

Intelligent, Innovative and Interactive with AI Technology

MULTI V™ i



Superior customer experience

MULTI V™ i

With the innovative AI technology, the MULTI V i AI engine has become intelligent, innovative, and interactive. It provides revolutionary energy-saving logic and offers solutions optimized for various environments with a more pleasant user experience and convenient usability.

What is the AI in MULTI V™ i?

Artificial Intelligence (AI) is computer-based technology to implement human intellectual abilities, such as thinking and learning. Using innovative AI technology, MULTI V i finds optimal solutions by itself.

Artificial Intelligence



Any technique mimicking the intelligence or behavioral pattern of human

Machine Learning



A technique by which a computer can "learn" from data, without using a complex set of different rules

Deep Learning



A technique to perform information processing based on artificial neural networks (multiple layers)



Highlight of MULTI V™ i

- INTELLIGENT
- INNOVATIVE
- INTERACTIVE
- ONLY & BEST

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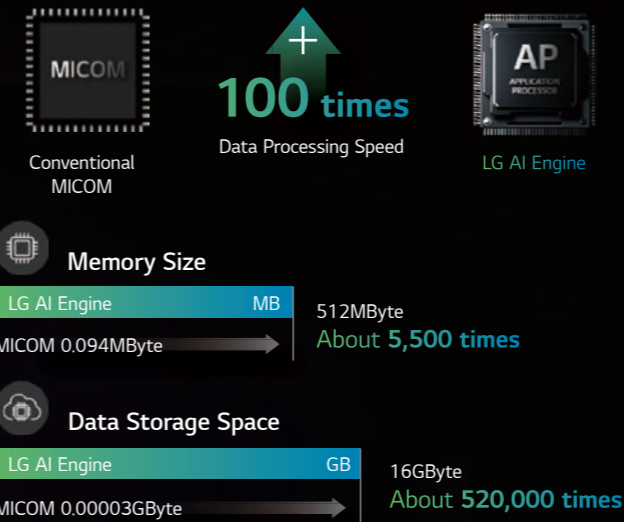
Highlight of **MULTI V™ i**

Efficiency Up with AI Engine

INTELLIGENT

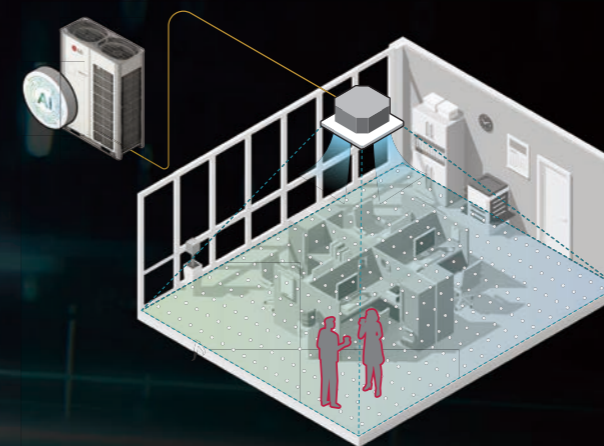
AI Engine

A central processing unit (AP) for mobile phones and computers is mounted. By Deep Learning and Machine Learning, it improves the performance of artificial intelligence by itself.

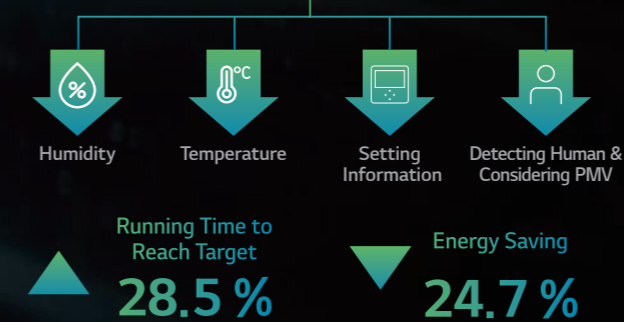


AI Smart Care

MULTI V *i* is capable of autonomous adaptation to various situations. When no one is in the space, power saving mode automatically turns on. MULTI V *i* is equipped with deep learning algorithms enabling it to self-learn.



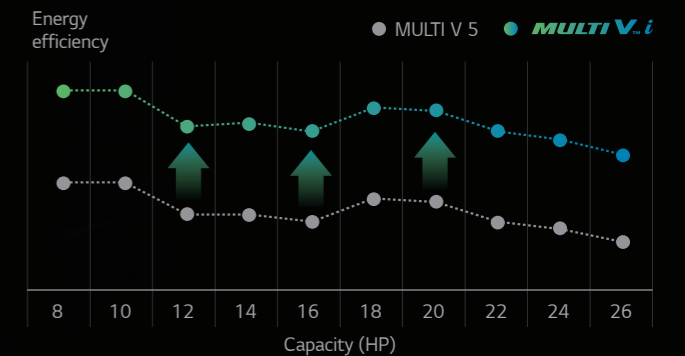
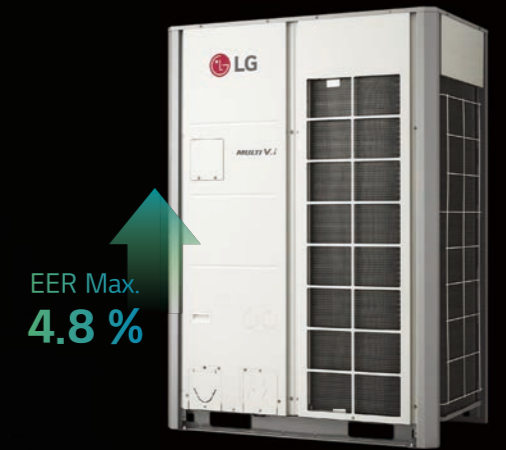
Power-saving control in situations with few people and low temperature and humidity



※ This is the result from internal test that is followed KS Test Standard, the result may be differed by applied model, local temperature, and environment.
 - Model : MULTI V *i* 57 kW
 - Test Standard : KS B ISO15042

Powerful Performance

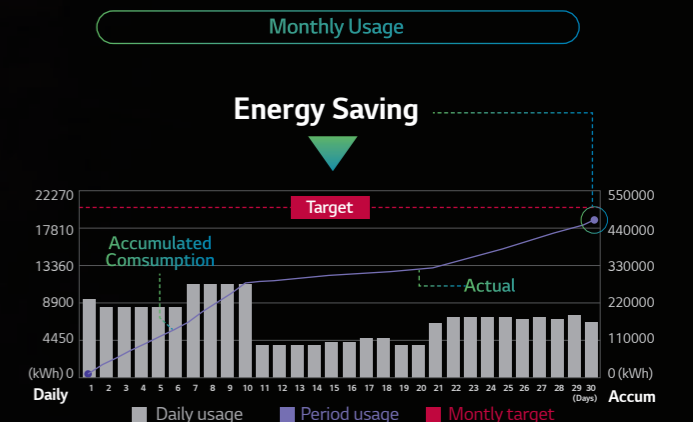
MULTI V 5 has very competitive efficiency levels in Asia, and MULTI V *i* is even able to exceed the levels of its predecessor.



※ Final specifications may change slightly, and the 4.8% improvement is not for entire line up.
 ※ The 4.8% improvement is a comparison between ARUN160LTE5 (MULTI V 5) and ARUN160LTE6 (MULTI V *i*).

AI Energy Management

MULTI V *i* is able to preset monthly energy usage and consume power according to the target that has been previously set. By Comparing and analyzing previous power consumption of the current month and planned daily energy usage, overuse of the HVAC system operational costs can be prevented by AI Energy management.



※ The above image is a graph for better understanding.
 ※ This function is available when indoor units operate in cooling or heating mode.

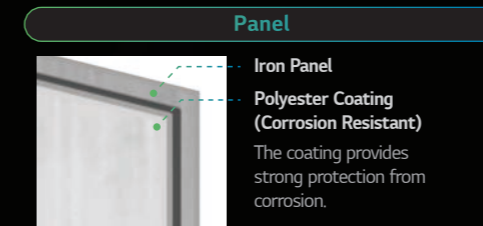
Highlight of **MULTI VTM i**

Innovative Performance Realization

INNOVATIVE

Corrosion Resistance

"Corrosion Resistance Black Fin" heat exchanger is designed for improved corrosion resistance. Body panels are also designed for improved corrosion resistance. 2,000 hours for body panels and 10,000 hours for heat exchanger make the product more reliable for customers.



Salt Spray Test (SST) × Process repeated
5 % Area of defects compared to initial state.



※ Verification of corrosion resistance performance
- Test Method B of ISO21207
- ASTM B117 / (2,000 hours) (Last updated : Jul. 2022)

Test process is conducted according to ASTM B117.
1) Salty water concentration : NaCl aqueous solution (5 %)

Salt Spray Test (SST) × Process repeated
5 % Area of defects compared to initial state.



※ Verification of corrosion resistance performance
- Test Method B of ISO21207
- ASTM B117 / ISO 9227 (5,000 hours → 10,000 hrs.) (Last updated : Dec. 2020)

Test process is conducted according to ASTM B117.
1) Salty water concentration : NaCl aqueous solution (5 %)

※ The product is not fully anticorrosive. To install near the sea, additional measures can be required.

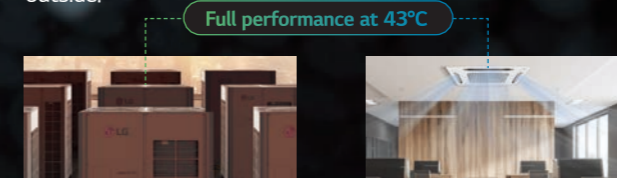
Maximum 26 HP for a Single Outdoor Unit

LG MULTI V i saves space, time, and installation costs by offering a larger capacity single outdoor unit.



Powerful Cooling Performance

Reliable cooling operation up to 52°C, with full performance at 43°C. End users are able to enjoy comfortable indoor environment even in case of extreme weather conditions outside.



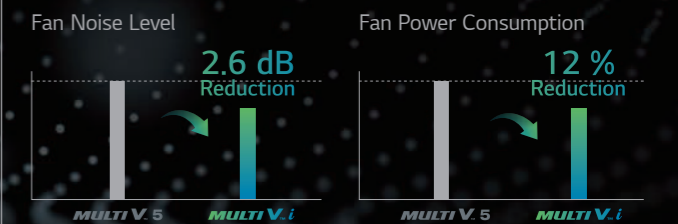
※ Final specifications may change slightly.

Powerful & Stable Cooling Performance

	MULTI Vⁱ	MULTI V.5
Cooling Operation Range	-15 ~ 52°C	-15 ~ 48°C
Performance at 43°C	Full	92 %

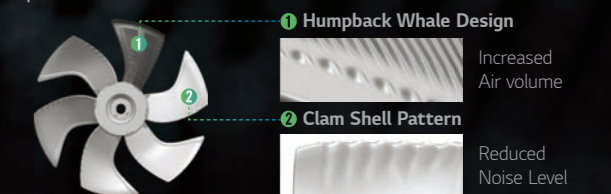
Newly Designed Compact Fan

The design of a new biomimetic fan was inspired from nature. It brings more air volume and less noise with the same air flow rate compared to the conventional system.



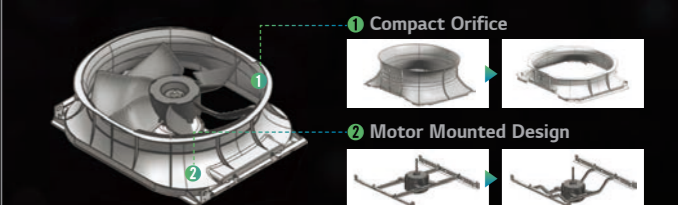
Designed Biomimetic Fan

The new biomimetic fan has 6 blades that can reduce noise level and power consumption.



Compact Aero-Design

With an optimal air flow, the noise level and power consumption is reduced.



Highlight of **MULTI V™ i**

Upgrading & Evolutionary System According to Customer

INTERACTIVE



Flexible Outdoor Units Combination

Flexible combination can contribute to realize faster delivery and installation. It provides more options for designing according to customers' preferences.

Applicable Free Combination

2 Units : 28~36 HP
3 Units : 50~56 HP
4 Units : 70~76 HP

Standard Combination Flexible Combination Flexible Combination

18 HP 12 HP 20 HP 10 HP 16 HP 14 HP

For Customer
Faster Delivery & Installation

For Consultant
Flexible Design for Higher Efficiency

※ More information can be checked in the LATS tool.

Noise Target Control

The outdoor unit's noise can be restricted by the set sound level in advance, allowing customers to enjoy comfortable conditions while avoiding disturbing their neighbors and complying with the local noise regulations.

Controlled by a Remote Controller

Available Setting
50 / 55 / 60 / 65 / 70 dB

Noise Level

Function OFF Function ON

Background Noise

Product Noise

65 dB
60 dB
55 dB

Time

Weather Information Interlocking Control

LG MULTI V i provides more comfort and convenience by checking ambient weather conditions.

Severe fine-dust conditions outside Pleasant indoors, as always

AccuWeather

ThinQ Sever Wi-Fi Modem

Remote controller displaying outdoor and indoor conditions

Automatic Air cleaning

Hot and humid outside, with heavy rain Pleasant indoors, as always

Humidity Temperature

Automatic Comfort / Energy Saving Mode

AI Smart Diagnosis

AI Smart Diagnosis saves service time and provides for reliable LG MULTI V *i* operation by automatically analyzing and visualizing the product's performance status.



※ UI may be changed without notification.

Auto Tuning System

LG MULTI V *i* provides a new experience to customers with faster and easier installation and service with AI engine which is automatically upgradable when the compressor and motor are replaced.



Large Capacity Black Box

Operation data can be saved for up to 6 months before the system failure, contributing to quick service of the product.



※ UI may be changed without notification.

Remote Upgrade System

Like a smart phone, LG MULTI V *i* upgrades itself remotely! You can opt for the latest version of software immediately without on-site service.



※ LG BECON Cloud is needed.

Highlight of **MULTI V_i**

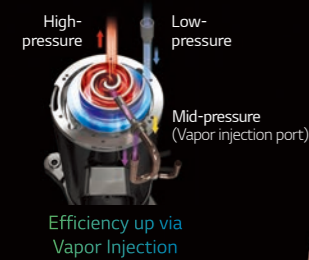
Advantages of 6th Generation Compressor

ONLY & BEST

01 Increased Performance

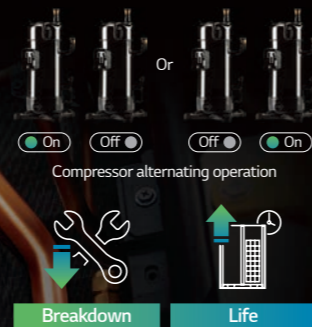
Wide operating range from 10Hz to 165Hz

- Minimum operating temperature → Enhanced heating capacity
- Vapor Injection → Improved efficiency



02 Compressor Balancing Control

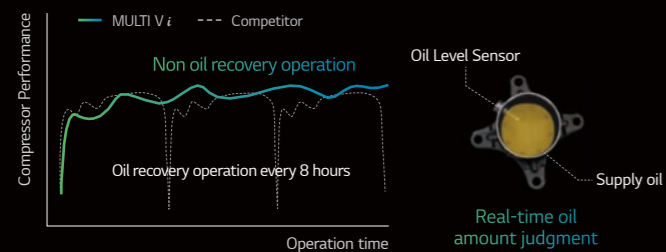
Minimize breakdowns by managing the accumulated operating time of the compressor



03 Smart Oil Management

Oil sensor that allows oil balancing and oil return

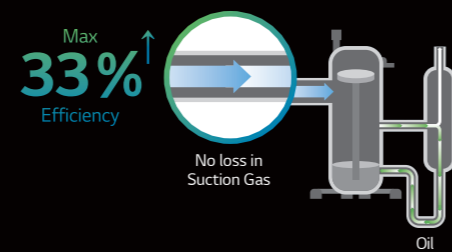
- Reduce supply oil time within 120s → 10s
- Reducing the number of oil return operations → continuous heating



04 HiPOR™ (High Pressure Oil Return)

Maximized reliability & Efficiency of compressor

- Minimize energy losses → Efficiency up
- Return directly oil into the compressor



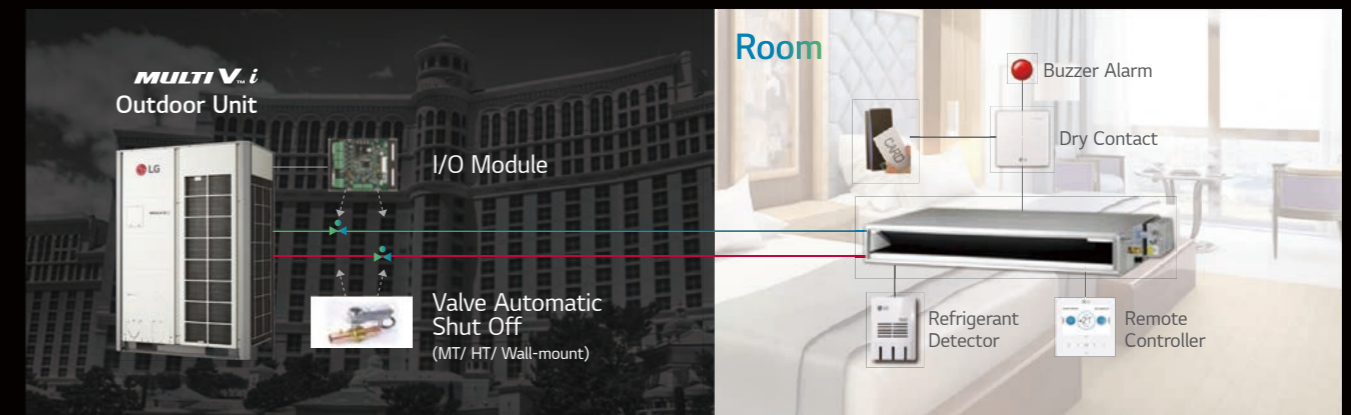
Air Purification Solution

Air purification with cutting edge total HVAC solution is available to serve customer satisfaction.



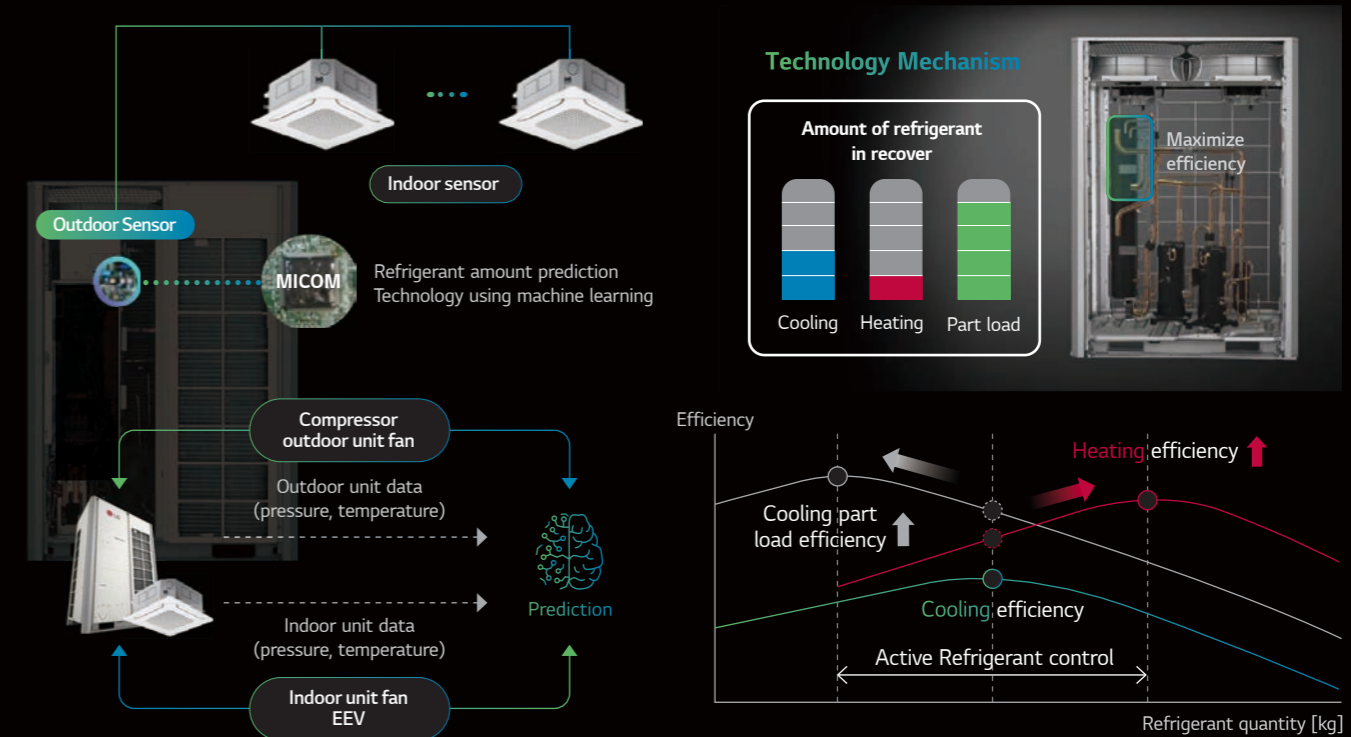
Safety Level Improvement with Refrigerant Leak Sensor

Customers can use MULTI V_i with LG leakage detector to confidently keep the indoor space safe.




Active Refrigerant Control


Widens the ambient temperature range at which stable operation & Sustaining most efficient operation occurs.




OUTDOOR UNITS




8 - 12 HP
380V, 3Ø




14 - 26 HP
380V, 3Ø




28 - 48 HP
380V, 3Ø




50 - 72 HP
380V, 3Ø










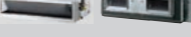

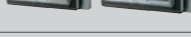














74 - 96 HP
380V, 3Ø





INDOOR UNITS

		kW																
		1.5	2.2	2.8	3.6	4.5	5.6	6.2	7.1	8.2	9.0	10.6	12.3	14.1	15.8	22.4	28.0	
		5k	7k	9k	12k	15k	18k	21k	24k	28k	30k	36k	42k	48k	54k	76k	96k	
4 th generation Wall Mounted	Artcool Gallery 		●	●	●													
	Artcool Mirror 	●	●	●	●	●	●		●									
	Standard 	●	●	●	●	●	●		●		●	●						
4 th generation Ceiling Mounted Cassette	4 Way Cassette (570 x 570) 	●	●	●	●	●	●	●										
	4 Way Cassette (840 x 840) 								●	●	●	●	●	●				
	4 Way Cassette High Sensible (840 x 840) 	●	●	●	●	●	●		●	●		●	●	●				
	Round Ceiling Cassette 								●			●		●				
	2 Way Cassette 			●	●		●		●									
4 th generation Ceiling Concealed Duct	1 Way Cassette 		●	●	●		●		●									
	Mid / High Statics 		●	●	●	●	●		●	●		●	●	●	●	●	●	
	Low Static (Slim) 	●	●	●	●	●	●	●		●								
4 th generation Fresh Air Intake	High Sensible 		●	●	●	●	●		●	●		●	●					
	4 th generation Fresh Air Intake 															●	●	
	4 th generation Ceiling & Floor Convertible 			●	●													
	4 th generation Ceiling Suspended 								●	●		●	●					
4 th generation Floor Standing	4 th generation Console 		●	●	●	●												
	Floor Standing with Case 		●	●	●	●	●		●									
	Floor Standing without Case 		●	●	●	●	●		●									
4 th generation HYDRO KIT	Floor Standing (PAC) 													●			●	
	Wall-Mounted 								●	●	●							
	Low Temperature 													●			●	
4 th generation Energy Recovery Ventilator with DX Coil	High Temperature 												●			●		
	with Humidifier 					●			●	●	●							
	without Humidifier 					●			●	●	●							

CONTROL SOLUTIONS

Individual Control		Centralized Control			
Wired Remote Controller		Wireless Remote Controller	Display	Platform	Gateway
Standard	Simple				
Standard III (White) PREMTB100 PQRCVCL0QW	PWLSSB21H (Heat Pump) PWLSSB21C (Cooling Only)	AC Ez PQCSZ250S0 (Indoor Unit ~ 32)	ACP 5 PACP5A000 (Indoor Unit ~ 256) BACnet IP / Modbus TCP * -64, Lonworks with U60FT	Modbus RTU gateway PMBUSB00A (Indoor Unit ~ 64)	
Standard III (Black) PREMTBB10 PQRCVCLOQ	Wi-Fi Modem For Indoor Unit PWFMD200	AC Ez Touch PACEZA000 (Indoor Unit ~ 64)	AC Manager 5 PACM5A000 (Indoor Unit ~ 8,192)	KNX gateway INKNXLGE0160036 (Indoor Unit ~16) INKNXLGE0640036 (Indoor Unit ~64)	
Standard II (White) PREMTB001 PQRCHCA0QW (Simple for Hotel)		AC Smart 5 PACSSA000 (Indoor Unit ~ 128) BACnet IP / Modbus TCP		INKNXLGE001R000 (For Indoor Unit)	
Standard II (Black) PREMTBB01 PQRCHCA0Q (Simple for Hotel)				PI485 For Indoor Unit (ERV) PHNFP14A0	
Premium PREMTA000 PREMTA000A PREMTA000B				For AVHP PP485A00T For Outdoor Unit (SINGLE / MULTI / THERMA V) PMNFP14A1	

Centralized Control	Integration Device			
Facility Integrator	Indoor Unit		Outdoor Unit	AHU Kit
	Dry Contact	Control Accessory		
PDI (Power Distribution Indicator) Premium (8 ports) PQNUD1S40 Standard (2 ports) PPWRDB000	Simple Dry Contact PDRYCB000	PZCWRCG3	IO Module (Input / Output Module) For MULTI V IV, 5, & PVDSMN000	Communication Kit Return / Room Air Control PAHCMR000
ACS IO Module (Input / Output Module) PEXPMB000	Dry Contact for Thermostat PDRYCB320	Remote Temperature Sensor PQRSTA0	Variable Water Flow Control Kit For MULTI V WATER 5 PWFCKN000	Discharge / Supply Air Control PAHCMS000
ACU IO Module UIO PEXPMB300	2 Points Dry Contact (For Setback) PDRYCB400	Zone Controller 4 Zones by thermostat ABZCA	Low Ambient Kit For MULTI V IV, 5, & PRVC2	Controller Module Main Module PAHCM000
UO PEXPMB200	For Modbus PDRYCB500 / PDRYCB510 (w/o case)	Multi-tenant Power Module PINPMB001	Cool / Heat Selector PRDSBM	Communication Module PAHCMC000
UI PEXPMB100				Control Kit PAHCNM000 (Max. 3 Outdoor Units)
				Water Communication Module PAHCMW000
			EEV Kit (Electronic Expansion Valve) PRLK048A0 (~ 28 kW) PRLK096A0 (~ 56 kW)	PRLK396A0 (~ 112 kW) PRLK594A0 (~ 168kW)

SPECIFICATIONS

ARUN080LTE6 / ARUN100LTE6 / ARUN120LTE6 /
ARUN140LTE6 / ARUN160LTE6



HP			8	10	12	14	16
Model Name	Independent Unit		ARUN080LTE6	ARUN100LTE6	ARUN120LTE6	ARUN140LTE6	ARUN160LTE6
Capacity	Cooling (Rated)	kW	22.4	28.0	33.6	39.2	44.8
		Btu/h	76,400	95,500	114,600	133,800	152,900
	Heating (Rated)	kW	25.2	31.5	37.8	44.1	50.4
		Btu/h	86,000	107,500	129,000	150,500	172,000
Input	Cooling (Rated)	kW	4.39	5.49	7.55	8.71	10.30
	Heating (Rated)	kW	4.67	5.63	7.89	9.61	11.22
EER (Rated)			5.10	5.10	4.45	4.50	4.35
COP (Rated)			5.40	5.60	4.79	4.59	4.49
Power Fatcor	Rated		0.93	0.93	0.93	0.93	0.93
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL Code		RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
Compressor	Motor Outout x Number	W x No.	5,300 x 1	5,300 x 1	5,300 x 1	5,300 x 1	5,300 x 1
	Type		Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan
Fan	Motor Outout x Number	W x No.	1,200 x 1	1,200 x 1	1,200 x 1	900 x 2	900 x 2
	Air Flow Rage (High)	m ³ /Min	220 x 1	220 x 1	220 x 1	320 x 1	320 x 1
		Ft ² /Min	7,769 x 1	7,769 x 1	7,769 x 1	11,301 x 1	11,301 x 1
	External Static Pressure (Max.Pa)			80	80	80	80
	Drive			DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP	TOP
Pipe	Liquid Pipe	mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)
Connections	Gas Pipe	mm (inch)	19.05 (3/4)	22.2 (7/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)
Dimensions (W x H x D)	mm		(930 x 1,745 x 760) x 1	(930 x 1,745 x 760) x 1	(930 x 1,745 x 760) x 1	(1,240 x 1,745 x 760) x 1	(1,240 x 1,745 x 760) x 1
Net Weight	kg		186 x 1	186 x 1	186 x 1	220 x 1	220 x 1
	lbs		414 x 1	414 x 1	414 x 1	485 x 1	485 x 1
Sound Pressure	Cooling (Rated)	dB (A)	57	57.5	59	60	60.5
	Heating (Rated)	dB (A)	58	58.5	60	61	61.5
Sound Power	Cooling (Rated)	dB (A)	78	78	79	82	83
	Heating (Rated)	dB (A)	78	79	80	83	85
Communication Cable	mm ² x No.		2C x 1.0 - 1.5	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	Name		R410A	R410A	R410A	R410A	R410A
	Precharged Amount	kg	8.0	8.0	8.0	11.0	11.0
		lbs	17.6	17.6	17.6	24.3	24.3
	t-Co ₂ eq		16.7	16.7	16.7	23.0	23.0
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply			380 - 415, 3, 50	380 - 415, 3, 50	380 - 415, 3, 50	380 - 415, 3, 50	380 - 415, 3, 50
			380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of Maximum Connectable Indoor Units			13 (20)	16 (25)	20 (30)	23 (35)	26 (40)

※ Some specifications may change due to on-going development.

ARUN180LTE6 / ARUN200LTE6 / ARUN220LTE6 /
ARUN240LTE6 / ARUN260LTE6



HP			18	20	22	24	26
Model Name	Independent Unit		ARUN180LTE6	ARUN200LTE6	ARUN220LTE6	ARUN240LTE6	ARUN260LTE6
Capacity	Cooling (Rated)	kW	50.4	56.0	61.6	67.2	72.8
		Btu/h	172,000	191,000	210,200	229,300	248,400
	Heating (Rated)	kW	56.7	63.0	69.3	74.3	74.3
		Btu/h	193,500	215,000	236,500	253,400	253,400
Input	Cooling (Rated)	kW	10.50	11.79	14.16	16.00	18.67
	Heating (Rated)	kW	11.84	15.07	17.11	18.67	19.20
EER (Rated)			4.80	4.75	4.35	4.20	3.90
COP (Rated)			4.79	4.18	4.05	3.98	3.87
Power Fatcor	Rated		0.93	0.93	0.93	0.93	0.93
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL Code		RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037	RAL 7038 / RAL 7037
Compressor	Motor Outout x Number	W x No.	5,300 x 2	5,300 x 2	5,300 x 2	5,300 x 2	5,300 x 2
	Type		Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan
Fan	Motor Outout x Number	W x No.	900 x 2	900 x 2	900 x 2	900 x 2	900 x 2
	Air Flow Rage (High)	m ³ /Min	320 x 1	320 x 1	320 x 1	320 x 1	320 x 1
		Ft ² /Min	11,301 x 1	11,301 x 1	11,301 x 1	11,301 x 1	11,301 x 1
	External Static Pressure (Max.Pa)			80	80	80	80
	Drive			DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP	TOP
Pipe	Liquid Pipe	mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)
Connections	Gas Pipe	mm (inch)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	34.9 (1-3/8)	34.9 (1-3/8)
Dimensions (W x H x D)	mm		(1,240 x 1,745 x 760) x 1	(1,240 x 1,745 x 760) x 1	(1,240 x 1,745 x 760) x 1	(1,240 x 1,745 x 760) x 1	(1,240 x 1,745 x 760) x 1
Net Weight	kg		260 x 1	260 x 1	276 x 1	276 x 1	276 x 1
	lbs		573 x 1	604 x 1	604 x 1	608 x 1	608 x 1
Sound Pressure	Cooling (Rated)	dB (A)	61	62	64.5	65	65
	Heating (Rated)	dB (A)	62	63.5	64.5	66	66
Sound Power	Cooling (Rated)	dB (A)	85	86	86	88	88
	Heating (Rated)	dB (A)	86	87	88	89	89
Communication Cable	mm ² x No.		2C x 1.0 - 1.5	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	Name		R410A	R410A	R410A	R410A	R410A
	Precharged Amount	kg	13.0	13.0	16.0	16.0	16.0
		lbs	28.7	28.7	35.3	35.3	35.3
	t-Co ₂ eq		27.1	27.1	33.4	33.4	33.4
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply			380 - 415, 3, 50	380 - 415, 3, 50	380 - 415, 3, 50	380 - 415, 3, 50	380 - 415, 3, 50
			380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60
Number of Maximum Connectable Indoor Units			29 (45)	29 (45)	35 (56)	39 (61)	42 (64)

※ Some specifications may change due to on-going development.