MULTI V™ 5

Highlight

- Air cooled VRF Heat Pump & Heat Recovery
- 22.4kW ~ 268.8kW (Cooling capacity based)
- 3Ø, 380 ~ 415V, 50Hz
- Top discharge outdoor unit
- Ability to function as Heat Pump or Heat Recovery

Energy savings

Reliability

Low noise

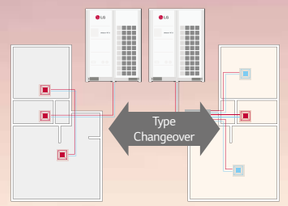
Advanced performance

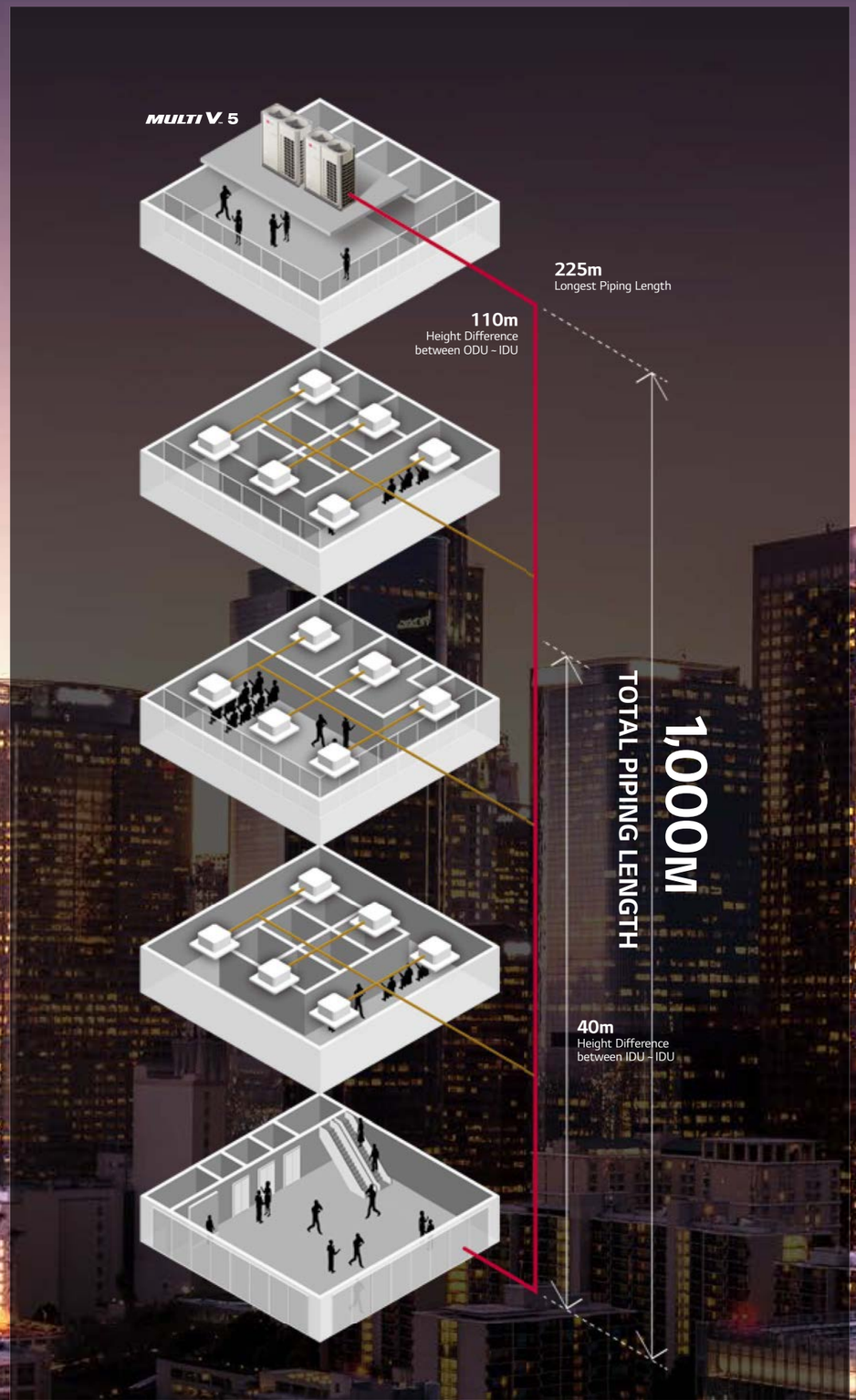
How does it work?

Dual Sensing

Partial Defrost

Interchangeable between heat pump and heat recovery





Dual Sensing Smart Load Control
(SLC)

Enhanced energy saving & increased indoor comfort

Smart Load Control responds to :

1) Outdoor ambient dry bulb temperature
2) Outdoor ambient relative humidity (when enabled)

Cooling Indoor Units
adjusts target low pressure

Raises the target low pressure value as cooling load falls and/or ambient temperature falls. Lowers the target low pressure value as cooling load rises and/or ambient temperature rises.

Heating Indoor Units
adjusts target high pressure

Lowers the target high pressure as heating load falls and/or ambient temperature rises. Raises the target high pressure as heating load rises and/or ambient temperature falls.

What are the benefits?

Enhanced energy savings

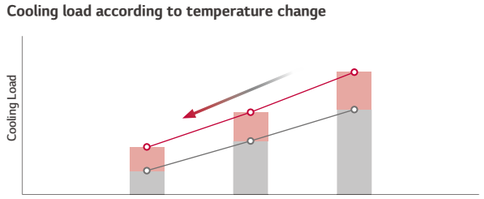
Cooling Mode
By raising the target low pressure during off-peak cooling operation.

Heating Mode
By lowering the target high pressure during off-peak heating operation.

Increased indoor comfort

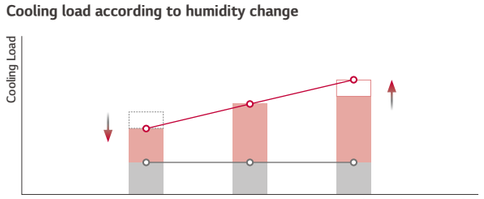
Operation under the revised weather conditions before changing conditions impact indoor comfort.

Cooling load according to temperature change

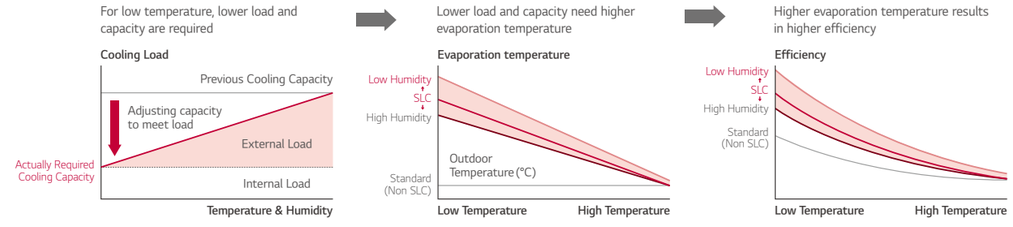


Latent heat load Sensible heat load ※ Constant indoor temp condition

Cooling load according to humidity change



Latent heat load Sensible heat load ※ Constant indoor temp condition

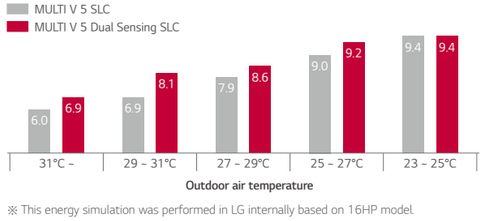


Energy Savings with Dual Sensing Control
Temperature & Humidity

Energy Consumption in Cooling Season

Dual sensing SLC control can save 6% more energy compared to SLC. So dual sensing control is more efficient than SLC.

EER



※ This energy simulation was performed in LG internally based on 16HP model

Power Consumption in Cooling Season

Yearly Power Input (kWh) - ODU

OAT	MV4 (Fixed)	MV5 SLC	MV5 Dual SLC
31 ~	17	15	13
29 ~ 31	91	73	62
27 ~ 29	183	136	124
25 ~ 27	243	170	165
23 ~ 25	155	110	109
Total	690 (137%)	503 (100%)	474 (94%)

6% more energy saving compared to SLC

Comfort Cooling

Increased indoor comfort & enhanced operating efficiency

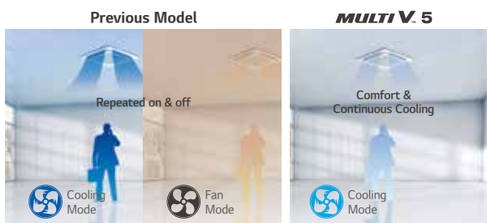
MULTI V 5's comfort control algorithm monitors the outdoor air temperature and humidity conditions. When changing weather conditions are deteriorating and there is a high potential the indoor unit's load will remain stable or may increase, comfort cooling delays or abandons raising the target superheat as the room temperature approaches set-point. When changing weather conditions are favorable to raising target superheat, target superheat is moderated.

What are the benefits?

With comfort cooling turned on, the discharged air temperature is controlled. When the IDU controller reduces the fan speed, the potential for cold air falling on occupants located under the cassette IDU or supply air registers is reduced.

Enhanced operating efficiency

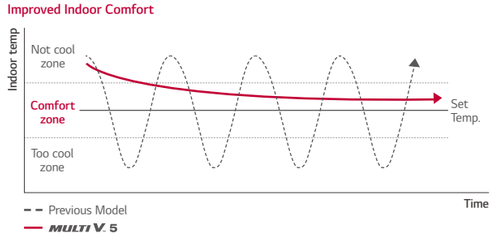
Raising superheat reduces refrigerant volume flowing through the coil.



※ Indoor unit set up available with Standard III Remote Controller

Preventing cold draft & repeated turn On / Off

Improved Indoor Comfort



Intelligent Defrost

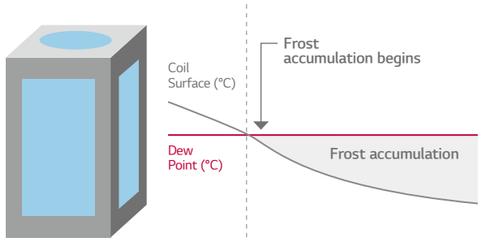
Increased heating run-hours

MULTI V has provided an intelligent defrost algorithm and settings based on current outdoor ambient temperature. With the addition of the outdoor air humidity sensor, MULTI V 5 Intelligent Defrost just got smarter.

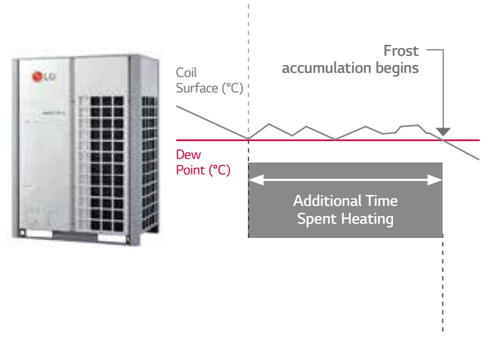
What are the benefits?

The Intelligent Defrost algorithm increases the VRF system's heating run-hours and reduces the number of defrost cycles required to maintain optimum heating performance irrelevant of the mode and method of defrost selected.

Conventional Defrost



LG Intelligent Defrost / Smart Heating



※ Increased heating operation time per day : Up to 17%
- LG Internal Test result,
- Test condition (MULTI V 5 vs MULTI V IV, 22HP)
  - Outdoor : 2/1℃, Indoor : 20/15℃
  - Humidity : 83%, Dew Point : -0.5℃

Variable Path Heat Exchanger

Optimized system efficiency & continuous heating

This split coil feature makes it possible for MULTI V 5 to provide continuous heating during defrost. The split coil and valve arrangement also makes it possible for the MULTI V 5 to change the flow path of refrigerant through one of the two coils only, or through both coils in either a series or a parallel arrangement.

What are the benefits?

Optimizes system efficiency regardless of operating modes as ambient weather conditions change. Customizes the used area of the outdoor unit's heat exchange surface.

Low ambient cooling and / or light building load

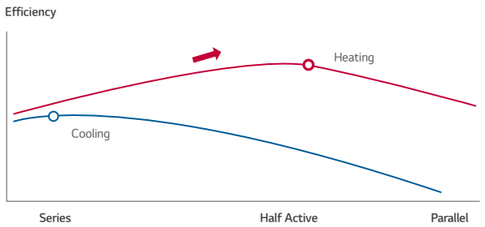
- Half active
- Lower idle

Full load cooling

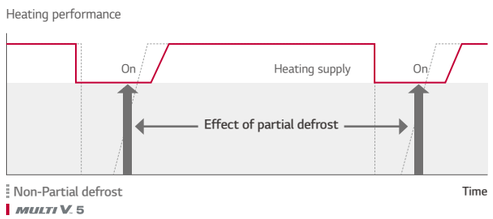
- Upper & lower active
- Series circuited
- High velocity refrigerant flow

Heating - all conditions

- Upper & Lower active
- Parallel circuited
- Low velocity refrigerant flow



Continuous Heating



MULTI V 5

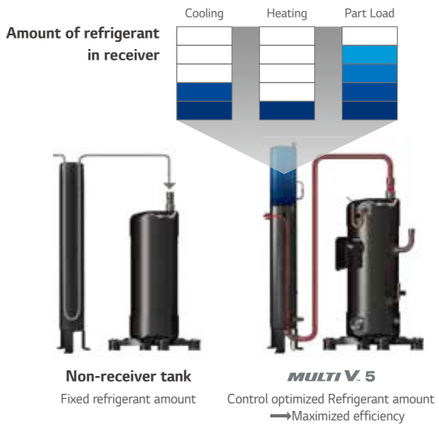
Active Refrigerant Control

Stable operation & sustaining most efficient operation

MULTI V 5 active refrigerant control algorithm goal is to minimize the amount of refrigerant in circulation. The lower the volume in circulation, the lower the cost to move it around the system and the higher the stability of the refrigeration cycle.

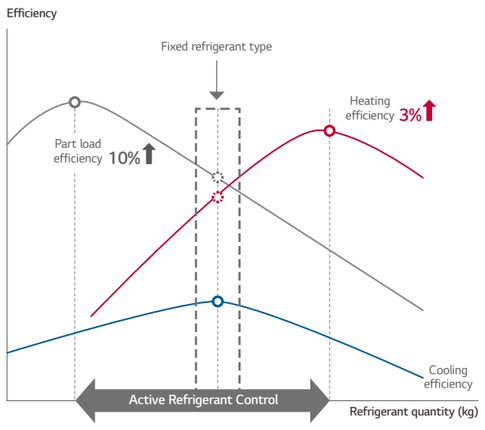
What are the benefits?

Widens the ambient temperature range at which stable operation occurs. Sustains most efficient system operation regardless of outdoor weather conditions, operating mode, or building load.



Non-receiver tank
Fixed refrigerant amount

MULTI V 5
Control optimized Refrigerant amount
→Maximized efficiency



HiPOR™

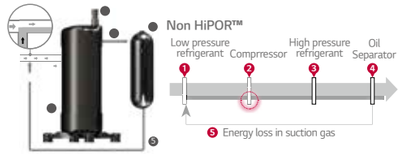
Advanced compressor reliability & efficiency

HiPOR™ is an LG trademark that stands for High Pressure Oil Return. It consists of an oil separator, oil drain line between the separator and the compressor. HiPOR™ technology enables oil to return directly into the compressor, instead of returning through the refrigerant suction pipe.

What are the benefits?

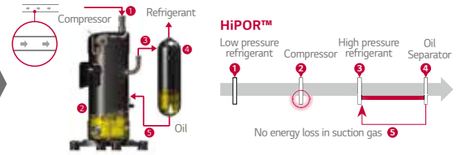
Maximizes reliability and efficiency of the compressor

Non HiPOR™



Efficiency Increase Up to 33%

HiPOR™



- LG Internal Test result,
- Test condition - 15Hz Rating Condition : Tc = 37.9℃, Te : 7.2℃

Smart Oil Management

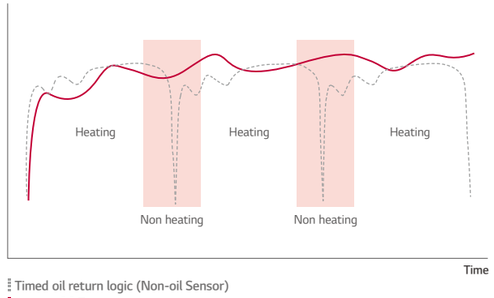
Energy saving, enhanced heating & increased compressor

MULTI V 5 performs oil return when needed under normal operating conditions. An oil level sensor is provided in every LG VRF compressor. If the sensor indicates the compressor oil level is low, the main system processor is notified that an oil return cycle is necessary. LG's unique oil level measuring sensor actively monitors the oil level in each compressor.

What are the benefits?

Energy savings : fewer oil return cycles eliminate unnecessary energy consumption. Increases system heating run-time during winter operation. Increases compressor reliability.

Heating performance

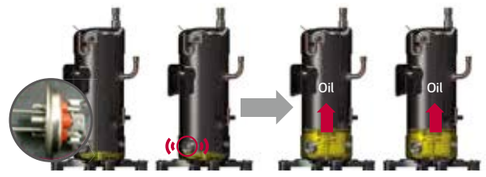


Timed oil return logic (Non-oil Sensor)
MULTI V 5

Increased heating operation time per day : Up to 12%

- LG Internal Test result,
- Test condition
  - without oil level sensor : every 8 hour oil recovery operation
  - with oil level sensor : non oil recovery operation

Smart Oil Return



Auto Oil Balancing

Sub-cooling & Vapor Injection

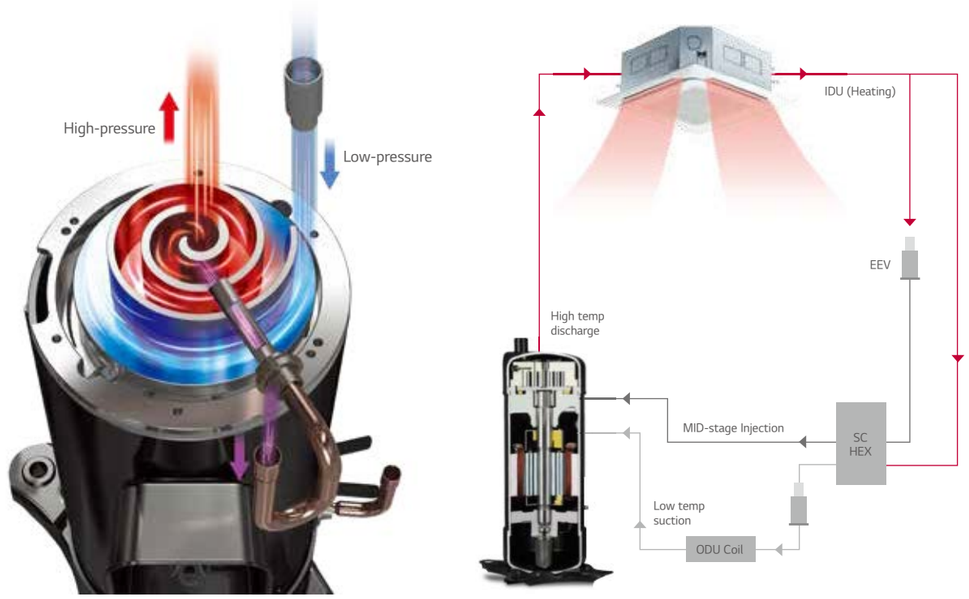
Increased heating performance

MULTI V 5 is equipped with advanced sub-cooler and vapor injection control system. The sub-cooler algorithm sub-cools liquid refrigerant just enough so that it can travel to the farthest IDU in the system operating in cooling mode without changing state. In all cases, the vapor injection increases the compressors cycle efficiency and reduces operating cost.

What are the benefits?

Provides stable refrigeration cycle operation over a wide range of outdoor ambient operating conditions. Increases compressor efficiency when compared to systems without vapor injection technology.

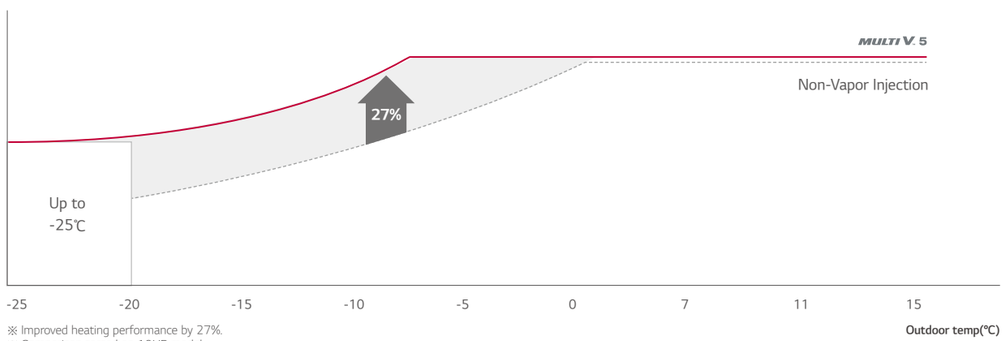
Technology Mechanism



Mid-pressure (Vapor injection port)

Performance Comparison

Heating performance



※ Improved heating performance by 27%.
※ Comparison tested on 10HP model.

Corrosion Resistance Black Fin

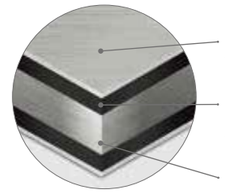
Improved durability

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.

What are the benefits?

This improvement in durability prolongs the product's lifespan and lowers both the operational and maintenance costs.

※ Verification of corrosion resistance performance
- Declared by TUV Rheinland
- Test Method B of ISO21207
- Test condition : Salt contaminated condition + severe industrial / traffic environment (NO_2 / SO_2)



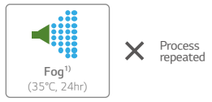
Hydrophilic film (Water flow)
The Hydrophilic coating minimizes moisture buildup on the fin.

Acryl + Epoxy + Melamine resin (Corrosion resistant)
The Black coating provides strong protection from corrosion.

Aluminum fin

SST (Salt Spray Test)

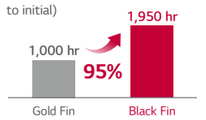
Test Process



Test process is conducted according to ISO 9227.
1) Salty water concentration : NaCl aqueous solution (5%)

Test Result

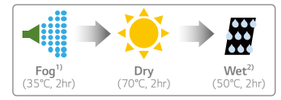
(5% Area of defects compared to initial)



100% copper material to prevent corrosion & refrigerant leakage

CCT (Cyclic Corrosion Test)

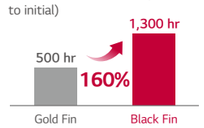
Test Process



※ Test process is conducted according to ISO 14933.
1) Salty water concentration : NaCl aqueous solution (5%)
※ Dry condition changed : 60℃, 4hr → 70℃, 2hr
2) Deionized water

Test Result

(5% Area of defects compared to initial)



100% copper material to prevent corrosion & refrigerant leakage

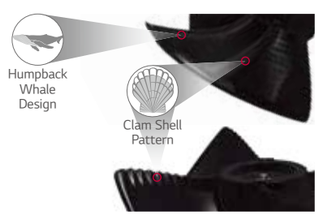
Biomimetic Fan

Maximized performance

The biomimetic technology-based fans, extended shroud of MULTI V 5 allows more high static pressure and helps fans to blow higher air volume for efficient operation. With wider air guide, discharged air current is stabilized and noise level is reduced.

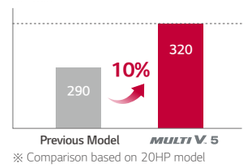
What are the benefits?

Based on the biomimetic technology, the fans of MULTI V 5 increased air flow rate by 10% in comparison to previous model and reduced its power consumption up to 20% when compared with the fan blade design on MULTI V IV. This eventually results in maximized performance with large capacity.



Air flow rate

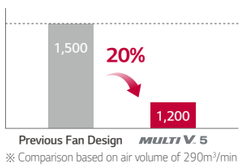
m^3/min



※ Comparison based on 20HP model

Power consumption

W



※ Comparison based on air volume of 290m^3/min

One Unified Model

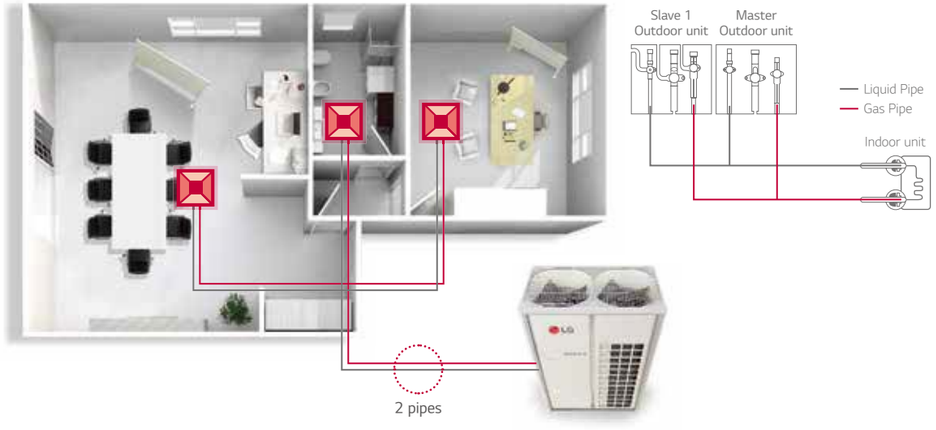
Heat pump / Heat recovery with one platform

LG MULTI V 5 satisfies users' various needs with just one platform.

What are the benefits?

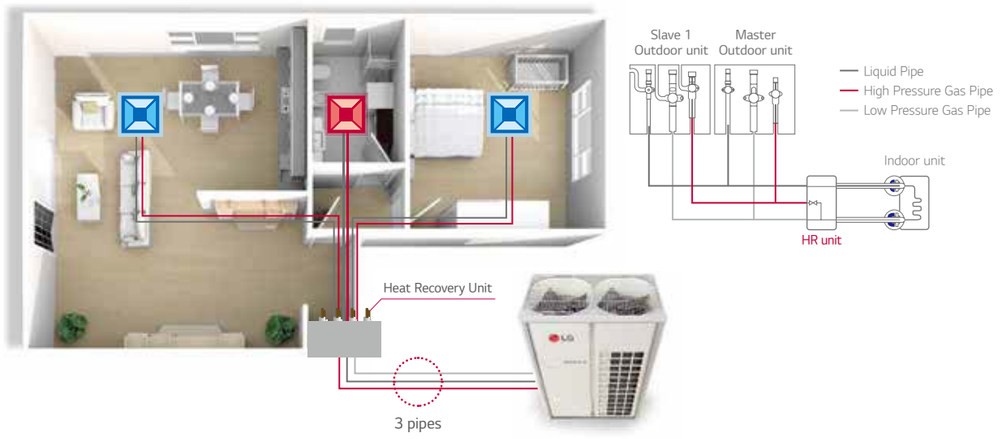
MULTI V 5 allows the building previously installed with Heat Pump system to switch to the Heat Recovery system (by adding HR boxes and a third pipe) for changing purpose of the building or remodeling reasons via simple piping construction.

Heat Pump System



Type Changeover

Heat Recovery System

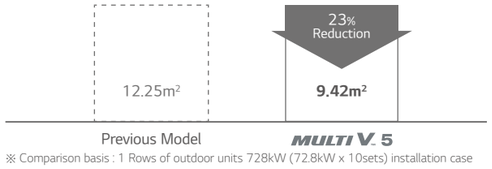


Flexible Installation with Large Capacity Outdoor Units

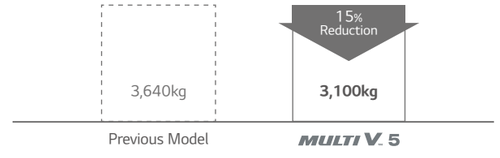
More flexible design potential & space saving

Large capacity outdoor units of MULTI V 5 minimizes installation space that spares valuable floor space and significantly decreases total installed weight.

Foot print area



Product weight



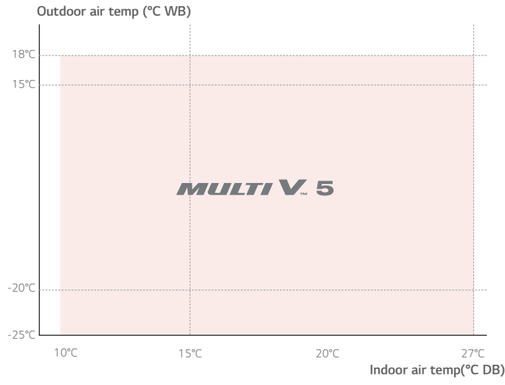
※ Comparison basis : 1 Rows of outdoor units 728kW (72.8kW x 10sets) installation case

Wider Operation Range

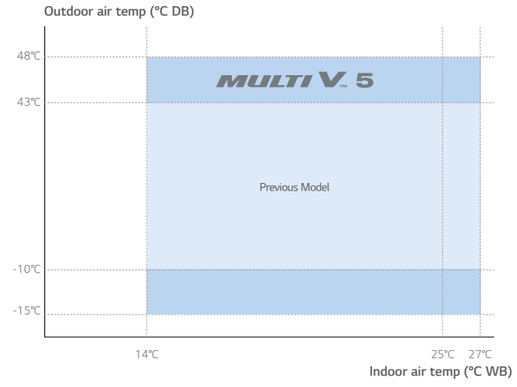
Able to operate at extreme conditions

With improved inverter cooling technology, sub-cooling and vapor injection, MULTI V 5 offers an extended range of heating and cooling operations. Moreover, MULTI V 5's cycle technology with enhanced durability enables optimal cooling performance at high temperature that increases up to 48°C.

Heating



Cooling

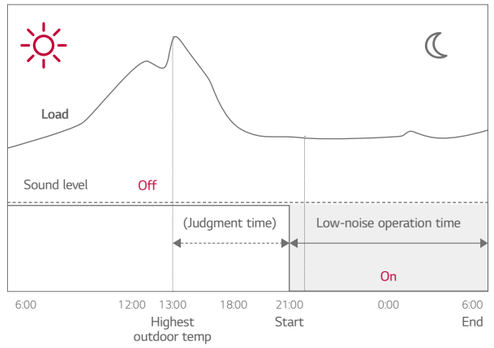


Low-Noise Operation

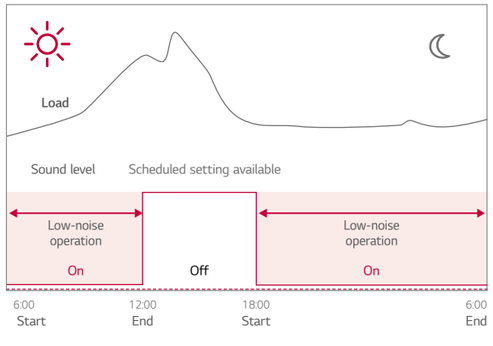
For noise sensitive environment

The Low-Noise Operation of MULTI V 5 can function regardless of the time at the noise sensitive areas.

Previous Model



MULTI V 5



Simple Test Run via LGMV

Increased overall efficiency in installation

With Mobile LGMV of MULTI V 5, fast and accurate auto test run can be executed and the professional installer running the test can receive test results via email, which shortens installation hours and increases overall efficiency in installation processes.

Previous

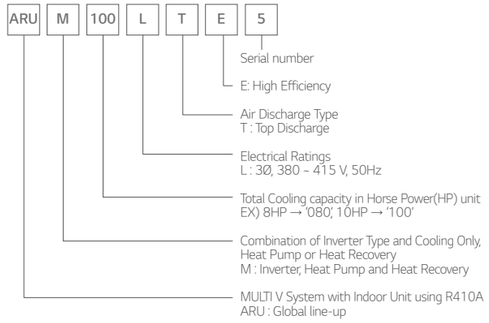
MULTI V 5

Wi-Fi MV Module

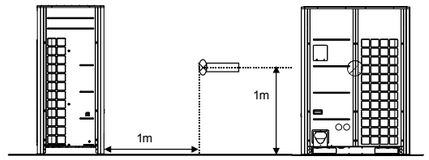
LGMV

Cycle Monitoring | Diagnosis | Installation | Smart Management

Nomenclature



Position of Sound Pressure Level Measuring



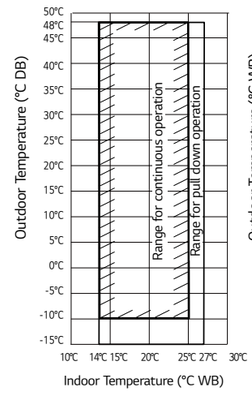
- Data is valid at free field condition
- Data is valid at nominal operating condition
- Sound level will vary depending on a range of factors such as the construction (Acoustic absorption coefficient) of particular room in which the equipment is installed
- Sound level can be increased in static pressure mode or used air guide.

Outdoor Units Function

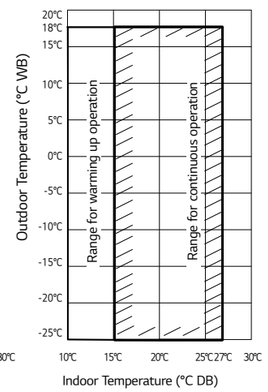
Category	Functions	MULTI V 5
Key Refrigerant Components	Variable Path of Outdoor Unit HEX	○
	HiPOR™ (High Pressure Oil Return)	○
	Humidity Sensor	○
	Corrosion Resistance Black Fin	○
	Oil Sensor	○
Useful Function	Dual Sensing	○
	Low Noise Operation	○
	Hgih Static Mode of Outdoor Unit Fan	○
	Partial Defrosting	○
	Auto Dust Removal of Outdoor Unit (Fan reverse rotation)	○
	Indoor Cooling Comfort Mode Based Outdoor Temperature	○
	Smart Load Control (SLC) (Changing indoor discharge air temperature according to load)	○
	Outdoor Unit Control Refer to Humidity	○
Reliability	Defrost / Deicing	○
	High Pressure Switch	○
	Phase Protection	○
	Restart Delay (3-minutes)	○
	Self Diagnosis	○
	Soft Start	○
	Test Run Function	○
Central Controller	AC Ez (Simple Controller)	PQCSZ250S0
	AC Ez Touch	PACEZA000
	AC Smart IV	PACS4B000
	AC Smart 5	PACS5A000
	ACP (Advanced Control Platform) IV	PACP4B000
	ACP (Advanced Control Platform) 5	PACP5A000
	AC Manager 5	PACM5A000
BNU (Building Network Unit)	ACP Lonworks	PLNWKB000
	ACP BACnet	PQNFB17C0
Installation	Refrigerant Charging Kit	PRAC1
PDI (Power Distribution Indicator)	Standard	PPWRDB000
	Premium	PQNUD1S40
Cool / Heat Selector		PRDSBM
Low Ambient Kit		PRVC2
IO Module (ODU Dry Contact)		PVDSMN000
Cycle Monitoring Device	LGMV	PRCTIL0
	Mobile LGMV	PLGMVW100

Cooling / Heating Operation

Cooling



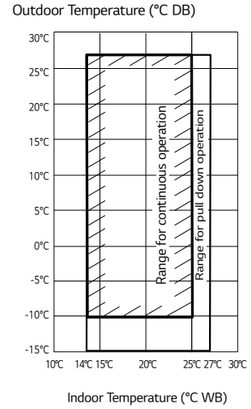
Heating



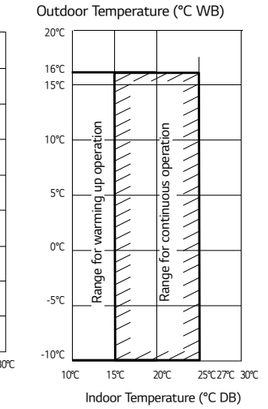
Note
1. These figures assume the following operating conditions :
   Equivalent piping length : 7.5m
   Level difference : 0m
2. Range of pull down operation :
   If the relative humidity is too high, cooling capacity can be decreased by the sensible heat reduction.
3. Warming up operation means that the outdoor unit operates to reach the range of continuous operating, however it may not operate continuously due to safety or protection logic.

Simultaneous Cooling / Heating Operation

Cooling



Heating



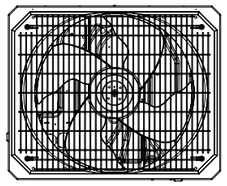
Note
1. These figures assume the following operating conditions :
   Equivalent piping length : 7.5m
   Level difference : 0m
2. Range of pull down operation :
   If the relative humidity is too high, cooling capacity can be decreased by the sensible heat reduction.

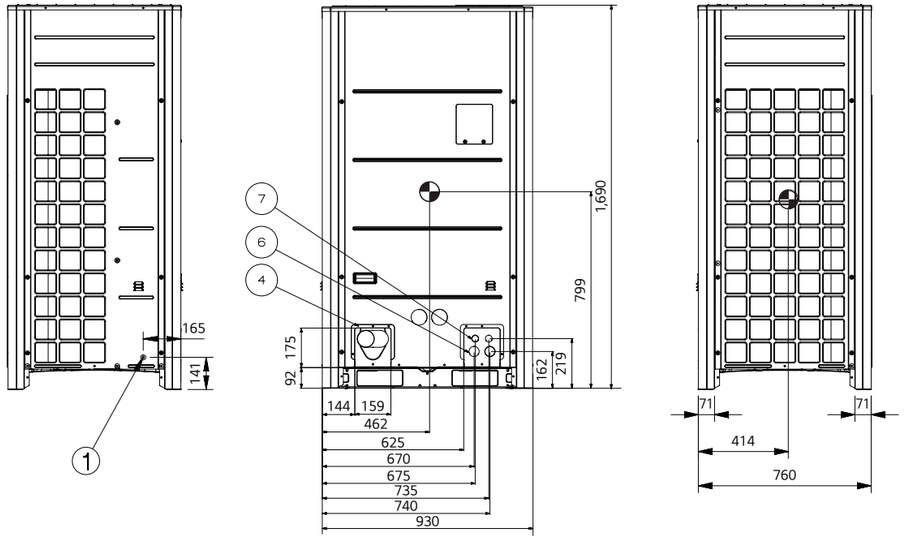
ARUM080LTE5 / ARUM100LTE5 / ARUM120LTE5

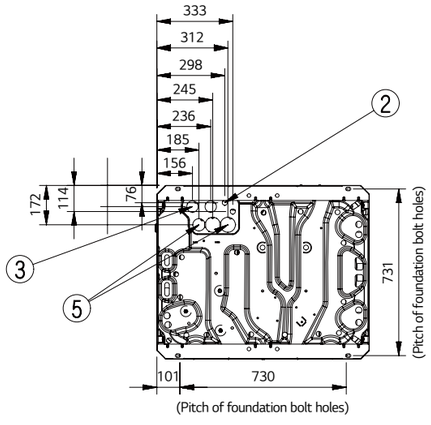
[Unit : mm]

No.	Part Name	Description
1	Leakage test hole (Side)	Ø22.2
2	Wire routing hole (Bottom)	2-Ø22.2
3	Power cord routing hole (Bottom)	2-Ø50
4	Pipe routing hole (Front)	-
5	Pipe routing hole (Bottom)	2-Ø66, Ø53.88
6	Power cord routing hole (Front)	2-Ø45
7	Wire routing hole (Front)	2-Ø30

3D View





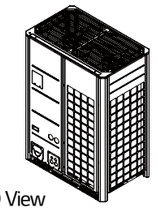


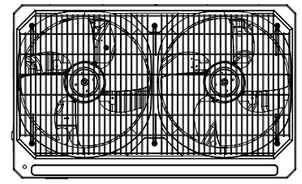
ARUM140LTE5 / ARUM160LTE5 / ARUM180LTE5 / ARUM200LTE5 / ARUM220LTE5 / ARUM240LTE5 / ARUM260LTE5

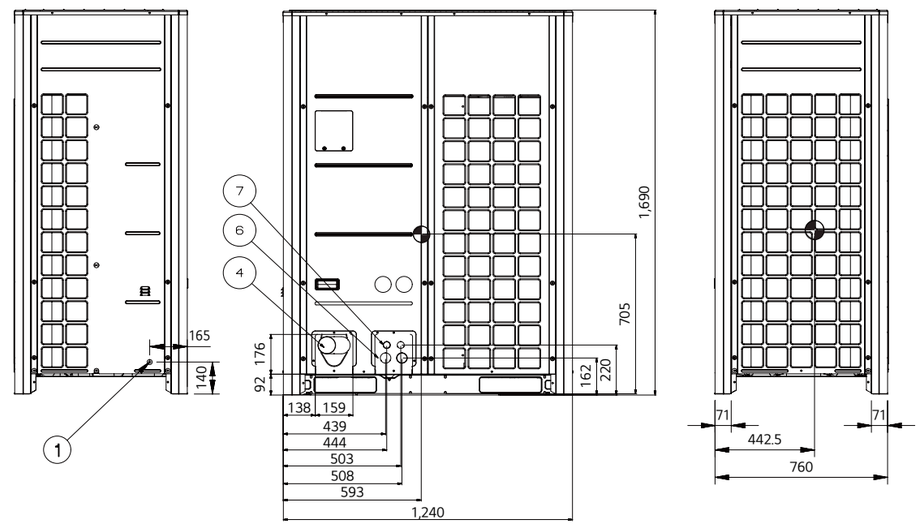
[Unit : mm]

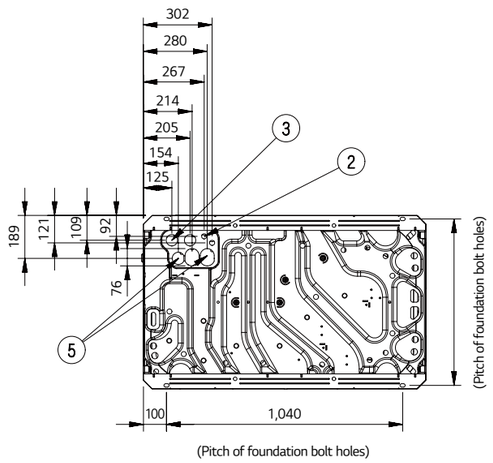
No.	Part Name	Description
1	Leakage test hole (Side)	Ø22.2
2	Wire routing hole (Bottom)	2-Ø22.2
3	Power cord routing hole (Bottom)	2-Ø50
4	Pipe routing hole (Front)	-
5	Pipe routing hole (Bottom)	2-Ø66, Ø53.88
6	Power cord routing hole (Front)	2-Ø45
7	Wire routing hole (Front)	2-Ø30

3D View









Q1 What are the differences between MULTI V IV and MULTI V 5?

A1

Category		MULTI V IV H/P (ARUN***LTE4)	MULTI V 5 H/P & H/R (ARUM***LTE5)
Vapor Injection		○	○
HiPOR™		○	○
Smart Oil Control (Oil Level Sensor)		○	○
Active Refrigerant Control		○	○
Variable Heat Exchanger Circuit		○	○
Continuous Heating		○	○
Smart Load Control		○	○
Dual sensing (Humidity Sensor)		-	○
Comfort Cooling		○	○
Black Fin		-	○
Maximum Capacity (1 Unit / 4 Unit)		20 HP / 80 HP	26 HP / 96 HP
Height Difference (ODU ~ IDU / IDU ~ IDU)		110m / 40m	110m / 40m
Cooling Operating Range (OAT, °CDB)		-10 ~ 43	-15 ~ 48
Heating Operating Range (OAT, °CWB)		-25 ~ 18	-25 ~ 18
Combination ratio of IDU	1 Unit	50 ~ 200%	50 ~ 200%
	2 Unit	50 ~ 160%	50 ~ 160%
	3 or 4 Units	50 ~ 130%	50 ~ 130%

※ ○ : Applied, - : Not Applied

Q2 Can MULTI V 5 ODU be connected with the 2 series indoor unit?

A2 Yes, MULTI V 5 ODU can be connected with the 2 series indoor unit. In this case, the ODU DIP Switch No.3 should be "OFF" which is default setting. Refer to the below table.

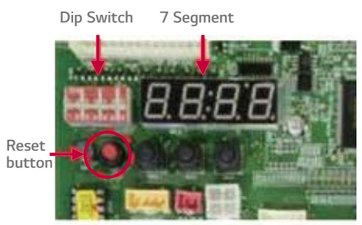
ODU	IDU	Compatibility	ODU DIP Switch No. 3	If dip switch setting is not correct	Ref.
MULTI V IV MULTI V 5	Gen. 2 (ARNU*2)	○	Must be OFF (factory default)	Can not communicate between Indoor & Outdoor unit (System will not be operated)	
	Gen. 4 (ARNU*4)	○	Must be ON to enable gen. 4 functions	When Dip Switch No. 3 is OFF, System can be operated, but some function of Gen. 4 is not available	
	Gen. 2 + Gen. 4	○	Must be OFF (factory default)	When Dip Switch No. 3 is ON, Can not communicate between Gen. 2 Indoor & Outdoor unit (Gen 2 units are not operated), only Gen 4 Units are operated.	Some functions of Gen.4 are not available

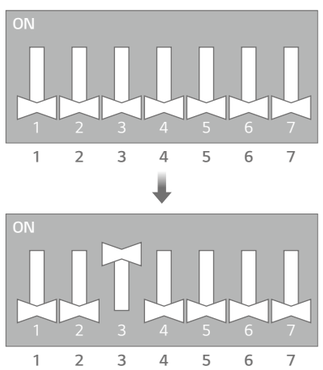
※ ○ : Applied, - : Not Applied

ODU dip switch setting procedure (No.3)

ODU main PCB dip switch is all "OFF" at default state

(1) Check and make sure that all connected indoor units are 4 series. (ARNU******4.)
(2) Change Dip switch No. 3 from OFF → ON
(3) Push the reset button.

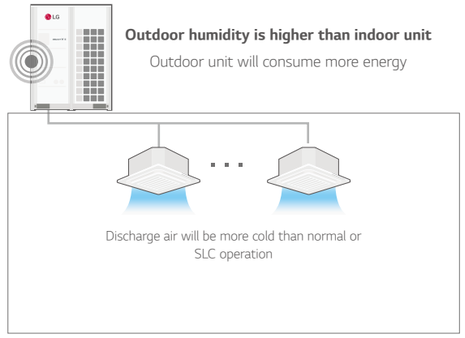


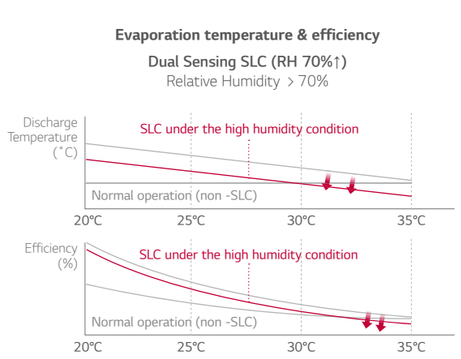


Q3 How does MULTI V 5 operate when humidity reference of the dual sensing SLC is that of the outdoor?

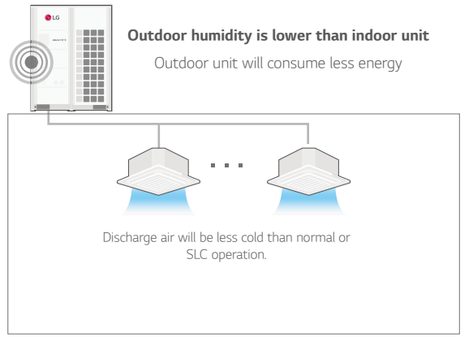
A3 During dual sensing SLC, outdoor unit changes target pressure of the system referring to temperature and humidity in cooling mode.

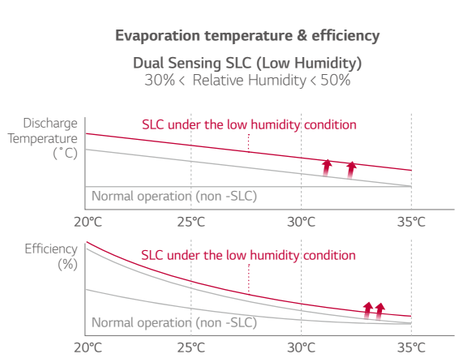
- When the humidity of outdoor side is higher than that of indoor side, outdoor unit will lower target pressure to remove humidity, thus outdoor unit will consume more energy and indoor will be more cooled compared to SLC operation but would have higher efficiency as compared to normal operation.



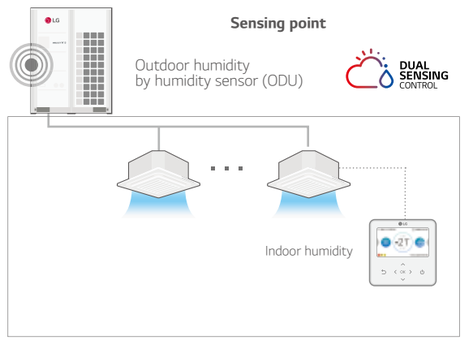


- When the humidity of outdoor side is lower than that of indoor side, outdoor unit will rise target pressure to save energy and keep comfort, but indoor humidity will be less removed compared to normal operation.



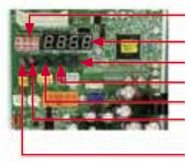


To maximize comfort and energy efficiency, the outdoor unit's humidity sensing can be turned off or a standard remote control can be installed to sense indoor humidity.



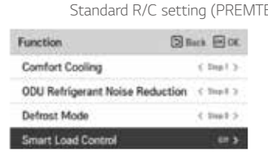
SLC Setting

CASE 1. Dual Sensing SLC with Outdoor humidity sensor in ODU Setting



Setting summary
DIP-SW01 #5 On
Func > Fn14 >
Off, op1 ~ op3

CASE 2. Dual Sensing SLC with Indoor humidity sensor in New Standard R/C setting (PREMTB100)



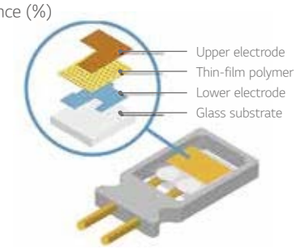
Setting summary
Function>
Smart Load Control>
Off, op1 ~ op3

※ User can turn off humidity control in ODU Setting (humidity reference)
<Setting summary> ODU DIP-SW01 #5 On > Func > Fn16 > Off

Q4 What is the principle and accuracy of humidity sensor?

A4 Total Tolerance (%) = Sensor measurement tolerance (%) + Location of sensor tolerance (%)

The capacitive measurement principle established and proved itself as a standard in the past. For this principle, the sensor element is built out of a capacitor. The dielectric is a polymer which absorbs or releases water proportional to the relative environmental humidity, and thus changes the capacitance of the capacitor. This change in capacitance can be measured by an electronic circuit. For humidity sensors with CMOSens® technology, a "micro-machined" finger electrode system with different protective and polymer cover layers forms the capacitance for the sensor chip, and, in addition to providing the sensor property, simultaneously protects the sensor from interference in ways previously not achieved.

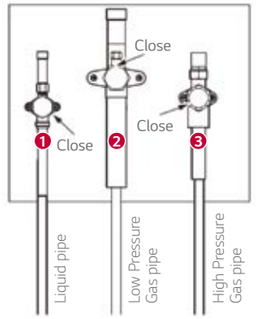


Model	Humidity Sensor of Outdoor	Humidity Sensor of R/Controller
Size (mm)	3 x 3 x 1.1	2.5 x 2.5 x 0.9
Supply voltage range	2.1 to 3.6 V	2.4 to 5.5 V
RH operating range	0 ~ 100% RH	0 ~ 100% RH
T operating range	-40 to +125°C (-40 to +257°F)	-40 to +125°C (-40 to +257°F)
RH response time	8 sec (tau 63%)	8 sec (tau 63%)

Q5 What is difference in refrigerant piping connection between heat pump and heat recovery?

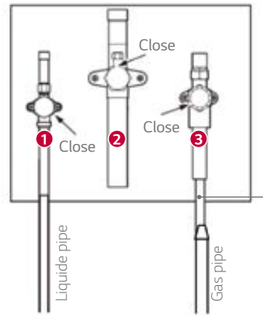
A5 From MULTI V 5, Low pressure gas pipe in heat pump operation changes to high pressure gas pipe in heat recovery operation due to internal cycle. So for heat pump cycle, no.1, 3 pipe should be connected and for heat recovery operation, No. 1, 2, 3 pipe is connected. (For the heat pump operation, DO NOT connect No.2 pipe)

Heat Recovery Installation



8HP	9.52	19.05	15.88
10HP	9.52	22.2	19.05
20HP	15.88	28.58	22.2

Heat Pump Installation



8HP	9.52	No Use	19.05
10HP	9.52	No Use	22.2
20HP	15.88	No Use	28.58

※ For using as Heat Pump, Reducer for Gas pipe should be used. Reducer is included in outdoor unit.

Reducer for Gas Pipe

15.88	→	19.05
19.05	→	22.2
22.2	→	28.58

Other Questions

Item	Question	Answer
Fan	The static pressure of MULTI V 5 is Max 8 mmAq as MULTI V IV??	Yes, the static pressure of MULTI V 5 is the same as MULTI V IV.
Compressor	Is the limitation of Compressor max Hz applied by the capacity of outdoor unit?	No, the limitation of comp Hz is not applied for default. But, it can be set by option for limitation of max Hz (or current).
4 Way V/V	The usage of main & sub 4 way valve for MULTI V 5 ?	MULTI V 5 has the function of both H/P and H/R by one unit. Main valve has a function to change the operation mode. (Cooling ↔ Heating) Sub. Valve has a functions to change the product type (H/P ↔ H/R)
VI	In case of vapor injection, how much is the middle pressure?	The optimal middle pressure for vapor injection is 1.2 P_s. P_s : Suction pressure of compressor
VI	By how much is heating capacity increased by vapor injection?	Generally, the heating capacity is increased up to 15 ~ 20%.
Humidity Sensor	Where is Indoor Humidity sensor?	It is placed inside of the RS3 remote controller.
Remote Controller	Does remote controller show the humidity information (Status) as well?	Yes. It shows the current humidity information on screen. (for RS3 Only) But has no function to control the humidity
Remote Controller	Is it possible to connect the local humidity sensor with Remote controller (RS3)?	No. All of RS3 remote controller can not be connected with local humidity sensor.
SLC	Does dual sensing SLC function control the humidity ratio?	No. There is no control of humidity ratio.
SLC	Is SLC fully used on Eurovent? Isn't humidity fixed for the test? What about AHRI?	Eurovent (RH 47%) and AHRI (RH 51%) have fixed humidity test condition.
Comfort Cooling	Why is not the comfort heating applied in product?	Comfort cooling need super heating controlled and Comfort heating need sub cooling controlled. In case of controlling EEV for sub cooling, noise and stable operation may be affected and critical.
Installation	Does the IDU – Central controller direct connection for communication cable is possible? (Flat connection)	No, it is not possible.

ARUM080LTE5 / ARUM100LTE5
ARUM120LTE5 / ARUM140LTE5

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

HP			8	10	12	14
Model Name	Combination Unit		ARUM080LTE5	ARUM100LTE5	ARUM120LTE5	ARUM140LTE5
	Independent Unit		ARUM080LTE5	ARUM100LTE5	ARUM120LTE5	ARUM140LTE5
Capacity	Cooling (Rated)	kW	22.4	28.0	33.6	39.2
	Heating (Rated)	kW	22.4	28.0	33.6	39.2
	Heating (Max)	kW	25.2	31.5	37.8	44.1
Input	Cooling (Rated)	kW	5.28	6.83	7.71	8.67
	Heating (Rated)	kW	3.97	4.92	6.85	8.48
	Heating (Max)	kW	4.78	5.92	8.26	9.72
EER			4.24	4.10	4.36	4.52
SEER			9.93	9.49	9.57	8.89
COP	Rated Capacity		5.64	5.69	4.91	4.62
	Max Capacity		5.27	5.32	4.58	4.54
SCOP			4.69	4.51	5.01	4.63
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL Code (Classic)		RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037
Heat Exchanger	Type		Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
	Motor Output x Number	W x No.	4,200 x 1	5,300 x 1	5,300 x 1	5,300 x 1
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	3,900	3,900	3,900	3,900
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	1,200 x 1	1,200 x 1	1,200 x 1	900 x 2
	Air Flow Rate (High)	m^3/min x No.	240 x 1	240 x 1	240 x 1	320 x 1
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections for Heat Recovery	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Low Pressure Gas Pipe	mm (inch)	Ø19.05 (3/4)	Ø22.2 (7/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
	High Pressure Gas Pipe	mm (inch)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø22.2 (7/8)
Pipe Connections for Heat Pump	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)	Ø12.7 (1/2)
	Gas Pipe	mm (inch)	Ø19.05 (3/4)	Ø22.2 (7/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
Dimensions (W x H x D)		mm x No.	(930 x 1,690 x 760) x 1	(930 x 1,690 x 760) x 1	(930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x1
Dimensions (W x H x D) - Shipping		mm x No.	(960 x 1,825 x 796) x 1	(960 x 1,825 x 796) x 1	(960 x 1,825 x 796) x 1	(1,280 x 1,825 x 796) x 1
Net Weight		kg x No.	198 x 1	215 x 1	215 x 1	237 x 1
Shipping Weight		kg x No.	208 x 1	225 x 1	225 x 1	250 x 1
Sound Pressure Level	Cooling	dB(A)	58.0	58.0	59.0	60.0
	Heating	dB(A)	59.0	59.0	60.0	61.0
Sound Power Level	Cooling	dB(A)	79.0	79.0	81.0	81.0
	Heating	dB(A)	79.0	79.0	81.0	82.0
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Precharged Amount in Factory	kg	7.5	9.5	9.5	13.5
	t-CO_2eq		15.656	19.831	19.831	28.181
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units 1)			13 (20)	16 (25)	20 (30)	23 (35)

1) Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.

ARUM160LTE5 / ARUM180LTE5
ARUM200LTE5 / ARUM220LTE5

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

HP			16	18	20	22
Model Name	Combination Unit		ARUM160LTE5	ARUM180LTE5	ARUM200LTE5	ARUM220LTE5
	Independent Unit		ARUM160LTE5	ARUM180LTE5	ARUM200LTE5	ARUM220LTE5
Capacity	Cooling (Rated)	kW	44.8	50.4	56.0	61.6
	Heating (Rated)	kW	44.8	50.4	56.0	61.6
	Heating (Max)	kW	50.4	56.7	63.0	69.3
Input	Cooling (Rated)	kW	10.90	11.03	12.76	15.92
	Heating (Rated)	kW	10.28	10.12	12.20	14.15
	Heating (Max)	kW	12.39	11.94	14.69	16.76
EER			4.11	4.57	4.39	3.87
SEER			8.38	8.21	8.05	7.49
COP	Rated Capacity		4.36	4.98	4.59	4.35
	Max Capacity		4.07	4.75	4.29	4.13
SCOP			4.83	4.0	3.98	3.9
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL Code (Classic)		RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037
Heat Exchanger	Type		Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 2	(Inverter) x 2	(Inverter) x 2
	Motor Output x Number	W x No.	5,300 x 1	(5,300 x 1) + (4,200 x 1)	(5,300 x 1) + (4,200 x 1)	(5,300 x 1) + (4,200 x 1)
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	3,900	5,200	5,200	5,200
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	900 x 2	900 x 2	900 x 2	900 x 2
	Air Flow Rate (High)	m^3/min x No.	320 x 1	320 x 1	320 x 1	320 x 1
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections for Heat Recovery	Liquid Pipe	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Low Pressure Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
	High Pressure Gas Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø28.58 (1-1/8)
Pipe Connections for Heat Pump	Liquid Pipe	mm (inch)	Ø12.7 (1/2)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 1
Dimensions (W x H x D) - Shipping		mm x No.	(1,280 x 1,825 x 796) x 1	(1,280 x 1,825 x 796) x 1	(1,280 x 1,825 x 796) x 1	(1,280 x 1,825 x 796) x 1
Net Weight		kg x No.	237 x 1	300 x 1	300 x 1	300 x 1
Shipping Weight		kg x No.	250 x 1	312 x 1	312 x 1	312 x 1
Sound Pressure Level	Cooling	dB(A)	60.5	61.0	62.0	64.5
	Heating	dB(A)	61.5	62.0	64.5	65.5
Sound Power Level	Cooling	dB(A)	85.0	87.0	89.0	91.0
	Heating	dB(A)	86.0	87.0	90.0	93.0
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Precharged Amount in Factory	kg	13.5	16.0	16.0	16.0
	t-CO_2eq		28.181	33.400	33.400	33.400
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units 1)			26 (40)	29 (45)	32 (50)	35 (56)

1) Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.

ARUM240LTE5 / ARUM260LTE5
ARUM221LTE5 / ARUM241LTE5

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com [2)]

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

HP			24	26	22'	24'
Model Name	Combination Unit		ARUM240LTE5	ARUM260LTE5	ARUM221LTE5	ARUM241LTE5
	Independent Unit		ARUM240LTE5	ARUM260LTE5	ARUM120LTE5 ARUM100LTE5	ARUM120LTE5 ARUM120LTE5
Capacity	Cooling (Rated)	kW	67.2	72.8	61.6	67.2
	Heating (Rated)	kW	67.2	67.2	61.6	67.2
	Heating (Max)	kW	74.3	74.3	69.3	75.6
Input	Cooling (Rated)	kW	17.41	20.22	14.54	15.41
	Heating (Rated)	kW	15.89	15.89	11.77	13.70
	Heating (Max)	kW	18.80	19.15	14.18	16.52
EER			3.86	3.60	4.24	4.36
SEER			7.88	7.55	-	-
COP	Rated Capacity		4.23	4.23	5.23	4.91
	Max Capacity		3.95	3.88	4.89	4.58
SCOP			4.34	4.34	-	-
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL Code (Classic)		RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037
Heat Exchanger	Type		Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 2	(Inverter) x 2	(Inverter) x 2	(Inverter) x 2
	Motor Output x Number	W x No.	5,300 x 2	5,300 x 2	5,300 x 2	5,300 x 2
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	5,200	5,200	7,800	7,800
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	900 x 2	900 x 2	(1,200 x 1) + (1,200 x 1)	(1,200 x 1) + (1,200 x 1)
	Air Flow Rate (High)	m^3/min x No.	320 x 1	320 x 1	(240 x 1) + (240 x 1)	(240 x 1) + (240 x 1)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections for Heat Recovery	Liquid Pipe	mm (inch)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Low Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø28.58 (1-1/8)	Ø34.9 (1-3/8)
	High Pressure Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
Pipe Connections for Heat Pump	Liquid Pipe	mm (inch)	Ø15.88 (5/8)	Ø19.05 (3/4)	Ø15.88 (5/8)	Ø15.88 (5/8)
	Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø28.58 (1-1/8)	Ø34.9 (1-3/8)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 1	(930 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1	(930 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1
Dimensions (W x H x D) - Shipping		mm x No.	(1,280 x 1,825 x 796) x 1	(1,280 x 1,825 x 796) x 1	(960 x 1,825 x 796) x 1 + (960 x 1,825 x 796) x 1	(960 x 1,825 x 796) x 1 + (960 x 1,825 x 796) x 1
Net Weight		kg x No.	310 x 1	310 x 1	(215 x 1) + (215 x 1)	(215 x 1) + (215 x 1)
Shipping Weight		kg x No.	320 x 1	320 x 1	(225 x 1) + (225 x 1)	(225 x 1) + (225 x 1)
Sound Pressure Level	Cooling	dB(A)	65.0	65.0	61.5	62.0
	Heating	dB(A)	67.0	67.0	62.5	63.0
Sound Power Level	Cooling	dB(A)	91.0	91.0	83.1	84.0
	Heating	dB(A)	93.0	93.0	83.1	84.0
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Precharged Amount in Factory	kg	17.0	17.0	19.0	19.0
	t-CO_2eq		35.488	35.488	39.663	39.663
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units [1)]			39 (61)	42 (64)	35 (44)	39 (48)

1) Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.
2) Applying to 24 and 26HP outdoor units only.

ARUM261LTE5 / ARUM280LTE5
ARUM300LTE5 / ARUM320LTE5

HP			26'	28	30	32
Model Name	Combination Unit		ARUM261LTE5	ARUM280LTE5	ARUM300LTE5	ARUM320LTE5
	Independent Unit		ARUM140LTE5 ARUM120LTE5	ARUM160LTE5 ARUM120LTE5	ARUM180LTE5 ARUM120LTE5	ARUM200LTE5 ARUM120LTE5
Capacity	Cooling (Rated)	kW	72.8	78.4	84.0	89.6
	Heating (Rated)	kW	72.8	78.4	84.0	89.6
	Heating (Max)	kW	81.9	88.2	94.5	100.8
Input	Cooling (Rated)	kW	16.38	18.61	18.73	20.46
	Heating (Rated)	kW	15.33	17.13	16.97	19.05
	Heating (Max)	kW	17.98	20.65	20.20	22.95
EER			4.44	4.21	4.48	4.38
SEER			-	-	-	-
COP	Rated Capacity		4.75	4.58	4.95	4.70
	Max Capacity		4.56	4.27	4.68	4.39
SCOP			-	-	-	-
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL Code (Classic)		RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037
Heat Exchanger	Type		Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 2	(Inverter) x 2	(Inverter) x 3	(Inverter) x 3
	Motor Output x Number	W x No.	5,300 x 2	5,300 x 2	(5,300 x 2) + (4,200 x 1)	(5,300 x 2) + (4,200 x 1)
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	7,800	7,800	9,100	9,100
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	(900 x 2) + (1,200 x 1)	(900 x 2) + (1,200 x 1)	(900 x 2) + (1,200 x 1)	(900 x 2) + (1,200 x 1)
	Air Flow Rate (High)	m^3/min x No.	(320 x 1) + (240 x 1)	(320 x 1) + (240 x 1)	(320 x 1) + (240 x 1)	(320 x 1) + (240 x 1)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections for Heat Recovery	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Low Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
	High Pressure Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)
Pipe Connections for Heat Pump	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1
Dimensions (W x H x D) - Shipping		mm x No.	(1,280 x 1,825 x 796) x 1 + (960 x 1,825 x 796) x 1	(1,280 x 1,825 x 796) x 1 + (960 x 1,825 x 796) x 1	(1,280 x 1,825 x 796) x 1 + (960 x 1,825 x 796) x 1	(1,280 x 1,825 x 796) x 1 + (960 x 1,825 x 796) x 1
Net Weight		kg x No.	(237 x 1) + (215 x 1)	(237 x 1) + (215 x 1)	(300 x 1) + (215 x 1)	(300 x 1) + (215 x 1)
Shipping Weight		kg x No.	(250 x 1) + (225 x 1)	(250 x 1) + (225 x 1)	(312 x 1) + (225 x 1)	(312 x 1) + (225 x 1)
Sound Pressure Level	Cooling	dB(A)	62.5	62.8	63.1	63.8
	Heating	dB(A)	63.5	63.8	64.1	65.8
Sound Power Level	Cooling	dB(A)	84.0	86.5	88.0	89.6
	Heating	dB(A)	84.5	87.2	88.0	90.5
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Precharged Amount in Factory	kg	23.0	23.0	25.5	25.5
	t-CO_2eq		48.013	48.013	53.231	53.231
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units [1)]			42 (52)	45 (56)	49 (60)	52 (64)

1) Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.

ARUM340LTE5 / ARUM360LTE5
ARUM380LTE5 / ARUM400LTE5

HP			34	36	38	40
Model Name	Combination Unit		ARUM340LTE5	ARUM360LTE5	ARUM380LTE5	ARUM400LTE5
	Independent Unit		ARUM220LTE5 ARUM120LTE5	ARUM240LTE5 ARUM120LTE5	ARUM240LTE5 ARUM140LTE5	ARUM240LTE5 ARUM160LTE5
Capacity	Cooling (Rated)	kW	95.2	100.8	106.4	112.0
	Heating (Rated)	kW	95.2	100.8	106.4	112.0
	Heating (Max)	kW	107.1	112.1	118.4	124.7
Input	Cooling (Rated)	kW	23.62	25.12	26.08	28.31
	Heating (Rated)	kW	21.00	22.74	24.37	26.17
	Heating (Max)	kW	25.02	27.06	28.52	31.19
EER			4.03	4.01	4.08	3.96
SEER			-	-	-	-
COP	Rated Capacity		4.53	4.43	4.37	4.28
	Max Capacity		4.28	4.14	4.15	4.00
SCOP			-	-	-	-
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL Code (Classic)		RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037
Heat Exchanger	Type		Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin
Compressor	Type		Hermetically Sealed Scroll (Inverter) x 3	Hermetically Sealed Scroll (Inverter) x 3	Hermetically Sealed Scroll (Inverter) x 3	Hermetically Sealed Scroll (Inverter) x 3
	Motor Output x Number	W x No.	(5,300 x 2) + (4,200 x 1)	5,300 x 3	5,300 x 3	5,300 x 3
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	9,100	9,100	9,100	9,100
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	(900 x 2) + (1,200 x 1)	(900 x 2) + (1,200 x 1)	900 x 4	900 x 4
	Air Flow Rate (High)	m^3/min x No.	(320 x 1) + (240 x 1)	(320 x 1) + (240 x 1)	320 x 2	320 x 2
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections for Heat Recovery	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Low Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
	High Pressure Gas Pipe	mm (inch)	Ø28.58 (1-1/8)	Ø28.58 (1-1/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
Pipe Connections for Heat Pump	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 1 + (930 x 1,690 x 760) x 1	(1,240 x1,690 x 760) x 2	(1,240 x1,690 x 760) x 2
Dimensions (W x H x D) - Shipping		mm x No.	(1,280 x 1,825 x 796) x 1 + (960 x 1,825 x 796) x 1	(1,280 x 1,825 x 796) x 1 + (960 x 1,825 x 796) x 1	(1,280 x 1,825 x 796) x 2	(1,280 x 1,825 x 796) x 2
Net Weight		kg x No.	(300 x 1) + (215 x 1)	(310 x 1) + (215 x 1)	(310 x 1) + (237 x 1)	(310 x 1) + (237 x 1)
Shipping Weight		kg x No.	(312 x 1) + (225 x 1)	(320 x 1) + (225 x 1)	(320 x 1) + (250 x 1)	(320 x 1) + (250 x 1)
Sound Pressure Level	Cooling	dB(A)	65.6	66.0	66.2	66.3
	Heating	dB(A)	66.6	67.8	68.0	68.1
Sound Power Level	Cooling	dB(A)	91.4	91.4	91.4	92.0
	Heating	dB(A)	93.3	93.3	93.3	93.8
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Precharged Amount in Factory	kg	25.5	26.5	30.5	30.5
	t-CO_2eq		53.231	55.319	63.669	63.669
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units [1]			55 (64)	58 (64)	61 (64)	64

1) Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.

ARUM420LTE5 / ARUM440LTE5
ARUM460LTE5 / ARUM480LTE5

HP			42	44	46	48
Model Name	Combination Unit		ARUM420LTE5	ARUM440LTE5	ARUM460LTE5	ARUM480LTE5
	Independent Unit		ARUM240LTE5 ARUM180LTE5	ARUM240LTE5 ARUM200LTE5	ARUM240LTE5 ARUM220LTE5	ARUM240LTE5 ARUM240LTE5
Capacity	Cooling (Rated)	kW	117.6	123.2	128.8	134.4
	Heating (Rated)	kW	117.6	123.2	128.8	134.4
	Heating (Max)	kW	131.0	137.3	143.6	148.5
Input	Cooling (Rated)	kW	28.44	30.17	33.33	34.82
	Heating (Rated)	kW	26.01	28.09	30.04	31.78
	Heating (Max)	kW	30.74	33.48	35.56	37.60
EER			4.14	4.08	3.86	3.86
SEER			-	-	-	-
COP	Rated Capacity		4.52	4.39	4.29	4.23
	Max Capacity		4.26	4.10	4.04	3.95
SCOP			-	-	-	-
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL Code (Classic)		RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037
Heat Exchanger	Type		Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin
Compressor	Type		Hermetically Sealed Scroll (Inverter) x 4	Hermetically Sealed Scroll (Inverter) x 4	Hermetically Sealed Scroll (Inverter) x 4	Hermetically Sealed Scroll (Inverter) x 4
	Motor Output x Number	W x No.	(5,300 x 3) + (4,200 x 1)	(5,300 x 3) + (4,200 x 1)	(5,300 x 3) + (4,200 x 1)	5,300 x 4
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	10,400	10,400	10,400	10,400
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	900 x 4	900 x 4	900 x 4	900 x 4
	Air Flow Rate (High)	m^3/min x No.	320 x 2	320 x 2	320 x 2	320 x 2
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections for Heat Recovery	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Low Pressure Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
	High Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
Pipe Connections for Heat Pump	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
Dimensions (W x H x D)		mm x No.	(1,240 x1,690 x 760) x 2	(1,240 x1,690 x 760) x 2	(1,240 x1,690 x 760) x 2	(1,240 x1,690 x 760) x 2
Dimensions (W x H x D) - Shipping		mm x No.	(1,280 x 1,825 x 796) x 2	(1,280 x 1,825 x 796) x 2	(1,280 x 1,825 x 796) x 2	(1,280 x 1,825 x 796) x 2
Net Weight		kg x No.	(310 x 1) + (300 x 1)	(310 x 1) + (300 x 1)	(310 x 1) + (300 x 1)	310 x 2
Shipping Weight		kg x No.	(320 x 1) + (312 x 1)	(320 x 1) + (312 x 1)	(320 x 1) + (312 x 1)	320 x 2
Sound Pressure Level	Cooling	dB(A)	66.5	66.8	67.8	68.0
	Heating	dB(A)	68.2	68.9	69.3	70.0
Sound Power Level	Cooling	dB(A)	92.5	93.1	94.0	94.0
	Heating	dB(A)	94.0	94.8	96.0	96.0
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Precharged Amount in Factory	kg	33.0	33.0	33.0	34.0
	t-CO_2eq		68.888	68.888	68.888	70.975
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units [1]			64	64	64	64

1) Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.

ARUM500LTE5 / ARUM520LTE5
ARUM540LTE5 / ARUM560LTE5

HP			50	52	54	56
Model Name	Combination Unit		ARUM500LTE5	ARUM520LTE5	ARUM540LTE5	ARUM560LTE5
	Independent Unit		ARUM240LTE5 ARUM140LTE5 ARUM120LTE5	ARUM240LTE5 ARUM160LTE5 ARUM120LTE5	ARUM240LTE5 ARUM180LTE5 ARUM120LTE5	ARUM240LTE5 ARUM200LTE5 ARUM120LTE5
Capacity	Cooling (Rated)	kW	140	145.6	151.2	156.8
	Heating (Rated)	kW	140	145.6	151.2	156.8
	Heating (Max)	kW	156.2	162.5	168.8	175.1
Input	Cooling (Rated)	kW	33.79	36.02	36.14	37.87
	Heating (Rated)	kW	31.22	33.02	32.86	34.94
	Heating (Max)	kW	36.78	39.45	39.00	41.74
EER			4.14	4.04	4.18	4.14
SEER			-	-	-	-
COP	Rated Capacity		4.48	4.41	4.60	4.49
	Max Capacity		4.25	4.12	4.33	4.19
SCOP			-	-	-	-
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL Code (Classic)		RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037
Heat Exchanger	Type		Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 4	(Inverter) x 4	(Inverter) x 5	(Inverter) x 5
	Motor Output x Number	W x No.	5,300 x 4	5,300 x 4	(5,300 x 4) + (4,200 x 1)	(5,300 x 4) + (4,200 x 1)
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	13,000	13,000	14,300	14,300
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	(900 x 4) + (1,200 x 1)	(900 x 4) + (1,200 x 1)	(900 x 4) + (1,200 x 1)	(900 x 4) + (1,200 x 1)
	Air Flow Rate (High)	m^3/min x No.	(320 x 2) + (240 x 1)	(320 x 2) + (240 x 1)	(320 x 2) + (240 x 1)	(320 x 2) + (240 x 1)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Pipe Connections for Heat Recovery	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Low Pressure Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
	High Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)
Pipe Connections for Heat Pump	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø19.05 (3/4)
	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,690 x 760) x 2 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 2 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 2 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 2 + (930 x 1,690 x 760) x 1
Dimensions (W x H x D) - Shipping		mm x No.	(1,280 x 1,825 x 796) x 2 + (960 x 1,825 x 796) x 1	(1,280 x 1,825 x 796) x 2 + (960 x 1,825 x 796) x 1	(1,280 x 1,825 x 796) x 2 + (960 x 1,825 x 796) x 1	(1,280 x 1,825 x 796) x 2 + (960 x 1,825 x 796) x 1
Net Weight		kg x No.	(310 x 1) + (237 x 1) + (215 x 1)	(310 x 1) + (237 x 1) + (215 x 1)	(310 x 1) + (300 x 1) + (215 x 1)	(310 x 1) + (300 x 1) + (215 x 1)
Shipping Weight		kg x No.	(320 x 1) + (250 x 1) + (225 x 1)	(320 x 1) + (250 x 1) + (225 x 1)	(320 x 1) + (312 x 1) + (225 x 1)	(320 x 1) + (312 x 1) + (225 x 1)
Sound Pressure Level	Cooling	dB(A)	67.0	67.1	67.2	67.4
	Heating	dB(A)	68.6	68.7	68.8	69.5
Sound Power Level	Cooling	dB(A)	91.8	92.3	92.8	93.4
	Heating	dB(A)	93.6	94.0	94.2	94.9
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A
	Precharged Amount in Factory	kg	40	40	42.5	42.5
	t-CO_2eq		83.500	83.500	88.719	88.719
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units [1]			64	64	64	64

1) Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.

ARUM580LTE5 / ARUM600LTE5 / ARUM620LTE5
ARUM640LTE5 / ARUM660LTE5

HP			58	60	62	64	66
Model Name	Combination Unit		ARUM580LTE5	ARUM600LTE5	ARUM620LTE5	ARUM640LTE5	ARUM660LTE5
	Independent Unit		ARUM240LTE5 ARUM220LTE5 ARUM120LTE5	ARUM240LTE5 ARUM240LTE5 ARUM120LTE5	ARUM240LTE5 ARUM240LTE5 ARUM140LTE5	ARUM240LTE5 ARUM240LTE5 ARUM160LTE5	ARUM240LTE5 ARUM240LTE5 ARUM180LTE5
Capacity	Cooling (Rated)	kW	162.4	168.0	173.6	179.2	184.8
	Heating (Rated)	kW	162.4	168.0	173.6	179.2	184.8
	Heating (Max)	kW	181.4	186.3	192.6	198.9	205.2
Input	Cooling (Rated)	kW	41.03	42.53	43.49	45.72	45.85
	Heating (Rated)	kW	36.89	38.63	40.26	42.06	41.90
	Heating (Max)	kW	43.82	45.86	47.32	49.99	49.54
EER			3.96	3.95	3.99	3.92	4.03
SEER			-	-	-	-	-
COP	Rated Capacity		4.40	4.35	4.31	4.26	4.41
	Max Capacity		4.14	4.06	4.07	3.98	4.14
SCOP			-	-	-	-	-
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL Code (Classic)		RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037
Heat Exchanger	Type		Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 5	(Inverter) x 5	(Inverter) x 5	(Inverter) x 5	(Inverter) x 6
	Motor Output x Number	W x No.	(5,300 x 4) + (4,200 x 1)	5,300 x 5	5,300 x 5	5,300 x 5	(5,300 x 5) + (4,200 x 1)
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	14,300	14,300	14,300	14,300	15,600
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	(900 x 4) + (1,200 x 1)	(900 x 4) + (1,200 x 1)	900 x 6	900 x 6	900 x 6
	Air Flow Rate (High)	m^3/min x No.	(320 x 2) + (240 x 1)	(320 x 2) + (240 x 1)	320 x 3	320 x 3	320 x 3
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP	TOP
Pipe Connections for Heat Recovery	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
	Low Pressure Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø44.5 (1-3/4)	Ø44.5 (1-3/4)	Ø53.98 (2-1/8)
	High Pressure Gas Pipe	mm (inch)	Ø34.9 (1-3/8)	Ø34.9 (1-3/8)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø44.5 (1-3/4)
Pipe Connections for Heat Pump	Liquid Pipe	mm (inch)	Ø19.05 (3/4)	Ø19.05 (3/4)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
	Gas Pipe	mm (inch)	Ø41.3 (1-5/8)	Ø41.3 (1-5/8)	Ø44.5 (1-3/4)	Ø44.5 (1-3/4)	Ø53.98 (2-1/8)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,690 x 760) x 2 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 2 + (930 x 1,690 x 760) x 1	(1,240 x1,690 x 760) x 3	(1,240 x1,690 x 760) x 3	(1,240 x1,690 x 760) x 3
Dimensions (W x H x D) - Shipping		mm x No.	(1,280 x 1,825 x 796) x 2 + (960 x 1,825 x 796) x 1	(1,280 x 1,825 x 796) x 2 + (960 x 1,825 x 796) x 1	(1,280 x 1,825 x 796) x 3	(1,280 x 1,825 x 796) x 3	(1,280 x 1,825 x 796) x 3
Net Weight		kg x No.	(310 x 1) + (300 x 1) + (215 x 1)	(310 x 2) + (215 x 1)	(310 x 2) + (237 x 1)	(310 x 2) + (237 x 1)	(310 x 2) + (300 x 1)
Shipping Weight		kg x No.	(320 x 1) + (312 x 1) + (225 x 1)	(320 x 2) + (225 x 1)	(320 x 2) + (250 x 1)	(320 x 2) + (250 x 1)	(320 x 2) + (312 x 1)
Sound Pressure Level	Cooling	dB(A)	68.3	68.5	68.6	68.7	68.8
	Heating	dB(A)	69.8	70.4	70.5	70.6	70.6
Sound Power Level	Cooling	dB(A)	94.2	94.2	94.2	94.5	94.8
	Heating	dB(A)	96.1	96.1	96.2	96.4	96.5
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A	R410A
	Precharged Amount in Factory	kg	42.5	43.5	47.5	47.5	50.0
	t-CO_2eq		88.719	90.806	99.156	99.156	104.375
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units [1]			64	64	64	64	64

1) Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.

ARUM680LTE5 / ARUM700LTE5 / ARUM720LTE5
ARUM740LTE5 / ARUM760LTE5

HP			68	70	72	74	76
Model Name	Combination Unit		ARUM680LTE5	ARUM700LTE5	ARUM720LTE5	ARUM740LTE5	ARUM760LTE5
	Independent Unit		ARUM240LTE5 ARUM240LTE5 ARUM200LTE5	ARUM240LTE5 ARUM240LTE5 ARUM220LTE5	ARUM240LTE5 ARUM240LTE5 ARUM240LTE5	ARUM240LTE5 ARUM240LTE5 ARUM140LTE5 ARUM120LTE5	ARUM240LTE5 ARUM240LTE5 ARUM160LTE5 ARUM120LTE5
Capacity	Cooling (Rated)	kW	190.4	196.0	201.6	207.2	212.8
	Heating (Rated)	kW	190.4	196.0	201.6	207.2	212.8
	Heating (Max)	kW	211.5	217.8	222.8	230.4	236.7
Input	Cooling (Rated)	kW	47.57	50.74	52.23	51.20	53.43
	Heating (Rated)	kW	43.98	45.93	47.67	47.11	48.91
	Heating (Max)	kW	52.28	54.36	56.40	55.58	58.25
EER			4.00	3.86	3.86	4.05	3.98
SEER			-	-	-	-	-
COP	Rated Capacity		4.33	4.27	4.23	4.40	4.35
	Max Capacity		4.05	4.01	3.95	4.15	4.06
SCOP			-	-	-	-	-
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL Code (Classic)		RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037
Heat Exchanger	Type		Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 6	(Inverter) x 6	(Inverter) x 6	(Inverter) x 6	(Inverter) x 6
	Motor Output x Number	W x No.	(5,300 x 5) + (4,200 x 1)	(5,300 x 5) + (4,200 x 1)	5,300 x 6	5,300 x 6	5,300 x 6
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	15,600	15,600	15,600	18,200	18,200
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	900 x 6	900 x 6	900 x 6	(900 x 6) + (1,200 x 1)	(900 x 6) + (1,200 x 1)
	Air Flow Rate (High)	m^3/min x No.	320 x 3	320 x 3	320 x 3	(320 x 3) + (240 x 1)	(320 x 3) + (240 x 1)
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP	TOP
Pipe Connections for Heat Recovery	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
	Low Pressure Gas Pipe	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	High Pressure Gas Pipe	mm (inch)	Ø44.5 (1-3/4)	Ø44.5 (1-3/4)	Ø44.5 (1-3/4)	Ø44.5 (1-3/4)	Ø44.5 (1-3/4)
Pipe Connections for Heat Pump	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
	Gas Pipe	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
Dimensions (W x H x D)		mm x No.	(1,240 x1,690 x 760) x 3	(1,240 x1,690 x 760) x 3	(1,240 x1,690 x 760) x 3	(1,240 x 1,690 x 760) x 3 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 3 + (930 x 1,690 x 760) x 1
Dimensions (W x H x D) - Shipping		mm x No.	(1,280 x 1,825 x 796) x 3	(1,280 x 1,825 x 796) x 3	(1,280 x 1,825 x 796) x 3	(1,280 x 1,825 x 796) x 3 + (960 x 1,825 x 796) x 1	(1,280 x 1,825 x 796) x 3 + (960 x 1,825 x 796) x 1
Net Weight		kg x No.	(310 x 2) + (300 x 1)	(310 x 2) + (300 x 1)	310 x 3	(310 x 2) + (237 x 1) + (215 x 1)	(310 x 2) + (237 x 1) + (215 x 1)
Shipping Weight		kg x No.	(320 x 2) + (312 x 1)	(320 x 2) + (312 x 1)	320 x 3	(320 x 2) + (250 x 1) + (225 x 1)	(320 x 2) + (250 x 1) + (225 x 1)
Sound Pressure Level	Cooling	dB(A)	69.0	69.6	69.8	69.1	69.2
	Heating	dB(A)	71.1	71.3	71.8	70.9	70.9
Sound Power Level	Cooling	dB(A)	95.2	95.8	95.8	94.4	94.7
	Heating	dB(A)	97.0	97.8	97.8	96.3	96.5
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A	R410A
	Precharged Amount in Factory	kg	50.0	50.0	51.0	57.0	57.0
	t-CO_2eq		104.375	104.375	106.463	118.988	118.988
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units 1)			64	64	64	64	64

1) Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.

ARUM780LTE5 / ARUM800LTE5 / ARUM820LTE5
ARUM840LTE5 / ARUM860LTE5

HP			78	80	82	84	86
Model Name	Combination Unit		ARUM780LTE5	ARUM800LTE5	ARUM820LTE5	ARUM840LTE5	ARUM860LTE5
	Independent Unit		ARUM240LTE5 ARUM240LTE5 ARUM180LTE5 ARUM120LTE5	ARUM240LTE5 ARUM240LTE5 ARUM200LTE5 ARUM120LTE5	ARUM240LTE5 ARUM240LTE5 ARUM220LTE5 ARUM120LTE5	ARUM240LTE5 ARUM240LTE5 ARUM240LTE5 ARUM120LTE5	ARUM240LTE5 ARUM240LTE5 ARUM240LTE5 ARUM140LTE5
Capacity	Cooling (Rated)	kW	218.4	224.0	229.6	235.2	240.8
	Heating (Rated)	kW	218.4	224.0	229.6	235.2	240.8
	Heating (Max)	kW	243.0	249.3	255.6	260.6	266.9
Input	Cooling (Rated)	kW	53.55	55.28	58.44	59.93	60.90
	Heating (Rated)	kW	48.75	50.83	52.78	54.52	56.15
	Heating (Max)	kW	57.80	60.54	62.62	64.66	66.12
EER			4.08	4.05	3.93	3.92	3.95
SEER			-	-	-	-	-
COP	Rated Capacity		4.48	4.41	4.35	4.31	4.29
	Max Capacity		4.20	4.12	4.08	4.03	4.04
SCOP			-	-	-	-	-
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL Code (Classic)		RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037
Heat Exchanger	Type		Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 7	(Inverter) x 7	(Inverter) x 7	(Inverter) x 7	(Inverter) x 7
	Motor Output x Number	W x No.	(5,300 x 6) + (4,200 x 1)	(5,300 x 6) + (4,200 x 1)	(5,300 x 6) + (4,200 x 1)	5,300 x 7	5,300 x 7
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	19,500	19,500	19,500	19,500	19,500
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	(900 x 6) + (1,200 x 1)	(900 x 6) + (1,200 x 1)	(900 x 6) + (1,200 x 1)	(900 x 6) + (1,200 x 1)	900 x 8
	Air Flow Rate (High)	m^3/min x No.	(320 x 3) + (240 x 1)	(320 x 3) + (240 x 1)	(320 x 3) + (240 x 1)	(320 x 3) + (240 x 1)	320 x 4
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP	TOP
Pipe Connections for Heat Recovery	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
	Low Pressure Gas Pipe	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	High Pressure Gas Pipe	mm (inch)	Ø44.5 (1-3/4)	Ø44.5 (1-3/4)	Ø44.5 (1-3/4)	Ø44.5 (1-3/4)	Ø44.5 (1-3/4)
Pipe Connections for Heat Pump	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
	Gas Pipe	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
Dimensions (W x H x D)		mm x No.	(1,240 x 1,690 x 760) x 3 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 3 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 3 + (930 x 1,690 x 760) x 1	(1,240 x 1,690 x 760) x 3 + (930 x 1,690 x 760) x 1	(1,240 x1,690 x 760) x 4
Dimensions (W x H x D) - Shipping		mm x No.	(1,280 x 1,825 x 796) x 3 + (960 x 1,825 x 796) x 1	(1,280 x 1,825 x 796) x 3 + (960 x 1,825 x 796) x 1	(1,280 x 1,825 x 796) x 3 + (960 x 1,825 x 796) x 1	(1,280 x 1,825 x 796) x 3 + (960 x 1,825 x 796) x 1	(1,280 x 1,825 x 796) x 4
Net Weight		kg x No.	(310 x 2) + (300 x 1) + (215 x 1)	(310 x 2) + (300 x 1) + (215 x 1)	(310 x 2) + (300 x 1) + (215 x 1)	(310 x 3) + (215 x 1)	(310 x 3) + (237 x 1)
Shipping Weight		kg x No.	(320 x 2) + (312 x 1) + (225 x 1)	(320 x 2) + (312 x 1) + (225 x 1)	(320 x 2) + (312 x 1) + (225 x 1)	(320 x 3) + (225 x 1)	(320 x 3) + (250 x 1)
Sound Pressure Level	Cooling	dB(A)	69.2	69.4	70.0	70.1	70.2
	Heating	dB(A)	71.0	71.4	71.6	72.1	72.1
Sound Power Level	Cooling	dB(A)	95.0	95.4	95.9	95.9	95.9
	Heating	dB(A)	96.6	97.1	97.9	97.9	97.9
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A	R410A
	Precharged Amount in Factory	kg	59.5	59.5	59.5	60.5	64.5
	t-CO_2eq		124.206	124.206	124.206	126.294	134.644
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units 1)			64	64	64	64	64

1) Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.

ARUM880LTE5 / ARUM900LTE5 / ARUM920LTE5
ARUM940LTE5 / ARUM960LTE5

HP			88	90	92	94	96
Model Name	Combination Unit		ARUM880LTE5	ARUM900LTE5	ARUM920LTE5	ARUM940LTE5	ARUM960LTE5
	Independent Unit		ARUM240LTE5 ARUM240LTE5 ARUM240LTE5 ARUM160LTE5	ARUM240LTE5 ARUM240LTE5 ARUM240LTE5 ARUM180LTE5	ARUM240LTE5 ARUM240LTE5 ARUM240LTE5 ARUM200LTE5	ARUM240LTE5 ARUM240LTE5 ARUM240LTE5 ARUM220LTE5	ARUM240LTE5 ARUM240LTE5 ARUM240LTE5 ARUM240LTE5
Capacity	Cooling (Rated)	kW	246.4	252.0	257.6	263.2	268.8
	Heating (Rated)	kW	246.4	252.0	257.6	263.2	268.8
	Heating (Max)	kW	273.2	279.5	285.8	292.1	297.0
Input	Cooling (Rated)	kW	63.13	63.26	64.98	68.15	69.64
	Heating (Rated)	kW	57.95	57.79	59.87	61.82	63.56
	Heating (Max)	kW	68.79	68.34	71.08	73.16	75.19
EER			3.90	3.98	3.96	3.86	3.86
SEER			-	-	-	-	-
COP	Rated Capacity		4.25	4.36	4.30	4.26	4.23
	Max Capacity		3.97	4.09	4.02	3.99	3.95
SCOP			-	-	-	-	-
Exterior	Color		Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray	Morning Gray / Dawn Gray
	RAL Code (Classic)		RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037	RAL 7030 / RAL 7037
Heat Exchanger	Type		Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin	Wide Louver Plus / Black Fin
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 7	(Inverter) x 8	(Inverter) x 8	(Inverter) x 8	(Inverter) x 8
	Motor Output x Number	W x No.	5,300 x 7	(5,300 x 7) + (4,200 x 1)	(5,300 x 7) + (4,200 x 1)	(5,300 x 7) + (4,200 x 1)	5,300 x 8
	Oil Type		FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)	FVC68D (PVE)
	Oil Charge	cc	19,500	20,800	20,800	20,800	20,800
Fan	Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No.	900 x 8	900 x 8	900 x 8	900 x 8	900 x 8
	Air Flow Rate (High)	m^3/min x No.	320 x 4	320 x 4	320 x 4	320 x 4	320 x 4
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP	TOP
Pipe Connections for Heat Recovery	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
	Low Pressure Gas Pipe	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
	High Pressure Gas Pipe	mm (inch)	Ø44.5 (1-3/4)	Ø44.5 (1-3/4)	Ø44.5 (1-3/4)	Ø44.5 (1-3/4)	Ø44.5 (1-3/4)
Pipe Connections for Heat Pump	Liquid Pipe	mm (inch)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)	Ø22.2 (7/8)
	Gas Pipe	mm (inch)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)	Ø53.98 (2-1/8)
Dimensions (W x H x D)		mm x No.	(1,240 x1,690 x 760) x 4	(1,240 x1,690 x 760) x 4	(1,240 x1,690 x 760) x 4	(1,240 x1,690 x 760) x 4	(1,240 x1,690 x 760) x 4
Dimensions (W x H x D) - Shipping		mm x No.	(1,280 x 1,825 x 796) x 4	(1,280 x 1,825 x 796) x 4	(1,280 x 1,825 x 796) x 4	(1,280 x 1,825 x 796) x 4	(1,280 x 1,825 x 796) x 4
Net Weight		kg x No.	(310 x 3) + (237 x 1)	(310 x 3) + (300 x 1)	(310 x 3) + (300 x 1)	(310 x 3) + (300 x 1)	310 x 4
Shipping Weight		kg x No.	(320 x 3) + (250 x 1)	(320 x 3) + (312 x 1)	(320 x 3) + (312 x 1)	(320 x 3) + (312 x 1)	320 x 4
Sound Pressure Level	Cooling	dB(A)	70.3	70.3	70.4	70.9	71.0
	Heating	dB(A)	72.2	72.2	72.5	72.7	73.0
Sound Power Level	Cooling	dB(A)	96.1	96.3	96.6	97.0	97.0
	Heating	dB(A)	98.1	98.1	98.4	99.0	99.0
Communication Cable		mm^2 x No. (VCTF-SB)	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C	1.0 ~ 1.5 x 2C
Refrigerant	Refrigerant Name		R410A	R410A	R410A	R410A	R410A
	Precharged Amount in Factory	kg	64.5	67.0	67.0	67.0	68.0
	t-CO_2eq		134.644	139.863	139.863	139.863	141.950
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of Maximum Connectable Indoor Units 1)			64	64	64	64	64

1) Maximum numbers are prepared based on assumption that all 2.2kW indoor units are connected. The numbers in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160% ~ 200%). The recommended ratio is 130%.

NOTE

1. **Eurovent Test Condition :** For more info regarding program consult www.eurovent-certification.com

2. **Capacities 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 (59°F) WB Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB
   - Piping Length : Interconnected Pipe Length = 7.5m
   - Difference Limit of Elevation (Outdoor ~ Indoor Unit) is 0m.

3. **Wiring cable size must comply with the applicable local and national code.**

4. **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.**

5. **Explanation of Terms**
   - EER : Energy Efficiency Ratio (Cooling)
   - SEER : Seasonal Energy Efficiency Ratio (Refer to Typical Cooling Season)
   - COP : Coefficient Of Performance (Heating)
   - SCOP : Seasonal Coefficient Of Performance (Refer to Typical Heating Season)

6. **Due to our policy of innovation some specifications may be changed without notification.**

7. **This product contains Fluorinated greenhouse gases. (R410A, GWP (Global warming potential) = 2,087.5)**