

#### **LG ELECTRONICS VIETNAM**

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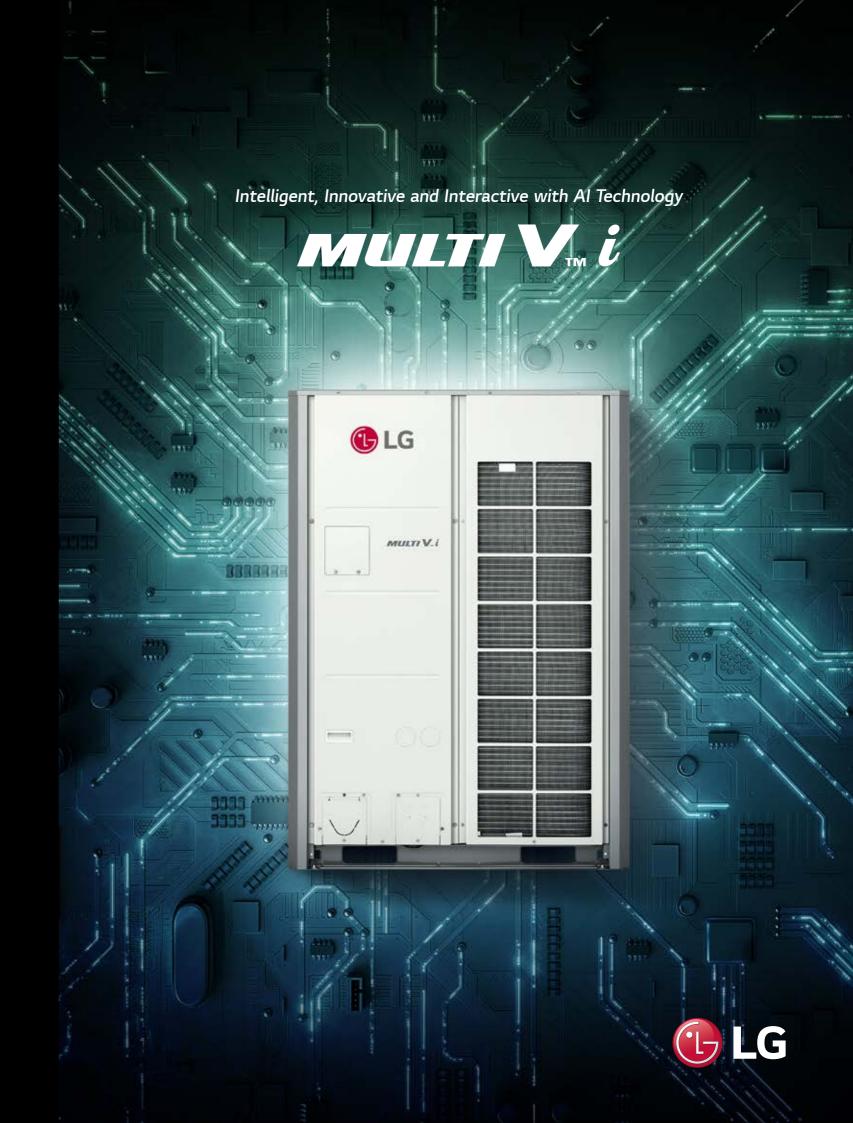


f ĐIỀU HÒA TRUNG TÂM LG



LG Vietnam

This product uses inverter technology, so it can generate harmonics. If local law or the Investor requires harmonic suppression at the construction site, please coordinate with the electrical design unit to take measures to suppress harmonics. Contact your supplier for more detailed information on the electrical characteristics of LG air conditioners.



### Superior customer experience



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**<sub>m</sub> i?

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

#### Artificial Intelligence



Any technique mimicking the intelligence or behavioral pattern of human

#### **Machine Learning**



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

#### **Deep Learning**



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

Highlight of MULTI V... i Line up Specifications 04 14 - INTELLIGENT - Outdoor Units 15 - INNOVATIVE 06 - Indoor Units

- Control Solutions

16

- INTERACTIVE 80 12







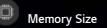
#### Al Engine

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.









Conventional MICOM

About 5,500 times MICOM 0.094MByte

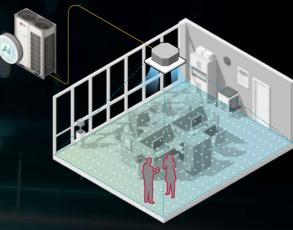
Data Storage Space

MICOM 0.00003GByte

16GByte About 520,000 times

#### **AI Smart Care**

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



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



Running Time to Reach Target

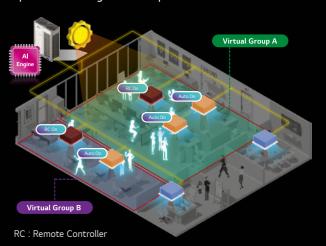
28.5 %

**Energy Saving** 

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

#### Al Indoor Space Care

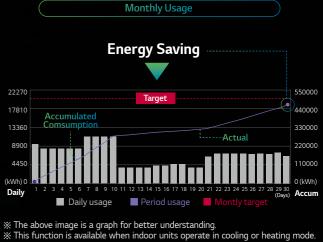
MULTI V i can automatically virtual group adjacent indoor units. And indoor units in the same group can automatically turn on/off according to the load to maintain a uniform temperature throughout the space.



\* This function can be used only when all indoor units are in cooling or

#### 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

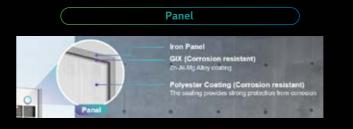
Innovative Performance Realization

# INNOVATIVE



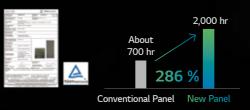
#### **Corrosion Resistance**

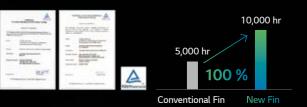
"Corrosion Resistance Black Fin" heat exchanger is designed for improved corrosion resistance. Body panels are also designed for improved corrosion resistance. 2,000 hours for body panels and 10,000 hours for heat exchanger make the product more reliable for customers.





### **Salt Spray Test (SST)** × Process repeated 0.05% Area of defects compared to initial state.





 $\fint \%$  The product is not fully anticorrosive. To install near the sea, additional measures can be required.

#### Maximum 26 HP for a Single Outdoor Unit

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



#### 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.



#### **Powerful Cooling Performance**

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



% Final specifications may change slightly.

#### Powerful & Stable Cooling Performance

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

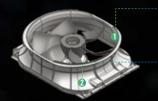
#### Designed Biomimetic Fan

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



#### Compact Aero-Design

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







Motor Mounted Design

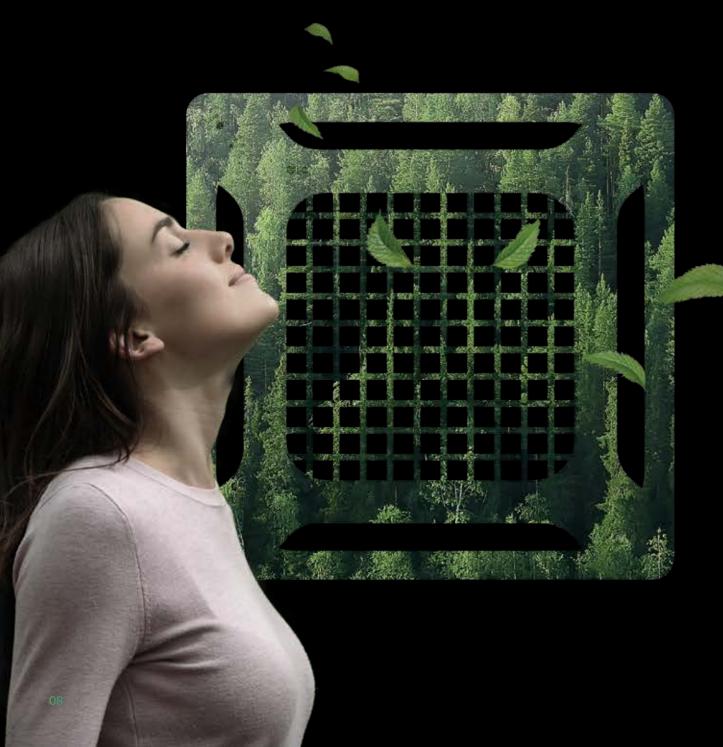




### Highlight of **MULTI** $V_{\scriptscriptstyle{\mathbb{M}}}i$

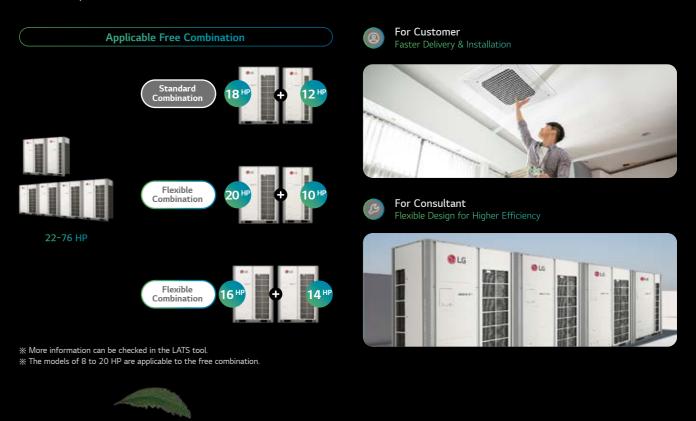
Upgrading & Evolutionary System According to Customer

# INTERACTIVE



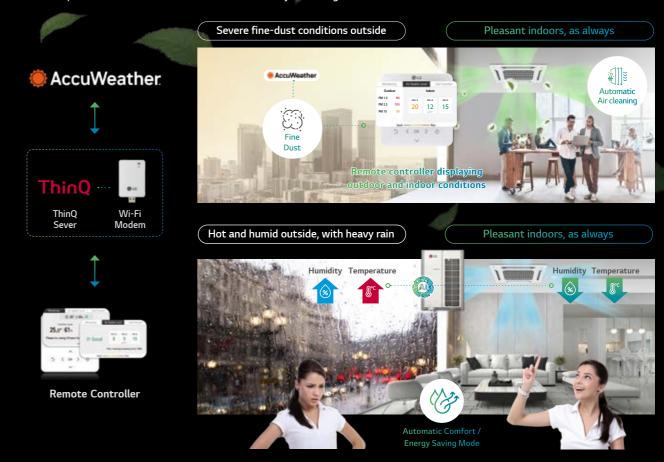
#### Flexible Outdoor Units Combination

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



#### Weather Information Interlocking Control

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



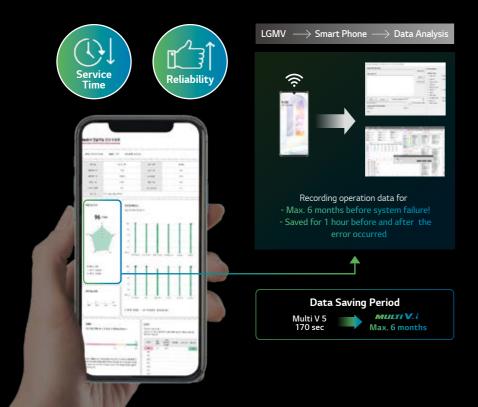
#### Al Smart Diagnosis

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

**LGMV** 

#### ※ UI may be changed without notification.

#### **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.



#### Remote Upgrade System

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





※ LG BECON Cloud is needed.

### Highlight of MULTI V. i

Advanced 5<sup>th</sup> Generation Compressor

# ONLY & BEST

#### **01** Increased Performance

Wide operating range from 10Hz to 165Hz

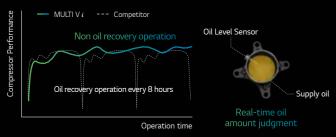
- $\bullet$  Minimum operating temperature  $\,\rightarrow$  Enhanced heating capacity
- $\bullet \ \mathsf{Vapor} \ \mathsf{Injection} \to \mathsf{Improved} \ \mathsf{efficiency}$



#### **03** Smart Oil Management

Oil sensor that allows oil balancing and oil return

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



#### **04** HiPOR<sup>™</sup> (High Pressure Oil Return)

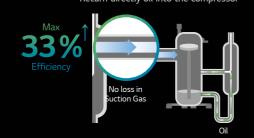
**02** Compressor Balancing Control

operating time of the compressor

Minimize breakdowns by managing the accumulated

Maximized reliability & Efficiency of compressor

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



#### **Air Purification Solution**

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



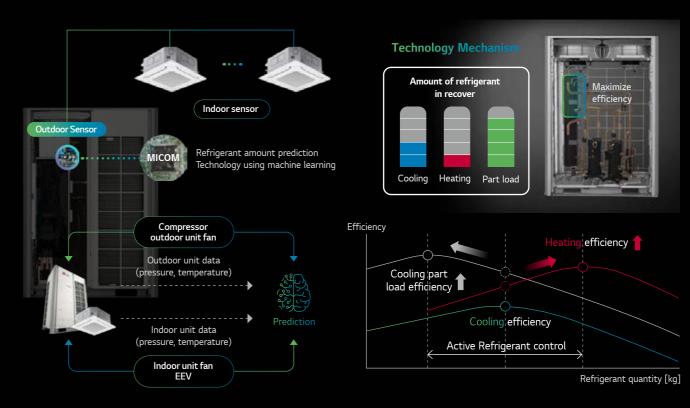
#### Safety Level Improvement with Refrigerant Leak Sensor

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

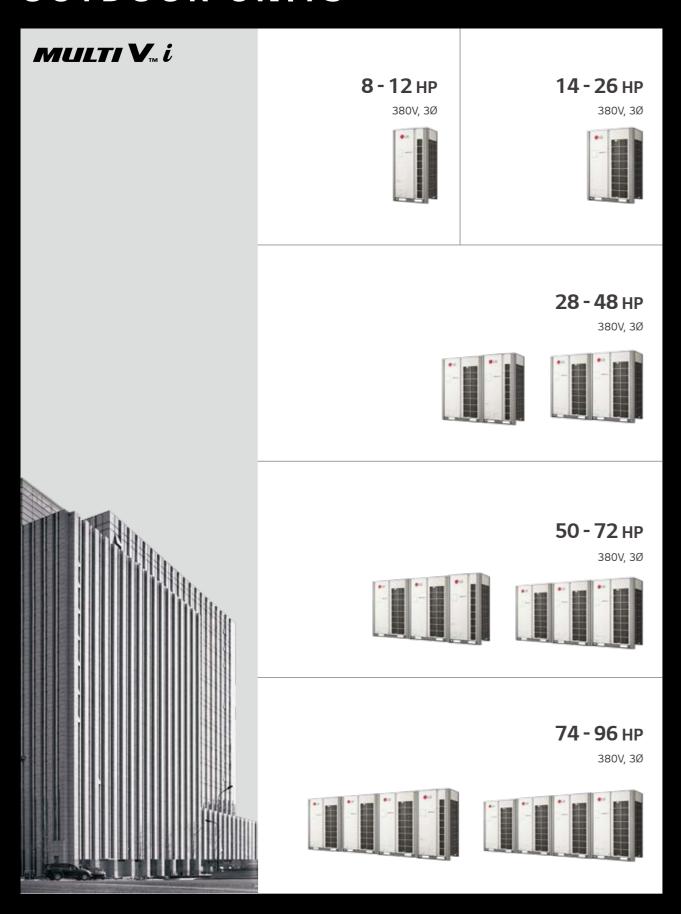


#### **Active Refrigerant Control**

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



# **OUTDOOR UNITS**

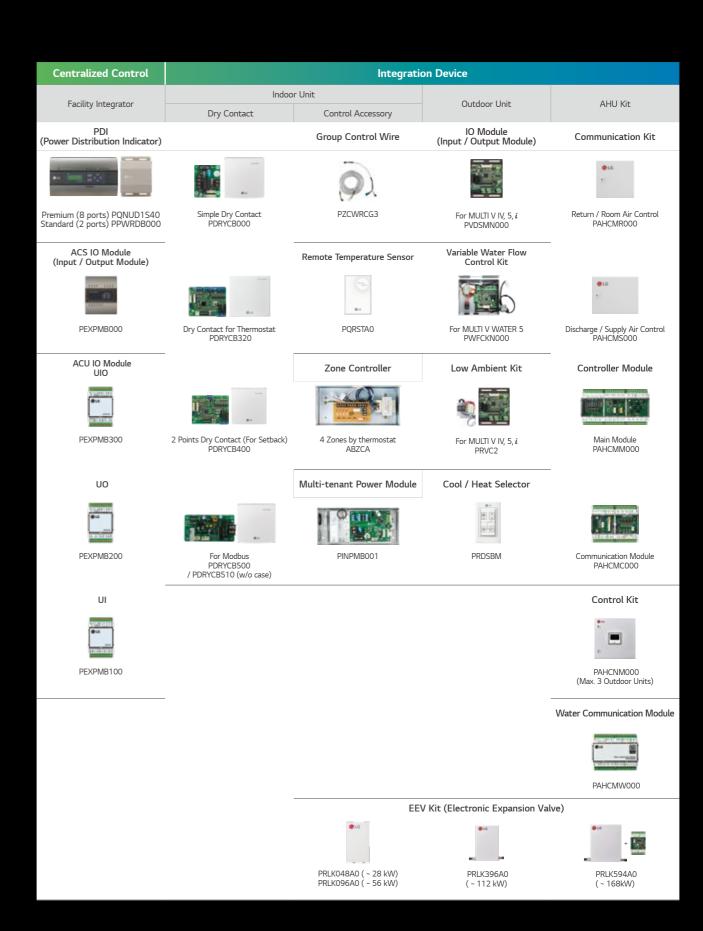


# INDOOR UNITS

kW			2.2	2.8	3.6	4.5	5.6	6.2	7.1	8.2	9.0	10.6	12.3	14.1	15.8	22.4	28.0
		5k	7k	9k	12k	15k	18k	21k	24k	28k	30k	36k	42k	48k	54k	76k	96k
4 <sup>th</sup> generation Wall Mounted	Standard	•	•	•	•	•	•		•		•	•					
	4 Way Cassette Mini (570 x 570)	•	•	•	•	•	•	•									
	4 Way Cassette Standard (840 x 840)								•	•	•	•	•	•	•		
4 <sup>th</sup> generation Ceiling	4 Way Cassette Dual Vane (840 x 840)								•	•	•	•	•	•			
Mounted Cassette	Round Ceiling Cassette								•			•		•			
	2 Way Cassette			•	•		•		•								
	1 Way Cassette		•	•	•		•		•								
4 <sup>th</sup> generation Ceiling	Mid / High Statics		•	•	•	•	•		•	•		•	•	•	•	•	•
Concealed Duct	Low Static	•	•	•	•	•	•	•	•								
4 <sup>th</sup> generation Fresh Air Intake																•	•
4 <sup>th</sup> generation Ceiling Suspended							•		•			•		•			
Floor Standing (P.	AC)													•			•
4 <sup>th</sup> generation	Low Temperature												•				•
HYDRO KIT	High Temperature												•			•	

# **CONTROL SOLUTIONS**

	Individual Control			Centralized Control	
Wired Remote Controller		Wireless Remote	Display	Platform	Gateway
Standard	Simple	Controller	Бізріцу	T tacioiiii	Cateway
Standard III (White)			AC Ez	ACP 5	Modbus RTU gateway
•		1000 1000 1000 1000 1000 1000 1000 100			(4) (1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
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
© (21) © (		T		• [ [ ]	Design On the last of the last
PREMTBB10	PQRCVCL0Q	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		
241			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
PREMTB001	PQRCHCAOQW (Simple for Hotel)		PACS5A000 (Indoor Unit ~ 128) BACnet IP / Modbus TCP	_	INKNXLGE001R000 (For Indoor Unit)
Standard II (Black)					PI485
PREMTBB01	PQRCHCAOQ (Simple for Hotel)				For Indoor Unit (ERV) PHINFP14A0
Premium		-			
PREMTA000 PREMTA000A PREMTA000B					For AWHP PP485A00T
					For Outdoor Unit (SINGLE / MULTI / THERMA V) PMNFP14A1



#### **SPECIFICATIONS**

## ARUN080LTE6 / ARUN100LTE6 / ARUN120LTE6 / ARUN140LTE6 / ARUN160LTE6





	HP		8	10	12	14	16	
Model Name	Independent Unit		ARUN080LTE6	ARUN100LTE6	ARUN120LTE6	ARUN140LTE6	ARUN160LTE6	
Capacity	C!: (D-+)	kW	22.4	28.0	33.6	39.2	44.8	
	Cooling (Rated)	Btu/h	76,400	95,500	114,600	133,800	152,900	
		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	
Input	Cooling (Rated)	kW	4.39	5.70	7.37	8.55	10.08	
прис	Heating (Rated)	kW	4.67	5.78	7.60	9.30	10.80	
EER (Rated)			5.10	4.91	4.56	4.58	4.44	
COP (Rated)			5.40	5.45	4.97	4.74	4.67	
Power Fatcor	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) m³/Min Ft²/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	
iver vveigir		lbs	414 × 1	414 × 1	414 × 1	485 × 1	485 × 1	
Sound Pressure	Cooling (Rated)	dB (A)	57	57.5	59	60	60.5	
Soulid Flessule	Heating (Rated)	dB (A)	58	58.5	60	61	61.5	
Sound Power	Cooling (Rated)	dB (A)	78	78	79	82	83	
Souria Power	Heating (Rated)	dB (A)	78	79	80	83	85	
Communication Ca	able	mm² x No.	2C × 1.0 ~ 1.5					
	Name		R410A	R410A	R410A	R410A	R410A	
	Precharged	kg	8.0	8.0	8.0	11.0	11.0	
Refrigerant	Amount	lbs	17.6	17.6	17.6	24.3	24.3	
	t-Co <sub>2</sub> .eq		16.7	16.7	16.7	23.0	23.0	
	Control		Electronic Expansion Valve					
p. 6 1		380 ~ 415, 3, 50	380 ~ 415, 3, 50	380 ~ 415, 3, 50	380 ~ 415, 3, 50	380 ~ 415, 3, 50		
Power Supply			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)	

<sup>\*</sup> The number in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160-200%). The recommended ratio is 130%.

## ARUN180LTE6 / ARUN200LTE6 / ARUN220LTE6 / ARUN240LTE6 / ARUN260LTE6



	HP		18	20	22	24	26	
Model Name	Independent Unit		ARUN180LTE6	ARUN200LTE6	ARUN220LTE6	ARUN240LTE6	ARUN260LTE6	
	Cli (D-+1)	kW	50.4	56.00	61.6	67.2	72.8	
Capacity	Cooling (Rated)	Btu/h	172,000	191,000	210,200	229,300	248,400	
		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	
	Cooling (Rated)	kW	10.40	11.72	14.10	15.90	18.67	
Input	Heating (Rated)	kW	11.20	14.60	16.70	18.00	18.30	
EER (Rated)			4.85	4.78	4.37	4.23	3.90	
COP (Rated)			5.06	4.32	4.15	4.13	4.06	
Power Fatcor	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 × 2	5,300 × 2	5,300 × 2	5,300 × 2	5,300 × 2	
	Туре		Propeller Fan					
	Motor Outout x Number	W x No.	900 × 2	900 × 2	900 × 2	900 × 2	900 × 2	
	Air Flow Rage (High)	m³/Min	320 × 1	320 × 1	320 × 1	320 × 1	320 × 1	
Fan	All Flow Rage (Flight)	Ft <sup>2</sup> /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					
	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	
Net 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	
Journa Fressure	Heating (Rated)	dB (A)	62	63.5	64.5	66	66	
Sound Power	Cooling (Rated)	dB (A)	85	86	86	88	88	
Souria Fower	Heating (Rated)	dB (A)	86	87	88	89	89	
Communication Ca	able	mm² x No.	2C × 1.0 ~ 1.5					
	Name		R410A	R410A	R410A	R410A	R410A	
Refrigerant	Precharged	kg	13.0	13.0	16.0	16.0	16.0	
	Amount	lbs	28.7	28.7	35.3	35.3	35.3	
	t-Co <sub>2</sub> ,eq		27.1	27.1	33.4	33.4	33.4	
	Control		Electronic Expansion Valve					
Davis Const.		380 ~ 415, 3, 50	380 ~ 415, 3, 50	380 ~ 415, 3, 50	380 ~ 415, 3, 50	380 ~ 415, 3, 50		
Power Supply		380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60	380, 3, 60		
* Number of Maximum Connectable Indoor Units			29 (45)	29 (45)	35 (56)	39 (61)	42 (64)	

<sup>\*</sup> The number in parentheses means maximum connectable indoor units in accordance with outdoor units combination (160~200%). The recommended ratio is 130%.

 $<sup>\</sup>fint \fint \fin$