

Highlight



- Air cooled VRF Heat pump & Heat Recovery

- 9.0 ~ 33.6kW (Cooling capacity based)
- Both 1Ø, 220 ~ 240V, 50Hz and 3Ø, 380 ~ 415V, 50H
- Side discharge outdoor unit
- Includes the industry's first single phase Heat Recovery s
- Includes the industry's first R32 side discharge

How does it work?

Available in Heat Pump and Heat Recovery Models



Combination of Cooling, Heating and Hot Water Solution



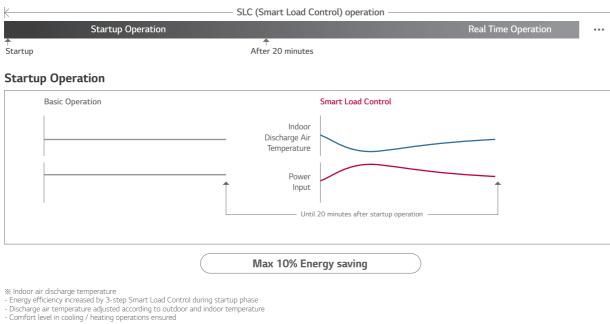


ENERGY SAVING S

Smart Load Control Applied

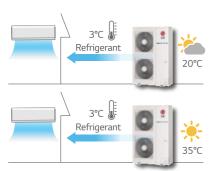
Enhanced comfort and up to 23% energy savings with MULTI V load control

MULTI V S changes indoor discharge air temperature continuously according to load, to save energy.

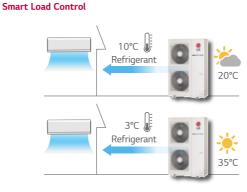


Real Time Operation

Basic Operation



Fixed refrigerant temperature



Fixed refrigerant temperature

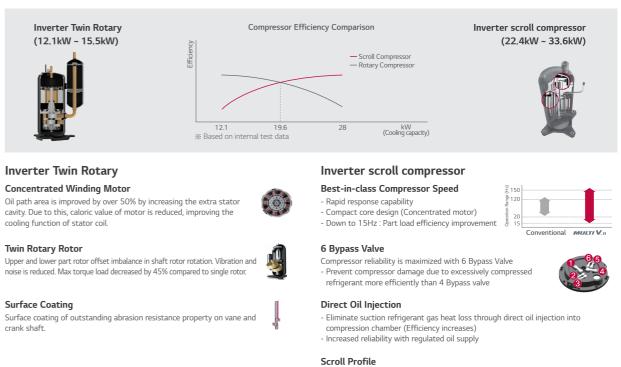


※ How to set up : By dip switch in outdoor unit (Referred to Product Data Book) Factory default setting is Off.
 Outdoor temperature condition : EER 100% / 75% / 50% / 25% = 35℃ (DB) / 30℃ (DB) / 25℃ (DB) / 20℃ (DB)
 Indoor temperature condition : 27℃ (DB) / 19℃ (WB)

W Dual sensing (Temperature & humidity) smart load control is possible with Remote controller PTEMTB100 (White) / PREMTBB10 (Black)

Inverter Twin Rotary & Inverter Scroll Compressor

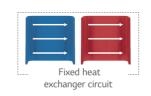
Adapted high efficient compressor according to capacity



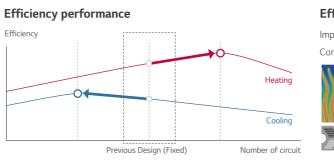
Optimal Heat Exchanger

Maximize efficiency according to different heat exchanger path by cooling and heating

Variable Heat Exchanger Circuit intelligently selects the optimal path. With this smart path selection technology, an average of 6% increase in the efficiency of both operations has been achieved.

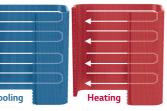






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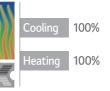
- The enhanced reliability with regulated oil supply - Efficiency increases by expanding 96% Bypass area and 17% improved volume ratio by non-uniform scroll thickness

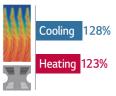


Efficiency up due to Fin shape

Improved heat exchanger efficiency of up to 28%

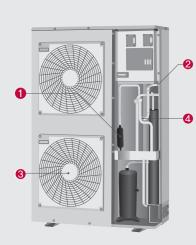
Conventional Wide Louver Plus Fin





Reliable Refrigerant Components

LG technology allows for superior performance and component durability



MULTI V S improved reliability with advanced technology :

> - Oil separator Accumulator - Sub-cooling



Double Sub-cool Interchange

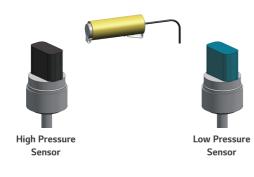
Smart Control

Pressure control applied for smart, quick and precise response to user's temperature request

* Based on equivalent pipe length

Temperature + Pressure Control

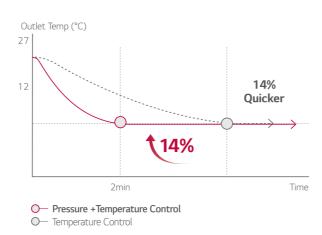
Senses and controls pressure directly using pressure sensor for faster and more precise response to load variation.



Quick Operating Response

Desired temperature can be reached up to 14% faster in cooling mode with pressure control, allowing more accurate control of indoor environment for maximized comfort.

% Specifications may vary for each model.



Corrosion Resistance Black Fin

Strong durability against high salinity and heavily polluted air

Black Fin ensures continued operation of MULTI V S in highly corrosive environments such as salt laden atmosphere in coastal towns or severe air pollution in industrial cities. This improvement in durability prolongs the product's lifespan and lowers both the operational and maintenance costs.

Corrosion Resistance Proven by Certified Tests

LG Corrosion Resistance solution passed ISO 21207 accelerated corrosion test conducted by an independent test organization and the result has been certified by prestigious global certification organization, TUV.



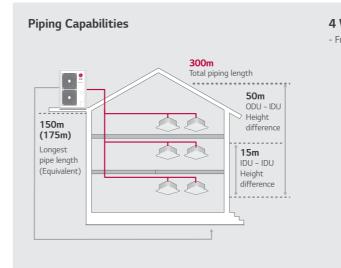


- Test Method B of ISO 21207 - ASTM B117 / ISO 9227 (10,000 hours)

Sufficient Piping Length

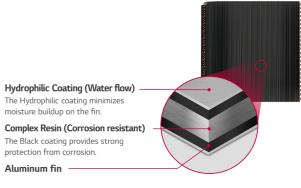
Increased piping length allows for flexible design and installation

MULTI V S inverter technology and sub cooling control circuit technology allows greater piping length and outstanding elevation differences. A cooling system can be implemented more flexibly in a shop, office and even high-rise building, reducing the designer's work time and providing more efficient design.



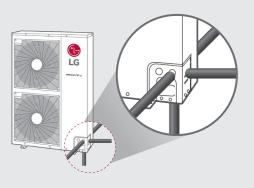
Enhanced Coating Layers

The black coating with enhanced epoxy resin is applied for strong protection from various corrosive external conditions such as salt contamination and air pollution. Moreover, the hydrophilic film keeps water from accumulating on the heat exchanger's fin, minimizing moisture buildup and eventually making it even more corrosion



4 Way Piping

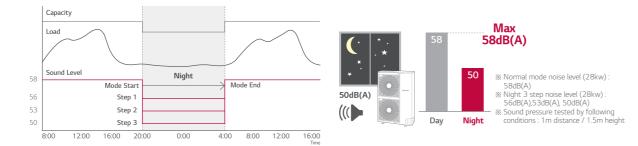
- Free design and installation by 4 way piping.



Low Noise Operation

Decreased noise during operation with low noise functionality

At night low noise mode, the noise level can reduce up to 14% in comparison with normal operation mode.



Fan Technology and RPM Control

External static pressure control enables outdoor unit to offer more flexibility in installations.

New axial fan offers higher air volume, increased static pressure, decreased noise and enhanced efficiency.

Fan Technology

The new axial fan has a mogul trailing edge, narrow hub blade and reverse hub, this provides a high efficiency, low noise, wide fan, as well as improving the air flow rate.



Super cannon fan increases the air volume in 50 CMM and the noise level is decreased by 4dB(A).





(3Ø) 10 / 12HP

 Straight air flow - New shroud adopted - Performs high static pressure

Fan RPM control

from the fan even in high-rise buildings.

Fan

Due to the new shroud and ROM control, the air flows straight away

Shroud

Fan RPM control

(Fan Max RPM Up)

MULTI V. 5

Upgraded Fault Detection and Diagnosis

Easy and convenient maintenance with self-diagnosis

The inclusion of FDD elements - Auto start-up, auto refrigerant check, black box functionality, simultaneous evaluation, and auto refrigerant collection, provides the optimal solution for user reliability and ease of maintenance.

- Auto commissioning mode
- Auto refrigerant collection
- Auto evaluation of refrigerant amount and charging
- Able to access LGMV (LG Monitoring View) by smartphone
- Black box function
- Piping & wiring error check-up
- FDD (Fault Detection and Diagnosis)



Nomenclature	
ARU N 100 L S S	Serial number Model Type S : Standard L : Compact Air Discharge Type
	S : Side Discharge Electrical Ratings L : 30, 380-415V, 50Hz G : 10, 220-240V, 50Hz
	Total Cooling Capacity in Horse Power(HP) unit EX) 8HP \rightarrow '080', 10HP \rightarrow '100'
	Combination of Inverter Type and Cooling Only or Heat Pump N : Inverter and H/P, V : Inverter and C/O
L	MULTI V System Outdoor Unit using R410A

Outdoor Units	Function		
Category	Functions	MULTI V S	
	Variable Path of Outdoor Unit HEX	-	
	HiPOR™ (High Pressure Oil	_	
Key Refrigerant Components	Return) Humidity Sensor	ARUB060GSS4 only	
	Corrosion Resistance Black Fin	0	
	Oil Sensor	-	
	Dual Sensing	ARUB060GSS4 only	
	Low Noise Operation	0	
	Hgih Static Mode of Outdoor Unit Fan	0	
	Partial Defrosting	-	
Special Function	Auto Dust Removal of Outdoor Unit	_	
special i unction	(Fan reverse rotation)	-	
	Indoor Cooling Comfort Mode Based Outdoor Temperature	0	
	Smart Load Control (SLC) (Changing indoor discharge air temperature according to load)	0	
	Outdoor Unit Control Refer to Humidity	ARUB060GSS4 only	
	Defrost / Deicing	0	
	High Pressure Switch	0	
Basic Function	Phase Protection	0	
	Restart Delay (3-minutes)	0	
	Self Diagnosis	0	
	Soft Start	0	
	Test Run Function	-	
	AC Ez (Simple Controller)	PQCSZ250S0	
	AC Ez Touch	PACEZA000	
	AC Smart IV	PACS4B000	
Central Controller	AC Smart 5	PACS5A000	
	ACP (Advanced Control Platform)	PACP4B000	
	ACP (Advanced Control Platform) 5	PACP5A000	
	AC Manager 5	PACM5A000	
BNU (Building	ACP5 (w U60FT)	0	
Network Unit)	ACP BACnet	PQNFB17C0	
IO Module (ODU Dr	y Contact)	PVDSMN000	
PDI (Power	Standard	PPWRDB000	
Distribution Indicator)	Premium	PQNUD1S40	
Cool / Heat Selector		PRDSBM	
Cycle Monitoring	LGMV	PRCTILO	
Device	Mobile LGMV	PLGMVW100	
Additional kit	Refrigerant Charging Kit	O (Logical operation) Not applied to ARUB060GSS4	
	Low Ambient Kit	-	
	Variable Water Flow Valve Control	-	

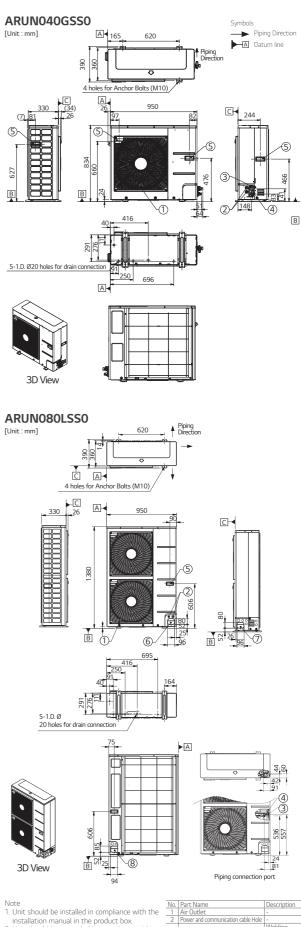


070

B

% O : Applied, - : Not Applied

Kit



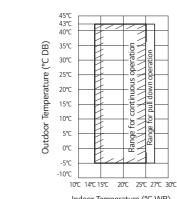
One should be installed in comparate with distribution manual in the product box.
 Unit should be grounded in accordance with the local regulation or applicable national

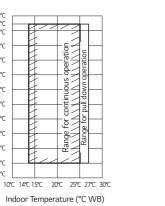
codes. 3. All electrical components and materials to be supplied from the site must comply with the Local regulations or international codes.
 Electrical characteristics chapter should be considered for electrical work and design. Especially the power cable and circuit break should be selected in accordance with that.

No.	Part Name	Description
1	Air Outlet	-
2	Power and communication cable Hole	-
3	Cas Dias Connection	Welding
С	Gas Pipe Connection	joint
	Line id Bine Committee	Welding
4	Liquid Pipe Connection	joint
5	Handle	-
6	Pipe routing hole (front)	-
7	Pipe routing hole (side)	-
8	Pipe routing hole (back)	-

TECHNICAL DATA Heat Pump

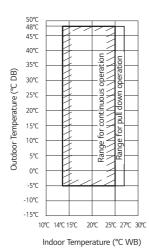
Cooling







Cooling





Heating

20°C 18°C 15°C

0°C

-5°C

-10°C

-15℃

-25°C

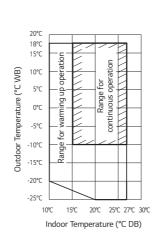
10°C

Indoor Temperature (°C DB)

(BM) 10°C

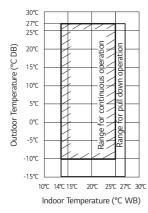
ູ່ 5℃

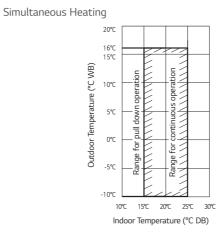
ð -20°C



15°C 20°C 25°C 27°C 30°C

Simultaneous Cooling

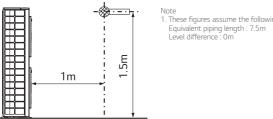




1. These figures assume the following operating conditions : Equivalent piping length : 7.5m

Level difference : 0m 2. Range of pull down operation : If the relative humidity is too high, cooling capacity can be decreased by the sensible

Position of Sound Level Measuring



1. These figures assume the following operating conditions : Equivalent piping length : 7.5m Level difference : 0m

ARUN040GSS0



НР						
Model Name						
Cooling (Rated)		kW				
Heating (Rated)		kW				
Input	Cooling (Rated)	kW				
Heating (Rated)		kW				
EER						
SEER						
COP	Rated Capacity					
SCOP						
Exterior	Color (General)					
	RAL Code (Classic)					
Heat Exchanger	Туре					
	Туре					
	Combination x No.					
Compressor	Motor Output x Number	W x No.				
	Oil Type					
	Oil Charge	CC				
	Туре					
	Motor Output x Number	W x No.				
Fan	Air Flow Rate (High)	m³/min x No.				
	Drive					
	Discharge	Side / Top				
Pipe	Liquid Pipe	mm (inch)				
Connection	Gas Pipe	mm (inch)				
Dimensions (\	N x H x D)	mm x No.				
Dimensions (\	N x H x D) - Shipping	mm x No.				
Net Weight		kg x No.				
Shipping Weig	jht	kg x No.				
Sound	Cooling	dB(A)				
Pressure Level	Heating	dB(A)				
Sound Power	Cooling	dB(A)				
Level	Heating	dB(A)				
Communicatio	on Cable	mm ² x No. (VCTF-SB)				
	Refrigerant Name					
Refrigerant	Precharged Amount in factory	kg				
5	t-CO ₂ eq					
	Control					
Power Supply		Ø, V, Hz				
Number of Ma	Number of Maximum Connectable Indoor Units					

- Note
 Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct.

 Refer to EUROVENT certification regulation for more detail test conditions.
 Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.

 Performances are based on the following conditions :

 Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB
 Heating Temperature : Indoor 27°C (80.6°F) DB / 15°C (56°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

 The maximum combination ratio is 160%.
 Wiring cable size must comply with the applicable local and national codes.
 Due to our policy of innovation some specifications may be changed without notification.
 Sound pressure level is measured on the rated condition in the aenchoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard. Therefore, these values can be increased owing to ambient conditors during operation.
 Power factor could vary less than ±1% according to the operating conditions.
 This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)



LG participates in the ECP programme for EUROVENT VRF program. Check ongoing validity of certification : www.eurovent-certification.com

4
ARUN040GSS0
12.1
12.5
4.03
3.10
3.00
5.63
4.03
3.97
Warm Gray
RAL 7044
Wide Louver Plus
BLDC Inverter Twin Rotary
(Inverter) x 1
4,000 x 1
FW68D (PVE)
1,300
Axial Flow Fan
124 x 1
60
DC INVERTER
Side
Ø9.52 (3/8)
Ø15.88 (5/8)
950 × 834 × 330
(1,065 × 918 × 461) × 1 70
70 77 x 1
50
52
72
75
2C x 1.0 ~ 1.5
R410A
1.8
3.758
Electronic Expansion Valve
220-240 , 1 , 50
220, 1, 60
8

ARUN050GSS0 / ARUN060GSS0





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	HP		5	6	
Model Name			ARUN050GSS0	ARUN060GSS0	
Conscitu	Cooling (Rated)	kW	14.0	15.5	
Capacity	Heating (Rated)	kW	16.0	18.0	
Input	Cooling (Rated)	kW	4.59	5.17	
Input	Heating (Rated)	kW	4.18	5.00	
EER			3.05	3.00	
SEER			7.40	7.53	
COP	Rated Capacity		3.83	3.60	
SCOP			4.16	4.35	
Exterior	Color (General)		Warm Gray	Warm Gray	
EXTERIO	RAL Code (Classic)		RAL 7044	RAL 7044	
Heat Exchanger	Туре		Wide Louver Plus	Wide Louver Plus	
	Туре		BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary	
	Combination x No.		(Inverter) x 1	(Inverter) x 1	
Compressor	Motor Output x Number	W x No.	4,000 × 1	4,000 × 1	
	Oil Type		FW68D (PVE)	FW68D (PVE)	
	Oil Charge	CC	1,300	1,300	
	Туре		Axial Flow Fan	Axial Flow Fan	
	Motor Output x Number	W x No.	124 x 2	124 x 2	
Fan	Air Flow Rate (High)	m³/min x No.	110	110	
	Drive		DC INVERTER	DC INVERTER	
	Discharge	Side / Top	Side	Side	
Pipe	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	
Connection	Gas Pipe	mm (inch)	Ø15.88 (5/8)	Ø19.05 (3/4)	
Dimensions (\	W x H x D)	mm x No.	950 × 1,380 × 330	950 × 1,380 × 330	
Dimensions (\	W x H x D) - Shipping	mm x No.	(1,065 x 918 x 461) x 1	(1,065 x 918 x 461) x 1	
Net Weight		kg x No.	94	94	
Shipping Weig	ght	kg x No.	106	106	
Sound	Cooling	dB(A)	51	52	
Pressure Level	Heating	dB(A)	53	54	
Sound Power	Cooling	dB(A)	72	72	
Level	Heating	dB(A)	76	77	
Communicatio	on Cable	mm ² x No. (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	
Definement	Refrigerant Name		R410A	R410A	
	Precharged Amount in factory	kg	3.0	3.0	
Refrigerant	t-CO ₂ eq		6.263	6.263	
	Control		Electronic Expansion Valve	Electronic Expansion Valve	
		~	220-240 , 1 , 50	220-240 , 1 , 50	
Power Supply		Ø, V, Hz	220, 1, 60 220, 1, 60		
Number of M	aximum Connectable Indo	or Units	10	13	

Note

Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct.

Refer to EUROVENT certification regulation for more detail test conditions.
Refer to EUROVENT certification regulation for more detail test conditions.
Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.

Performances are based on the following conditions :

Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB
Heating Temperature : Indoor 20°C (68°F) DB / 15°C (50°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

The maximum combination ratio is 160%.
Wiring cable size must comply with the applicable local and national codes.
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 anechoic rooms by ISO 9614 standard. Therefore, these values can be increased owing to ambient conditions good condition set.
Power factor could vary less than ±1% according to the operating conditions.

This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

ARUN040LSS0 / ARUN050LSS0 ARUN060LSS0



	HP		4
Model Name			ARUN040LSS0
Constitut	Cooling (Rated)	kW	12.1
Capacity	Heating (Rated)	kW	12.5
Lucia	Cooling (Rated)	kW	3.39
Input	Heating (Rated)	kW	2.75
EER			3.57
SEER			7.42
COP	Rated Capacity		4.55
SCOP			4.30
F. d	Color (General)		Warm Gray
Exterior	RAL Code (Classic)		RAL 7044
Heat Exchanger	Туре		Wide Louver Plus
	Туре		BLDC Inverter Twin Rotary
	Combination x No.		(Inverter) x 1
Compressor	Motor Output x Number	W x No.	4,000 x 1
	Oil Type		FW68D (PVE)
	Oil Charge	СС	1,300
	Туре		Axial Flow Fan
	Motor Output x Number	W x No.	124 x 2
Fan	Air Flow Rate (High)	m³/min x No.	110
	Drive		DC INVERTER
	Discharge	Side / Top	Side
Pipe	Liquid Pipe	mm (inch)	Ø9.52 (3/8)
Connection	Gas Pipe	mm (inch)	Ø15.883(5/8)
Dimensions (\	N x H x D)	mm x No.	950 × 1,380 × 330
Dimensions (\	N x H x D) - Shipping	mm x No.	(1,065 x 918 x 461) x 1
Net Weight		kg x No.	96
Shipping Weig	jht	kg x No.	108
Sound	Cooling	dB(A)	50
Pressure Level	Heating	dB(A)	52
Sound Power	Cooling	dB(A)	72
Level	Heating	dB(A)	76
Communicatio	on Cable	mm ² x No. (VCTF-SB)	2C x 1.0 ~ 1.5
	Refrigerant Name		R410A
Refrigerant	Precharged Amount in factory	kg	3.0
nenigerane	t-CO ₂ eq		6.263
	Control		Electronic Expansion Valve
D		<i>a</i>	380-415 , 3 , 50
Power Supply		Ø, V, Hz	380, 3, 60
Number of Ma	aximum Connectable Indo	or Units	8

Note
 Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct.

 Refer to EUROVENT certification regulation for more detail test conditions.
 Refer to EUROVENT verbification regulation for more detail test conditions.

 Performances are based on the following conditions :

 Cooling Temperature : Indoor 27°C (806°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB
 Heating Temperature : Indoor 27°C (806° DB / 19°C (56°F) DW / 0utdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

 The maximum combination ratio is 160%.
 Wiring cable size must comply with the applicable local and national codes.
 Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound prover level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard. Therefore, these values can be increased owing to ambient conditons.
 Power factor could vary less than ±1% according to the operating conditions.
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5	6
ARUN050LSS0	ARUN060LSS0
14.0	15.5
16.0	18.0
4.59	5.17
4.18	5.00
3.05	3.00
7.40	7.53
3.83	3.60
4.16	4.35
Warm Gray	Warm Gray
RAL 7044	RAL 7044
Wide Louver Plus	Wide Louver Plus
BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary
(Inverter) x 1	(Inverter) x 1
4,000 x 1	4,000 x 1
FW68D (PVE)	FW68D (PVE)
1,300	1,300
Axial Flow Fan	Axial Flow Fan
124 x 2	124 x 2
110	110
DC INVERTER	DC INVERTER
Side	Side
Ø9.52 (3/8)	Ø9.52 (3/8)
Ø15.88 (5/8)	Ø19.05 (3/4)
950 × 1,380 × 330	950 × 1,380 × 330
(1,065 x 918 x 461) x 1	(1,065 x 918 x 461) x 1
96	96
108	108
51	52
53	54
72	72
76	77
2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
R410A	R410A
3.0	3.0
6.263	6.263
Electronic Expansion Valve	Electronic Expansion Valve
380-415, 3, 50	380-415 , 3 , 50
380, 3, 60	380, 3, 60
10	13

MULTI < S HEAT PUMP

ARUN080LSS0 / ARUN100LSS0 ARUN120LSS0





LG participates in the ECP programme for EUROVENT VRF program. Check ongoing validity of certification www.eurovent-certification.com

	HP		8	10	12
Model Name			ARUN080LSS0	ARUN100LSS0	ARUN120LSS0
C	Cooling (Rated)	kW	22.4	28.0	33.6
Capacity	Heating (Rated)	kW	24.5	30.6	36.7
	Cooling (Rated)	kW	8.45	12.44	15.27
nput	Heating (Rated)	kW	6.96	8.50	12.23
EER			2.65	2.25	2.20
SEER			7.13	6.28	6.50
COP	Rated Capacity		3.52	3.60	3.00
SCOP			4.53	4.21	4.32
	Color (General)		Warm Gray	Warm Gray	Warm Gray
Exterior	RAL Code (Classic)		RAL 7044	RAL 7044	RAL 7044
Heat Exchanger	Туре		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
5	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
Compressor	Motor Output x Number	W x No.	4,200 x 1	5,300 x 1	5,300 x 1
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	СС	2,400	2,600	3,400
	Туре		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	124 x 2	250 x 2	250 x 2
an	Air Flow Rate (High)	m³/min x No.	140	190	190
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side
Pipe	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)
Connection	Gas Pipe	mm (inch)	Ø19.05 (3/4)	Ø22.2 (7/8)	Ø28.58 (1-1/8)
Dimensions (W x H x D)	mm x No.	950 × 1,380 × 330	1,090 × 1,625 × 380	1,090 x 1,625 x 380
Dimensions (N x H x D) - Shipping	mm x No.	(1,065 x 918 x 461) x 1	(1,065 x 918 x 461) x 1	(1,065 x 918 x 461) x 1
Vet Weight		kg x No.	115	142	155
Shipping Weig	ght	kg x No.	127	158	171
Sound	Cooling	dB(A)	57	58	60
Pressure Level	Heating	dB(A)	57	58	60
Sound Power	Cooling	dB(A)	78	77	78
_evel	Heating	dB(A)	81	79	82
Communicati	on Cable	mm ² x No. (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
	Refrigerant Name		R410A	R410A	R410A
	Precharged Amount in factory	kg	3.5	4.5	6.0
Refrigerant	t-CO ₂ eq		7.306	9.394	12.525
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
			380-415 , 3 , 50	380-415 , 3 , 50	380-415 , 3 , 50
Power Supply	,	Ø, V, Hz	380,3,60	380, 3, 60	380,3,60
	aximum Connectable Indo	orUnite	13	16	20

Note

Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct.

Refer to EUROVENT certification regulation for more detail test conditions.
Refer to EUROVENT certification regulation for more detail test conditions.
Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.

Performances are based on the following conditions :

Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB
Heating Temperature : Indoor 20°C (68°F) DB / 15°C (50°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

The maximum combination ratio is 160%.
Wiring cable size must comply with the applicable local and national codes.
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 anechoic rooms by ISO 9614 standard. Therefore, these values can be increased owing to ambient conditions good condition set.
Power factor could vary less than ±1% according to the operating conditions.

This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)



ARUB060GSS4

	HP	
Model Name		
Capacity	Cooling (Rated)	kW
Capacity	Heating (Rated)	kW
Input	Cooling (Rated)	kW
Input	Heating (Rated)	kW
EER		
SEER		
COP	Rated Capacity	
SCOP		
	Color	
Exterior	RAL Code (Classic)	
Heat Exchanger	Туре	
	Туре	
	Combination x No.	
Compressor	Motor Output x Number	W x No.
	Oil Type	
	Oil Charge	СС
	Туре	
	Motor Output x Number	W x No.
Fan	Air Flow Rate (High)	m³/min x No.
	Drive	
	Discharge	Side / Top
Disc	Liquid Pipe	mm (inch)
Pipe Connection	Low Pressure Gas Pipe	mm (inch)
#1	High Pressure Gas Pipe	mm (inch)
Dimensions (\	5	mm x No.
	V x H x D) - shipping	mm x No.
Net Weight		kg x No.
Shipping Weid	iht	kg x No.
Sound	Cooling	dB(A)
Pressure	Heating	dB(A)
	5	dB(A)
Sound Power Level	Heating	dB(A)
	2	mm ² x No.
Communicatio	on Cable	(VCTF-SB)
	Refrigerant Name	
Pefrigerant	Precharged Amount in factory	kg
Refrigerant	t-CO ₂ eq	
	Control	
Power Supply		Ø, V, Hz
romer suppry	or Units	

Note
1. Eurovent Test Condition : Type of indoor unit connected is only Ceiling Concealed Duct.

Refer to EUROVENT certification regulation for more detail test conditions.
Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.

2. Performances are based on the following conditions :

Cooling Temperature : Indoor 27°C (80.6°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB
Heating Temperature : Indoor 20°C (68°F) DB / 19°C (50°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

3. The maximum combination ratio is 160%.
4. Wiring cable size must comply with the applicable local and national codes.
5. Due to our policy of innovation some specifications may be changed without notification.
6. 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 semi-anechoic rooms by ISO 914 standard. Therefore, these values can be increased owing to ambient conditons.
7. Power factor could vary less than ±1% according to the operating conditions.
8. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warrning potential) = 2087.5)



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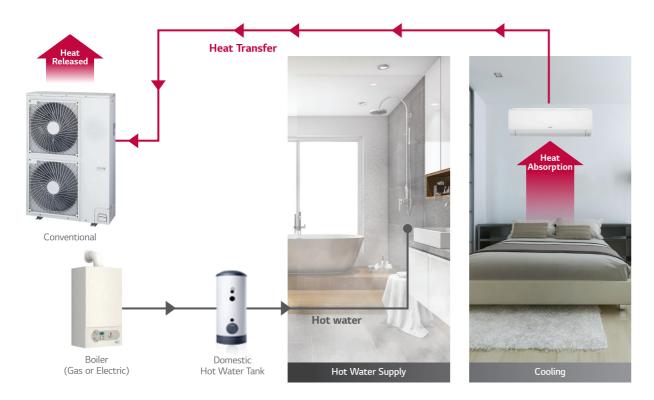
6	
ARUB060GSS4	
15.5	
18.0	
5.74	
5.14	
2.70	
5.92	
3.50	
3.79	
Warm Gray	
RAL 7044	
Wide Louver Plus	
Hermetically Sealed Scroll	
(Inverter) x 1	
4,200 x 1	
FW68D (PVE)	
1,700	
Axial Flow Fan	
124 x 2	
110	
DC INVERTER	
Side	
Ø9.52 (3/8)	
Ø19.05 (3/4)	
Ø15.88 (5/8)	
950 × 1,380 × 330	
(1,140 x 1,549 x 466) x 1	
118	
132	
56	
58	
76 78	
2C x 1.0 ~ 1.5	
R410A	
3.5	
7.306	
Electronic Expansion Valve	
220-230-240 , 1 , 50/60	
13	

Energy Savings

Energy consumption can be reduced as indoor heat is absorbed and transferred to hot water supply.

Conventional

Absorbed heat is released to outdoor air.

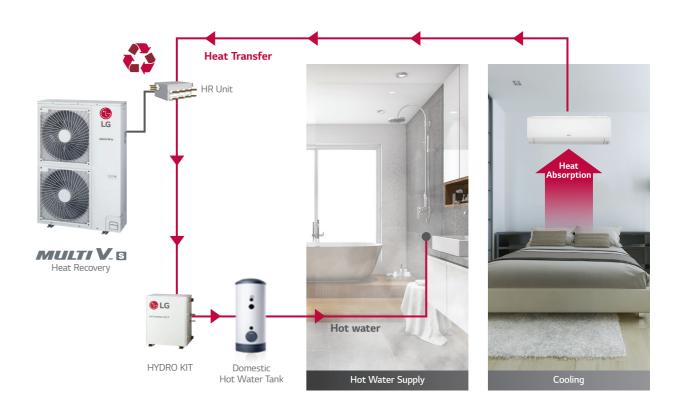


Energy Savings

Energy consumption can be reduced as indoor heat is absorbed and transferred to hot water supply.

MULTI V S Heat Recovery with HYDRO KIT

Absorbed heat from indoor space is used for making hot water.



MULTI V S

Compact Size & Light Weight

Its compact size and light weight make it easy to install and optimize space. (5/6HP)





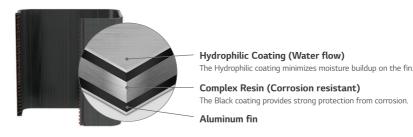
% IDU (Wall Mounted Unit) : 5 kBtu/h, 8 EA % This result can be different depending on actual environment

Corrosion Resistance Black Fin

Enhanced Coating Layers

The black coating with enhanced epoxy resin is applied for strong protection from various corrosive external conditions such as salt contamination and air pollution. Moreover, the hydrophilic film keeps water from accumulating on the heat exchanger's fin, minimizing moisture buildup and eventually making it even more corrosion resistant



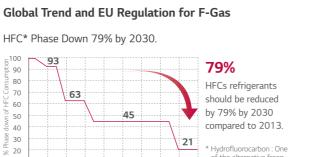


% Verification of corrosion resistance performance - Test Method B of ISO 21207 ASTM B117 / ISO 9227 (10.000 hours)



Less Refrigerant Charge

LG reduced refrigerant charge by applying environment-conscious refrigerant R32.







Lower Global Warming Potential (GWP) What is GWP?

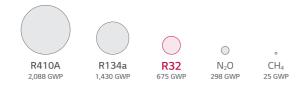
- Air cooled VRF Heat pump

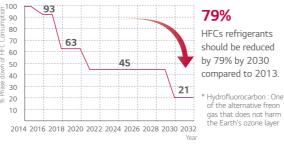
- Side discharge outdoor unit

- 9.0 ~ 15.5kW (based on cooling capacity)

- Both 1Ø, 220 ~ 240V, 50Hz and 3Ø, 380 ~ 415V, 50Hz

Global Warming Potential is a measure that allows for an accurate comparison of the environmental impact of different gases. GWP measures how much energy the emissions of 1 ton of a gas will absorb over a given period of time, relative to the emissions of 1 ton of carbon dioxide (CO_2) .





Cost Savings with R32

Higher Efficiency

Savings on cost of energy consumption.



Reduced Equipment Sizes

Savings on product purchase and labor cost for installation and maintenance.



Less Refrigerant Charge

Savings on cost of injecting & replacing refrigerant.



Reduced Refrigerant Volume

Savings on refrigerant purchase and recycling costs.

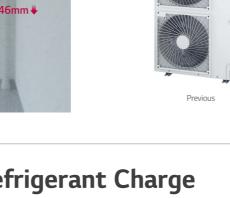


MHY

R32

RE

FRIGERANT

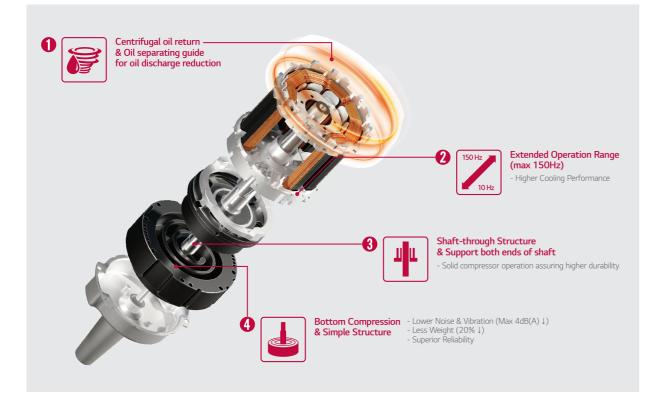






R1Compressor[™]

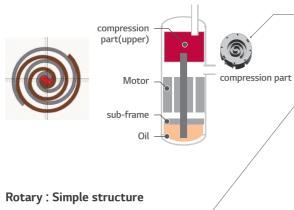
R1 Compressor is one that combines high-efficiency, low sound characteristics of the scroll and the simple compressing structure of the rotary compressor. This technology enables a highly efficient compact model.



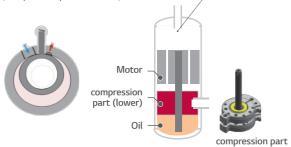
Conventional Compressor

Scroll : High efficiency / Low sound

(Continuous compression, but complex structure)



(Compression per 1 rotation)



Revolutionary Scroll : High efficiency / Stable & Simple Structure

Hybrid Scroll Shape (LG patent)* C * Patent registration number (S.Korea : 10-1059880, USA RE46106)

R1Compressor[™]

Motor Compression parts (upper \rightarrow lower)

Scroll penetrated by shaft \rightarrow remove tilting moment

Simple structure :

Oil

without sub-frame Oil feeding structure better than previous scroll



Less weight **(20%**↓**)**

Compact model (Size 40%↓, Weight 25%↓)



ZRUN030GSS0 / ZRUN040GSS0 ZRUN050GSS0 / ZRUN060GSS0





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	HP		3	4	5	6
Model Name			ZRUN030GSS0	ZRUN040GSS0	ZRUN050GSS0	ZRUN060GSS0
	Cooling (Rated)	kW	9.0	12.1	14.0	15.5
Capacity	Heating (Rated)	kW	9.0	12.1	14.0	15.5
	Heating (Max)	kW	10.0	14.2	16.0	18.0
	Cooling (Rated)	kW	2.81	4.26	4.90	5.64
Input	Heating (Rated)	kW	2.09	3.03	3.48	3.95
EER (Rated)			3.20	2.84	2.86	2.75
SEER			5.70	6.69	6.44	6.59
COP (Rated)			4.30	4.00	4.02	3.92
SCOP			3.90	3.87	3.81	4.07
	Color		Warm Gray	Warm Gray	Warm Gray	Warm Gray
Exterior	RAL Code		RAL 7044	RAL 7044	RAL 7044	RAL 7044
Heat Exchanger	Туре		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Туре		LG Inverter Scroll	LG Inverter Scroll	LG Inverter Scroll	LG Inverter Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
Compressor	Motor Output x Number	W x No.	3.198 x 1	3,198 x 1	3.198 x 1	3.198 x 1
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	сс	1,100	1,100	1,100	1,100
	Туре		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	124 x 1	124 x 1	198 x 1	198 x 1
Fan	Air Flow Rate (High)	m³/min x No.	60	60	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side	Side
Pipe	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
Connection	Gas Pipe	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)
Dimensions (W x	(H x D)	mm x No.	950 × 834 × 330	950 x 834 x 330	950 x 834 x 330	950 × 834 × 330
Dimensions (W x	(H x D) - Shipping	mm x No.	1,147 x 919 x 461			
Net Weight		kg x No.	64.7	64.7	71.6	71.6
Shipping Weight		kg x No.	73.7	73.7	79.6	79.6
Sound Pressure	Cooling	dB(A)	51	51	57	57
Level	Heating	dB(A)	55	55	60	60
Sound Power	Cooling	dB(A)	67	67	70	71
Level	Heating	dB(A)	70	71	74	75
Communication (Cable	mm ² x No. (VCTF-SB)	2C x 1.0 ~ 1.5			
	Refrigerant name		R32	R32	R32	R32
	Precharged Amount	kg	1.5	1.5	2.0	2.0
Refrigerant	t-CO ₂ eq		1.013	1.013	1.350	1.350
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz		220 - 230 - 240 , 1 , 50		
	num connectable indoor u		6	8	10	13

ZRUN030LSS0 / ZRUN040LSS0 ZRUN050LSS0 / ZRUN060LSS0



	HP		3	4	5	6
Model Name			ZRUN030LSS0	ZRUN040LSS0	ZRUN050LSS0	ZRUN060LSS0
Capacity	Cooling (Rated)	kW	9.0	12.1	14.0	15.5
	Heating (Rated)	kW	9.0	12.1	14.0	15.5
	Heating (Max)	kW	10.0	14.2	16.0	18.0
Input	Cooling (Rated)	kW	2.81	4.26	4.90	5.64
	Heating (Rated)	kW	2.09	3.03	3.48	3.95
EER (Rated)			3.20	2.84	2.86	2.75
SEER			5.70	6.69	6.44	6.59
COP (Rated)			4.30	4.00	4.02	3.92
SCOP			3.90	3.87	3.81	4.07
Exterior	Color		Warm Gray	Warm Gray	Warm Gray	Warm Gray
	RAL Code		RAL 7044	RAL 7044	RAL 7044	RAL 7044
Heat Exchanger	Туре		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Compressor	Туре		LG Inverter Scroll	LG Inverter Scroll	LG Inverter Scroll	LG Inverter Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
	Motor Output x Number	W x No.	3,198 x 1	3,198 x 1	3,198 x 1	3,198 x 1
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	сс	1,100	1,100	1,100	1,100
Fan	Туре		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	124 x 1	124 x 1	198 x 1	198 x 1
	Air Flow Rate (High)	m³/min x No.	60	60	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side	Side
Pipe Connection	Liquid Pipe	mm (inch)	Ø9.52(3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
	Gas Pipe	mm (inch)	Ø15.88(5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)
Dimensions (W x	(H x D)	mm x No.	950 × 834 × 330	950 x 834 x 330	950 x 834 x 330	950 × 834 × 330
Dimensions (W x	(H x D) - Shipping	mm x No.	1,147 x 919 x 461	1,147 x 919 x 461	1,147 x 919 x 461	1,147 x 919 x 46
Net Weight		kg x No.	64.7	64.7	71.6	71.6
Shipping Weight		kg x No.	73.7	73.7	79.6	79.6
Sound Pressure Level	Cooling	dB(A)	51	51	57	57
	Heating	dB(A)	55	55	60	60
Sound Power Level	Cooling	dB(A)	67	67	70	71
	Heating	dB(A)	70	71	74	75
Communication (Cable	mm ² x No. (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
Refrigerant	Refrigerant name		R32	R32	R32	R32
	Precharged Amount	kg	1.5	1.5	2.0	2.0
	t-CO ₂ eq		1.013	1.013	1.350	1.350
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansio Valve
Power Supply		Ø, V, Hz	380 - 400 - 415, 3, 50	380 - 400 - 415, 3, 50	380 - 400 - 415, 3, 50	380 - 400 - 415, 3,
Number of maximum connectable indoor units			6	8	10	13

Note 1. Due to our policy of innovation some specifications may be changed without notification. 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. Sound pressure level is measured on the rated condition in the anchoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard. Therefore, these values can be increased owing to ambient conditons during operation.

 Performances 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 Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m. 5. EUROVENT Test Condition

Performance values on the this PDB are based on Ceiling mounted cassette combination.
 Refer to EUROVENT web site(www.eurovent-certification.com) for other indoor unit

combination and more detail test conditions. 6. The maximum combination ratio is 160%. 7. This product contains Fluorinated greenhouse gases. (R32, GWP (Global warming potential) = 675)

Note 1. Due to our policy of innovation some specifications may be changed without notification. 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. 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 semi-anechoic rooms by ISO 9614 standard. Therefore, these values can be increased owing to ambient conditons during operation.



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 Performances 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 Length is 7.5m and difference of Elevation (Outdoor - Indoor Unit) is 0m. 5. EUROVENT Test Condition

DEVOVENT HEX CONDITION .
 Performance values on the this PDB are based on Ceiling mounted cassette combination.
 Refer to EUROVENT web site(www.eurovent-certification.com) for other indoor unit

combination and more detail test conditions.

Communication from the control of the control