

Superior customer experience

MULTI V_{IM} 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 Al in **MULTI V**_m 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 ► Line up Specifications 18

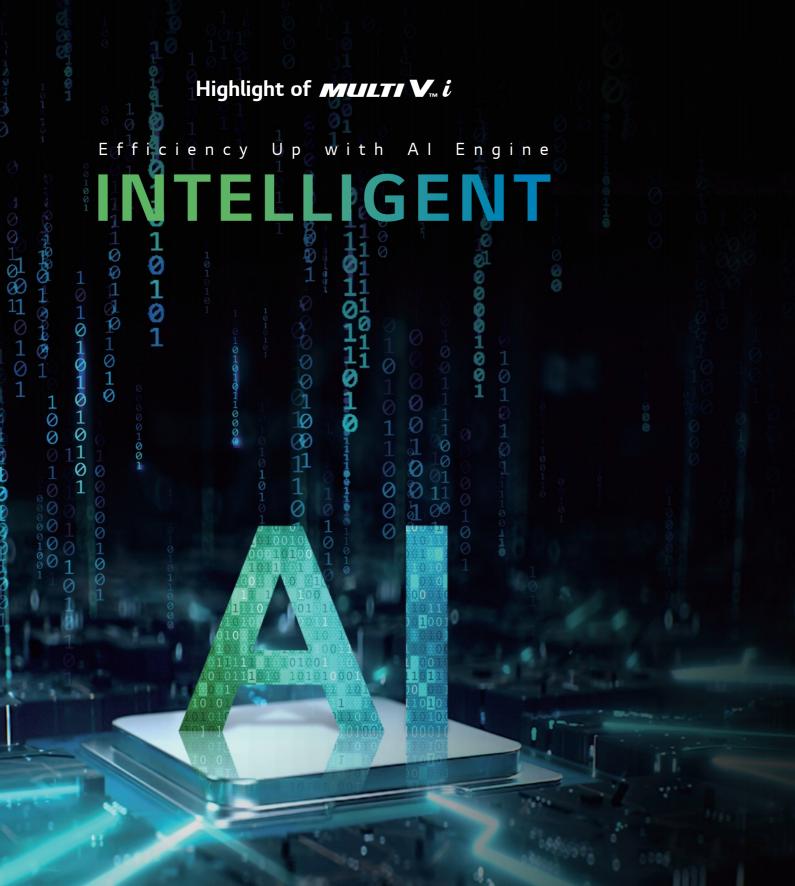
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Al Engine

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.



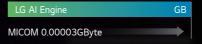








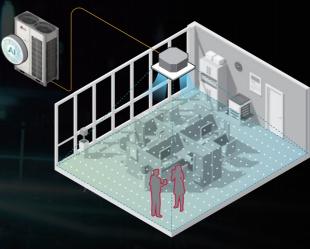




About **520,000 times**

Al 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



Running time to 28.5%



Energy Saving

Powerful Performance

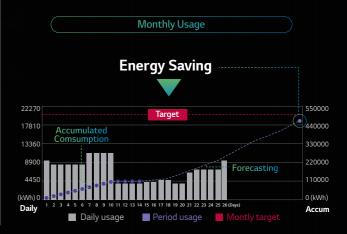
MULTI V 5 has very competitive efficiency levels in EU, and MULTI V i is even able to exceed the levels of its predecessor.





Al 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 Al Energy management.



Highlight of MULTI V. i

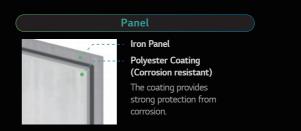
Innovative Performance Realization

INNOVATIVE

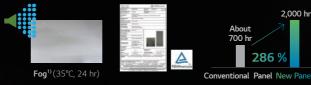


Corrosion Resistance

"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.



- Test Method B of ISO21207 ASTM B117 / (2,000 hours)(Last updated : Jul. 2022)
- 2.000 hr

Hydrophilic Film (Water Flow) The Hydrophilic coating minimizes moisture buildup on the fin. Complex Resin (Corrosion Resistant) The Black coating provides strong protection from corrosion.

Salt Spray Test (SST) × Process repeated

5% Area of defects compared to initial state.



- ASTM B117 / ISO 9227 (5,000 hours →10,000 hrs.)

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

Maximum 26HP 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.



	,							
	MULTI V i	<i>мицті</i> V . 5						
Cooling Operation Range	-15 ~ 52℃	-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



Compact Aero-Design

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



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







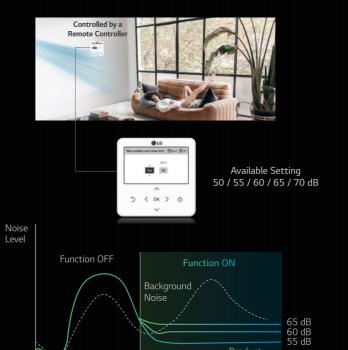
For Customer ster Delivery & Installation



The UXC chassis models are not applicable to free combination.
 The 26 HP model of UXC chassis cannot be combined with other models.
 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.



Weather Information Interlocking Control

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



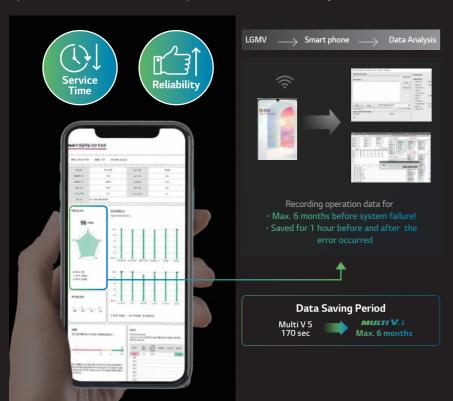
Al Smart Diagnosis

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



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.





Mobile

 \divideontimes 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.



Automatically recognizing when the compressor is replaced with the latest version







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.





Highlight of MULTI V... i

Advantages of 6th Generation Compressor

ONLY & BEST

01 Increased performance

Wide operating range from 10Hz to 165Hz

02 Compressor balancing control

Minimize breakdowns by managing the accumulated operating time of the compressor

Minimum operating temperature → Enhanced heating capacity



03 Smart Oil Management

04 HiPOR[™] (High Pressure Oil Return)

Oil sensor that allows oil balancing and oil return

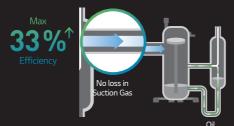
- Reduce supply oil time within 120s \rightarrow **10s**
- Reducing the number of oil return operations→ continuous heating



Maximized reliability & Efficiency of compressor

• Minimize energy losses → Efficiency up

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



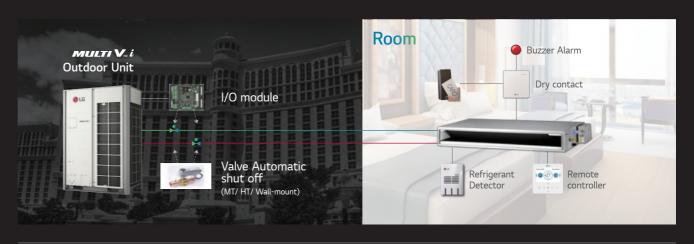
Air Purification Solution

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



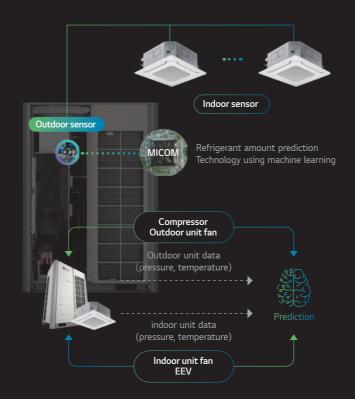
Safety Level Improvement with Refrigerant Leak Sensor

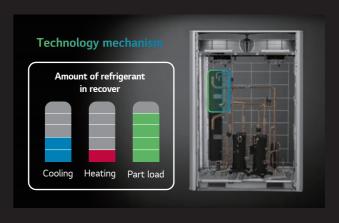
Customers can use MULTI V i with LG leakage detector to confidently keep the indoor space safe.

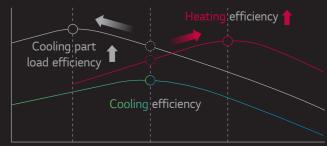


Active Refrigerant Control

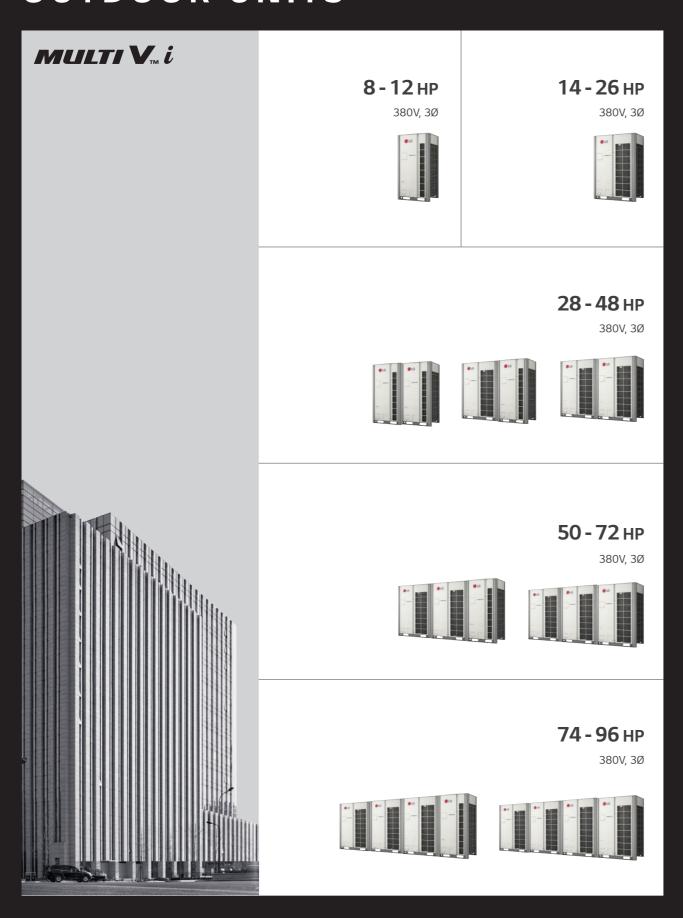
Widens the ambient temperature range at which stable operation & Sustaining most efficient operation occurs.







OUTDOOR UNITS

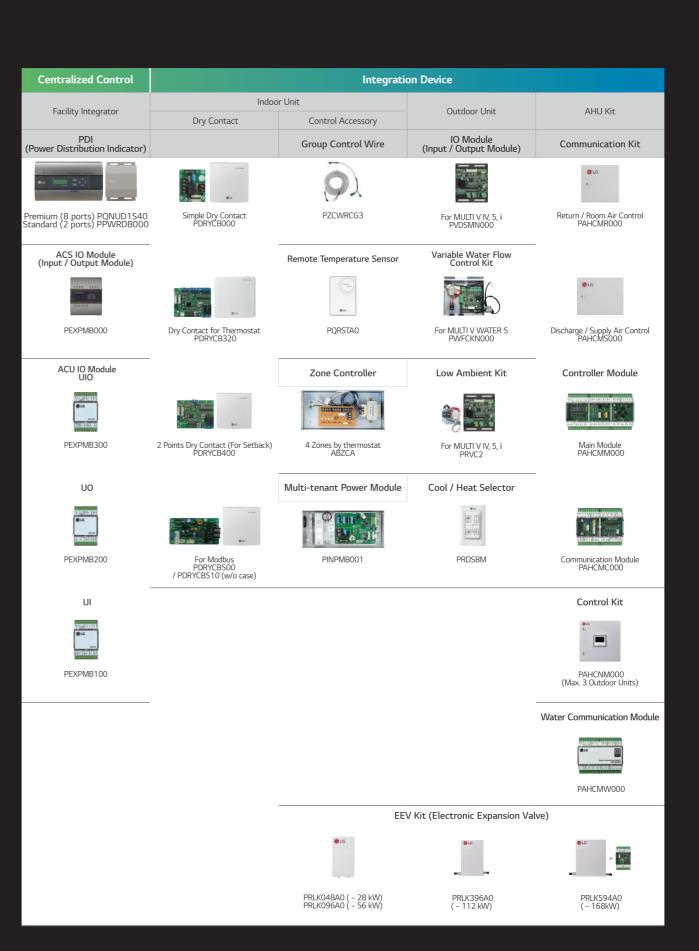


INDOOR UNITS

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	
Nov.			5k	7k	9k	12k	15k	18k		 	28k	30k	36k	42k		54k		+
	Artcool Gallery			•	•	•												
4 th generation Wall Mounted	Artcool Mirror		•	•	•	•	•	•		•								
	Standard		•	•	•	•	•	•		•		•	•					
	4 Way Cassette (570 x 570)		•	•	•	•	•	•	•									
	4 Way Cassette (840 x 840)									•	•	•	•	•	•			
Ceiling	4 Way Cassette High Sensible (840 x 840)		•	•	•	•	•	•		•	•		•	•	•			
Mounted Cassette	Round Ceiling Cassette									•			•		•			
	2 Way Cassette				•	•		•		•								
	1 Way Cassette			•	•	•		•		•								
	Mid / High Statics			•	•	•	•	•		•	•		•	•	•	•	•	•
4 th generation - Ceiling Concealed	Low Static (Slim)		•	•	•	•	•	•	•	•								
Duct	High Sensible			•	•	•	•	•		•	•		•	•	•			
4 th generation Fresh Air Intake	2																•	•
4 th generation Ceiling & Floor	Convertible				•	•												
4 th generation Ceiling Suspend	ded							•		•			•		•			
4 th generation Console				•	•	•	•											
4 th generation Floor	Floor Standing with Case			•	•	•	•	•		•								
Standing	Floor Standing without Case			•	•	•	•	•		•								
Floor Standing	(PAC)														•			•
	Wall-Mounted	Ē						•		•		•						
4 th generation HYDRO KIT	Low Temperature													•				•
	High Temperature	● LE												•			•	
Energy	with Humidifier						•			•		•						
Recovery Ventilator	without Humidifier						•			•		•						

CONTROL SOLUTIONS

	Individual Control			Centralized Control	
Wired Remo	te Controller Simple	Wireless Remote Controller	Display	Platform	Gateway
Standard III (White)	'		AC Ez	ACP 5	Modbus RTU gateway
○ ② · · · · · · · · · · · · · · · · · ·		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		*** **********************************	(2) (3) (2-1-1-1) (1) (2-1-1-1)
PREMTB100	PQRCVCL0QW	PWLSSB21H (Heat Pump) PWLSSB21C (Cooling Only)	PQCSZ250S0 (Indoor Unit ~ 32)	PACP5A000 (Indoor Unit ~ 256) BACnet IP / Modbus TCP * -64, Lonworks with U60FT	PMBUSB00A (Indoor Unit - 64)
Standard III (Black)		Wi-Fi Modem	AC Ez Touch	AC Manager 5	KNX gateway
• ②• •		T Disk		•• []	Integis Ulito
PREMTBB10	PQRCVCLOQ	For Indoor Unit PWFMDD200	PACEZA000 (Indoor Unit ~ 64)	PACM5A000 (Indoor Unit ~ 8,192)	INKNXLGE0160036 (Indoor Unit ~16) INKNXLGE0640036 (Indoor Unit ~64)
Standard II (White)			AC Smart 5		ea 1.
					Integis
PREMTB001	PQRCHCA0QW (Simple for Hotel)		PACS5A000 (Indoor Unit ~ 128) BACnet IP / Modbus TCP		INKNXLGE001R000 (For Indoor Unit)
Standard II (Black)				-	PI485
PREMTBB01	PORCHCAOQ				For Indoor Unit (ERV) PHINFP14A0
	(Simple for Hotel)	-			PHINTP14AU
Premium					
253 3 5 5 5					
PREMTA000 PREMTA000A PREMTA000B					For AWHP PP485A00T
					For Outdoor Unit (SINGLE / MULT) / THERMA V) PMULT) / THERMA V)



SPECIFICATIONS

ARUN080LTE6 / ARUN100LTE6 / ARUN120LTE6 / ARUN140LTE6 / ARUN160LTE6 /





	HP		8	10	12	14	16	
Model Name	Independent unit		ARUN080LTE6	ARUN100LTE6	ARUN120LTE6	ARUN140LTE6	ARUN160LTE6	
	Cooling (Rated)		22.4	28.0	33.6	39.2	44.8	
Cit	Cooling (Rated)	Btu/h	76,400	95,500	114,600	133,800	152,900	
Capacity	Heating (Dated)	kW	25.2	31.5	37.8	44.1	50.4	
	Heating (Rated)	Btu/h	86,000	107,500	129,000	150,500	172,000	
lanut	Cooling (Rated)	kW	4.39	5.49	7.55	8.71	10.30	
Input	Heating (Rated)	kW	4.67	5.63	7.89	9.61	11.22	
EER (Rated)	(Rated)		5.10	5.10	4.45	4.50	4.35	
COP (Rated)	P (Rated)		5.40	5.60	4.79	4.59	4.49	
Power Fatcor	atcor Rated		0.93	0.93	0.93	0.93	0.93	
Exterior	Color		Morning Gray / Dawn Gray					
Exterior	RAL code		RAL 7038 / RAL 7037					
Compressor	Motor Outout x Number	W x No.	5,300 × 1	5,300 × 1	5,300 × 1	5,300 × 1	5,300 × 1	
	Туре		Propeller Fan					
	Motor Outout x Number	W x No.	1,200 × 1	1,200 × 1	1,200 × 1	900 × 2	900 × 2	
-	Air Flow Rage (High) m ³ /Min Ft ² /Min		220 × 1	220 × 1	220 × 1	320 × 1	320 × 1	
Fan			7,769 × 1	7,769 × 1	7,769 × 1	11,301 × 1	11,301 × 1	
	External Static Pressure (Max.Pa)		80	80	80	80	80	
	Drive		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 × 1,745 × 760) × 1	(930 × 1,745 × 760) × 1	(930 × 1,745 × 760) × 1	(1,240 × 1,745 × 760) × 1	(1,240 × 1,745 × 760) × 1	
Net Weight		kg	186 × 1	186 × 1	186 × 1	220 × 1	220 × 1	
. see treigne		lbs	414 × 1	414 × 1	414 × 1	485 × 1	485 × 1	
Sound Pressure	Cooling (Rated)	dB (A)	57	57.5	59	60	60.5	
Juliu i lessure	Heating (Rated)	dB (A)	58	58.5	60	61	61.5	
Sound Power	Cooling (Rated)	dB (A)	78	78	79	82	83	
Sana i Owei	Heating (Rated)	dB (A)	78	79	80	83	85	
Communication Ca	able	mm ² x No.	2C × 1.0 ~ 1.5					
Name			R410A	R410A	R410A	R410A	R410A	
	Precharged amount lbs		8.0	8.0	8.0	11.0	11.0	
Refrigerant			17.6	17.6	17.6	24.3	24.3	
gerane .	t-Co ₂ .eq		16.7	16.7	16.7	23.0	23.0	
	Control		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)		

ARUN180LTE6 / ARUN200LTE6 / ARUN220LTE6 / ARUN240LTE6 / ARUN260LTE6



	HP		18	20	22	24	26	
Model Name	Independent unit		ARUN180LTE6	ARUN200LTE6	ARUN220LTE6	ARUN240LTE6	ARUN260LTE6	
	Cli (D-t1)	kW	50.4	56.0	61.6	67.2	72.8	
Capacity	Cooling (Rated)	Btu/h	172,000	191,000	210,200	229,300	248,400	
	11 (D-+	kW	56.7	63.0	69.3	74.3	74.3	
	Heating (Rated)	Btu/h	193,500	215,000	236,500	253,400	253,400	
la a contract	Cooling (Rated)	kW	10.5	11.79	14.16	16.00	18.67	
Input	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	cor Rated		0.93	0.93	0.93	0.93	0.93	
Formation	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	
Exterior	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 × 2	5,300 × 2	5,300 × 2	5,300 × 2	5,300 × 2	
	Туре		Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan	
Fan	Motor Outout x Number	W x No.	900 × 2	900 × 2	900 × 2	900 × 2	900 × 2	
	Air Flow Page (High)	m ³ /Min	320 × 1	320 × 1	320 × 1	320 × 1	320 × 1	
	Air Flow Rage (High)	Ft ² /Min	11,301 × 1	11,301 × 1	11,301 × 1	11,301 × 1	11,301 × 1	
	External Static Pressure (Max.Pa)		80	80	80	80	80	
	Drive		DC INVERTER	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 × 1,745 × 760) × 1	(1,240 × 1,745 × 760) × 1	(1,240 × 1,745 × 760) × 1	(1,240 × 1,745 × 760) × 1	(1,240 × 1,745 × 760) × 1	
Not Weight		kg	260 × 1	260 × 1	276 × 1	276 × 1	276 × 1	
Net Weight		lbs	573 × 1	604 × 1	604 × 1	608 × 1	608 × 1	
Sound Pressure	Cooling (Rated)	dB (A)	61	62	64.5	65	65	
Sound Pressure	Heating (Rated)	dB (A)	62	63.5	64.5	66	66	
Sound Power	Cooling (Rated)	dB (A)	85	86	86	88	88	
Soulid Fower	Heating (Rated)	dB (A)	86	87	88	89	89	
Communication Ca	mmunication Cable mm ² x No.		2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	
	Name		R410A	R410A	R410A	R410A	R410A	
	Precharged amount	kg	13.0	13.0	16.0	16.0	16.0	
Refrigerant	Precharged amount	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		
Tower Supply			380, 3, 60	380, 3, 60 380, 3, 60 380, 3, 6		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

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