

LG

GHP SUPER III

Gas Heat Pump (LPG/LNG), R410A 50/60Hz
6CGL0-02F(Replaces 6CGL0-02E)

TOTAL HVAC SOLUTION PROVIDER

ENGINEERING PRODUCT DATA BOOK

GHP SUPER III

General Information

Outdoor Units

Installation of Outdoor Units

Special Guide

GHP SUPER III


General Information


1. Model Line Up

2. Nomenclature

1. Model Line Up

■ Model Line up (LNG, LPG)

Model Names	GPUW160C*R	GPUW200C*R	GPUW250C*R	GPUW280C*R	GPUW300C*R	GPUW320C*R
Nominal Capacity (kW)	45.0	56.0	71.0	82.0	85.0	90.0
Chassis	UPC					
External Appearance						

Model Names	GP-W360C*R	GP-W400C*R	GP-W500C*R	GP-W560C*R	GP-W600C*R	GP-W640C*R
Nominal Capacity (kW)	101.0	112.0	142.0	164.0	170.0	180.0
Chassis	UPC + UPC					
External Appearance						

* Model Name (Rated Power) : G (50/60Hz) / 2 (60Hz)

2. Nomenclature

Model Name	GP	U	W	16	0	C	*	R
No.	1	2	3	4	5	6	7	8

No.	Signification
1	GHP System using R410A
2	Model type U : Single Unit - : Series Unit
3	Inverter Type and Cooling Only or Heat Pump W : Inverter and H/P
4	Total Cooling Capacity in Horse Power (HP) unit ex) 16 : 16HP, 20 : 20HP
5	Serial No.
6	Chassis Name C : UPC Chassis
7	Electrical Ratings 2 : 1Ø, 220V, 60Hz G : 1Ø, 220V, 50/60Hz
8	Using Gas R : General LPG / LNG, Engine Heat Recovery

2. Nomenclature

Outdoor Units

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1. Gas Usage Conditions

■ Gas Usage Conditions

Product Type			R	
Gas Type			LNG 13A	LPG
Gas main composition			CH ₄	C ₃ H ₈
Supply Pressure	Rated ~ Max.	kPa	2.0 ~ 2.5	2.3 ~ 3.3
Standard gas calorific value		kcal/Nm ³	9,600	24,179
		MJ/Nm ³	40.21	101.29

Note

Gas calorific value is the total (high) calorific value based on standard state (0°C, 1atm).

■ Gas Maximum Flow Volume

Model		16HP	20HP	25HP	28HP	30HP	32HP
Maximum Flow Volume (kW)	Cooling	37	44	56	69	72	76
	Heating	42	54	70	87	91	96

Note

The gas maximum flow volume is the quantity of gas consumed at maximum operation.

2. List of Functions

◆ Basic functions of Indoor Unit

Category	Function	GPUW160C*R, GPUW200C*R GPUW250C*R GPUW280C*R, GPUW300C*R, GPUW320C*R
Reliability	High pressure switch	O
	Low pressure switch	X
	Phase protection	O
	Restart delay (3-minutes)	O
	Self diagnosis	X
	Soft start	O
Convenience	Auto Restart	O
	Test function	O
	No Defrost operation cycle	O
Special Functions	Network Solution (LGAP)	O

* Model Name (Rated Power) : G (50/60Hz) / 2 (60Hz)

◆ Network solution Accessory List

Category	Accessory Name	Model Name	Description	GPUW160C2R, GPUW200C2R GPUW250C2R, GPUW280C2R GPUW300C2R, GPUW320C2R
Central Controller	AC EZ	CQCSZ250S0	Small type	O
	AC EZ touch	CACEZA000	Small / Touch type	O
	AC Smart IV	CACS4B000	Touch type	O
	AC Smart 5	CACS5A000	Touch type	O
	ACP IV	CACP4B000	-	O
	ACP 5	CACP5A000	-	O
	AC Manager IV	CACM4B000	Integrated	O
	AC Manager 5	PACM5A000	Integrated	O
Gateway	ODU PI485	PMNFP14A1	For 16-room (3 series)	X
	ACP BACnet	CQNFB17C0	-	O
	ACP Lonwork	PLNWKB000	-	O
	Cool/Heat Selector	PRDSBM	-	O
	Low Ambient Kit	PRVC2		X
ETC	PDI Stadnard	PPWRDB000	Power distributor 2port	O
	PDI Premium	PQNUD1S40	Power distributor 8port	O

Category	Accessory Name	Model Name	Description	GPUW160CGR, GPUW200CGR GPUW250CGR, GPUW280CGR GPUW300CGR, GPUW320CGR
Central Controller	AC EZ	PQCSZ250S0	Small type	O
	AC EZ touch	PACEZA000	Small / Touch type	O
	AC Smart IV	PACS4B000	Touch type	O
	AC Smart 5	PACS5A000	Touch type	O
	ACP IV	PACP4B000	-	O
	ACP 5	PACP5A000	-	O
	AC Manager IV	PACM4B000	Integrated	O
	AC Manager 5	PACM5A000	Integrated	O
Gateway	ODU PI485	PMNFP14A1	For 16-room (3 series)	X
	ACP BACnet	PQNFB17C0	-	O
	ACP Lonwork	PLNWKB000	-	O
	Cool/Heat Selector	PRDSBM	-	O
	Low Ambient Kit	PRVC2		X
ETC	PDI Stadnard	PPWRDB000	Power distributor 2port	O
	PDI Premium	PQNUD1S40	Power distributor 8port	O

Note

1. O : Applied, X : Not applied

Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field.

Accessory line-ups varies by region, so check your local catalogue or local sales material.

3. Specifications

Single Units

* Model Name (Rated Power) : G (50/60Hz) / 2 (60Hz)

Category			Independent Unit	GPUW160C*R	GPUW200C*R
			Combination Unit	-	-
Power Supply			V, Φ , Wire, Hz	220, 1, 2, 50/60 220, 1, 2, 60	220, 1, 2, 50/60 220, 1, 2, 60
Capacity	Cooling	Rated	kW	45.0	56.0
		Rated	kcal/h	38,700	48,160
	Heating	Rated	kW	50.0	63.0
		Rated	kcal/h	43,000	54,180
Power Input	Cooling	Rated	kW	2.1	2.1
	Heating	Rated	kW	1.2	1.2
Running current	Cooling	Rated	A	12.00	12.00
	Heating	Rated	A	6.60	6.60
Engine Starting Current		Max.	A	40.0	40.0
Efficiency (COP)	Cooling		-	1.36	1.43
	Heating		-	1.77	1.74
	Heat Recovery (DHW)		-	1.93	2.02
Gas	Type		-	LNG 13A / LPG	LNG 13A / LPG
	Supply Pressure	LNG 13A	kPa	2.0 ~ 2.5	2.0 ~ 2.5
		LPG	kPa	2.3 ~ 3.3	2.3 ~ 3.3
Fuel consumption	Cooling	Rated	kW	31.0	37.0
	Heating	Rated	kW	27.0	35.0
Casing Color			-	Morning Gray/Dawn Gray	
Compressor	Type		-	Scroll x 2	Scroll x 2
	Displacement		cc/Rev	120 + 120	120 + 120
	Oil type		-	FW68L	FW68L
	Oil Charge	Oil Separator	ℓ	6.4	6.4
		Compressor	ℓ	0.75 × 2	0.75 × 2
Crankcase Heater		-	40 x 2	40 x 2	
Gas Engine	Displacement		cc/Rev	2,607	2,607
	Speed		rev/min	900 ~2,300	900 ~2,300
	Output	Rated	kW	22.4	22.4
	Oil Charge		ℓ	38	38
	Starter motor		-	DC 2.2 kW	DC 2.2 kW
	Starter system		-	AC/DC switching type DC Starter	
Engine Coolant	Type		-	Ethylene glycol / Water	Ethylene glycol / Water
	Charged Volume		ℓ	28.5	28.5
	Density		% (V/V)	50	50
	Density-Freezing Temp.		℃	-35	-35
Coolant pump	Output	Rated	kW	0.165	0.165

Note

- Due to our policy of innovation some specifications may be changed without notification.
- Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Fuel Gas consumption is the total (high) calorific value.
- Power input and fuel consumption can different by pipe length, elevation difference, and using condition during operation.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
Therefore, these values can be increased owing to ambient conditions during operation.
- Capacities are based on the following conditions :
 - *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
- Using temperature :
 - Cooling : Outdoor temperature -10~48°C (14~118°F) DB
 - Heating : Outdoor temperature -20~24°C (-4~75°F) DB
- Refrigerant pipe diameter is basically Gas(28.58mm), Liquid(15.88mm), but select appropriate diameter using above table.
- Hot water supply capacity is based on cooling standard conditions and 100% capacity of indoor unit.
- Hot water supply capacity is dependent upon the operating conditions.
- Hot water supply is only available in the cooling mode.
- Hot water circulation system should be using antifreeze.

3. Specifications

Category			Independent Unit	GPUW160C*R	GPUW200C*R
			Combination Unit	-	-
Domestic Hot Water (DHW)	Capacity	Rated	kW	19.0	23.0
	Outlet Temperature	Max.	°C	75.0	75.0
	Flow rate		ℓ/min	65.0	65.0
	Pressure Drop		kPa	28.5	28.5
	Operating Pressure		kPa	700.0	700.0
Fan	Type		-	Propeller fan	Propeller fan
	Air Flow rate		m ³ /min	430	430
	Motor Output x Number		kW x No.	1.5 x 2	1.5 x 2
Air Intake			-	Front / Back / Side	Front / Back / Side
Air Outlet			-	Top	Top
Piping Connections	Refrigerant pipes Gas		ø, mm	28.58	28.58
	Refrigerant pipes Liquid		ø, mm	15.88	15.88
	Fuel Gas Pipes		inch	R 3/4 (Male)	R 3/4 (Male)
	Exhaust drain pipes		ø, mm	Ø 31.2	Ø 31.2
Drain heater			W	25.0	25.0
Dimensions	Product	W × H × D	mm	1,800 × 2,180 × 960	1,800 × 2,180 × 960
	Packing	W × H × D	mm	1,830 × 2,360 × 1,090	1,830 × 2,360 × 1,090
Weight	Product		kg	920	920
	Packing		kg	935	935
Sound pressure level		Rated	dB(A)	60	60
Refrigerant	Type		-	R410A	R410A
	Charged Amount		kg	18.0	18.0
	Control		-	Electronic Expansion Valve	
Protection Devies	High pressure protection		-	High pressure sensor / High pressure switch	
	Compressor/Fan		-	Over-heat protection / Fan driver overload protector	
	Inverter		-	Over-heat protection / Over-current protection	
Communication Line (VCTF - SB)			mm ² x cores	1.0~1.5 × 2	1.0~1.5 × 2
Number of maximum connected indoor units			Unit	29	36

Note

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- Fuel Gas consumption is the total (high) calorific value.
- Power input and fuel consumption can different by pipe length, elevation diffrence, and using condition during operation.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
Therefore, these values can be increased owing to ambient conditions during operation.
- Capacities are based on the following conditions :
 - *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
- Using temperature :
 - Cooling : Outdoor temperature -10~48°C (14~118°F) DB
 - Heating : Outdoor temperature -20~24°C (-4~75°F) DB
- Refrigerant pipe diameter is basically Gas(28.58mm), Liquid(15.88mm), but select appropriate diameter using above table.
- Hot water supply capacity is based on cooling standard conditions and 100% capacity of indoor unit.
- Hot water supply capacity is dependent upon the operating conditions.
- Hot water supply is only available in the cooling mode.
- Hot water circulation system should be using antifreeze.

3. Specifications

* Model Name (Rated Power) : G (50/60Hz) / 2 (60Hz)

Category			Independent Unit	GPUW250C*R	GPUW280C*R
			Combination Unit	-	-
Power Supply			V, Φ , Wire, Hz	220, 1, 2, 50/60 220, 1, 2, 60	220, 1, 2, 50/60 220, 1, 2, 60
Capacity	Cooling	Rated	kW	71.0	82.0
		Rated	kcal/h	61,060	70,520
	Heating	Rated	kW	80.0	90.0
		Rated	kcal/h	68,800	77,400
Power Input	Cooling	Rated	kW	2.1	2.1
	Heating	Rated	kW	1.2	1.2
Running current	Cooling	Rated	A	12.00	12.00
	Heating	Rated	A	6.60	6.60
Engine Starting Current		Max.	A	40.0	40.0
Efficiency (COP)	Cooling		-	1.45	1.46
	Heating		-	1.73	1.63
	Heat Recovery (DHW)		-	2.06	2.02
Gas	Type		-	LNG 13A / LPG	LNG 13A / LPG
	Supply Pressure	LNG 13A	kPa	2.0 ~ 2.5	2.0 ~ 2.5
		LPG	kPa	2.3 ~ 3.3	2.3 ~ 3.3
Fuel consumption	Cooling	Rated	kW	47.0	53.9
	Heating	Rated	kW	45.0	54.0
Casing Color			-	Morning Gray/Dawn Gray	
Compressor	Type		-	Scroll x 2	Scroll x 2
	Displacement		cc/Rev	120 + 120	120 + 120
	Oil type		-	FW68L	FW68L
	Oil Charge	Oil Separator	ℓ	6.4	6.4
		Compressor	ℓ	0.75 × 2	0.75 × 2
Crankcase Heater		-	40 × 2	40 × 2	
Gas Engine	Displacement		cc/Rev	2,607	2,607
	Speed		rev/min	900 ~ 2,300	900 ~ 2,300
	Output	Rated	kW	22.4	22.4
	Oil Charge		ℓ	38	38
	Starter motor		-	DC 2.2 kW	DC 2.2 kW
	Starter system		-	AC/DC switching type DC Starter	
Engine Coolant	Type		-	Ethylene glycol / Water	Ethylene glycol / Water
	Charged Volume		ℓ	28.5	28.5
	Density		% (V/V)	50	50
	Density-Freezing Temp.		℃	-35	-35
Coolant pump	Output	Rated	kW	0.165	0.165

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Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
Therefore, these values can be increased owing to ambient conditions during operation.
- Capacities are based on the following conditions :
 - *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
- Using temperature :
 - Cooling : Outdoor temperature -10~48°C (14~118°F) DB
 - Heating : Outdoor temperature -20~24°C (-4~75°F) DB
- Refrigerant pipe diameter is basically Gas(28.58mm), Liquid(15.88mm), but select appropriate diameter using above table.
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- Hot water supply is only available in the cooling mode.
- Hot water circulation system should be using antifreeze.

3. Specifications

Category			Independent Unit	GPUW250C*R	GPUW280C*R
			Combination Unit	-	-
Domestic Hot Water (DHW)	Capacity	Rated	kW	30.0	31.0
	Outlet Temperature	Max.	°C	75.0	75.0
	Flow rate		ℓ/min	65.0	65.0
	Pressure Drop		kPa	28.5	28.5
	Operating Pressure		kPa	700.0	700.0
Fan	Type		-	Propeller fan	Propeller fan
	Air Flow rate		m ³ /min	430	430
	Motor Output x Number		kW x No.	1.5 x 2	1.5 x 2
Air Intake			-	Front / Back / Side	Front / Back / Side
Air Outlet			-	Top	Top
Piping Connections	Refrigerant pipes Gas		ø, mm	31.8	34.9
	Refrigerant pipes Liquid		ø, mm	15.88	19.05
	Fuel Gas Pipes		inch	R 3/4 (Male)	R 3/4 (Male)
	Exhaust drain pipes		ø, mm	Ø 31.2	Ø 31.2
Drain heater			W	25.0	25.0
Dimensions	Product	W × H × D	mm	1,800 × 2,180 × 960	1,800 × 2,180 × 960
	Packing	W × H × D	mm	1,830 × 2,360 × 1,090	1,830 × 2,360 × 1,090
Weight	Product		kg	920	920
	Packing		kg	935	935
Sound pressure level		Rated	dB(A)	60	60
Refrigerant	Type		-	R410A	R410A
	Charged Amount		kg	18.0	18.0
	Control		-	Electronic Expansion Valve	
Protection Devies	High pressure protection		-	High pressure sensor / High pressure switch	
	Compressor/Fan		-	Over-heat protection / Fan driver overload protector	
	Inverter		-	Over-heat protection / Over-current protection	
Communication Line (VCTF - SB)			mm ² x cores	1.0~1.5 × 2	1.0~1.5 × 2
Number of maximum connected indoor units			Unit	46	53

Note

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- Fuel Gas consumption is the total (high) calorific value.
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Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
Therefore, these values can be increased owing to ambient conditions during operation.
- Capacities are based on the following conditions :
 - *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
- Using temperature :
 - Cooling : Outdoor temperature -10~48°C (14~118°F) DB
 - Heating : Outdoor temperature -20~24°C (-4~75°F) DB
- Refrigerant pipe diameter is basically Gas(28.58mm), Liquid(15.88mm), but select appropriate diameter using above table.
- Hot water supply capacity is based on cooling standard conditions and 100% capacity of indoor unit.
- Hot water supply capacity is dependent upon the operating conditions.
- Hot water supply is only available in the cooling mode.
- Hot water circulation system should be using antifreeze.

3. Specifications

* Model Name (Rated Power) : G (50/60Hz) / 2 (60Hz)

Category			Independent Unit	GPUW300C*R	GPUW320C*R
			Combination Unit	-	-
Power Supply			V, Φ , Wire, Hz	220, 1, 2, 50/60 220, 1, 2, 60	220, 1, 2, 50/60 220, 1, 2, 60
Capacity	Cooling	Rated	kW	85.0	90.0
		Rated	kcal/h	73,100	77,400
	Heating	Rated	kW	95.0	100.0
		Rated	kcal/h	81,700	86,000
Power Input	Cooling	Rated	kW	2.1	2.1
	Heating	Rated	kW	1.2	1.2
Running current	Cooling	Rated	A	12.00	12.00
	Heating	Rated	A	6.60	6.60
Engine Starting Current		Max.	A	40.0	40.0
Efficiency (COP)	Cooling		-	1.44	1.45
	Heating		-	1.62	1.61
	Heat Recovery (DHW)		-	2.00	2.00
Gas	Type		-	LNG 13A / LPG	LNG 13A / LPG
	Supply Pressure	LNG 13A	kPa	2.0 ~ 2.5	2.0 ~ 2.5
		LPG	kPa	2.3 ~ 3.3	2.3 ~ 3.3
Fuel consumption	Cooling	Rated	kW	56.8	60.0
	Heating	Rated	kW	57.3	61.0
Casing Color			-	Morning Gray/Dawn Gray	
Compressor	Type		-	Scroll x 2	Scroll x 2
	Displacement		cc/Rev	120 + 120	120 + 120
	Oil type		-	FW68L	FW68L
	Oil Charge	Oil Separator	ℓ	6.4	6.4
		Compressor	ℓ	0.75 × 2	0.75 × 2
Crankcase Heater		-	40 x 2	40 x 2	
Gas Engine	Displacement		cc/Rev	2,607	2,607
	Speed		rev/min	900 ~2,300	900 ~2,300
	Output	Rated	kW	22.4	22.4
	Oil Charge		ℓ	38	38
	Starter motor		-	DC 2.2 kW	DC 2.2 kW
	Starter system		-	AC/DC switching type DC Starter	
Engine Coolant	Type		-	Ethylene glycol / Water	Ethylene glycol / Water
	Charged Volume		ℓ	28.5	28.5
	Density		% (V/V)	50	50
	Density-Freezing Temp.		℃	-35	-35
Coolant pump	Output	Rated	kW	0.165	0.165

Note

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Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
Therefore, these values can be increased owing to ambient conditions during operation.
6. Capacities are based on the following conditions :
 - *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
7. Using temperature :
 - Cooling : Outdoor temperature -10~48°C (14~118°F) DB
 - Heating : Outdoor temperature -20~24°C (-4~75°F) DB
8. Refrigerant pipe diameter is basically Gas(28.58mm), Liquid(15.88mm), but select appropriate diameter using above table.
9. Hot water supply capacity is based on cooling standard conditions and 100% capacity of indoor unit.
10. Hot water supply capacity is dependent upon the operating conditions.
11. Hot water supply is only available in the cooling mode.
12. Hot water circulation system should be using antifreeze.

3. Specifications

Category			Independent Unit	GPUW300C*R	GPUW320C*R
			Combination Unit	-	-
Domestic Hot Water (DHW)	Capacity	Rated	kW	33.0	34.0
	Outlet Temperature	Max.	°C	75.0	75.0
	Flow rate		ℓ/min	65.0	65.0
	Pressure Drop		kPa	28.5	28.5
	Operating Pressure		kPa	700.0	700.0
Fan	Type		-	Propeller fan	Propeller fan
	Air Flow rate		m ³ /min	430	430
	Motor Output x Number		kW x No.	1.5 x 2	1.5 x 2
Air Intake			-	Front / Back / Side	Front / Back / Side
Air Outlet			-	Top	Top
Piping Connections	Refrigerant pipes Gas		ø, mm	34.9	34.9
	Refrigerant pipes Liquid		ø, mm	19.05	19.05
	Fuel Gas Pipes		inch	R 3/4 (Male)	R 3/4 (Male)
	Exhaust drain pipes		ø, mm	Ø 31.2	Ø 31.2
Drain heater			W	25.0	25.0
Dimensions	Product	W × H × D	mm	1,800 × 2,180 × 960	1,800 × 2,180 × 960
	Packing	W × H × D	mm	1,830 × 2,360 × 1,090	1,830 × 2,360 × 1,090
Weight	Product		kg	920	920
	Packing		kg	935	935
Sound pressure level		Rated	dB(A)	60	60
Refrigerant	Type		-	R410A	R410A
	Charged Amount		kg	18.0	18.0
	Control		-	Electronic Expansion Valve	
Protection Devies	High pressure protection		-	High pressure sensor / High pressure switch	
	Compressor/Fan		-	Over-heat protection / Fan driver overload protector	
	Inverter		-	Over-heat protection / Over-current protection	
Communication Line (VCTF - SB)			mm ² x cores	1.0~1.5 × 2	1.0~1.5 × 2
Number of maximum connected indoor units			Unit	55	58

Note

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- Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Fuel Gas consumption is the total (high) calorific value.
- Power input and fuel consumption can different by pipe length, elevation difference, and using condition during operation.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
Therefore, these values can be increased owing to ambient conditions during operation.
- Capacities are based on the following conditions :
 - *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
- Using temperature :
 - Cooling : Outdoor temperature -10~48°C (14~118°F) DB
 - Heating : Outdoor temperature -20~24°C (-4~75°F) DB
- Refrigerant pipe diameter is basically Gas(28.58mm), Liquid(15.88mm), but select appropriate diameter using above table.
- Hot water supply capacity is based on cooling standard conditions and 100% capacity of indoor unit.
- Hot water supply capacity is dependent upon the operating conditions.
- Hot water supply is only available in the cooling mode.
- Hot water circulation system should be using antifreeze.

3. Specifications

Series Units

* Model Name (Rated Power) : G (50/60Hz) / 2 (60Hz)

Category			Independent Unit	GP-W360C*R	GP-W400C*R
			Combination Unit	GPUW160C*R GPUW200C*R	GPUW200C*R GPUW200C*R
Power Supply			V, Φ, Wire, Hz	220, 1, 2, 50/60 220, 1, 2, 60	220, 1, 2, 50/60 220, 1, 2, 60
Capacity	Cooling	Rated	kW	101.0	112.0
		Rated	kcal/h	86,860	96,320
	Heating	Rated	kW	113.0	126.0
		Rated	kcal/h	97,180	108,360
Power Input	Cooling	Rated	kW	4.2	4.2
	Heating	Rated	kW	2.4	2.4
Running current	Cooling	Rated	A	24.00	24.00
	Heating	Rated	A	13.20	13.20
Engine Starting Current		Max.	A	40.0 x 2	40.0 x 2
Efficiency (COP)	Cooling		-	1.40	1.43
	Heating		-	1.75	1.74
	Heat Recovery (DHW)		-	1.98	2.02
Gas	Type		-	LNG 13A / LPG	LNG 13A / LPG
	Supply Pressure	LNG 13A	kPa	2.0 ~ 2.5	2.0 ~ 2.5
		LPG	kPa	2.3 ~ 3.3	2.3 ~ 3.3
Fuel consumption	Cooling	Rated	kW	68.0	74.0
	Heating	Rated	kW	62.0	70.0
Casing Color			-	Morning Gray/Dawn Gray	
Compressor	Type		-	(Scroll x 2) x 2	(Scroll x 2) x 2
	Displacement		cc/Rev	120 + 120	120 + 120
	Oil type		-	FW68L	FW68L
	Oil Charge	Oil Separator	ℓ	6.4 x 2	6.4 x 2
		Compressor	ℓ	(0.75 x 2) x 2	(0.75 x 2) x 2
	Crankcase Heater		-	(40 x 2) x 2	(40 x 2) x 2
Gas Engine	Displacement		cc/Rev	2,607	2,607
	Speed		rev/min	900 ~2,300	900 ~2,300
	Output	Rated	kW	22.4	22.4
	Oil Charge		ℓ	38 x 2	38 x 2
	Starter motor		-	DC 2.2 kW	DC 2.2 kW
	Starter system		-	AC/DC switching type DC Starter	
Engine Coolant	Type		-	Ethylene glycol / Water	Ethylene glycol / Water
	Charged Volume		ℓ	28.5 x 2	28.5 x 2
	Density		% (V/V)	50	50
	Density-Freezing Temp.		℃	-35	-35
Coolant pump	Output	Rated	kW	0.165 x 2	0.165 x 2

Note

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- Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Fuel Gas consumption is the total (high) calorific value.
- Power input and fuel consumption can different by pipe length, elevation difference, and using condition during operation.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
Therefore, these values can be increased owing to ambient conditions during operation.
- Capacities are based on the following conditions :
 - *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
- Using temperature :
 - Cooling : Outdoor temperature -10~48°C (14~118°F) DB
 - Heating : Outdoor temperature -20~24°C (-4~75°F) DB
- Refrigerant pipe diameter is basically Gas(28.58mm), Liquid(15.88mm), but select appropriate diameter using above table.
- Hot water supply capacity is based on cooling standard conditions and 100% capacity of indoor unit.
- Hot water supply capacity is dependent upon the operating conditions.
- Hot water supply is only available in the cooling mode.
- Hot water circulation system should be using antifreeze.

3. Specifications

Category			Independent Unit	GP-W360C*R	GP-W400C*R
			Combination Unit	GPUW160C*R GPUW200C*R	GPUW200C*R GPUW200C*R
Domestic Hot Water (DHW)	Capacity	Rated	kW	42.0	46.0
	Outlet Temperature	Max.	°C	75.0	75.0
	Flow rate		ℓ/min	130.0	130.0
	Pressure Drop		kPa	28.5	28.5
	Operating Pressure		kPa	700.0	700.0
Fan	Type		-	Propeller fan	Propeller fan
	Air Flow rate		m ³ /min	430 x 2	430 x 2
	Motor Output x Number		kW x No.	(1.5 x 2) x 2	(1.5 x 2) x 2
Air Intake			-	Front / Back / Side	Front / Back / Side
Air Outlet			-	Top	Top
Piping Connections	Refrigerant pipes Gas		ø, mm	34.9	41.3
	Refrigerant pipes Liquid		ø, mm	19.05	19.05
	Fuel Gas Pipes		inch	R 3/4 (Male)	R 3/4 (Male)
	Exhaust drain pipes		ø, mm	Ø 31.2 x 2	Ø 31.2 x 2
Drain heater			W	25.0	25.0
Dimensions	Product	W x H x D	mm	(1,800 x 2,180 x 960) x 2	(1,800 x 2,180 x 960) x 2
	Packing	W x H x D	mm	(1,830 x 2,360 x 1,090) x 2	(1,830 x 2,360 x 1,090) x 2
Weight	Product		kg	920 x 2	920 x 2
	Packing		kg	935 x 2	935 x 2
Sound pressure level		Rated	dB(A)	60 x 2	60 x 2
Refrigerant	Type		-	R410A	R410A
	Charged Amount		kg	18.0 x 2	18.0 x 2
	Control		-	Electronic Expansion Valve	
Protection Devices	High pressure protection		-	High pressure sensor / High pressure switch	
	Compressor/Fan		-	Over-heat protection / Fan driver overload protector	
	Inverter		-	Over-heat protection / Over-current protection	
Communication Line (VCTF - SB)			mm ² x cores	1.0~1.5 x 2	1.0~1.5 x 2
Number of maximum connected indoor units			Unit	64	64

Note

- Due to our policy of innovation some specifications may be changed without notification.
- Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Fuel Gas consumption is the total (high) calorific value.
- Power input and fuel consumption can different by pipe length, elevation difference, and using condition during operation.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
Therefore, these values can be increased owing to ambient conditions during operation.
- Capacities are based on the following conditions :
 - *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
- Using temperature :
 - Cooling : Outdoor temperature -10~48°C (14~118°F) DB
 - Heating : Outdoor temperature -20~24°C (-4~75°F) DB
- Refrigerant pipe diameter is basically Gas(28.58mm), Liquid(15.88mm), but select appropriate diameter using above table.
- Hot water supply capacity is based on cooling standard conditions and 100% capacity of indoor unit.
- Hot water supply capacity is dependent upon the operating conditions.
- Hot water supply is only available in the cooling mode.
- Hot water circulation system should be using antifreeze.

3. Specifications

* Model Name (Rated Power) : G (50/60Hz) / 2 (60Hz)

Category			Independent Unit	GP-W500C*R	GP-W560C*R
			Combination Unit	GPUW250C*R GPUW250C*R	GPUW280C*R GPUW280C*R
Power Supply			V, Φ, Wire, Hz	220, 1, 2, 50/60	220, 1, 2, 50/60
				220, 1, 2, 60	220, 1, 2, 60
Capacity	Cooling	Rated	kW	142.0	164.0
		Rated	kcal/h	122,120	141,040
	Heating	Rated	kW	160.0	180.0
		Rated	kcal/h	137,600	154,800
Power Input		Cooling	Rated kW	4.2	4.2
		Heating	Rated kW	2.4	2.4
Running current		Cooling	Rated A	24.00	24.00
		Heating	Rated A	13.20	13.20
Engine Starting Current		Max.	A	40.0 x 2	40.0 x 2
Efficiency (COP)		Cooling	-	1.45	1.46
		Heating	-	1.73	1.63
		Heat Recovery (DHW)	-	2.06	2.02
Gas		Type	-	LNG 13A / LPG	LNG 13A / LPG
		Supply Pressure	LNG 13A	kPa	2.0 ~ 2.5
			LPG	kPa	2.3 ~ 3.3
Fuel consumption		Cooling	Rated kW	94.0	107.8
		Heating	Rated kW	90.0	108.0
Casing Color			-	Morning Gray/Dawn Gray	
Compressor		Type	-	(Scroll x 2) x 2	(Scroll x 2) x 2
		Displacement	cc/Rev	120 + 120	120 + 120
		Oil type	-	FW68L	FW68L
		Oil Charge	Oil Separator	ℓ	6.4 x 2
			Compressor	ℓ	(0.75 x 2) x 2
		Crankcase Heater	-	(40 x 2) x 2	(40 x 2) x 2
Gas Engine		Displacement	cc/Rev	2,607	2,607
		Speed	rev/min	900 ~ 2,300	900 ~ 2,300
		Output	Rated kW	22.4	22.4
		Oil Charge	ℓ	38 x 2	38 x 2
		Starter motor	-	DC 2.2 kW	DC 2.2 kW
		Starter system	-	AC/DC switching type DC Starter	
Engine Coolant		Type	-	Ethylene glycol / Water	Ethylene glycol / Water
		Charged Volume	ℓ	28.5 x 2	28.5 x 2
		Density	% (V/V)	50	50
		Density-Freezing Temp.	℃	-35	-35
Coolant pump		Output	Rated kW	0.165 x 2	0.165 x 2

Note

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2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Fuel Gas consumption is the total (high) calorific value.
4. Power input and fuel consumption can different by pipe length, elevation difference, and using condition during operation.
5. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
Therefore, these values can be increased owing to ambient conditions during operation.
6. Capacities are based on the following conditions :
 - *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
7. Using temperature :
 - Cooling : Outdoor temperature -10~48°C (14~118°F) DB
 - Heating : Outdoor temperature -20~24°C (-4~75°F) DB
8. Refrigerant pipe diameter is basically Gas(28.58mm), Liquid(15.88mm), but select appropriate diameter using above table.
9. Hot water supply capacity is based on cooling standard conditions and 100% capacity of indoor unit.
10. Hot water supply capacity is dependent upon the operating conditions.
11. Hot water supply is only available in the cooling mode.
12. Hot water circulation system should be using antifreeze.

3. Specifications

Category		Independent Unit		GP-W500C*R	GP-W560C*R
		Combination Unit		GPUW250C*R GPUW250C*R	GPUW280C*R GPUW280C*R
Domestic Hot Water (DHW)	Capacity	Rated	kW	60.0	62.0
	Outlet Temperature	Max.	°C	75.0	75.0
	Flow rate		ℓ/min	130.0	130.0
	Pressure Drop		kPa	28.5	28.5
	Operating Pressure		kPa	700.0	700.0
Fan	Type		-	Propeller fan	Propeller fan
	Air Flow rate		m ³ /min	430 x 2	430 x 2
	Motor Output x Number		kW x No.	(1.5 x 2) x 2	(1.5 x 2) x 2
Air Intake			-	Front / Back / Side	Front / Back / Side
Air Outlet			-	Top	Top
Piping Connections	Refrigerant pipes Gas		ø, mm	41.3	41.3
	Refrigerant pipes Liquid		ø, mm	19.05	19.05
	Fuel Gas Pipes		inch	R 3/4 (Male)	R 3/4 (Male)
	Exhaust drain pipes		ø, mm	Ø 31.2 x 2	Ø 31.2 x 2
Drain heater			W	25.0	25.0
Dimensions	Product	W x H x D	mm	(1,800 x 2,180 x 960) x 2	(1,800 x 2,180 x 960) x 2
	Packing	W x H x D	mm	(1,830 x 2,360 x 1,090) x 2	(1,830 x 2,360 x 1,090) x 2
Weight	Product		kg	920 x 2	920 x 2
	Packing		kg	935 x 2	935 x 2
Sound pressure level		Rated	dB(A)	60 x 2	60 x 2
Refrigerant	Type		-	R410A	R410A
	Charged Amount		kg	18.0 x 2	18.0 x 2
	Control		-	Electronic Expansion Valve	
Protection Devies	High pressure protection		-	High pressure sensor / High pressure switch	
	Compressor/Fan		-	Over-heat protection / Fan driver overload protector	
	Inverter		-	Over-heat protection / Over-current protection	
Communication Line (VCTF - SB)			mm ² x cores	1.0~1.5 x 2	1.0~1.5 x 2
Number of maximum connected indoor units			Unit	64	64

Note

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- Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Fuel Gas consumption is the total (high) calorific value.
- Power input and fuel consumption can differ by pipe length, elevation difference, and using condition during operation.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
Therefore, these values can be increased owing to ambient conditions during operation.
- Capacities are based on the following conditions :
 - *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
- Using temperature :
 - Cooling : Outdoor temperature -10~48°C (14~118°F) DB
 - Heating : Outdoor temperature -20~24°C (-4~75°F) DB
- Refrigerant pipe diameter is basically Gas(28.58mm), Liquid(15.88mm), but select appropriate diameter using above table.
- Hot water supply capacity is based on cooling standard conditions and 100% capacity of indoor unit.
- Hot water supply capacity is dependent upon the operating conditions.
- Hot water supply is only available in the cooling mode.
- Hot water circulation system should be using antifreeze.

3. Specifications

* Model Name (Rated Power) : G (50/60Hz) / 2 (60Hz)

Category			Independent Unit	GP-W600C*R	GP-W640C*R
			Combination Unit	GPUW300C*R GPUW300C*R	GPUW320C*R GPUW320C*R
Power Supply			V, Φ, Wire, Hz	220, 1, 2, 50/60	220, 1, 2, 50/60
				220, 1, 2, 60	220, 1, 2, 60
Capacity	Cooling	Rated	kW	170.0	180.0
		Rated	kcal/h	146,200	154,800
	Heating	Rated	kW	190.0	200.0
		Rated	kcal/h	163,400	172,000
Power Input		Cooling	Rated kW	4.2	4.2
		Heating	Rated kW	2.4	2.4
Running current		Cooling	Rated A	24.00	24.00
		Heating	Rated A	13.20	13.20
Engine Starting Current		Max.	A	40.0 x 2	40.0 x 2
Efficiency (COP)		Cooling	-	1.44	1.45
		Heating	-	1.62	1.61
		Heat Recovery (DHW)	-	2.00	2.00
Gas		Type	-	LNG 13A / LPG	LNG 13A / LPG
		Supply Pressure	LNG 13A	kPa	2.0 ~ 2.5
			LPG	kPa	2.3 ~ 3.3
Fuel consumption		Cooling	Rated kW	113.6	120.0
		Heating	Rated kW	114.6	122.0
Casing Color			-	Morning Gray/Dawn Gray	
Compressor		Type	-	(Scroll x 2) x 2	(Scroll x 2) x 2
		Displacement	cc/Rev	120 + 120	120 + 120
		Oil type	-	FW68L	FW68L
		Oil Charge	Oil Separator	ℓ	6.4 x 2
			Compressor	ℓ	(0.75 x 2) x 2
		Crankcase Heater	-	(40 x 2) x 2	(40 x 2) x 2
Gas Engine		Displacement	cc/Rev	2,607	2,607
		Speed	rev/min	900 ~ 2,300	900 ~ 2,300
		Output	Rated kW	22.4	22.4
		Oil Charge	ℓ	38 x 2	38 x 2
		Starter motor	-	DC 2.2 kW	DC 2.2 kW
		Starter system	-	AC/DC switching type DC Starter	
Engine Coolant		Type	-	Ethylene glycol / Water	Ethylene glycol / Water
		Charged Volume	ℓ	28.5 x 2	28.5 x 2
		Density	% (V/V)	50	50
		Density-Freezing Temp.	℃	-35	-35
Coolant pump	Output	Rated	kW	0.165 x 2	0.165 x 2

Note

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3. Fuel Gas consumption is the total (high) calorific value.
4. Power input and fuel consumption can different by pipe length, elevation difference, and using condition during operation.
5. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
Therefore, these values can be increased owing to ambient conditions during operation.
6. Capacities are based on the following conditions :
 - *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
7. Using temperature :
 - Cooling : Outdoor temperature -10~48°C (14~118°F) DB
 - Heating : Outdoor temperature -20~24°C (-4~75°F) DB
8. Refrigerant pipe diameter is basically Gas(28.58mm), Liquid(15.88mm), but select appropriate diameter using above table.
9. Hot water supply capacity is based on cooling standard conditions and 100% capacity of indoor unit.
10. Hot water supply capacity is dependent upon the operating conditions.
11. Hot water supply is only available in the cooling mode.
12. Hot water circulation system should be using antifreeze.

3. Specifications

Category			Independent Unit	GP-W600C*R	GP-W640C*R
			Combination Unit	GPUW300C*R GPUW300C*R	GPUW320C*R GPUW320C*R
Domestic Hot Water (DHW)	Capacity	Rated	kW	66.0	68.0
	Outlet Temperature	Max.	°C	75.0	75.0
	Flow rate		ℓ/min	130.0	130.0
	Pressure Drop		kPa	28.5	28.5
	Operating Pressure		kPa	700.0	700.0
Fan	Type		-	Propeller fan	Propeller fan
	Air Flow rate		m ³ /min	430 x 2	430 x 2
	Motor Output x Number		kW x No.	(1.5 x 2) x 2	(1.5 x 2) x 2
Air Intake			-	Front / Back / Side	Front / Back / Side
Air Outlet			-	Top	Top
Piping Connections	Refrigerant pipes Gas		ø, mm	41.3	44.5
	Refrigerant pipes Liquid		ø, mm	19.05	22.2
	Fuel Gas Pipes		inch	R 3/4 (Male)	R 3/4 (Male)
	Exhaust drain pipes		ø, mm	Ø 31.2 x 2	Ø 31.2 x 2
Drain heater			W	25.0	25.0
Dimensions	Product	W × H × D	mm	(1,800 x 2,180 × 960) x 2	(1,800 x 2,180 × 960) x 2
	Packing	W × H × D	mm	(1,830 x 2,360 × 1,090) x 2	(1,830 x 2,360 × 1,090) x 2
Weight	Product		kg	920 x 2	920 x 2
	Packing		kg	935 x 2	935 x 2
Sound pressure level		Rated	dB(A)	60 x 2	60 x 2
Refrigerant	Type		-	R410A	R410A
	Charged Amount		kg	18.0 x 2	18.0 x 2
	Control		-	Electronic Expansion Valve	
Protection Devices	High pressure protection		-	High pressure sensor / High pressure switch	
	Compressor/Fan		-	Over-heat protection / Fan driver overload protector	
	Inverter		-	Over-heat protection / Over-current protection	
Communication Line (VCTF - SB)			mm ² x cores	1.0~1.5 x 2	1.0~1.5 x 2
Number of maximum connected indoor units			Unit	64	64

Note

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- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
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Therefore, these values can be increased owing to ambient conditions during operation.
- Capacities are based on the following conditions :
 - *Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - *Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
- Using temperature :
 - Cooling : Outdoor temperature -10~48°C (14~118°F) DB
 - Heating : Outdoor temperature -20~24°C (-4~75°F) DB
- Refrigerant pipe diameter is basically Gas(28.58mm), Liquid(15.88mm), but select appropriate diameter using above table.
- Hot water supply capacity is based on cooling standard conditions and 100% capacity of indoor unit.
- Hot water supply capacity is dependent upon the operating conditions.
- Hot water supply is only available in the cooling mode.
- Hot water circulation system should be using antifreeze.

4. Dimensions

◆ 16 / 20 / 25 / 28 / 30 / 32 HP

[Unit: mm]

3D view

Exhaust Gas Drain Hose

Access for Fuel Gas (R3/4 male bolt)

Power / Transmission Cable

Gas / Liquid Pipe

Anti - Vibration Pad

Rubber Pad

Foundation

M2 Foundation Bolt

Anti - Vibration Pad

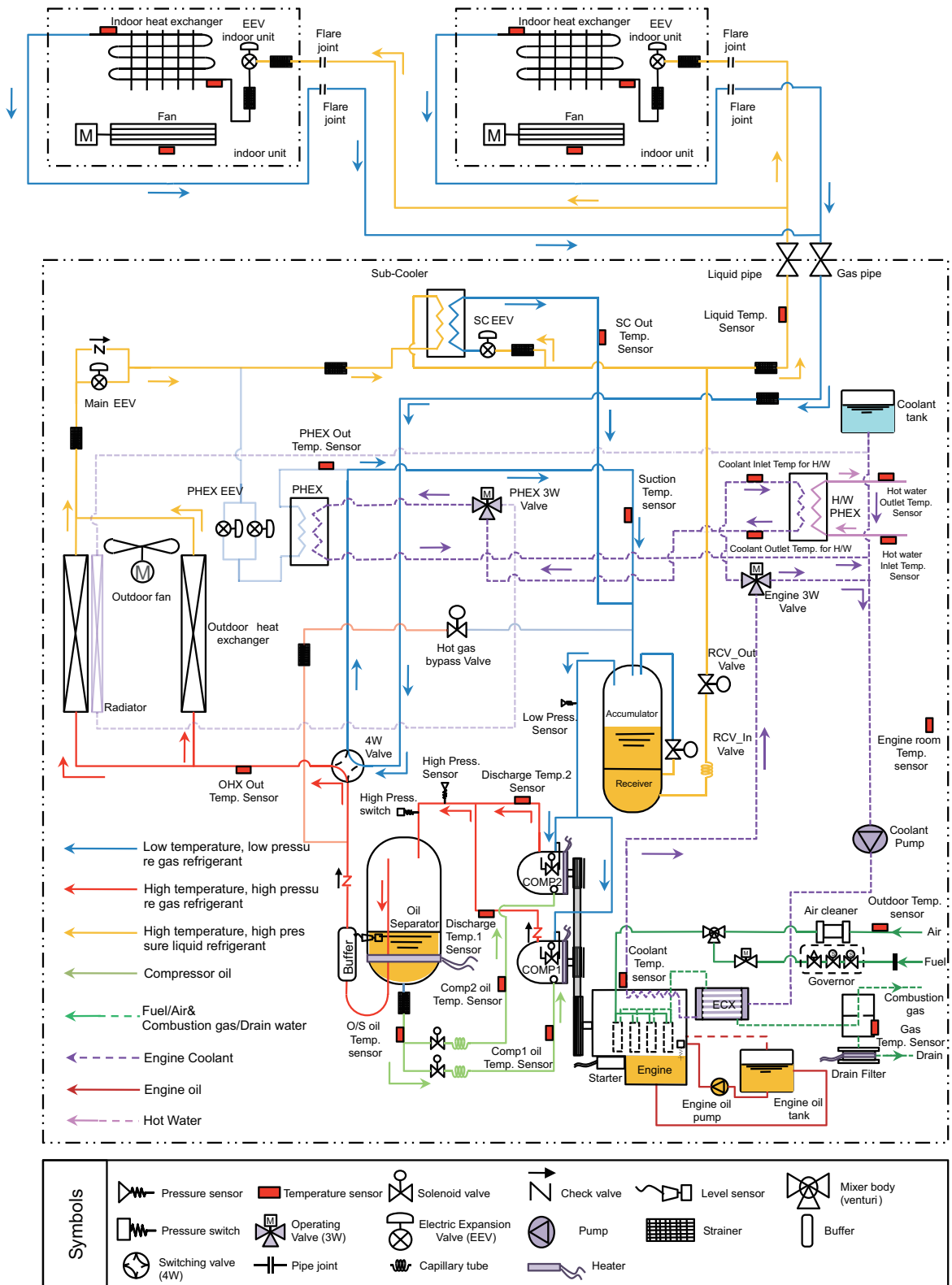
Unit : mm

Model	Installation Type			Unit : mm		
	A	B	D	E	F	G
GP***C**	Ground Installation	Anti - Vibration Stand X	More than 968	1,030	770	1,450
	Recept Installation	Anti - Vibration Stand O	More than 1,900	1,590	1,134	1,610
			More than 2,000	1,590	1,134	1,610

No.	Part Name	Description
7	Exhaust Gas Drain Hose	∅ 36
6	Radiator Cover	-
5	Air Filter Cover	∅ 160
4	Access for Fuel gas	(R3/4 male bolt)
3	C/Box Cover	-
2	Power / Transmission	4-∅ 14
1	Gas/Liquid Pipe	-

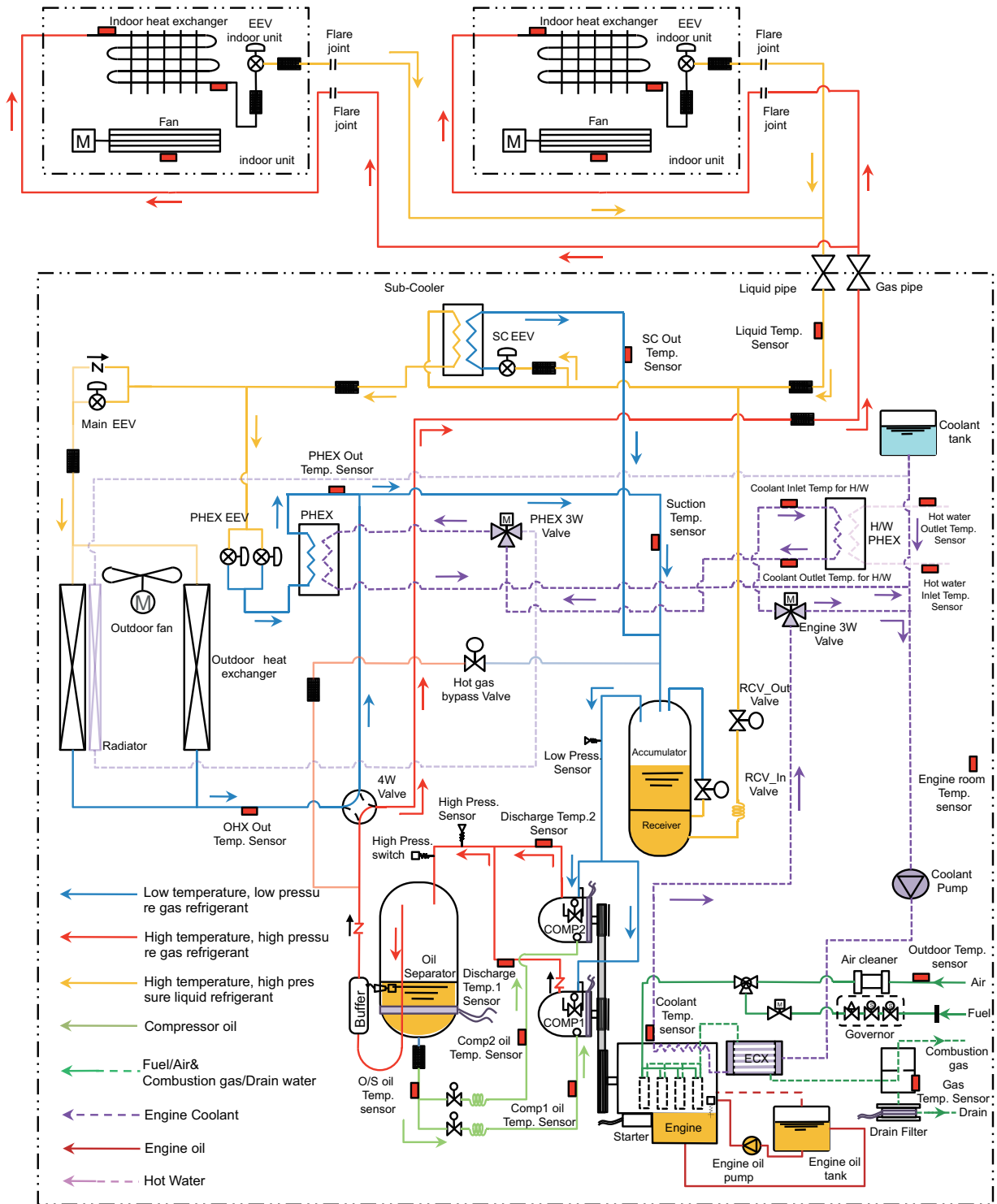
5. Piping Diagrams

◆ Cooling



5. Piping Diagrams

◆ Heating



Symbols	Pressure sensor	Temperature sensor	Solenoid valve	Check valve	Level sensor	Mixer body (venturi)

7. Indoor Unit and Outdoor Unit Capacity Index

7.1 Indoor Unit Selection

- See the capacity tables for given Indoor and Outdoor temperature.
- Select the unit whose capacity is the nearest to or greater than given load.
- Individual Indoor Unit capacity is subject to change by combination. Actual capacity has to be calculated according to the combination by using Outdoor unit capacity table.

7.2 Outdoor Unit Selection

Allowable combinations are indicated below. In general, outdoor unit can be selected depending on the location of the unit, zoning and usage of the rooms.

The indoor and outdoor unit combination is determined by comparing the sum of indoor unit capacity index with each Outdoor Unit. It is recommended to be the nearest to 100 % combination ratio or to be smaller than that. Refer the table below. To manage cooling/heating load properly, it's better to be selected the bigger capacity outdoor unit rather than the nearest, if the installation space is large enough.

■ Indoor Unit Capacity Index

Unit Capacity (Btu/h)	7k	9k	12k	15k	18k	24k	28k	36k	42k	48k	54k	76k	96k
Capacity Index (kW)	2.2	2.8	3.6	4.5	5.6	7.1	8.2	10.6	12.3	14.1	15.8	22.4	28.0

■ Allowable Total Capacity Index Table of Combined Indoor Units

Outdoor Unit Capacity (HP)	Indoor Unit Combination Ratio								
	50%	60%	70%	80%	90%	100%	110%	120%	130%
	Capacity Index (kW)								
16	22.50	27.00	31.50	36.00	40.50	45.00	49.50	54.00	58.50
20	28.00	33.60	39.20	44.80	50.40	56.00	61.60	67.20	72.80
25	35.50	42.60	49.70	56.80	63.90	71.00	78.10	85.20	92.30
28	41.00	49.20	57.40	65.60	73.80	82.00	90.20	98.40	106.60
30	42.50	51.00	59.50	68.00	76.50	85.00	93.50	102.00	110.50
32	45.00	54.00	63.00	72.00	81.00	90.00	99.00	108.00	117.00
36	50.50	60.60	70.70	80.80	90.90	101.00	111.10	121.20	131.30
40	56.00	67.20	78.40	89.60	100.80	112.00	123.20	134.40	145.60
50	71.00	85.20	99.40	113.60	127.80	142.00	156.20	170.40	184.60
56	82.00	98.40	114.80	131.20	147.60	164.00	180.40	196.80	213.20
60	85.00	102.00	119.00	136.00	153.00	170.00	187.00	204.00	221.00
64	90.00	108.00	126.00	144.00	162.00	180.00	198.00	216.00	234.00

7. Indoor Unit and Outdoor Unit Capacity Index

■ Combination of Outdoor Units

System Capacity [HP (kW)]	Number of Individual Outdoor Units	Individual Outdoor Unit Capacity [HP (kW)]											
		16 (45)		20 (56)		25 (71)		28 (82)		30 (85)		32 (90)	
		Master	Slave	Master	Slave	Master	Slave	Master	Slave	Master	Slave	Master	Slave
16 (45)	1	1											
20 (56)	1			1									
25 (71)	1					1							
28 (82)	1							1					
30 (85)	1									1			
32 (90)	1											1	
36 (101)	2		1	1									
40 (112)	2			1	1								
50 (142)	2					1	1						
56 (164)	2							1	1				
60 (170)	2									1	1		
64 (180)	2											1	1

⚠ CAUTION

◆ Combination Ratio (50~200%)

Number of Outdoor units	Combination Ratio
Single Unit	200 %
Two Units combination	160 %

- We can guarantee the operation only within 130 % Combination Ratio. If you want to connect more than 130 % combination Ratio, please contact us and discuss the requirement.
- In case that operating indoor units ratio to rated capacity of outdoor unit is more than 130 %, the airflow should be operated as low step in the all indoor units.

8. Capacity tables

8.1 Cooling Capacity

◆ 16HP

Combi- nation (%)	Outdoor air temp. °C DB	Indoor air temp. (DB/WB, °C)											
		23		26		27		28		30		32	
		16	18	18	19	19	20	20	22	22	24	24	
		TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
130	25	40.4	25.3	45.5	28.4	48.6	30.3	50.3	31.3	51.5	32.0	52.0	32.2
	27	40.4	25.7	45.5	29.0	48.6	30.9	50.3	31.9	51.5	32.6	52.0	32.8
	29	40.4	26.1	45.5	29.4	48.6	31.3	50.3	32.3	51.5	33.1	52.0	33.3
	31	40.4	26.5	45.5	29.8	48.6	31.8	50.3	32.8	51.5	33.5	52.0	33.8
	33	40.4	27.0	45.5	30.3	48.6	32.3	50.3	33.3	51.5	34.1	52.0	34.3
	35	40.4	27.5	45.5	30.8	48.6	32.9	50.3	33.9	51.5	34.6	52.0	34.8
	37	39.7	28.6	44.4	32.0	47.0	33.7	48.6	34.6	49.8	35.2	50.3	35.3
39	38.9	30.4	43.3	33.6	45.3	35.0	46.9	35.8	48.1	36.4	48.6	36.6	
120	25	39.4	24.9	44.4	28.0	47.4	29.8	49.0	30.9	50.2	31.6	50.7	31.7
	27	39.4	25.2	44.4	28.4	47.4	30.3	49.0	31.3	50.2	32.0	50.7	32.2
	29	39.4	25.6	44.4	28.8	47.4	30.7	49.0	31.7	50.2	32.4	50.7	32.6
	31	39.4	26.0	44.4	29.2	47.4	31.2	49.0	32.2	50.2	32.9	50.7	33.1
	33	39.4	26.4	44.4	29.7	47.4	31.7	49.0	32.7	50.2	33.4	50.7	33.6
	35	39.4	26.9	44.4	30.2	47.4	32.2	49.0	33.2	50.2	34.0	50.7	34.2
	37	38.7	28.1	43.3	31.4	45.8	33.0	47.4	33.9	48.6	34.5	49.1	34.6
39	38.0	29.8	42.3	32.9	44.2	34.3	45.7	35.1	46.9	35.7	47.4	35.9	
110	25	38.4	24.4	43.3	27.5	46.2	29.2	47.8	30.3	49.0	31.0	49.4	31.1
	27	38.4	24.8	43.3	27.9	46.2	29.7	47.8	30.7	49.0	31.3	49.4	31.6
	29	38.4	25.1	43.3	28.2	46.2	30.1	47.8	31.1	49.0	31.8	49.4	32.0
	31	38.4	25.5	43.3	28.7	46.2	30.6	47.8	31.6	49.0	32.3	49.4	32.5
	33	38.4	25.9	43.3	29.1	46.2	31.1	47.8	32.1	49.0	32.8	49.4	33.0
	35	38.4	26.4	43.3	29.6	46.2	31.6	47.8	32.6	49.0	33.3	49.4	33.5
	37	37.7	27.5	42.2	30.8	44.7	32.4	46.2	33.3	47.4	33.9	47.8	33.9
39	37.0	29.2	41.2	32.3	43.1	33.6	44.6	34.4	45.7	35.0	46.3	35.2	
100	25	37.4	24.0	42.1	26.9	45.0	28.7	46.6	29.7	47.7	30.4	48.2	30.5
	27	37.4	24.3	42.1	27.3	45.0	29.1	46.6	30.1	47.7	30.7	48.2	30.9
	29	37.4	24.6	42.1	27.7	45.0	29.6	46.6	30.5	47.7	31.2	48.2	31.4
	31	37.4	25.0	42.1	28.1	45.0	30.0	46.6	30.9	47.7	31.6	48.2	31.8
	33	37.4	25.4	42.1	28.6	45.0	30.5	46.6	31.4	47.7	32.1	48.2	32.3
	35	37.4	25.9	42.1	29.0	45.0	31.0	46.6	31.9	47.7	32.7	48.2	32.9
	37	36.7	27.0	41.1	30.2	43.5	31.7	45.0	32.6	46.1	33.2	46.6	33.3
39	36.0	28.6	40.1	31.6	42.0	33.0	43.4	33.7	44.6	34.3	45.0	34.6	
90	25	33.7	19.8	37.9	22.3	40.5	23.7	41.9	24.6	42.9	25.1	43.3	25.3
	27	33.7	20.1	37.9	22.6	40.5	24.1	41.9	24.9	42.9	25.4	43.3	25.6
	29	33.7	20.4	37.9	22.9	40.5	24.5	41.9	25.2	42.9	25.8	43.3	26.0
	31	33.7	20.7	37.9	23.3	40.5	24.9	41.9	25.6	42.9	26.2	43.3	26.4
	33	33.7	21.1	37.9	23.7	40.5	25.3	41.9	26.0	42.9	26.6	43.3	26.8
	35	33.7	21.4	37.9	24.0	40.5	25.7	41.9	26.4	42.9	27.0	43.3	27.2
	37	33.1	22.4	37.0	25.0	39.1	26.3	40.5	27.0	41.5	27.5	41.9	27.5
39	32.4	23.7	36.1	26.2	37.8	27.3	39.1	27.9	40.1	28.4	40.5	28.6	
80	25	30.0	17.6	33.7	19.8	36.0	21.3	37.3	21.9	38.2	22.3	38.5	22.5
	27	30.0	17.9	33.7	20.1	36.0	21.6	37.3	22.1	38.2	22.6	38.5	22.8
	29	30.0	18.1	33.7	20.4	36.0	22.0	37.3	22.4	38.2	22.9	38.5	23.1
	31	30.0	18.4	33.7	20.7	36.0	22.3	37.3	22.8	38.2	23.3	38.5	23.4
	33	30.0	18.7	33.7	21.0	36.0	22.7	37.3	23.1	38.2	23.6	38.5	23.8
	35	30.0	19.1	33.7	21.4	36.0	23.1	37.3	23.5	38.2	24.0	38.5	24.2
	37	30.0	19.9	33.7	22.2	36.0	23.6	37.3	24.0	38.2	24.4	38.5	24.5
39	30.0	21.1	33.7	23.3	36.0	24.5	37.3	24.8	38.2	25.3	38.5	25.4	
70	25	26.2	15.4	29.5	17.3	31.5	18.5	32.6	19.1	33.4	19.6	33.7	19.7
	27	26.2	15.6	29.5	17.6	31.5	18.7	32.6	19.4	33.4	19.8	33.7	19.9
	29	26.2	15.9	29.5	17.8	31.5	19.0	32.6	19.6	33.4	20.1	33.7	20.2
	31	26.2	16.1	29.5	18.1	31.5	19.3	32.6	19.9	33.4	20.4	33.7	20.5
	33	26.2	16.4	29.5	18.4	31.5	19.6	32.6	20.2	33.4	20.7	33.7	20.8
	35	26.2	16.7	29.5	18.7	31.5	20.0	32.6	20.6	33.4	21.0	33.7	21.2
	37	26.2	17.4	29.5	19.4	31.5	20.4	32.6	21.0	33.4	21.4	33.7	21.4
39	26.2	18.4	29.5	20.4	31.5	21.2	32.6	21.7	33.4	22.1	33.7	22.3	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combination (%)	Outdoor air temp. °C DB	Indoor air temp. (DB/WB, °C)											
		23		26		27		28		30		32	
		16		18		19		20		22		24	
		TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
60	25	22.5	13.2	25.3	14.9	27.0	15.8	27.9	16.4	28.6	16.8	28.9	16.9
	27	22.5	13.4	25.3	15.1	27.0	16.1	27.9	16.6	28.6	17.0	28.9	17.1
	29	22.5	13.6	25.3	15.3	27.0	16.3	27.9	16.8	28.6	17.2	28.9	17.3
	31	22.5	13.8	25.3	15.5	27.0	16.6	27.9	17.1	28.6	17.5	28.9	17.6
	33	22.5	14.0	25.3	15.8	27.0	16.8	27.9	17.3	28.6	17.7	28.9	17.8
	35	22.5	14.3	25.3	16.0	27.0	17.1	27.9	17.6	28.6	18.0	28.9	18.1
	37	22.5	14.9	25.3	16.7	27.0	17.5	27.9	18.0	28.6	18.3	28.9	18.4
	39	22.5	15.8	25.3	17.5	27.0	18.2	27.9	18.6	28.6	19.0	28.9	19.1
50	25	18.7	11.0	21.1	12.4	22.5	13.2	23.3	13.7	23.9	14.0	24.1	14.0
	27	18.7	11.2	21.1	12.6	22.5	13.4	23.3	13.8	23.9	14.1	24.1	14.2
	29	18.7	11.3	21.1	12.7	22.5	13.6	23.3	14.0	23.9	14.3	24.1	14.4
	31	18.7	11.5	21.1	12.9	22.5	13.8	23.3	14.2	23.9	14.6	24.1	14.6
	33	18.7	11.7	21.1	13.1	22.5	14.0	23.3	14.5	23.9	14.8	24.1	14.9
	35	18.7	11.9	21.1	13.4	22.5	14.3	23.3	14.7	23.9	15.0	24.1	15.1
	37	18.7	12.4	21.1	13.9	22.5	14.6	23.3	15.0	23.9	15.3	24.1	15.3
	39	18.7	13.2	21.1	14.6	22.5	15.2	23.3	15.5	23.9	15.8	24.1	15.9

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

◆ 20HP

Combination (%)	Outdoor air temp. °C DB	Indoor air temp. (DB/WB, °C)											
		23		26		27		28		30		32	
		16	18	18	19	19	20	20	22	22	24	24	
		TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
130	25	50.3	30.2	56.6	33.9	60.5	36.1	62.6	37.4	64.1	38.2	64.7	38.4
	27	50.3	30.7	56.6	34.6	60.5	36.8	62.6	38.1	64.1	38.9	64.7	39.2
	29	50.3	31.2	56.6	35.0	60.5	37.4	62.6	38.6	64.1	39.5	64.7	39.7
	31	50.3	31.7	56.6	35.6	60.5	38.0	62.6	39.2	64.1	40.0	64.7	40.3
	33	50.3	32.2	56.6	36.2	60.5	38.6	62.6	39.8	64.1	40.7	64.7	40.9
	35	50.3	32.8	56.6	36.8	60.5	39.2	62.6	40.4	64.1	41.3	64.7	41.6
	37	49.4	34.2	55.3	38.2	58.4	40.2	60.5	41.3	62.0	42.0	62.6	42.1
39	48.4	36.2	53.9	40.1	56.4	41.7	58.3	42.7	59.9	43.5	60.5	43.7	
120	25	49.1	29.7	55.2	33.4	59.0	35.6	61.0	36.8	62.5	37.7	63.1	37.9
	27	49.1	30.1	55.2	33.9	59.0	36.1	61.0	37.3	62.5	38.1	63.1	38.4
	29	49.1	30.6	55.2	34.3	59.0	36.7	61.0	37.8	62.5	38.7	63.1	38.9
	31	49.1	31.0	55.2	34.9	59.0	37.3	61.0	38.4	62.5	39.3	63.1	39.5
	33	49.1	31.5	55.2	35.5	59.0	37.8	61.0	39.0	62.5	39.9	63.1	40.1
	35	49.1	32.1	55.2	36.0	59.0	38.5	61.0	39.6	62.5	40.5	63.1	40.8
	37	48.1	33.5	53.9	37.5	57.0	39.4	59.0	40.5	60.4	41.2	61.1	41.3
39	47.2	35.5	52.6	39.3	55.0	40.9	56.9	41.8	58.4	42.6	59.0	42.9	
110	25	47.8	29.2	53.8	32.8	57.5	34.9	59.5	36.1	61.0	37.0	61.5	37.2
	27	47.8	29.6	53.8	33.2	57.5	35.4	59.5	36.6	61.0	37.4	61.5	37.7
	29	47.8	30.0	53.8	33.7	57.5	36.0	59.5	37.1	61.0	37.9	61.5	38.2
	31	47.8	30.5	53.8	34.2	57.5	36.5	59.5	37.7	61.0	38.5	61.5	38.8
	33	47.8	31.0	53.8	34.8	57.5	37.1	59.5	38.3	61.0	39.1	61.5	39.4
	35	47.8	31.5	53.8	35.4	57.5	37.7	59.5	38.9	61.0	39.8	61.5	40.0
	37	47.0	32.9	52.6	36.8	55.6	38.6	57.5	39.7	58.9	40.4	59.5	40.5
39	46.1	34.8	51.3	38.5	53.7	40.2	55.5	41.1	56.9	41.8	57.6	42.1	
100	25	46.6	28.6	52.4	32.1	56.0	34.2	58.0	35.4	59.4	36.2	59.9	36.4
	27	46.6	29.0	52.4	32.6	56.0	34.7	58.0	35.9	59.4	36.7	59.9	36.9
	29	46.6	29.4	52.4	33.0	56.0	35.3	58.0	36.4	59.4	37.2	59.9	37.4
	31	46.6	29.9	52.4	33.6	56.0	35.8	58.0	36.9	59.4	37.8	59.9	38.0
	33	46.6	30.3	52.4	34.1	56.0	36.4	58.0	37.5	59.4	38.3	59.9	38.6
	35	46.6	30.9	52.4	34.7	56.0	37.0	58.0	38.1	59.4	39.0	59.9	39.2
	37	45.7	32.2	51.2	36.0	54.1	37.9	56.0	38.9	57.4	39.6	58.0	39.7
39	44.9	34.2	50.0	37.8	52.2	39.4	54.0	40.2	55.4	41.0	56.1	41.2	
90	25	41.9	23.7	47.2	26.6	50.4	28.3	52.2	29.3	53.4	30.0	53.9	30.2
	27	41.9	24.0	47.2	27.0	50.4	28.8	52.2	29.7	53.4	30.4	53.9	30.6
	29	41.9	24.4	47.2	27.4	50.4	29.2	52.2	30.1	53.4	30.8	53.9	31.0
	31	41.9	24.7	47.2	27.8	50.4	29.7	52.2	30.6	53.4	31.3	53.9	31.5
	33	41.9	25.1	47.2	28.2	50.4	30.1	52.2	31.1	53.4	31.8	53.9	31.9
	35	41.9	25.6	47.2	28.7	50.4	30.6	52.2	31.5	53.4	32.3	53.9	32.5
	37	41.2	26.7	46.1	29.8	48.7	31.4	50.4	32.3	51.7	32.8	52.2	32.9
39	40.4	28.3	45.0	31.3	47.0	32.6	48.6	33.3	49.9	33.9	50.5	34.1	
80	25	37.3	21.1	41.9	23.7	44.8	25.5	46.4	26.1	47.5	26.7	47.9	26.8
	27	37.3	21.3	41.9	24.0	44.8	25.8	46.4	26.4	47.5	27.0	47.9	27.2
	29	37.3	21.7	41.9	24.3	44.8	26.2	46.4	26.8	47.5	27.4	47.9	27.6
	31	37.3	22.0	41.9	24.7	44.8	26.7	46.4	27.2	47.5	27.8	47.9	28.0
	33	37.3	22.3	41.9	25.1	44.8	27.1	46.4	27.6	47.5	28.2	47.9	28.4
	35	37.3	22.7	41.9	25.5	44.8	27.5	46.4	28.0	47.5	28.7	47.9	28.9
	37	37.3	23.7	41.9	26.5	44.8	28.2	46.4	28.7	47.5	29.2	47.9	29.2
39	37.3	25.1	41.9	27.8	44.8	29.3	46.4	29.6	47.5	30.2	47.9	30.4	
70	25	32.6	18.4	36.7	20.7	39.2	22.0	40.6	22.8	41.6	23.3	41.9	23.5
	27	32.6	18.7	36.7	21.0	39.2	22.4	40.6	23.1	41.6	23.6	41.9	23.8
	29	32.6	18.9	36.7	21.3	39.2	22.7	40.6	23.4	41.6	24.0	41.9	24.1
	31	32.6	19.2	36.7	21.6	39.2	23.1	40.6	23.8	41.6	24.3	41.9	24.5
	33	32.6	19.5	36.7	22.0	39.2	23.4	40.6	24.2	41.6	24.7	41.9	24.8
	35	32.6	19.9	36.7	22.3	39.2	23.8	40.6	24.5	41.6	25.1	41.9	25.3
	37	32.6	20.8	36.7	23.2	39.2	24.4	40.6	25.1	41.6	25.5	41.9	25.6
39	32.6	22.0	36.7	24.3	39.2	25.4	40.6	25.9	41.6	26.4	41.9	26.6	
60	25	28.0	15.8	31.4	17.7	33.6	18.9	34.8	19.6	35.6	20.0	36.0	20.1
	27	28.0	16.0	31.4	18.0	33.6	19.2	34.8	19.8	35.6	20.2	36.0	20.4
	29	28.0	16.2	31.4	18.2	33.6	19.5	34.8	20.1	35.6	20.5	36.0	20.7
	31	28.0	16.5	31.4	18.5	33.6	19.8	34.8	20.4	35.6	20.8	36.0	21.0
	33	28.0	16.8	31.4	18.8	33.6	20.1	34.8	20.7	35.6	21.2	36.0	21.3
	35	28.0	17.1	31.4	19.1	33.6	20.4	34.8	21.0	35.6	21.5	36.0	21.6
	37	28.0	17.8	31.4	19.9	33.6	20.9	34.8	21.5	35.6	21.9	36.0	21.9
39	28.0	18.9	31.4	20.8	33.6	21.7	34.8	22.2	35.6	22.6	36.0	22.8	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp. °C DB	Indoor air temp. (DB/WB, °C)											
		23		26		27		28		30		32	
		16		18		19		20		22		24	
		TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
50	25	23.3	13.2	26.2	14.8	28.0	15.7	29.0	16.3	29.7	16.7	30.0	16.8
	27	23.3	13.3	26.2	15.0	28.0	16.0	29.0	16.5	29.7	16.9	30.0	17.0
	29	23.3	13.5	26.2	15.2	28.0	16.2	29.0	16.7	29.7	17.1	30.0	17.2
	31	23.3	13.7	26.2	15.4	28.0	16.5	29.0	17.0	29.7	17.4	30.0	17.5
	33	23.3	14.0	26.2	15.7	28.0	16.7	29.0	17.3	29.7	17.6	30.0	17.7
	35	23.3	14.2	26.2	15.9	28.0	17.0	29.0	17.5	29.7	17.9	30.0	18.0
	37	23.3	14.8	26.2	16.6	28.0	17.4	29.0	17.9	29.7	18.2	30.0	18.3
	39	23.3	15.7	26.2	17.4	28.0	18.1	29.0	18.5	29.7	18.9	30.0	19.0

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

◆ 25HP

Combination (%)	Outdoor air temp. °C DB	Indoor air temp. (DB/WB, °C)											
		23		26		27		28		30		32	
		16	18	18	19	19	20	20	22	22	24	24	
		TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
130	25	63.8	38.3	71.7	43.1	76.7	45.9	79.3	47.5	81.3	48.6	82.0	48.8
	27	63.8	39.0	71.7	43.9	76.7	46.8	79.3	48.3	81.3	49.4	82.0	49.7
	29	63.8	39.6	71.7	44.5	76.7	47.5	79.3	49.0	81.3	50.1	82.0	50.4
	31	63.8	40.2	71.7	45.2	76.7	48.3	79.3	49.7	81.3	50.9	82.0	51.2
	33	63.8	40.9	71.7	45.9	76.7	49.0	79.3	50.5	81.3	51.7	82.0	52.0
	35	63.8	41.6	71.7	46.7	76.7	49.8	79.3	51.3	81.3	52.5	82.0	52.8
	37	62.6	43.4	70.1	48.5	74.1	51.0	76.7	52.5	78.6	53.4	79.4	53.5
39	61.4	46.0	68.4	50.9	71.5	53.0	74.0	54.2	75.9	55.2	76.7	55.6	
120	25	62.2	37.8	70.0	42.5	74.8	45.2	77.4	46.8	79.2	47.9	80.0	48.1
	27	62.2	38.3	70.0	43.0	74.8	45.9	77.4	47.4	79.2	48.4	80.0	48.8
	29	62.2	38.9	70.0	43.6	74.8	46.6	77.4	48.0	79.2	49.1	80.0	49.4
	31	62.2	39.4	70.0	44.3	74.8	47.3	77.4	48.8	79.2	49.9	80.0	50.2
	33	62.2	40.1	70.0	45.0	74.8	48.1	77.4	49.5	79.2	50.6	80.0	51.0
	35	62.2	40.8	70.0	45.8	74.8	48.9	77.4	50.3	79.2	51.5	80.0	51.8
	37	61.0	42.6	68.3	47.6	72.3	50.0	74.8	51.4	76.6	52.3	77.4	52.4
39	59.9	45.1	66.7	49.9	69.8	52.0	72.1	53.1	74.0	54.1	74.8	54.5	
110	25	60.7	37.1	68.2	41.7	72.9	44.3	75.5	45.9	77.3	47.0	78.0	47.2
	27	60.7	37.5	68.2	42.2	72.9	45.0	75.5	46.5	77.3	47.5	78.0	47.8
	29	60.7	38.1	68.2	42.8	72.9	45.7	75.5	47.1	77.3	48.2	78.0	48.5
	31	60.7	38.7	68.2	43.5	72.9	46.4	75.5	47.8	77.3	48.9	78.0	49.2
	33	60.7	39.3	68.2	44.2	72.9	47.2	75.5	48.6	77.3	49.7	78.0	50.0
	35	60.7	40.0	68.2	44.9	72.9	47.9	75.5	49.4	77.3	50.5	78.0	50.8
	37	59.5	41.8	66.6	46.7	70.5	49.1	72.9	50.5	74.7	51.3	75.5	51.4
39	58.4	44.3	65.0	48.9	68.0	51.0	70.4	52.1	72.2	53.1	73.0	53.4	
100	25	59.1	36.3	66.5	40.8	71.0	43.5	73.5	45.0	75.3	46.0	76.0	46.3
	27	59.1	36.8	66.5	41.4	71.0	44.1	73.5	45.6	75.3	46.6	76.0	46.9
	29	59.1	37.4	66.5	42.0	71.0	44.8	73.5	46.2	75.3	47.3	76.0	47.6
	31	59.1	37.9	66.5	42.6	71.0	45.5	73.5	46.9	75.3	48.0	76.0	48.3
	33	59.1	38.5	66.5	43.3	71.0	46.2	73.5	47.6	75.3	48.7	76.0	49.0
	35	59.1	39.3	66.5	44.0	71.0	47.0	73.5	48.4	75.3	49.5	76.0	49.8
	37	58.0	40.9	64.9	45.8	68.6	48.1	71.0	49.5	72.8	50.3	73.5	50.4
39	56.9	43.4	63.3	48.0	66.2	50.0	68.5	51.1	70.3	52.1	71.1	52.4	
90	25	53.2	30.1	59.8	33.8	63.9	36.0	66.1	37.3	67.7	38.1	68.4	38.3
	27	53.2	30.5	59.8	34.3	63.9	36.5	66.1	37.7	67.7	38.6	68.4	38.8
	29	53.2	30.9	59.8	34.7	63.9	37.1	66.1	38.2	67.7	39.1	68.4	39.4
	31	53.2	31.4	59.8	35.3	63.9	37.7	66.1	38.8	67.7	39.7	68.4	40.0
	33	53.2	31.9	59.8	35.9	63.9	38.3	66.1	39.5	67.7	40.3	68.4	40.6
	35	53.2	32.5	59.8	36.5	63.9	38.9	66.1	40.1	67.7	41.0	68.4	41.2
	37	52.2	33.9	58.4	37.9	61.8	39.8	63.9	41.0	65.5	41.7	66.2	41.8
39	51.2	35.9	57.0	39.7	59.6	41.4	61.7	42.3	63.3	43.1	64.0	43.4	
80	25	47.3	26.7	53.2	30.1	56.8	32.0	58.8	33.1	60.2	33.9	60.8	34.1
	27	47.3	27.1	53.2	30.5	56.8	32.5	58.8	33.5	60.2	34.3	60.8	34.5
	29	47.3	27.5	53.2	30.9	56.8	33.0	58.8	34.0	60.2	34.8	60.8	35.0
	31	47.3	27.9	53.2	31.4	56.8	33.5	58.8	34.5	60.2	35.3	60.8	35.5
	33	47.3	28.4	53.2	31.9	56.8	34.0	58.8	35.1	60.2	35.9	60.8	36.1
	35	47.3	28.9	53.2	32.4	56.8	34.6	58.8	35.6	60.2	36.4	60.8	36.7
	37	47.3	30.1	53.2	33.7	56.8	35.4	58.8	36.4	60.2	37.0	60.8	37.1
39	47.3	31.9	53.2	35.3	56.8	36.8	58.8	37.6	60.2	38.3	60.8	38.6	
70	25	41.4	23.4	46.5	26.3	49.7	28.0	51.4	29.0	52.7	29.6	53.2	29.8
	27	41.4	23.7	46.5	26.7	49.7	28.4	51.4	29.4	52.7	30.0	53.2	30.2
	29	41.4	24.1	46.5	27.0	49.7	28.9	51.4	29.7	52.7	30.4	53.2	30.6
	31	41.4	24.4	46.5	27.4	49.7	29.3	51.4	30.2	52.7	30.9	53.2	31.1
	33	41.4	24.8	46.5	27.9	49.7	29.8	51.4	30.7	52.7	31.4	53.2	31.6
	35	41.4	25.3	46.5	28.4	49.7	30.3	51.4	31.2	52.7	31.9	53.2	32.1
	37	41.4	26.4	46.5	29.5	49.7	31.0	51.4	31.9	52.7	32.4	53.2	32.5
39	41.4	27.9	46.5	30.9	49.7	32.2	51.4	32.9	52.7	33.5	53.2	33.7	
60	25	35.4	20.1	39.9	22.5	42.6	24.0	44.1	24.8	45.2	25.4	45.6	25.5
	27	35.4	20.3	39.9	22.9	42.6	24.4	44.1	25.2	45.2	25.7	45.6	25.9
	29	35.4	20.6	39.9	23.2	42.6	24.7	44.1	25.5	45.2	26.1	45.6	26.2
	31	35.4	20.9	39.9	23.5	42.6	25.1	44.1	25.9	45.2	26.5	45.6	26.6
	33	35.4	21.3	39.9	23.9	42.6	25.5	44.1	26.3	45.2	26.9	45.6	27.1
	35	35.4	21.7	39.9	24.3	42.6	25.9	44.1	26.7	45.2	27.3	45.6	27.5
	37	35.4	22.6	39.9	25.3	42.6	26.6	44.1	27.3	45.2	27.8	45.6	27.8
39	35.4	24.0	39.9	26.5	42.6	27.6	44.1	28.2	45.2	28.7	45.6	28.9	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp. °C DB	Indoor air temp. (DB/WB, °C)											
		23		26		27		28		30		32	
		16		18		19		20		22		24	
		TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
50	25	29.5	16.7	33.2	18.8	35.5	20.0	36.7	20.7	37.6	21.2	38.0	21.3
	27	29.5	16.9	33.2	19.0	35.5	20.3	36.7	21.0	37.6	21.4	38.0	21.6
	29	29.5	17.2	33.2	19.3	35.5	20.6	36.7	21.2	37.6	21.7	38.0	21.9
	31	29.5	17.4	33.2	19.6	35.5	20.9	36.7	21.6	37.6	22.1	38.0	22.2
	33	29.5	17.7	33.2	19.9	35.5	21.3	36.7	21.9	37.6	22.4	38.0	22.5
	35	29.5	18.1	33.2	20.3	35.5	21.6	36.7	22.3	37.6	22.8	38.0	22.9
	37	29.5	18.8	33.2	21.1	35.5	22.1	36.7	22.8	37.6	23.2	38.0	23.2
	39	29.5	20.0	33.2	22.1	35.5	23.0	36.7	23.5	37.6	24.0	38.0	24.1

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

◆ 28HP

Combination (%)	Outdoor air temp. °C DB	Indoor air temp. (DB/WB, °C)											
		23		26		27		28		30		32	
		16	18	19	20	22	24	TC	FC	TC	FC		
130	25	73.7	44.0	82.9	49.4	88.5	52.6	91.6	54.5	93.8	55.7	94.7	56.0
	27	73.7	44.8	82.9	50.3	88.5	53.7	91.6	55.4	93.8	56.7	94.7	57.0
	29	73.7	45.5	82.9	51.0	88.5	54.5	91.6	56.2	93.8	57.5	94.7	57.8
	31	73.7	46.1	82.9	51.8	88.5	55.4	91.6	57.0	93.8	58.3	94.7	58.7
	33	73.7	46.9	82.9	52.7	88.5	56.2	91.6	57.9	93.8	59.2	94.7	59.6
	35	73.7	47.7	82.9	53.5	88.5	57.2	91.6	58.9	93.8	60.2	94.7	60.6
	37	72.3	49.8	80.9	55.7	85.6	58.5	88.5	60.2	90.7	61.2	91.7	61.3
39	70.9	52.8	79.0	58.4	82.6	60.8	85.4	62.2	87.6	63.3	88.6	63.7	
120	25	71.8	43.3	80.8	48.7	86.3	51.8	89.4	53.7	91.5	54.9	92.4	55.2
	27	71.8	43.9	80.8	49.4	86.3	52.6	89.4	54.3	91.5	55.6	92.4	55.9
	29	71.8	44.6	80.8	50.0	86.3	53.4	89.4	55.1	91.5	56.3	92.4	56.7
	31	71.8	45.2	80.8	50.8	86.3	54.3	89.4	55.9	91.5	57.2	92.4	57.5
	33	71.8	46.0	80.8	51.7	86.3	55.1	89.4	56.8	91.5	58.1	92.4	58.4
	35	71.8	46.8	80.8	52.5	86.3	56.0	89.4	57.7	91.5	59.0	92.4	59.4
	37	70.5	48.8	78.9	54.6	83.5	57.4	86.3	59.0	88.5	60.0	89.4	60.1
39	69.2	51.7	77.0	57.2	80.6	59.6	83.3	61.0	85.5	62.1	86.4	62.5	
110	25	70.1	42.5	78.8	47.8	84.2	50.9	87.1	52.7	89.3	53.8	90.1	54.1
	27	70.1	43.1	78.8	48.4	84.2	51.6	87.1	53.3	89.3	54.5	90.1	54.9
	29	70.1	43.7	78.8	49.1	84.2	52.4	87.1	54.0	89.3	55.3	90.1	55.6
	31	70.1	44.4	78.8	49.9	84.2	53.2	87.1	54.9	89.3	56.1	90.1	56.5
	33	70.1	45.1	78.8	50.7	84.2	54.1	87.1	55.7	89.3	57.0	90.1	57.3
	35	70.1	45.9	78.8	51.5	84.2	55.0	87.1	56.6	89.3	57.9	90.1	58.3
	37	68.8	47.9	77.0	53.5	81.4	56.3	84.2	57.9	86.3	58.9	87.2	59.0
39	67.4	50.8	75.1	56.1	78.6	58.5	81.3	59.8	83.4	60.9	84.3	61.3	
100	25	68.2	41.7	76.8	46.8	82.0	49.9	84.9	51.6	86.9	52.8	87.7	53.1
	27	68.2	42.2	76.8	47.5	82.0	50.6	84.9	52.3	86.9	53.4	87.7	53.8
	29	68.2	42.9	76.8	48.1	82.0	51.4	84.9	53.0	86.9	54.2	87.7	54.5
	31	68.2	43.5	76.8	48.9	82.0	52.2	84.9	53.8	86.9	55.0	87.7	55.3
	33	68.2	44.2	76.8	49.7	82.0	53.0	84.9	54.6	86.9	55.9	87.7	56.2
	35	68.2	45.0	76.8	50.5	82.0	53.9	84.9	55.5	86.9	56.8	87.7	57.1
	37	67.0	47.0	74.9	52.5	79.3	55.2	82.0	56.7	84.1	57.7	84.9	57.8
39	65.7	49.8	73.1	55.0	76.5	57.3	79.1	58.6	81.2	59.7	82.1	60.1	
90	25	61.4	34.5	69.1	38.8	73.8	41.3	76.4	42.7	78.2	43.7	79.0	44.0
	27	61.4	35.0	69.1	39.3	73.8	41.9	76.4	43.3	78.2	44.2	79.0	44.5
	29	61.4	35.5	69.1	39.8	73.8	42.5	76.4	43.9	78.2	44.9	79.0	45.2
	31	61.4	36.0	69.1	40.5	73.8	43.2	76.4	44.5	78.2	45.5	79.0	45.8
	33	61.4	36.6	69.1	41.1	73.8	43.9	76.4	45.2	78.2	46.3	79.0	46.5
	35	61.4	37.3	69.1	41.8	73.8	44.6	76.4	46.0	78.2	47.0	79.0	47.3
	37	60.3	38.9	67.5	43.5	71.3	45.7	73.8	47.0	75.6	47.8	76.4	47.9
39	59.1	41.2	65.8	45.6	68.9	47.5	71.2	48.5	73.1	49.4	73.9	49.7	
80	25	54.6	30.7	61.4	34.5	65.6	36.7	67.9	38.0	69.5	38.9	70.2	39.1
	27	54.6	31.1	61.4	34.9	65.6	37.2	67.9	38.5	69.5	39.3	70.2	39.6
	29	54.6	31.5	61.4	35.4	65.6	37.8	67.9	39.0	69.5	39.9	70.2	40.1
	31	54.6	32.0	61.4	36.0	65.6	38.4	67.9	39.6	69.5	40.5	70.2	40.7
	33	54.6	32.5	61.4	36.6	65.6	39.0	67.9	40.2	69.5	41.1	70.2	41.4
	35	54.6	33.1	61.4	37.2	65.6	39.7	67.9	40.9	69.5	41.8	70.2	42.0
	37	54.6	34.6	61.4	38.6	65.6	40.6	67.9	41.8	69.5	42.5	70.2	42.6
39	54.6	36.6	61.4	40.5	65.6	42.2	67.9	43.1	69.5	43.9	70.2	44.2	
70	25	47.8	26.8	53.7	30.2	57.4	32.1	59.4	33.2	60.8	34.0	61.4	34.2
	27	47.8	27.2	53.7	30.6	57.4	32.6	59.4	33.7	60.8	34.4	61.4	34.6
	29	47.8	27.6	53.7	31.0	57.4	33.1	59.4	34.1	60.8	34.9	61.4	35.1
	31	47.8	28.0	53.7	31.5	57.4	33.6	59.4	34.6	60.8	35.4	61.4	35.6
	33	47.8	28.5	53.7	32.0	57.4	34.1	59.4	35.2	60.8	36.0	61.4	36.2
	35	47.8	29.0	53.7	32.5	57.4	34.7	59.4	35.7	60.8	36.6	61.4	36.8
	37	47.8	30.2	53.7	33.8	57.4	35.5	59.4	36.5	60.8	37.2	61.4	37.2
39	47.8	32.0	53.7	35.4	57.4	36.9	59.4	37.8	60.8	38.5	61.4	38.7	
60	25	40.9	23.0	46.1	25.8	49.2	27.5	50.9	28.5	52.2	29.1	52.6	29.3
	27	40.9	23.3	46.1	26.2	49.2	27.9	50.9	28.9	52.2	29.5	52.6	29.7
	29	40.9	23.7	46.1	26.6	49.2	28.4	50.9	29.2	52.2	29.9	52.6	30.1
	31	40.9	24.0	46.1	27.0	49.2	28.8	50.9	29.7	52.2	30.4	52.6	30.5
	33	40.9	24.4	46.1	27.4	49.2	29.3	50.9	30.2	52.2	30.8	52.6	31.0
	35	40.9	24.8	46.1	27.9	49.2	29.8	50.9	30.6	52.2	31.3	52.6	31.5
	37	40.9	25.9	46.1	29.0	49.2	30.5	50.9	31.3	52.2	31.9	52.6	31.9
39	40.9	27.5	46.1	30.4	49.2	31.7	50.9	32.4	52.2	33.0	52.6	33.2	

Note
 1. TC : Total capacity(kW), FC : Fuel consumption (kW)
 2. Capacity tables show the average value of conditions which may occur.
 3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combination (%)	Outdoor air temp. °C DB	Indoor air temp. (DB/WB, °C)											
		23		26		27		28		30		32	
		16		18		19		20		22		24	
		TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
50	25	34.1	19.2	38.4	21.5	41.0	22.9	42.4	23.7	43.5	24.3	43.9	24.4
	27	34.1	19.4	38.4	21.8	41.0	23.3	42.4	24.0	43.5	24.6	43.9	24.7
	29	34.1	19.7	38.4	22.1	41.0	23.6	42.4	24.4	43.5	24.9	43.9	25.1
	31	34.1	20.0	38.4	22.5	41.0	24.0	42.4	24.7	43.5	25.3	43.9	25.5
	33	34.1	20.3	38.4	22.9	41.0	24.4	42.4	25.1	43.5	25.7	43.9	25.9
	35	34.1	20.7	38.4	23.2	41.0	24.8	42.4	25.5	43.5	26.1	43.9	26.3
	37	34.1	21.6	38.4	24.1	41.0	25.4	42.4	26.1	43.5	26.6	43.9	26.6
	39	34.1	22.9	38.4	25.3	41.0	26.4	42.4	27.0	43.5	27.5	43.9	27.6

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

◆ 30HP

Combination (%)	Outdoor air temp. °C DB	Indoor air temp. (DB/WB, °C)											
		23		26		27		28		30		32	
		16	18	19	20	22	24	TC	FC	TC	FC		
130	25	76.4	46.3	85.9	52.1	91.8	55.4	95.0	57.4	97.3	58.7	98.2	59.0
	27	76.4	47.2	85.9	53.1	91.8	56.5	95.0	58.4	97.3	59.7	98.2	60.1
	29	76.4	47.9	85.9	53.8	91.8	57.4	95.0	59.2	97.3	60.6	98.2	60.9
	31	76.4	48.6	85.9	54.6	91.8	58.3	95.0	60.1	97.3	61.5	98.2	61.9
	33	76.4	49.4	85.9	55.5	91.8	59.3	95.0	61.1	97.3	62.4	98.2	62.8
	35	76.4	50.3	85.9	56.4	91.8	60.2	95.0	62.0	97.3	63.5	98.2	63.8
	37	74.9	52.5	83.9	58.7	88.7	61.7	91.8	63.4	94.1	64.5	95.0	64.6
39	73.5	55.6	81.9	61.5	85.6	64.1	88.6	65.5	90.9	66.7	91.9	67.1	
120	25	74.5	45.7	83.8	51.3	89.5	54.6	92.6	56.6	94.9	57.8	95.8	58.2
	27	74.5	46.2	83.8	52.0	89.5	55.4	92.6	57.3	94.9	58.5	95.8	58.9
	29	74.5	47.0	83.8	52.7	89.5	56.3	92.6	58.0	94.9	59.4	95.8	59.7
	31	74.5	47.7	83.8	53.6	89.5	57.2	92.6	58.9	94.9	60.3	95.8	60.6
	33	74.5	48.4	83.8	54.4	89.5	58.1	92.6	59.9	94.9	61.2	95.8	61.6
	35	74.5	49.3	83.8	55.3	89.5	59.1	92.6	60.8	94.9	62.2	95.8	62.6
	37	73.1	51.4	81.8	57.5	86.5	60.5	89.5	62.2	91.7	63.2	92.7	63.4
39	71.7	54.5	79.8	60.3	83.5	62.8	86.4	64.2	88.6	65.4	89.6	65.8	
110	25	72.6	44.8	81.7	50.3	87.3	53.6	90.3	55.5	92.5	56.7	93.4	57.1
	27	72.6	45.4	81.7	51.0	87.3	54.4	90.3	56.2	92.5	57.4	93.4	57.8
	29	72.6	46.1	81.7	51.7	87.3	55.2	90.3	56.9	92.5	58.3	93.4	58.6
	31	72.6	46.8	81.7	52.5	87.3	56.1	90.3	57.8	92.5	59.1	93.4	59.5
	33	72.6	47.5	81.7	53.4	87.3	57.0	90.3	58.7	92.5	60.0	93.4	60.4
	35	72.6	48.4	81.7	54.3	87.3	57.9	90.3	59.7	92.5	61.0	93.4	61.4
	37	71.3	50.5	79.8	56.4	84.4	59.3	87.3	61.0	89.5	62.1	90.4	62.2
39	69.9	53.5	77.9	59.1	81.4	61.6	84.2	63.0	86.4	64.2	87.4	64.6	
100	25	70.7	43.9	79.6	49.3	85.0	52.5	88.0	54.4	90.1	55.6	91.0	55.9
	27	70.7	44.5	79.6	50.0	85.0	53.3	88.0	55.1	90.1	56.3	91.0	56.7
	29	70.7	45.2	79.6	50.7	85.0	54.2	88.0	55.8	90.1	57.1	91.0	57.5
	31	70.7	45.8	79.6	51.5	85.0	55.0	88.0	56.7	90.1	58.0	91.0	58.3
	33	70.7	46.6	79.6	52.4	85.0	55.9	88.0	57.6	90.1	58.9	91.0	59.2
	35	70.7	47.4	79.6	53.2	85.0	56.8	88.0	58.5	90.1	59.8	91.0	60.2
	37	69.4	49.5	77.7	55.3	82.2	58.2	85.0	59.8	87.1	60.8	88.0	60.9
39	68.1	52.4	75.8	58.0	79.3	60.4	82.0	61.8	84.2	62.9	85.1	63.3	
90	25	63.6	36.4	71.6	40.9	76.5	43.5	79.2	45.0	81.1	46.1	81.9	46.3
	27	63.6	36.8	71.6	41.4	76.5	44.1	79.2	45.6	81.1	46.6	81.9	46.9
	29	63.6	37.4	71.6	42.0	76.5	44.8	79.2	46.2	81.1	47.3	81.9	47.6
	31	63.6	38.0	71.6	42.6	76.5	45.5	79.2	46.9	81.1	48.0	81.9	48.3
	33	63.6	38.6	71.6	43.4	76.5	46.3	79.2	47.7	81.1	48.7	81.9	49.0
	35	63.6	39.3	71.6	44.1	76.5	47.0	79.2	48.4	81.1	49.5	81.9	49.8
	37	62.5	41.0	69.9	45.8	73.9	48.2	76.5	49.5	78.4	50.4	79.2	50.5
39	61.3	43.4	68.2	48.0	71.4	50.0	73.8	51.2	75.7	52.1	76.6	52.4	
80	25	56.6	32.3	63.6	36.3	68.0	38.7	70.4	40.0	72.1	40.9	72.8	41.2
	27	56.6	32.7	63.6	36.8	68.0	39.2	70.4	40.5	72.1	41.4	72.8	41.7
	29	56.6	33.2	63.6	37.3	68.0	39.9	70.4	41.1	72.1	42.0	72.8	42.3
	31	56.6	33.7	63.6	37.9	68.0	40.5	70.4	41.7	72.1	42.7	72.8	42.9
	33	56.6	34.3	63.6	38.5	68.0	41.1	70.4	42.4	72.1	43.3	72.8	43.6
	35	56.6	34.9	63.6	39.2	68.0	41.8	70.4	43.1	72.1	44.0	72.8	44.3
	37	56.6	36.4	63.6	40.7	68.0	42.8	70.4	44.0	72.1	44.8	72.8	44.9
39	56.6	38.6	63.6	42.7	68.0	44.5	70.4	45.5	72.1	46.3	72.8	46.6	
70	25	49.5	28.3	55.7	31.8	59.5	33.8	61.6	35.0	63.1	35.8	63.7	36.0
	27	49.5	28.6	55.7	32.2	59.5	34.3	61.6	35.5	63.1	36.3	63.7	36.5
	29	49.5	29.1	55.7	32.7	59.5	34.9	61.6	35.9	63.1	36.8	63.7	37.0
	31	49.5	29.5	55.7	33.2	59.5	35.4	61.6	36.5	63.1	37.3	63.7	37.6
	33	49.5	30.0	55.7	33.7	59.5	36.0	61.6	37.1	63.1	37.9	63.7	38.1
	35	49.5	30.5	55.7	34.3	59.5	36.6	61.6	37.7	63.1	38.5	63.7	38.8
	37	49.5	31.9	55.7	35.6	59.5	37.5	61.6	38.5	63.1	39.2	63.7	39.2
39	49.5	33.8	55.7	37.3	59.5	38.9	61.6	39.8	63.1	40.5	63.7	40.8	
60	25	42.4	24.2	47.7	27.2	51.0	29.0	52.8	30.0	54.1	30.7	54.6	30.9
	27	42.4	24.6	47.7	27.6	51.0	29.4	52.8	30.4	54.1	31.1	54.6	31.3
	29	42.4	24.9	47.7	28.0	51.0	29.9	52.8	30.8	54.1	31.5	54.6	31.7
	31	42.4	25.3	47.7	28.4	51.0	30.4	52.8	31.3	54.1	32.0	54.6	32.2
	33	42.4	25.7	47.7	28.9	51.0	30.8	52.8	31.8	54.1	32.5	54.6	32.7
	35	42.4	26.2	47.7	29.4	51.0	31.4	52.8	32.3	54.1	33.0	54.6	33.2
	37	42.4	27.3	47.7	30.5	51.0	32.1	52.8	33.0	54.1	33.6	54.6	33.6
39	42.4	28.9	47.7	32.0	51.0	33.4	52.8	34.1	54.1	34.7	54.6	34.9	

Note

- 1. TC : Total capacity(kW), FC : Fuel consumption (kW)
- 2. Capacity tables show the average value of conditions which may occur.
- 3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp. °C DB	Indoor air temp. (DB/WB, °C)											
		23		26		27		28		30		32	
		16		18		19		20		22		24	
		TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
50	25	35.4	20.2	39.8	22.7	42.5	24.2	44.0	25.0	45.1	25.6	45.5	25.7
	27	35.4	20.5	39.8	23.0	42.5	24.5	44.0	25.3	45.1	25.9	45.5	26.1
	29	35.4	20.8	39.8	23.3	42.5	24.9	44.0	25.7	45.1	26.3	45.5	26.4
	31	35.4	21.1	39.8	23.7	42.5	25.3	44.0	26.1	45.1	26.7	45.5	26.8
	33	35.4	21.4	39.8	24.1	42.5	25.7	44.0	26.5	45.1	27.1	45.5	27.2
	35	35.4	21.8	39.8	24.5	42.5	26.1	44.0	26.9	45.1	27.5	45.5	27.7
	37	35.4	22.8	39.8	25.4	42.5	26.8	44.0	27.5	45.1	28.0	45.5	28.0
	39	35.4	24.1	39.8	26.7	42.5	27.8	44.0	28.4	45.1	28.9	45.5	29.1

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

◆ 32HP

Combina- tion (%)	Outdoor air temp. °C DB	Indoor air temp. (DB/WB, °C)											
		23		26		27		28		30		32	
		16		18		19		20		22		24	
		TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
130	25	80.8	48.9	90.9	55.0	97.2	58.6	100.6	60.6	103.0	62.0	104.0	62.3
	27	80.8	49.8	90.9	56.0	97.2	59.7	100.6	61.7	103.0	63.1	104.0	63.5
	29	80.8	50.6	90.9	56.8	97.2	60.7	100.6	62.5	103.0	64.0	104.0	64.4
	31	80.8	51.4	90.9	57.7	97.2	61.6	100.6	63.5	103.0	64.9	104.0	65.3
	33	80.8	52.2	90.9	58.7	97.2	62.6	100.6	64.5	103.0	65.9	104.0	66.4
	35	80.8	53.1	90.9	59.6	97.2	63.6	100.6	65.5	103.0	67.0	104.0	67.4
	37	79.3	55.4	88.8	62.0	93.9	65.2	97.2	67.0	99.6	68.1	100.6	68.3
39	77.8	58.7	86.7	65.0	90.7	67.7	93.8	69.2	96.2	70.5	97.3	70.9	
120	25	78.8	48.2	88.7	54.2	94.8	57.7	98.1	59.7	100.5	61.1	101.4	61.4
	27	78.8	48.9	88.7	54.9	94.8	58.6	98.1	60.5	100.5	61.8	101.4	62.2
	29	78.8	49.6	88.7	55.7	94.8	59.5	98.1	61.3	100.5	62.7	101.4	63.1
	31	78.8	50.3	88.7	56.6	94.8	60.4	98.1	62.2	100.5	63.7	101.4	64.1
	33	78.8	51.2	88.7	57.5	94.8	61.4	98.1	63.2	100.5	64.7	101.4	65.0
	35	78.8	52.1	88.7	58.4	94.8	62.4	98.1	64.2	100.5	65.7	101.4	66.1
	37	77.4	54.3	86.6	60.8	91.6	63.9	94.8	65.7	97.1	66.8	98.1	66.9
39	75.9	57.6	84.5	63.7	88.4	66.4	91.5	67.9	93.8	69.1	94.9	69.5	
110	25	76.9	47.3	86.5	53.2	92.4	56.6	95.7	58.6	98.0	59.9	98.9	60.3
	27	76.9	47.9	86.5	53.9	92.4	57.4	95.7	59.4	98.0	60.7	98.9	61.1
	29	76.9	48.7	86.5	54.6	92.4	58.3	95.7	60.1	98.0	61.5	98.9	61.9
	31	76.9	49.4	86.5	55.5	92.4	59.3	95.7	61.1	98.0	62.5	98.9	62.8
	33	76.9	50.2	86.5	56.4	92.4	60.2	95.7	62.0	98.0	63.4	98.9	63.8
	35	76.9	51.1	86.5	57.3	92.4	61.2	95.7	63.0	98.0	64.5	98.9	64.9
	37	75.5	53.3	84.5	59.6	89.3	62.7	92.4	64.4	94.7	65.5	95.7	65.7
39	74.0	56.5	82.4	62.5	86.2	65.1	89.2	66.6	91.5	67.8	92.5	68.2	
100	25	74.9	46.4	84.2	52.1	90.0	55.5	93.2	57.5	95.4	58.8	96.3	59.1
	27	74.9	47.0	84.2	52.8	90.0	56.3	93.2	58.2	95.4	59.5	96.3	59.9
	29	74.9	47.7	84.2	53.6	90.0	57.2	93.2	59.0	95.4	60.3	96.3	60.7
	31	74.9	48.4	84.2	54.4	90.0	58.1	93.2	59.9	95.4	61.2	96.3	61.6
	33	74.9	49.2	84.2	55.3	90.0	59.0	93.2	60.8	95.4	62.2	96.3	62.6
	35	74.9	50.1	84.2	56.2	90.0	60.0	93.2	61.8	95.4	63.2	96.3	63.6
	37	73.5	52.3	82.3	58.4	87.0	61.4	90.0	63.2	92.3	64.3	93.2	64.4
39	72.1	55.4	80.3	61.2	84.0	63.8	86.9	65.3	89.1	66.5	90.1	66.9	
90	25	67.4	38.4	75.8	43.2	81.0	46.0	83.8	47.6	85.9	48.7	86.7	48.9
	27	67.4	38.9	75.8	43.8	81.0	46.6	83.8	48.2	85.9	49.3	86.7	49.6
	29	67.4	39.5	75.8	44.4	81.0	47.4	83.8	48.8	85.9	49.9	86.7	50.3
	31	67.4	40.1	75.8	45.0	81.0	48.1	83.8	49.6	85.9	50.7	86.7	51.0
	33	67.4	40.7	75.8	45.8	81.0	48.9	83.8	50.4	85.9	51.5	86.7	51.8
	35	67.4	41.5	75.8	46.5	81.0	49.7	83.8	51.2	85.9	52.3	86.7	52.7
	37	66.1	43.3	74.0	48.4	78.3	50.9	81.0	52.3	83.0	53.2	83.9	53.3
39	64.9	45.9	72.3	50.7	75.6	52.9	78.2	54.0	80.2	55.0	81.1	55.4	
80	25	59.9	34.1	67.4	38.4	72.0	40.8	74.5	42.3	76.3	43.3	77.0	43.5
	27	59.9	34.6	67.4	38.9	72.0	41.4	74.5	42.8	76.3	43.8	77.0	44.1
	29	59.9	35.1	67.4	39.4	72.0	42.1	74.5	43.4	76.3	44.4	77.0	44.7
	31	59.9	35.6	67.4	40.0	72.0	42.8	74.5	44.1	76.3	45.1	77.0	45.3
	33	59.9	36.2	67.4	40.7	72.0	43.4	74.5	44.8	76.3	45.8	77.0	46.0
	35	59.9	36.9	67.4	41.4	72.0	44.2	74.5	45.5	76.3	46.5	77.0	46.8
	37	59.9	38.5	67.4	43.0	72.0	45.2	74.5	46.5	76.3	47.3	77.0	47.4
39	59.9	40.8	67.4	45.1	72.0	47.0	74.5	48.0	76.3	48.9	77.0	49.2	
70	25	52.4	29.9	59.0	33.6	63.0	35.7	65.2	37.0	66.8	37.8	67.4	38.1
	27	52.4	30.3	59.0	34.0	63.0	36.3	65.2	37.5	66.8	38.3	67.4	38.6
	29	52.4	30.7	59.0	34.5	63.0	36.8	65.2	38.0	66.8	38.8	67.4	39.1
	31	52.4	31.2	59.0	35.0	63.0	37.4	65.2	38.6	66.8	39.4	67.4	39.7
	33	52.4	31.7	59.0	35.6	63.0	38.0	65.2	39.2	66.8	40.0	67.4	40.3
	35	52.4	32.3	59.0	36.2	63.0	38.6	65.2	39.8	66.8	40.7	67.4	41.0
	37	52.4	33.7	59.0	37.6	63.0	39.6	65.2	40.7	66.8	41.4	67.4	41.5
39	52.4	35.7	59.0	39.4	63.0	41.1	65.2	42.0	66.8	42.8	67.4	43.1	
60	25	44.9	25.6	50.5	28.8	54.0	30.6	55.9	31.7	57.2	32.4	57.8	32.6
	27	44.9	25.9	50.5	29.2	54.0	31.1	55.9	32.1	57.2	32.8	57.8	33.0
	29	44.9	26.3	50.5	29.6	54.0	31.6	55.9	32.6	57.2	33.3	57.8	33.5
	31	44.9	26.7	50.5	30.0	54.0	32.1	55.9	33.0	57.2	33.8	57.8	34.0
	33	44.9	27.2	50.5	30.5	54.0	32.6	55.9	33.6	57.2	34.3	57.8	34.5
	35	44.9	27.7	50.5	31.0	54.0	33.1	55.9	34.1	57.2	34.9	57.8	35.1
	37	44.9	28.9	50.5	32.3	54.0	33.9	55.9	34.9	57.2	35.5	57.8	35.5
39	44.9	30.6	50.5	33.8	54.0	35.2	55.9	36.0	57.2	36.7	57.8	36.9	

Note

- 1. TC : Total capacity(kW), FC : Fuel consumption (kW)
- 2. Capacity tables show the average value of conditions which may occur.
- 3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp. °C DB	Indoor air temp. (DB/WB, °C)											
		23		26		27		28		30		32	
		16		18		19		20		22		24	
		TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
50	25	37.4	21.3	42.1	24.0	45.0	25.5	46.6	26.4	47.7	27.0	48.2	27.2
	27	37.4	21.6	42.1	24.3	45.0	25.9	46.6	26.8	47.7	27.4	48.2	27.5
	29	37.4	21.9	42.1	24.6	45.0	26.3	46.6	27.1	47.7	27.7	48.2	27.9
	31	37.4	22.3	42.1	25.0	45.0	26.7	46.6	27.5	47.7	28.2	48.2	28.3
	33	37.4	22.6	42.1	25.4	45.0	27.2	46.6	28.0	47.7	28.6	48.2	28.8
	35	37.4	23.0	42.1	25.9	45.0	27.6	46.6	28.4	47.7	29.1	48.2	29.3
	37	37.4	24.0	42.1	26.9	45.0	28.3	46.6	29.1	47.7	29.6	48.2	29.6
	39	37.4	25.5	42.1	28.2	45.0	29.4	46.6	30.0	47.7	30.6	48.2	30.8

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

◆ 36HP

Combination (%)	Outdoor air temp. °C DB	Indoor air temp. (DB/WB, °C)											
		23		26		27		28		30		32	
		16		18		19		20		22		24	
		TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
130	25	90.7	55.5	102.1	62.3	109.0	66.4	112.9	68.7	115.6	70.3	116.7	70.6
	27	90.7	56.5	102.1	63.5	109.0	67.7	112.9	69.9	115.6	71.5	116.7	72.0
	29	90.7	57.3	102.1	64.4	109.0	68.8	112.9	70.9	115.6	72.5	116.7	73.0
	31	90.7	58.2	102.1	65.4	109.0	69.8	112.9	72.0	115.6	73.6	116.7	74.0
	33	90.7	59.1	102.1	66.5	109.0	70.9	112.9	73.1	115.6	74.7	116.7	75.2
	35	90.7	60.2	102.1	67.6	109.0	72.1	112.9	74.3	115.6	76.0	116.7	76.4
	37	89.0	62.8	99.7	70.2	105.4	73.8	109.0	75.9	111.8	77.2	112.9	77.4
	39	87.3	66.6	97.3	73.6	101.7	76.7	105.2	78.4	108.0	79.9	109.2	80.4
120	25	88.5	54.7	99.5	61.4	106.4	65.4	110.1	67.7	112.7	69.2	113.8	69.6
	27	88.5	55.4	99.5	62.3	106.4	66.4	110.1	68.6	112.7	70.1	113.8	70.5
	29	88.5	56.2	99.5	63.1	106.4	67.4	110.1	69.5	112.7	71.1	113.8	71.5
	31	88.5	57.1	99.5	64.1	106.4	68.5	110.1	70.5	112.7	72.1	113.8	72.6
	33	88.5	58.0	99.5	65.2	106.4	69.6	110.1	71.7	112.7	73.3	113.8	73.7
	35	88.5	59.0	99.5	66.2	106.4	70.7	110.1	72.8	112.7	74.5	113.8	74.9
	37	86.8	61.6	97.2	68.9	102.8	72.4	106.4	74.4	109.0	75.7	110.1	75.9
	39	85.2	65.3	94.9	72.2	99.2	75.2	102.6	76.9	105.3	78.3	106.5	78.8
110	25	86.3	53.6	97.1	60.3	103.7	64.2	107.3	66.4	109.9	67.9	111.0	68.3
	27	86.3	54.3	97.1	61.1	103.7	65.1	107.3	67.3	109.9	68.8	111.0	69.2
	29	86.3	55.2	97.1	61.9	103.7	66.1	107.3	68.2	109.9	69.7	111.0	70.2
	31	86.3	56.0	97.1	62.9	103.7	67.2	107.3	69.2	109.9	70.8	111.0	71.2
	33	86.3	56.9	97.1	63.9	103.7	68.2	107.3	70.3	109.9	71.9	111.0	72.3
	35	86.3	57.9	97.1	65.0	103.7	69.4	107.3	71.4	109.9	73.1	111.0	73.5
	37	84.7	60.4	94.8	67.6	100.2	71.0	103.7	73.0	106.3	74.3	107.4	74.4
	39	83.1	64.0	92.5	70.8	96.8	73.8	100.1	75.4	102.7	76.8	103.8	77.3
100	25	84.0	52.6	94.5	59.1	101.0	62.9	104.5	65.1	107.1	66.6	108.1	67.0
	27	84.0	53.3	94.5	59.9	101.0	63.8	104.5	65.9	107.1	67.4	108.1	67.8
	29	84.0	54.1	94.5	60.7	101.0	64.8	104.5	66.8	107.1	68.4	108.1	68.8
	31	84.0	54.9	94.5	61.7	101.0	65.9	104.5	67.9	107.1	69.4	108.1	69.8
	33	84.0	55.8	94.5	62.7	101.0	66.9	104.5	68.9	107.1	70.5	108.1	70.9
	35	84.0	56.8	94.5	63.7	101.0	68.0	104.5	70.0	107.1	71.6	108.1	72.1
	37	82.5	59.2	92.3	66.2	97.6	69.6	101.0	71.6	103.5	72.8	104.6	73.0
	39	80.9	62.8	90.1	69.4	94.2	72.4	97.5	74.0	100.0	75.3	101.1	75.8
90	25	75.6	43.5	85.1	48.9	90.9	52.1	94.1	53.9	96.4	55.1	97.3	55.4
	27	75.6	44.1	85.1	49.6	90.9	52.8	94.1	54.6	96.4	55.8	97.3	56.2
	29	75.6	44.8	85.1	50.3	90.9	53.7	94.1	55.3	96.4	56.6	97.3	57.0
	31	75.6	45.4	85.1	51.1	90.9	54.5	94.1	56.2	96.4	57.5	97.3	57.8
	33	75.6	46.2	85.1	51.9	90.9	55.4	94.1	57.1	96.4	58.4	97.3	58.7
	35	75.6	47.0	85.1	52.7	90.9	56.3	94.1	58.0	96.4	59.3	97.3	59.7
	37	74.2	49.1	83.1	54.8	87.9	57.7	90.9	59.3	93.2	60.3	94.1	60.4
	39	72.8	52.0	81.1	57.5	84.8	59.9	87.7	61.2	90.0	62.4	91.0	62.8
80	25	67.2	38.7	75.6	43.5	80.8	46.8	83.6	47.9	85.6	49.0	86.5	49.3
	27	67.2	39.2	75.6	44.1	80.8	47.5	83.6	48.5	85.6	49.6	86.5	49.9
	29	67.2	39.8	75.6	44.7	80.8	48.2	83.6	49.2	85.6	50.3	86.5	50.6
	31	67.2	40.4	75.6	45.4	80.8	49.0	83.6	49.9	85.6	51.1	86.5	51.4
	33	67.2	41.0	75.6	46.1	80.8	49.8	83.6	50.7	85.6	51.9	86.5	52.2
	35	67.2	41.8	75.6	46.9	80.8	50.6	83.6	51.5	85.6	52.7	86.5	53.0
	37	67.2	43.6	75.6	48.7	80.8	51.8	83.6	52.7	85.6	53.6	86.5	53.7
	39	67.2	46.2	75.6	51.1	80.8	53.8	83.6	54.4	85.6	55.4	86.5	55.8
70	25	58.8	33.9	66.2	38.0	70.7	40.5	73.2	41.9	74.9	42.9	75.6	43.1
	27	58.8	34.3	66.2	38.6	70.7	41.1	73.2	42.5	74.9	43.4	75.6	43.7
	29	58.8	34.8	66.2	39.1	70.7	41.8	73.2	43.0	74.9	44.0	75.6	44.3
	31	58.8	35.3	66.2	39.7	70.7	42.4	73.2	43.7	74.9	44.7	75.6	45.0
	33	58.8	35.9	66.2	40.4	70.7	43.1	73.2	44.4	74.9	45.4	75.6	45.7
	35	58.8	36.6	66.2	41.0	70.7	43.8	73.2	45.1	74.9	46.1	75.6	46.4
	37	58.8	38.2	66.2	42.6	70.7	44.8	73.2	46.1	74.9	46.9	75.6	47.0
	39	58.8	40.4	66.2	44.7	70.7	46.6	73.2	47.6	74.9	48.5	75.6	48.8
60	25	50.4	29.0	56.7	32.6	60.6	34.7	62.7	36.0	64.2	36.8	64.8	37.0
	27	50.4	29.4	56.7	33.1	60.6	35.2	62.7	36.4	64.2	37.2	64.8	37.5
	29	50.4	29.8	56.7	33.5	60.6	35.8	62.7	36.9	64.2	37.7	64.8	38.0
	31	50.4	30.3	56.7	34.0	60.6	36.3	62.7	37.5	64.2	38.3	64.8	38.5
	33	50.4	30.8	56.7	34.6	60.6	36.9	62.7	38.1	64.2	38.9	64.8	39.1
	35	50.4	31.3	56.7	35.2	60.6	37.5	62.7	38.7	64.2	39.5	64.8	39.8
	37	50.4	32.7	56.7	36.6	60.6	38.4	62.7	39.5	64.2	40.2	64.8	40.3
	39	50.4	34.7	56.7	38.3	60.6	39.9	62.7	40.8	64.2	41.6	64.8	41.8

Note

- 1. TC : Total capacity(kW), FC : Fuel consumption (kW)
- 2. Capacity tables show the average value of conditions which may occur.
- 3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combination (%)	Outdoor air temp. °C DB	Indoor air temp. (DB/WB, °C)											
		23		26		27		28		30		32	
		16		18		19		20		22		24	
		TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
50	25	42.0	24.2	47.3	27.2	50.5	28.9	52.3	30.0	53.5	30.6	54.0	30.8
	27	42.0	24.5	47.3	27.6	50.5	29.4	52.3	30.3	53.5	31.0	54.0	31.2
	29	42.0	24.9	47.3	27.9	50.5	29.8	52.3	30.7	53.5	31.4	54.0	31.6
	31	42.0	25.2	47.3	28.4	50.5	30.3	52.3	31.2	53.5	31.9	54.0	32.1
	33	42.0	25.7	47.3	28.8	50.5	30.8	52.3	31.7	53.5	32.4	54.0	32.6
	35	42.0	26.1	47.3	29.3	50.5	31.3	52.3	32.2	53.5	33.0	54.0	33.2
	37	42.0	27.3	47.3	30.5	50.5	32.0	52.3	32.9	53.5	33.5	54.0	33.6
	39	42.0	28.9	47.3	31.9	50.5	33.3	52.3	34.0	53.5	34.7	54.0	34.9

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

◆ 40HP

Combination (%)	Outdoor air temp. °C DB	Indoor air temp. (DB/WB, °C)											
		23		26		27		28		30		32	
		16		18		19		20		22		24	
		TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
130	25	100.6	60.4	113.2	67.8	120.9	72.2	125.2	74.8	128.2	76.5	129.4	76.9
	27	100.6	61.5	113.2	69.1	120.9	73.7	125.2	76.1	128.2	77.8	129.4	78.3
	29	100.6	62.4	113.2	70.1	120.9	74.8	125.2	77.1	128.2	78.9	129.4	79.4
	31	100.6	63.3	113.2	71.2	120.9	76.0	125.2	78.3	128.2	80.1	129.4	80.6
	33	100.6	64.4	113.2	72.3	120.9	77.2	125.2	79.6	128.2	81.3	129.4	81.8
	35	100.6	65.5	113.2	73.5	120.9	78.5	125.2	80.8	128.2	82.7	129.4	83.2
	37	98.7	68.4	110.5	76.4	116.9	80.4	120.9	82.6	123.9	84.1	125.2	84.2
39	96.9	72.5	107.9	80.1	112.8	83.5	116.7	85.4	119.7	86.9	121.0	87.5	
120	25	98.1	59.5	110.4	66.8	117.9	71.2	122.1	73.7	125.0	75.4	126.2	75.8
	27	98.1	60.3	110.4	67.8	117.9	72.2	122.1	74.6	125.0	76.3	126.2	76.8
	29	98.1	61.2	110.4	68.7	117.9	73.4	122.1	75.6	125.0	77.4	126.2	77.8
	31	98.1	62.1	110.4	69.8	117.9	74.5	122.1	76.8	125.0	78.5	126.2	79.0
	33	98.1	63.1	110.4	70.9	117.9	75.7	122.1	78.0	125.0	79.7	126.2	80.2
	35	98.1	64.3	110.4	72.1	117.9	76.9	122.1	79.2	125.0	81.0	126.2	81.5
	37	96.3	67.0	107.8	74.9	114.0	78.8	117.9	81.0	120.9	82.4	122.1	82.5
39	94.5	71.0	105.2	78.5	110.0	81.9	113.8	83.7	116.8	85.2	118.1	85.7	
110	25	95.7	58.4	107.6	65.6	115.0	69.8	119.0	72.3	121.9	73.9	123.1	74.3
	27	95.7	59.1	107.6	66.5	115.0	70.8	119.0	73.2	121.9	74.8	123.1	75.3
	29	95.7	60.0	107.6	67.4	115.0	72.0	119.0	74.2	121.9	75.9	123.1	76.4
	31	95.7	60.9	107.6	68.4	115.0	73.1	119.0	75.3	121.9	77.0	123.1	77.5
	33	95.7	61.9	107.6	69.6	115.0	74.3	119.0	76.5	121.9	78.2	123.1	78.7
	35	95.7	63.0	107.6	70.7	115.0	75.5	119.0	77.7	121.9	79.5	123.1	80.0
	37	93.9	65.8	105.1	73.5	111.2	77.3	115.0	79.5	117.9	80.8	119.1	81.0
39	92.1	69.7	102.6	77.1	107.3	80.3	111.0	82.1	113.9	83.6	115.1	84.1	
100	25	93.2	57.2	104.8	64.3	112.0	68.5	115.9	70.9	118.7	72.5	119.8	72.9
	27	93.2	58.0	104.8	65.2	112.0	69.5	115.9	71.8	118.7	73.4	119.8	73.8
	29	93.2	58.8	104.8	66.1	112.0	70.6	115.9	72.7	118.7	74.4	119.8	74.9
	31	93.2	59.7	104.8	67.1	112.0	71.7	115.9	73.8	118.7	75.5	119.8	76.0
	33	93.2	60.7	104.8	68.2	112.0	72.8	115.9	75.0	118.7	76.7	119.8	77.2
	35	93.2	61.8	104.8	69.3	112.0	74.0	115.9	76.2	118.7	78.0	119.8	78.4
	37	91.4	64.5	102.4	72.1	108.2	75.8	112.0	77.9	114.8	79.3	116.0	79.4
39	89.7	68.3	99.9	75.5	104.5	78.7	108.1	80.5	110.9	82.0	112.1	82.5	
90	25	83.9	47.4	94.3	53.2	100.8	56.7	104.3	58.7	106.8	60.0	107.9	60.3
	27	83.9	48.0	94.3	54.0	100.8	57.5	104.3	59.4	106.8	60.7	107.9	61.1
	29	83.9	48.7	94.3	54.7	100.8	58.4	104.3	60.2	106.8	61.6	107.9	62.0
	31	83.9	49.5	94.3	55.6	100.8	59.3	104.3	61.1	106.8	62.5	107.9	62.9
	33	83.9	50.3	94.3	56.5	100.8	60.3	104.3	62.1	106.8	63.5	107.9	63.9
	35	83.9	51.2	94.3	57.4	100.8	61.3	104.3	63.1	106.8	64.5	107.9	64.9
	37	82.3	53.4	92.1	59.7	97.4	62.7	100.8	64.5	103.3	65.6	104.4	65.7
39	80.7	56.6	89.9	62.5	94.0	65.2	97.3	66.6	99.8	67.9	100.9	68.3	
80	25	74.5	42.1	83.9	47.3	89.6	50.9	92.7	52.2	95.0	53.3	95.9	53.6
	27	74.5	42.7	83.9	48.0	89.6	51.7	92.7	52.8	95.0	54.0	95.9	54.3
	29	74.5	43.3	83.9	48.6	89.6	52.5	92.7	53.5	95.0	54.8	95.9	55.1
	31	74.5	44.0	83.9	49.4	89.6	53.3	92.7	54.3	95.0	55.6	95.9	55.9
	33	74.5	44.7	83.9	50.2	89.6	54.2	92.7	55.2	95.0	56.4	95.9	56.8
	35	74.5	45.5	83.9	51.0	89.6	55.1	92.7	56.1	95.0	57.4	95.9	57.7
	37	74.5	47.4	83.9	53.0	89.6	56.4	92.7	57.3	95.0	58.3	95.9	58.4
39	74.5	50.3	83.9	55.6	89.6	58.6	92.7	59.2	95.0	60.3	95.9	60.7	
70	25	65.2	36.8	73.4	41.4	78.4	44.1	81.1	45.6	83.1	46.7	83.9	46.9
	27	65.2	37.3	73.4	42.0	78.4	44.7	81.1	46.2	83.1	47.2	83.9	47.6
	29	65.2	37.9	73.4	42.5	78.4	45.4	81.1	46.8	83.1	47.9	83.9	48.2
	31	65.2	38.5	73.4	43.2	78.4	46.2	81.1	47.6	83.1	48.6	83.9	48.9
	33	65.2	39.1	73.4	43.9	78.4	46.9	81.1	48.3	83.1	49.4	83.9	49.7
	35	65.2	39.8	73.4	44.6	78.4	47.7	81.1	49.1	83.1	50.2	83.9	50.5
	37	65.2	41.5	73.4	46.4	78.4	48.8	81.1	50.2	83.1	51.0	83.9	51.1
39	65.2	44.0	73.4	48.6	78.4	50.7	81.1	51.8	83.1	52.8	83.9	53.1	
60	25	55.9	31.6	62.9	35.5	67.2	37.8	69.6	39.1	71.2	40.0	71.9	40.2
	27	55.9	32.0	62.9	36.0	67.2	38.3	69.6	39.6	71.2	40.5	71.9	40.8
	29	55.9	32.5	62.9	36.5	67.2	38.9	69.6	40.1	71.2	41.1	71.9	41.3
	31	55.9	33.0	62.9	37.0	67.2	39.6	69.6	40.8	71.2	41.7	71.9	41.9
	33	55.9	33.5	62.9	37.7	67.2	40.2	69.6	41.4	71.2	42.3	71.9	42.6
	35	55.9	34.1	62.9	38.3	67.2	40.8	69.6	42.1	71.2	43.0	71.9	43.3
	37	55.9	35.6	62.9	39.8	67.2	41.8	69.6	43.0	71.2	43.7	71.9	43.8
39	55.9	37.7	62.9	41.7	67.2	43.5	69.6	44.4	71.2	45.3	71.9	45.5	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp. °C DB	Indoor air temp. (DB/WB, °C)											
		23		26		27		28		30		32	
		16		18		19		20		22		24	
		TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
50	25	46.6	26.3	52.4	29.6	56.0	31.5	58.0	32.6	59.4	33.3	59.9	33.5
	27	46.6	26.7	52.4	30.0	56.0	31.9	58.0	33.0	59.4	33.7	59.9	34.0
	29	46.6	27.1	52.4	30.4	56.0	32.5	58.0	33.5	59.4	34.2	59.9	34.4
	31	46.6	27.5	52.4	30.9	56.0	33.0	58.0	34.0	59.4	34.7	59.9	35.0
	33	46.6	27.9	52.4	31.4	56.0	33.5	58.0	34.5	59.4	35.3	59.9	35.5
	35	46.6	28.4	52.4	31.9	56.0	34.0	58.0	35.1	59.4	35.9	59.9	36.1
	37	46.6	29.7	52.4	33.2	56.0	34.9	58.0	35.8	59.4	36.5	59.9	36.5
	39	46.6	31.4	52.4	34.7	56.0	36.2	58.0	37.0	59.4	37.7	59.9	37.9

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

◆ 50HP

Combination (%)	Outdoor air temp. °C DB	Indoor air temp. (DB/WB, °C)											
		23		26		27		28		30		32	
		16		18		19		20		22		24	
		TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
130	25	127.6	76.7	143.5	86.2	153.3	91.7	158.7	95.0	162.5	97.1	164.0	97.7
	27	127.6	78.1	143.5	87.8	153.3	93.6	158.7	96.7	162.5	98.8	164.0	99.5
	29	127.6	79.3	143.5	89.0	153.3	95.0	158.7	98.0	162.5	100.2	164.0	100.9
	31	127.6	80.5	143.5	90.4	153.3	96.5	158.7	99.5	162.5	101.7	164.0	102.4
	33	127.6	81.8	143.5	91.9	153.3	98.1	158.7	101.1	162.5	103.3	164.0	104.0
	35	127.6	83.3	143.5	93.4	153.3	99.7	158.7	102.7	162.5	105.0	164.0	105.6
	37	125.2	86.8	140.1	97.1	148.2	102.1	153.3	104.9	157.1	106.8	158.8	107.0
39	122.8	92.0	136.8	101.8	143.0	106.1	147.9	108.4	151.8	110.4	153.5	111.1	
120	25	124.4	75.6	140.0	84.9	149.5	90.4	154.8	93.6	158.5	95.7	160.0	96.2
	27	124.4	76.5	140.0	86.1	149.5	91.7	154.8	94.8	158.5	96.9	160.0	97.5
	29	124.4	77.7	140.0	87.3	149.5	93.2	154.8	96.0	158.5	98.3	160.0	98.9
	31	124.4	78.9	140.0	88.6	149.5	94.6	154.8	97.5	158.5	99.7	160.0	100.3
	33	124.4	80.2	140.0	90.1	149.5	96.1	154.8	99.1	158.5	101.3	160.0	101.9
	35	124.4	81.6	140.0	91.6	149.5	97.7	154.8	100.6	158.5	102.9	160.0	103.6
	37	122.1	85.1	136.7	95.2	144.5	100.1	149.5	102.9	153.3	104.7	154.8	104.9
39	119.8	90.2	133.4	99.8	139.5	104.0	144.3	106.3	148.0	108.3	149.7	108.9	
110	25	121.3	74.1	136.5	83.3	145.8	88.7	150.9	91.8	154.6	93.9	156.0	94.4
	27	121.3	75.1	136.5	84.5	145.8	90.0	150.9	93.0	154.6	95.1	156.0	95.7
	29	121.3	76.2	136.5	85.6	145.8	91.4	150.9	94.2	154.6	96.4	156.0	97.0
	31	121.3	77.4	136.5	86.9	145.8	92.9	150.9	95.7	154.6	97.8	156.0	98.5
	33	121.3	78.6	136.5	88.4	145.8	94.3	150.9	97.2	154.6	99.4	156.0	100.0
	35	121.3	80.1	136.5	89.8	145.8	95.9	150.9	98.7	154.6	101.0	156.0	101.6
	37	119.1	83.5	133.3	93.4	140.9	98.2	145.8	100.9	149.5	102.7	151.0	102.9
39	116.8	88.5	130.1	97.9	136.0	102.0	140.7	104.3	144.4	106.2	146.0	106.9	
100	25	118.1	72.7	132.9	81.7	142.0	87.0	147.0	90.0	150.5	92.1	151.9	92.6
	27	118.1	73.6	132.9	82.8	142.0	88.2	147.0	91.2	150.5	93.2	151.9	93.8
	29	118.1	74.7	132.9	83.9	142.0	89.6	147.0	92.4	150.5	94.5	151.9	95.1
	31	118.1	75.9	132.9	85.2	142.0	91.0	147.0	93.8	150.5	95.9	151.9	96.5
	33	118.1	77.1	132.9	86.6	142.0	92.5	147.0	95.3	150.5	97.4	151.9	98.0
	35	118.1	78.5	132.9	88.1	142.0	94.0	147.0	96.8	150.5	99.0	151.9	99.6
	37	115.9	81.9	129.8	91.5	137.2	96.3	142.0	99.0	145.6	100.7	147.0	100.9
39	113.7	86.8	126.7	96.0	132.5	100.0	137.0	102.2	140.6	104.1	142.1	104.8	
90	25	106.3	60.2	119.6	67.6	127.8	72.0	132.3	74.5	135.5	76.2	136.7	76.6
	27	106.3	61.0	119.6	68.6	127.8	73.1	132.3	75.5	135.5	77.2	136.7	77.7
	29	106.3	61.9	119.6	69.5	127.8	74.2	132.3	76.5	135.5	78.3	136.7	78.7
	31	106.3	62.8	119.6	70.6	127.8	75.4	132.3	77.7	135.5	79.4	136.7	79.9
	33	106.3	63.8	119.6	71.7	127.8	76.6	132.3	78.9	135.5	80.7	136.7	81.2
	35	106.3	65.0	119.6	72.9	127.8	77.8	132.3	80.2	135.5	82.0	136.7	82.5
	37	104.3	67.8	116.8	75.8	123.5	79.7	127.8	81.9	131.0	83.4	132.3	83.5
39	102.4	71.9	114.0	79.5	119.2	82.8	123.3	84.7	126.5	86.2	127.9	86.7	
80	25	94.5	53.5	106.3	60.1	113.6	64.0	117.6	66.3	120.4	67.8	121.6	68.1
	27	94.5	54.2	106.3	60.9	113.6	64.9	117.6	67.1	120.4	68.6	121.6	69.0
	29	94.5	55.0	106.3	61.8	113.6	66.0	117.6	68.0	120.4	69.6	121.6	70.0
	31	94.5	55.8	106.3	62.7	113.6	67.0	117.6	69.0	120.4	70.6	121.6	71.0
	33	94.5	56.7	106.3	63.8	113.6	68.1	117.6	70.1	120.4	71.7	121.6	72.1
	35	94.5	57.8	106.3	64.8	113.6	69.2	117.6	71.2	120.4	72.9	121.6	73.3
	37	94.5	60.3	106.3	67.4	113.6	70.8	117.6	72.8	120.4	74.1	121.6	74.2
39	94.5	63.9	106.3	70.6	113.6	73.6	117.6	75.3	120.4	76.6	121.6	77.1	
70	25	82.7	46.8	93.0	52.6	99.4	56.0	102.9	58.0	105.4	59.3	106.4	59.6
	27	82.7	47.4	93.0	53.3	99.4	56.8	102.9	58.7	105.4	60.0	106.4	60.4
	29	82.7	48.1	93.0	54.0	99.4	57.7	102.9	59.5	105.4	60.9	106.4	61.2
	31	82.7	48.9	93.0	54.9	99.4	58.6	102.9	60.4	105.4	61.8	106.4	62.2
	33	82.7	49.6	93.0	55.8	99.4	59.6	102.9	61.4	105.4	62.7	106.4	63.1
	35	82.7	50.6	93.0	56.7	99.4	60.5	102.9	62.3	105.4	63.8	106.4	64.2
	37	82.7	52.7	93.0	59.0	99.4	62.0	102.9	63.7	105.4	64.8	106.4	65.0
39	82.7	55.9	93.0	61.8	99.4	64.4	102.9	65.8	105.4	67.1	106.4	67.5	
60	25	70.9	40.1	79.7	45.1	85.2	48.0	88.2	49.7	90.3	50.8	91.2	51.1
	27	70.9	40.6	79.7	45.7	85.2	48.7	88.2	50.3	90.3	51.4	91.2	51.8
	29	70.9	41.3	79.7	46.3	85.2	49.5	88.2	51.0	90.3	52.2	91.2	52.5
	31	70.9	41.9	79.7	47.1	85.2	50.2	88.2	51.8	90.3	52.9	91.2	53.3
	33	70.9	42.6	79.7	47.8	85.2	51.0	88.2	52.6	90.3	53.8	91.2	54.1
	35	70.9	43.3	79.7	48.6	85.2	51.9	88.2	53.4	90.3	54.7	91.2	55.0
	37	70.9	45.2	79.7	50.5	85.2	53.1	88.2	54.6	90.3	55.6	91.2	55.7
39	70.9	47.9	79.7	53.0	85.2	55.2	88.2	56.4	90.3	57.5	91.2	57.8	

Note
 1. TC : Total capacity(kW), FC : Fuel consumption (kW)
 2. Capacity tables show the average value of conditions which may occur.
 3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp. °C DB	Indoor air temp. (DB/WB, °C)											
		23		26		27		28		30		32	
		16		18		19		20		22		24	
		TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
50	25	59.1	33.4	66.5	37.6	71.0	40.0	73.5	41.4	75.3	42.3	76.0	42.6
	27	59.1	33.9	66.5	38.1	71.0	40.6	73.5	41.9	75.3	42.9	76.0	43.1
	29	59.1	34.4	66.5	38.6	71.0	41.2	73.5	42.5	75.3	43.5	76.0	43.7
	31	59.1	34.9	66.5	39.2	71.0	41.9	73.5	43.1	75.3	44.1	76.0	44.4
	33	59.1	35.5	66.5	39.9	71.0	42.5	73.5	43.8	75.3	44.8	76.0	45.1
	35	59.1	36.1	66.5	40.5	71.0	43.2	73.5	44.5	75.3	45.5	76.0	45.8
	37	59.1	37.7	66.5	42.1	71.0	44.3	73.5	45.5	75.3	46.3	76.0	46.4
	39	59.1	39.9	66.5	44.1	71.0	46.0	73.5	47.0	75.3	47.9	76.0	48.2

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

◆ 56HP

Combination (%)	Outdoor air temp. °C DB	Indoor air temp. (DB/WB, °C)											
		23		26		27		28		30		32	
		16		18		19		20		22		24	
		TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
130	25	147.3	87.9	165.7	98.8	177.1	105.2	183.3	108.9	187.7	111.4	189.5	112.0
	27	147.3	89.5	165.7	100.7	177.1	107.3	183.3	110.9	187.7	113.3	189.5	114.1
	29	147.3	90.9	165.7	102.1	177.1	109.0	183.3	112.4	187.7	114.9	189.5	115.7
	31	147.3	92.3	165.7	103.7	177.1	110.7	183.3	114.1	187.7	116.7	189.5	117.4
	33	147.3	93.8	165.7	105.4	177.1	112.5	183.3	115.9	187.7	118.5	189.5	119.2
	35	147.3	95.5	165.7	107.1	177.1	114.3	183.3	117.7	187.7	120.4	189.5	121.2
	37	144.6	99.6	161.8	111.3	171.1	117.1	177.1	120.3	181.5	122.4	183.3	122.7
39	141.8	105.5	157.9	116.7	165.2	121.6	170.9	124.3	175.3	126.7	177.2	127.4	
120	25	143.7	86.6	161.6	97.4	172.7	103.7	178.7	107.3	183.1	109.8	184.8	110.4
	27	143.7	87.8	161.6	98.7	172.7	105.2	178.7	108.7	183.1	111.1	184.8	111.8
	29	143.7	89.1	161.6	100.1	172.7	106.9	178.7	110.1	183.1	112.7	184.8	113.4
	31	143.7	90.5	161.6	101.6	172.7	108.5	178.7	111.8	183.1	114.4	184.8	115.1
	33	143.7	91.9	161.6	103.3	172.7	110.3	178.7	113.6	183.1	116.2	184.8	116.9
	35	143.7	93.6	161.6	105.0	172.7	112.1	178.7	115.4	183.1	118.1	184.8	118.8
	37	141.0	97.6	157.8	109.2	166.9	114.8	172.7	118.0	177.0	120.0	178.8	120.3
39	138.3	103.5	154.0	114.4	161.1	119.3	166.6	121.9	171.0	124.2	172.9	124.9	
110	25	140.1	85.0	157.6	95.5	168.4	101.7	174.3	105.3	178.5	107.7	180.2	108.3
	27	140.1	86.1	157.6	96.9	168.4	103.2	174.3	106.6	178.5	109.0	180.2	109.7
	29	140.1	87.4	157.6	98.2	168.4	104.8	174.3	108.1	178.5	110.6	180.2	111.3
	31	140.1	88.8	157.6	99.7	168.4	106.5	174.3	109.7	178.5	112.2	180.2	112.9
	33	140.1	90.2	157.6	101.4	168.4	108.2	174.3	111.5	178.5	114.0	180.2	114.7
	35	140.1	91.8	157.6	103.0	168.4	110.0	174.3	113.2	178.5	115.8	180.2	116.5
	37	137.5	95.8	153.9	107.1	162.8	112.6	168.4	115.8	172.6	117.8	174.4	118.0
39	134.9	101.5	150.2	112.2	157.1	117.0	162.5	119.6	166.7	121.8	168.6	122.6	
100	25	136.4	83.3	153.5	93.7	164.0	99.7	169.7	103.3	173.8	105.6	175.5	106.2
	27	136.4	84.4	153.5	95.0	164.0	101.2	169.7	104.5	173.8	106.9	175.5	107.6
	29	136.4	85.7	153.5	96.2	164.0	102.8	169.7	105.9	173.8	108.4	175.5	109.1
	31	136.4	87.0	153.5	97.8	164.0	104.4	169.7	107.6	173.8	110.0	175.5	110.7
	33	136.4	88.4	153.5	99.4	164.0	106.1	169.7	109.3	173.8	111.7	175.5	112.4
	35	136.4	90.0	153.5	101.0	164.0	107.8	169.7	111.0	173.8	113.6	175.5	114.2
	37	133.9	93.9	149.9	105.0	158.5	110.4	164.0	113.5	168.1	115.5	169.8	115.7
39	131.4	99.5	146.3	110.0	153.0	114.7	158.3	117.3	162.4	119.4	164.2	120.1	
90	25	122.8	69.0	138.2	77.5	147.6	82.6	152.8	85.5	156.5	87.4	157.9	87.9
	27	122.8	69.9	138.2	78.6	147.6	83.8	152.8	86.6	156.5	88.5	157.9	89.1
	29	122.8	71.0	138.2	79.7	147.6	85.1	152.8	87.7	156.5	89.7	157.9	90.3
	31	122.8	72.0	138.2	80.9	147.6	86.4	152.8	89.1	156.5	91.1	157.9	91.6
	33	122.8	73.2	138.2	82.3	147.6	87.8	152.8	90.5	156.5	92.5	157.9	93.1
	35	122.8	74.5	138.2	83.6	147.6	89.3	152.8	91.9	156.5	94.0	157.9	94.6
	37	120.5	77.8	134.9	86.9	142.7	91.4	147.6	94.0	151.3	95.6	152.8	95.8
39	118.2	82.4	131.7	91.1	137.7	95.0	142.4	97.1	146.1	98.9	147.7	99.5	
80	25	109.2	61.3	122.8	68.9	131.2	73.4	135.8	76.0	139.1	77.7	140.4	78.1
	27	109.2	62.1	122.8	69.9	131.2	74.5	135.8	76.9	139.1	78.7	140.4	79.2
	29	109.2	63.1	122.8	70.8	131.2	75.6	135.8	78.0	139.1	79.8	140.4	80.3
	31	109.2	64.0	122.8	71.9	131.2	76.8	135.8	79.2	139.1	81.0	140.4	81.5
	33	109.2	65.1	122.8	73.1	131.2	78.1	135.8	80.4	139.1	82.2	140.4	82.7
	35	109.2	66.3	122.8	74.3	131.2	79.3	135.8	81.7	139.1	83.6	140.4	84.1
	37	109.2	69.1	122.8	77.3	131.2	81.2	135.8	83.5	139.1	85.0	140.4	85.1
39	109.2	73.2	122.8	81.0	131.2	84.4	135.8	86.3	139.1	87.9	140.4	88.4	
70	25	95.5	53.7	107.5	60.3	114.8	64.2	118.8	66.5	121.7	68.0	122.8	68.4
	27	95.5	54.4	107.5	61.1	114.8	65.2	118.8	67.3	121.7	68.8	122.8	69.3
	29	95.5	55.2	107.5	62.0	114.8	66.2	118.8	68.2	121.7	69.8	122.8	70.2
	31	95.5	56.0	107.5	63.0	114.8	67.2	118.8	69.3	121.7	70.8	122.8	71.3
	33	95.5	56.9	107.5	64.0	114.8	68.3	118.8	70.4	121.7	72.0	122.8	72.4
	35	95.5	58.0	107.5	65.0	114.8	69.4	118.8	71.5	121.7	73.1	122.8	73.6
	37	95.5	60.5	107.5	67.6	114.8	71.1	118.8	73.1	121.7	74.4	122.8	74.5
39	95.5	64.1	107.5	70.9	114.8	73.9	118.8	75.5	121.7	76.9	122.8	77.4	
60	25	81.9	46.0	92.1	51.7	98.4	55.0	101.8	57.0	104.3	58.3	105.3	58.6
	27	81.9	46.6	92.1	52.4	98.4	55.9	101.8	57.7	104.3	59.0	105.3	59.4
	29	81.9	47.3	92.1	53.1	98.4	56.7	101.8	58.5	104.3	59.8	105.3	60.2
	31	81.9	48.0	92.1	54.0	98.4	57.6	101.8	59.4	104.3	60.7	105.3	61.1
	33	81.9	48.8	92.1	54.9	98.4	58.5	101.8	60.3	104.3	61.7	105.3	62.1
	35	81.9	49.7	92.1	55.7	98.4	59.5	101.8	61.3	104.3	62.7	105.3	63.1
	37	81.9	51.8	92.1	58.0	98.4	60.9	101.8	62.6	104.3	63.7	105.3	63.8
39	81.9	54.9	92.1	60.7	98.4	63.3	101.8	64.7	104.3	65.9	105.3	66.3	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp. °C DB	Indoor air temp. (DB/WB, °C)											
		23		26		27		28		30		32	
		16		18		19		20		22		24	
		TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
50	25	68.2	38.3	76.8	43.1	82.0	45.9	84.9	47.5	86.9	48.6	87.7	48.8
	27	68.2	38.8	76.8	43.7	82.0	46.5	84.9	48.1	86.9	49.2	87.7	49.5
	29	68.2	39.4	76.8	44.3	82.0	47.3	84.9	48.7	86.9	49.9	87.7	50.2
	31	68.2	40.0	76.8	45.0	82.0	48.0	84.9	49.5	86.9	50.6	87.7	50.9
	33	68.2	40.7	76.8	45.7	82.0	48.8	84.9	50.3	86.9	51.4	87.7	51.7
	35	68.2	41.4	76.8	46.5	82.0	49.6	84.9	51.1	86.9	52.2	87.7	52.6
	37	68.2	43.2	76.8	48.3	82.0	50.8	84.9	52.2	86.9	53.1	87.7	53.2
	39	68.2	45.8	76.8	50.6	82.0	52.8	84.9	53.9	86.9	54.9	87.7	55.3

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

◆ 60HP

Combi- nation (%)	Outdoor air temp. °C DB	Indoor air temp. (DB/WB, °C)											
		23		26		27		28		30		32	
		16		18		19		20		22		24	
		TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
130	25	152.7	92.7	171.8	104.1	183.5	110.9	190.0	114.8	194.6	117.4	196.4	118.0
	27	152.7	94.3	171.8	106.1	183.5	113.1	190.0	116.8	194.6	119.4	196.4	120.2
	29	152.7	95.8	171.8	107.6	183.5	114.9	190.0	118.4	194.6	121.1	196.4	121.9
	31	152.7	97.2	171.8	109.2	183.5	116.7	190.0	120.2	194.6	122.9	196.4	123.7
	33	152.7	98.8	171.8	111.1	183.5	118.5	190.0	122.1	194.6	124.9	196.4	125.6
	35	152.7	100.6	171.8	112.9	183.5	120.5	190.0	124.1	194.6	126.9	196.4	127.7
	37	149.9	105.0	167.8	117.3	177.4	123.4	183.5	126.8	188.1	129.0	190.1	129.3
120	25	147.0	111.2	163.7	123.0	171.2	128.2	177.1	131.0	181.7	133.5	183.7	134.3
	27	148.9	91.3	167.6	102.6	179.0	109.2	185.3	113.1	189.8	115.7	191.5	116.3
	29	148.9	92.5	167.6	104.0	179.0	110.9	185.3	114.5	189.8	117.1	191.5	117.8
	31	148.9	93.9	167.6	105.4	179.0	112.6	185.3	116.1	189.8	118.7	191.5	119.5
	33	148.9	95.3	167.6	107.1	179.0	114.4	185.3	117.8	189.8	120.5	191.5	121.3
	35	148.9	96.9	167.6	108.9	179.0	116.2	185.3	119.7	189.8	122.4	191.5	123.2
	37	146.2	102.9	163.6	115.0	173.0	120.9	179.0	124.3	183.5	126.5	185.4	126.7
110	25	143.4	109.0	159.7	120.6	167.0	125.7	172.7	128.5	177.2	130.8	179.2	131.6
	27	145.2	89.6	163.4	100.7	174.6	107.2	180.7	111.0	185.0	113.5	186.8	114.1
	29	145.2	90.7	163.4	102.1	174.6	108.8	180.7	112.4	185.0	114.9	186.8	115.6
	31	145.2	92.1	163.4	103.5	174.6	110.5	180.7	113.9	185.0	116.5	186.8	117.2
	33	145.2	93.5	163.4	105.1	174.6	112.2	180.7	115.6	185.0	118.2	186.8	119.0
	35	145.2	95.0	163.4	106.8	174.6	114.0	180.7	117.5	185.0	120.1	186.8	120.8
	37	142.5	98.6	163.4	108.6	174.6	115.9	180.7	119.3	185.0	122.1	186.8	122.8
100	25	142.5	101.0	159.6	112.9	168.7	118.7	174.6	122.0	178.9	124.1	180.8	124.3
	27	139.8	107.0	155.7	118.3	162.9	123.3	168.5	126.0	172.8	128.4	174.7	129.1
	29	141.4	87.8	159.1	98.7	170.0	105.1	176.0	108.8	180.2	111.3	181.9	111.9
	31	141.4	89.0	159.1	100.1	170.0	106.6	176.0	110.2	180.2	112.6	181.9	113.3
	33	141.4	90.3	159.1	101.4	170.0	108.3	176.0	111.6	180.2	114.2	181.9	114.9
	35	141.4	91.7	159.1	103.0	170.0	110.0	176.0	113.3	180.2	115.9	181.9	116.6
	37	141.4	93.2	159.1	104.7	170.0	111.8	176.0	115.2	180.2	117.7	181.9	118.5
90	25	138.8	99.0	155.4	110.6	164.3	116.3	170.0	119.6	174.3	121.7	176.0	121.9
	27	136.2	104.9	151.6	116.0	158.6	120.9	164.1	123.6	168.3	125.9	170.2	126.6
	29	127.3	72.7	143.2	81.7	153.0	87.0	158.4	90.1	162.2	92.1	163.7	92.6
	31	127.3	73.7	143.2	82.8	153.0	88.3	158.4	91.2	162.2	93.3	163.7	93.9
	33	127.3	74.8	143.2	84.0	153.0	89.7	158.4	92.4	162.2	94.6	163.7	95.2
	35	127.3	75.9	143.2	85.3	153.0	91.1	158.4	93.9	162.2	96.0	163.7	96.6
	37	127.3	77.1	143.2	86.7	153.0	92.5	158.4	95.4	162.2	97.5	163.7	98.1
80	25	127.3	78.6	143.2	88.1	153.0	94.1	158.4	96.9	162.2	99.1	163.7	99.7
	27	124.9	81.9	139.8	91.6	147.9	96.3	153.0	99.0	156.8	100.7	158.4	100.9
	29	122.6	86.8	136.5	96.0	142.7	100.1	147.6	102.3	151.5	104.2	153.2	104.8
	31	113.2	64.6	127.3	72.6	136.0	77.3	140.8	80.1	144.2	81.9	145.5	82.3
	33	113.2	65.5	127.3	73.6	136.0	78.5	140.8	81.1	144.2	82.9	145.5	83.4
	35	113.2	66.5	127.3	74.6	136.0	79.7	140.8	82.2	144.2	84.1	145.5	84.6
	37	113.2	67.5	127.3	75.8	136.0	81.0	140.8	83.4	144.2	85.3	145.5	85.8
70	25	113.2	68.6	127.3	77.1	136.0	82.3	140.8	84.8	144.2	86.7	145.5	87.2
	27	113.2	69.8	127.3	78.3	136.0	83.6	140.8	86.1	144.2	88.1	145.5	88.6
	29	113.2	72.8	127.3	81.4	136.0	85.6	140.8	88.0	144.2	89.5	145.5	89.7
	31	113.2	77.2	127.3	85.4	136.0	89.0	140.8	90.9	144.2	92.6	145.5	93.2
	33	99.0	56.6	111.4	63.6	119.0	67.7	123.2	70.1	126.1	71.7	127.3	72.0
	35	99.0	57.3	111.4	64.4	119.0	68.7	123.2	70.9	126.1	72.5	127.3	73.0
	37	99.0	58.2	111.4	65.3	119.0	69.7	123.2	71.9	126.1	73.6	127.3	74.0
60	25	99.0	59.0	111.4	66.3	119.0	70.8	123.2	73.0	126.1	74.7	127.3	75.1
	27	99.0	60.0	111.4	67.4	119.0	72.0	123.2	74.2	126.1	75.8	127.3	76.3
	29	99.0	61.1	111.4	68.5	119.0	73.2	123.2	75.3	126.1	77.1	127.3	77.5
	31	99.0	63.7	111.4	71.2	119.0	74.9	123.2	77.0	126.1	78.4	127.3	78.5
	33	99.0	67.5	111.4	74.7	119.0	77.8	123.2	79.6	126.1	81.0	127.3	81.5
	35	84.9	48.5	95.5	54.5	102.0	58.0	105.6	60.1	108.1	61.4	109.1	61.8
	37	84.9	49.1	95.5	55.2	102.0	58.9	105.6	60.8	108.1	62.2	109.1	62.6

Note

- 1. TC : Total capacity(kW), FC : Fuel consumption (kW)
- 2. Capacity tables show the average value of conditions which may occur.
- 3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combination (%)	Outdoor air temp. °C DB	Indoor air temp. (DB/WB, °C)											
		23		26		27		28		30		32	
		16		18		19		20		22		24	
		TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
50	25	70.7	40.4	79.6	45.4	85.0	48.3	88.0	50.1	90.1	51.2	91.0	51.5
	27	70.7	40.9	79.6	46.0	85.0	49.0	88.0	50.7	90.1	51.8	91.0	52.1
	29	70.7	41.5	79.6	46.7	85.0	49.8	88.0	51.4	90.1	52.5	91.0	52.9
	31	70.7	42.2	79.6	47.4	85.0	50.6	88.0	52.1	90.1	53.3	91.0	53.7
	33	70.7	42.9	79.6	48.2	85.0	51.4	88.0	53.0	90.1	54.2	91.0	54.5
	35	70.7	43.6	79.6	49.0	85.0	52.3	88.0	53.8	90.1	55.0	91.0	55.4
	37	70.7	45.5	79.6	50.9	85.0	53.5	88.0	55.0	90.1	56.0	91.0	56.1
	39	70.7	48.2	79.6	53.3	85.0	55.6	88.0	56.8	90.1	57.9	91.0	58.2

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

◆ 64HP

Combination (%)	Outdoor air temp. °C DB	Indoor air temp. (DB/WB, °C)											
		23		26		27		28		30		32	
		16		18		19		20		22		24	
		TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
130	25	161.7	97.9	181.9	110.0	194.3	117.1	201.1	121.3	206.0	124.0	207.9	124.7
	27	161.7	99.7	181.9	112.1	194.3	119.4	201.1	123.4	206.0	126.2	207.9	127.0
	29	161.7	101.2	181.9	113.6	194.3	121.3	201.1	125.1	206.0	127.9	207.9	128.8
	31	161.7	102.7	181.9	115.4	194.3	123.2	201.1	127.0	206.0	129.9	207.9	130.7
	33	161.7	104.4	181.9	117.3	194.3	125.2	201.1	129.0	206.0	131.9	207.9	132.7
	35	161.7	106.3	181.9	119.2	194.3	127.3	201.1	131.1	206.0	134.1	207.9	134.9
	37	158.7	110.9	177.6	123.9	187.8	130.3	194.3	134.0	199.2	136.3	201.2	136.5
39	155.7	117.5	173.3	129.9	181.3	135.4	187.5	138.4	192.4	141.0	194.5	141.8	
120	25	157.7	96.5	177.4	108.4	189.5	115.4	196.2	119.5	200.9	122.2	202.8	122.9
	27	157.7	97.7	177.4	109.9	189.5	117.1	196.2	121.0	200.9	123.7	202.8	124.5
	29	157.7	99.2	177.4	111.4	189.5	118.9	196.2	122.6	200.9	125.4	202.8	126.2
	31	157.7	100.7	177.4	113.1	189.5	120.8	196.2	124.5	200.9	127.3	202.8	128.1
	33	157.7	102.3	177.4	115.0	189.5	122.7	196.2	126.5	200.9	129.3	202.8	130.1
	35	157.7	104.2	177.4	116.9	189.5	124.8	196.2	128.5	200.9	131.4	202.8	132.2
	37	154.8	108.7	173.2	121.5	183.2	127.8	189.5	131.3	194.3	133.6	196.3	133.9
39	151.8	115.2	169.1	127.4	176.8	132.7	182.9	135.7	187.6	138.2	189.7	139.1	
110	25	153.8	94.6	173.0	106.3	184.8	113.2	191.3	117.2	195.9	119.9	197.8	120.5
	27	153.8	95.9	173.0	107.8	184.8	114.9	191.3	118.7	195.9	121.4	197.8	122.1
	29	153.8	97.3	173.0	109.3	184.8	116.7	191.3	120.3	195.9	123.1	197.8	123.8
	31	153.8	98.8	173.0	111.0	184.8	118.5	191.3	122.1	195.9	124.9	197.8	125.7
	33	153.8	100.4	173.0	112.8	184.8	120.4	191.3	124.1	195.9	126.9	197.8	127.6
	35	153.8	102.2	173.0	114.7	184.8	122.4	191.3	126.1	195.9	128.9	197.8	129.7
	37	150.9	106.6	168.9	119.2	178.6	125.3	184.8	128.9	189.5	131.1	191.4	131.3
39	148.1	113.0	164.9	125.0	172.4	130.2	178.4	133.1	183.0	135.6	185.0	136.4	
100	25	149.8	92.8	168.5	104.3	180.0	111.0	186.3	114.9	190.8	117.5	192.6	118.2
	27	149.8	94.0	168.5	105.7	180.0	112.6	186.3	116.4	190.8	119.0	192.6	119.7
	29	149.8	95.4	168.5	107.1	180.0	114.4	186.3	117.9	190.8	120.6	192.6	121.4
	31	149.8	96.9	168.5	108.8	180.0	116.2	186.3	119.7	190.8	122.4	192.6	123.2
	33	149.8	98.4	168.5	110.6	180.0	118.1	186.3	121.7	190.8	124.4	192.6	125.1
	35	149.8	100.2	168.5	112.4	180.0	120.0	186.3	123.6	190.8	126.4	192.6	127.2
	37	147.0	104.5	164.5	116.9	174.0	122.9	180.0	126.3	184.5	128.5	186.4	128.8
39	144.2	110.8	160.6	122.5	167.9	127.7	173.7	130.5	178.2	132.9	180.2	133.7	
90	25	134.8	76.8	151.6	86.3	162.0	91.9	167.7	95.2	171.7	97.3	173.3	97.8
	27	134.8	77.8	151.6	87.5	162.0	93.3	167.7	96.4	171.7	98.5	173.3	99.1
	29	134.8	79.0	151.6	88.7	162.0	94.7	167.7	97.7	171.7	99.9	173.3	100.5
	31	134.8	80.2	151.6	90.1	162.0	96.2	167.7	99.1	171.7	101.4	173.3	102.0
	33	134.8	81.5	151.6	91.6	162.0	97.8	167.7	100.7	171.7	103.0	173.3	103.6
	35	134.8	83.0	151.6	93.1	162.0	99.4	167.7	102.3	171.7	104.7	173.3	105.3
	37	132.3	86.6	148.1	96.8	156.6	101.7	162.0	104.6	166.1	106.4	167.8	106.6
39	129.8	91.7	144.5	101.4	151.1	105.7	156.3	108.1	160.4	110.1	162.2	110.7	
80	25	119.8	68.3	134.8	76.7	144.0	81.7	149.0	84.6	152.6	86.5	154.1	87.0
	27	119.8	69.2	134.8	77.8	144.0	82.9	149.0	85.7	152.6	87.6	154.1	88.1
	29	119.8	70.2	134.8	78.9	144.0	84.2	149.0	86.8	152.6	88.8	154.1	89.4
	31	119.8	71.3	134.8	80.1	144.0	85.5	149.0	88.1	152.6	90.1	154.1	90.7
	33	119.8	72.4	134.8	81.4	144.0	86.9	149.0	89.5	152.6	91.5	154.1	92.1
	35	119.8	73.8	134.8	82.7	144.0	88.3	149.0	91.0	152.6	93.0	154.1	93.6
	37	119.8	76.9	134.8	86.0	144.0	90.4	149.0	93.0	152.6	94.6	154.1	94.8
39	119.8	81.5	134.8	90.2	144.0	94.0	149.0	96.1	152.6	97.8	154.1	98.4	
70	25	104.8	59.7	117.9	67.1	126.0	71.5	130.4	74.0	133.6	75.7	134.8	76.1
	27	104.8	60.5	117.9	68.1	126.0	72.5	130.4	74.9	133.6	76.6	134.8	77.1
	29	104.8	61.4	117.9	69.0	126.0	73.7	130.4	76.0	133.6	77.7	134.8	78.2
	31	104.8	62.4	117.9	70.1	126.0	74.8	130.4	77.1	133.6	78.9	134.8	79.4
	33	104.8	63.4	117.9	71.2	126.0	76.0	130.4	78.3	133.6	80.1	134.8	80.6
	35	104.8	64.5	117.9	72.4	126.0	77.3	130.4	79.6	133.6	81.4	134.8	81.9
	37	104.8	67.3	117.9	75.3	126.0	79.1	130.4	81.4	133.6	82.8	134.8	82.9
39	104.8	71.3	117.9	78.9	126.0	82.2	130.4	84.1	133.6	85.6	134.8	86.1	
60	25	89.9	51.2	101.1	57.5	108.0	61.3	111.8	63.4	114.5	64.9	115.6	65.2
	27	89.9	51.9	101.1	58.3	108.0	62.2	111.8	64.2	114.5	65.7	115.6	66.1
	29	89.9	52.7	101.1	59.1	108.0	63.2	111.8	65.1	114.5	66.6	115.6	67.0
	31	89.9	53.5	101.1	60.1	108.0	64.1	111.8	66.1	114.5	67.6	115.6	68.0
	33	89.9	54.3	101.1	61.1	108.0	65.2	111.8	67.2	114.5	68.7	115.6	69.1
	35	89.9	55.3	101.1	62.1	108.0	66.2	111.8	68.2	114.5	69.8	115.6	70.2
	37	89.9	57.7	101.1	64.5	108.0	67.8	111.8	69.7	114.5	70.9	115.6	71.1
39	89.9	61.2	101.1	67.6	108.0	70.5	111.8	72.0	114.5	73.4	115.6	73.8	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combination (%)	Outdoor air temp. °C DB	Indoor air temp. (DB/WB, °C)											
		23		26		27		28		30		32	
		16		18		19		20		22		24	
		TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
50	25	74.9	42.7	84.2	48.0	90.0	51.1	93.2	52.9	95.4	54.1	96.3	54.4
	27	74.9	43.2	84.2	48.6	90.0	51.8	93.2	53.5	95.4	54.7	96.3	55.1
	29	74.9	43.9	84.2	49.3	90.0	52.6	93.2	54.3	95.4	55.5	96.3	55.9
	31	74.9	44.6	84.2	50.1	90.0	53.5	93.2	55.1	95.4	56.3	96.3	56.7
	33	74.9	45.3	84.2	50.9	90.0	54.3	93.2	56.0	95.4	57.2	96.3	57.6
	35	74.9	46.1	84.2	51.7	90.0	55.2	93.2	56.8	95.4	58.1	96.3	58.5
	37	74.9	48.1	84.2	53.8	90.0	56.5	93.2	58.1	95.4	59.1	96.3	59.2
	39	74.9	51.0	84.2	56.3	90.0	58.7	93.2	60.0	95.4	61.2	96.3	61.5

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

8.2 Heating Capacity

◆ 16HP

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
130	-19.8	-20	46.9	41.8	46.6	41.7	46.6	41.3	45.8	41.3	43.7	40.9
	-18.8	-19	46.9	41.8	46.6	41.7	46.6	41.3	45.8	41.3	43.7	40.9
	-16.7	-17	46.9	41.8	46.6	41.6	46.6	41.3	45.8	41.2	43.7	40.9
	-13.7	-15	46.9	41.8	46.6	41.6	46.6	41.3	45.8	41.2	43.7	40.9
	-11.8	-13	46.9	41.7	46.6	41.6	46.6	41.2	45.8	41.2	43.7	40.9
	-9.8	-11	46.9	41.7	46.6	41.6	46.6	41.2	45.8	41.1	43.7	40.9
	-9.5	-10	46.9	41.7	46.6	41.6	46.6	41.2	45.8	41.2	43.7	40.9
	-8.5	-9.1	46.9	41.7	46.6	41.6	46.6	41.2	45.8	41.1	43.7	40.9
	-7.0	-7.6	46.9	41.7	46.6	41.5	46.6	41.2	45.8	41.1	43.7	40.8
	-5.0	-5.6	46.9	41.6	46.6	41.5	46.6	41.1	45.8	41.1	43.7	40.8
	-3.0	-3.7	46.9	40.7	46.6	40.6	46.6	40.2	45.8	40.1	43.7	39.9
	0.0	-0.7	46.9	37.0	46.6	36.6	46.6	36.6	45.8	36.0	43.7	36.4
	3.0	2.2	58.8	33.9	56.6	32.5	53.9	31.6	50.5	31.0	47.0	30.7
	5.0	4.1	58.8	31.7	56.6	30.5	53.9	29.3	50.5	28.8	47.0	28.5
7.0	6.0	58.8	30.8	56.6	29.6	53.9	28.4	50.5	27.9	47.0	27.7	
9.0	7.9	60.3	30.4	58.1	29.2	55.4	28.0	51.8	27.5	48.3	27.2	
11.0	9.8	60.7	30.1	58.5	28.7	55.7	27.7	52.2	27.3	48.6	27.0	
13.0	11.8	61.1	29.8	58.9	28.6	56.1	27.6	52.5	27.1	48.9	26.8	
120	-19.8	-20	45.4	41.3	45.2	41.1	45.1	40.8	44.4	40.7	42.3	40.4
	-18.8	-19	45.4	41.2	45.2	41.1	45.1	40.7	44.4	40.7	42.3	40.3
	-16.7	-17	45.4	41.2	45.2	41.1	45.1	40.7	44.4	40.7	42.3	40.3
	-13.7	-15	45.4	41.2	45.2	41.0	45.1	40.7	44.4	40.6	42.3	40.3
	-11.8	-13	45.4	41.2	45.2	41.0	45.1	40.7	44.4	40.6	42.3	40.3
	-9.8	-11	45.4	41.1	45.2	41.0	45.1	40.6	44.4	40.6	42.3	40.3
	-9.5	-10	45.4	41.1	45.2	41.0	45.1	40.6	44.4	40.6	42.3	40.3
	-8.5	-9.1	45.4	41.1	45.2	41.0	45.1	40.6	44.4	40.6	42.3	40.3
	-7.0	-7.6	45.4	41.1	45.2	40.9	45.1	40.6	44.4	40.5	42.3	40.3
	-5.0	-5.6	45.4	41.0	45.2	40.9	45.1	40.6	44.4	40.5	42.3	40.3
	-3.0	-3.7	45.4	40.1	45.2	40.0	45.1	39.7	44.4	39.6	42.3	39.3
	0.0	-0.7	45.4	36.4	45.2	36.1	45.1	36.1	44.4	35.5	42.3	35.9
	3.0	2.2	56.9	33.4	54.8	32.0	52.2	31.1	48.9	30.6	45.5	30.2
	5.0	4.1	56.9	31.3	54.8	30.1	52.2	28.9	48.9	28.4	45.5	28.1
7.0	6.0	56.9	30.4	54.8	29.2	52.2	28.1	48.9	27.5	45.5	27.3	
9.0	7.9	58.1	30.0	56.0	28.8	53.3	27.6	49.9	27.1	46.5	26.8	
11.0	9.8	58.5	29.7	56.3	28.3	53.6	27.4	50.2	26.9	46.8	26.6	
13.0	11.8	58.8	29.4	56.7	28.2	54.0	27.2	50.5	26.7	47.1	26.4	
110	-19.8	-20	44.0	40.7	43.8	40.5	43.7	40.2	43.0	40.1	41.0	39.8
	-18.8	-19	44.0	40.7	43.8	40.5	43.7	40.2	43.0	40.1	41.0	39.8
	-16.7	-17	44.0	40.6	43.8	40.5	43.7	40.2	43.0	40.1	41.0	39.8
	-13.7	-15	44.0	40.6	43.8	40.5	43.7	40.1	43.0	40.1	41.0	39.8
	-11.8	-13	44.0	40.6	43.8	40.5	43.7	40.1	43.0	40.0	41.0	39.8
	-9.8	-11	44.0	40.6	43.8	40.4	43.7	40.1	43.0	40.0	41.0	39.8
	-9.5	-10	44.0	40.6	43.8	40.4	43.7	40.1	43.0	40.0	41.0	39.7
	-8.5	-9.1	44.0	40.5	43.8	40.4	43.7	40.1	43.0	40.0	41.0	39.7
	-7.0	-7.6	44.0	40.5	43.8	40.4	43.7	40.0	43.0	40.0	41.0	39.7
	-5.0	-5.6	44.0	40.5	43.8	40.3	43.7	40.0	43.0	40.0	41.0	39.7
	-3.0	-3.7	44.0	39.6	43.8	39.5	43.7	39.1	43.0	39.0	41.0	38.8
	0.0	-0.7	44.0	35.9	43.8	35.6	43.7	35.6	43.0	35.0	41.0	35.4
	3.0	2.2	55.2	32.9	53.2	31.6	50.6	30.7	47.4	30.1	44.1	29.8
	5.0	4.1	55.2	30.9	53.2	29.6	50.6	28.5	47.4	28.0	44.1	27.7
7.0	6.0	55.2	30.0	53.2	28.8	50.6	27.7	47.4	27.2	44.1	26.9	
9.0	7.9	55.9	29.6	53.9	28.4	51.3	27.2	48.0	26.7	44.7	26.5	
11.0	9.8	56.3	29.3	54.2	27.9	51.7	27.0	48.3	26.5	45.0	26.2	
13.0	11.8	56.7	29.0	54.6	27.8	52.0	26.8	48.7	26.3	45.3	26.1	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
100	-19.8	-20	43.5	40.1	43.3	40.0	43.2	39.6	42.5	39.6	40.5	39.2
	-18.8	-19	43.5	40.1	43.3	39.9	43.2	39.6	42.5	39.5	40.5	39.2
	-16.7	-17	43.5	40.1	43.3	39.9	43.2	39.6	42.5	39.5	40.5	39.2
	-13.7	-15	43.5	40.0	43.3	39.9	43.2	39.6	42.5	39.5	40.5	39.2
	-11.8	-13	43.5	40.0	43.3	39.9	43.2	39.5	42.5	39.5	40.5	39.2
	-9.8	-11	43.5	40.0	43.3	39.9	43.2	39.5	42.5	39.4	40.5	39.2
	-9.5	-10	43.5	40.0	43.3	39.8	43.2	39.5	42.5	39.5	40.5	39.2
	-8.5	-9.1	43.5	40.0	43.3	39.8	43.2	39.5	42.5	39.4	40.5	39.2
	-7.0	-7.6	43.5	39.9	43.3	39.8	43.2	39.5	42.5	39.4	40.5	39.2
	-5.0	-5.6	43.5	39.9	43.3	39.8	43.2	39.4	42.5	39.4	40.5	39.1
	-3.0	-3.7	43.5	39.0	43.3	38.9	43.2	38.6	42.5	38.5	40.5	38.2
	0.0	-0.7	43.5	35.4	43.3	35.1	43.2	35.1	42.5	34.5	40.5	34.9
	3.0	2.2	54.5	32.5	52.5	31.1	50.0	30.2	46.8	29.7	43.6	29.4
	5.0	4.1	54.5	30.4	52.5	29.2	50.0	28.1	46.8	27.6	43.6	27.3
7.0	6.0	54.5	29.6	52.5	28.4	50.0	27.0	46.8	26.8	43.6	26.5	
9.0	7.9	54.5	29.1	52.5	28.0	50.0	26.8	46.8	26.4	43.6	26.1	
11.0	9.8	54.5	28.8	52.5	27.5	50.0	26.6	46.8	26.1	43.6	25.8	
13.0	11.8	54.5	28.6	52.5	27.4	50.0	26.4	46.8	25.9	43.6	25.7	
90	-19.8	-20	39.2	36.6	38.9	36.7	38.9	35.7	38.3	35.1	36.5	33.6
	-18.8	-19	39.2	36.5	38.9	36.6	38.9	35.6	38.3	35.1	36.5	33.6
	-16.7	-17	39.2	36.5	38.9	36.6	38.9	35.6	38.3	35.1	36.5	33.6
	-13.7	-15	39.2	36.5	38.9	36.6	38.9	35.6	38.3	35.0	36.5	33.6
	-11.8	-13	39.2	36.5	38.9	36.6	38.9	35.6	38.3	35.0	36.5	33.6
	-9.8	-11	39.2	36.4	38.9	36.6	38.9	35.6	38.3	35.0	36.5	33.6
	-9.5	-10	39.2	36.4	38.9	36.6	38.9	35.6	38.3	35.0	36.5	33.5
	-8.5	-9.1	39.2	36.4	38.9	36.5	38.9	35.5	38.3	35.0	36.5	33.5
	-7.0	-7.6	39.2	36.4	38.9	36.5	38.9	35.5	38.3	35.0	36.5	33.5
	-5.0	-5.6	39.2	36.4	38.9	36.5	38.9	35.5	38.3	34.9	36.5	33.5
	-3.0	-3.7	39.2	35.6	38.9	35.7	38.9	34.7	38.3	34.1	36.5	32.7
	0.0	-0.7	39.2	32.3	38.9	32.2	38.9	31.6	38.3	30.6	36.5	29.9
	3.0	2.2	49.1	29.6	47.3	28.6	45.0	27.2	42.1	26.4	39.2	25.2
	5.0	4.1	49.1	27.7	47.3	26.8	45.0	25.3	42.1	24.5	39.2	23.4
7.0	6.0	49.1	27.0	47.3	26.0	45.0	24.5	42.1	23.8	39.2	22.7	
9.0	7.9	49.1	26.6	47.3	25.7	45.0	24.2	42.1	23.4	39.2	22.3	
11.0	9.8	49.1	26.3	47.3	25.3	45.0	23.9	42.1	23.2	39.2	22.1	
13.0	11.8	49.1	26.0	47.3	25.1	45.0	23.8	42.1	23.0	39.2	22.0	
80	-19.8	-20	34.8	32.5	34.6	32.6	34.6	31.7	34.0	31.2	32.4	29.8
	-18.8	-19	34.8	32.5	34.6	32.6	34.6	31.7	34.0	31.2	32.4	29.8
	-16.7	-17	34.8	32.5	34.6	32.6	34.6	31.7	34.0	31.2	32.4	29.8
	-13.7	-15	34.8	32.4	34.6	32.5	34.6	31.6	34.0	31.2	32.4	29.8
	-11.8	-13	34.8	32.4	34.6	32.5	34.6	31.6	34.0	31.1	32.4	29.8
	-9.8	-11	34.8	32.4	34.6	32.5	34.6	31.6	34.0	31.1	32.4	29.8
	-9.5	-10	34.8	32.4	34.6	32.5	34.6	31.6	34.0	31.1	32.4	29.8
	-8.5	-9.1	34.8	32.4	34.6	32.5	34.6	31.6	34.0	31.1	32.4	29.8
	-7.0	-7.6	34.8	32.4	34.6	32.5	34.6	31.6	34.0	31.1	32.4	29.8
	-5.0	-5.6	34.8	32.3	34.6	32.4	34.6	31.6	34.0	31.1	32.4	29.8
	-3.0	-3.7	34.8	31.6	34.6	31.7	34.6	30.9	34.0	30.3	32.4	29.1
	0.0	-0.7	34.8	28.7	34.6	28.6	34.6	28.1	34.0	27.2	32.4	26.6
	3.0	2.2	43.6	26.3	42.0	25.4	40.0	24.2	37.4	23.4	34.9	22.4
	5.0	4.1	43.6	24.7	42.0	23.8	40.0	22.5	37.4	21.8	34.9	20.8
7.0	6.0	43.6	24.0	42.0	23.1	40.0	21.8	37.4	21.1	34.9	20.2	
9.0	7.9	43.6	23.6	42.0	22.8	40.0	21.5	37.4	20.8	34.9	19.9	
11.0	9.8	43.6	23.4	42.0	22.5	40.0	21.3	37.4	20.6	34.9	19.7	
13.0	11.8	43.6	23.1	42.0	22.3	40.0	21.1	37.4	20.5	34.9	19.6	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
70	-19.8	-20	30.5	28.4	30.3	28.5	30.2	27.7	29.8	27.3	28.4	26.1
	-18.8	-19	30.5	28.4	30.3	28.5	30.2	27.7	29.8	27.3	28.4	26.1
	-16.7	-17	30.5	28.4	30.3	28.5	30.2	27.7	29.8	27.3	28.4	26.1
	-13.7	-15	30.5	28.4	30.3	28.5	30.2	27.7	29.8	27.3	28.4	26.1
	-11.8	-13	30.5	28.4	30.3	28.5	30.2	27.7	29.8	27.2	28.4	26.1
	-9.8	-11	30.5	28.3	30.3	28.4	30.2	27.7	29.8	27.2	28.4	26.1
	-9.5	-10	30.5	28.3	30.3	28.4	30.2	27.7	29.8	27.2	28.4	26.1
	-8.5	-9.1	30.5	28.3	30.3	28.4	30.2	27.6	29.8	27.2	28.4	26.1
	-7.0	-7.6	30.5	28.3	30.3	28.4	30.2	27.6	29.8	27.2	28.4	26.1
	-5.0	-5.6	30.5	28.3	30.3	28.4	30.2	27.6	29.8	27.2	28.4	26.1
	-3.0	-3.7	30.5	27.7	30.3	27.8	30.2	27.0	29.8	26.6	28.4	25.5
	0.0	-0.7	30.5	25.1	30.3	25.0	30.2	24.6	29.8	23.8	28.4	23.2
	3.0	2.2	38.2	23.0	36.8	22.2	35.0	21.2	32.8	20.5	30.5	19.6
	5.0	4.1	38.2	21.6	36.8	20.8	35.0	19.7	32.8	19.0	30.5	18.2
7.0	6.0	38.2	21.0	36.8	20.2	35.0	19.1	32.8	18.5	30.5	17.7	
9.0	7.9	38.2	20.7	36.8	20.0	35.0	18.8	32.8	18.2	30.5	17.4	
11.0	9.8	38.2	20.5	36.8	19.7	35.0	18.6	32.8	18.0	30.5	17.2	
13.0	11.8	38.2	20.2	36.8	19.5	35.0	18.5	32.8	17.9	30.5	17.1	
60	-19.8	-20	26.1	24.4	26.0	24.4	25.9	23.8	25.5	23.4	24.3	22.4
	-18.8	-19	26.1	24.4	26.0	24.4	25.9	23.8	25.5	23.4	24.3	22.4
	-16.7	-17	26.1	24.3	26.0	24.4	25.9	23.7	25.5	23.4	24.3	22.4
	-13.7	-15	26.1	24.3	26.0	24.4	25.9	23.7	25.5	23.4	24.3	22.4
	-11.8	-13	26.1	24.3	26.0	24.4	25.9	23.7	25.5	23.4	24.3	22.4
	-9.8	-11	26.1	24.3	26.0	24.4	25.9	23.7	25.5	23.3	24.3	22.4
	-9.5	-10	26.1	24.3	26.0	24.4	25.9	23.7	25.5	23.3	24.3	22.4
	-8.5	-9.1	26.1	24.3	26.0	24.4	25.9	23.7	25.5	23.3	24.3	22.4
	-7.0	-7.6	26.1	24.3	26.0	24.3	25.9	23.7	25.5	23.3	24.3	22.3
	-5.0	-5.6	26.1	24.2	26.0	24.3	25.9	23.7	25.5	23.3	24.3	22.3
	-3.0	-3.7	26.1	23.7	26.0	23.8	25.9	23.1	25.5	22.8	24.3	21.8
	0.0	-0.7	26.1	21.5	26.0	21.5	25.9	21.1	25.5	20.4	24.3	19.9
	3.0	2.2	32.7	19.7	31.5	19.0	30.0	18.1	28.1	17.6	26.2	16.8
	5.0	4.1	32.7	18.5	31.5	17.9	30.0	16.9	28.1	16.3	26.2	15.6
7.0	6.0	32.7	18.0	31.5	17.4	30.0	16.4	28.1	15.8	26.2	15.1	
9.0	7.9	32.7	17.7	31.5	17.1	30.0	16.1	28.1	15.6	26.2	14.9	
11.0	9.8	32.7	17.5	31.5	16.8	30.0	16.0	28.1	15.5	26.2	14.8	
13.0	11.8	32.7	17.4	31.5	16.7	30.0	15.9	28.1	15.3	26.2	14.7	
50	-19.8	-20	21.8	20.3	21.6	20.4	21.6	19.8	21.3	19.5	20.3	18.7
	-18.8	-19	21.8	20.3	21.6	20.4	21.6	19.8	21.3	19.5	20.3	18.7
	-16.7	-17	21.8	20.3	21.6	20.3	21.6	19.8	21.3	19.5	20.3	18.7
	-13.7	-15	21.8	20.3	21.6	20.3	21.6	19.8	21.3	19.5	20.3	18.7
	-11.8	-13	21.8	20.3	21.6	20.3	21.6	19.8	21.3	19.5	20.3	18.6
	-9.8	-11	21.8	20.2	21.6	20.3	21.6	19.8	21.3	19.4	20.3	18.6
	-9.5	-10	21.8	20.2	21.6	20.3	21.6	19.8	21.3	19.5	20.3	18.6
	-8.5	-9.1	21.8	20.2	21.6	20.3	21.6	19.7	21.3	19.4	20.3	18.6
	-7.0	-7.6	21.8	20.2	21.6	20.3	21.6	19.7	21.3	19.4	20.3	18.6
	-5.0	-5.6	21.8	20.2	21.6	20.3	21.6	19.7	21.3	19.4	20.3	18.6
	-3.0	-3.7	21.8	19.8	21.6	19.8	21.6	19.3	21.3	19.0	20.3	18.2
	0.0	-0.7	21.8	17.9	21.6	17.9	21.6	17.6	21.3	17.0	20.3	16.6
	3.0	2.2	27.3	16.4	26.3	15.9	25.0	15.1	23.4	14.6	21.8	14.0
	5.0	4.1	27.3	15.4	26.3	14.9	25.0	14.0	23.4	13.6	21.8	13.0
7.0	6.0	27.3	15.0	26.3	14.5	25.0	13.6	23.4	13.2	21.8	12.6	
9.0	7.9	27.3	14.8	26.3	14.3	25.0	13.4	23.4	13.0	21.8	12.4	
11.0	9.8	27.3	14.6	26.3	14.0	25.0	13.3	23.4	12.9	21.8	12.3	
13.0	11.8	27.3	14.5	26.3	14.0	25.0	13.2	23.4	12.8	21.8	12.2	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

◆ 20HP

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
130	-19.8	-20	59.1	54.2	58.8	54.1	58.7	53.6	57.7	53.5	55.0	53.1
	-18.8	-19	59.1	54.2	58.8	54.0	58.7	53.6	57.7	53.5	55.0	53.0
	-16.7	-17	59.1	54.2	58.8	54.0	58.7	53.5	57.7	53.4	55.0	53.0
	-13.7	-15	59.1	54.1	58.8	53.9	58.7	53.5	57.7	53.4	55.0	53.0
	-11.8	-13	59.1	54.1	58.8	53.9	58.7	53.5	57.7	53.4	55.0	53.0
	-9.8	-11	59.1	54.1	58.8	53.9	58.7	53.4	57.7	53.3	55.0	53.0
	-9.5	-10	59.1	54.1	58.8	53.9	58.7	53.4	57.7	53.4	55.0	53.0
	-8.5	-9.1	59.1	54.0	58.8	53.9	58.7	53.4	57.7	53.3	55.0	53.0
	-7.0	-7.6	59.1	54.0	58.8	53.8	58.7	53.4	57.7	53.3	55.0	52.9
	-5.0	-5.6	59.1	53.9	58.8	53.8	58.7	53.3	57.7	53.3	55.0	52.9
	-3.0	-3.7	59.1	52.8	58.8	52.6	58.7	52.2	57.7	52.0	55.0	51.7
	0.0	-0.7	59.1	47.9	58.8	47.4	58.7	47.5	57.7	46.6	55.0	47.2
	3.0	2.2	74.1	43.9	71.3	42.1	67.9	40.9	63.6	40.2	59.2	39.8
	5.0	4.1	74.1	41.2	71.3	39.5	67.9	38.0	63.6	37.3	59.2	36.9
7.0	6.0	74.1	40.0	71.3	38.4	67.9	36.9	63.6	36.2	59.2	35.8	
9.0	7.9	76.0	39.4	73.2	37.9	69.8	36.3	65.3	35.6	60.9	35.3	
11.0	9.8	76.5	39.0	73.7	37.3	70.2	36.0	65.7	35.3	61.2	34.9	
13.0	11.8	77.0	38.6	74.2	37.0	70.7	35.7	66.2	35.1	61.6	34.7	
120	-19.8	-20	57.3	53.5	56.9	53.3	56.9	52.8	55.9	52.8	53.3	52.3
	-18.8	-19	57.3	53.4	56.9	53.3	56.9	52.8	55.9	52.7	53.3	52.3
	-16.7	-17	57.3	53.4	56.9	53.2	56.9	52.8	55.9	52.7	53.3	52.3
	-13.7	-15	57.3	53.4	56.9	53.2	56.9	52.8	55.9	52.7	53.3	52.3
	-11.8	-13	57.3	53.3	56.9	53.2	56.9	52.7	55.9	52.6	53.3	52.3
	-9.8	-11	57.3	53.3	56.9	53.1	56.9	52.7	55.9	52.6	53.3	52.3
	-9.5	-10	57.3	53.3	56.9	53.1	56.9	52.7	55.9	52.6	53.3	52.2
	-8.5	-9.1	57.3	53.3	56.9	53.1	56.9	52.7	55.9	52.6	53.3	52.2
	-7.0	-7.6	57.3	53.3	56.9	53.1	56.9	52.6	55.9	52.6	53.3	52.2
	-5.0	-5.6	57.3	53.2	56.9	53.0	56.9	52.6	55.9	52.5	53.3	52.2
	-3.0	-3.7	57.3	52.0	56.9	51.9	56.9	51.4	55.9	51.3	53.3	51.0
	0.0	-0.7	57.3	47.2	56.9	46.8	56.9	46.8	55.9	46.0	53.3	46.5
	3.0	2.2	71.7	43.3	69.1	41.5	65.8	40.3	61.6	39.6	57.4	39.2
	5.0	4.1	71.7	40.6	69.1	39.0	65.8	37.5	61.6	36.8	57.4	36.4
7.0	6.0	71.7	39.4	69.1	37.8	65.8	36.4	61.6	35.7	57.4	35.3	
9.0	7.9	73.2	38.9	70.5	37.3	67.2	35.8	62.9	35.2	58.6	34.8	
11.0	9.8	73.7	38.5	71.0	36.7	67.6	35.5	63.3	34.8	58.9	34.5	
13.0	11.8	74.1	38.1	71.4	36.5	68.0	35.2	63.7	34.6	59.3	34.3	
110	-19.8	-20	55.5	52.7	55.2	52.6	55.1	52.1	54.2	52.0	51.7	51.6
	-18.8	-19	55.5	52.7	55.2	52.5	55.1	52.1	54.2	52.0	51.7	51.6
	-16.7	-17	55.5	52.7	55.2	52.5	55.1	52.1	54.2	52.0	51.7	51.6
	-13.7	-15	55.5	52.6	55.2	52.4	55.1	52.0	54.2	51.9	51.7	51.6
	-11.8	-13	55.5	52.6	55.2	52.4	55.1	52.0	54.2	51.9	51.7	51.5
	-9.8	-11	55.5	52.6	55.2	52.4	55.1	52.0	54.2	51.8	51.7	51.5
	-9.5	-10	55.5	52.6	55.2	52.4	55.1	52.0	54.2	51.9	51.7	51.5
	-8.5	-9.1	55.5	52.5	55.2	52.4	55.1	51.9	54.2	51.9	51.7	51.5
	-7.0	-7.6	55.5	52.5	55.2	52.3	55.1	51.9	54.2	51.8	51.7	51.5
	-5.0	-5.6	55.5	52.5	55.2	52.3	55.1	51.9	54.2	51.8	51.7	51.5
	-3.0	-3.7	55.5	51.3	55.2	51.2	55.1	50.7	54.2	50.6	51.7	50.3
	0.0	-0.7	55.5	46.6	55.2	46.1	55.1	46.2	54.2	45.3	51.7	45.9
	3.0	2.2	69.5	42.7	67.0	40.9	63.8	39.8	59.7	39.1	55.6	38.7
	5.0	4.1	69.5	40.0	67.0	38.4	63.8	36.9	59.7	36.3	55.6	35.9
7.0	6.0	69.5	38.9	67.0	37.3	63.8	35.9	59.7	35.2	55.6	34.9	
9.0	7.9	70.5	38.3	67.9	36.8	64.7	35.3	60.5	34.7	56.4	34.3	
11.0	9.8	70.9	37.9	68.3	36.2	65.1	35.0	60.9	34.4	56.8	34.0	
13.0	11.8	71.4	37.6	68.8	36.0	65.5	34.8	61.3	34.1	57.1	33.8	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
100	-19.8	-20	54.8	52.0	54.5	51.8	54.4	51.4	53.6	51.3	51.0	50.9
	-18.8	-19	54.8	51.9	54.5	51.8	54.4	51.3	53.6	51.3	51.0	50.8
	-16.7	-17	54.8	51.9	54.5	51.8	54.4	51.3	53.6	51.2	51.0	50.8
	-13.7	-15	54.8	51.9	54.5	51.7	54.4	51.3	53.6	51.2	51.0	50.8
	-11.8	-13	54.8	51.9	54.5	51.7	54.4	51.3	53.6	51.2	51.0	50.8
	-9.8	-11	54.8	51.8	54.5	51.7	54.4	51.2	53.6	51.1	51.0	50.8
	-9.5	-10	54.8	51.8	54.5	51.7	54.4	51.2	53.6	51.2	51.0	50.8
	-8.5	-9.1	54.8	51.8	54.5	51.6	54.4	51.2	53.6	51.1	51.0	50.8
	-7.0	-7.6	54.8	51.8	54.5	51.6	54.4	51.2	53.6	51.1	51.0	50.8
	-5.0	-5.6	54.8	51.7	54.5	51.5	54.4	51.1	53.6	51.1	51.0	50.7
	-3.0	-3.7	54.8	50.6	54.5	50.4	54.4	50.0	53.6	49.9	51.0	49.5
	0.0	-0.7	54.8	45.9	54.5	45.5	54.4	45.5	53.6	44.7	51.0	45.2
	3.0	2.2	68.7	42.1	66.2	40.4	63.0	39.2	59.0	38.5	54.9	38.1
	5.0	4.1	68.7	39.4	66.2	37.9	63.0	36.4	59.0	35.8	54.9	35.4
7.0	6.0	68.7	38.3	66.2	36.8	63.0	35.0	59.0	34.7	54.9	34.4	
9.0	7.9	68.7	37.8	66.2	36.3	63.0	34.8	59.0	34.2	54.9	33.8	
11.0	9.8	68.7	37.4	66.2	35.7	63.0	34.5	59.0	33.9	54.9	33.5	
13.0	11.8	68.7	37.0	66.2	35.5	63.0	34.3	59.0	33.6	54.9	33.3	
90	-19.8	-20	49.3	47.4	49.0	47.5	49.0	46.2	48.2	45.5	45.9	43.6
	-18.8	-19	49.3	47.4	49.0	47.5	49.0	46.2	48.2	45.5	45.9	43.5
	-16.7	-17	49.3	47.3	49.0	47.5	49.0	46.2	48.2	45.5	45.9	43.5
	-13.7	-15	49.3	47.3	49.0	47.4	49.0	46.2	48.2	45.4	45.9	43.5
	-11.8	-13	49.3	47.3	49.0	47.4	49.0	46.1	48.2	45.4	45.9	43.5
	-9.8	-11	49.3	47.2	49.0	47.4	49.0	46.1	48.2	45.3	45.9	43.5
	-9.5	-10	49.3	47.2	49.0	47.4	49.0	46.1	48.2	45.4	45.9	43.5
	-8.5	-9.1	49.3	47.2	49.0	47.4	49.0	46.1	48.2	45.4	45.9	43.5
	-7.0	-7.6	49.3	47.2	49.0	47.3	49.0	46.0	48.2	45.3	45.9	43.5
	-5.0	-5.6	49.3	47.1	49.0	47.3	49.0	46.0	48.2	45.3	45.9	43.4
	-3.0	-3.7	49.3	46.1	49.0	46.3	49.0	45.0	48.2	44.3	45.9	42.4
	0.0	-0.7	49.3	41.9	49.0	41.7	49.0	41.0	48.2	39.6	45.9	38.7
	3.0	2.2	61.8	38.4	59.5	37.0	56.7	35.3	53.1	34.2	49.4	32.6
	5.0	4.1	61.8	36.0	59.5	34.7	56.7	32.8	53.1	31.7	49.4	30.3
7.0	6.0	61.8	34.9	59.5	33.7	56.7	31.8	53.1	30.8	49.4	29.4	
9.0	7.9	61.8	34.4	59.5	33.3	56.7	31.3	53.1	30.3	49.4	29.0	
11.0	9.8	61.8	34.1	59.5	32.8	56.7	31.0	53.1	30.0	49.4	28.7	
13.0	11.8	61.8	33.7	59.5	32.6	56.7	30.8	53.1	29.8	49.4	28.5	
80	-19.8	-20	43.8	42.1	43.6	42.3	43.5	41.1	42.8	40.5	40.8	38.7
	-18.8	-19	43.8	42.1	43.6	42.2	43.5	41.1	42.8	40.4	40.8	38.7
	-16.7	-17	43.8	42.1	43.6	42.2	43.5	41.0	42.8	40.4	40.8	38.7
	-13.7	-15	43.8	42.0	43.6	42.2	43.5	41.0	42.8	40.4	40.8	38.7
	-11.8	-13	43.8	42.0	43.6	42.2	43.5	41.0	42.8	40.4	40.8	38.7
	-9.8	-11	43.8	42.0	43.6	42.1	43.5	41.0	42.8	40.3	40.8	38.7
	-9.5	-10	43.8	42.0	43.6	42.1	43.5	41.0	42.8	40.4	40.8	38.6
	-8.5	-9.1	43.8	42.0	43.6	42.1	43.5	41.0	42.8	40.3	40.8	38.6
	-7.0	-7.6	43.8	41.9	43.6	42.1	43.5	40.9	42.8	40.3	40.8	38.6
	-5.0	-5.6	43.8	41.9	43.6	42.0	43.5	40.9	42.8	40.3	40.8	38.6
	-3.0	-3.7	43.8	41.0	43.6	41.1	43.5	40.0	42.8	39.3	40.8	37.7
	0.0	-0.7	43.8	37.2	43.6	37.1	43.5	36.4	42.8	35.2	40.8	34.4
	3.0	2.2	54.9	34.1	52.9	32.9	50.4	31.4	47.2	30.4	43.9	29.0
	5.0	4.1	54.9	32.0	52.9	30.9	50.4	29.1	47.2	28.2	43.9	26.9
7.0	6.0	54.9	31.1	52.9	30.0	50.4	28.3	47.2	27.4	43.9	26.2	
9.0	7.9	54.9	30.6	52.9	29.6	50.4	27.8	47.2	26.9	43.9	25.7	
11.0	9.8	54.9	30.3	52.9	29.1	50.4	27.6	47.2	26.7	43.9	25.5	
13.0	11.8	54.9	30.0	52.9	28.9	50.4	27.4	47.2	26.5	43.9	25.3	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
70	-19.8	-20	38.4	36.9	38.1	37.0	38.1	36.0	37.5	35.4	35.7	33.9
	-18.8	-19	38.4	36.8	38.1	37.0	38.1	35.9	37.5	35.4	35.7	33.9
	-16.7	-17	38.4	36.8	38.1	36.9	38.1	35.9	37.5	35.4	35.7	33.9
	-13.7	-15	38.4	36.8	38.1	36.9	38.1	35.9	37.5	35.3	35.7	33.9
	-11.8	-13	38.4	36.8	38.1	36.9	38.1	35.9	37.5	35.3	35.7	33.8
	-9.8	-11	38.4	36.7	38.1	36.9	38.1	35.9	37.5	35.3	35.7	33.8
	-9.5	-10	38.4	36.7	38.1	36.9	38.1	35.9	37.5	35.3	35.7	33.8
	-8.5	-9.1	38.4	36.7	38.1	36.8	38.1	35.8	37.5	35.3	35.7	33.8
	-7.0	-7.6	38.4	36.7	38.1	36.8	38.1	35.8	37.5	35.3	35.7	33.8
	-5.0	-5.6	38.4	36.7	38.1	36.8	38.1	35.8	37.5	35.2	35.7	33.8
	-3.0	-3.7	38.4	35.9	38.1	36.0	38.1	35.0	37.5	34.4	35.7	33.0
	0.0	-0.7	38.4	32.6	38.1	32.4	38.1	31.9	37.5	30.8	35.7	30.1
	3.0	2.2	48.1	29.8	46.3	28.8	44.1	27.4	41.3	26.6	38.5	25.4
	5.0	4.1	48.1	28.0	46.3	27.0	44.1	25.5	41.3	24.7	38.5	23.6
7.0	6.0	48.1	27.2	46.3	26.2	44.1	24.7	41.3	24.0	38.5	22.9	
9.0	7.9	48.1	26.8	46.3	25.9	44.1	24.3	41.3	23.6	38.5	22.5	
11.0	9.8	48.1	26.5	46.3	25.5	44.1	24.1	41.3	23.4	38.5	22.3	
13.0	11.8	48.1	26.2	46.3	25.3	44.1	24.0	41.3	23.2	38.5	22.2	
60	-19.8	-20	32.9	31.6	32.7	31.7	32.7	30.8	32.1	30.3	30.6	29.0
	-18.8	-19	32.9	31.6	32.7	31.7	32.7	30.8	32.1	30.3	30.6	29.0
	-16.7	-17	32.9	31.6	32.7	31.7	32.7	30.8	32.1	30.3	30.6	29.0
	-13.7	-15	32.9	31.5	32.7	31.6	32.7	30.8	32.1	30.3	30.6	29.0
	-11.8	-13	32.9	31.5	32.7	31.6	32.7	30.8	32.1	30.3	30.6	29.0
	-9.8	-11	32.9	31.5	32.7	31.6	32.7	30.7	32.1	30.2	30.6	29.0
	-9.5	-10	32.9	31.5	32.7	31.6	32.7	30.7	32.1	30.3	30.6	29.0
	-8.5	-9.1	32.9	31.5	32.7	31.6	32.7	30.7	32.1	30.2	30.6	29.0
	-7.0	-7.6	32.9	31.5	32.7	31.6	32.7	30.7	32.1	30.2	30.6	29.0
	-5.0	-5.6	32.9	31.4	32.7	31.5	32.7	30.7	32.1	30.2	30.6	29.0
	-3.0	-3.7	32.9	30.7	32.7	30.8	32.7	30.0	32.1	29.5	30.6	28.3
	0.0	-0.7	32.9	27.9	32.7	27.8	32.7	27.3	32.1	26.4	30.6	25.8
	3.0	2.2	41.2	25.6	39.7	24.7	37.8	23.5	35.4	22.8	33.0	21.8
	5.0	4.1	41.2	24.0	39.7	23.2	37.8	21.8	35.4	21.2	33.0	20.2
7.0	6.0	41.2	23.3	39.7	22.5	37.8	21.2	35.4	20.5	33.0	19.6	
9.0	7.9	41.2	23.0	39.7	22.2	37.8	20.9	35.4	20.2	33.0	19.3	
11.0	9.8	41.2	22.7	39.7	21.8	37.8	20.7	35.4	20.0	33.0	19.1	
13.0	11.8	41.2	22.5	39.7	21.7	37.8	20.6	35.4	19.9	33.0	19.0	
50	-19.8	-20	27.4	26.3	27.2	26.4	27.2	25.7	26.8	25.3	25.5	24.2
	-18.8	-19	27.4	26.3	27.2	26.4	27.2	25.7	26.8	25.3	25.5	24.2
	-16.7	-17	27.4	26.3	27.2	26.4	27.2	25.7	26.8	25.3	25.5	24.2
	-13.7	-15	27.4	26.3	27.2	26.3	27.2	25.6	26.8	25.2	25.5	24.2
	-11.8	-13	27.4	26.3	27.2	26.3	27.2	25.6	26.8	25.2	25.5	24.2
	-9.8	-11	27.4	26.2	27.2	26.3	27.2	25.6	26.8	25.2	25.5	24.2
	-9.5	-10	27.4	26.2	27.2	26.3	27.2	25.6	26.8	25.2	25.5	24.2
	-8.5	-9.1	27.4	26.2	27.2	26.3	27.2	25.6	26.8	25.2	25.5	24.2
	-7.0	-7.6	27.4	26.2	27.2	26.3	27.2	25.6	26.8	25.2	25.5	24.1
	-5.0	-5.6	27.4	26.2	27.2	26.3	27.2	25.6	26.8	25.2	25.5	24.1
	-3.0	-3.7	27.4	25.6	27.2	25.7	27.2	25.0	26.8	24.6	25.5	23.6
	0.0	-0.7	27.4	23.3	27.2	23.2	27.2	22.8	26.8	22.0	25.5	21.5
	3.0	2.2	34.3	21.3	33.1	20.6	31.5	19.6	29.5	19.0	27.5	18.1
	5.0	4.1	34.3	20.0	33.1	19.3	31.5	18.2	29.5	17.6	27.5	16.8
7.0	6.0	34.3	19.4	33.1	18.7	31.5	17.7	29.5	17.1	27.5	16.3	
9.0	7.9	34.3	19.1	33.1	18.5	31.5	17.4	29.5	16.8	27.5	16.1	
11.0	9.8	34.3	18.9	33.1	18.2	31.5	17.2	29.5	16.7	27.5	15.9	
13.0	11.8	34.3	18.7	33.1	18.1	31.5	17.1	29.5	16.6	27.5	15.8	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

◆ 25HP

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
130	-19.8	-20	75.1	69.7	74.6	69.5	74.5	68.2	73.3	68.8	69.9	68.2
	-18.8	-19	75.1	69.7	74.6	69.5	74.5	68.2	73.3	68.8	69.9	68.2
	-16.7	-17	75.1	69.6	74.6	69.4	74.5	68.1	73.3	68.7	69.9	68.2
	-13.7	-15	75.1	69.6	74.6	69.3	74.5	68.1	73.3	68.7	69.9	68.2
	-11.8	-13	75.1	69.6	74.6	69.3	74.5	68.1	73.3	68.6	69.9	68.1
	-9.8	-11	75.1	69.5	74.6	69.3	74.5	68.0	73.3	68.5	69.9	68.1
	-9.5	-10	75.1	69.5	74.6	69.3	74.5	68.0	73.3	68.6	69.9	68.1
	-8.5	-9.1	75.1	69.5	74.6	69.3	74.5	68.0	73.3	68.6	69.9	68.1
	-7.0	-7.6	75.1	69.4	74.6	69.2	74.5	67.9	73.3	68.5	69.9	68.1
	-5.0	-5.6	75.1	69.4	74.6	69.1	74.5	67.9	73.3	68.5	69.9	68.0
	-3.0	-3.7	75.1	67.8	74.6	67.6	74.5	66.4	73.3	66.9	69.9	66.5
	0.0	-0.7	75.1	61.6	74.6	61.0	74.5	60.5	73.3	59.9	69.9	60.7
	3.0	2.2	94.0	56.4	90.6	54.1	86.3	52.1	80.7	51.7	75.2	51.1
	5.0	4.1	94.0	52.9	90.6	50.8	86.3	48.4	80.7	48.0	75.2	47.5
	7.0	6.0	94.0	51.4	90.6	49.3	86.3	46.9	80.7	46.6	75.2	46.1
9.0	7.9	96.5	50.7	93.0	48.7	88.6	46.2	82.9	45.8	77.3	45.4	
11.0	9.8	97.2	50.2	93.6	47.9	89.1	45.8	83.5	45.4	77.7	44.9	
13.0	11.8	97.8	49.7	94.3	47.6	89.8	45.5	84.0	45.1	78.3	44.7	
120	-19.8	-20	72.7	68.8	72.3	68.5	72.2	67.3	71.0	67.8	67.7	67.3
	-18.8	-19	72.7	68.7	72.3	68.5	72.2	67.2	71.0	67.8	67.7	67.2
	-16.7	-17	72.7	68.7	72.3	68.4	72.2	67.2	71.0	67.8	67.7	67.2
	-13.7	-15	72.7	68.6	72.3	68.4	72.2	67.2	71.0	67.7	67.7	67.2
	-11.8	-13	72.7	68.6	72.3	68.4	72.2	67.1	71.0	67.7	67.7	67.2
	-9.8	-11	72.7	68.5	72.3	68.3	72.2	67.1	71.0	67.6	67.7	67.2
	-9.5	-10	72.7	68.5	72.3	68.3	72.2	67.1	71.0	67.7	67.7	67.2
	-8.5	-9.1	72.7	68.5	72.3	68.3	72.2	67.0	71.0	67.6	67.7	67.2
	-7.0	-7.6	72.7	68.5	72.3	68.2	72.2	67.0	71.0	67.6	67.7	67.1
	-5.0	-5.6	72.7	68.4	72.3	68.2	72.2	67.0	71.0	67.5	67.7	67.1
	-3.0	-3.7	72.7	66.9	72.3	66.7	72.2	65.5	71.0	66.0	67.7	65.5
	0.0	-0.7	72.7	60.7	72.3	60.1	72.2	59.6	71.0	59.1	67.7	59.8
	3.0	2.2	91.1	55.7	87.7	53.4	83.6	51.3	78.2	50.9	72.9	50.4
	5.0	4.1	91.1	52.2	87.7	50.1	83.6	47.7	78.2	47.3	72.9	46.8
	7.0	6.0	91.1	50.7	87.7	48.6	83.6	46.3	78.2	45.9	72.9	45.4
9.0	7.9	93.0	50.0	89.6	48.0	85.3	45.6	79.8	45.2	74.4	44.7	
11.0	9.8	93.6	49.5	90.1	47.2	85.8	45.1	80.3	44.8	74.8	44.3	
13.0	11.8	94.2	49.0	90.7	46.9	86.4	44.9	80.9	44.5	75.3	44.0	
110	-19.8	-20	70.5	67.8	70.1	67.6	70.0	66.3	68.9	66.9	65.6	66.3
	-18.8	-19	70.5	67.8	70.1	67.5	70.0	66.3	68.9	66.9	65.6	66.3
	-16.7	-17	70.5	67.7	70.1	67.5	70.0	66.3	68.9	66.8	65.6	66.3
	-13.7	-15	70.5	67.7	70.1	67.4	70.0	66.2	68.9	66.8	65.6	66.3
	-11.8	-13	70.5	67.6	70.1	67.4	70.0	66.2	68.9	66.7	65.6	66.3
	-9.8	-11	70.5	67.6	70.1	67.4	70.0	66.1	68.9	66.7	65.6	66.3
	-9.5	-10	70.5	67.6	70.1	67.4	70.0	66.1	68.9	66.7	65.6	66.2
	-8.5	-9.1	70.5	67.6	70.1	67.3	70.0	66.1	68.9	66.7	65.6	66.2
	-7.0	-7.6	70.5	67.5	70.1	67.3	70.0	66.1	68.9	66.6	65.6	66.2
	-5.0	-5.6	70.5	67.4	70.1	67.2	70.0	66.0	68.9	66.6	65.6	66.2
	-3.0	-3.7	70.5	66.0	70.1	65.8	70.0	64.6	68.9	65.1	65.6	64.6
	0.0	-0.7	70.5	59.9	70.1	59.3	70.0	58.8	68.9	58.3	65.6	59.0
	3.0	2.2	88.3	54.9	85.1	52.6	81.0	50.6	75.8	50.2	70.6	49.7
	5.0	4.1	88.3	51.5	85.1	49.4	81.0	47.0	75.8	46.7	70.6	46.2
	7.0	6.0	88.3	50.0	85.1	48.0	81.0	45.7	75.8	45.3	70.6	44.8
9.0	7.9	89.5	49.3	86.2	47.3	82.1	44.9	76.8	44.6	71.6	44.1	
11.0	9.8	90.1	48.8	86.8	46.6	82.6	44.5	77.4	44.2	72.1	43.7	
13.0	11.8	90.7	48.3	87.4	46.3	83.2	44.2	77.9	43.9	72.5	43.4	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
100	-19.8	-20	69.6	66.8	69.2	66.6	69.1	65.4	68.0	65.9	64.8	65.4
	-18.8	-19	69.6	66.8	69.2	66.6	69.1	65.4	68.0	65.9	64.8	65.4
	-16.7	-17	69.6	66.8	69.2	66.5	69.1	65.3	68.0	65.9	64.8	65.4
	-13.7	-15	69.6	66.7	69.2	66.5	69.1	65.3	68.0	65.8	64.8	65.4
	-11.8	-13	69.6	66.7	69.2	66.5	69.1	65.2	68.0	65.8	64.8	65.3
	-9.8	-11	69.6	66.6	69.2	66.4	69.1	65.2	68.0	65.7	64.8	65.3
	-9.5	-10	69.6	66.6	69.2	66.4	69.1	65.2	68.0	65.8	64.8	65.3
	-8.5	-9.1	69.6	66.6	69.2	66.4	69.1	65.2	68.0	65.7	64.8	65.3
	-7.0	-7.6	69.6	66.6	69.2	66.3	69.1	65.1	68.0	65.7	64.8	65.3
	-5.0	-5.6	69.6	66.5	69.2	66.3	69.1	65.1	68.0	65.6	64.8	65.2
	-3.0	-3.7	69.6	65.0	69.2	64.8	69.1	63.6	68.0	64.1	64.8	63.7
	0.0	-0.7	69.6	59.0	69.2	58.5	69.1	58.0	68.0	57.4	64.8	58.2
	3.0	2.2	87.2	54.1	84.0	51.9	80.0	49.9	74.9	49.5	69.8	49.0
	5.0	4.1	87.2	50.7	84.0	48.7	80.0	46.4	74.9	46.0	69.8	45.5
7.0	6.0	87.2	49.3	84.0	47.3	80.0	45.0	74.9	44.6	69.8	44.2	
9.0	7.9	87.2	48.6	84.0	46.7	80.0	44.3	74.9	43.9	69.8	43.5	
11.0	9.8	87.2	48.1	84.0	45.9	80.0	43.9	74.9	43.5	69.8	43.1	
13.0	11.8	87.2	47.6	84.0	45.6	80.0	43.6	74.9	43.2	69.8	42.8	
90	-19.8	-20	62.6	60.9	62.3	61.1	62.2	58.9	61.2	58.5	58.3	56.0
	-18.8	-19	62.6	60.9	62.3	61.1	62.2	58.8	61.2	58.5	58.3	56.0
	-16.7	-17	62.6	60.8	62.3	61.0	62.2	58.8	61.2	58.4	58.3	56.0
	-13.7	-15	62.6	60.8	62.3	61.0	62.2	58.8	61.2	58.4	58.3	56.0
	-11.8	-13	62.6	60.8	62.3	61.0	62.2	58.7	61.2	58.4	58.3	55.9
	-9.8	-11	62.6	60.7	62.3	60.9	62.2	58.7	61.2	58.3	58.3	55.9
	-9.5	-10	62.6	60.7	62.3	60.9	62.2	58.7	61.2	58.4	58.3	55.9
	-8.5	-9.1	62.6	60.7	62.3	60.9	62.2	58.6	61.2	58.3	58.3	55.9
	-7.0	-7.6	62.6	60.7	62.3	60.9	62.2	58.6	61.2	58.3	58.3	55.9
	-5.0	-5.6	62.6	60.6	62.3	60.8	62.2	58.6	61.2	58.2	58.3	55.8
	-3.0	-3.7	62.6	59.3	62.3	59.5	62.2	57.3	61.2	56.9	58.3	54.5
	0.0	-0.7	62.6	53.8	62.3	53.6	62.2	52.2	61.2	51.0	58.3	49.8
	3.0	2.2	78.5	49.3	75.6	47.6	72.0	44.9	67.4	43.9	62.8	41.9
	5.0	4.1	78.5	46.2	75.6	44.7	72.0	41.7	67.4	40.8	62.8	39.0
7.0	6.0	78.5	44.9	75.6	43.4	72.0	40.5	67.4	39.6	62.8	37.8	
9.0	7.9	78.5	44.3	75.6	42.8	72.0	39.9	67.4	39.0	62.8	37.2	
11.0	9.8	78.5	43.8	75.6	42.1	72.0	39.5	67.4	38.6	62.8	36.9	
13.0	11.8	78.5	43.4	75.6	41.9	72.0	39.2	67.4	38.4	62.8	36.7	
80	-19.8	-20	55.7	54.2	55.4	54.3	55.3	52.3	54.4	52.0	51.8	49.8
	-18.8	-19	55.7	54.1	55.4	54.3	55.3	52.3	54.4	52.0	51.8	49.7
	-16.7	-17	55.7	54.1	55.4	54.3	55.3	52.3	54.4	52.0	51.8	49.7
	-13.7	-15	55.7	54.1	55.4	54.2	55.3	52.2	54.4	51.9	51.8	49.7
	-11.8	-13	55.7	54.0	55.4	54.2	55.3	52.2	54.4	51.9	51.8	49.7
	-9.8	-11	55.7	54.0	55.4	54.2	55.3	52.2	54.4	51.8	51.8	49.7
	-9.5	-10	55.7	54.0	55.4	54.2	55.3	52.2	54.4	51.9	51.8	49.7
	-8.5	-9.1	55.7	54.0	55.4	54.1	55.3	52.1	54.4	51.9	51.8	49.7
	-7.0	-7.6	55.7	53.9	55.4	54.1	55.3	52.1	54.4	51.8	51.8	49.7
	-5.0	-5.6	55.7	53.9	55.4	54.0	55.3	52.1	54.4	51.8	51.8	49.6
	-3.0	-3.7	55.7	52.7	55.4	52.9	55.3	50.9	54.4	50.6	51.8	48.5
	0.0	-0.7	55.7	47.8	55.4	47.7	55.3	46.4	54.4	45.3	51.8	44.3
	3.0	2.2	69.8	43.8	67.2	42.3	64.0	39.9	59.9	39.1	55.8	37.3
	5.0	4.1	69.8	41.1	67.2	39.7	64.0	37.1	59.9	36.3	55.8	34.6
7.0	6.0	69.8	39.9	67.2	38.6	64.0	36.0	59.9	35.2	55.8	33.6	
9.0	7.9	69.8	39.3	67.2	38.1	64.0	35.4	59.9	34.6	55.8	33.1	
11.0	9.8	69.8	39.0	67.2	37.4	64.0	35.1	59.9	34.3	55.8	32.8	
13.0	11.8	69.8	38.6	67.2	37.2	64.0	34.9	59.9	34.1	55.8	32.6	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
70	-19.8	-20	48.7	47.4	48.4	47.5	48.4	45.8	47.6	45.5	45.4	43.6
	-18.8	-19	48.7	47.4	48.4	47.5	48.4	45.8	47.6	45.5	45.4	43.5
	-16.7	-17	48.7	47.3	48.4	47.5	48.4	45.7	47.6	45.5	45.4	43.5
	-13.7	-15	48.7	47.3	48.4	47.4	48.4	45.7	47.6	45.4	45.4	43.5
	-11.8	-13	48.7	47.3	48.4	47.4	48.4	45.7	47.6	45.4	45.4	43.5
	-9.8	-11	48.7	47.2	48.4	47.4	48.4	45.6	47.6	45.3	45.4	43.5
	-9.5	-10	48.7	47.2	48.4	47.4	48.4	45.6	47.6	45.4	45.4	43.5
	-8.5	-9.1	48.7	47.2	48.4	47.4	48.4	45.6	47.6	45.4	45.4	43.5
	-7.0	-7.6	48.7	47.2	48.4	47.3	48.4	45.6	47.6	45.3	45.4	43.5
	-5.0	-5.6	48.7	47.1	48.4	47.3	48.4	45.6	47.6	45.3	45.4	43.4
	-3.0	-3.7	48.7	46.1	48.4	46.3	48.4	44.6	47.6	44.3	45.4	42.4
	0.0	-0.7	48.7	41.9	48.4	41.7	48.4	40.6	47.6	39.6	45.4	38.7
	3.0	2.2	61.0	38.4	58.8	37.0	56.0	34.9	52.4	34.2	48.8	32.6
	5.0	4.1	61.0	36.0	58.8	34.7	56.0	32.4	52.4	31.7	48.8	30.3
7.0	6.0	61.0	34.9	58.8	33.7	56.0	31.5	52.4	30.8	48.8	29.4	
9.0	7.9	61.0	34.4	58.8	33.3	56.0	31.0	52.4	30.3	48.8	29.0	
11.0	9.8	61.0	34.1	58.8	32.8	56.0	30.7	52.4	30.0	48.8	28.7	
13.0	11.8	61.0	33.7	58.8	32.6	56.0	30.5	52.4	29.8	48.8	28.5	
60	-19.8	-20	41.8	40.6	41.5	40.7	41.5	39.2	40.8	39.0	38.9	37.3
	-18.8	-19	41.8	40.6	41.5	40.7	41.5	39.2	40.8	39.0	38.9	37.3
	-16.7	-17	41.8	40.6	41.5	40.7	41.5	39.2	40.8	39.0	38.9	37.3
	-13.7	-15	41.8	40.5	41.5	40.7	41.5	39.2	40.8	38.9	38.9	37.3
	-11.8	-13	41.8	40.5	41.5	40.7	41.5	39.1	40.8	38.9	38.9	37.3
	-9.8	-11	41.8	40.5	41.5	40.6	41.5	39.1	40.8	38.9	38.9	37.3
	-9.5	-10	41.8	40.5	41.5	40.6	41.5	39.1	40.8	38.9	38.9	37.3
	-8.5	-9.1	41.8	40.5	41.5	40.6	41.5	39.1	40.8	38.9	38.9	37.3
	-7.0	-7.6	41.8	40.4	41.5	40.6	41.5	39.1	40.8	38.9	38.9	37.2
	-5.0	-5.6	41.8	40.4	41.5	40.5	41.5	39.1	40.8	38.8	38.9	37.2
	-3.0	-3.7	41.8	39.5	41.5	39.7	41.5	38.2	40.8	37.9	38.9	36.4
	0.0	-0.7	41.8	35.9	41.5	35.8	41.5	34.8	40.8	34.0	38.9	33.2
	3.0	2.2	52.3	32.9	50.4	31.7	48.0	29.9	44.9	29.3	41.9	28.0
	5.0	4.1	52.3	30.8	50.4	29.8	48.0	27.8	44.9	27.2	41.9	26.0
7.0	6.0	52.3	29.9	50.4	28.9	48.0	27.0	44.9	26.4	41.9	25.2	
9.0	7.9	52.3	29.5	50.4	28.5	48.0	26.6	44.9	26.0	41.9	24.8	
11.0	9.8	52.3	29.2	50.4	28.1	48.0	26.3	44.9	25.8	41.9	24.6	
13.0	11.8	52.3	28.9	50.4	27.9	48.0	26.2	44.9	25.6	41.9	24.4	
50	-19.8	-20	34.8	33.8	34.6	34.0	34.6	32.7	34.0	32.5	32.4	31.1
	-18.8	-19	34.8	33.8	34.6	33.9	34.6	32.7	34.0	32.5	32.4	31.1
	-16.7	-17	34.8	33.8	34.6	33.9	34.6	32.7	34.0	32.5	32.4	31.1
	-13.7	-15	34.8	33.8	34.6	33.9	34.6	32.6	34.0	32.5	32.4	31.1
	-11.8	-13	34.8	33.8	34.6	33.9	34.6	32.6	34.0	32.4	32.4	31.1
	-9.8	-11	34.8	33.7	34.6	33.9	34.6	32.6	34.0	32.4	32.4	31.1
	-9.5	-10	34.8	33.7	34.6	33.8	34.6	32.6	34.0	32.4	32.4	31.1
	-8.5	-9.1	34.8	33.7	34.6	33.8	34.6	32.6	34.0	32.4	32.4	31.1
	-7.0	-7.6	34.8	33.7	34.6	33.8	34.6	32.6	34.0	32.4	32.4	31.0
	-5.0	-5.6	34.8	33.7	34.6	33.8	34.6	32.5	34.0	32.4	32.4	31.0
	-3.0	-3.7	34.8	32.9	34.6	33.0	34.6	31.8	34.0	31.6	32.4	30.3
	0.0	-0.7	34.8	29.9	34.6	29.8	34.6	29.0	34.0	28.3	32.4	27.7
	3.0	2.2	43.6	27.4	42.0	26.4	40.0	25.0	37.4	24.4	34.9	23.3
	5.0	4.1	43.6	25.7	42.0	24.8	40.0	23.2	37.4	22.7	34.9	21.6
7.0	6.0	43.6	25.0	42.0	24.1	40.0	22.5	37.4	22.0	34.9	21.0	
9.0	7.9	43.6	24.6	42.0	23.8	40.0	22.1	37.4	21.7	34.9	20.7	
11.0	9.8	43.6	24.3	42.0	23.4	40.0	21.9	37.4	21.5	34.9	20.5	
13.0	11.8	43.6	24.1	42.0	23.3	40.0	21.8	37.4	21.3	34.9	20.4	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

◆ 28HP

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
130	-19.8	-20	84.4	83.7	83.9	83.4	83.9	82.7	82.5	82.6	78.6	81.9
	-18.8	-19	84.4	83.6	83.9	83.3	83.9	82.6	82.5	82.5	78.6	81.8
	-16.7	-17	84.4	83.6	83.9	83.3	83.9	82.6	82.5	82.5	78.6	81.8
	-13.7	-15	84.4	83.5	83.9	83.2	83.9	82.5	82.5	82.4	78.6	81.8
	-11.8	-13	84.4	83.5	83.9	83.2	83.9	82.5	82.5	82.4	78.6	81.8
	-9.8	-11	84.4	83.4	83.9	83.1	83.9	82.4	82.5	82.3	78.6	81.8
	-9.5	-10	84.4	83.4	83.9	83.1	83.9	82.4	82.5	82.4	78.6	81.7
	-8.5	-9.1	84.4	83.4	83.9	83.1	83.9	82.4	82.5	82.3	78.6	81.7
	-7.0	-7.6	84.4	83.3	83.9	83.1	83.9	82.3	82.5	82.2	78.6	81.7
	-5.0	-5.6	84.4	83.2	83.9	83.0	83.9	82.3	82.5	82.2	78.6	81.6
	-3.0	-3.7	84.4	81.4	83.9	81.2	83.9	80.5	82.5	80.3	78.6	79.8
	0.0	-0.7	84.4	73.9	83.9	73.2	83.9	73.3	82.5	71.9	78.6	72.8
	3.0	2.2	105.8	67.7	101.9	65.0	97.1	63.1	90.8	62.0	84.6	61.3
	5.0	4.1	105.8	63.5	101.9	61.0	97.1	58.6	90.8	57.6	84.6	57.0
	7.0	6.0	105.8	61.7	101.9	59.2	97.1	56.9	90.8	55.9	84.6	55.3
120	9.0	7.9	108.6	60.8	104.6	58.4	99.7	56.0	93.3	55.0	86.9	54.5
	11.0	9.8	109.3	60.2	105.3	57.5	100.3	55.5	93.9	54.5	87.4	53.9
	13.0	11.8	110.0	59.6	106.0	57.1	101.0	55.1	94.5	54.1	88.0	53.6
	-19.8	-20	81.8	82.5	81.3	82.2	81.2	81.5	79.9	81.4	76.2	80.7
	-18.8	-19	81.8	82.5	81.3	82.2	81.2	81.5	79.9	81.4	76.2	80.7
	-16.7	-17	81.8	82.4	81.3	82.1	81.2	81.4	79.9	81.3	76.2	80.7
	-13.7	-15	81.8	82.4	81.3	82.0	81.2	81.4	79.9	81.3	76.2	80.7
	-11.8	-13	81.8	82.3	81.3	82.0	81.2	81.3	79.9	81.2	76.2	80.6
	-9.8	-11	81.8	82.3	81.3	82.0	81.2	81.3	79.9	81.1	76.2	80.6
	-9.5	-10	81.8	82.3	81.3	82.0	81.2	81.3	79.9	81.2	76.2	80.6
	-8.5	-9.1	81.8	82.2	81.3	81.9	81.2	81.2	79.9	81.2	76.2	80.6
	-7.0	-7.6	81.8	82.2	81.3	81.9	81.2	81.2	79.9	81.1	76.2	80.6
	-5.0	-5.6	81.8	82.1	81.3	81.8	81.2	81.2	79.9	81.0	76.2	80.5
	-3.0	-3.7	81.8	80.3	81.3	80.0	81.2	79.4	79.9	79.2	76.2	78.6
	0.0	-0.7	81.8	72.9	81.3	72.2	81.2	72.3	79.9	70.9	76.2	71.8
3.0	2.2	102.5	66.8	98.7	64.0	94.0	62.2	88.0	61.1	82.0	60.5	
5.0	4.1	102.5	62.6	98.7	60.1	94.0	57.8	88.0	56.8	82.0	56.2	
7.0	6.0	102.5	60.8	98.7	58.4	94.0	56.1	88.0	55.1	82.0	54.5	
9.0	7.9	104.6	59.9	100.7	57.6	95.9	55.2	89.8	54.2	83.7	53.7	
11.0	9.8	105.3	59.4	101.4	56.7	96.6	54.7	90.4	53.7	84.2	53.2	
13.0	11.8	105.9	58.8	102.0	56.3	97.2	54.4	91.0	53.4	84.7	52.9	
110	-19.8	-20	79.3	81.4	78.8	81.1	78.7	80.4	77.5	80.3	73.8	79.6
	-18.8	-19	79.3	81.3	78.8	81.1	78.7	80.4	77.5	80.2	73.8	79.6
	-16.7	-17	79.3	81.3	78.8	81.0	78.7	80.3	77.5	80.2	73.8	79.6
	-13.7	-15	79.3	81.2	78.8	80.9	78.7	80.3	77.5	80.1	73.8	79.6
	-11.8	-13	79.3	81.2	78.8	80.9	78.7	80.2	77.5	80.1	73.8	79.5
	-9.8	-11	79.3	81.1	78.8	80.9	78.7	80.2	77.5	80.0	73.8	79.5
	-9.5	-10	79.3	81.1	78.8	80.8	78.7	80.2	77.5	80.1	73.8	79.5
	-8.5	-9.1	79.3	81.1	78.8	80.8	78.7	80.1	77.5	80.0	73.8	79.5
	-7.0	-7.6	79.3	81.0	78.8	80.8	78.7	80.1	77.5	80.0	73.8	79.4
	-5.0	-5.6	79.3	80.9	78.8	80.7	78.7	80.0	77.5	79.9	73.8	79.4
	-3.0	-3.7	79.3	79.2	78.8	78.9	78.7	78.3	77.5	78.1	73.8	77.6
	0.0	-0.7	79.3	71.9	78.8	71.2	78.7	71.3	77.5	69.9	73.8	70.8
	3.0	2.2	99.3	65.9	95.7	63.2	91.1	61.4	85.3	60.3	79.5	59.6
	5.0	4.1	99.3	61.7	95.7	59.3	91.1	57.0	85.3	56.0	79.5	55.4
	7.0	6.0	99.3	60.0	95.7	57.6	91.1	55.3	85.3	54.3	79.5	53.8
9.0	7.9	100.7	59.1	97.0	56.8	92.4	54.4	86.4	53.5	80.5	53.0	
11.0	9.8	101.3	58.5	97.6	55.9	93.0	53.9	87.0	53.0	81.1	52.4	
13.0	11.8	102.0	57.9	98.3	55.5	93.6	53.6	87.6	52.6	81.6	52.1	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
100	-19.8	-20	78.3	80.2	77.9	79.9	77.8	79.3	76.5	79.1	72.9	78.5
	-18.8	-19	78.3	80.1	77.9	79.9	77.8	79.2	76.5	79.1	72.9	78.4
	-16.7	-17	78.3	80.1	77.9	79.8	77.8	79.2	76.5	79.0	72.9	78.4
	-13.7	-15	78.3	80.1	77.9	79.7	77.8	79.1	76.5	79.0	72.9	78.4
	-11.8	-13	78.3	80.0	77.9	79.7	77.8	79.1	76.5	79.0	72.9	78.4
	-9.8	-11	78.3	80.0	77.9	79.7	77.8	79.0	76.5	78.8	72.9	78.4
	-9.5	-10	78.3	80.0	77.9	79.7	77.8	79.0	76.5	78.9	72.9	78.3
	-8.5	-9.1	78.3	79.9	77.9	79.7	77.8	79.0	76.5	78.9	72.9	78.3
	-7.0	-7.6	78.3	79.9	77.9	79.6	77.8	78.9	76.5	78.8	72.9	78.3
	-5.0	-5.6	78.3	79.8	77.9	79.5	77.8	78.9	76.5	78.8	72.9	78.3
	-3.0	-3.7	78.3	78.0	77.9	77.8	77.8	77.1	76.5	77.0	72.9	76.4
	0.0	-0.7	78.3	70.8	77.9	70.1	77.8	70.3	76.5	68.9	72.9	69.8
	3.0	2.2	98.1	64.9	94.5	62.3	90.0	60.5	84.2	59.4	78.5	58.8
	5.0	4.1	98.1	60.9	94.5	58.4	90.0	56.2	84.2	55.2	78.5	54.6
7.0	6.0	98.1	59.1	94.5	56.7	90.0	54.5	84.2	53.6	78.5	53.0	
9.0	7.9	98.1	58.3	94.5	56.0	90.0	53.7	84.2	52.7	78.5	52.2	
11.0	9.8	98.1	57.7	94.5	55.1	90.0	53.2	84.2	52.2	78.5	51.7	
13.0	11.8	98.1	57.1	94.5	54.8	90.0	52.8	84.2	51.9	78.5	51.4	
90	-19.8	-20	70.5	73.1	70.1	73.3	70.0	71.3	68.9	70.2	65.6	67.2
	-18.8	-19	70.5	73.1	70.1	73.3	70.0	71.3	68.9	70.2	65.6	67.2
	-16.7	-17	70.5	73.0	70.1	73.3	70.0	71.2	68.9	70.1	65.6	67.2
	-13.7	-15	70.5	73.0	70.1	73.2	70.0	71.2	68.9	70.1	65.6	67.2
	-11.8	-13	70.5	72.9	70.1	73.2	70.0	71.2	68.9	70.1	65.6	67.1
	-9.8	-11	70.5	72.9	70.1	73.1	70.0	71.1	68.9	70.0	65.6	67.1
	-9.5	-10	70.5	72.9	70.1	73.1	70.0	71.1	68.9	70.0	65.6	67.1
	-8.5	-9.1	70.5	72.8	70.1	73.1	70.0	71.1	68.9	70.0	65.6	67.1
	-7.0	-7.6	70.5	72.8	70.1	73.0	70.0	71.0	68.9	69.9	65.6	67.0
	-5.0	-5.6	70.5	72.7	70.1	73.0	70.0	71.0	68.9	69.9	65.6	67.0
	-3.0	-3.7	70.5	71.1	70.1	71.4	70.0	69.4	68.9	68.3	65.6	65.5
	0.0	-0.7	70.5	64.6	70.1	64.4	70.0	63.2	68.9	61.2	65.6	59.8
	3.0	2.2	88.3	59.2	85.1	57.1	81.0	54.4	75.8	52.7	70.6	50.3
	5.0	4.1	88.3	55.5	85.1	53.6	81.0	50.6	75.8	49.0	70.6	46.7
7.0	6.0	88.3	53.9	85.1	52.1	81.0	49.1	75.8	47.5	70.6	45.4	
9.0	7.9	88.3	53.1	85.1	51.4	81.0	48.3	75.8	46.8	70.6	44.7	
11.0	9.8	88.3	52.6	85.1	50.5	81.0	47.9	75.8	46.4	70.6	44.3	
13.0	11.8	88.3	52.1	85.1	50.2	81.0	47.6	75.8	46.0	70.6	44.0	
80	-19.8	-20	62.6	65.0	62.3	65.2	62.2	63.4	61.2	62.4	58.3	59.7
	-18.8	-19	62.6	64.9	62.3	65.2	62.2	63.4	61.2	62.4	58.3	59.7
	-16.7	-17	62.6	64.9	62.3	65.1	62.2	63.3	61.2	62.3	58.3	59.7
	-13.7	-15	62.6	64.9	62.3	65.0	62.2	63.3	61.2	62.3	58.3	59.7
	-11.8	-13	62.6	64.8	62.3	65.0	62.2	63.3	61.2	62.3	58.3	59.7
	-9.8	-11	62.6	64.8	62.3	65.0	62.2	63.2	61.2	62.2	58.3	59.7
	-9.5	-10	62.6	64.8	62.3	65.0	62.2	63.2	61.2	62.3	58.3	59.6
	-8.5	-9.1	62.6	64.8	62.3	65.0	62.2	63.2	61.2	62.2	58.3	59.6
	-7.0	-7.6	62.6	64.7	62.3	64.9	62.2	63.1	61.2	62.2	58.3	59.6
	-5.0	-5.6	62.6	64.6	62.3	64.9	62.2	63.1	61.2	62.1	58.3	59.6
	-3.0	-3.7	62.6	63.2	62.3	63.4	62.2	61.7	61.2	60.7	58.3	58.2
	0.0	-0.7	62.6	57.4	62.3	57.2	62.2	56.2	61.2	54.4	58.3	53.1
	3.0	2.2	78.5	52.6	75.6	50.8	72.0	48.4	67.4	46.9	62.8	44.7
	5.0	4.1	78.5	49.3	75.6	47.6	72.0	44.9	67.4	43.5	62.8	41.6
7.0	6.0	78.5	47.9	75.6	46.3	72.0	43.6	67.4	42.2	62.8	40.3	
9.0	7.9	78.5	47.2	75.6	45.7	72.0	42.9	67.4	41.6	62.8	39.7	
11.0	9.8	78.5	46.8	75.6	44.9	72.0	42.5	67.4	41.2	62.8	39.3	
13.0	11.8	78.5	46.3	75.6	44.7	72.0	42.3	67.4	40.9	62.8	39.1	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
70	-19.8	-20	54.8	56.9	54.5	57.0	54.4	55.5	53.6	54.6	51.0	52.3
	-18.8	-19	54.8	56.8	54.5	57.0	54.4	55.4	53.6	54.6	51.0	52.2
	-16.7	-17	54.8	56.8	54.5	57.0	54.4	55.4	53.6	54.5	51.0	52.2
	-13.7	-15	54.8	56.8	54.5	56.9	54.4	55.4	53.6	54.5	51.0	52.2
	-11.8	-13	54.8	56.7	54.5	56.9	54.4	55.4	53.6	54.5	51.0	52.2
	-9.8	-11	54.8	56.7	54.5	56.9	54.4	55.3	53.6	54.4	51.0	52.2
	-9.5	-10	54.8	56.7	54.5	56.9	54.4	55.3	53.6	54.5	51.0	52.2
	-8.5	-9.1	54.8	56.7	54.5	56.8	54.4	55.3	53.6	54.4	51.0	52.2
	-7.0	-7.6	54.8	56.6	54.5	56.8	54.4	55.3	53.6	54.4	51.0	52.1
	-5.0	-5.6	54.8	56.6	54.5	56.7	54.4	55.2	53.6	54.4	51.0	52.1
	-3.0	-3.7	54.8	55.3	54.5	55.5	54.4	54.0	53.6	53.1	51.0	50.9
	0.0	-0.7	54.8	50.2	54.5	50.1	54.4	49.2	53.6	47.6	51.0	46.5
	3.0	2.2	68.7	46.0	66.2	44.4	63.0	42.3	59.0	41.0	54.9	39.2
	5.0	4.1	68.7	43.1	66.2	41.7	63.0	39.3	59.0	38.1	54.9	36.4
7.0	6.0	68.7	41.9	66.2	40.5	63.0	38.2	59.0	37.0	54.9	35.3	
9.0	7.9	68.7	41.3	66.2	40.0	63.0	37.6	59.0	36.4	54.9	34.8	
11.0	9.8	68.7	40.9	66.2	39.3	63.0	37.2	59.0	36.1	54.9	34.4	
13.0	11.8	68.7	40.5	66.2	39.1	63.0	37.0	59.0	35.8	54.9	34.2	
60	-19.8	-20	47.0	48.7	46.7	48.9	46.7	47.6	45.9	46.8	43.7	44.8
	-18.8	-19	47.0	48.7	46.7	48.9	46.7	47.5	45.9	46.8	43.7	44.8
	-16.7	-17	47.0	48.7	46.7	48.8	46.7	47.5	45.9	46.8	43.7	44.8
	-13.7	-15	47.0	48.6	46.7	48.8	46.7	47.5	45.9	46.7	43.7	44.8
	-11.8	-13	47.0	48.6	46.7	48.8	46.7	47.4	45.9	46.7	43.7	44.7
	-9.8	-11	47.0	48.6	46.7	48.8	46.7	47.4	45.9	46.6	43.7	44.7
	-9.5	-10	47.0	48.6	46.7	48.7	46.7	47.4	45.9	46.7	43.7	44.7
	-8.5	-9.1	47.0	48.6	46.7	48.7	46.7	47.4	45.9	46.7	43.7	44.7
	-7.0	-7.6	47.0	48.5	46.7	48.7	46.7	47.4	45.9	46.6	43.7	44.7
	-5.0	-5.6	47.0	48.5	46.7	48.6	46.7	47.3	45.9	46.6	43.7	44.7
	-3.0	-3.7	47.0	47.4	46.7	47.6	46.7	46.3	45.9	45.5	43.7	43.6
	0.0	-0.7	47.0	43.1	46.7	42.9	46.7	42.2	45.9	40.8	43.7	39.8
	3.0	2.2	58.9	39.5	56.7	38.1	54.0	36.3	50.5	35.2	47.1	33.6
	5.0	4.1	58.9	37.0	56.7	35.7	54.0	33.7	50.5	32.6	47.1	31.2
7.0	6.0	58.9	35.9	56.7	34.7	54.0	32.7	50.5	31.7	47.1	30.3	
9.0	7.9	58.9	35.4	56.7	34.3	54.0	32.2	50.5	31.2	47.1	29.8	
11.0	9.8	58.9	35.1	56.7	33.7	54.0	31.9	50.5	30.9	47.1	29.5	
13.0	11.8	58.9	34.7	56.7	33.5	54.0	31.7	50.5	30.7	47.1	29.3	
50	-19.8	-20	39.2	40.6	38.9	40.7	38.9	39.6	38.3	39.0	36.5	37.3
	-18.8	-19	39.2	40.6	38.9	40.7	38.9	39.6	38.3	39.0	36.5	37.3
	-16.7	-17	39.2	40.6	38.9	40.7	38.9	39.6	38.3	39.0	36.5	37.3
	-13.7	-15	39.2	40.5	38.9	40.7	38.9	39.6	38.3	38.9	36.5	37.3
	-11.8	-13	39.2	40.5	38.9	40.7	38.9	39.5	38.3	38.9	36.5	37.3
	-9.8	-11	39.2	40.5	38.9	40.6	38.9	39.5	38.3	38.9	36.5	37.3
	-9.5	-10	39.2	40.5	38.9	40.6	38.9	39.5	38.3	38.9	36.5	37.3
	-8.5	-9.1	39.2	40.5	38.9	40.6	38.9	39.5	38.3	38.9	36.5	37.3
	-7.0	-7.6	39.2	40.4	38.9	40.6	38.9	39.5	38.3	38.9	36.5	37.2
	-5.0	-5.6	39.2	40.4	38.9	40.5	38.9	39.4	38.3	38.8	36.5	37.2
	-3.0	-3.7	39.2	39.5	38.9	39.7	38.9	38.6	38.3	37.9	36.5	36.4
	0.0	-0.7	39.2	35.9	38.9	35.8	38.9	35.1	38.3	34.0	36.5	33.2
	3.0	2.2	49.1	32.9	47.3	31.7	45.0	30.2	42.1	29.3	39.2	28.0
	5.0	4.1	49.1	30.8	47.3	29.8	45.0	28.1	42.1	27.2	39.2	26.0
7.0	6.0	49.1	29.9	47.3	28.9	45.0	27.3	42.1	26.4	39.2	25.2	
9.0	7.9	49.1	29.5	47.3	28.5	45.0	26.8	42.1	26.0	39.2	24.8	
11.0	9.8	49.1	29.2	47.3	28.1	45.0	26.6	42.1	25.8	39.2	24.6	
13.0	11.8	49.1	28.9	47.3	27.9	45.0	26.4	42.1	25.6	39.2	24.4	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

◆ 30HP

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
130	-19.8	-20	89.1	88.8	88.6	88.5	88.5	87.7	87.1	87.6	83.0	86.9
	-18.8	-19	89.1	88.7	88.6	88.4	88.5	87.7	87.1	87.6	83.0	86.8
	-16.7	-17	89.1	88.7	88.6	88.4	88.5	87.6	87.1	87.5	83.0	86.8
	-13.7	-15	89.1	88.6	88.6	88.3	88.5	87.6	87.1	87.5	83.0	86.8
	-11.8	-13	89.1	88.6	88.6	88.3	88.5	87.5	87.1	87.4	83.0	86.8
	-9.8	-11	89.1	88.5	88.6	88.2	88.5	87.5	87.1	87.3	83.0	86.8
	-9.5	-10	89.1	88.5	88.6	88.2	88.5	87.5	87.1	87.4	83.0	86.7
	-8.5	-9.1	89.1	88.5	88.6	88.2	88.5	87.4	87.1	87.3	83.0	86.7
	-7.0	-7.6	89.1	88.4	88.6	88.1	88.5	87.4	87.1	87.2	83.0	86.7
	-5.0	-5.6	89.1	88.3	88.6	88.0	88.5	87.3	87.1	87.2	83.0	86.6
	-3.0	-3.7	89.1	86.4	88.6	86.1	88.5	85.4	87.1	85.2	83.0	84.6
	0.0	-0.7	89.1	78.4	88.6	77.6	88.5	77.8	87.1	76.3	83.0	77.3
	3.0	2.2	111.7	71.9	107.6	68.9	102.4	67.0	95.9	65.8	89.3	65.1
	5.0	4.1	111.7	67.4	107.6	64.7	102.4	62.2	95.9	61.1	89.3	60.4
	7.0	6.0	111.7	65.5	107.6	62.8	102.4	60.4	95.9	59.3	89.3	58.7
120	9.0	7.9	114.6	64.5	110.4	62.0	105.2	59.4	98.5	58.4	91.8	57.8
	11.0	9.8	115.4	63.9	111.1	61.0	105.9	58.9	99.1	57.8	92.3	57.2
	13.0	11.8	116.1	63.2	111.9	60.6	106.6	58.5	99.8	57.4	92.9	56.9
	-19.8	-20	86.3	87.5	85.8	87.3	85.7	86.5	84.4	86.4	80.4	85.7
	-18.8	-19	86.3	87.5	85.8	87.2	85.7	86.5	84.4	86.3	80.4	85.6
	-16.7	-17	86.3	87.4	85.8	87.2	85.7	86.4	84.4	86.3	80.4	85.6
	-13.7	-15	86.3	87.4	85.8	87.1	85.7	86.4	84.4	86.2	80.4	85.6
	-11.8	-13	86.3	87.3	85.8	87.1	85.7	86.3	84.4	86.2	80.4	85.6
	-9.8	-11	86.3	87.3	85.8	87.0	85.7	86.3	84.4	86.1	80.4	85.6
	-9.5	-10	86.3	87.3	85.8	87.0	85.7	86.3	84.4	86.2	80.4	85.5
	-8.5	-9.1	86.3	87.2	85.8	87.0	85.7	86.2	84.4	86.1	80.4	85.5
	-7.0	-7.6	86.3	87.2	85.8	86.9	85.7	86.2	84.4	86.0	80.4	85.5
	-5.0	-5.6	86.3	87.1	85.8	86.8	85.7	86.1	84.4	86.0	80.4	85.4
	-3.0	-3.7	86.3	85.2	85.8	84.9	85.7	84.2	84.4	84.0	80.4	83.5
	0.0	-0.7	86.3	77.3	85.8	76.6	85.7	76.7	84.4	75.2	80.4	76.2
110	3.0	2.2	108.2	70.9	104.2	68.0	99.2	66.0	92.9	64.9	86.5	64.2
	5.0	4.1	108.2	66.4	104.2	63.8	99.2	61.3	92.9	60.2	86.5	59.6
	7.0	6.0	108.2	64.6	104.2	61.9	99.2	59.5	92.9	58.5	86.5	57.9
	9.0	7.9	110.4	63.6	106.3	61.1	101.3	58.6	94.8	57.5	88.3	57.0
	11.0	9.8	111.1	63.0	107.0	60.1	101.9	58.0	95.4	57.0	88.9	56.4
	13.0	11.8	111.8	62.4	107.7	59.8	102.6	57.7	96.0	56.6	89.4	56.1
	-19.8	-20	83.7	86.3	83.2	86.1	83.1	85.3	81.8	85.2	77.9	84.5
	-18.8	-19	83.7	86.3	83.2	86.0	83.1	85.3	81.8	85.1	77.9	84.4
	-16.7	-17	83.7	86.2	83.2	86.0	83.1	85.2	81.8	85.1	77.9	84.4
	-13.7	-15	83.7	86.2	83.2	85.9	83.1	85.2	81.8	85.0	77.9	84.4
	-11.8	-13	83.7	86.1	83.2	85.9	83.1	85.1	81.8	85.0	77.9	84.4
	-9.8	-11	83.7	86.1	83.2	85.8	83.1	85.1	81.8	84.9	77.9	84.4
	-9.5	-10	83.7	86.1	83.2	85.8	83.1	85.1	81.8	85.0	77.9	84.3
	-8.5	-9.1	83.7	86.0	83.2	85.8	83.1	85.0	81.8	84.9	77.9	84.3
	-7.0	-7.6	83.7	86.0	83.2	85.7	83.1	85.0	81.8	84.8	77.9	84.3
-5.0	-5.6	83.7	85.9	83.2	85.6	83.1	84.9	81.8	84.8	77.9	84.2	
-3.0	-3.7	83.7	84.0	83.2	83.7	83.1	83.0	81.8	82.8	77.9	82.3	
0.0	-0.7	83.7	76.3	83.2	75.5	83.1	75.6	81.8	74.2	77.9	75.1	
3.0	2.2	104.8	69.9	101.0	67.0	96.2	65.1	90.0	64.0	83.9	63.3	
5.0	4.1	104.8	65.5	101.0	62.9	96.2	60.5	90.0	59.4	83.9	58.8	
7.0	6.0	104.8	63.7	101.0	61.1	96.2	58.7	90.0	57.7	83.9	57.1	
9.0	7.9	106.3	62.7	102.4	60.3	97.5	57.8	91.3	56.7	85.0	56.2	
11.0	9.8	107.0	62.1	103.0	59.3	98.1	57.2	91.9	56.2	85.6	55.6	
13.0	11.8	107.7	61.5	103.7	58.9	98.8	56.9	92.5	55.8	86.1	55.3	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
100	-19.8	-20	82.7	85.1	82.2	84.8	82.1	84.1	80.8	84.0	77.0	83.3
	-18.8	-19	82.7	85.0	82.2	84.8	82.1	84.1	80.8	83.9	77.0	83.2
	-16.7	-17	82.7	85.0	82.2	84.7	82.1	84.0	80.8	83.9	77.0	83.2
	-13.7	-15	82.7	84.9	82.2	84.6	82.1	84.0	80.8	83.8	77.0	83.2
	-11.8	-13	82.7	84.9	82.2	84.6	82.1	83.9	80.8	83.8	77.0	83.2
	-9.8	-11	82.7	84.8	82.2	84.6	82.1	83.9	80.8	83.7	77.0	83.2
	-9.5	-10	82.7	84.8	82.2	84.6	82.1	83.9	80.8	83.8	77.0	83.1
	-8.5	-9.1	82.7	84.8	82.2	84.5	82.1	83.8	80.8	83.7	77.0	83.1
	-7.0	-7.6	82.7	84.7	82.2	84.5	82.1	83.8	80.8	83.6	77.0	83.1
	-5.0	-5.6	82.7	84.7	82.2	84.4	82.1	83.7	80.8	83.6	77.0	83.0
	-3.0	-3.7	82.7	82.8	82.2	82.5	82.1	81.9	80.8	81.7	77.0	81.1
	0.0	-0.7	82.7	75.2	82.2	74.4	82.1	74.5	80.8	73.1	77.0	74.1
	3.0	2.2	103.6	68.9	99.8	66.1	95.0	64.2	88.9	63.1	82.8	62.4
	5.0	4.1	103.6	64.6	99.8	62.0	95.0	59.6	88.9	58.6	82.8	57.9
7.0	6.0	103.6	62.7	99.8	60.2	95.0	57.9	88.9	56.8	82.8	56.3	
9.0	7.9	103.6	61.8	99.8	59.4	95.0	56.9	88.9	55.9	82.8	55.4	
11.0	9.8	103.6	61.2	99.8	58.5	95.0	56.4	88.9	55.4	82.8	54.8	
13.0	11.8	103.6	60.6	99.8	58.1	95.0	56.1	88.9	55.0	82.8	54.5	
90	-19.8	-20	74.4	77.6	74.0	77.8	73.9	75.7	72.7	74.5	69.3	71.3
	-18.8	-19	74.4	77.5	74.0	77.8	73.9	75.6	72.7	74.5	69.3	71.3
	-16.7	-17	74.4	77.5	74.0	77.7	73.9	75.6	72.7	74.4	69.3	71.3
	-13.7	-15	74.4	77.4	74.0	77.6	73.9	75.6	72.7	74.4	69.3	71.3
	-11.8	-13	74.4	77.4	74.0	77.6	73.9	75.5	72.7	74.3	69.3	71.2
	-9.8	-11	74.4	77.3	74.0	77.6	73.9	75.5	72.7	74.2	69.3	71.2
	-9.5	-10	74.4	77.3	74.0	77.6	73.9	75.5	72.7	74.3	69.3	71.2
	-8.5	-9.1	74.4	77.3	74.0	77.6	73.9	75.4	72.7	74.3	69.3	71.2
	-7.0	-7.6	74.4	77.3	74.0	77.5	73.9	75.4	72.7	74.2	69.3	71.1
	-5.0	-5.6	74.4	77.2	74.0	77.4	73.9	75.3	72.7	74.2	69.3	71.1
	-3.0	-3.7	74.4	75.5	74.0	75.7	73.9	73.7	72.7	72.5	69.3	69.5
	0.0	-0.7	74.4	68.5	74.0	68.3	73.9	67.1	72.7	64.9	69.3	63.4
	3.0	2.2	93.2	62.8	89.8	60.6	85.5	57.8	80.0	56.0	74.6	53.4
	5.0	4.1	93.2	58.9	89.8	56.9	85.5	53.6	80.0	52.0	74.6	49.6
7.0	6.0	93.2	57.2	89.8	55.2	85.5	52.1	80.0	50.4	74.6	48.2	
9.0	7.9	93.2	56.4	89.8	54.5	85.5	51.3	80.0	49.6	74.6	47.4	
11.0	9.8	93.2	55.8	89.8	53.6	85.5	50.8	80.0	49.2	74.6	47.0	
13.0	11.8	93.2	55.2	89.8	53.3	85.5	50.5	80.0	48.8	74.6	46.7	
80	-19.8	-20	66.1	69.0	65.7	69.2	65.7	67.3	64.6	66.2	61.6	63.4
	-18.8	-19	66.1	68.9	65.7	69.1	65.7	67.2	64.6	66.2	61.6	63.3
	-16.7	-17	66.1	68.9	65.7	69.1	65.7	67.2	64.6	66.2	61.6	63.3
	-13.7	-15	66.1	68.8	65.7	69.0	65.7	67.2	64.6	66.1	61.6	63.3
	-11.8	-13	66.1	68.8	65.7	69.0	65.7	67.1	64.6	66.1	61.6	63.3
	-9.8	-11	66.1	68.7	65.7	69.0	65.7	67.1	64.6	66.0	61.6	63.3
	-9.5	-10	66.1	68.7	65.7	69.0	65.7	67.1	64.6	66.1	61.6	63.3
	-8.5	-9.1	66.1	68.7	65.7	68.9	65.7	67.0	64.6	66.0	61.6	63.3
	-7.0	-7.6	66.1	68.7	65.7	68.9	65.7	67.0	64.6	66.0	61.6	63.2
	-5.0	-5.6	66.1	68.6	65.7	68.8	65.7	67.0	64.6	65.9	61.6	63.2
	-3.0	-3.7	66.1	67.1	65.7	67.3	65.7	65.5	64.6	64.4	61.6	61.7
	0.0	-0.7	66.1	60.9	65.7	60.7	65.7	59.6	64.6	57.7	61.6	56.4
	3.0	2.2	82.8	55.8	79.8	53.9	76.0	51.3	71.1	49.7	66.3	47.5
	5.0	4.1	82.8	52.3	79.8	50.6	76.0	47.7	71.1	46.2	66.3	44.1
7.0	6.0	82.8	50.8	79.8	49.1	76.0	46.3	71.1	44.8	66.3	42.8	
9.0	7.9	82.8	50.1	79.8	48.5	76.0	45.6	71.1	44.1	66.3	42.2	
11.0	9.8	82.8	49.6	79.8	47.7	76.0	45.1	71.1	43.7	66.3	41.7	
13.0	11.8	82.8	49.1	79.8	47.4	76.0	44.9	71.1	43.4	66.3	41.5	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
70	-19.8	-20	57.9	60.3	57.5	60.5	57.5	58.9	56.5	58.0	53.9	55.5
	-18.8	-19	57.9	60.3	57.5	60.5	57.5	58.8	56.5	57.9	53.9	55.4
	-16.7	-17	57.9	60.3	57.5	60.5	57.5	58.8	56.5	57.9	53.9	55.4
	-13.7	-15	57.9	60.2	57.5	60.4	57.5	58.8	56.5	57.8	53.9	55.4
	-11.8	-13	57.9	60.2	57.5	60.4	57.5	58.7	56.5	57.8	53.9	55.4
	-9.8	-11	57.9	60.2	57.5	60.4	57.5	58.7	56.5	57.7	53.9	55.4
	-9.5	-10	57.9	60.2	57.5	60.3	57.5	58.7	56.5	57.8	53.9	55.4
	-8.5	-9.1	57.9	60.1	57.5	60.3	57.5	58.7	56.5	57.8	53.9	55.4
	-7.0	-7.6	57.9	60.1	57.5	60.3	57.5	58.6	56.5	57.7	53.9	55.3
	-5.0	-5.6	57.9	60.0	57.5	60.2	57.5	58.6	56.5	57.7	53.9	55.3
	-3.0	-3.7	57.9	58.7	57.5	58.9	57.5	57.3	56.5	56.4	53.9	54.0
	0.0	-0.7	57.9	53.3	57.5	53.1	57.5	52.2	56.5	50.5	53.9	49.3
	3.0	2.2	72.5	48.8	69.8	47.1	66.5	44.9	62.2	43.5	58.0	41.5
	5.0	4.1	72.5	45.8	69.8	44.2	66.5	41.7	62.2	40.4	58.0	38.6
7.0	6.0	72.5	44.5	69.8	43.0	66.5	40.5	62.2	39.2	58.0	37.5	
9.0	7.9	72.5	43.8	69.8	42.4	66.5	39.9	62.2	38.6	58.0	36.9	
11.0	9.8	72.5	43.4	69.8	41.7	66.5	39.5	62.2	38.3	58.0	36.5	
13.0	11.8	72.5	43.0	69.8	41.5	66.5	39.3	62.2	38.0	58.0	36.3	
60	-19.8	-20	49.6	51.7	49.3	51.9	49.2	50.5	48.5	49.7	46.2	47.5
	-18.8	-19	49.6	51.7	49.3	51.9	49.2	50.4	48.5	49.6	46.2	47.5
	-16.7	-17	49.6	51.7	49.3	51.8	49.2	50.4	48.5	49.6	46.2	47.5
	-13.7	-15	49.6	51.6	49.3	51.8	49.2	50.4	48.5	49.6	46.2	47.5
	-11.8	-13	49.6	51.6	49.3	51.8	49.2	50.3	48.5	49.6	46.2	47.5
	-9.8	-11	49.6	51.6	49.3	51.7	49.2	50.3	48.5	49.5	46.2	47.5
	-9.5	-10	49.6	51.6	49.3	51.7	49.2	50.3	48.5	49.6	46.2	47.5
	-8.5	-9.1	49.6	51.5	49.3	51.7	49.2	50.3	48.5	49.5	46.2	47.5
	-7.0	-7.6	49.6	51.5	49.3	51.7	49.2	50.3	48.5	49.5	46.2	47.4
	-5.0	-5.6	49.6	51.4	49.3	51.6	49.2	50.2	48.5	49.4	46.2	47.4
	-3.0	-3.7	49.6	50.3	49.3	50.5	49.2	49.1	48.5	48.3	46.2	46.3
	0.0	-0.7	49.6	45.7	49.3	45.5	49.2	44.7	48.5	43.3	46.2	42.3
	3.0	2.2	62.1	41.9	59.9	40.4	57.0	38.5	53.4	37.3	49.7	35.6
	5.0	4.1	62.1	39.2	59.9	37.9	57.0	35.8	53.4	34.6	49.7	33.1
7.0	6.0	62.1	38.1	59.9	36.8	57.0	34.7	53.4	33.6	49.7	32.1	
9.0	7.9	62.1	37.6	59.9	36.3	57.0	34.2	53.4	33.1	49.7	31.6	
11.0	9.8	62.1	37.2	59.9	35.8	57.0	33.9	53.4	32.8	49.7	31.3	
13.0	11.8	62.1	36.8	59.9	35.5	57.0	33.6	53.4	32.6	49.7	31.1	
50	-19.8	-20	41.3	43.1	41.1	43.2	41.0	42.1	40.4	41.4	38.5	39.6
	-18.8	-19	41.3	43.1	41.1	43.2	41.0	42.0	40.4	41.4	38.5	39.6
	-16.7	-17	41.3	43.0	41.1	43.2	41.0	42.0	40.4	41.3	38.5	39.6
	-13.7	-15	41.3	43.0	41.1	43.1	41.0	42.0	40.4	41.3	38.5	39.6
	-11.8	-13	41.3	43.0	41.1	43.1	41.0	42.0	40.4	41.3	38.5	39.6
	-9.8	-11	41.3	43.0	41.1	43.1	41.0	41.9	40.4	41.2	38.5	39.6
	-9.5	-10	41.3	43.0	41.1	43.1	41.0	41.9	40.4	41.3	38.5	39.5
	-8.5	-9.1	41.3	42.9	41.1	43.1	41.0	41.9	40.4	41.3	38.5	39.5
	-7.0	-7.6	41.3	42.9	41.1	43.1	41.0	41.9	40.4	41.2	38.5	39.5
	-5.0	-5.6	41.3	42.9	41.1	43.0	41.0	41.9	40.4	41.2	38.5	39.5
	-3.0	-3.7	41.3	41.9	41.1	42.1	41.0	40.9	40.4	40.3	38.5	38.6
	0.0	-0.7	41.3	38.1	41.1	37.9	41.0	37.3	40.4	36.1	38.5	35.2
	3.0	2.2	51.8	34.9	49.9	33.7	47.5	32.1	44.5	31.1	41.4	29.7
	5.0	4.1	51.8	32.7	49.9	31.6	47.5	29.8	44.5	28.9	41.4	27.6
7.0	6.0	51.8	31.8	49.9	30.7	47.5	28.9	44.5	28.0	41.4	26.8	
9.0	7.9	51.8	31.3	49.9	30.3	47.5	28.5	44.5	27.6	41.4	26.3	
11.0	9.8	51.8	31.0	49.9	29.8	47.5	28.2	44.5	27.3	41.4	26.1	
13.0	11.8	51.8	30.7	49.9	29.6	47.5	28.0	44.5	27.1	41.4	25.9	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

◆ 32HP

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
130	-19.8	-20	93.8	94.5	93.3	94.2	93.2	93.4	91.7	93.3	87.3	92.5
	-18.8	-19	93.8	94.5	93.3	94.1	93.2	93.4	91.7	93.2	87.3	92.4
	-16.7	-17	93.8	94.4	93.3	94.1	93.2	93.3	91.7	93.2	87.3	92.4
	-13.7	-15	93.8	94.3	93.3	94.0	93.2	93.2	91.7	93.1	87.3	92.4
	-11.8	-13	93.8	94.3	93.3	94.0	93.2	93.2	91.7	93.0	87.3	92.4
	-9.8	-11	93.8	94.2	93.3	93.9	93.2	93.1	91.7	92.9	87.3	92.4
	-9.5	-10	93.8	94.2	93.3	93.9	93.2	93.1	91.7	93.0	87.3	92.3
	-8.5	-9.1	93.8	94.2	93.3	93.9	93.2	93.1	91.7	93.0	87.3	92.3
	-7.0	-7.6	93.8	94.1	93.3	93.8	93.2	93.0	91.7	92.9	87.3	92.3
	-5.0	-5.6	93.8	94.0	93.3	93.7	93.2	93.0	91.7	92.8	87.3	92.2
	-3.0	-3.7	93.8	92.0	93.3	91.7	93.2	90.9	91.7	90.7	87.3	90.1
	0.0	-0.7	93.8	83.5	93.3	82.7	93.2	82.8	91.7	81.2	87.3	82.3
	3.0	2.2	117.5	76.5	113.2	73.4	107.8	71.3	100.9	70.0	94.0	69.3
	5.0	4.1	117.5	71.7	113.2	68.9	107.8	66.2	100.9	65.0	94.0	64.3
	7.0	6.0	117.5	69.7	113.2	66.9	107.8	64.3	100.9	63.1	94.0	62.5
120	9.0	7.9	120.6	68.7	116.3	66.0	110.7	63.2	103.7	62.1	96.6	61.5
	11.0	9.8	121.5	68.0	117.0	64.9	111.4	62.7	104.3	61.6	97.2	60.9
	13.0	11.8	122.2	67.3	117.8	64.5	112.2	62.3	105.0	61.1	97.8	60.5
	-19.8	-20	90.9	93.2	90.4	92.9	90.3	92.1	88.8	92.0	84.6	91.2
	-18.8	-19	90.9	93.1	90.4	92.8	90.3	92.1	88.8	91.9	84.6	91.1
	-16.7	-17	90.9	93.1	90.4	92.8	90.3	92.0	88.8	91.9	84.6	91.1
	-13.7	-15	90.9	93.0	90.4	92.7	90.3	91.9	88.8	91.8	84.6	91.1
	-11.8	-13	90.9	93.0	90.4	92.7	90.3	91.9	88.8	91.8	84.6	91.1
	-9.8	-11	90.9	92.9	90.4	92.6	90.3	91.8	88.8	91.6	84.6	91.1
	-9.5	-10	90.9	92.9	90.4	92.6	90.3	91.8	88.8	91.7	84.6	91.0
	-8.5	-9.1	90.9	92.9	90.4	92.6	90.3	91.8	88.8	91.7	84.6	91.0
	-7.0	-7.6	90.9	92.8	90.4	92.5	90.3	91.7	88.8	91.6	84.6	91.0
	-5.0	-5.6	90.9	92.7	90.4	92.4	90.3	91.7	88.8	91.5	84.6	90.9
	-3.0	-3.7	90.9	90.7	90.4	90.4	90.3	89.6	88.8	89.4	84.6	88.8
	0.0	-0.7	90.9	82.3	90.4	81.5	90.3	81.6	88.8	80.1	84.6	81.1
3.0	2.2	113.9	75.5	109.7	72.4	104.5	70.3	97.8	69.1	91.1	68.3	
5.0	4.1	113.9	70.7	109.7	67.9	104.5	65.3	97.8	64.1	91.1	63.4	
7.0	6.0	113.9	68.7	109.7	65.9	104.5	63.4	97.8	62.2	91.1	61.6	
9.0	7.9	116.2	67.7	111.9	65.1	106.6	62.4	99.8	61.3	93.0	60.7	
11.0	9.8	117.0	67.1	112.7	64.0	107.3	61.8	100.4	60.7	93.6	60.1	
13.0	11.8	117.7	66.4	113.4	63.6	108.0	61.4	101.1	60.3	94.2	59.7	
110	-19.8	-20	88.1	91.9	87.6	91.6	87.5	90.8	86.1	90.7	82.0	89.9
	-18.8	-19	88.1	91.9	87.6	91.6	87.5	90.8	86.1	90.6	82.0	89.9
	-16.7	-17	88.1	91.8	87.6	91.5	87.5	90.7	86.1	90.6	82.0	89.9
	-13.7	-15	88.1	91.7	87.6	91.4	87.5	90.7	86.1	90.5	82.0	89.9
	-11.8	-13	88.1	91.7	87.6	91.4	87.5	90.6	86.1	90.5	82.0	89.8
	-9.8	-11	88.1	91.6	87.6	91.3	87.5	90.6	86.1	90.4	82.0	89.8
	-9.5	-10	88.1	91.6	87.6	91.3	87.5	90.6	86.1	90.5	82.0	89.8
	-8.5	-9.1	88.1	91.6	87.6	91.3	87.5	90.5	86.1	90.4	82.0	89.8
	-7.0	-7.6	88.1	91.5	87.6	91.2	87.5	90.5	86.1	90.3	82.0	89.7
	-5.0	-5.6	88.1	91.4	87.6	91.1	87.5	90.4	86.1	90.3	82.0	89.7
	-3.0	-3.7	88.1	89.4	87.6	89.2	87.5	88.4	86.1	88.2	82.0	87.6
	0.0	-0.7	88.1	81.2	87.6	80.4	87.5	80.5	86.1	79.0	82.0	80.0
	3.0	2.2	110.4	74.4	106.3	71.4	101.3	69.3	94.8	68.1	88.3	67.4
	5.0	4.1	110.4	69.7	106.3	67.0	101.3	64.4	94.8	63.2	88.3	62.6
	7.0	6.0	110.4	67.8	106.3	65.0	101.3	62.5	94.8	61.4	88.3	60.8
9.0	7.9	111.9	66.8	107.8	64.2	102.6	61.5	96.1	60.4	89.5	59.8	
11.0	9.8	112.6	66.1	108.5	63.1	103.3	60.9	96.7	59.9	90.1	59.2	
13.0	11.8	113.4	65.5	109.2	62.7	104.0	60.6	97.3	59.5	90.7	58.9	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
100	-19.8	-20	87.0	90.6	86.5	90.3	86.4	89.5	85.0	89.4	81.0	88.6
	-18.8	-19	87.0	90.5	86.5	90.2	86.4	89.5	85.0	89.3	81.0	88.6
	-16.7	-17	87.0	90.5	86.5	90.2	86.4	89.4	85.0	89.3	81.0	88.6
	-13.7	-15	87.0	90.4	86.5	90.1	86.4	89.4	85.0	89.2	81.0	88.6
	-11.8	-13	87.0	90.4	86.5	90.1	86.4	89.3	85.0	89.2	81.0	88.5
	-9.8	-11	87.0	90.3	86.5	90.0	86.4	89.3	85.0	89.1	81.0	88.5
	-9.5	-10	87.0	90.3	86.5	90.0	86.4	89.3	85.0	89.2	81.0	88.5
	-8.5	-9.1	87.0	90.3	86.5	90.0	86.4	89.2	85.0	89.1	81.0	88.5
	-7.0	-7.6	87.0	90.2	86.5	89.9	86.4	89.2	85.0	89.0	81.0	88.5
	-5.0	-5.6	87.0	90.1	86.5	89.8	86.4	89.1	85.0	89.0	81.0	88.4
	-3.0	-3.7	87.0	88.1	86.5	87.9	86.4	87.1	85.0	86.9	81.0	86.4
	0.0	-0.7	87.0	80.0	86.5	79.2	86.4	79.4	85.0	77.9	81.0	78.9
	3.0	2.2	109.0	73.3	105.0	70.3	100.0	68.3	93.6	67.1	87.2	66.4
	5.0	4.1	109.0	68.7	105.0	66.0	100.0	63.5	93.6	62.3	87.2	61.7
7.0	6.0	109.0	66.8	105.0	64.1	100.0	61.6	93.6	60.5	87.2	59.9	
9.0	7.9	109.0	65.8	105.0	63.3	100.0	60.6	93.6	59.5	87.2	59.0	
11.0	9.8	109.0	65.2	105.0	62.2	100.0	60.1	93.6	59.0	87.2	58.4	
13.0	11.8	109.0	64.5	105.0	61.9	100.0	59.7	93.6	58.6	87.2	58.0	
90	-19.8	-20	78.3	82.6	77.9	82.9	77.8	80.6	76.5	79.3	72.9	75.9
	-18.8	-19	78.3	82.5	77.9	82.8	77.8	80.5	76.5	79.3	72.9	75.9
	-16.7	-17	78.3	82.5	77.9	82.8	77.8	80.5	76.5	79.2	72.9	75.9
	-13.7	-15	78.3	82.4	77.9	82.7	77.8	80.4	76.5	79.2	72.9	75.9
	-11.8	-13	78.3	82.4	77.9	82.7	77.8	80.4	76.5	79.1	72.9	75.8
	-9.8	-11	78.3	82.3	77.9	82.6	77.8	80.3	76.5	79.0	72.9	75.8
	-9.5	-10	78.3	82.3	77.9	82.6	77.8	80.3	76.5	79.1	72.9	75.8
	-8.5	-9.1	78.3	82.3	77.9	82.6	77.8	80.3	76.5	79.1	72.9	75.8
	-7.0	-7.6	78.3	82.2	77.9	82.5	77.8	80.2	76.5	79.0	72.9	75.7
	-5.0	-5.6	78.3	82.1	77.9	82.4	77.8	80.2	76.5	78.9	72.9	75.7
	-3.0	-3.7	78.3	80.4	77.9	80.6	77.8	78.4	76.5	77.1	72.9	73.9
	0.0	-0.7	78.3	72.9	77.9	72.7	77.8	71.4	76.5	69.1	72.9	67.5
	3.0	2.2	98.1	66.9	94.5	64.5	90.0	61.5	84.2	59.6	78.5	56.9
	5.0	4.1	98.1	62.7	94.5	60.6	90.0	57.1	84.2	55.3	78.5	52.8
7.0	6.0	98.1	60.9	94.5	58.8	90.0	55.4	84.2	53.7	78.5	51.3	
9.0	7.9	98.1	60.0	94.5	58.0	90.0	54.6	84.2	52.8	78.5	50.5	
11.0	9.8	98.1	59.4	94.5	57.1	90.0	54.1	84.2	52.4	78.5	50.0	
13.0	11.8	98.1	58.8	94.5	56.7	90.0	53.7	84.2	52.0	78.5	49.7	
80	-19.8	-20	69.6	73.4	69.2	73.6	69.1	71.6	68.0	70.5	64.8	67.5
	-18.8	-19	69.6	73.4	69.2	73.6	69.1	71.6	68.0	70.5	64.8	67.4
	-16.7	-17	69.6	73.3	69.2	73.6	69.1	71.5	68.0	70.4	64.8	67.4
	-13.7	-15	69.6	73.3	69.2	73.5	69.1	71.5	68.0	70.4	64.8	67.4
	-11.8	-13	69.6	73.2	69.2	73.5	69.1	71.5	68.0	70.3	64.8	67.4
	-9.8	-11	69.6	73.2	69.2	73.4	69.1	71.4	68.0	70.2	64.8	67.4
	-9.5	-10	69.6	73.2	69.2	73.4	69.1	71.4	68.0	70.3	64.8	67.4
	-8.5	-9.1	69.6	73.1	69.2	73.4	69.1	71.4	68.0	70.3	64.8	67.4
	-7.0	-7.6	69.6	73.1	69.2	73.3	69.1	71.3	68.0	70.2	64.8	67.3
	-5.0	-5.6	69.6	73.0	69.2	73.3	69.1	71.3	68.0	70.2	64.8	67.3
	-3.0	-3.7	69.6	71.4	69.2	71.7	69.1	69.7	68.0	68.6	64.8	65.7
	0.0	-0.7	69.6	64.8	69.2	64.6	69.1	63.5	68.0	61.4	64.8	60.0
	3.0	2.2	87.2	59.4	84.0	57.4	80.0	54.7	74.9	52.9	69.8	50.5
	5.0	4.1	87.2	55.7	84.0	53.8	80.0	50.8	74.9	49.2	69.8	46.9
7.0	6.0	87.2	54.1	84.0	52.3	80.0	49.3	74.9	47.7	69.8	45.6	
9.0	7.9	87.2	53.3	84.0	51.6	80.0	48.5	74.9	47.0	69.8	44.9	
11.0	9.8	87.2	52.8	84.0	50.8	80.0	48.1	74.9	46.5	69.8	44.4	
13.0	11.8	87.2	52.3	84.0	50.4	80.0	47.8	74.9	46.2	69.8	44.2	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
70	-19.8	-20	60.9	64.2	60.6	64.4	60.5	62.7	59.5	61.7	56.7	59.0
	-18.8	-19	60.9	64.2	60.6	64.4	60.5	62.6	59.5	61.7	56.7	59.0
	-16.7	-17	60.9	64.2	60.6	64.4	60.5	62.6	59.5	61.6	56.7	59.0
	-13.7	-15	60.9	64.1	60.6	64.3	60.5	62.6	59.5	61.6	56.7	59.0
	-11.8	-13	60.9	64.1	60.6	64.3	60.5	62.5	59.5	61.5	56.7	59.0
	-9.8	-11	60.9	64.0	60.6	64.3	60.5	62.5	59.5	61.5	56.7	59.0
	-9.5	-10	60.9	64.0	60.6	64.2	60.5	62.5	59.5	61.5	56.7	58.9
	-8.5	-9.1	60.9	64.0	60.6	64.2	60.5	62.5	59.5	61.5	56.7	58.9
	-7.0	-7.6	60.9	64.0	60.6	64.2	60.5	62.4	59.5	61.4	56.7	58.9
	-5.0	-5.6	60.9	63.9	60.6	64.1	60.5	62.4	59.5	61.4	56.7	58.9
	-3.0	-3.7	60.9	62.5	60.6	62.7	60.5	61.0	59.5	60.0	56.7	57.5
	0.0	-0.7	60.9	56.7	60.6	56.5	60.5	55.5	59.5	53.7	56.7	52.5
	3.0	2.2	76.3	52.0	73.5	50.2	70.0	47.8	65.5	46.3	61.0	44.2
	5.0	4.1	76.3	48.7	73.5	47.1	70.0	44.4	65.5	43.0	61.0	41.1
7.0	6.0	76.3	47.4	73.5	45.7	70.0	43.1	65.5	41.8	61.0	39.9	
9.0	7.9	76.3	46.7	73.5	45.1	70.0	42.4	65.5	41.1	61.0	39.3	
11.0	9.8	76.3	46.2	73.5	44.4	70.0	42.0	65.5	40.7	61.0	38.9	
13.0	11.8	76.3	45.7	73.5	44.1	70.0	41.8	65.5	40.4	61.0	38.7	
60	-19.8	-20	52.2	55.1	51.9	55.2	51.8	53.7	51.0	52.9	48.6	50.6
	-18.8	-19	52.2	55.0	51.9	55.2	51.8	53.7	51.0	52.8	48.6	50.6
	-16.7	-17	52.2	55.0	51.9	55.2	51.8	53.7	51.0	52.8	48.6	50.6
	-13.7	-15	52.2	55.0	51.9	55.1	51.8	53.6	51.0	52.8	48.6	50.6
	-11.8	-13	52.2	54.9	51.9	55.1	51.8	53.6	51.0	52.8	48.6	50.5
	-9.8	-11	52.2	54.9	51.9	55.1	51.8	53.6	51.0	52.7	48.6	50.5
	-9.5	-10	52.2	54.9	51.9	55.1	51.8	53.6	51.0	52.7	48.6	50.5
	-8.5	-9.1	52.2	54.9	51.9	55.0	51.8	53.5	51.0	52.7	48.6	50.5
	-7.0	-7.6	52.2	54.8	51.9	55.0	51.8	53.5	51.0	52.7	48.6	50.5
	-5.0	-5.6	52.2	54.8	51.9	54.9	51.8	53.5	51.0	52.6	48.6	50.5
	-3.0	-3.7	52.2	53.6	51.9	53.8	51.8	52.3	51.0	51.4	48.6	49.3
	0.0	-0.7	52.2	48.6	51.9	48.5	51.8	47.6	51.0	46.1	48.6	45.0
	3.0	2.2	65.4	44.6	63.0	43.0	60.0	41.0	56.2	39.7	52.3	37.9
	5.0	4.1	65.4	41.8	63.0	40.4	60.0	38.1	56.2	36.9	52.3	35.2
7.0	6.0	65.4	40.6	63.0	39.2	60.0	37.0	56.2	35.8	52.3	34.2	
9.0	7.9	65.4	40.0	63.0	38.7	60.0	36.4	56.2	35.2	52.3	33.7	
11.0	9.8	65.4	39.6	63.0	38.1	60.0	36.0	56.2	34.9	52.3	33.3	
13.0	11.8	65.4	39.2	63.0	37.8	60.0	35.8	56.2	34.7	52.3	33.1	
50	-19.8	-20	43.5	45.9	43.3	46.0	43.2	44.8	42.5	44.1	40.5	42.2
	-18.8	-19	43.5	45.9	43.3	46.0	43.2	44.7	42.5	44.0	40.5	42.1
	-16.7	-17	43.5	45.8	43.3	46.0	43.2	44.7	42.5	44.0	40.5	42.1
	-13.7	-15	43.5	45.8	43.3	45.9	43.2	44.7	42.5	44.0	40.5	42.1
	-11.8	-13	43.5	45.8	43.3	45.9	43.2	44.7	42.5	44.0	40.5	42.1
	-9.8	-11	43.5	45.7	43.3	45.9	43.2	44.6	42.5	43.9	40.5	42.1
	-9.5	-10	43.5	45.7	43.3	45.9	43.2	44.6	42.5	44.0	40.5	42.1
	-8.5	-9.1	43.5	45.7	43.3	45.9	43.2	44.6	42.5	43.9	40.5	42.1
	-7.0	-7.6	43.5	45.7	43.3	45.8	43.2	44.6	42.5	43.9	40.5	42.1
	-5.0	-5.6	43.5	45.6	43.3	45.8	43.2	44.6	42.5	43.9	40.5	42.1
	-3.0	-3.7	43.5	44.6	43.3	44.8	43.2	43.6	42.5	42.9	40.5	41.1
	0.0	-0.7	43.5	40.5	43.3	40.4	43.2	39.7	42.5	38.4	40.5	37.5
	3.0	2.2	54.5	37.1	52.5	35.8	50.0	34.2	46.8	33.1	43.6	31.6
	5.0	4.1	54.5	34.8	52.5	33.6	50.0	31.7	46.8	30.7	43.6	29.3
7.0	6.0	54.5	33.8	52.5	32.7	50.0	30.8	46.8	29.8	43.6	28.5	
9.0	7.9	54.5	33.3	52.5	32.2	50.0	30.3	46.8	29.4	43.6	28.0	
11.0	9.8	54.5	33.0	52.5	31.7	50.0	30.0	46.8	29.1	43.6	27.8	
13.0	11.8	54.5	32.7	52.5	31.5	50.0	29.9	46.8	28.9	43.6	27.6	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

◆ 36HP

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
130	-19.8	-20	106.0	96.1	105.4	95.8	105.3	94.9	103.6	94.8	98.7	94.0
	-18.8	-19	106.0	96.0	105.4	95.7	105.3	94.9	103.6	94.7	98.7	93.9
	-16.7	-17	106.0	95.9	105.4	95.6	105.3	94.8	103.6	94.7	98.7	93.9
	-13.7	-15	106.0	95.9	105.4	95.5	105.3	94.8	103.6	94.6	98.7	93.9
	-11.8	-13	106.0	95.8	105.4	95.5	105.3	94.7	103.6	94.6	98.7	93.9
	-9.8	-11	106.0	95.8	105.4	95.5	105.3	94.7	103.6	94.4	98.7	93.9
	-9.5	-10	106.0	95.8	105.4	95.5	105.3	94.7	103.6	94.6	98.7	93.8
	-8.5	-9.1	106.0	95.7	105.4	95.4	105.3	94.6	103.6	94.5	98.7	93.8
	-7.0	-7.6	106.0	95.7	105.4	95.4	105.3	94.5	103.6	94.4	98.7	93.8
	-5.0	-5.6	106.0	95.6	105.4	95.2	105.3	94.5	103.6	94.3	98.7	93.7
	-3.0	-3.7	106.0	93.5	105.4	93.2	105.3	92.4	103.6	92.2	98.7	91.6
	0.0	-0.7	106.0	84.9	105.4	84.0	105.3	84.1	103.6	82.6	98.7	83.6
	3.0	2.2	132.8	77.8	127.9	74.6	121.9	72.4	114.1	71.2	106.3	70.4
	5.0	4.1	132.8	72.9	127.9	70.0	121.9	67.3	114.1	66.1	106.3	65.4
	7.0	6.0	132.8	70.8	127.9	68.0	121.9	65.3	114.1	64.1	106.3	63.5
120	9.0	7.9	136.3	69.8	131.4	67.1	125.1	64.3	117.1	63.1	109.1	62.5
	11.0	9.8	137.3	69.1	132.2	66.0	125.9	63.7	117.9	62.6	109.8	61.9
	13.0	11.8	138.1	68.4	133.1	65.6	126.8	63.3	118.7	62.1	110.5	61.5
	-19.8	-20	102.7	94.7	102.1	94.4	102.0	93.6	100.3	93.5	95.6	92.7
	-18.8	-19	102.7	94.7	102.1	94.4	102.0	93.6	100.3	93.4	95.6	92.6
	-16.7	-17	102.7	94.6	102.1	94.3	102.0	93.5	100.3	93.4	95.6	92.6
	-13.7	-15	102.7	94.6	102.1	94.2	102.0	93.5	100.3	93.3	95.6	92.6
	-11.8	-13	102.7	94.5	102.1	94.2	102.0	93.4	100.3	93.3	95.6	92.6
	-9.8	-11	102.7	94.4	102.1	94.1	102.0	93.3	100.3	93.1	95.6	92.6
	-9.5	-10	102.7	94.4	102.1	94.1	102.0	93.3	100.3	93.2	95.6	92.5
	-8.5	-9.1	102.7	94.4	102.1	94.1	102.0	93.3	100.3	93.2	95.6	92.5
	-7.0	-7.6	102.7	94.3	102.1	94.0	102.0	93.2	100.3	93.1	95.6	92.5
	-5.0	-5.6	102.7	94.2	102.1	93.9	102.0	93.2	100.3	93.0	95.6	92.4
	-3.0	-3.7	102.7	92.2	102.1	91.9	102.0	91.1	100.3	90.9	95.6	90.3
	0.0	-0.7	102.7	83.7	102.1	82.9	102.0	83.0	100.3	81.4	95.6	82.5
3.0	2.2	128.7	76.7	123.9	73.5	118.0	71.4	110.5	70.2	102.9	69.4	
5.0	4.1	128.7	71.9	123.9	69.0	118.0	66.4	110.5	65.2	102.9	64.5	
7.0	6.0	128.7	69.8	123.9	67.0	118.0	64.4	110.5	63.3	102.9	62.6	
9.0	7.9	131.3	68.8	126.5	66.1	120.5	63.4	112.8	62.3	105.0	61.7	
11.0	9.8	132.2	68.2	127.3	65.1	121.2	62.8	113.5	61.7	105.7	61.0	
13.0	11.8	133.0	67.5	128.1	64.7	122.0	62.4	114.2	61.3	106.4	60.7	
110	-19.8	-20	99.5	93.4	99.0	93.1	98.9	92.3	97.3	92.2	92.7	91.4
	-18.8	-19	99.5	93.4	99.0	93.1	98.9	92.3	97.3	92.1	92.7	91.4
	-16.7	-17	99.5	93.3	99.0	93.0	98.9	92.2	97.3	92.1	92.7	91.4
	-13.7	-15	99.5	93.2	99.0	92.9	98.9	92.2	97.3	92.0	92.7	91.4
	-11.8	-13	99.5	93.2	99.0	92.9	98.9	92.1	97.3	92.0	92.7	91.3
	-9.8	-11	99.5	93.1	99.0	92.8	98.9	92.1	97.3	91.8	92.7	91.3
	-9.5	-10	99.5	93.1	99.0	92.8	98.9	92.1	97.3	92.0	92.7	91.3
	-8.5	-9.1	99.5	93.1	99.0	92.8	98.9	92.0	97.3	91.9	92.7	91.3
	-7.0	-7.6	99.5	93.0	99.0	92.7	98.9	91.9	97.3	91.8	92.7	91.2
	-5.0	-5.6	99.5	92.9	99.0	92.6	98.9	91.9	97.3	91.7	92.7	91.2
	-3.0	-3.7	99.5	90.9	99.0	90.6	98.9	89.9	97.3	89.6	92.7	89.0
	0.0	-0.7	99.5	82.5	99.0	81.7	98.9	81.8	97.3	80.3	92.7	81.3
	3.0	2.2	124.7	75.6	120.1	72.5	114.4	70.5	107.1	69.2	99.8	68.5
	5.0	4.1	124.7	70.9	120.1	68.1	114.4	65.4	107.1	64.3	99.8	63.6
	7.0	6.0	124.7	68.9	120.1	66.1	114.4	63.5	107.1	62.4	99.8	61.8
9.0	7.9	126.4	67.9	121.8	65.2	116.0	62.5	108.5	61.4	101.1	60.8	
11.0	9.8	127.2	67.2	122.6	64.2	116.7	61.9	109.3	60.9	101.8	60.2	
13.0	11.8	128.1	66.5	123.4	63.8	117.5	61.6	110.0	60.4	102.5	59.8	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
100	-19.8	-20	98.3	92.1	97.7	91.8	97.6	91.0	96.1	90.9	91.5	90.1
	-18.8	-19	98.3	92.0	97.7	91.7	97.6	90.9	96.1	90.8	91.5	90.1
	-16.7	-17	98.3	92.0	97.7	91.7	97.6	90.9	96.1	90.8	91.5	90.1
	-13.7	-15	98.3	91.9	97.7	91.6	97.6	90.8	96.1	90.7	91.5	90.1
	-11.8	-13	98.3	91.9	97.7	91.6	97.6	90.8	96.1	90.6	91.5	90.0
	-9.8	-11	98.3	91.8	97.7	91.5	97.6	90.7	96.1	90.5	91.5	90.0
	-9.5	-10	98.3	91.8	97.7	91.5	97.6	90.7	96.1	90.6	91.5	90.0
	-8.5	-9.1	98.3	91.8	97.7	91.5	97.6	90.7	96.1	90.6	91.5	90.0
	-7.0	-7.6	98.3	91.7	97.7	91.4	97.6	90.6	96.1	90.5	91.5	89.9
	-5.0	-5.6	98.3	91.6	97.7	91.3	97.6	90.6	96.1	90.4	91.5	89.8
	-3.0	-3.7	98.3	89.6	97.7	89.3	97.6	88.6	96.1	88.4	91.5	87.8
	0.0	-0.7	98.3	81.3	97.7	80.5	97.6	80.7	96.1	79.1	91.5	80.1
	3.0	2.2	123.2	74.5	118.7	71.5	113.0	69.4	105.8	68.2	98.5	67.5
	5.0	4.1	123.2	69.9	118.7	67.1	113.0	64.5	105.8	63.4	98.5	62.7
7.0	6.0	123.2	67.9	118.7	65.1	113.0	62.0	105.8	61.5	98.5	60.9	
9.0	7.9	123.2	66.9	118.7	64.3	113.0	61.6	105.8	60.5	98.5	59.9	
11.0	9.8	123.2	66.2	118.7	63.3	113.0	61.1	105.8	60.0	98.5	59.3	
13.0	11.8	123.2	65.6	118.7	62.9	113.0	60.7	105.8	59.6	98.5	59.0	
90	-19.8	-20	88.5	83.9	88.0	84.2	87.9	81.9	86.4	80.6	82.4	77.1
	-18.8	-19	88.5	83.9	88.0	84.2	87.9	81.9	86.4	80.6	82.4	77.1
	-16.7	-17	88.5	83.8	88.0	84.1	87.9	81.8	86.4	80.5	82.4	77.1
	-13.7	-15	88.5	83.8	88.0	84.0	87.9	81.8	86.4	80.5	82.4	77.1
	-11.8	-13	88.5	83.7	88.0	84.0	87.9	81.7	86.4	80.4	82.4	77.1
	-9.8	-11	88.5	83.7	88.0	84.0	87.9	81.7	86.4	80.3	82.4	77.1
	-9.5	-10	88.5	83.7	88.0	83.9	87.9	81.7	86.4	80.4	82.4	77.0
	-8.5	-9.1	88.5	83.6	88.0	83.9	87.9	81.6	86.4	80.4	82.4	77.0
	-7.0	-7.6	88.5	83.6	88.0	83.9	87.9	81.6	86.4	80.3	82.4	77.0
	-5.0	-5.6	88.5	83.5	88.0	83.8	87.9	81.5	86.4	80.2	82.4	76.9
	-3.0	-3.7	88.5	81.7	88.0	82.0	87.9	79.7	86.4	78.4	82.4	75.2
	0.0	-0.7	88.5	74.1	88.0	73.9	87.9	72.6	86.4	70.2	82.4	68.6
	3.0	2.2	110.9	68.0	106.8	65.6	101.7	62.5	95.2	60.5	88.7	57.8
	5.0	4.1	110.9	63.7	106.8	61.5	101.7	58.0	95.2	56.2	88.7	53.7
7.0	6.0	110.9	61.9	106.8	59.8	101.7	56.4	95.2	54.6	88.7	52.1	
9.0	7.9	110.9	61.0	106.8	59.0	101.7	55.5	95.2	53.7	88.7	51.3	
11.0	9.8	110.9	60.4	106.8	58.0	101.7	54.9	95.2	53.2	88.7	50.8	
13.0	11.8	110.9	59.8	106.8	57.7	101.7	54.6	95.2	52.8	88.7	50.5	
80	-19.8	-20	78.6	74.6	78.2	74.9	78.1	72.8	76.8	71.7	73.2	68.6
	-18.8	-19	78.6	74.6	78.2	74.8	78.1	72.8	76.8	71.6	73.2	68.5
	-16.7	-17	78.6	74.5	78.2	74.8	78.1	72.7	76.8	71.6	73.2	68.5
	-13.7	-15	78.6	74.5	78.2	74.7	78.1	72.7	76.8	71.5	73.2	68.5
	-11.8	-13	78.6	74.4	78.2	74.7	78.1	72.6	76.8	71.5	73.2	68.5
	-9.8	-11	78.6	74.4	78.2	74.6	78.1	72.6	76.8	71.4	73.2	68.5
	-9.5	-10	78.6	74.4	78.2	74.6	78.1	72.6	76.8	71.5	73.2	68.5
	-8.5	-9.1	78.6	74.3	78.2	74.6	78.1	72.5	76.8	71.4	73.2	68.5
	-7.0	-7.6	78.6	74.3	78.2	74.5	78.1	72.5	76.8	71.4	73.2	68.4
	-5.0	-5.6	78.6	74.2	78.2	74.5	78.1	72.5	76.8	71.3	73.2	68.4
	-3.0	-3.7	78.6	72.6	78.2	72.8	78.1	70.9	76.8	69.7	73.2	66.8
	0.0	-0.7	78.6	65.9	78.2	65.7	78.1	64.5	76.8	62.4	73.2	61.0
	3.0	2.2	98.5	60.4	94.9	58.3	90.4	55.6	84.6	53.8	78.8	51.4
	5.0	4.1	98.5	56.6	94.9	54.7	90.4	51.6	84.6	50.0	78.8	47.7
7.0	6.0	98.5	55.0	94.9	53.1	90.4	50.1	84.6	48.5	78.8	46.3	
9.0	7.9	98.5	54.2	94.9	52.4	90.4	49.3	84.6	47.7	78.8	45.6	
11.0	9.8	98.5	53.7	94.9	51.6	90.4	48.8	84.6	47.3	78.8	45.2	
13.0	11.8	98.5	53.1	94.9	51.3	90.4	48.5	84.6	47.0	78.8	44.9	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
70	-19.8	-20	68.8	65.3	68.4	65.5	68.3	63.7	67.2	62.7	64.1	60.0
	-18.8	-19	68.8	65.2	68.4	65.5	68.3	63.7	67.2	62.7	64.1	60.0
	-16.7	-17	68.8	65.2	68.4	65.4	68.3	63.6	67.2	62.6	64.1	60.0
	-13.7	-15	68.8	65.2	68.4	65.3	68.3	63.6	67.2	62.6	64.1	60.0
	-11.8	-13	68.8	65.1	68.4	65.3	68.3	63.6	67.2	62.6	64.1	59.9
	-9.8	-11	68.8	65.1	68.4	65.3	68.3	63.5	67.2	62.5	64.1	59.9
	-9.5	-10	68.8	65.1	68.4	65.3	68.3	63.5	67.2	62.6	64.1	59.9
	-8.5	-9.1	68.8	65.1	68.4	65.3	68.3	63.5	67.2	62.5	64.1	59.9
	-7.0	-7.6	68.8	65.0	68.4	65.2	68.3	63.4	67.2	62.4	64.1	59.9
	-5.0	-5.6	68.8	64.9	68.4	65.2	68.3	63.4	67.2	62.4	64.1	59.8
	-3.0	-3.7	68.8	63.5	68.4	63.7	68.3	62.0	67.2	61.0	64.1	58.5
	0.0	-0.7	68.8	57.7	68.4	57.5	68.3	56.5	67.2	54.6	64.1	53.4
	3.0	2.2	86.2	52.9	83.1	51.0	79.1	48.6	74.0	47.1	69.0	45.0
	5.0	4.1	86.2	49.5	83.1	47.9	79.1	45.1	74.0	43.7	69.0	41.7
7.0	6.0	86.2	48.1	83.1	46.5	79.1	43.8	74.0	42.4	69.0	40.5	
9.0	7.9	86.2	47.4	83.1	45.9	79.1	43.1	74.0	41.8	69.0	39.9	
11.0	9.8	86.2	47.0	83.1	45.1	79.1	42.7	74.0	41.4	69.0	39.5	
13.0	11.8	86.2	46.5	83.1	44.9	79.1	42.5	74.0	41.1	69.0	39.3	
60	-19.8	-20	59.0	56.0	58.6	56.1	58.6	54.6	57.6	53.7	54.9	51.4
	-18.8	-19	59.0	55.9	58.6	56.1	58.6	54.6	57.6	53.7	54.9	51.4
	-16.7	-17	59.0	55.9	58.6	56.1	58.6	54.5	57.6	53.7	54.9	51.4
	-13.7	-15	59.0	55.9	58.6	56.0	58.6	54.5	57.6	53.7	54.9	51.4
	-11.8	-13	59.0	55.8	58.6	56.0	58.6	54.5	57.6	53.6	54.9	51.4
	-9.8	-11	59.0	55.8	58.6	56.0	58.6	54.4	57.6	53.6	54.9	51.4
	-9.5	-10	59.0	55.8	58.6	56.0	58.6	54.4	57.6	53.6	54.9	51.3
	-8.5	-9.1	59.0	55.8	58.6	55.9	58.6	54.4	57.6	53.6	54.9	51.3
	-7.0	-7.6	59.0	55.7	58.6	55.9	58.6	54.4	57.6	53.5	54.9	51.3
	-5.0	-5.6	59.0	55.7	58.6	55.8	58.6	54.3	57.6	53.5	54.9	51.3
	-3.0	-3.7	59.0	54.4	58.6	54.6	58.6	53.1	57.6	52.3	54.9	50.1
	0.0	-0.7	59.0	49.4	58.6	49.3	58.6	48.4	57.6	46.8	54.9	45.8
	3.0	2.2	73.9	45.3	71.2	43.7	67.8	41.7	63.5	40.4	59.1	38.5
	5.0	4.1	73.9	42.5	71.2	41.0	67.8	38.7	63.5	37.5	59.1	35.8
7.0	6.0	73.9	41.3	71.2	39.8	67.8	37.6	63.5	36.4	59.1	34.7	
9.0	7.9	73.9	40.7	71.2	39.3	67.8	37.0	63.5	35.8	59.1	34.2	
11.0	9.8	73.9	40.3	71.2	38.7	67.8	36.6	63.5	35.5	59.1	33.9	
13.0	11.8	73.9	39.9	71.2	38.5	67.8	36.4	63.5	35.2	59.1	33.7	
50	-19.8	-20	49.2	46.6	48.9	46.8	48.8	45.5	48.0	44.8	45.8	42.9
	-18.8	-19	49.2	46.6	48.9	46.8	48.8	45.5	48.0	44.8	45.8	42.8
	-16.7	-17	49.2	46.6	48.9	46.7	48.8	45.4	48.0	44.7	45.8	42.8
	-13.7	-15	49.2	46.5	48.9	46.7	48.8	45.4	48.0	44.7	45.8	42.8
	-11.8	-13	49.2	46.5	48.9	46.7	48.8	45.4	48.0	44.7	45.8	42.8
	-9.8	-11	49.2	46.5	48.9	46.6	48.8	45.4	48.0	44.6	45.8	42.8
	-9.5	-10	49.2	46.5	48.9	46.6	48.8	45.4	48.0	44.7	45.8	42.8
	-8.5	-9.1	49.2	46.5	48.9	46.6	48.8	45.3	48.0	44.6	45.8	42.8
	-7.0	-7.6	49.2	46.4	48.9	46.6	48.8	45.3	48.0	44.6	45.8	42.8
	-5.0	-5.6	49.2	46.4	48.9	46.5	48.8	45.3	48.0	44.6	45.8	42.7
	-3.0	-3.7	49.2	45.4	48.9	45.5	48.8	44.3	48.0	43.6	45.8	41.8
	0.0	-0.7	49.2	41.2	48.9	41.1	48.8	40.3	48.0	39.0	45.8	38.1
	3.0	2.2	61.6	37.8	59.3	36.4	56.5	34.7	52.9	33.6	49.3	32.1
	5.0	4.1	61.6	35.4	59.3	34.2	56.5	32.2	52.9	31.2	49.3	29.8
7.0	6.0	61.6	34.4	59.3	33.2	56.5	31.3	52.9	30.3	49.3	29.0	
9.0	7.9	61.6	33.9	59.3	32.8	56.5	30.8	52.9	29.8	49.3	28.5	
11.0	9.8	61.6	33.5	59.3	32.2	56.5	30.5	52.9	29.6	49.3	28.2	
13.0	11.8	61.6	33.2	59.3	32.0	56.5	30.3	52.9	29.4	49.3	28.1	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

◆ 40HP

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
130	-19.8	-20	118.2	108.5	117.5	108.1	117.4	107.2	115.5	107.0	110.1	106.1
	-18.8	-19	118.2	108.4	117.5	108.0	117.4	107.1	115.5	107.0	110.1	106.1
	-16.7	-17	118.2	108.3	117.5	108.0	117.4	107.1	115.5	106.9	110.1	106.1
	-13.7	-15	118.2	108.3	117.5	107.9	117.4	107.0	115.5	106.8	110.1	106.1
	-11.8	-13	118.2	108.2	117.5	107.9	117.4	106.9	115.5	106.8	110.1	106.0
	-9.8	-11	118.2	108.1	117.5	107.8	117.4	106.9	115.5	106.6	110.1	106.0
	-9.5	-10	118.2	108.1	117.5	107.8	117.4	106.9	115.5	106.8	110.1	105.9
	-8.5	-9.1	118.2	108.1	117.5	107.7	117.4	106.8	115.5	106.7	110.1	105.9
	-7.0	-7.6	118.2	108.0	117.5	107.7	117.4	106.7	115.5	106.6	110.1	105.9
	-5.0	-5.6	118.2	107.9	117.5	107.5	117.4	106.7	115.5	106.5	110.1	105.8
	-3.0	-3.7	118.2	105.5	117.5	105.2	117.4	104.3	115.5	104.1	110.1	103.4
	0.0	-0.7	118.2	95.8	117.5	94.9	117.4	95.0	115.5	93.2	110.1	94.4
	3.0	2.2	148.1	87.8	142.7	84.2	135.9	81.8	127.2	80.4	118.5	79.5
	5.0	4.1	148.1	82.3	142.7	79.0	135.9	76.0	127.2	74.6	118.5	73.8
	7.0	6.0	148.1	80.0	142.7	76.7	135.9	73.8	127.2	72.4	118.5	71.7
120	9.0	7.9	152.0	78.8	146.5	75.7	139.5	72.6	130.6	71.3	121.7	70.6
	11.0	9.8	153.1	78.0	147.4	74.5	140.4	71.9	131.5	70.7	122.4	69.9
	13.0	11.8	154.0	77.2	148.5	74.0	141.4	71.5	132.3	70.2	123.3	69.5
	-19.8	-20	114.5	106.9	113.9	106.6	113.7	105.7	111.9	105.5	106.6	104.7
	-18.8	-19	114.5	106.9	113.9	106.5	113.7	105.6	111.9	105.5	106.6	104.6
	-16.7	-17	114.5	106.8	113.9	106.5	113.7	105.6	111.9	105.4	106.6	104.6
	-13.7	-15	114.5	106.8	113.9	106.4	113.7	105.5	111.9	105.3	106.6	104.6
	-11.8	-13	114.5	106.7	113.9	106.4	113.7	105.4	111.9	105.3	106.6	104.5
	-9.8	-11	114.5	106.6	113.9	106.3	113.7	105.4	111.9	105.1	106.6	104.5
	-9.5	-10	114.5	106.6	113.9	106.3	113.7	105.4	111.9	105.3	106.6	104.5
	-8.5	-9.1	114.5	106.6	113.9	106.2	113.7	105.3	111.9	105.2	106.6	104.5
	-7.0	-7.6	114.5	106.5	113.9	106.2	113.7	105.3	111.9	105.1	106.6	104.4
	-5.0	-5.6	114.5	106.4	113.9	106.0	113.7	105.2	111.9	105.0	106.6	104.4
	-3.0	-3.7	114.5	104.1	113.9	103.7	113.7	102.9	111.9	102.6	106.6	101.9
	0.0	-0.7	114.5	94.5	113.9	93.5	113.7	93.7	111.9	91.9	106.6	93.1
3.0	2.2	143.5	86.6	138.2	83.0	131.6	80.7	123.2	79.3	114.8	78.4	
5.0	4.1	143.5	81.2	138.2	77.9	131.6	74.9	123.2	73.6	114.8	72.8	
7.0	6.0	143.5	78.9	138.2	75.7	131.6	72.7	123.2	71.4	114.8	70.7	
9.0	7.9	146.4	77.7	141.0	74.7	134.3	71.6	125.7	70.3	117.1	69.6	
11.0	9.8	147.4	76.9	141.9	73.5	135.2	70.9	126.5	69.7	117.9	68.9	
13.0	11.8	148.3	76.2	142.9	73.0	136.1	70.5	127.3	69.2	118.6	68.5	
110	-19.8	-20	111.0	105.5	110.4	105.1	110.2	104.2	108.4	104.1	103.3	103.2
	-18.8	-19	111.0	105.4	110.4	105.1	110.2	104.2	108.4	104.0	103.3	103.1
	-16.7	-17	111.0	105.3	110.4	105.0	110.2	104.1	108.4	104.0	103.3	103.1
	-13.7	-15	111.0	105.3	110.4	104.9	110.2	104.1	108.4	103.9	103.3	103.1
	-11.8	-13	111.0	105.2	110.4	104.9	110.2	104.0	108.4	103.8	103.3	103.1
	-9.8	-11	111.0	105.2	110.4	104.8	110.2	103.9	108.4	103.7	103.3	103.1
	-9.5	-10	111.0	105.2	110.4	104.8	110.2	103.9	108.4	103.8	103.3	103.0
	-8.5	-9.1	111.0	105.1	110.4	104.8	110.2	103.9	108.4	103.7	103.3	103.0
	-7.0	-7.6	111.0	105.0	110.4	104.7	110.2	103.8	108.4	103.7	103.3	103.0
	-5.0	-5.6	111.0	104.9	110.4	104.6	110.2	103.7	108.4	103.6	103.3	102.9
	-3.0	-3.7	111.0	102.6	110.4	102.3	110.2	101.4	108.4	101.2	103.3	100.5
	0.0	-0.7	111.0	93.2	110.4	92.2	110.2	92.4	108.4	90.6	103.3	91.8
	3.0	2.2	139.1	85.4	134.0	81.9	127.6	79.5	119.4	78.2	111.3	77.3
	5.0	4.1	139.1	80.0	134.0	76.8	127.6	73.9	119.4	72.6	111.3	71.8
	7.0	6.0	139.1	77.8	134.0	74.6	127.6	71.7	119.4	70.4	111.3	69.7
9.0	7.9	140.9	76.6	135.8	73.6	129.3	70.6	121.0	69.3	112.8	68.6	
11.0	9.8	141.9	75.9	136.7	72.5	130.2	69.9	121.8	68.7	113.5	68.0	
13.0	11.8	142.8	75.1	137.6	72.0	131.0	69.5	122.6	68.2	114.3	67.6	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
100	-19.8	-20	109.6	104.0	109.0	103.6	108.9	102.7	107.1	102.6	102.1	101.7
	-18.8	-19	109.6	103.9	109.0	103.6	108.9	102.7	107.1	102.5	102.1	101.7
	-16.7	-17	109.6	103.8	109.0	103.5	108.9	102.6	107.1	102.5	102.1	101.7
	-13.7	-15	109.6	103.8	109.0	103.4	108.9	102.6	107.1	102.4	102.1	101.7
	-11.8	-13	109.6	103.7	109.0	103.4	108.9	102.5	107.1	102.3	102.1	101.6
	-9.8	-11	109.6	103.7	109.0	103.3	108.9	102.4	107.1	102.2	102.1	101.6
	-9.5	-10	109.6	103.7	109.0	103.3	108.9	102.4	107.1	102.3	102.1	101.6
	-8.5	-9.1	109.6	103.6	109.0	103.3	108.9	102.4	107.1	102.3	102.1	101.6
	-7.0	-7.6	109.6	103.5	109.0	103.2	108.9	102.3	107.1	102.2	102.1	101.5
	-5.0	-5.6	109.6	103.4	109.0	103.1	108.9	102.3	107.1	102.1	102.1	101.4
	-3.0	-3.7	109.6	101.2	109.0	100.8	108.9	100.0	107.1	99.8	102.1	99.1
	0.0	-0.7	109.6	91.8	109.0	90.9	108.9	91.1	107.1	89.3	102.1	90.5
	3.0	2.2	137.3	84.2	132.3	80.7	126.0	78.4	117.9	77.0	109.9	76.2
	5.0	4.1	137.3	78.9	132.3	75.7	126.0	72.8	117.9	71.5	109.9	70.8
7.0	6.0	137.3	76.7	132.3	73.5	126.0	70.0	117.9	69.4	109.9	68.7	
9.0	7.9	137.3	75.5	132.3	72.6	126.0	69.6	117.9	68.3	109.9	67.7	
11.0	9.8	137.3	74.8	132.3	71.4	126.0	68.9	117.9	67.7	109.9	67.0	
13.0	11.8	137.3	74.0	132.3	71.0	126.0	68.5	117.9	67.2	109.9	66.6	
90	-19.8	-20	98.7	94.8	98.1	95.1	98.0	92.5	96.4	91.0	91.9	87.1
	-18.8	-19	98.7	94.7	98.1	95.0	98.0	92.4	96.4	91.0	91.9	87.1
	-16.7	-17	98.7	94.7	98.1	95.0	98.0	92.4	96.4	90.9	91.9	87.1
	-13.7	-15	98.7	94.6	98.1	94.9	98.0	92.3	96.4	90.9	91.9	87.1
	-11.8	-13	98.7	94.5	98.1	94.9	98.0	92.3	96.4	90.8	91.9	87.0
	-9.8	-11	98.7	94.5	98.1	94.8	98.0	92.2	96.4	90.7	91.9	87.0
	-9.5	-10	98.7	94.5	98.1	94.8	98.0	92.2	96.4	90.8	91.9	87.0
	-8.5	-9.1	98.7	94.4	98.1	94.7	98.0	92.1	96.4	90.7	91.9	87.0
	-7.0	-7.6	98.7	94.4	98.1	94.7	98.0	92.1	96.4	90.7	91.9	86.9
	-5.0	-5.6	98.7	94.3	98.1	94.6	98.0	92.0	96.4	90.6	91.9	86.9
	-3.0	-3.7	98.7	92.2	98.1	92.5	98.0	90.0	96.4	88.5	91.9	84.9
	0.0	-0.7	98.7	83.7	98.1	83.4	98.0	82.0	96.4	79.3	91.9	77.5
	3.0	2.2	123.6	76.7	119.1	74.0	113.4	70.6	106.1	68.4	98.9	65.3
	5.0	4.1	123.6	71.9	119.1	69.5	113.4	65.5	106.1	63.5	98.9	60.6
7.0	6.0	123.6	69.9	119.1	67.5	113.4	63.6	106.1	61.6	98.9	58.8	
9.0	7.9	123.6	68.9	119.1	66.6	113.4	62.6	106.1	60.6	98.9	57.9	
11.0	9.8	123.6	68.2	119.1	65.5	113.4	62.0	106.1	60.1	98.9	57.4	
13.0	11.8	123.6	67.5	119.1	65.1	113.4	61.7	106.1	59.7	98.9	57.0	
80	-19.8	-20	87.7	84.2	87.2	84.5	87.1	82.2	85.7	80.9	81.6	77.4
	-18.8	-19	87.7	84.2	87.2	84.5	87.1	82.1	85.7	80.9	81.6	77.4
	-16.7	-17	87.7	84.1	87.2	84.4	87.1	82.1	85.7	80.8	81.6	77.4
	-13.7	-15	87.7	84.1	87.2	84.3	87.1	82.0	85.7	80.8	81.6	77.4
	-11.8	-13	87.7	84.0	87.2	84.3	87.1	82.0	85.7	80.7	81.6	77.3
	-9.8	-11	87.7	84.0	87.2	84.3	87.1	82.0	85.7	80.6	81.6	77.3
	-9.5	-10	87.7	84.0	87.2	84.2	87.1	82.0	85.7	80.7	81.6	77.3
	-8.5	-9.1	87.7	83.9	87.2	84.2	87.1	81.9	85.7	80.7	81.6	77.3
	-7.0	-7.6	87.7	83.9	87.2	84.2	87.1	81.9	85.7	80.6	81.6	77.3
	-5.0	-5.6	87.7	83.8	87.2	84.1	87.1	81.8	85.7	80.5	81.6	77.2
	-3.0	-3.7	87.7	82.0	87.2	82.2	87.1	80.0	85.7	78.7	81.6	75.4
	0.0	-0.7	87.7	74.4	87.2	74.2	87.1	72.9	85.7	70.5	81.6	68.9
	3.0	2.2	109.9	68.2	105.8	65.8	100.8	62.7	94.3	60.8	87.9	58.0
	5.0	4.1	109.9	63.9	105.8	61.8	100.8	58.3	94.3	56.4	87.9	53.9
7.0	6.0	109.9	62.1	105.8	60.0	100.8	56.6	94.3	54.8	87.9	52.3	
9.0	7.9	109.9	61.2	105.8	59.2	100.8	55.7	94.3	53.9	87.9	51.5	
11.0	9.8	109.9	60.6	105.8	58.2	100.8	55.1	94.3	53.4	87.9	51.0	
13.0	11.8	109.9	60.0	105.8	57.9	100.8	54.8	94.3	53.0	87.9	50.7	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
70	-19.8	-20	76.7	73.7	76.3	73.9	76.2	71.9	75.0	70.8	71.4	67.7
	-18.8	-19	76.7	73.7	76.3	73.9	76.2	71.9	75.0	70.8	71.4	67.7
	-16.7	-17	76.7	73.6	76.3	73.9	76.2	71.8	75.0	70.7	71.4	67.7
	-13.7	-15	76.7	73.6	76.3	73.8	76.2	71.8	75.0	70.7	71.4	67.7
	-11.8	-13	76.7	73.5	76.3	73.8	76.2	71.8	75.0	70.6	71.4	67.7
	-9.8	-11	76.7	73.5	76.3	73.7	76.2	71.7	75.0	70.5	71.4	67.7
	-9.5	-10	76.7	73.5	76.3	73.7	76.2	71.7	75.0	70.6	71.4	67.6
	-8.5	-9.1	76.7	73.4	76.3	73.7	76.2	71.7	75.0	70.6	71.4	67.6
	-7.0	-7.6	76.7	73.4	76.3	73.6	76.2	71.6	75.0	70.5	71.4	67.6
	-5.0	-5.6	76.7	73.3	76.3	73.6	76.2	71.6	75.0	70.5	71.4	67.6
	-3.0	-3.7	76.7	71.7	76.3	72.0	76.2	70.0	75.0	68.8	71.4	66.0
	0.0	-0.7	76.7	65.1	76.3	64.9	76.2	63.7	75.0	61.7	71.4	60.3
	3.0	2.2	96.1	59.7	92.6	57.6	88.2	54.9	82.6	53.2	76.9	50.8
	5.0	4.1	96.1	55.9	92.6	54.0	88.2	51.0	82.6	49.4	76.9	47.1
7.0	6.0	96.1	54.3	92.6	52.5	88.2	49.5	82.6	47.9	76.9	45.8	
9.0	7.9	96.1	53.6	92.6	51.8	88.2	48.7	82.6	47.2	76.9	45.1	
11.0	9.8	96.1	53.0	92.6	51.0	88.2	48.3	82.6	46.7	76.9	44.6	
13.0	11.8	96.1	52.5	92.6	50.7	88.2	48.0	82.6	46.4	76.9	44.4	
60	-19.8	-20	65.8	63.2	65.4	63.4	65.3	61.6	64.3	60.7	61.2	58.1
	-18.8	-19	65.8	63.1	65.4	63.3	65.3	61.6	64.3	60.6	61.2	58.0
	-16.7	-17	65.8	63.1	65.4	63.3	65.3	61.6	64.3	60.6	61.2	58.0
	-13.7	-15	65.8	63.1	65.4	63.2	65.3	61.5	64.3	60.6	61.2	58.0
	-11.8	-13	65.8	63.0	65.4	63.2	65.3	61.5	64.3	60.5	61.2	58.0
	-9.8	-11	65.8	63.0	65.4	63.2	65.3	61.5	64.3	60.5	61.2	58.0
	-9.5	-10	65.8	63.0	65.4	63.2	65.3	61.5	64.3	60.5	61.2	58.0
	-8.5	-9.1	65.8	63.0	65.4	63.2	65.3	61.4	64.3	60.5	61.2	58.0
	-7.0	-7.6	65.8	62.9	65.4	63.1	65.3	61.4	64.3	60.4	61.2	57.9
	-5.0	-5.6	65.8	62.8	65.4	63.0	65.3	61.4	64.3	60.4	61.2	57.9
	-3.0	-3.7	65.8	61.5	65.4	61.7	65.3	60.0	64.3	59.0	61.2	56.6
	0.0	-0.7	65.8	55.8	65.4	55.6	65.3	54.6	64.3	52.9	61.2	51.7
	3.0	2.2	82.4	51.2	79.4	49.4	75.6	47.0	70.8	45.6	65.9	43.5
	5.0	4.1	82.4	47.9	79.4	46.3	75.6	43.7	70.8	42.3	65.9	40.4
7.0	6.0	82.4	46.6	79.4	45.0	75.6	42.4	70.8	41.1	65.9	39.2	
9.0	7.9	82.4	45.9	79.4	44.4	75.6	41.7	70.8	40.4	65.9	38.6	
11.0	9.8	82.4	45.5	79.4	43.7	75.6	41.4	70.8	40.1	65.9	38.2	
13.0	11.8	82.4	45.0	79.4	43.4	75.6	41.1	70.8	39.8	65.9	38.0	
50	-19.8	-20	54.8	52.6	54.5	52.8	54.4	51.4	53.6	50.6	51.0	48.4
	-18.8	-19	54.8	52.6	54.5	52.8	54.4	51.3	53.6	50.5	51.0	48.4
	-16.7	-17	54.8	52.6	54.5	52.8	54.4	51.3	53.6	50.5	51.0	48.4
	-13.7	-15	54.8	52.6	54.5	52.7	54.4	51.3	53.6	50.5	51.0	48.4
	-11.8	-13	54.8	52.5	54.5	52.7	54.4	51.3	53.6	50.5	51.0	48.3
	-9.8	-11	54.8	52.5	54.5	52.7	54.4	51.2	53.6	50.4	51.0	48.3
	-9.5	-10	54.8	52.5	54.5	52.7	54.4	51.2	53.6	50.4	51.0	48.3
	-8.5	-9.1	54.8	52.5	54.5	52.6	54.4	51.2	53.6	50.4	51.0	48.3
	-7.0	-7.6	54.8	52.4	54.5	52.6	54.4	51.2	53.6	50.4	51.0	48.3
	-5.0	-5.6	54.8	52.4	54.5	52.5	54.4	51.1	53.6	50.3	51.0	48.3
	-3.0	-3.7	54.8	51.2	54.5	51.4	54.4	50.0	53.6	49.2	51.0	47.1
	0.0	-0.7	54.8	46.5	54.5	46.3	54.4	45.5	53.6	44.0	51.0	43.0
	3.0	2.2	68.7	42.6	66.2	41.1	63.0	39.2	59.0	38.0	54.9	36.3
	5.0	4.1	68.7	40.0	66.2	38.6	63.0	36.4	59.0	35.3	54.9	33.7
7.0	6.0	68.7	38.8	66.2	37.5	63.0	35.4	59.0	34.2	54.9	32.7	
9.0	7.9	68.7	38.3	66.2	37.0	63.0	34.8	59.0	33.7	54.9	32.2	
11.0	9.8	68.7	37.9	66.2	36.4	63.0	34.5	59.0	33.4	54.9	31.9	
13.0	11.8	68.7	37.5	66.2	36.2	63.0	34.3	59.0	33.1	54.9	31.7	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

◆ 50HP

Combination (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
130	-19.8	-20	150.1	139.4	149.2	139.0	149.1	136.4	146.7	137.6	139.8	136.4
	-18.8	-19	150.1	139.4	149.2	138.9	149.1	136.4	146.7	137.5	139.8	136.4
	-16.7	-17	150.1	139.3	149.2	138.8	149.1	136.3	146.7	137.4	139.8	136.4
	-13.7	-15	150.1	139.2	149.2	138.7	149.1	136.2	146.7	137.4	139.8	136.4
	-11.8	-13	150.1	139.1	149.2	138.7	149.1	136.1	146.7	137.3	139.8	136.3
	-9.8	-11	150.1	139.0	149.2	138.6	149.1	136.0	146.7	137.1	139.8	136.3
	-9.5	-10	150.1	139.0	149.2	138.6	149.1	136.0	146.7	137.3	139.8	136.2
	-8.5	-9.1	150.1	138.9	149.2	138.5	149.1	136.0	146.7	137.2	139.8	136.2
	-7.0	-7.6	150.1	138.9	149.2	138.4	149.1	135.9	146.7	137.0	139.8	136.1
	-5.0	-5.6	150.1	138.7	149.2	138.3	149.1	135.8	146.7	137.0	139.8	136.1
	-3.0	-3.7	150.1	135.7	149.2	135.3	149.1	132.8	146.7	133.8	139.8	132.9
	0.0	-0.7	150.1	123.2	149.2	122.0	149.1	120.9	146.7	119.8	139.8	121.4
	3.0	2.2	188.1	112.9	181.2	108.3	172.5	104.1	161.5	103.3	150.5	102.2
	5.0	4.1	188.1	105.8	181.2	101.6	172.5	96.7	161.5	95.9	150.5	94.9
	7.0	6.0	188.1	102.8	181.2	98.6	172.5	93.9	161.5	93.1	150.5	92.2
9.0	7.9	193.0	101.3	186.0	97.4	177.2	92.4	165.8	91.7	154.5	90.8	
11.0	9.8	194.4	100.3	187.2	95.8	178.3	91.5	166.9	90.8	155.5	89.9	
13.0	11.8	195.6	99.3	188.5	95.2	179.6	91.0	168.0	90.2	156.5	89.3	
120	-19.8	-20	145.4	137.5	144.6	137.1	144.4	134.6	142.1	135.7	135.4	134.6
	-18.8	-19	145.4	137.4	144.6	137.0	144.4	134.5	142.1	135.6	135.4	134.5
	-16.7	-17	145.4	137.3	144.6	136.9	144.4	134.4	142.1	135.5	135.4	134.5
	-13.7	-15	145.4	137.3	144.6	136.7	144.4	134.3	142.1	135.4	135.4	134.5
	-11.8	-13	145.4	137.2	144.6	136.7	144.4	134.2	142.1	135.4	135.4	134.4
	-9.8	-11	145.4	137.1	144.6	136.7	144.4	134.2	142.1	135.2	135.4	134.4
	-9.5	-10	145.4	137.1	144.6	136.6	144.4	134.2	142.1	135.4	135.4	134.3
	-8.5	-9.1	145.4	137.0	144.6	136.6	144.4	134.1	142.1	135.3	135.4	134.3
	-7.0	-7.6	145.4	136.9	144.6	136.5	144.4	134.0	142.1	135.1	135.4	134.3
	-5.0	-5.6	145.4	136.8	144.6	136.3	144.4	133.9	142.1	135.1	135.4	134.2
	-3.0	-3.7	145.4	133.8	144.6	133.4	144.4	131.0	142.1	131.9	135.4	131.1
	0.0	-0.7	145.4	121.5	144.6	120.3	144.4	119.3	142.1	118.2	135.4	119.7
	3.0	2.2	182.2	111.3	175.5	106.7	167.1	102.7	156.4	101.9	145.7	100.8
	5.0	4.1	182.2	104.3	175.5	100.2	167.1	95.4	156.4	94.6	145.7	93.6
	7.0	6.0	182.2	101.4	175.5	97.3	167.1	92.6	156.4	91.8	145.7	90.9
9.0	7.9	185.9	99.9	179.1	96.0	170.6	91.1	159.7	90.4	148.7	89.5	
11.0	9.8	187.1	98.9	180.3	94.5	171.7	90.3	160.7	89.6	149.7	88.6	
13.0	11.8	188.3	97.9	181.4	93.9	172.8	89.7	161.7	88.9	150.7	88.1	
110	-19.8	-20	140.9	135.6	140.1	135.2	140.0	132.7	137.7	133.8	131.2	132.7
	-18.8	-19	140.9	135.5	140.1	135.1	140.0	132.6	137.7	133.7	131.2	132.6
	-16.7	-17	140.9	135.4	140.1	135.0	140.0	132.5	137.7	133.7	131.2	132.6
	-13.7	-15	140.9	135.4	140.1	134.8	140.0	132.5	137.7	133.6	131.2	132.6
	-11.8	-13	140.9	135.3	140.1	134.8	140.0	132.4	137.7	133.5	131.2	132.5
	-9.8	-11	140.9	135.2	140.1	134.8	140.0	132.3	137.7	133.3	131.2	132.5
	-9.5	-10	140.9	135.2	140.1	134.7	140.0	132.3	137.7	133.5	131.2	132.5
	-8.5	-9.1	140.9	135.1	140.1	134.7	140.0	132.2	137.7	133.4	131.2	132.5
	-7.0	-7.6	140.9	135.0	140.1	134.6	140.0	132.1	137.7	133.3	131.2	132.4
	-5.0	-5.6	140.9	134.9	140.1	134.5	140.0	132.1	137.7	133.2	131.2	132.3
	-3.0	-3.7	140.9	131.9	140.1	131.5	140.0	129.1	137.7	130.1	131.2	129.3
	0.0	-0.7	140.9	119.8	140.1	118.6	140.0	117.6	137.7	116.5	131.2	118.0
	3.0	2.2	176.6	109.8	170.1	105.3	162.0	101.3	151.6	100.5	141.3	99.4
	5.0	4.1	176.6	102.9	170.1	98.8	162.0	94.0	151.6	93.3	141.3	92.3
	7.0	6.0	176.6	100.0	170.1	95.9	162.0	91.3	151.6	90.6	141.3	89.6
9.0	7.9	179.0	98.5	172.4	94.7	164.2	89.8	153.7	89.1	143.2	88.3	
11.0	9.8	180.2	97.6	173.6	93.2	165.3	89.0	154.7	88.3	144.1	87.4	
13.0	11.8	181.4	96.6	174.7	92.6	166.4	88.5	155.7	87.7	145.1	86.9	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
100	-19.8	-20	139.2	133.7	138.4	133.2	138.2	130.8	136.0	131.9	129.6	130.8
	-18.8	-19	139.2	133.6	138.4	133.1	138.2	130.7	136.0	131.8	129.6	130.7
	-16.7	-17	139.2	133.5	138.4	133.1	138.2	130.6	136.0	131.7	129.6	130.7
	-13.7	-15	139.2	133.4	138.4	132.9	138.2	130.6	136.0	131.7	129.6	130.7
	-11.8	-13	139.2	133.3	138.4	132.9	138.2	130.5	136.0	131.6	129.6	130.6
	-9.8	-11	139.2	133.3	138.4	132.8	138.2	130.4	136.0	131.4	129.6	130.6
	-9.5	-10	139.2	133.3	138.4	132.8	138.2	130.4	136.0	131.6	129.6	130.6
	-8.5	-9.1	139.2	133.2	138.4	132.8	138.2	130.3	136.0	131.5	129.6	130.6
	-7.0	-7.6	139.2	133.1	138.4	132.7	138.2	130.2	136.0	131.4	129.6	130.5
	-5.0	-5.6	139.2	133.0	138.4	132.5	138.2	130.2	136.0	131.3	129.6	130.4
	-3.0	-3.7	139.2	130.1	138.4	129.7	138.2	127.3	136.0	128.3	129.6	127.4
	0.0	-0.7	139.2	118.1	138.4	116.9	138.2	115.9	136.0	114.9	129.6	116.3
	3.0	2.2	174.4	108.2	168.0	103.8	160.0	99.8	149.8	99.0	139.5	98.0
	5.0	4.1	174.4	101.4	168.0	97.4	160.0	92.7	149.8	92.0	139.5	91.0
7.0	6.0	174.4	98.6	168.0	94.5	160.0	90.0	149.8	89.3	139.5	88.4	
9.0	7.9	174.4	97.1	168.0	93.3	160.0	88.6	149.8	87.9	139.5	87.0	
11.0	9.8	174.4	96.2	168.0	91.8	160.0	87.8	149.8	87.1	139.5	86.1	
13.0	11.8	174.4	95.2	168.0	91.3	160.0	87.2	149.8	86.5	139.5	85.6	
90	-19.8	-20	125.3	121.8	124.6	122.2	124.4	117.7	122.4	117.0	116.6	112.0
	-18.8	-19	125.3	121.8	124.6	122.2	124.4	117.6	122.4	117.0	116.6	111.9
	-16.7	-17	125.3	121.7	124.6	122.1	124.4	117.6	122.4	116.9	116.6	111.9
	-13.7	-15	125.3	121.6	124.6	122.0	124.4	117.5	122.4	116.8	116.6	111.9
	-11.8	-13	125.3	121.6	124.6	122.0	124.4	117.4	122.4	116.8	116.6	111.9
	-9.8	-11	125.3	121.5	124.6	121.9	124.4	117.4	122.4	116.6	116.6	111.9
	-9.5	-10	125.3	121.5	124.6	121.9	124.4	117.4	122.4	116.7	116.6	111.8
	-8.5	-9.1	125.3	121.4	124.6	121.8	124.4	117.3	122.4	116.7	116.6	111.8
	-7.0	-7.6	125.3	121.3	124.6	121.7	124.4	117.2	122.4	116.6	116.6	111.7
	-5.0	-5.6	125.3	121.2	124.6	121.6	124.4	117.2	122.4	116.5	116.6	111.7
	-3.0	-3.7	125.3	118.6	124.6	119.0	124.4	114.6	122.4	113.8	116.6	109.1
	0.0	-0.7	125.3	107.6	124.6	107.3	124.4	104.3	122.4	101.9	116.6	99.6
	3.0	2.2	157.0	98.6	151.2	95.2	144.0	89.8	134.8	87.9	125.6	83.9
	5.0	4.1	157.0	92.5	151.2	89.3	144.0	83.4	134.8	81.6	125.6	77.9
7.0	6.0	157.0	89.8	151.2	86.8	144.0	81.0	134.8	79.2	125.6	75.7	
9.0	7.9	157.0	88.5	151.2	85.6	144.0	79.7	134.8	78.0	125.6	74.5	
11.0	9.8	157.0	87.7	151.2	84.2	144.0	79.0	134.8	77.3	125.6	73.8	
13.0	11.8	157.0	86.8	151.2	83.7	144.0	78.5	134.8	76.7	125.6	73.3	
80	-19.8	-20	111.4	108.3	110.7	108.7	110.6	104.6	108.8	104.0	103.7	99.5
	-18.8	-19	111.4	108.2	110.7	108.6	110.6	104.6	108.8	104.0	103.7	99.5
	-16.7	-17	111.4	108.2	110.7	108.5	110.6	104.5	108.8	103.9	103.7	99.5
	-13.7	-15	111.4	108.1	110.7	108.4	110.6	104.4	108.8	103.8	103.7	99.5
	-11.8	-13	111.4	108.0	110.7	108.4	110.6	104.4	108.8	103.8	103.7	99.4
	-9.8	-11	111.4	108.0	110.7	108.3	110.6	104.3	108.8	103.6	103.7	99.4
	-9.5	-10	111.4	108.0	110.7	108.3	110.6	104.3	108.8	103.8	103.7	99.4
	-8.5	-9.1	111.4	107.9	110.7	108.3	110.6	104.3	108.8	103.7	103.7	99.4
	-7.0	-7.6	111.4	107.9	110.7	108.2	110.6	104.2	108.8	103.6	103.7	99.3
	-5.0	-5.6	111.4	107.7	110.7	108.1	110.6	104.1	108.8	103.5	103.7	99.3
	-3.0	-3.7	111.4	105.4	110.7	105.7	110.6	101.8	108.8	101.2	103.7	97.0
	0.0	-0.7	111.4	95.7	110.7	95.3	110.6	92.7	108.8	90.6	103.7	88.6
	3.0	2.2	139.5	87.7	134.4	84.6	128.0	79.8	119.8	78.1	111.6	74.6
	5.0	4.1	139.5	82.2	134.4	79.4	128.0	74.2	119.8	72.5	111.6	69.3
7.0	6.0	139.5	79.9	134.4	77.1	128.0	72.0	119.8	70.4	111.6	67.2	
9.0	7.9	139.5	78.7	134.4	76.1	128.0	70.8	119.8	69.3	111.6	66.2	
11.0	9.8	139.5	77.9	134.4	74.9	128.0	70.2	119.8	68.7	111.6	65.6	
13.0	11.8	139.5	77.1	134.4	74.4	128.0	69.8	119.8	68.2	111.6	65.2	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
70	-19.8	-20	97.4	94.8	96.9	95.1	96.8	91.6	95.2	91.0	90.7	87.1
	-18.8	-19	97.4	94.7	96.9	95.0	96.8	91.5	95.2	91.0	90.7	87.1
	-16.7	-17	97.4	94.7	96.9	95.0	96.8	91.4	95.2	90.9	90.7	87.1
	-13.7	-15	97.4	94.6	96.9	94.9	96.8	91.4	95.2	90.9	90.7	87.1
	-11.8	-13	97.4	94.5	96.9	94.9	96.8	91.3	95.2	90.8	90.7	87.0
	-9.8	-11	97.4	94.5	96.9	94.8	96.8	91.3	95.2	90.7	90.7	87.0
	-9.5	-10	97.4	94.5	96.9	94.8	96.8	91.3	95.2	90.8	90.7	87.0
	-8.5	-9.1	97.4	94.4	96.9	94.7	96.8	91.2	95.2	90.7	90.7	87.0
	-7.0	-7.6	97.4	94.4	96.9	94.7	96.8	91.2	95.2	90.7	90.7	86.9
	-5.0	-5.6	97.4	94.3	96.9	94.6	96.8	91.1	95.2	90.6	90.7	86.9
	-3.0	-3.7	97.4	92.2	96.9	92.5	96.8	89.1	95.2	88.5	90.7	84.9
	0.0	-0.7	97.4	83.7	96.9	83.4	96.8	81.1	95.2	79.3	90.7	77.5
	3.0	2.2	122.1	76.7	117.6	74.0	112.0	69.9	104.8	68.4	97.7	65.3
	5.0	4.1	122.1	71.9	117.6	69.5	112.0	64.9	104.8	63.5	97.7	60.6
7.0	6.0	122.1	69.9	117.6	67.5	112.0	63.0	104.8	61.6	97.7	58.8	
9.0	7.9	122.1	68.9	117.6	66.6	112.0	62.0	104.8	60.6	97.7	57.9	
11.0	9.8	122.1	68.2	117.6	65.5	112.0	61.4	104.8	60.1	97.7	57.4	
13.0	11.8	122.1	67.5	117.6	65.1	112.0	61.0	104.8	59.7	97.7	57.0	
60	-19.8	-20	83.5	81.2	83.0	81.5	82.9	78.5	81.6	78.0	77.8	74.7
	-18.8	-19	83.5	81.2	83.0	81.4	82.9	78.4	81.6	78.0	77.8	74.6
	-16.7	-17	83.5	81.1	83.0	81.4	82.9	78.4	81.6	77.9	77.8	74.6
	-13.7	-15	83.5	81.1	83.0	81.3	82.9	78.3	81.6	77.9	77.8	74.6
	-11.8	-13	83.5	81.0	83.0	81.3	82.9	78.3	81.6	77.8	77.8	74.6
	-9.8	-11	83.5	81.0	83.0	81.3	82.9	78.2	81.6	77.7	77.8	74.6
	-9.5	-10	83.5	81.0	83.0	81.2	82.9	78.2	81.6	77.8	77.8	74.5
	-8.5	-9.1	83.5	80.9	83.0	81.2	82.9	78.2	81.6	77.8	77.8	74.5
	-7.0	-7.6	83.5	80.9	83.0	81.2	82.9	78.1	81.6	77.7	77.8	74.5
	-5.0	-5.6	83.5	80.8	83.0	81.1	82.9	78.1	81.6	77.7	77.8	74.4
	-3.0	-3.7	83.5	79.0	83.0	79.3	82.9	76.4	81.6	75.9	77.8	72.7
	0.0	-0.7	83.5	71.8	83.0	71.5	82.9	69.6	81.6	68.0	77.8	66.4
	3.0	2.2	104.6	65.8	100.8	63.5	96.0	59.9	89.9	58.6	83.7	55.9
	5.0	4.1	104.6	61.6	100.8	59.6	96.0	55.6	89.9	54.4	83.7	51.9
7.0	6.0	104.6	59.9	100.8	57.8	96.0	54.0	89.9	52.8	83.7	50.4	
9.0	7.9	104.6	59.0	100.8	57.1	96.0	53.1	89.9	52.0	83.7	49.7	
11.0	9.8	104.6	58.4	100.8	56.2	96.0	52.7	89.9	51.5	83.7	49.2	
13.0	11.8	104.6	57.9	100.8	55.8	96.0	52.3	89.9	51.1	83.7	48.9	
50	-19.8	-20	69.6	67.7	69.2	67.9	69.1	65.4	68.0	65.0	64.8	62.2
	-18.8	-19	69.6	67.6	69.2	67.9	69.1	65.4	68.0	65.0	64.8	62.2
	-16.7	-17	69.6	67.6	69.2	67.8	69.1	65.3	68.0	64.9	64.8	62.2
	-13.7	-15	69.6	67.6	69.2	67.8	69.1	65.3	68.0	64.9	64.8	62.2
	-11.8	-13	69.6	67.5	69.2	67.8	69.1	65.2	68.0	64.9	64.8	62.1
	-9.8	-11	69.6	67.5	69.2	67.7	69.1	65.2	68.0	64.8	64.8	62.1
	-9.5	-10	69.6	67.5	69.2	67.7	69.1	65.2	68.0	64.9	64.8	62.1
	-8.5	-9.1	69.6	67.5	69.2	67.7	69.1	65.2	68.0	64.8	64.8	62.1
	-7.0	-7.6	69.6	67.4	69.2	67.6	69.1	65.1	68.0	64.8	64.8	62.1
	-5.0	-5.6	69.6	67.3	69.2	67.6	69.1	65.1	68.0	64.7	64.8	62.0
	-3.0	-3.7	69.6	65.9	69.2	66.1	69.1	63.6	68.0	63.2	64.8	60.6
	0.0	-0.7	69.6	59.8	69.2	59.6	69.1	58.0	68.0	56.6	64.8	55.3
	3.0	2.2	87.2	54.8	84.0	52.9	80.0	49.9	74.9	48.8	69.8	46.6
	5.0	4.1	87.2	51.4	84.0	49.6	80.0	46.4	74.9	45.3	69.8	43.3
7.0	6.0	87.2	49.9	84.0	48.2	80.0	45.0	74.9	44.0	69.8	42.0	
9.0	7.9	87.2	49.2	84.0	47.6	80.0	44.3	74.9	43.3	69.8	41.4	
11.0	9.8	87.2	48.7	84.0	46.8	80.0	43.9	74.9	42.9	69.8	41.0	
13.0	11.8	87.2	48.2	84.0	46.5	80.0	43.6	74.9	42.6	69.8	40.7	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

◆ 56HP

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
130	-19.8	-20	168.9	167.3	167.9	166.8	167.7	165.4	165.0	165.1	157.2	163.7
	-18.8	-19	168.9	167.2	167.9	166.7	167.7	165.3	165.0	165.0	157.2	163.6
	-16.7	-17	168.9	167.1	167.9	166.6	167.7	165.2	165.0	164.9	157.2	163.6
	-13.7	-15	168.9	167.0	167.9	166.4	167.7	165.1	165.0	164.8	157.2	163.6
	-11.8	-13	168.9	166.9	167.9	166.4	167.7	165.0	165.0	164.7	157.2	163.6
	-9.8	-11	168.9	166.8	167.9	166.3	167.7	164.9	165.0	164.5	157.2	163.6
	-9.5	-10	168.9	166.8	167.9	166.3	167.7	164.9	165.0	164.7	157.2	163.5
	-8.5	-9.1	168.9	166.7	167.9	166.2	167.7	164.8	165.0	164.6	157.2	163.5
	-7.0	-7.6	168.9	166.6	167.9	166.1	167.7	164.7	165.0	164.4	157.2	163.4
	-5.0	-5.6	168.9	166.5	167.9	165.9	167.7	164.6	165.0	164.3	157.2	163.3
	-3.0	-3.7	168.9	162.8	167.9	162.3	167.7	161.0	165.0	160.6	157.2	159.5
	0.0	-0.7	168.9	147.8	167.9	146.4	167.7	146.6	165.0	143.8	157.2	145.6
	3.0	2.2	211.6	135.5	203.8	129.9	194.1	126.2	181.7	124.0	169.3	122.7
	5.0	4.1	211.6	127.0	203.8	121.9	194.1	117.2	181.7	115.1	169.3	113.9
7.0	6.0	211.6	123.4	203.8	118.4	194.1	113.8	181.7	111.7	169.3	110.6	
9.0	7.9	217.1	121.6	209.3	116.8	199.3	112.0	186.6	110.0	173.9	108.9	
11.0	9.8	218.7	120.4	210.6	114.9	200.6	111.0	187.8	109.0	174.9	107.8	
13.0	11.8	220.0	119.2	212.1	114.2	202.0	110.3	189.0	108.2	176.1	107.2	
120	-19.8	-20	163.6	165.0	162.6	164.5	162.5	163.1	159.8	162.8	152.3	161.5
	-18.8	-19	163.6	164.9	162.6	164.4	162.5	163.0	159.8	162.7	152.3	161.4
	-16.7	-17	163.6	164.8	162.6	164.3	162.5	162.9	159.8	162.6	152.3	161.4
	-13.7	-15	163.6	164.7	162.6	164.1	162.5	162.8	159.8	162.5	152.3	161.4
	-11.8	-13	163.6	164.6	162.6	164.1	162.5	162.7	159.8	162.4	152.3	161.3
	-9.8	-11	163.6	164.5	162.6	164.0	162.5	162.6	159.8	162.2	152.3	161.3
	-9.5	-10	163.6	164.5	162.6	164.0	162.5	162.6	159.8	162.4	152.3	161.2
	-8.5	-9.1	163.6	164.4	162.6	163.9	162.5	162.5	159.8	162.3	152.3	161.2
	-7.0	-7.6	163.6	164.3	162.6	163.8	162.5	162.4	159.8	162.2	152.3	161.1
	-5.0	-5.6	163.6	164.1	162.6	163.6	162.5	162.3	159.8	162.1	152.3	161.0
	-3.0	-3.7	163.6	160.5	162.6	160.1	162.5	158.7	159.8	158.3	152.3	157.3
	0.0	-0.7	163.6	145.8	162.6	144.3	162.5	144.5	159.8	141.8	152.3	143.6
	3.0	2.2	205.0	133.6	197.4	128.1	188.0	124.4	176.0	122.3	164.0	121.0
	5.0	4.1	205.0	125.2	197.4	120.2	188.0	115.6	176.0	113.5	164.0	112.3
7.0	6.0	205.0	121.7	197.4	116.7	188.0	112.2	176.0	110.2	164.0	109.1	
9.0	7.9	209.2	119.9	201.5	115.2	191.9	110.4	179.6	108.5	167.3	107.4	
11.0	9.8	210.5	118.7	202.8	113.4	193.1	109.4	180.8	107.5	168.4	106.3	
13.0	11.8	211.9	117.5	204.1	112.7	194.4	108.7	181.9	106.7	169.5	105.7	
110	-19.8	-20	158.6	162.7	157.7	162.2	157.5	160.8	154.9	160.6	147.6	159.2
	-18.8	-19	158.6	162.6	157.7	162.1	157.5	160.7	154.9	160.5	147.6	159.1
	-16.7	-17	158.6	162.5	157.7	162.0	157.5	160.6	154.9	160.4	147.6	159.1
	-13.7	-15	158.6	162.4	157.7	161.8	157.5	160.5	154.9	160.3	147.6	159.1
	-11.8	-13	158.6	162.3	157.7	161.8	157.5	160.4	154.9	160.2	147.6	159.1
	-9.8	-11	158.6	162.2	157.7	161.7	157.5	160.3	154.9	160.0	147.6	159.1
	-9.5	-10	158.6	162.2	157.7	161.7	157.5	160.3	154.9	160.2	147.6	159.0
	-8.5	-9.1	158.6	162.1	157.7	161.6	157.5	160.2	154.9	160.1	147.6	159.0
	-7.0	-7.6	158.6	162.1	157.7	161.5	157.5	160.2	154.9	159.9	147.6	158.9
	-5.0	-5.6	158.6	161.9	157.7	161.3	157.5	160.1	154.9	159.8	147.6	158.8
	-3.0	-3.7	158.6	158.3	157.7	157.9	157.5	156.5	154.9	156.1	147.6	155.1
	0.0	-0.7	158.6	143.7	157.7	142.3	157.5	142.5	154.9	139.9	147.6	141.6
	3.0	2.2	198.7	131.7	191.4	126.3	182.3	122.7	170.6	120.6	158.9	119.3
	5.0	4.1	198.7	123.5	191.4	118.5	182.3	114.0	170.6	112.0	158.9	110.8
7.0	6.0	198.7	120.0	191.4	115.1	182.3	110.7	170.6	108.7	158.9	107.6	
9.0	7.9	201.3	118.2	194.0	113.6	184.7	108.9	172.9	107.0	161.1	105.9	
11.0	9.8	202.7	117.1	195.3	111.8	186.0	107.9	174.1	106.0	162.2	104.9	
13.0	11.8	204.0	115.9	196.5	111.1	187.2	107.2	175.2	105.3	163.2	104.2	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
100	-19.8	-20	156.6	160.4	155.7	159.9	155.5	158.5	153.0	158.3	145.8	157.0
	-18.8	-19	156.6	160.3	155.7	159.8	155.5	158.4	153.0	158.2	145.8	156.9
	-16.7	-17	156.6	160.2	155.7	159.7	155.5	158.3	153.0	158.1	145.8	156.9
	-13.7	-15	156.6	160.1	155.7	159.5	155.5	158.2	153.0	158.0	145.8	156.9
	-11.8	-13	156.6	160.0	155.7	159.5	155.5	158.1	153.0	157.9	145.8	156.8
	-9.8	-11	156.6	159.9	155.7	159.4	155.5	158.0	153.0	157.7	145.8	156.8
	-9.5	-10	156.6	159.9	155.7	159.4	155.5	158.0	153.0	157.9	145.8	156.7
	-8.5	-9.1	156.6	159.8	155.7	159.3	155.5	158.0	153.0	157.8	145.8	156.7
	-7.0	-7.6	156.6	159.7	155.7	159.2	155.5	157.9	153.0	157.6	145.8	156.6
	-5.0	-5.6	156.6	159.6	155.7	159.0	155.5	157.8	153.0	157.5	145.8	156.5
	-3.0	-3.7	156.6	156.1	155.7	155.6	155.5	154.3	153.0	153.9	145.8	152.9
	0.0	-0.7	156.6	141.7	155.7	140.3	155.5	140.5	153.0	137.9	145.8	139.6
	3.0	2.2	196.2	129.9	189.0	124.5	180.0	121.0	168.5	118.9	157.0	117.6
	5.0	4.1	196.2	121.7	189.0	116.8	180.0	112.4	168.5	110.4	157.0	109.2
7.0	6.0	196.2	118.3	189.0	113.5	180.0	109.1	168.5	107.1	157.0	106.0	
9.0	7.9	196.2	116.5	189.0	112.0	180.0	107.3	168.5	105.4	157.0	104.4	
11.0	9.8	196.2	115.4	189.0	110.2	180.0	106.4	168.5	104.5	157.0	103.4	
13.0	11.8	196.2	114.2	189.0	109.5	180.0	105.7	168.5	103.8	157.0	102.8	
90	-19.8	-20	140.9	146.2	140.1	146.7	140.0	142.7	137.7	140.4	131.2	134.4
	-18.8	-19	140.9	146.1	140.1	146.6	140.0	142.6	137.7	140.4	131.2	134.3
	-16.7	-17	140.9	146.0	140.1	146.5	140.0	142.5	137.7	140.3	131.2	134.3
	-13.7	-15	140.9	145.9	140.1	146.3	140.0	142.4	137.7	140.2	131.2	134.3
	-11.8	-13	140.9	145.9	140.1	146.3	140.0	142.3	137.7	140.1	131.2	134.2
	-9.8	-11	140.9	145.8	140.1	146.3	140.0	142.2	137.7	139.9	131.2	134.2
	-9.5	-10	140.9	145.8	140.1	146.2	140.0	142.2	137.7	140.1	131.2	134.2
	-8.5	-9.1	140.9	145.7	140.1	146.2	140.0	142.2	137.7	140.0	131.2	134.2
	-7.0	-7.6	140.9	145.6	140.1	146.1	140.0	142.1	137.7	139.9	131.2	134.1
	-5.0	-5.6	140.9	145.4	140.1	145.9	140.0	142.0	137.7	139.8	131.2	134.0
	-3.0	-3.7	140.9	142.3	140.1	142.8	140.0	138.9	137.7	136.6	131.2	130.9
	0.0	-0.7	140.9	129.2	140.1	128.7	140.0	126.5	137.7	122.3	131.2	119.5
	3.0	2.2	176.6	118.4	170.1	114.2	162.0	108.9	151.6	105.5	141.3	100.7
	5.0	4.1	176.6	111.0	170.1	107.2	162.0	101.1	151.6	97.9	141.3	93.5
7.0	6.0	176.6	107.8	170.1	104.1	162.0	98.2	151.6	95.0	141.3	90.8	
9.0	7.9	176.6	106.2	170.1	102.8	162.0	96.6	151.6	93.5	141.3	89.4	
11.0	9.8	176.6	105.2	170.1	101.1	162.0	95.7	151.6	92.7	141.3	88.5	
13.0	11.8	176.6	104.1	170.1	100.5	162.0	95.1	151.6	92.1	141.3	88.0	
80	-19.8	-20	125.3	130.0	124.6	130.4	124.4	126.8	122.4	124.8	116.6	119.5
	-18.8	-19	125.3	129.9	124.6	130.3	124.4	126.7	122.4	124.8	116.6	119.4
	-16.7	-17	125.3	129.8	124.6	130.2	124.4	126.7	122.4	124.7	116.6	119.4
	-13.7	-15	125.3	129.7	124.6	130.1	124.4	126.6	122.4	124.6	116.6	119.4
	-11.8	-13	125.3	129.7	124.6	130.1	124.4	126.5	122.4	124.5	116.6	119.3
	-9.8	-11	125.3	129.6	124.6	130.0	124.4	126.4	122.4	124.4	116.6	119.3
	-9.5	-10	125.3	129.6	124.6	130.0	124.4	126.4	122.4	124.5	116.6	119.3
	-8.5	-9.1	125.3	129.5	124.6	129.9	124.4	126.4	122.4	124.4	116.6	119.3
	-7.0	-7.6	125.3	129.4	124.6	129.9	124.4	126.3	122.4	124.3	116.6	119.2
	-5.0	-5.6	125.3	129.3	124.6	129.7	124.4	126.2	122.4	124.2	116.6	119.1
	-3.0	-3.7	125.3	126.5	124.6	126.9	124.4	123.4	122.4	121.4	116.6	116.4
	0.0	-0.7	125.3	114.8	124.6	114.4	124.4	112.4	122.4	108.7	116.6	106.3
	3.0	2.2	157.0	105.2	151.2	101.6	144.0	96.8	134.8	93.7	125.6	89.5
	5.0	4.1	157.0	98.6	151.2	95.3	144.0	89.9	134.8	87.0	125.6	83.1
7.0	6.0	157.0	95.8	151.2	92.5	144.0	87.3	134.8	84.5	125.6	80.7	
9.0	7.9	157.0	94.4	151.2	91.3	144.0	85.9	134.8	83.2	125.6	79.5	
11.0	9.8	157.0	93.5	151.2	89.9	144.0	85.1	134.8	82.4	125.6	78.7	
13.0	11.8	157.0	92.6	151.2	89.3	144.0	84.6	134.8	81.8	125.6	78.2	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
70	-19.8	-20	109.6	113.7	109.0	114.1	108.9	111.0	107.1	109.2	102.1	104.5
	-18.8	-19	109.6	113.6	109.0	114.0	108.9	110.9	107.1	109.2	102.1	104.5
	-16.7	-17	109.6	113.6	109.0	114.0	108.9	110.8	107.1	109.1	102.1	104.5
	-13.7	-15	109.6	113.5	109.0	113.8	108.9	110.8	107.1	109.0	102.1	104.5
	-11.8	-13	109.6	113.4	109.0	113.8	108.9	110.7	107.1	109.0	102.1	104.4
	-9.8	-11	109.6	113.4	109.0	113.8	108.9	110.6	107.1	108.8	102.1	104.4
	-9.5	-10	109.6	113.4	109.0	113.7	108.9	110.6	107.1	109.0	102.1	104.4
	-8.5	-9.1	109.6	113.3	109.0	113.7	108.9	110.6	107.1	108.9	102.1	104.4
	-7.0	-7.6	109.6	113.2	109.0	113.6	108.9	110.5	107.1	108.8	102.1	104.3
	-5.0	-5.6	109.6	113.1	109.0	113.5	108.9	110.4	107.1	108.7	102.1	104.2
	-3.0	-3.7	109.6	110.6	109.0	111.0	108.9	108.0	107.1	106.2	102.1	101.8
	0.0	-0.7	109.6	100.5	109.0	100.1	108.9	98.4	107.1	95.1	102.1	93.0
	3.0	2.2	137.3	92.1	132.3	88.9	126.0	84.7	117.9	82.0	109.9	78.3
	5.0	4.1	137.3	86.3	132.3	83.4	126.0	78.6	117.9	76.2	109.9	72.7
7.0	6.0	137.3	83.9	132.3	81.0	126.0	76.4	117.9	73.9	109.9	70.6	
9.0	7.9	137.3	82.6	132.3	79.9	126.0	75.1	117.9	72.8	109.9	69.5	
11.0	9.8	137.3	81.8	132.3	78.6	126.0	74.4	117.9	72.1	109.9	68.8	
13.0	11.8	137.3	81.0	132.3	78.1	126.0	74.0	117.9	71.6	109.9	68.4	
60	-19.8	-20	94.0	97.5	93.4	97.8	93.3	95.1	91.8	93.6	87.5	89.6
	-18.8	-19	94.0	97.4	93.4	97.7	93.3	95.1	91.8	93.6	87.5	89.5
	-16.7	-17	94.0	97.4	93.4	97.7	93.3	95.0	91.8	93.5	87.5	89.5
	-13.7	-15	94.0	97.3	93.4	97.6	93.3	94.9	91.8	93.5	87.5	89.5
	-11.8	-13	94.0	97.2	93.4	97.6	93.3	94.9	91.8	93.4	87.5	89.5
	-9.8	-11	94.0	97.2	93.4	97.5	93.3	94.8	91.8	93.3	87.5	89.5
	-9.5	-10	94.0	97.2	93.4	97.5	93.3	94.8	91.8	93.4	87.5	89.4
	-8.5	-9.1	94.0	97.1	93.4	97.4	93.3	94.8	91.8	93.3	87.5	89.4
	-7.0	-7.6	94.0	97.1	93.4	97.4	93.3	94.7	91.8	93.2	87.5	89.4
	-5.0	-5.6	94.0	97.0	93.4	97.3	93.3	94.7	91.8	93.2	87.5	89.3
	-3.0	-3.7	94.0	94.8	93.4	95.2	93.3	92.6	91.8	91.0	87.5	87.3
	0.0	-0.7	94.0	86.1	93.4	85.8	93.3	84.3	91.8	81.5	87.5	79.7
	3.0	2.2	117.7	78.9	113.4	76.2	108.0	72.6	101.1	70.3	94.2	67.1
	5.0	4.1	117.7	74.0	113.4	71.5	108.0	67.4	101.1	65.3	94.2	62.3
7.0	6.0	117.7	71.9	113.4	69.4	108.0	65.4	101.1	63.4	94.2	60.5	
9.0	7.9	117.7	70.8	113.4	68.5	108.0	64.4	101.1	62.4	94.2	59.6	
11.0	9.8	117.7	70.1	113.4	67.4	108.0	63.8	101.1	61.8	94.2	59.0	
13.0	11.8	117.7	69.4	113.4	67.0	108.0	63.4	101.1	61.4	94.2	58.7	
50	-19.8	-20	78.3	81.2	77.9	81.5	77.8	79.3	76.5	78.0	72.9	74.7
	-18.8	-19	78.3	81.2	77.9	81.4	77.8	79.2	76.5	78.0	72.9	74.6
	-16.7	-17	78.3	81.1	77.9	81.4	77.8	79.2	76.5	77.9	72.9	74.6
	-13.7	-15	78.3	81.1	77.9	81.3	77.8	79.1	76.5	77.9	72.9	74.6
	-11.8	-13	78.3	81.0	77.9	81.3	77.8	79.1	76.5	77.8	72.9	74.6
	-9.8	-11	78.3	81.0	77.9	81.3	77.8	79.0	76.5	77.7	72.9	74.6
	-9.5	-10	78.3	81.0	77.9	81.2	77.8	79.0	76.5	77.8	72.9	74.5
	-8.5	-9.1	78.3	80.9	77.9	81.2	77.8	79.0	76.5	77.8	72.9	74.5
	-7.0	-7.6	78.3	80.9	77.9	81.2	77.8	78.9	76.5	77.7	72.9	74.5
	-5.0	-5.6	78.3	80.8	77.9	81.1	77.8	78.9	76.5	77.7	72.9	74.4
	-3.0	-3.7	78.3	79.0	77.9	79.3	77.8	77.1	76.5	75.9	72.9	72.7
	0.0	-0.7	78.3	71.8	77.9	71.5	77.8	70.3	76.5	68.0	72.9	66.4
	3.0	2.2	98.1	65.8	94.5	63.5	90.0	60.5	84.2	58.6	78.5	55.9
	5.0	4.1	98.1	61.6	94.5	59.6	90.0	56.2	84.2	54.4	78.5	51.9
7.0	6.0	98.1	59.9	94.5	57.8	90.0	54.5	84.2	52.8	78.5	50.4	
9.0	7.9	98.1	59.0	94.5	57.1	90.0	53.7	84.2	52.0	78.5	49.7	
11.0	9.8	98.1	58.4	94.5	56.2	90.0	53.2	84.2	51.5	78.5	49.2	
13.0	11.8	98.1	57.9	94.5	55.8	90.0	52.8	84.2	51.1	78.5	48.9	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

◆ 60HP

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
130	-19.8	-20	178.3	177.6	177.2	177.0	177.0	175.5	174.2	175.2	166.0	173.7
	-18.8	-19	178.3	177.4	177.2	176.9	177.0	175.4	174.2	175.1	166.0	173.6
	-16.7	-17	178.3	177.3	177.2	176.8	177.0	175.3	174.2	175.0	166.0	173.6
	-13.7	-15	178.3	177.2	177.2	176.6	177.0	175.2	174.2	174.9	166.0	173.6
	-11.8	-13	178.3	177.1	177.2	176.6	177.0	175.1	174.2	174.8	166.0	173.6
	-9.8	-11	178.3	177.0	177.2	176.5	177.0	175.0	174.2	174.6	166.0	173.6
	-9.5	-10	178.3	177.0	177.2	176.4	177.0	175.0	174.2	174.8	166.0	173.5
	-8.5	-9.1	178.3	176.9	177.2	176.4	177.0	174.9	174.2	174.7	166.0	173.5
	-7.0	-7.6	178.3	176.8	177.2	176.3	177.0	174.8	174.2	174.5	166.0	173.4
	-5.0	-5.6	178.3	176.6	177.2	176.1	177.0	174.6	174.2	174.4	166.0	173.3
	-3.0	-3.7	178.3	172.8	177.2	172.2	177.0	170.8	174.2	170.4	166.0	169.3
	0.0	-0.7	178.3	156.8	177.2	155.3	177.0	155.5	174.2	152.6	166.0	154.5
	3.0	2.2	223.3	143.8	215.1	137.8	204.9	133.9	191.8	131.6	178.7	130.2
	5.0	4.1	223.3	134.7	215.1	129.3	204.9	124.4	191.8	122.2	178.7	120.9
	7.0	6.0	223.3	130.9	215.1	125.6	204.9	120.8	191.8	118.6	178.7	117.4
120	9.0	7.9	229.2	129.0	220.9	124.0	210.4	118.8	196.9	116.7	183.5	115.6
	11.0	9.8	230.8	127.7	222.3	122.0	211.7	117.7	198.2	115.7	184.6	114.4
	13.0	11.8	232.2	126.5	223.9	121.2	213.2	117.0	199.5	114.9	185.9	113.7
	-19.8	-20	172.7	175.1	171.7	174.5	171.5	173.0	168.7	172.8	160.8	171.3
	-18.8	-19	172.7	175.0	171.7	174.4	171.5	172.9	168.7	172.7	160.8	171.2
	-16.7	-17	172.7	174.9	171.7	174.3	171.5	172.8	168.7	172.6	160.8	171.2
	-13.7	-15	172.7	174.8	171.7	174.1	171.5	172.7	168.7	172.5	160.8	171.2
	-11.8	-13	172.7	174.7	171.7	174.1	171.5	172.6	168.7	172.4	160.8	171.1
	-9.8	-11	172.7	174.6	171.7	174.0	171.5	172.5	168.7	172.1	160.8	171.1
	-9.5	-10	172.7	174.6	171.7	174.0	171.5	172.5	168.7	172.3	160.8	171.0
	-8.5	-9.1	172.7	174.5	171.7	173.9	171.5	172.4	168.7	172.2	160.8	171.0
	-7.0	-7.6	172.7	174.4	171.7	173.8	171.5	172.3	168.7	172.1	160.8	170.9
	-5.0	-5.6	172.7	174.2	171.7	173.6	171.5	172.2	168.7	172.0	160.8	170.8
	-3.0	-3.7	172.7	170.4	171.7	169.8	171.5	168.4	168.7	168.0	160.8	166.9
	0.0	-0.7	172.7	154.7	171.7	153.1	171.5	153.4	168.7	150.5	160.8	152.4
3.0	2.2	216.3	141.8	208.4	135.9	198.5	132.1	185.8	129.8	173.1	128.4	
5.0	4.1	216.3	132.9	208.4	127.6	198.5	122.6	185.8	120.5	173.1	119.2	
7.0	6.0	216.3	129.1	208.4	123.9	198.5	119.1	185.8	116.9	173.1	115.7	
9.0	7.9	220.8	127.2	212.7	122.3	202.6	117.2	189.6	115.1	176.6	114.0	
11.0	9.8	222.2	126.0	214.1	120.3	203.9	116.1	190.8	114.1	177.8	112.8	
13.0	11.8	223.6	124.7	215.4	119.5	205.2	115.4	192.0	113.3	178.9	112.2	
110	-19.8	-20	167.4	172.7	166.4	172.1	166.2	170.7	163.5	170.4	155.8	169.0
	-18.8	-19	167.4	172.6	166.4	172.0	166.2	170.6	163.5	170.3	155.8	168.9
	-16.7	-17	167.4	172.5	166.4	171.9	166.2	170.4	163.5	170.2	155.8	168.9
	-13.7	-15	167.4	172.4	166.4	171.7	166.2	170.3	163.5	170.1	155.8	168.9
	-11.8	-13	167.4	172.3	166.4	171.7	166.2	170.2	163.5	170.0	155.8	168.8
	-9.8	-11	167.4	172.2	166.4	171.6	166.2	170.1	163.5	169.8	155.8	168.8
	-9.5	-10	167.4	172.2	166.4	171.6	166.2	170.1	163.5	170.0	155.8	168.7
	-8.5	-9.1	167.4	172.1	166.4	171.5	166.2	170.0	163.5	169.9	155.8	168.7
	-7.0	-7.6	167.4	172.0	166.4	171.4	166.2	169.9	163.5	169.7	155.8	168.6
	-5.0	-5.6	167.4	171.8	166.4	171.2	166.2	169.8	163.5	169.6	155.8	168.5
	-3.0	-3.7	167.4	168.0	166.4	167.5	166.2	166.1	163.5	165.7	155.8	164.6
	0.0	-0.7	167.4	152.5	166.4	151.0	166.2	151.3	163.5	148.4	155.8	150.3
	3.0	2.2	209.7	139.8	202.0	134.0	192.4	130.2	180.1	128.0	167.8	126.6
	5.0	4.1	209.7	131.0	202.0	125.8	192.4	121.0	180.1	118.8	167.8	117.6
	7.0	6.0	209.7	127.3	202.0	122.1	192.4	117.4	180.1	115.3	167.8	114.1
9.0	7.9	212.5	125.5	204.7	120.6	195.0	115.5	182.5	113.5	170.0	112.4	
11.0	9.8	213.9	124.2	206.1	118.6	196.3	114.5	183.7	112.5	171.2	111.3	
13.0	11.8	215.4	123.0	207.5	117.9	197.6	113.8	184.9	111.7	172.3	110.6	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
100	-19.8	-20	165.3	170.2	164.4	169.6	164.2	168.2	161.5	167.9	153.9	166.5
	-18.8	-19	165.3	170.1	164.4	169.5	164.2	168.1	161.5	167.8	153.9	166.4
	-16.7	-17	165.3	170.0	164.4	169.4	164.2	168.0	161.5	167.7	153.9	166.4
	-13.7	-15	165.3	169.9	164.4	169.2	164.2	167.9	161.5	167.6	153.9	166.4
	-11.8	-13	165.3	169.8	164.4	169.2	164.2	167.8	161.5	167.6	153.9	166.4
	-9.8	-11	165.3	169.7	164.4	169.1	164.2	167.7	161.5	167.5	153.9	166.4
	-9.5	-10	165.3	169.7	164.4	169.1	164.2	167.7	161.5	167.5	153.9	166.3
	-8.5	-9.1	165.3	169.6	164.4	169.1	164.2	167.6	161.5	167.4	153.9	166.3
	-7.0	-7.6	165.3	169.5	164.4	168.9	164.2	167.5	161.5	167.3	153.9	166.2
	-5.0	-5.6	165.3	169.3	164.4	168.8	164.2	167.4	161.5	167.2	153.9	166.1
	-3.0	-3.7	165.3	165.6	164.4	165.1	164.2	163.7	161.5	163.3	153.9	162.2
	0.0	-0.7	165.3	150.3	164.4	148.9	164.2	149.1	161.5	146.3	153.9	148.1
	3.0	2.2	207.1	137.8	199.5	132.1	190.0	128.4	177.8	126.1	165.7	124.8
5.0	4.1	207.1	129.2	199.5	124.0	190.0	119.2	177.8	117.1	165.7	115.9	
7.0	6.0	207.1	125.5	199.5	120.4	190.0	115.7	177.8	113.7	165.7	112.5	
9.0	7.9	207.1	123.7	199.5	118.8	190.0	113.9	177.8	111.9	165.7	110.8	
11.0	9.8	207.1	122.4	199.5	116.9	190.0	112.9	177.8	110.9	165.7	109.7	
13.0	11.8	207.1	121.2	199.5	116.2	190.0	112.2	177.8	110.1	165.7	109.0	
90	-19.8	-20	148.8	155.1	147.9	155.7	147.7	151.4	145.4	149.0	138.5	142.6
	-18.8	-19	148.8	155.1	147.9	155.6	147.7	151.3	145.4	148.9	138.5	142.5
	-16.7	-17	148.8	155.0	147.9	155.5	147.7	151.2	145.4	148.8	138.5	142.5
	-13.7	-15	148.8	154.9	147.9	155.3	147.7	151.1	145.4	148.8	138.5	142.5
	-11.8	-13	148.8	154.8	147.9	155.3	147.7	151.0	145.4	148.7	138.5	142.4
	-9.8	-11	148.8	154.7	147.9	155.2	147.7	150.9	145.4	148.5	138.5	142.4
	-9.5	-10	148.8	154.7	147.9	155.2	147.7	150.9	145.4	148.7	138.5	142.4
	-8.5	-9.1	148.8	154.6	147.9	155.1	147.7	150.8	145.4	148.6	138.5	142.4
	-7.0	-7.6	148.8	154.5	147.9	155.0	147.7	150.8	145.4	148.4	138.5	142.3
	-5.0	-5.6	148.8	154.3	147.9	154.8	147.7	150.7	145.4	148.3	138.5	142.2
	-3.0	-3.7	148.8	151.0	147.9	151.5	147.7	147.3	145.4	144.9	138.5	138.9
	0.0	-0.7	148.8	137.0	147.9	136.6	147.7	134.2	145.4	129.8	138.5	126.8
	3.0	2.2	186.4	125.6	179.6	121.2	171.0	115.5	160.1	111.9	149.1	106.8
5.0	4.1	186.4	117.7	179.6	113.8	171.0	107.3	160.1	103.9	149.1	99.2	
7.0	6.0	186.4	114.4	179.6	110.5	171.0	104.2	160.1	100.8	149.1	96.3	
9.0	7.9	186.4	112.7	179.6	109.0	171.0	102.5	160.1	99.3	149.1	94.8	
11.0	9.8	186.4	111.6	179.6	107.3	171.0	101.6	160.1	98.4	149.1	93.9	
13.0	11.8	186.4	110.5	179.6	106.6	171.0	100.9	160.1	97.7	149.1	93.4	
80	-19.8	-20	132.2	137.9	131.5	138.4	131.3	134.6	129.2	132.5	123.1	126.8
	-18.8	-19	132.2	137.8	131.5	138.3	131.3	134.5	129.2	132.4	123.1	126.7
	-16.7	-17	132.2	137.7	131.5	138.2	131.3	134.4	129.2	132.3	123.1	126.7
	-13.7	-15	132.2	137.7	131.5	138.0	131.3	134.3	129.2	132.2	123.1	126.7
	-11.8	-13	132.2	137.6	131.5	138.0	131.3	134.2	129.2	132.2	123.1	126.6
	-9.8	-11	132.2	137.5	131.5	138.0	131.3	134.2	129.2	132.0	123.1	126.6
	-9.5	-10	132.2	137.5	131.5	137.9	131.3	134.2	129.2	132.1	123.1	126.5
	-8.5	-9.1	132.2	137.4	131.5	137.9	131.3	134.1	129.2	132.0	123.1	126.5
	-7.0	-7.6	132.2	137.3	131.5	137.8	131.3	134.0	129.2	131.9	123.1	126.5
	-5.0	-5.6	132.2	137.2	131.5	137.6	131.3	133.9	129.2	131.8	123.1	126.4
	-3.0	-3.7	132.2	134.2	131.5	134.6	131.3	131.0	129.2	128.8	123.1	123.5
	0.0	-0.7	132.2	121.8	131.5	121.4	131.3	119.3	129.2	115.4	123.1	112.8
	3.0	2.2	165.7	111.7	159.6	107.8	152.0	102.7	142.3	99.5	132.5	95.0
5.0	4.1	165.7	104.7	159.6	101.1	152.0	95.4	142.3	92.4	132.5	88.2	
7.0	6.0	165.7	101.7	159.6	98.2	152.0	92.6	142.3	89.6	132.5	85.6	
9.0	7.9	165.7	100.2	159.6	96.9	152.0	91.1	142.3	88.2	132.5	84.3	
11.0	9.8	165.7	99.2	159.6	95.4	152.0	90.3	142.3	87.4	132.5	83.5	
13.0	11.8	165.7	98.2	159.6	94.8	152.0	89.7	142.3	86.8	132.5	83.0	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
70	-19.8	-20	115.7	120.7	115.0	121.1	114.9	117.7	113.1	115.9	107.7	110.9
	-18.8	-19	115.7	120.6	115.0	121.0	114.9	117.7	113.1	115.8	107.7	110.9
	-16.7	-17	115.7	120.5	115.0	120.9	114.9	117.6	113.1	115.8	107.7	110.9
	-13.7	-15	115.7	120.5	115.0	120.8	114.9	117.5	113.1	115.7	107.7	110.9
	-11.8	-13	115.7	120.4	115.0	120.8	114.9	117.5	113.1	115.6	107.7	110.8
	-9.8	-11	115.7	120.3	115.0	120.7	114.9	117.4	113.1	115.5	107.7	110.8
	-9.5	-10	115.7	120.3	115.0	120.7	114.9	117.4	113.1	115.6	107.7	110.7
	-8.5	-9.1	115.7	120.2	115.0	120.6	114.9	117.3	113.1	115.5	107.7	110.7
	-7.0	-7.6	115.7	120.2	115.0	120.6	114.9	117.3	113.1	115.4	107.7	110.7
	-5.0	-5.6	115.7	120.0	115.0	120.4	114.9	117.2	113.1	115.4	107.7	110.6
	-3.0	-3.7	115.7	117.4	115.0	117.8	114.9	114.6	113.1	112.7	107.7	108.0
	0.0	-0.7	115.7	106.6	115.0	106.2	114.9	104.4	113.1	100.9	107.7	98.7
	3.0	2.2	145.0	97.7	139.7	94.3	133.0	89.9	124.5	87.0	116.0	83.1
5.0	4.1	145.0	91.6	139.7	88.5	133.0	83.5	124.5	80.8	116.0	77.2	
7.0	6.0	145.0	89.0	139.7	85.9	133.0	81.0	124.5	78.4	116.0	74.9	
9.0	7.9	145.0	87.7	139.7	84.8	133.0	79.7	124.5	77.2	116.0	73.8	
11.0	9.8	145.0	86.8	139.7	83.4	133.0	79.0	124.5	76.5	116.0	73.0	
13.0	11.8	145.0	85.9	139.7	82.9	133.0	78.5	124.5	76.0	116.0	72.6	
60	-19.8	-20	99.2	103.4	98.6	103.8	98.5	100.9	96.9	99.3	92.3	95.1
	-18.8	-19	99.2	103.4	98.6	103.7	98.5	100.9	96.9	99.3	92.3	95.0
	-16.7	-17	99.2	103.3	98.6	103.6	98.5	100.8	96.9	99.2	92.3	95.0
	-13.7	-15	99.2	103.2	98.6	103.5	98.5	100.7	96.9	99.2	92.3	95.0
	-11.8	-13	99.2	103.2	98.6	103.5	98.5	100.7	96.9	99.1	92.3	95.0
	-9.8	-11	99.2	103.1	98.6	103.5	98.5	100.6	96.9	99.0	92.3	95.0
	-9.5	-10	99.2	103.1	98.6	103.4	98.5	100.6	96.9	99.1	92.3	94.9
	-8.5	-9.1	99.2	103.1	98.6	103.4	98.5	100.6	96.9	99.0	92.3	94.9
	-7.0	-7.6	99.2	103.0	98.6	103.3	98.5	100.5	96.9	98.9	92.3	94.9
	-5.0	-5.6	99.2	102.9	98.6	103.2	98.5	100.4	96.9	98.9	92.3	94.8
	-3.0	-3.7	99.2	100.6	98.6	101.0	98.5	98.2	96.9	96.6	92.3	92.6
	0.0	-0.7	99.2	91.4	98.6	91.1	98.5	89.5	96.9	86.5	92.3	84.6
	3.0	2.2	124.3	83.7	119.7	80.8	114.0	77.0	106.7	74.6	99.4	71.2
5.0	4.1	124.3	78.5	119.7	75.8	114.0	71.5	106.7	69.3	99.4	66.1	
7.0	6.0	124.3	76.3	119.7	73.6	114.0	69.4	106.7	67.2	99.4	64.2	
9.0	7.9	124.3	75.2	119.7	72.7	114.0	68.3	106.7	66.2	99.4	63.2	
11.0	9.8	124.3	74.4	119.7	71.5	114.0	67.7	106.7	65.6	99.4	62.6	
13.0	11.8	124.3	73.7	119.7	71.1	114.0	67.3	106.7	65.1	99.4	62.2	
50	-19.8	-20	82.7	86.2	82.2	86.5	82.1	84.1	80.8	82.8	77.0	79.2
	-18.8	-19	82.7	86.1	82.2	86.4	82.1	84.1	80.8	82.7	77.0	79.2
	-16.7	-17	82.7	86.1	82.2	86.4	82.1	84.0	80.8	82.7	77.0	79.2
	-13.7	-15	82.7	86.0	82.2	86.3	82.1	84.0	80.8	82.6	77.0	79.2
	-11.8	-13	82.7	86.0	82.2	86.3	82.1	83.9	80.8	82.6	77.0	79.1
	-9.8	-11	82.7	85.9	82.2	86.2	82.1	83.9	80.8	82.5	77.0	79.1
	-9.5	-10	82.7	85.9	82.2	86.2	82.1	83.9	80.8	82.6	77.0	79.1
	-8.5	-9.1	82.7	85.9	82.2	86.2	82.1	83.8	80.8	82.5	77.0	79.1
	-7.0	-7.6	82.7	85.8	82.2	86.1	82.1	83.8	80.8	82.5	77.0	79.0
	-5.0	-5.6	82.7	85.7	82.2	86.0	82.1	83.7	80.8	82.4	77.0	79.0
	-3.0	-3.7	82.7	83.9	82.2	84.2	82.1	81.9	80.8	80.5	77.0	77.2
	0.0	-0.7	82.7	76.1	82.2	75.9	82.1	74.5	80.8	72.1	77.0	70.5
	3.0	2.2	103.6	69.8	99.8	67.3	95.0	64.2	88.9	62.2	82.8	59.4
5.0	4.1	103.6	65.4	99.8	63.2	95.0	59.6	88.9	57.7	82.8	55.1	
7.0	6.0	103.6	63.6	99.8	61.4	95.0	57.9	88.9	56.0	82.8	53.5	
9.0	7.9	103.6	62.6	99.8	60.6	95.0	56.9	88.9	55.1	82.8	52.7	
11.0	9.8	103.6	62.0	99.8	59.6	95.0	56.4	88.9	54.7	82.8	52.2	
13.0	11.8	103.6	61.4	99.8	59.2	95.0	56.1	88.9	54.3	82.8	51.9	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

◆ 64HP

Combination (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
130	-19.8	-20	187.6	189.0	186.6	188.4	186.3	186.8	183.3	186.5	174.7	185.0
	-18.8	-19	187.6	188.9	186.6	188.3	186.3	186.7	183.3	186.4	174.7	184.9
	-16.7	-17	187.6	188.8	186.6	188.2	186.3	186.6	183.3	186.3	174.7	184.9
	-13.7	-15	187.6	188.7	186.6	188.0	186.3	186.5	183.3	186.2	174.7	184.9
	-11.8	-13	187.6	188.6	186.6	188.0	186.3	186.4	183.3	186.1	174.7	184.8
	-9.8	-11	187.6	188.5	186.6	187.9	186.3	186.3	183.3	185.8	174.7	184.8
	-9.5	-10	187.6	188.5	186.6	187.8	186.3	186.3	183.3	186.1	174.7	184.7
	-8.5	-9.1	187.6	188.4	186.6	187.8	186.3	186.1	183.3	185.9	174.7	184.7
	-7.0	-7.6	187.6	188.2	186.6	187.6	186.3	186.0	183.3	185.8	174.7	184.6
	-5.0	-5.6	187.6	188.0	186.6	187.4	186.3	185.9	183.3	185.6	174.7	184.4
	-3.0	-3.7	187.6	183.9	186.6	183.4	186.3	181.8	183.3	181.4	174.7	180.2
	0.0	-0.7	187.6	167.0	186.6	165.3	186.3	165.6	183.3	162.5	174.7	164.5
	3.0	2.2	235.1	153.0	226.5	146.7	215.7	142.6	201.9	140.1	188.1	138.6
	5.0	4.1	235.1	143.4	226.5	137.7	215.7	132.4	201.9	130.1	188.1	128.7
	7.0	6.0	235.1	139.4	226.5	133.7	215.7	128.5	201.9	126.2	188.1	125.0
9.0	7.9	241.3	137.3	232.5	132.0	221.5	126.5	207.3	124.2	193.2	123.0	
11.0	9.8	243.0	136.0	234.0	129.8	222.9	125.3	208.7	123.1	194.3	121.8	
13.0	11.8	244.5	134.6	235.7	129.1	224.5	124.6	210.0	122.3	195.6	121.1	
120	-19.8	-20	181.8	186.4	180.7	185.8	180.5	184.2	177.6	183.9	169.2	182.4
	-18.8	-19	181.8	186.3	180.7	185.7	180.5	184.1	177.6	183.8	169.2	182.3
	-16.7	-17	181.8	186.2	180.7	185.6	180.5	184.0	177.6	183.7	169.2	182.3
	-13.7	-15	181.8	186.1	180.7	185.4	180.5	183.9	177.6	183.6	169.2	182.3
	-11.8	-13	181.8	186.0	180.7	185.4	180.5	183.8	177.6	183.5	169.2	182.2
	-9.8	-11	181.8	185.8	180.7	185.2	180.5	183.7	177.6	183.3	169.2	182.2
	-9.5	-10	181.8	185.8	180.7	185.2	180.5	183.7	177.6	183.5	169.2	182.1
	-8.5	-9.1	181.8	185.7	180.7	185.1	180.5	183.6	177.6	183.4	169.2	182.1
	-7.0	-7.6	181.8	185.6	180.7	185.0	180.5	183.5	177.6	183.2	169.2	182.0
	-5.0	-5.6	181.8	185.4	180.7	184.8	180.5	183.3	177.6	183.1	169.2	181.9
	-3.0	-3.7	181.8	181.4	180.7	180.8	180.5	179.3	177.6	178.9	169.2	177.7
	0.0	-0.7	181.8	164.7	180.7	163.0	180.5	163.3	177.6	160.2	169.2	162.2
	3.0	2.2	227.7	150.9	219.4	144.7	208.9	140.6	195.5	138.1	182.2	136.6
	5.0	4.1	227.7	141.5	219.4	135.8	208.9	130.6	195.5	128.3	182.2	126.9
	7.0	6.0	227.7	137.4	219.4	131.9	208.9	126.8	195.5	124.5	182.2	123.2
9.0	7.9	232.4	135.4	223.9	130.1	213.2	124.7	199.6	122.5	185.9	121.3	
11.0	9.8	233.9	134.1	225.3	128.0	214.6	123.6	200.9	121.4	187.1	120.1	
13.0	11.8	235.4	132.8	226.8	127.3	216.0	122.8	202.1	120.6	188.3	119.4	
110	-19.8	-20	176.2	183.8	175.2	183.2	175.0	181.7	172.1	181.4	164.0	179.9
	-18.8	-19	176.2	183.7	175.2	183.1	175.0	181.6	172.1	181.3	164.0	179.8
	-16.7	-17	176.2	183.6	175.2	183.0	175.0	181.5	172.1	181.2	164.0	179.8
	-13.7	-15	176.2	183.5	175.2	182.8	175.0	181.3	172.1	181.1	164.0	179.8
	-11.8	-13	176.2	183.4	175.2	182.8	175.0	181.2	172.1	181.0	164.0	179.7
	-9.8	-11	176.2	183.3	175.2	182.7	175.0	181.1	172.1	180.7	164.0	179.7
	-9.5	-10	176.2	183.3	175.2	182.7	175.0	181.1	172.1	180.9	164.0	179.6
	-8.5	-9.1	176.2	183.2	175.2	182.6	175.0	181.0	172.1	180.8	164.0	179.6
	-7.0	-7.6	176.2	183.1	175.2	182.5	175.0	180.9	172.1	180.6	164.0	179.5
	-5.0	-5.6	176.2	182.9	175.2	182.3	175.0	180.8	172.1	180.5	164.0	179.4
	-3.0	-3.7	176.2	178.9	175.2	178.3	175.0	176.8	172.1	176.4	164.0	175.2
	0.0	-0.7	176.2	162.4	175.2	160.8	175.0	161.0	172.1	158.0	164.0	160.0
	3.0	2.2	220.7	148.8	212.6	142.7	202.5	138.6	189.5	136.2	176.6	134.8
	5.0	4.1	220.7	139.5	212.6	133.9	202.5	128.8	189.5	126.5	176.6	125.1
	7.0	6.0	220.7	135.5	212.6	130.0	202.5	125.0	189.5	122.8	176.6	121.5
9.0	7.9	223.7	133.6	215.5	128.3	205.2	123.0	192.1	120.8	179.0	119.6	
11.0	9.8	225.2	132.2	216.9	126.3	206.6	121.9	193.4	119.7	180.2	118.5	
13.0	11.8	226.7	130.9	218.4	125.5	208.0	121.1	194.7	118.9	181.4	117.8	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
100	-19.8	-20	174.0	181.2	173.0	180.6	172.8	179.1	170.0	178.8	162.0	177.3
	-18.8	-19	174.0	181.1	173.0	180.5	172.8	179.0	170.0	178.7	162.0	177.2
	-16.7	-17	174.0	181.0	173.0	180.4	172.8	178.9	170.0	178.6	162.0	177.2
	-13.7	-15	174.0	180.9	173.0	180.2	172.8	178.7	170.0	178.5	162.0	177.2
	-11.8	-13	174.0	180.8	173.0	180.2	172.8	178.6	170.0	178.4	162.0	177.1
	-9.8	-11	174.0	180.7	173.0	180.1	172.8	178.5	170.0	178.1	162.0	177.1
	-9.5	-10	174.0	180.7	173.0	180.0	172.8	178.5	170.0	178.3	162.0	177.0
	-8.5	-9.1	174.0	180.5	173.0	180.0	172.8	178.4	170.0	178.2	162.0	177.0
	-7.0	-7.6	174.0	180.4	173.0	179.9	172.8	178.3	170.0	178.1	162.0	176.9
	-5.0	-5.6	174.0	180.2	173.0	179.6	172.8	178.2	170.0	178.0	162.0	176.8
	-3.0	-3.7	174.0	176.3	173.0	175.8	172.8	174.3	170.0	173.9	162.0	172.7
	0.0	-0.7	174.0	160.1	173.0	158.5	172.8	158.7	170.0	155.7	162.0	157.7
	3.0	2.2	218.0	146.7	210.0	140.7	200.0	136.7	187.2	134.3	174.4	132.8
	5.0	4.1	218.0	137.5	210.0	132.0	200.0	126.9	187.2	124.7	174.4	123.4
7.0	6.0	218.0	133.6	210.0	128.2	200.0	123.2	187.2	121.0	174.4	119.8	
9.0	7.9	218.0	131.7	210.0	126.5	200.0	121.2	187.2	119.1	174.4	117.9	
11.0	9.8	218.0	130.4	210.0	124.5	200.0	120.1	187.2	118.0	174.4	116.8	
13.0	11.8	218.0	129.0	210.0	123.7	200.0	119.4	187.2	117.2	174.4	116.1	
90	-19.8	-20	156.6	165.2	155.7	165.7	155.5	161.2	153.0	158.6	145.8	151.8
	-18.8	-19	156.6	165.1	155.7	165.6	155.5	161.1	153.0	158.5	145.8	151.7
	-16.7	-17	156.6	165.0	155.7	165.5	155.5	161.0	153.0	158.5	145.8	151.7
	-13.7	-15	156.6	164.9	155.7	165.3	155.5	160.9	153.0	158.4	145.8	151.7
	-11.8	-13	156.6	164.8	155.7	165.3	155.5	160.8	153.0	158.3	145.8	151.6
	-9.8	-11	156.6	164.7	155.7	165.2	155.5	160.7	153.0	158.1	145.8	151.6
	-9.5	-10	156.6	164.7	155.7	165.2	155.5	160.7	153.0	158.2	145.8	151.6
	-8.5	-9.1	156.6	164.6	155.7	165.1	155.5	160.6	153.0	158.1	145.8	151.6
	-7.0	-7.6	156.6	164.5	155.7	165.0	155.5	160.5	153.0	158.0	145.8	151.5
	-5.0	-5.6	156.6	164.3	155.7	164.8	155.5	160.4	153.0	157.9	145.8	151.4
	-3.0	-3.7	156.6	160.7	155.7	161.3	155.5	156.9	153.0	154.3	145.8	147.9
	0.0	-0.7	156.6	145.9	155.7	145.4	155.5	142.8	153.0	138.2	145.8	135.0
	3.0	2.2	196.2	133.7	189.0	129.1	180.0	123.0	168.5	119.1	157.0	113.7
	5.0	4.1	196.2	125.3	189.0	121.1	180.0	114.2	168.5	110.6	157.0	105.6
7.0	6.0	196.2	121.8	189.0	117.6	180.0	110.9	168.5	107.4	157.0	102.6	
9.0	7.9	196.2	120.0	189.0	116.1	180.0	109.1	168.5	105.7	157.0	101.0	
11.0	9.8	196.2	118.8	189.0	114.2	180.0	108.1	168.5	104.7	157.0	100.0	
13.0	11.8	196.2	117.6	189.0	113.5	180.0	107.5	168.5	104.0	157.0	99.4	
80	-19.8	-20	139.2	146.8	138.4	147.3	138.2	143.3	136.0	141.0	129.6	134.9
	-18.8	-19	139.2	146.7	138.4	147.2	138.2	143.2	136.0	140.9	129.6	134.9
	-16.7	-17	139.2	146.6	138.4	147.1	138.2	143.1	136.0	140.8	129.6	134.9
	-13.7	-15	139.2	146.6	138.4	146.9	138.2	143.0	136.0	140.8	129.6	134.9
	-11.8	-13	139.2	146.5	138.4	146.9	138.2	142.9	136.0	140.7	129.6	134.8
	-9.8	-11	139.2	146.4	138.4	146.9	138.2	142.8	136.0	140.5	129.6	134.8
	-9.5	-10	139.2	146.4	138.4	146.8	138.2	142.8	136.0	140.7	129.6	134.7
	-8.5	-9.1	139.2	146.3	138.4	146.8	138.2	142.7	136.0	140.6	129.6	134.7
	-7.0	-7.6	139.2	146.2	138.4	146.7	138.2	142.7	136.0	140.4	129.6	134.6
	-5.0	-5.6	139.2	146.0	138.4	146.5	138.2	142.6	136.0	140.4	129.6	134.6
	-3.0	-3.7	139.2	142.8	138.4	143.3	138.2	139.4	136.0	137.1	129.6	131.5
	0.0	-0.7	139.2	129.7	138.4	129.2	138.2	127.0	136.0	122.8	129.6	120.0
	3.0	2.2	174.4	118.9	168.0	114.7	160.0	109.3	149.8	105.9	139.5	101.1
	5.0	4.1	174.4	111.4	168.0	107.6	160.0	101.5	149.8	98.3	139.5	93.9
7.0	6.0	174.4	108.3	168.0	104.5	160.0	98.6	149.8	95.4	139.5	91.2	
9.0	7.9	174.4	106.7	168.0	103.2	160.0	97.0	149.8	93.9	139.5	89.8	
11.0	9.8	174.4	105.6	168.0	101.5	160.0	96.1	149.8	93.1	139.5	88.9	
13.0	11.8	174.4	104.6	168.0	100.9	160.0	95.5	149.8	92.4	139.5	88.3	

Note

1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

8. Capacity tables

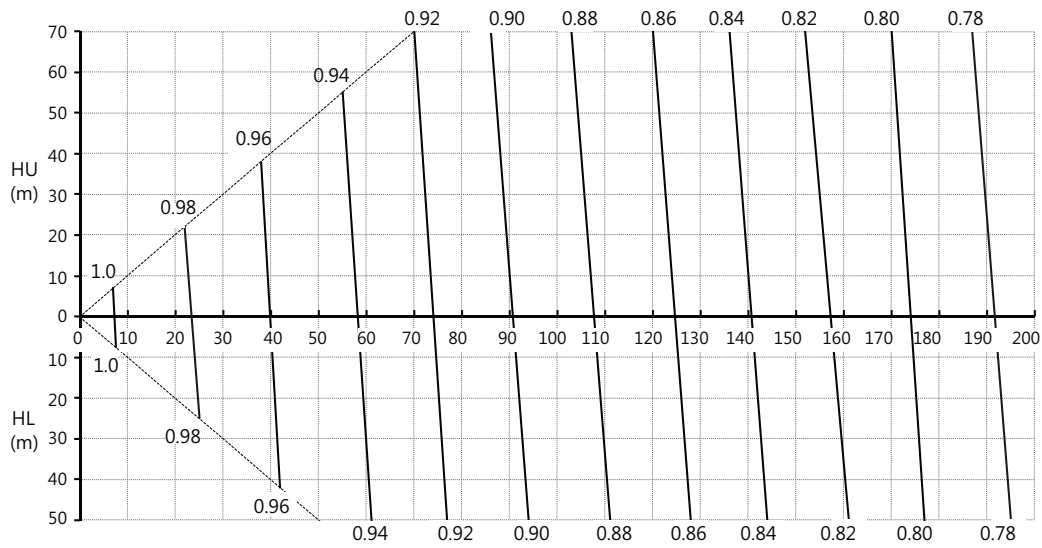
Combi- nation (%)	Outdoor air temp.		Indoor air temp. °C DB									
			16		18		20		22		24	
	°C DB	°C WB	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
70	-19.8	-20	121.8	128.5	121.1	128.9	121.0	125.3	119.0	123.4	113.4	118.1
	-18.8	-19	121.8	128.4	121.1	128.8	121.0	125.3	119.0	123.3	113.4	118.0
	-16.7	-17	121.8	128.3	121.1	128.7	121.0	125.2	119.0	123.2	113.4	118.0
	-13.7	-15	121.8	128.2	121.1	128.6	121.0	125.1	119.0	123.2	113.4	118.0
	-11.8	-13	121.8	128.2	121.1	128.6	121.0	125.1	119.0	123.1	113.4	117.9
	-9.8	-11	121.8	128.1	121.1	128.5	121.0	125.0	119.0	122.9	113.4	117.9
	-9.5	-10	121.8	128.1	121.1	128.5	121.0	125.0	119.0	123.1	113.4	117.9
	-8.5	-9.1	121.8	128.0	121.1	128.4	121.0	124.9	119.0	123.0	113.4	117.9
	-7.0	-7.6	121.8	127.9	121.1	128.4	121.0	124.8	119.0	122.9	113.4	117.8
	-5.0	-5.6	121.8	127.8	121.1	128.2	121.0	124.8	119.0	122.8	113.4	117.7
	-3.0	-3.7	121.8	125.0	121.1	125.4	121.0	122.0	119.0	120.0	113.4	115.0
	0.0	-0.7	121.8	113.5	121.1	113.1	121.0	111.1	119.0	107.5	113.4	105.0
	3.0	2.2	152.6	104.0	147.0	100.4	140.0	95.7	131.0	92.7	122.1	88.5
	5.0	4.1	152.6	97.5	147.0	94.2	140.0	88.8	131.0	86.0	122.1	82.1
7.0	6.0	152.6	94.7	147.0	91.5	140.0	86.3	131.0	83.5	122.1	79.8	
9.0	7.9	152.6	93.3	147.0	90.3	140.0	84.9	131.0	82.2	122.1	78.5	
11.0	9.8	152.6	92.4	147.0	88.8	140.0	84.1	131.0	81.5	122.1	77.8	
13.0	11.8	152.6	91.5	147.0	88.3	140.0	83.6	131.0	80.9	122.1	77.3	
60	-19.8	-20	104.4	110.1	103.8	110.5	103.7	107.4	102.0	105.8	97.2	101.2
	-18.8	-19	104.4	110.0	103.8	110.4	103.7	107.4	102.0	105.7	97.2	101.2
	-16.7	-17	104.4	110.0	103.8	110.3	103.7	107.3	102.0	105.6	97.2	101.2
	-13.7	-15	104.4	109.9	103.8	110.2	103.7	107.2	102.0	105.6	97.2	101.2
	-11.8	-13	104.4	109.8	103.8	110.2	103.7	107.2	102.0	105.5	97.2	101.1
	-9.8	-11	104.4	109.8	103.8	110.1	103.7	107.1	102.0	105.4	97.2	101.1
	-9.5	-10	104.4	109.8	103.8	110.1	103.7	107.1	102.0	105.5	97.2	101.0
	-8.5	-9.1	104.4	109.7	103.8	110.1	103.7	107.1	102.0	105.4	97.2	101.0
	-7.0	-7.6	104.4	109.7	103.8	110.0	103.7	107.0	102.0	105.3	97.2	101.0
	-5.0	-5.6	104.4	109.5	103.8	109.9	103.7	106.9	102.0	105.3	97.2	100.9
	-3.0	-3.7	104.4	107.1	103.8	107.5	103.7	104.6	102.0	102.8	97.2	98.6
	0.0	-0.7	104.4	97.3	103.8	96.9	103.7	95.2	102.0	92.1	97.2	90.0
	3.0	2.2	130.8	89.1	126.0	86.0	120.0	82.0	112.3	79.4	104.6	75.8
	5.0	4.1	130.8	83.6	126.0	80.7	120.0	76.1	112.3	73.7	104.6	70.4
7.0	6.0	130.8	81.2	126.0	78.4	120.0	73.9	112.3	71.6	104.6	68.4	
9.0	7.9	130.8	80.0	126.0	77.4	120.0	72.7	112.3	70.5	104.6	67.3	
11.0	9.8	130.8	79.2	126.0	76.1	120.0	72.1	112.3	69.8	104.6	66.7	
13.0	11.8	130.8	78.4	126.0	75.7	120.0	71.6	112.3	69.3	104.6	66.3	
50	-19.8	-20	87.0	91.8	86.5	92.1	86.4	89.5	85.0	88.1	81.0	84.3
	-18.8	-19	87.0	91.7	86.5	92.0	86.4	89.5	85.0	88.1	81.0	84.3
	-16.7	-17	87.0	91.6	86.5	91.9	86.4	89.4	85.0	88.0	81.0	84.3
	-13.7	-15	87.0	91.6	86.5	91.8	86.4	89.4	85.0	88.0	81.0	84.3
	-11.8	-13	87.0	91.5	86.5	91.8	86.4	89.3	85.0	87.9	81.0	84.2
	-9.8	-11	87.0	91.5	86.5	91.8	86.4	89.3	85.0	87.8	81.0	84.2
	-9.5	-10	87.0	91.5	86.5	91.8	86.4	89.3	85.0	87.9	81.0	84.2
	-8.5	-9.1	87.0	91.4	86.5	91.7	86.4	89.2	85.0	87.9	81.0	84.2
	-7.0	-7.6	87.0	91.4	86.5	91.7	86.4	89.2	85.0	87.8	81.0	84.2
	-5.0	-5.6	87.0	91.3	86.5	91.6	86.4	89.1	85.0	87.7	81.0	84.1
	-3.0	-3.7	87.0	89.3	86.5	89.6	86.4	87.1	85.0	85.7	81.0	82.2
	0.0	-0.7	87.0	81.1	86.5	80.8	86.4	79.4	85.0	76.8	81.0	75.0
	3.0	2.2	109.0	74.3	105.0	71.7	100.0	68.3	93.6	66.2	87.2	63.2
	5.0	4.1	109.0	69.6	105.0	67.3	100.0	63.5	93.6	61.5	87.2	58.7
7.0	6.0	109.0	67.7	105.0	65.3	100.0	61.6	93.6	59.6	87.2	57.0	
9.0	7.9	109.0	66.7	105.0	64.5	100.0	60.6	93.6	58.7	87.2	56.1	
11.0	9.8	109.0	66.0	105.0	63.4	100.0	60.1	93.6	58.2	87.2	55.5	
13.0	11.8	109.0	65.4	105.0	63.1	100.0	59.7	93.6	57.8	87.2	55.2	

Note

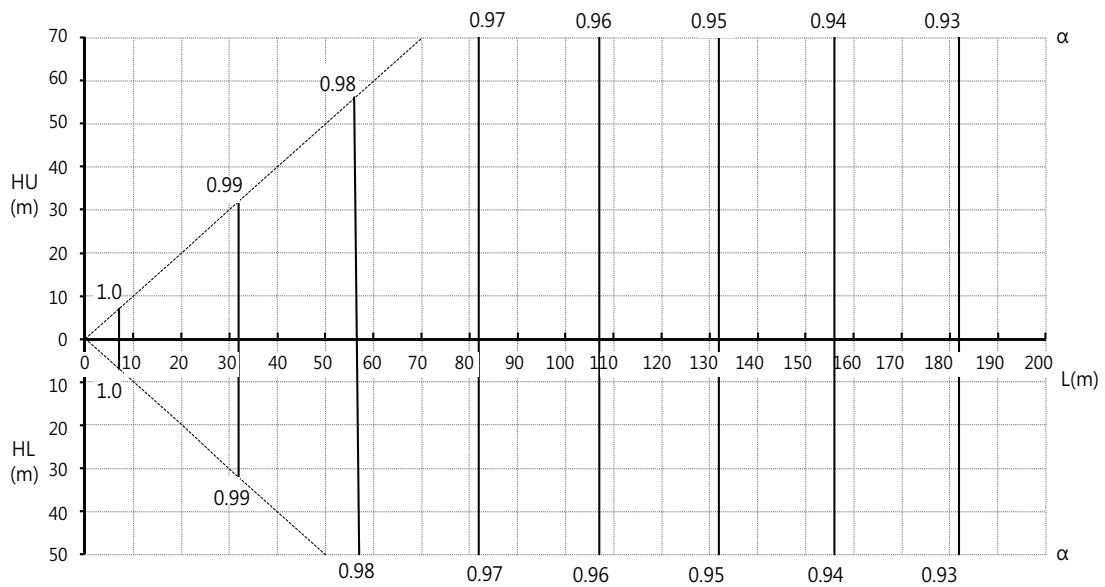
1. TC : Total capacity(kW), FC : Fuel consumption (kW)
2. Capacity tables show the average value of conditions which may occur.
3. Fuel consumption is the total (high) calorific value.

9. Capacity Correction Factor

■ Rate of change in Cooling capacity



■ Rate of change in Heating capacity



Symbols

HU : Level difference between indoor and outdoor units where outdoor unit in upper position (m)

HL : Level difference between indoor and outdoor units where outdoor unit in lower position (m)

L : Equivalent pipe length (m)

α : Capacity correction factor

10. Electric Characteristics

■ Wiring of Main Power Supply and Equipment Capacity

1. Use a separate power supply for the Outdoor Unit and Indoor Unit.
2. Bear in mind ambient conditions (ambient temperature, direct sunlight, rain liquid, etc.) when proceeding with the wiring and connections
3. The wire size is the minimum value for metal conduit wiring. The power cord size should be 1 rank thicker taking into account the line voltage drops. Make sure the power-supply voltage does not drop more than 10%.
4. Specific wiring requirements should adhere to the wiring regulations of the region.
5. Power supply cords of parts of appliances for outdoor use should not be lighter than polychloroprene sheathed flexible cord (design 60245 IEC57).
6. Don't install an individual switch or electrical outlet to disconnect each of indoor unit separately from the power supply.

WARNING

- Follow ordinance of local regulation for technical standard related to electrical equipment, wiring regulations and guidance of each electric power company.
- Make sure to use specified wires for connections so that no external force is imparted to terminal connections. If connections are not fixed firmly, it may cause heating or fire.
- Make sure to use the appropriate type of overcurrent protection switch. Note that generated overcurrent may include some amount of direct current.
- All Installation site must require attachment of an earth leakage breaker. If no earth leakage breaker is installed, it may cause an electric shock.

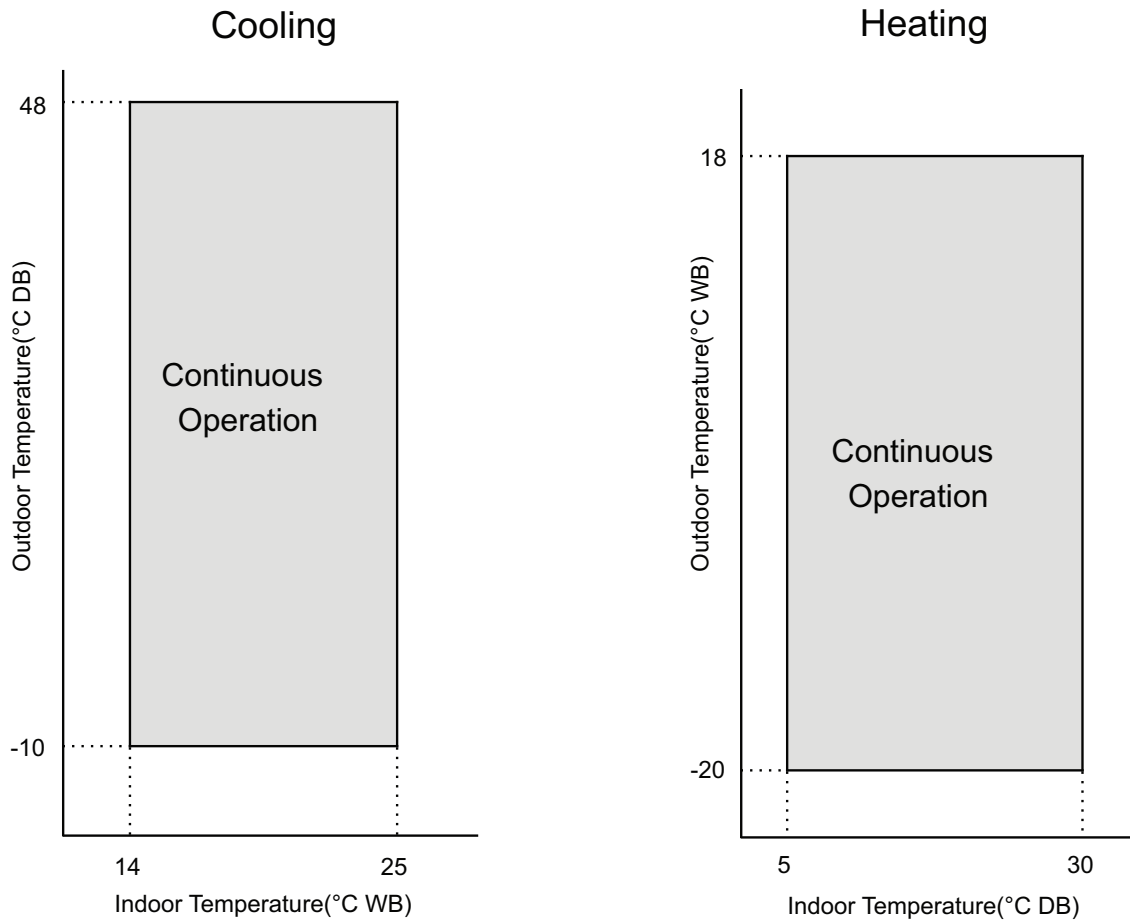
CAUTION

- Do not use anything other than breaker and fuse with correct capacity. Using fuse and wire or copper wire with too large capacity may cause a malfunction of unit or fire.

Model	Unit			Power Supply		Engine	OFM	
	Hz	Volts	Voltage-range	MCA	MFA	MSC	kW	FLA
16 HP 20 HP 25 HP 28 HP 30 HP 32 HP	50/60	220	Min. : 198 Max. : 242	18.1	30	40	1.50 x 2	6.8 x 2

<p>Note</p> <ol style="list-style-type: none"> 1. Voltage supplied to the unit terminals should be within the minimum and maximum range. 2. Maximum allowable voltage unbalance between phase is 2%. 3. MSC means the Max. current during the starting of compressor. 4. MSC and RLA are measured as the compressor only test condition. 5. OFM and IFM are measured as the air conditioner unit test condition. 6. Select the wire size based on the MCA. 7. MFA is used to select the circuit breaker and ground fault circuit interrupter, and all installation site must require attachment of an earth leakage breaker. [circuit breaker type is ELCB(Earth Leakage Circuit Breaker)]. 	<p>Symbols</p> <ul style="list-style-type: none"> MCA : Minimum Circuit Amperes (A) MFA : Maximum Fuse Amperes (A) MSC : Maximum Starting Current (A) RLA : Rated Load Amperes (A) OFM : Outdoor Fan Motor kW : Fan Motor rated output (kW) FLA : Full Load Amperes (A)
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11. Operation Limits



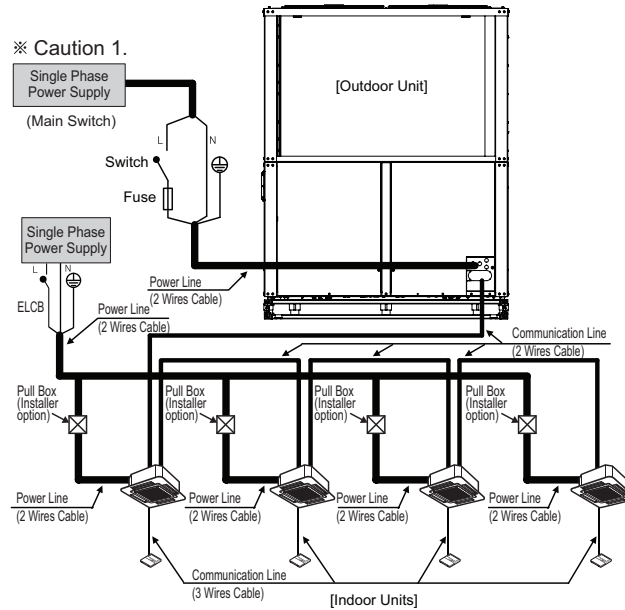
Note

- These figures assume the following operating conditions:
 - Equivalent interconnected pipe length is standard condition.
 - Difference of Elevation (Outdoor ~ Indoor Unit) is Zero.

12. Field Wiring

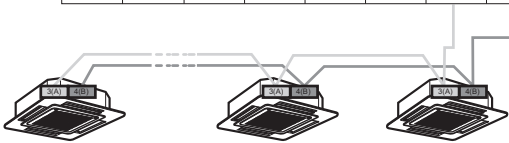
Example of Transmission Cable

Single Outdoor Unit



Between outdoor and indoor units

Outdoor unit terminal block									
12 V	GND	Dry2	Dry1	CEN		Indoor unit		Outdoor unit	
-	-	-	-	A	B	A	B	A	B



Between the Slave ODU To Master ODU

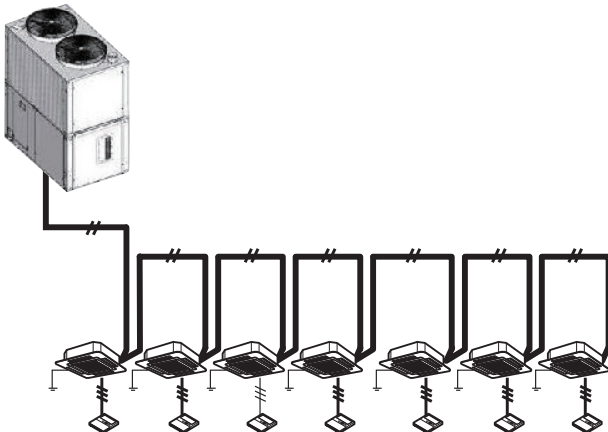
CN06-COMM-TB									
12 V	GND	Dry2	Dry1	CEN		IDU		ODU	
-	-	-	-	A	B	A	B	A	B

CN06-COMM-TB									
12 V	GND	Dry2	Dry1	CEN		IDU		ODU	
-	-	-	-	A	B	A	B	A	B

- Caution 1. It may be different according to specification of a voltage.

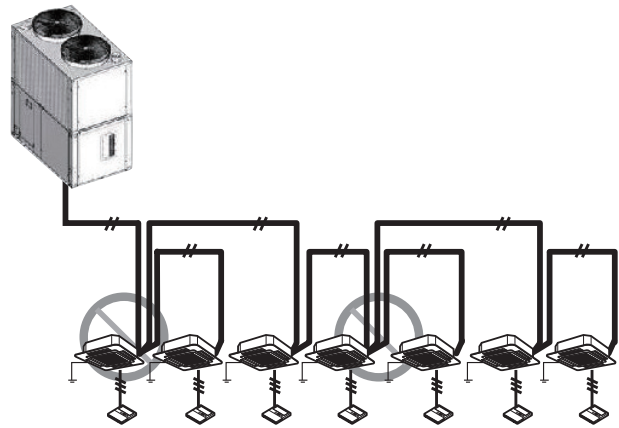
[BUS TYPE]

Connection of communication cable must be installed like below figure between indoor unit to outdoor unit.



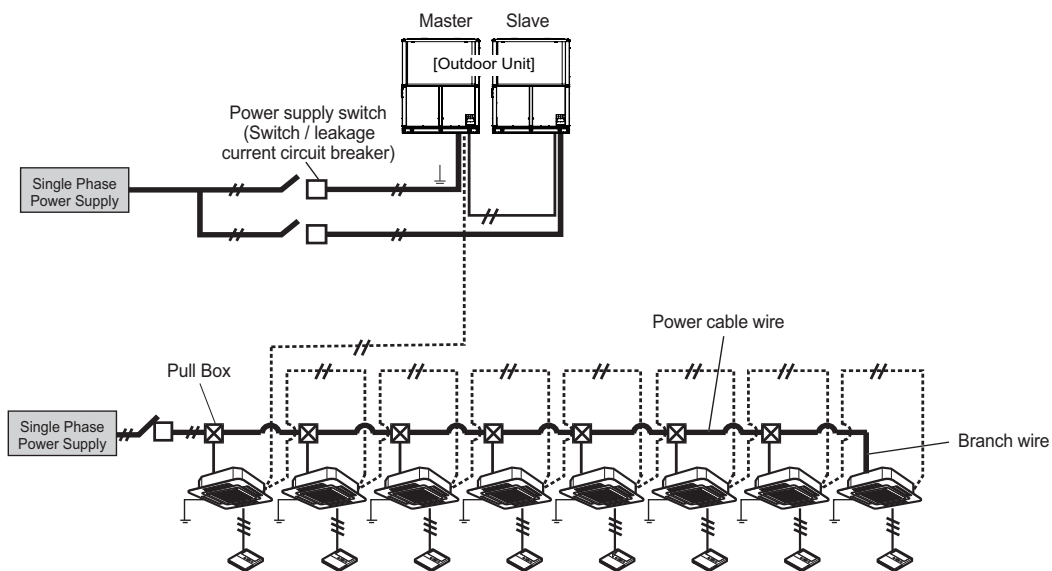
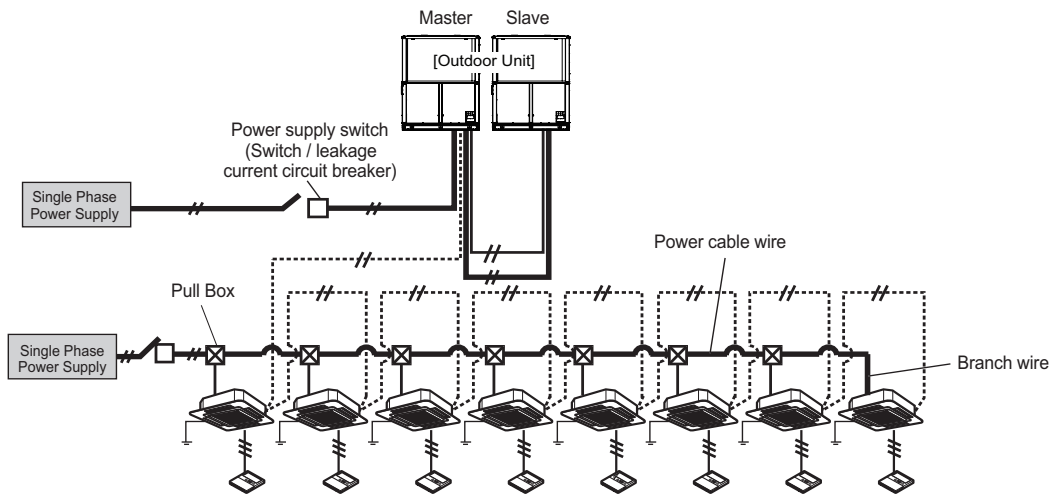
[STAR TYPE]

Abnormal operation can be caused by communication defect, when connection of communication cable is installed like below figure.



12. Field Wiring

◆ Series Outdoor Unit



- // - : Transmission cable (3-strand): cable remote control
 - # - : Single-phase power cable
 - // - : Transmission cable (2-strand shield cable): Between ODU
 - // - : Transmission cable (2-strand shield cable): Between ODU to IDU
- * Ground Wiring Diagram is not included.

⚠ WARNING

- Install the earth leakage circuit breaker.
- For the indoor unit grounding, the earth wire is needed to prevent the electric shock incase of a short circuit, the communication problems due to noise, and the motor leakagecurrent. (It is not connected to piping.)
- Only one point grounding in the outdoor unit should be done for the transmission cablegrounding.
- Do not install any 'individual switch or electrical outlet' to disconnect each of indoor unitseparately from the power supply.

Installation of Outdoor Units

- 1. Alternative Refrigerant R410A**
- 2. Select the Best Location**
- 3. Installation Space**
- 4. Lifting Method**
- 5. Installation**
- 6. Piping Installation**
- 7. Refrigerant piping system**
- 8. Electrical Wiring**

1. Alternative Refrigerant R410A

- The refrigerant R410A has the property of higher operating pressure in comparison with R22. Therefore, all materials have the characteristics of higher resisting pressure than R22 ones and this characteristic should be also considered during the installation.
R410A is an azeotrope of R32 and R125 mixed at 50:50, so the ozone depletion potential (ODP) of R410A is 0.
-

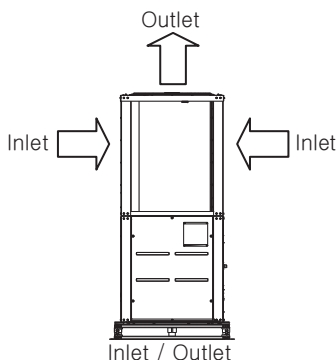
CAUTION

- The wall thickness of the piping should comply with the relevant local and national regulations for the designed pressure 3.8MPa
 - Since R410A is a mixed refrigerant, the required additional refrigerant must be charged in its liquid state. If the refrigerant is charged in its gaseous state, its composition changes and the system will not work properly.
 - Do not place the refrigerant container under the direct rays of the sun to prevent it from exploding.
 - For high-pressure refrigerant, any unapproved pipe must not be used.
 - Do not heat pipes more than necessary to prevent them from softening.
 - Be careful not to install wrongly to minimize economic loss because it is expensive in comparison with R22.
-

2. Select the Best Location

Select space for installing outdoor unit, which will meet the following conditions, and make sure to acquire the consent of the user.

- A place where exhaust gas does not flow back into a building or does not remain. Beware that exhaust gas and air flowing out of the outdoor unit fan may cause harm to the animals and plants.
- No direct thermal radiation from other heat sources
- No possibility of annoying neighbors by noise from unit
- No exposition to strong wind
- With strength which bears weight of unit
- Note that drain flows out of unit when heating
- With space for air passage and service work shown next
- Because of the possibility of fire, do not install unit to the space where generation, inflow, stagnation, and leakage of combustible gas is expected.
- Avoid unit installation in a place where acidic solution and spray (sulfur) are often used.
- The noise from the unit may cause disturb the other devices. Electrical wiring should be done at least more than 5 m from computer, radio, TV, phone, other cables, antenna, and so on.
- Do not use unit under any special environment where oil, steam and sulfuric gas exist.
- It is recommended to fence round the outdoor unit in order to prevent any person or animal from accessing the outdoor unit. If necessary, install a warning signs indicating a danger.
- In order to operate the unit more stable below the outdoor temperature 10 °C, avoid a place exposed to snow or rain directly. Otherwise, install a duct for air suction/discharge.
- When the outdoor temperature is below -5 °C, installing the outdoor unit for air conditioning is restricted.
- If installation site is area of heavy snowfall, then the following directions should be observed.
 - Make the foundation height higher than the most extreme snowfall amount standard.
 - Fit a snow protection hood.
- Do not install the inlet/outlet of the outdoor unit facing a seasonal wind.



- Select installation location considering following conditions to avoid bad condition when additionally performing defrost operation.
 1. Install the outdoor unit at a place well ventilated and having a lot of sunshine in case of installing the product at a place with a high humidity in winter (near beach, coast, lake, etc).
(Ex) Rooftop where sunshine always shines.
 2. Performance of heating will be reduced and pre-heat time of the indoor unit may be lengthened in case of installing the outdoor unit in winter at following location:
 - 1) Shade position with a narrow space
 - 2) Location with much moisture in neighboring floor.
 - 3) Location with much humidity around.
 - 4) Location where liquid gathers since the floor is not even.

3. Installation Space

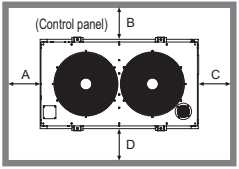
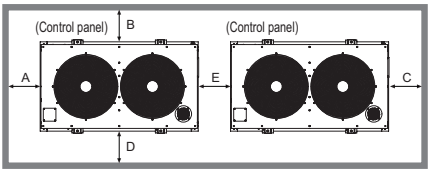
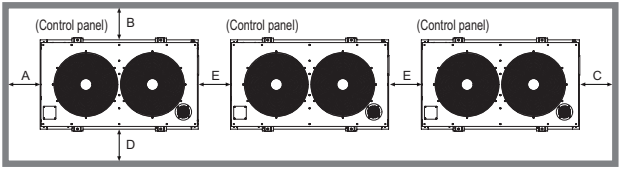
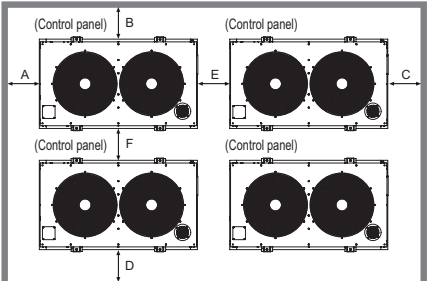
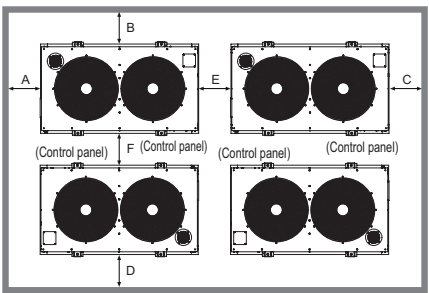
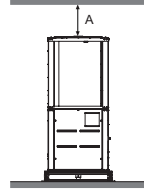
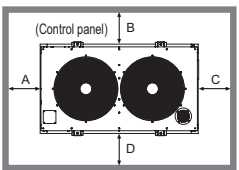
3.1 Individual Installation

During the installation of the unit, consider service, inlet, and outlet and acquire the minimum space as shown in the figures below.

3. Installation Space

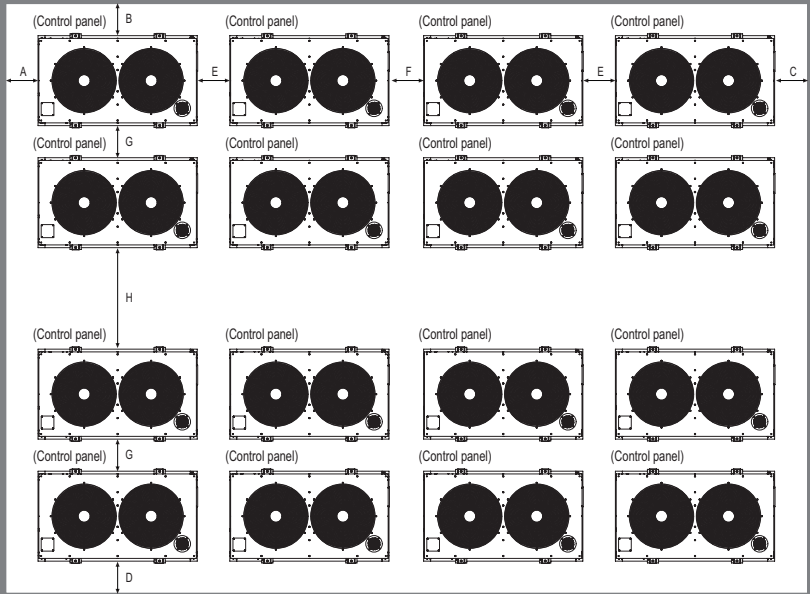
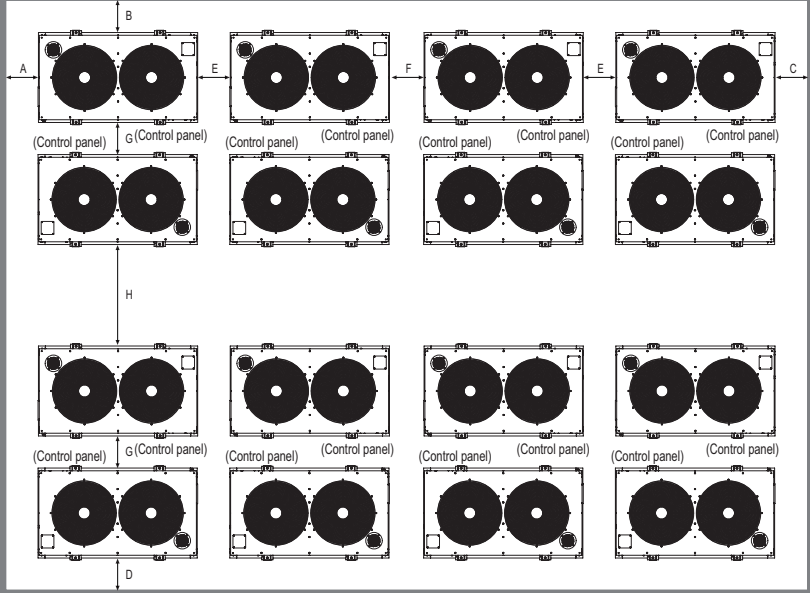
- It is recommended to install the discharge air guide for the collective installation (2X2 or more).
- Insufficient space for installation may result in improper heating and cooling. Reducing space requires a review of air flow (CFD analysis, etc.).

(Unit: mm)

Classification	Installation space	Securing the installation space
For single installation		$A \geq 350$ $B \geq 600$ $C \geq 350$ $D \geq 1,000$
For combined installation		$A \geq 350$ $B \geq 600$ $C \geq 350$ $D \geq 1,000$ $E \geq 350$
For multiple installation		$A \geq 350$ $B \geq 600$ $C \geq 350$ $D \geq 1,000$ $E \geq 350$
For collective installation (2X2)		$A \geq 350$ $B \geq 600$ $C \geq 350$ $D \geq 1,000$ $E \geq 350$ $F \geq 1,000$
		$A \geq 350$ $B \geq 1,000$ $C \geq 350$ $D \geq 1,000$ $E \geq 350$ $F \geq 600$
Ceiling height limit		$A \geq 2,000$
Separation distance from combustible material		$A \geq 100$ $B \geq 150$ $C \geq 100$ $D \geq 100$

3. Installation Space

(Unit: mm)

Classification	Installation space	Securing the installation space
<p>For collective installation (4X4 or more)</p>		<p> $A \geq 350$ $B \geq 600$ $C \geq 350$ $D \geq 1,000$ $E \geq 500(*350)$ $F \geq 1,000(*350)$ $G \geq 1,000$ $H \geq 2,500(*1,000)$ </p>
<p>For collective installation (4X4 or more)</p>		<p> $A \geq 350$ $B \geq 1,000$ $C \geq 350$ $D \geq 1,000$ $E \geq 500(*350)$ $F \geq 1,000(*350)$ $G \geq 600$ $H \geq 2,500(*1,000)$ </p>

(*): Minimum space for airflow review

3. Installation Space

■ Seasonal wind and cautions in winter

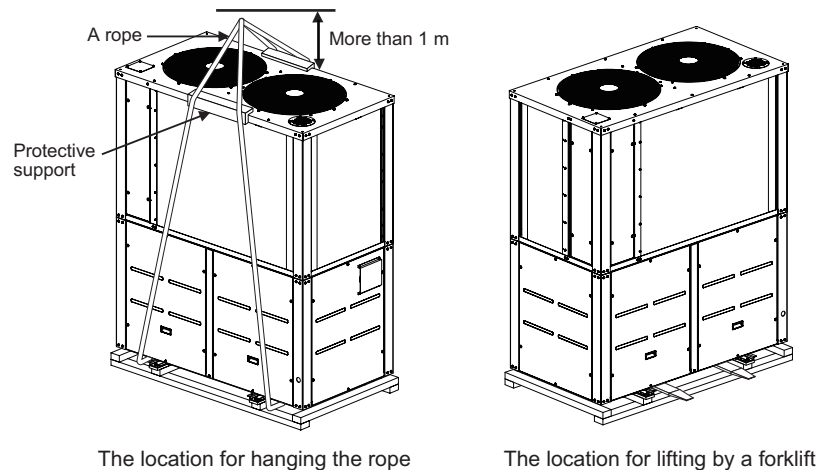
- Sufficient measures are required in a snow area or severe cold area in winter so that product can be operated well.
- Get ready for seasonal wind or snow in winter even in other areas.
- Install a suction and discharge duct not to let in snow or rain.
- Install the outdoor unit not to come in contact with snow directly. If snow piles up and freezes on the air suction hole, the system may malfunction. If it is installed at snowy area, attach the hood to the system.
- Install the outdoor unit at the higher installation console by 50cm than the average snowfall (annual average snowfall) if it is installed at the area with much snowfall.
- Where snow accumulated on the upper part of the Outdoor Unit by more than 10cm, always remove snow for operation.

CAUTION

1. The height of H frame must be more than 2 times the snowfall and its width shall not exceed the width of the product. (If width of the frame is wider than that of the product, snow may accumulate)
 2. Don't install the suction hole and discharge hole of the Outdoor Unit facing the seasonal wind.
-

4. Lifting Method

- Lift the unit by using a crane rope to the carrying hole in the bottom base of the outdoor unit.
- Avoid scratches or distortion on the external panel with protective support when suspending.
- There is a risk of dropping when the unit is hoisted by a forklift. Do not hoist the unit forcibly when it is off balance.
- Make sure to use a rope long enough so that the distance between the top of the outdoor unit and the hook can be more than 1 m.
- Make sure to use the proper ropes strong enough to support the weight of the outdoor unit.
- The use of improper ropes may result in dropping.
- Always transport the outdoor unit upright (vertically). It is dangerous to transport the outdoor unit flat (horizontally) and it may also cause a malfunction.
- When carrying, place the forks of the forklift into the carrying hole for forklift.



CAUTION

Pay special attention when carrying the unit.

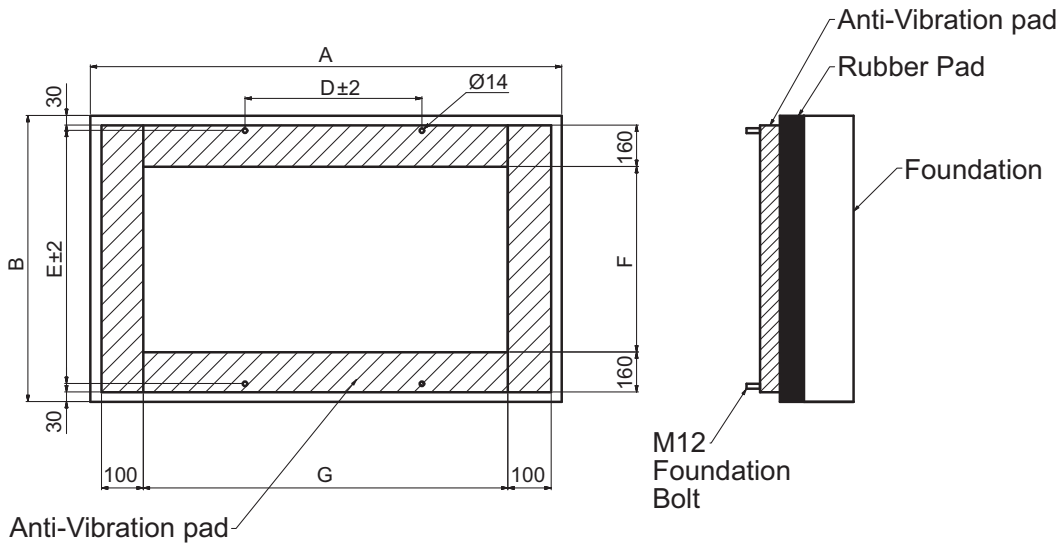
- The PP bands (PET bands) are used for packing. It is dangerous to use the PP bands to transport the unit.
- Do not touch the heat exchanger fins with your bare hands. You can get a cut in your hands.
- Tear apart and throw away plastic packaging bags so that children will not play with them. Children playing with plastic bags face the danger of suffocation.
- When carrying the outdoor unit, be sure to support it at four points. Carrying it with 3-point support may make the outdoor unit unstable and fall.
- Hoist the unit making sure it is being lifted at its center of gravity.

5. Installation

5.1 Foundation for Installation

⚠ CAUTION

- Make sure to level a concrete foundation and to have good drainage.
- When installing the outdoor unit, always use a dedicated anchor bolts.
- Make sure to use anti-vibration materials (cushion pad) so that the bottom surface of the outdoor unit can get the evenly distributed weight.
- When installing the outdoor unit at the rooftop of a building, use an anti-vibration stand.
- For ground-level installation, install an anti-vibration stand if the area is sensitive to vibration or noise.
- Insert the rubber pad of over t10 between the concrete foundation and the anti-vibration pad.
- A whole pad is used for the concrete foundation, and if a line pad is used, there may be a problem with the load.
- If it is installed in a place where it snows a lot, make sure that the frame and foundation are higher than the maximum amount of snowfall.



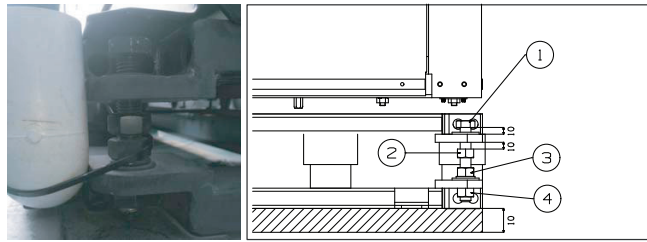
[Unit : mm]

Chassis	Installation Type		A	B	C	D	E	F	G
UPC	Ground installation	Anti-vibration stand X	More than 1,900	More than 1,300	More than 200	966	1,030	770	1,650
		Anti-Vibration stand O	More than 2,000	More than 1,600	More than 200	1,590	1,134	874	1,610
	Rooftop installation	Anti-Vibration stand O	More than 2,000	More than 1,600	More than 200	1,590	1,134	874	1,610

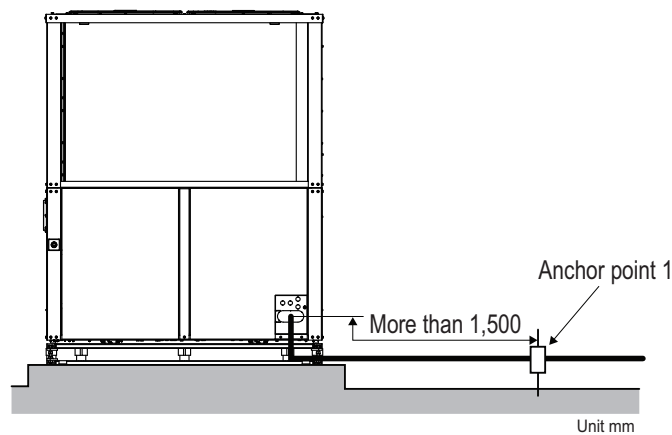
5. Installation

5.2 Precautions to take when installing the anti-vibration stand

When installing the anti-vibration stand, inspect the following:



- The nuts #3 and #4 are fixed onto the side of the anti-vibration stand.
- There is an appropriate distance (10 mm) from the bolt #1 and nut #2 to the ODU, as seen in the picture on the left.
- The bolt should not be touching a concrete floor.
- Non-compliance with the above may cause the outdoor unit to vibrate.



- When using an anti-vibration stand, keep the outdoor unit at least more than 1,500 mm from the first anchor point of the refrigerant pipe.

WARNING

- Install where it can sufficiently support the weight of the outdoor unit. If the support strength is not enough, the outdoor unit may drop and hurt people.
- Install where the outdoor unit may not fall in strong wind or earthquake. If there is a fault in the supporting conditions, the outdoor unit may fall and hurt people.
- Please take extra cautions on the supporting strength of the ground, water outlet treatment (treatment of the water flowing out of the outdoor unit in operation), and the passages of the pipe and wiring, when making the ground support.

CAUTION

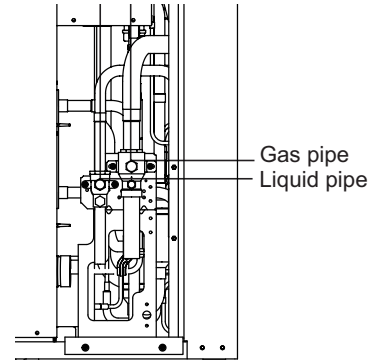
- Be sure to remove the pallet (wooden support) of the bottom of the outdoor unit before using an anchor bolt. It can make the foundation of the outdoor unit unstable, and may cause freezing of the heat exchanger resulting in abnormal operations.
- Be sure to remove the pallet (wooden support) of the bottom of the outdoor unit before welding. Not removing the pallet causes hazard of fire during welding.

6. Piping Installation

6.1 Precautions on Pipe connection / Valve operation

Pipe connection is done by connecting from the end of the pipe to the branching pipes, and the refrigerant pipe coming out of the outdoor unit is divided at the end to connect to each indoor unit. Flare connection for the indoor unit, and welding connection for the outdoor pipe and the branching parts.

- Use hexagonal wrench to open/close the valve.



! WARNING

- Always careful not to leak the refrigerant during welding.
- The refrigerant generates poisonous gas harmful to human body if combusted.
- Do not perform welding in a closed space.
- Be sure to close the cap of the service port to prevent gas leakage after the work.

! CAUTION

Please block the pipe knock outs of the front and side panels after installing the pipes.
(Animals or foreign objects may be brought in to damage the cables.)

6. Piping Installation

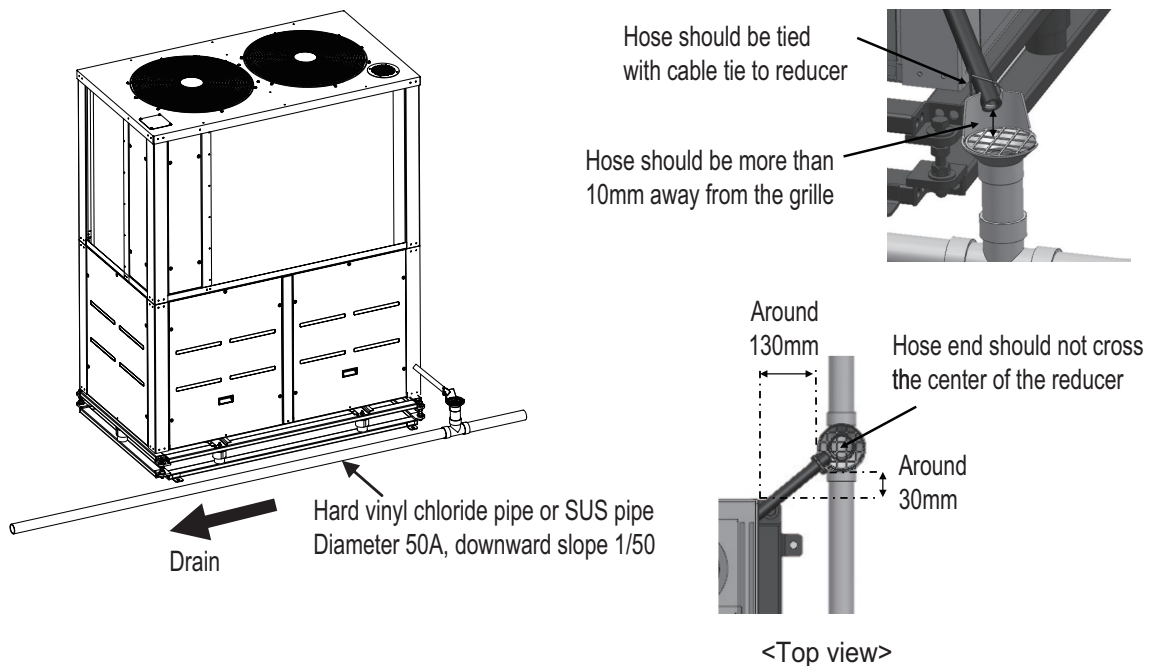
6.2 Outdoor Unit Drainage Piping

⚠ WARNING

- When connecting the rubber drain hose of the outdoor unit to the pipe for drainage, make sure to lay pipes exposed (released) to the air. If the exhaust gas flows backward inside a building, it causes a carbon dioxide poisoning.
- Do not use the indoor unit drain pipes mixed with the outdoor unit drain pipes.
If the exhaust gas flows backward inside a building through the indoor unit drain pipes, it causes a carbon dioxide poisoning.

⚠ CAUTION

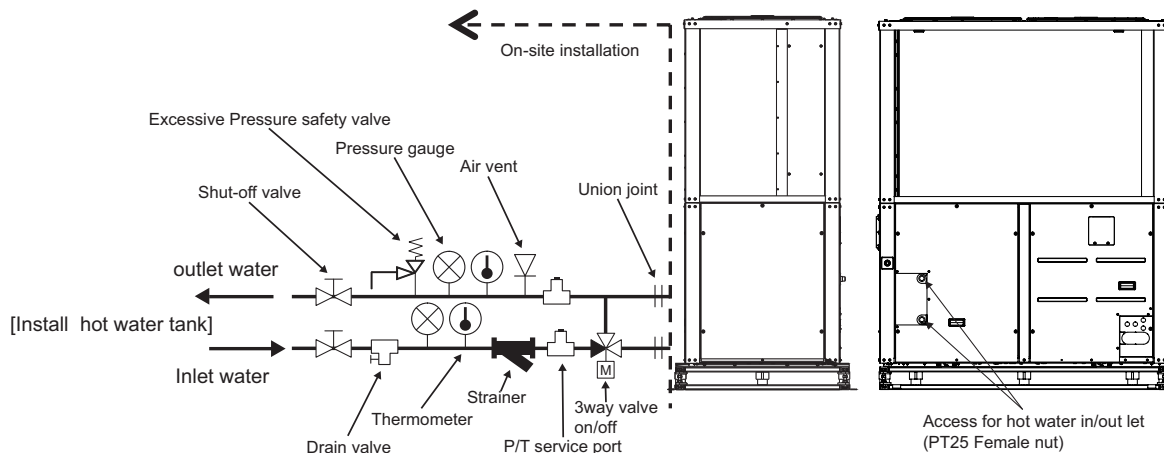
- Extend the drain pipes to a gutter (water outlet) for drainage. A direct drainage to the surface of waterproof sheets or concrete causes contamination or damage.
- Take preventive measures to protect the drain pipes from freezing in winter.
- The drain piping work should be done with a falling gradient of more than $1/50$ for better drainage. Do not add any shaft tubes to the drain pipes. Do not add any traps to the drain pipes. If the multiple indoor units share the same drain pipe, keep the each rubber hose open to the air. Otherwise, the exhaust gas from the outdoor unit in operation could flow backward into the indoor unit (not in operation) and cause an engine malfunction.
- Use the corrosion-free hardened Polyvinyl Chloride (PVC) or stainless tubes for the drain piping.



6. Piping Installation

6.3 Hot Water Piping

Install the water pipes of the outdoor unit as pictured below.



- Install the closed loop water pipe system.
- The water pipe should be the same size of the connection on the product or more.
- For the water pipe, use anti-corrosion steel pipe or copper pipe.
- To replace the connected device easily, install the union joint.
- If the water pipe is installed for the use with two or more GHP units, a 3 Way On/Off valve must be installed on all GHP units.
 - 3 Way On/Off valve must be controlled by the On/Off relay of GHP.
 - If the water pipe is installed on only one GHP, there is no need to install a 3 Way On/Off valve separately.
- Install the service port to clean the heat exchanger at each inlet and outlet of the water pipe.
- Always install a strainer at the inlet of the water pipe. Do not enter city water into the water pipe directly during unit operation. If the strainer is not installed, component malfunction of unit may occur.
 - For the strainer, use one with 50 mesh or above with measurement diameter of 0.4mm or less. (Exclude other net)
 - Check the strainer direction and assemble on the inlet hole (Refer to picture)
 - Wrap the Teflon tape on the screw thread of the water pipe for more than 15 times for assembly.
 - Always install the strainer on the horizontal pipe. (When dirt, trash, rusted pieces get into the water pipe system, it can cause problems to the product by corroding the metallic material.)
 - For the strainer, install the service port facing downward. (Within left/right 45 degrees)
 - For the strainer, check if there is any leakage on the connecting part.
 - Clean the strainer. (More than once per year)
- Install a thermometer and pressure gauge at the inlet and outlet of the water pipe.
- Install the drain valve that can be used for draining the water inside when replacing the part or providing service.
- Install the shut-off valve to block the water by closing the valve when replacing the part or cleaning.
- Install the insulation material in the water pipe inlet/outlet to prevent water drop, freeze and to save energy. (Use the above 20mm thickness PE insulation material)
- Install a pressure relief valve that meets the design water pressure to prevent unit or water pipe damage at the pressure increase inside the water pipe system.
- Tightly connect the socket to the water pipe refer to below table for recommended specification. (Too much torque may cause the damage of the facility.)
- Cover the water access panel gap with silicone or rubber packing to prevent water and dust entering to GHP inside.
- Operating temperature : 3~75 °C
- Operating Pressure : ~700kPa

6. Piping Installation

Pipe thickness		Shear stress		Tensile stress		Bending moment		Torque	
mm	inch	(kN)	(kgf)	(kN)	(kgf)	(N·m)	(kgf·m)	(N·m)	(kgf·m)
12.7	1/2	3.5	350	2.5	250	20	23.0	5	3.5
19.05	3/4	12	1,200	2.5	250	20	2.0	115	11.5
25.4	1	11.2	1,120	4	400	45	4.5	155	15.5
31.8	1-1/4	14.5	1,450	6.5	650	87.5	8.75	265	26.5
38.1	1-1/2	16.5	1.7	9.5	0.95	155	16	350	35.5
50.8	2	21.5	2.2	13.5	1.4	255	26	600	61

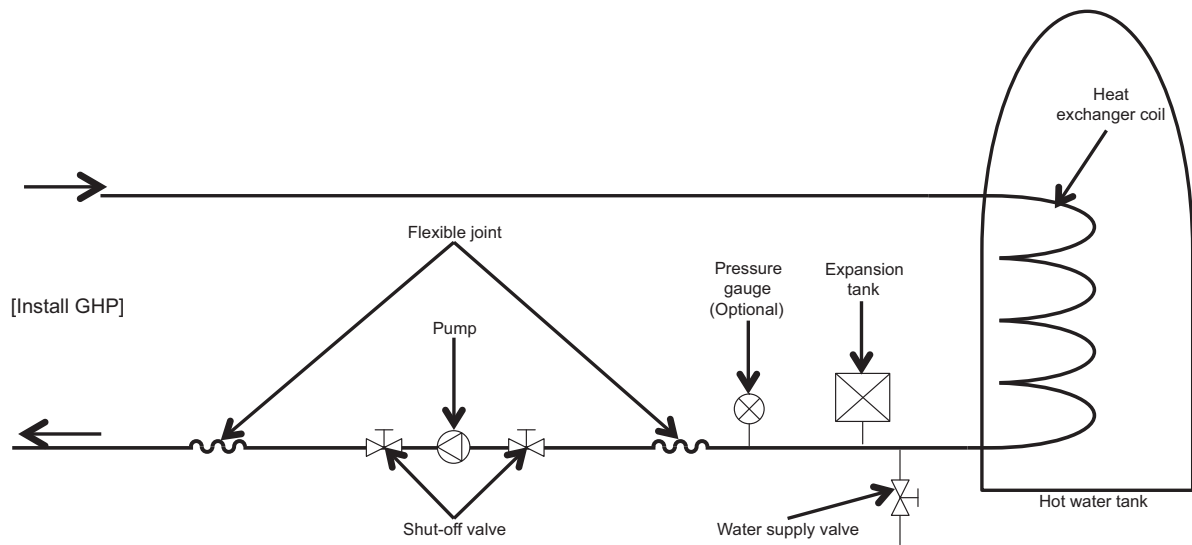
Note

- Must use antifreeze to prevent freezing in the water piping and unit.
- Select parts whose pressure specifications are greater the operating water pressure(0.7MPa) for protection against excessive pressure.
- Install the air vent at the top of the water pipe. If the air vent is not installed at the top of the water pipe, there would be a lot of bubble in the water pipe. So a plate heat exchanger burst may happen because of the reduction of water flow rate caused by a lot of bubble in the water pipe.

6. Piping Installation

6.4 Hot Water tank

Install the water tank as pictured below.



- Install the shut-off valve on both sides of the pump to clean and repair the pump.
- Install the service port to clean the heat exchanger at each inlet and outlet of the water pipe.
- Install the flexible joint to prevent noise and vibration transferred from the pump.
- Install the pressure gauge to monitor the water pressure from water tank. (Optional)
- Install the expansion tank to accommodate the water contracted or expanded from the temperature difference and to supply the water.
- Use the water tank with the heat exchange coil installed so that the heat can be exchanged sufficiently inside the tank.

CAUTION

Use the pump with sufficient capacity to assure loss of overall water pressure and to supply water to the unit.

6. Piping Installation

6.5 Fuel Gas Piping

Install the fuel gas pipes of the outdoor unit as pictured below.

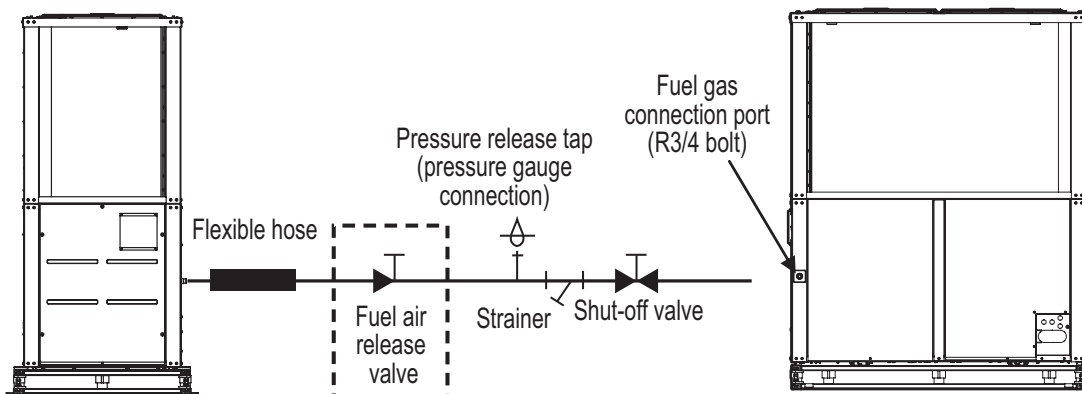


Figure 1.

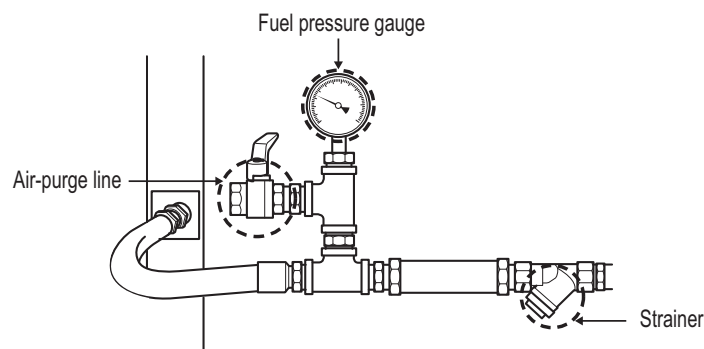


Figure 2.

⚠ WARNING

Only licensed installers and service technicians should perform the fuel gas piping. Improper installation causes fire and explosion.

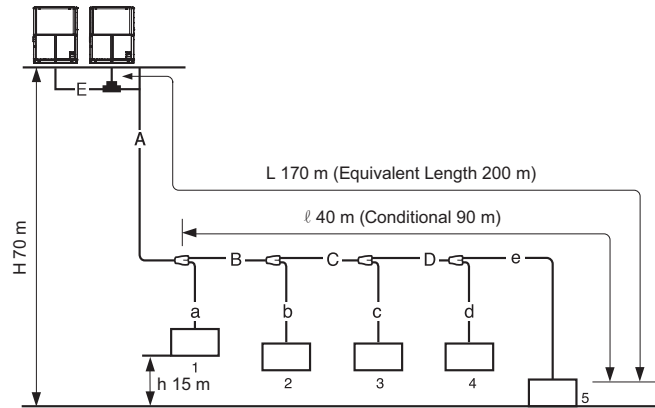
⚠ CAUTION

- The LPG regulator of 2.8 kPa outlet pressure setting and 7 kg/h or higher specification should be mounted at the zero governor inlet end. (Maximum load condition after aging of the engine)
 - However, when the fuel pressure is supplied at the outlet pressure of 2.8 kPa from the LPG tank, a separate regulator is not installed at the inlet end of the zero governor.
- Install a fuel pressure gauge at the inlet end of the zero governor.
 - Install a fuel pressure gauge within 0 to 10 kpa range.
 - There should be no fuel pressure hunting visually while the unit is stopped or running. Failure to obtain fuel-specific pressures may result in engine startup and operation problems. (LNG : 2.0 ~ 2.5 kPa, LPG : 2.3 ~ 3.3 kPa)
- A fuel gas port is fastened with an appropriate torque and shipped in a way that ensures it will remain leak free. When connecting the gas piping, secure the connecting port in order not to have excessive torque. Applying an excessive force when fastening can damage to the gasket and cause a gas leak.
- Check for gas leaks from the fuel gas pipes after completing the installation. Gas leaks cause hazards such as fire.
- Use a flexible hose when connecting to the outdoor unit. There is a risk of gas leaks from a vibration of steel pipes.
- Immediately before connecting the gas piping to the outdoor unit gas connection port, be sure to perform air purging with reference to Figures 1 and 2 at the end.
 - Fuel pressure gauges, air purge valves and strainers must be fitted when performing air purging.
 - Air purging is the process of releasing the welding sludge and air remaining inside the pipe.
 - If air purging is not performed, the gas supply system may be blocked or the engine may not start.
- There may be dew formation due to dew condensation of the fuel gas connector before installation of the fuel gas pipe, but as there is nothing wrong with the product, remove the moisture with dry cloth before installation.

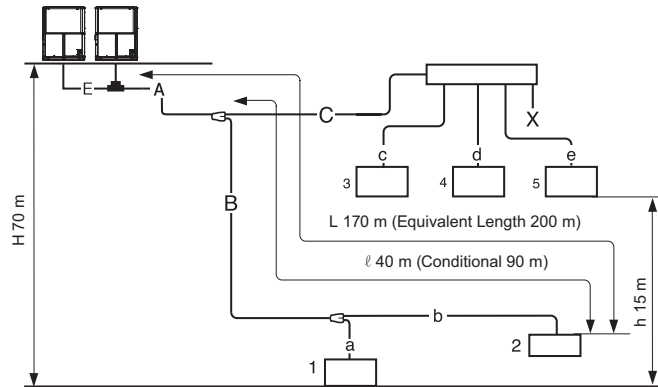
7. Refrigerant piping system

7.1 Pipe Connection Method between outdoor unit / indoor unit

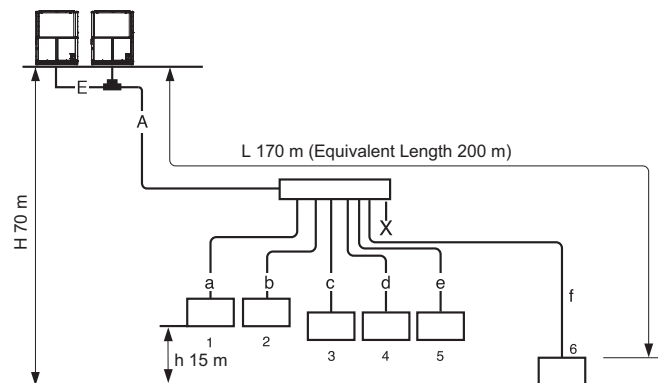
Y branch method



Combination of Y branch / header method



Header method



Item	Symbol	Contents	The actual length (m)
Allow the pipe length	L	Allow the pipe length	$7 \leq L \leq 170$ (Equivalent length 200)
	ℓ	The maximum of pipe length after first branch	≤ 40 ($\leq 90^*$)
	a, b, c, d, e, f	Length of pipe from each branch	≤ 30
	Total pipe length from ODU to IDU		≤ 640
Permitted height difference	H	Height between the ODU, IDU	Outdoor unit installation (top) ≤ 70 Outdoor unit installation (bottom) ≤ 50
		h	Between the indoor unit ≤ 15

* : To apply Conditional Application

7. Refrigerant piping system

◆ Refrigerant pipe diameter from outdoor unit to first branch. (A) / outdoor unit (E)

Outdoor unit Total capacity [kW (btu/h)]	Standard Pipe Diameter		When pipe length is 90m or more from ODU to the farthest IDU	
	Gas pipe [mm(inch)]	Liquid pipe [mm(inch)]	Gas pipe [mm(inch)]	Liquid pipe [mm(inch)]
45 (153,600)	Ø 28.58(1-1/8")	Ø 15.88(5/8")	Ø 28.58(1-1/8")	Ø 15.88(5/8")
56 (191,100)	Ø 28.58(1-1/8")	Ø 15.88(5/8")	Ø 31.8(1-1/4")	Ø 19.05(3/4")
71 (242,300)	Ø 31.8(1-1/4")	Ø 15.88(5/8")	Ø 34.9(1-3/8")	Ø 19.05(3/4")
82 (279,800)	Ø 34.9(1-3/8")	Ø 19.05(3/4")	Unnecessary expand	Ø 22.2(7/8")
85 (290,100)	Ø 34.9(1-3/8")	Ø 19.05(3/4")	Unnecessary expand	Ø 22.2(7/8")
90 (307,100)	Ø 34.9(1-3/8")	Ø 19.05(3/4")	Ø 38.1(1-1/2")	Ø 22.2(7/8")
101 (344,600)	Ø 34.9(1-3/8")	Ø 19.05(3/4")	Ø 38.1(1-1/2")	Ø 22.2(7/8")
112 (382,100)	Ø 41.3(1-5/8")	Ø 19.05(3/4")	Unnecessary expand	Ø 22.2(7/8")
142 (484,600)	Ø 41.3(1-5/8")	Ø 19.05(3/4")	Unnecessary expand	Ø 22.2(7/8")
164 (559,700)	Ø 41.3(1-5/8")	Ø 19.05(3/4")	Unnecessary expand	Ø 22.2(7/8")
170 (573,200)	Ø 41.3(1-5/8")	Ø 19.05(3/4")	Unnecessary expand	Ø 22.2(7/8")
180 (614,300)	Ø 44.5(1-3/4")	Ø 22.2(7/8")	Unnecessary expand	Ø 25.4(1")

◆ Diameter of Refrigerant Piping (B, C and D) from Branch to Branch

Gross Capacity (kW) of Indoor Unit Connected behind the Branch	Gas pipe [mm(inch)]	Liquid pipe [mm(inch)]
≤ 5.6 (19,100)	Ø 12.7(1/2")	Ø 6.35(1/4")
< 16.0 (54,600)	Ø 15.88(5/8")	Ø 9.52(3/8")
< 22.4 (76,400)	Ø 19.05(3/4")	Ø 9.52(3/8")
< 33.6 (114,700)	Ø 22.2(7/8")	Ø 9.52(3/8")
< 50.4 (172,000)	Ø 28.58(1-1/8")	Ø 12.7(1/2")
< 67.2 (229,300)	Ø 28.58(1-1/8")	Ø 15.88(5/8")
< 72.8 (248,400)	Ø 34.9(1-3/8")	Ø 15.88(5/8")
< 100.8 (344,000)	Ø 34.9(1-3/8")	Ø 19.05(3/4")
< 173.6 (592,500)	Ø 41.3(1-5/8")	Ø 19.05(3/4")
< 184.8 (630,700)	Ø 44.5(1-3/4")	Ø 22.2(7/8")
≤ 291.2 (993,600)	Ø 53.98(2-1/8")	Ø 22.2(7/8")

■ Conditional Application (only for Y Branch method)

If the below conditions are satisfied, limit of longest pipe length after 1st branch(l) could be extended by 40 m → 90 m.

1. Pipe diameter Size Up

- Pipe diameter(Liquid/Gas pipes) between 1st branch ↔ last branch(B,C,D) is increased by on step.
- If the pipe diameter of B,C,D is same as A, it is not necessary.
: Ø6.35 → Ø 9.52 → Ø 12.7 → Ø 15.88 → Ø 19.05 → Ø 22.2 → Ø 25.4*
: Ø 28.58 → Ø 31.8 *
: Ø 34.9 → Ø 38.1 *
(* : It is not necessary to size up.)
- If available on site, use this size. Otherwise it can't be increased.

2. Correction for calculating the total pipe length

When calculating total pipe length, pipe B,C,D length should be calculated twice.

$$: A+Bx2+Cx2+Dx2+a+b+c+d+e \leq 640 \text{ m}$$

3. Indoor unit pipe length

Length of pipe from each indoor unit to the closest branch (a,b,c,d,e,f) ≤ 30m

4. Difference in length between outdoor unit and the farthest or closest indoor unit

[Length of pipe from outdoor unit to the farthest indoor unit 5 (a,b,c,d,e,f)]

- [Length of pipe from outdoor unit to the closest indoor unit 1 (A+a)] ≤ 40m

7. Refrigerant piping system

5. After 1st branch directly connected indoor unit (Heat Pump System Only)

When installing pipe of indoor unit directly connected after 1st branch more than 40m and less than 90m,

- Pipe diameter is increased by one step. $\varnothing 6.35 \rightarrow \varnothing 9.52 \rightarrow \varnothing 12.7 \rightarrow \varnothing 15.88 \rightarrow \varnothing 19.05 \rightarrow \varnothing 22.2 \rightarrow \dots$
 - Pipe length should be calculated twice.
-

CAUTION

◆ Caution for Y Branch pipe

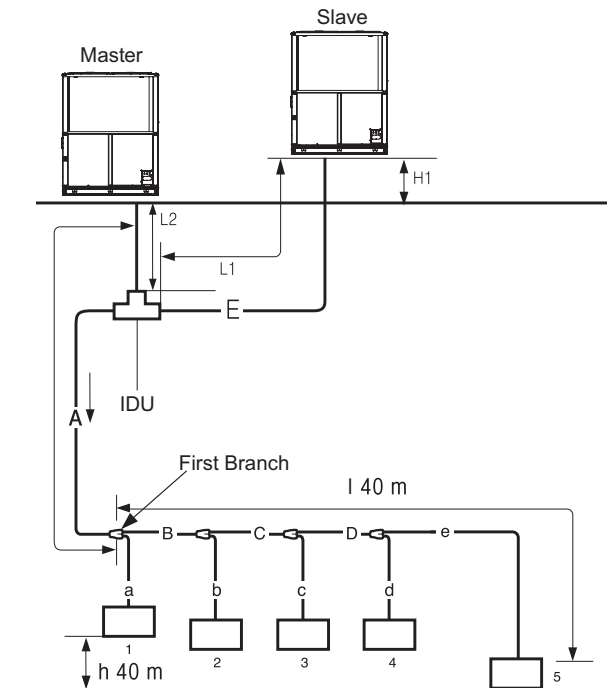
- In case of pipe diameter connected after first branch(B) is bigger than the main pipe diameter(A), B should be of the same size with A.
- Do not choose the main pipe diameter by downward indoor unit total capacity, but its outdoor/outside unit model name.
- Do not let the connection pipe from branch to branch exceed the main pipe diameter chosen by outdoor unit model name.

◆ Caution for Header Branch pipe

- It is recommended to install the difference between the length of the pipe after header branch(a~f) and the length of the pipe connected to indoor unit to be the minimum.
 - As the pipe length difference increases, there may be performance differences between indoor units.
 - Y branch and header branch cannot be used after header branch.
-

7. Refrigerant piping system

7.2 Outdoor unit Connection



- Selecting the Diameters of A and E
 A: Piping from the indoor unit to the first branch. The diameter that can handle the capacity of the master and slave combined.
 E: The diameter that can handle the capacity of the slave

Permissible difference of elevation for outdoor units (H1)	Less than or equal to 0.5 m
Permissible length of piping for outdoor units (L1 + L2)	Less than or equal to 7 m

- For the piping length and diameter standards other than those in the above table, refer to the table in 'Pipe Connection Method between outdoor unit / indoor unit' chapter.

CAUTION

- An additional Y branch joint is required to connect outdoor units in a series.
- When connecting piping in outdoor units, piping must level off or be on a gradient towards a slave outdoor unit in order to prevent oil from accumulating in the slave outdoor unit. Otherwise, the product may not work properly.
- When connecting piping among outdoor units, the main piping must be positioned lower than the connecting ports on the outdoor units in order to prevent oil from accumulating in the outdoor unit. Otherwise, the product may not work properly.

Additional Branch for outdoor unit connection

Unit	Combination Specifications	Model Name	Gas pipe	Liquid pipe
2 Unit		ARCNN41		

- For more information, refer accessory installation manual.
- Maximum number of connectable units could be different in accordance with model line up of target region.

7. Refrigerant piping system

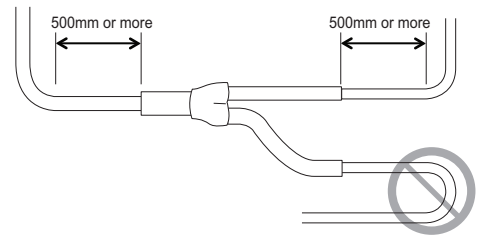
7.3 Indoor Unit Connection

◆ Indoor Unit connecting pipe from branch (a,b,c,d,e,f)

Indoor Unit capacity [kW(Btu/h)]	Liquid pipe [mm(inch)]	Gas pipe [mm(inch)]
≤ 5.6(19,100)	Ø6.35(1/4)	Ø12.7(1/2)
< 16.0(54,600)	Ø9.52(3/8)	Ø15.88(5/8)
< 22.4(76,400)	Ø9.52(3/8)	Ø19.05(3/4)
≤ 28.0(95,900)	Ø9.52(3/8)	Ø22.2(7/8)

⚠ CAUTION

- Bending radius should be at least twice the diameter of the pipe.
- Bend pipe after 500mm or more from branch(or header).
Do not bend U type.
It may cause Performance unsatisfactory or noise.



7. Refrigerant piping system

7.4 The amount of Refrigerant

The calculation of the additional charge should take into account the length of pipe and CF(correctionFactor) value of indoor unit.

Additional charge(kg)	=	Total liquid pipe : Ø25.4 mm	×	0.480(kg/m)
	+	Total liquid pipe : Ø22.2 mm	×	0.354(kg/m)
	+	Total liquid pipe : Ø19.05 mm	×	0.266(kg/m)
	+	Total liquid pipe : Ø15.88 mm	×	0.173(kg/m)
	+	Total liquid pipe : Ø12.7 mm	×	0.118(kg/m)
	+	Total liquid pipe : Ø9.52 mm	×	0.061(kg/m)
	+	Total liquid pipe : Ø6.35 mm	×	0.022(kg/m)
	+	CF value of indoor unit		

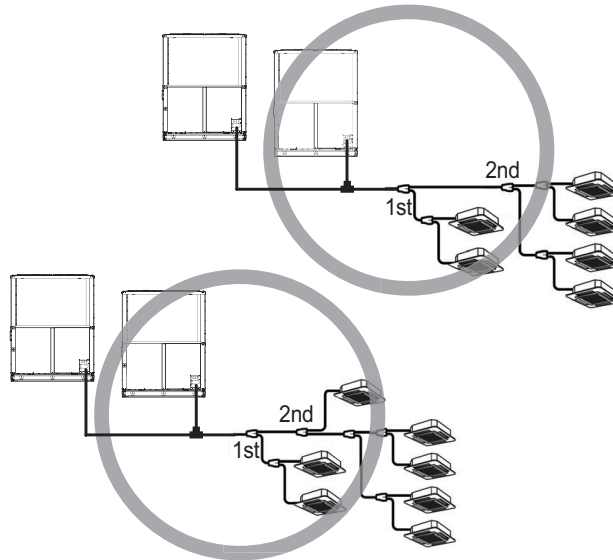
Note

For CF value (additional refrigerant) table of indoor units, please refer to installation manual of outdoor unit.

7. Refrigerant piping system

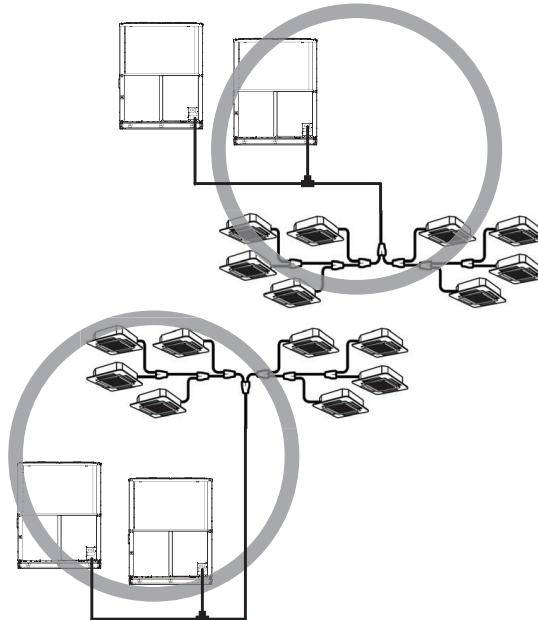
7.5 Distribution Method

■ Horizontal Distribution



■ Vertical Distribution

Ensure that the branch pipes are attached vertically.



7. Refrigerant piping system

7.6 Selection of Y Branch and Header

7.6.1 Y Branch

[Unit : mm]

Models	Gas pipe	Liquid pipe
ARBLN01621		
ARBLN03321		
ARBLN07121		
ARBLN14521		
ARBLN23220		

* For example. Indicated Ø9.52 is the outer diameter(O.D..) of field jointed piping.

7. Refrigerant piping system

7.6.2 Header

[unit:mm]

Models	Gas pipe	Liquid pipe
4 branch ARBL054		
7 branch ARBL057		
4 branch ARBL104		
7 branch ARBL107		
10 branch ARBL1010		
10 branch ARBL2010		

8. Electrical Wiring

8.1 Electrical Wiring

8.1.1 Caution

1. Follow ordinance of your governmental organization for technical standard related to electrical equipment, wiring regulations and guidance of each electric power company.

WARNING

- **Only licensed electricians should do the electrical work using special circuits in accordance with regulations and this installation manual. Insufficient capacity or any defects of the power supply circuit may cause fire or electric shock.**
2. Install the Outdoor Unit communication line away from the power source wiring so that it is not affected by electric noise from the power source. (Do not run it through the same conduit.)
 3. Follow ordinance of your governmental organization for technical standard related to electrical equipment, wiring regulations and guidance of each electric power company.

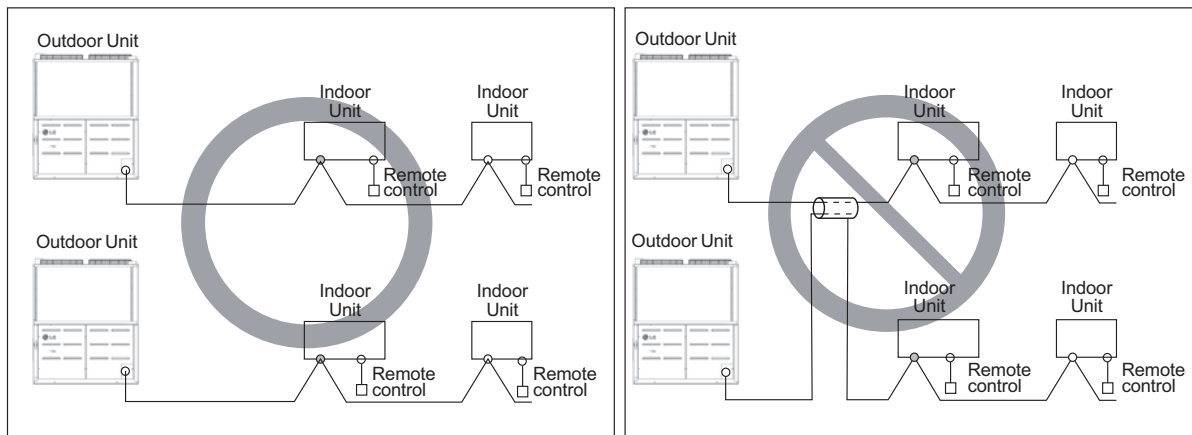
WARNING

- **Be sure to correct the outdoor unit to earth. Do not connect earth line to any gas pipe, liquid pipe, lightning rod or telephone earth line. If earth is incomplete, it may cause an electric shock.**
4. Give some allowance to wiring for electrical part box of Indoor and Outdoor Units, because the box is sometimes removed at the time of service work.
 5. Never connect the main power source to terminal block of communication line. If connected, electrical parts will be burnt out.
 6. Use 2-core shield cable for transmission cable.
If communication lines of different systems are wired with the same multiple-core cable, the resultant poor transmitting and receiving will cause erroneous operations.

WARNING

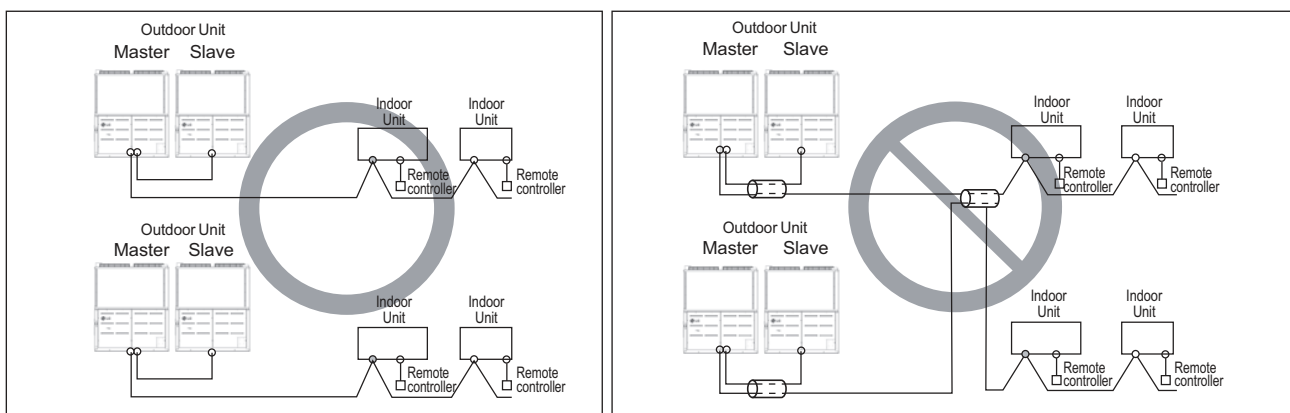
- Use round pressure terminals for connections to the power cable. It may cause fire or flame damages on the electrical parts.
 - Make sure that the power unbalance ratio is not greater than 5 %. If it is greater the unit's lifespan will be reduced.
 - Use the 2-core shield cables.
 - Do not use them together with power cables.
 - Do not use the multi-core cables.
7. Only the communication line specified should be connected to the terminal block for Outdoor Unit communication.
 8. For the grounding power cables for the indoor unit, use the cables as below.
 - A corrosive-resistant metal cable with equivalent or higher strength/size of annealed copper wire with 1.6 mm in diameter
 - A single cord or a single cap-tire cable with more than 1.25 mm² cross section
 - A double-conductor cable with more than 0.75 mm² cross section which is a cable compressed or twisted by two conductors from each side.

8. Electrical Wiring



2-Core Shield Cable

Multi-Core Cable



2-Core Shield Cable

Multi-Core Cable

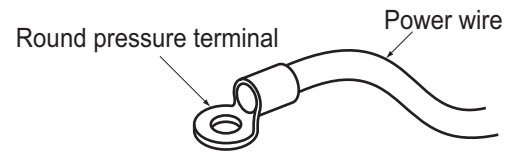
⚠ CAUTION

- Use the 2-core shield cables for communication lines. Never use them together with power cables.
- The conductive shielding layer of cable should be grounded to the metal part of both units.
- Never use multi-core cable.
- As this unit is equipped with an inverter, to install a phase leading capacitor not only will deteriorate power factor improvement effect, but also may cause capacitor abnormal heating. Therefore, never install a phase leading capacitor.
- Make sure that the power unbalance ratio is not greater than 2%. If it is greater the units lifespan will be reduced.

8. Electrical Wiring

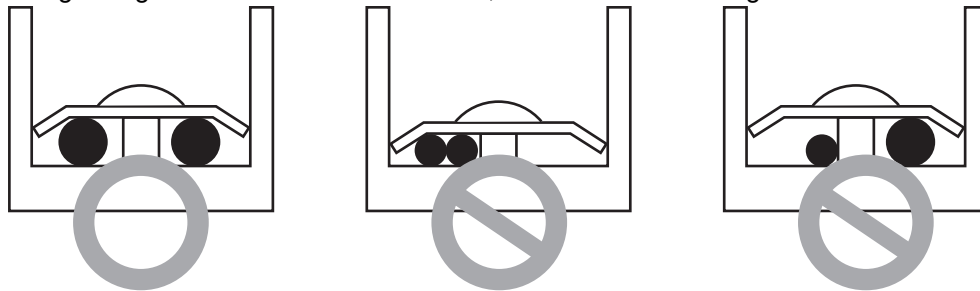
■ Precautions when laying power wiring

Use round pressure terminals for connections to the power terminal block.



When none are available, follow the instructions below.

- not connect wiring of different thicknesses to the power terminal block. (Slack in the power wiring may cause abnormal heat.)
- When connecting wiring which is the same thickness, do as shown in the figure below.



- For wiring, use the designated power wire and connect firmly, then secure to prevent outside pressure being exerted on the terminal block.
- Use an appropriate screwdriver for tightening the terminal screws. A screwdriver with a small head will strip the head and make proper tightening impossible.
- Over-tightening the terminal screws may break them.

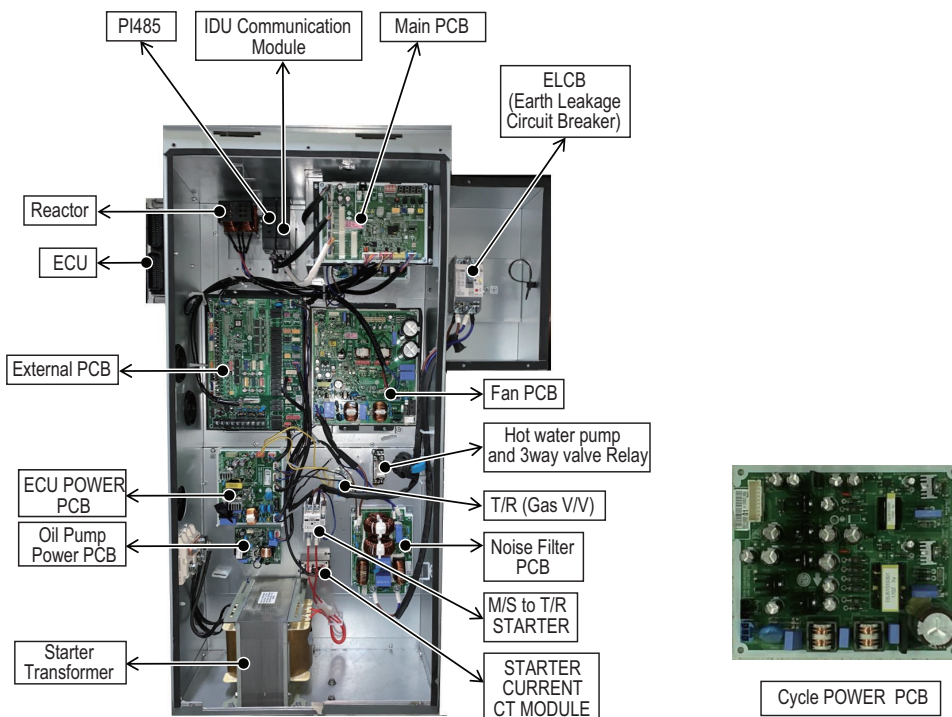
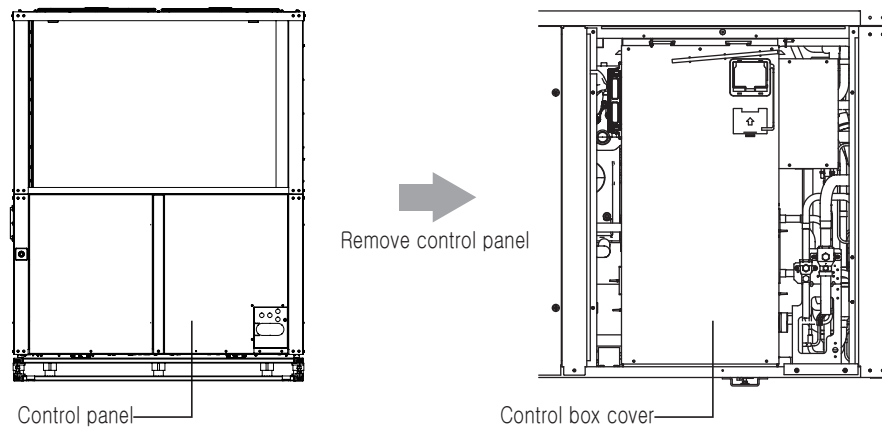
⚠ CAUTION

When the 400 volt power supply is applied to "N" phase by mistake, replace inverter PCB and transformer in control box.

8. Electrical Wiring

8.1.2 Control box and connecting positioning of wiring

- Switch off the circuit breaker to disconnect the electric current and loosen all the screws of the front control panel on the right, and remove the panel by pulling it.
- Disconnect the electric current, wait for 10 minutes, and open the control box cover.
- Connect the transmission cable between the main and the sub outdoor unit through the terminal block. When the central control system is connected to the outdoor unit, a dedicated PCB must be connected between them.
- When connecting the transmission cable between the outdoor and indoor units with shielded wire, make sure to connect the shield ground to the grounding screw.
- When connecting to the central control system with shielded wire, make sure to connect the shield ground to the grounding screw.



8. Electrical Wiring

8.1.3 Transmission and Power Cables

1. Transmission cable (between outdoors and indoor units)

- Types : shielding wire
- Cross section : over 1.0~1.5mm²
- Insulation material : PVC
- Maximum allowable temperature: 60°C
- Maximum allowable line length: under 640m

2. Remote control cable

- Types : 3-core cable

3. Central control cable

Product type	Wire type	Diameter
ACP&AC Manager	2-core wire (shielding wire)	1.0~1.5mm ²
AC Smart	2-core wire (shielding wire)	1.0~1.5mm ²
Simple/regular central controller	4-core wire (shielding wire)	1.0~1.5mm ²

4. Separation distance of transmission and power cables

- If the transmission and power cables are run alongside each other, then there is a strong likelihood of operational failure developing due to the interference in the signal wiring caused by electrostatic and electromagnetic coupling.
If the transmission and power cables are running alongside, keep the distance of more than 50mm between them.
- Separation distance from the power cables of other equipment

Current capacity of power line	Spacing	
More than 100V	10A	300mm
	50A	500mm
	100A	1,000mm
	More than 100A	1,500mm

Note

- 1) The figures are based on the assumed length of parallel cabling up to 100 m. For the length in excess of 100 m the figures will have to be recalculated in direct proportion to the additional length of cable involved.
- 2) If the power supply waveform continues to exhibit some distortion, the recommended separation distance in the table should be increased.
If the cables are laid inside the conduits or tied up to one bundle, then the following considerations must be given to the issue.
 - Do not lay the power cable and the transmission cable in the same conduit.
 - Do not bind the transmission cable and the power cable together.

WARNING

- Did you ground the both outdoor and indoor units?
- Insufficient grounding may cause electric shock. Only licensed electricians should do the grounding work.
- For the indoor unit grounding, the earth wire is needed to prevent the electric shock in case of a short circuit, the communication problems due to noise, and the motor leakage current.

8. Electrical Wiring

5. Outdoor Unit Power Cable Specifications and Switch Capacity

Type of Outdoor Unit	Power Specifications	Wire Thickness (mm ²)			Earth Leakage Circuit Breaker (ELCB)
		Main power cable wire	Branch wire	Ground wire	
1Unit	50/60 Hz 220 V~	4	-	4	Below 30 A 500 mA 0.1 sec
2Unit	50/60 Hz 220 V~	4 + 4 (10)	(4)	4 + 4	Below 30 A + 30 A (60 A) 500 mA 0.1 sec

■ Branch wire

Power cable wire between a master and a slave¹ outdoor unit — minimum of 4 mm²

- The above standards are based on CV wires
- For detailed wire specifications, contact the head office
- For 3-phase products, use 3-phase, 4-wire and 4-pole ELCB
- For single-phase products, use 2-pole or 3-pole ELCB

Note

- Do not install any 'individual switch or electrical outlet' to disconnect each of indoor unit separately from the power supply.
- Bear in mind the ambient conditions (ambient temperature, direct sunlight, rain water, etc.) when proceeding with the wiring and connections.
- The cable size is the minimum value for metal conduit wiring.
The power cable size should be 1 rank thicker than normal, taking into account the cable voltage drops.
- For the specific wiring work, comply with the requirements of the wiring regulations of the region.
- For the power cable of the outdoor unit parts, use a standardized products.
- Do not connect the ground wire to any gas pipes, liquid pipes, lightning rod or telephone ground wire.
- Make sure to use the leakage circuit breaker.

WARNING

- Make sure to use specified cables for connections so that no external force is imparted to terminal connections. If connections are not fixed firmly, it may cause heating or fire.
- Make sure to use the appropriate type of overcurrent protection switch. Note that the generated overcurrent may include some amount of direct current.
- The earth leakage circuit breaker should be installed. Otherwise, there is a risk of electric shock.
- Do not use anything other than the breaker and the fuse with correct capacity. Using the fuse, cable, or copper wire with too large capacity may cause a malfunction or fire.
- Be sure not to make the 3-phase 4-wire system of the indoor unit connection as a reversed phase or open phase when connecting.
- Use round pressure terminals for connections to the power cable. It may cause fire or flame damages on the electrical parts.
- When installing the main power, make sure to have N phase. If the voltage of R.S.T. phase is impressed in the "N" phase, it causes fire damage on the valuable electric components.

8. Electrical Wiring

8.2 DIP Switch Setting

8.2.1 Checking according to dip switch setting

You can check the setting values of the Master outdoor unit from the 7 segment LED. The dip switch setting should be changed when the power is OFF.

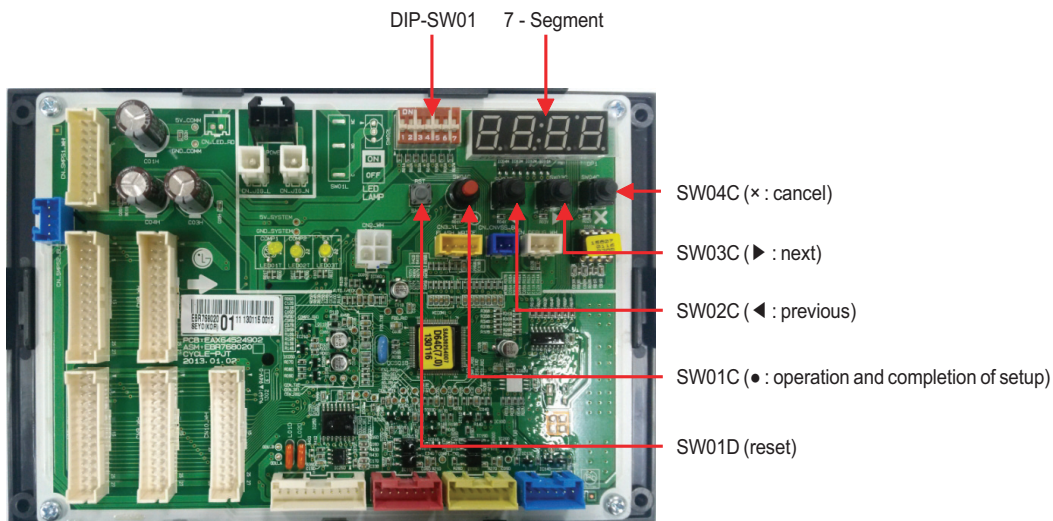
8.2.2 Checking the setting of the Master unit

The number is sequentially appeared at the 7 segment in 5 seconds after applying the power. This number represents the setting condition.

◆ Initial display order

Symbol	Number	Meaning
①	16 ~ 30	Master model capacity(HP)
②	16 ~ 30	Slave model capacity(HP)
③	16 ~ 60	Total capacity(HP)
④	1	Heat Pump
⑤	38	380 V model
	125	220 V 50 Hz model
	126	220 V 60 Hz model
⑥	1	High efficiency model

◆ Main PCB



⚠ CAUTION

Product may not properly operate if the relevant DIP switch is not properly setup.

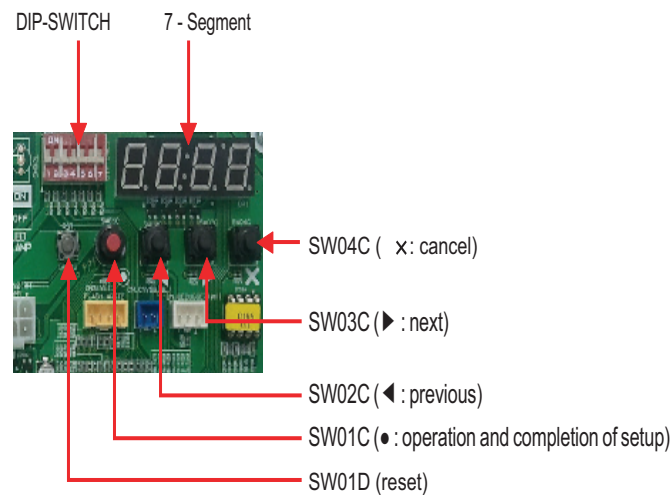
Master/Slave Unit	Dip switch setting	Remark
Master		Factory setting Normal mode
Slave		The slave outdoor unit must be configured.

8. Electrical Wiring

8.3 Automatic Addressing

- **The address of indoor units would be set by auto addressing**
 1. Wait for 3 minutes after supplying power. (Master and Slave outdoor units, indoor units)
 2. Press RED button of the outdoor units for 5 seconds. (SW01C)
 3. A "88" is indicated on 7-segment LED of the outdoor unit PCB.
 4. For completing addressing, 2~7 minutes are required depending on numbers of connected indoor units
 5. Numbers of connected indoor units whose addressing is completed are indicated for 30 seconds on 7-segment LED of the outdoor unit PCB
 6. After completing addressing, address of each indoor unit is indicated on the wired remote control display window. (CH01, CH02, CH03,, CH06 : Indicated as numbers of connected indoor units)

◆ Main PCB

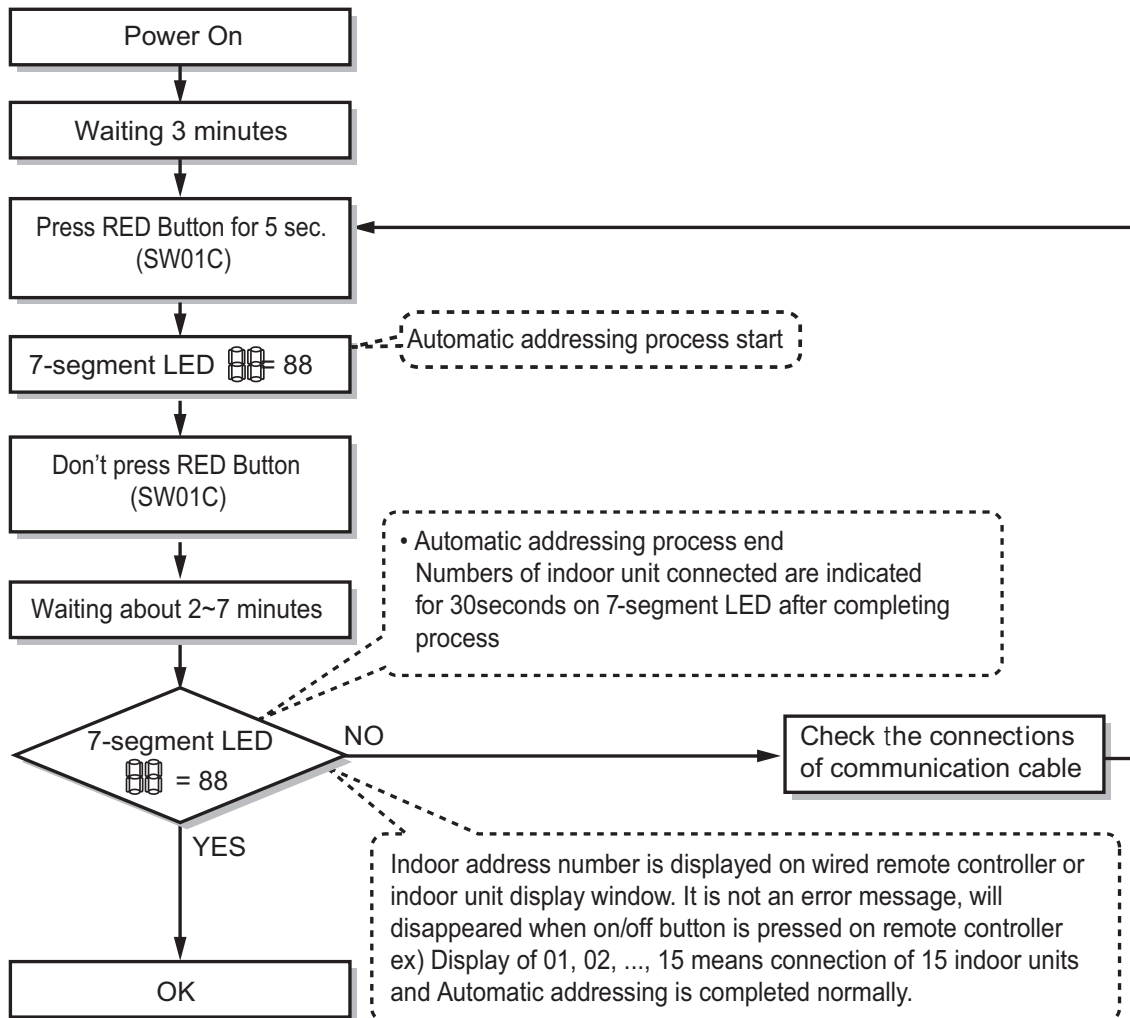


⚠ CAUTION

- In replacement of the indoor unit PCB, always perform Auto addressing setting again (At that time, please check about using Independent power module to any indoor unit.)
- If power supply is not applied to the indoor unit, operation error occur.
- Auto addressing is only possible on the master Unit.
- Auto addressing has to be performed after 3 minutes to improve communication.

8. Electrical Wiring

◆ The Procedure of Automatic Addressing



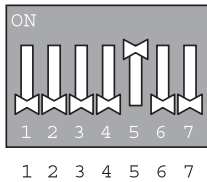
8. Electrical Wiring

8.4 Additional Functions Setup

Lift the dip switch #5 up to set up the additional functions you desire by using the buttons.

CAUTION

You will be able to set the switch functions only when the power (all of the indoor units) is OFF.



Mode		Function		Option			Value		Action		Remarks (save)
Contents	Display	Contents	Display	Contents	Display	Contents	Display	Contents	Display		
Installer setup function	Func	COOL & HEAT selector	Fn1	OFF	op1 ~ op2	Selected value display	-	-	Setup application	N/A	EEPROM (save)
		High static mode	Fn2	OFF	op1 ~ op3	Selected value display	-	-	Setup application	N/A	EEPROM (save)
		Night low noise mode	Fn3	OFF	op1 ~ op12	Selected value display	-	-	Setup application	N/A	EEPROM (save)
		Outdoor unit address	Fn5	-	-	-	0 ~255	Selected value	Setup application	N/A	EEPROM (save)
		Snow removal + forced defrost	Fn6	OFF	Op1 (snow removal / defrost)	Selected value display	-	-	Setup application	N/A	EEPROM (save)
		Engine Fuel Type	Fn23	OFF	0LNG~2LPA	Selected value display	-	-	Setup application	N/A	EEPROM (save)
		Reverse Fan Rotation	Fn10	OFF	on	Selected value display	-	-	Setup application	N/A	EEPROM (save)
		ODU fan RPM maximum setting	Fn13	OFF	op1~op6	Selected value display	-	-	Setup application	N/A	EEPROM (save)
		Target hot water temperature setting	Fn20	OFF	60~70	Setup Application	-	-	Setup application	N/A	EEPROM (save)
		Setting Offset The Heating goal superheat	Fn21	0~9		Selected value display	-	-	Setup application	N/A	EEPROM (save)
		Set up the Oil Recovery entry time	Fn22		OFF, 4hr, 6hr	Selected value display	-	-	Setup application	N/A	EEPROM (save)

CAUTION

The functions saved in EEPROM remain even after resetting.
Setting it OFF is needed to cancel the function completely.

8. Electrical Wiring

GHP SUPER III

Special Guide

- 1. Cautions for Refrigerant Leaks**
- 2. Installation Guide at the Seaside**

1. Caution For Refrigerant Leaks

The installer and system specialist shall secure safety against leakage according to local regulations or standards. The following standards may be applicable if local regulations are not available.

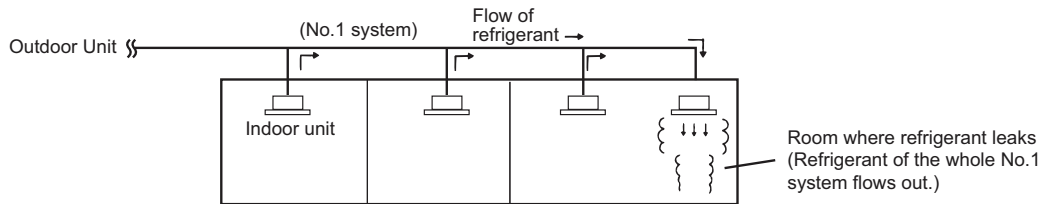
1.1 Introduction

Though the R410A refrigerant is harmless and incombustible itself, the room to equip the air conditioner should be large to such an extent that the refrigerant gas will not exceed the limiting concentration even if the refrigerant gas leaks in the room.

1.1.1 Limiting concentration

Limiting concentration is the limit of Freon gas concentration where immediate measures can be taken without hurting human body when refrigerant leaks in the air. The limiting concentration shall be described in the unit of kg/m³ (Freon gas weight per unit air volume) for facilitating calculation.

Limiting concentration: 0.44kg/m³ (R410A)



1.2 Checking procedure of limiting concentration

Check limiting concentration along following steps and take appropriate measure depending on the situation.

1.2.1 Calculate amount of all the replenished refrigerant (kg) per each refrigerant system.

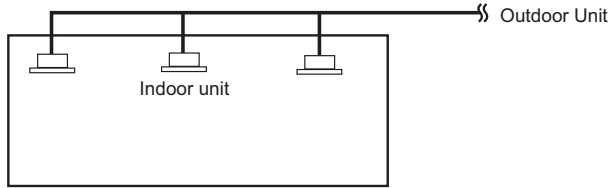
Amount of pre-charged refrigerant per single system	+	Amount of additional replenished refrigerant	=	Total amount of refrigerant in the system (kg)
Amount of replenished refrigerant at factory shipment		Amount of additionally replenished refrigerant depending on piping length or piping diameter by customer		Note : In case one refrigerant facility is divided into 2 or more refrigerant systems and each system is independent, amount of replenished refrigerant of each system shall be adopted.

1. Caution For Refrigerant Leaks

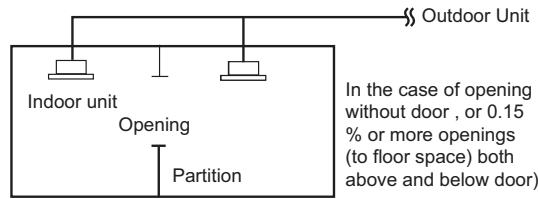
1.2.2 Calculate minimum room capacity

Calculate room capacity by regarding a portion as one room or the smaller room.

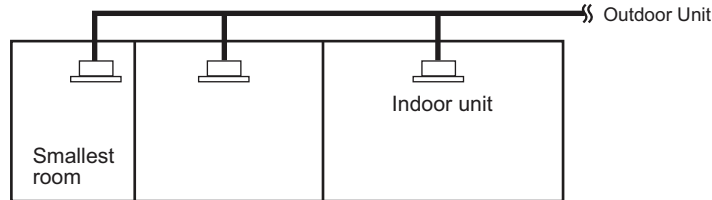
1. Without partition



2. With partition and with opening which serve as passage of air to adjoining room



3. With partition and without opening which serve as passage of air to adjoining room



◆ Calculate refrigerant concentration

$$\frac{\text{Total amount of refrigerant system (kg)}}{\text{Volume of smallest room where indoor unit is installed (m}^3\text{)}} \leq$$

$$\begin{matrix} \text{Maximum concentration} \\ \text{limit} \\ | \\ \text{(R410A)} \end{matrix} \quad (\text{kg/m}^3)$$

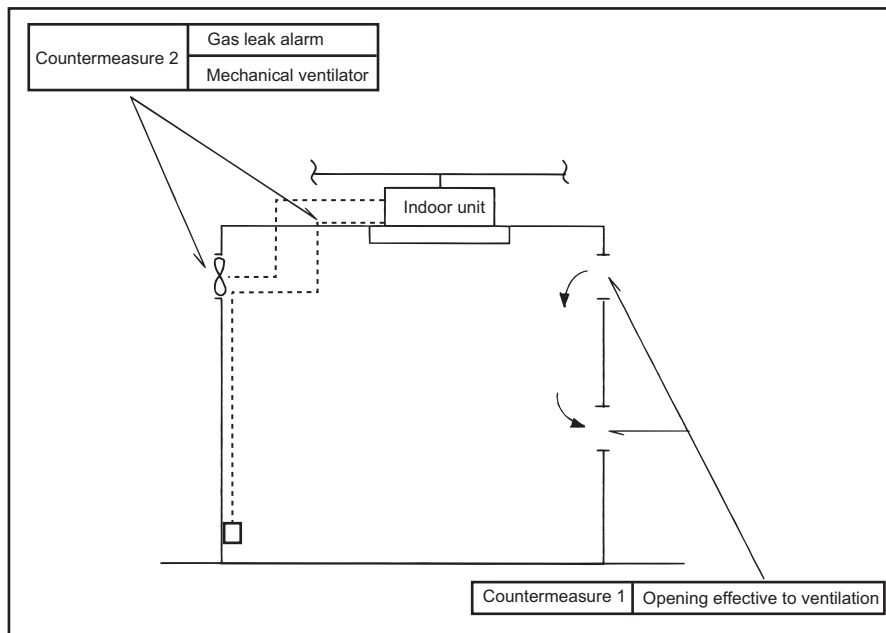
In case the result of calculation exceeds the concentration limit, perform the same calculations by shifting to the second smallest, and the third smallest rooms until at last the result is below the concentration limit.

1. Caution For Refrigerant Leaks

◆ In case the concentration exceeds the limit

When the concentration exceeds the limit, change original plan or take one of the counter measure shown below:

- **Counter measure 1**
Provide opening for ventilation.
Provide 0.15% or more opening to floor space both above and below door, or provide opening without door.
- **Counter measure 2**
Provide gas leak alarm linked with mechanical ventilator.
Reducing the outdoor refrigerant qty.



⚠ CAUTION

Pay a special attention to the place, such as a basement, etc. where refrigerant can stay, since refrigerant is heavier than air.

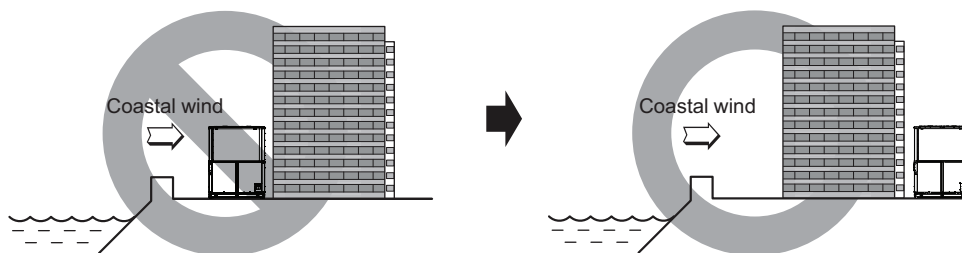
2. Installation Guide at the seaside

⚠ CAUTION

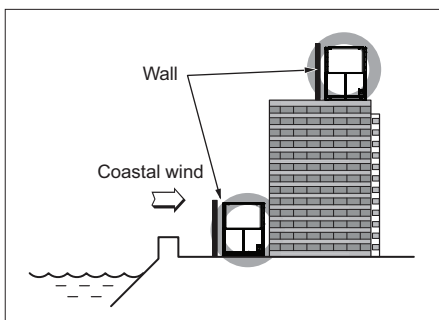
1. Air conditioners should not be installed in areas where corrosive gases, such as acid or alkaline gas, are produced.
2. Do not install the product where it could be exposed to sea wind (salty wind) directly. It can result corrosion on the product. Corrosion, particularly on the condenser and evaporator fins, could cause product malfunction or inefficient performance.
3. If outdoor unit is installed close to the seaside, it should avoid direct exposure to the sea wind. Otherwise it needs additional corrosion resistance treatment on the heat exchanger.

2.1 Selecting the location(Outdoor Unit)

1. If the outdoor unit is to be installed close to the seaside, direct exposure to the sea wind should be avoided. Install the outdoor unit on the opposite side of the sea wind direction.



2. In case, to install the outdoor unit on the seaside, set up a windbreak not to be exposed to the sea wind.



- It should be strong enough like concrete to prevent the sea wind from the sea.
- The height and width should be more than 150% of the outdoor unit.
- It should be keep more than 700 mm of space between outdoor unit and the windbreak for easy air flow.

3. Select a well-drained place.

⚠ CAUTION

Periodic (more than once/year) cleaning of the dust or salt particles stuck on the heat exchanger by using liquid.

2. Installation Guide at the seaside



Air Solution

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The air conditioners manufactured by LG have received ISO9001 certificate for quality assurance and ISO14001 certificate for environmental management system.
The specifications, designs, and information in this brochure are subject to change without notice.