



## LG HVAC SOLUTION

# MULTI V<sup>TM</sup> IV PRO



**LG Electronics**  
**AE Company, Commercial Air Conditioning**

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# MULTI V<sup>TM</sup> IV PRO

## About LG VRF Technology

Variable Refrigerant Flow is a technology introduced as a system to minimize efficiency losses and provide sustainable energy benefits. LG VRF systems are engineered to save on the cost of ducts, distribution fans, water pumps and water piping. VRF systems have a lower life cycle cost of any system on the market today.

## Why LG VRF?

The benefits are numerous; energy efficiency for owners, installation easiness for installers, diverse units that meet any designer's demands, and outstanding performance for users.

## Inverter Technology

With LG's latest inverter technology compressor, the LG Multi V IV PRO system matches variable load. This helps prevent constant cycling and results in tight temperature control, superior dehumidification, and optimized efficiency. Occupants are able to stay comfortable while reducing utility costs.

## Multi V IV PRO Technology

Multi V IV PRO is optimized for various building solutions such as office, hotel and educational facilities, and designed to provide all the standard benefits of the latest LG VRF system. A more localized cooling and heating performance and wide selection of line-up enables this product to respond to various projects that both owners and tenants can rely on.

## PRODUCT LINE-UP

The capacity range of total line-up is 8~60HP.

HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34
Standard (220V)	UX5		UX6		UX5+UX5		UX5+UX6							

HP	36	38	40	42	44	46	48	50	52	54	56	58	60	
Standard (220V)	UX6+UX6		UX6+UX5+UX5		UX6+UX6+UX5		UX6+UX6+UX6							



# EXCEPTIONAL EFFICIENCY

## LG's 4<sup>th</sup> Generation Inverter Compressor

Multi V IV PRO has high efficiency all inverter scroll compressor with frequency range 15Hz~150Hz.

- World Best Compressor Speed 150Hz**
  - Rapid response capability
  - Down to 15Hz : part load efficiency improvement
- Inverter Scroll Compressor**
  - Inverter SCROLL compressor of high efficiency
  - Suitable for more than 6HP
  - Low vibration / Low noise
- 6 By-pass Valve**
  - Compressor reliability is maximized with 6 By-pass Valve
  - Prevent compressor damage due to excessively compressed refrigerant more efficiently than 4 by-pass valve

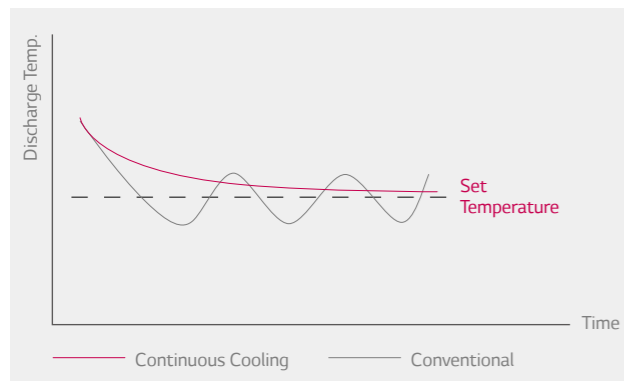
Operation range (Hz) graph showing Conventional (20-120 Hz) vs MULTI V PRO (15-150 Hz).

High-pressure gas and Low-pressure gas flow diagrams are also shown.

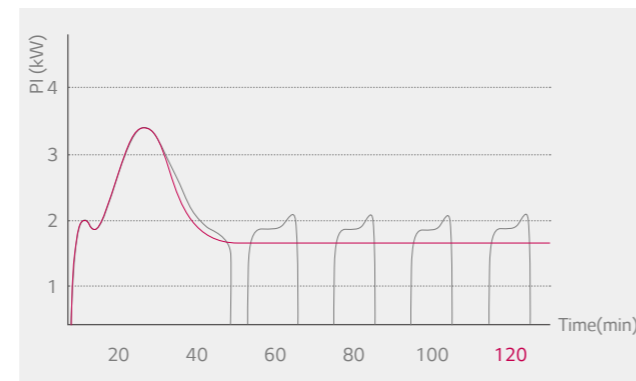
## Comfort Cooling

Without stopping, this function is able to maintain operation at mild cooling mode around the set temperature. You can experience more comfortable indoor environment while saving energy.

### Even Cooling Temperature



### Increased Thermo-on Time



Test Condition : Outdoor 35°C, Indoor 24°C / \* LG Internal Test result

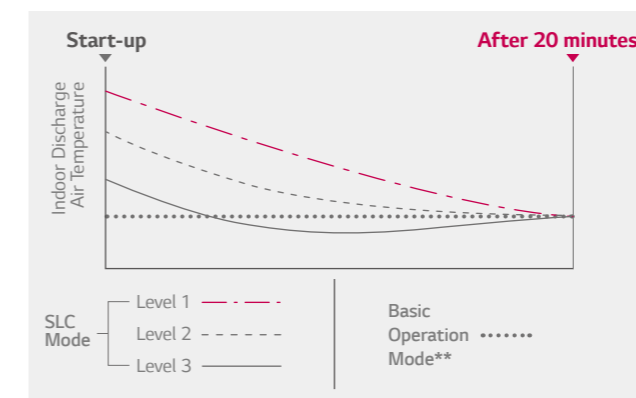
## Smart Load Control

To save energy, Multi V IV PRO changes indoor discharge air temperature continuously according to load.



### Start-up Operation

Operates for 20 minutes after Start-up. 3 levels of SLC operation can be set to save energy. (if not, can run in Basic Operation mode)



### Energy Saving Ratio\*

- By setting the SLC mode from Level 1 to Level 3, max. 20% of energy can be saved compared to Basic mode during Start-up operation.

- After 20 minutes, during Auto-reactive Operation, SLC mode saves max. 32% Energy according to outdoor air temperature.

Mode	Operation	Start-up	Auto-reactive (by Outdoor Air Temp.)		
			22°C	30°C	35°C
SLC	Level 1	20%			
	Level 2	8%	32%	30%	0%
	Level 3	0%			
Basic		0%	0%	0%	0%

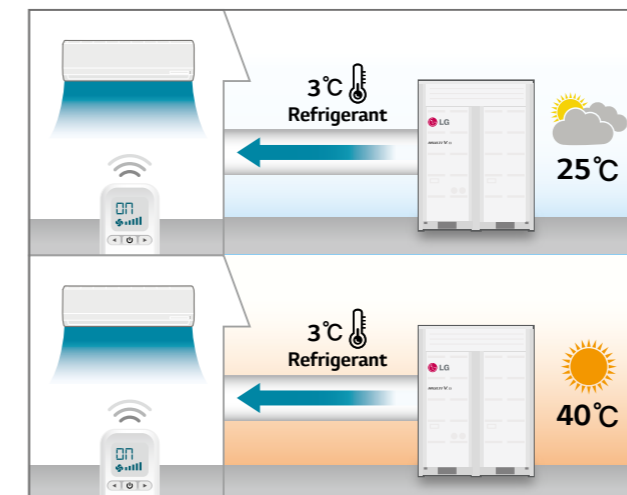
\*Energy Saving Ratio: Ratio of energy saved, compared to 100% power consumption for 30 minutes (LG internal test result)

\*\*Basic Operation : Indoor discharge air temperature is constant regardless of variable heat load, so operating efficiency is not relatively high

### Auto-reactive Operation

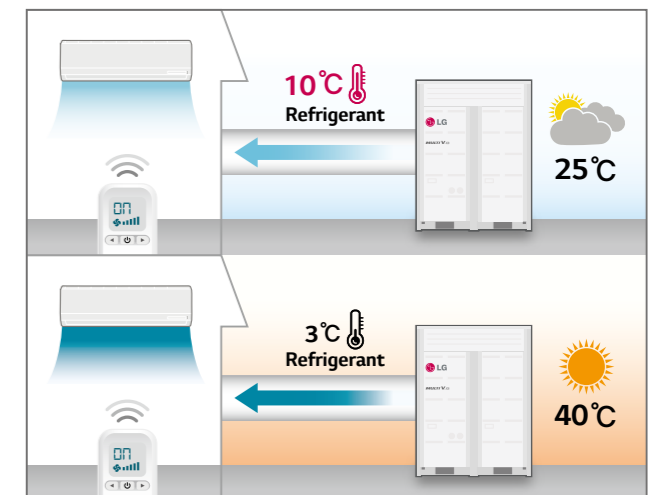
Automatically changes discharge air temperature according to the simultaneous loads. (OAT, IAT & Target temp.)

#### Conventional



- Variable : Indoor Air Temperature

#### Multi V IV PRO



- Variable : Indoor Air Temperature, Setting Temperature / Outdoor Air Temperature

- Accurate operation control considering various circumstances.

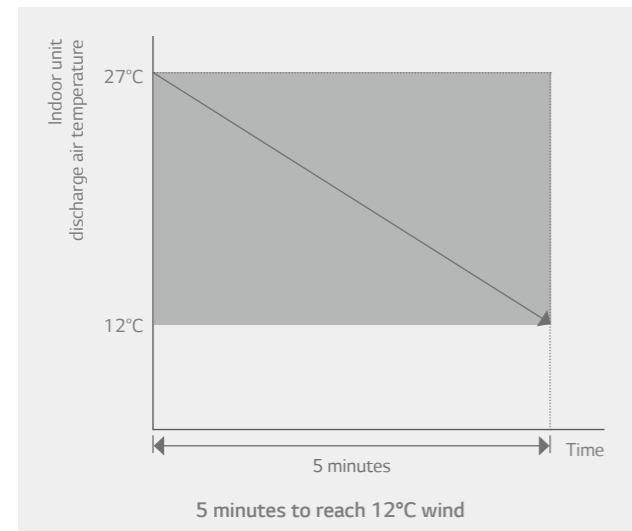
➔ **Energy Saving 32%**

# OUTSTANDING PERFORMANCE

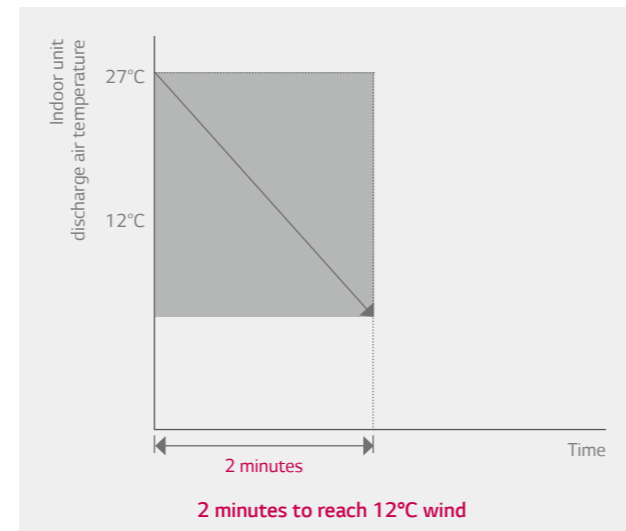
## Fast Cooling

Powerful cooling by all inverter scroll compressor and optimized cycle design.  
Cools indoor unit discharge air up to 60% faster.

### Conventional\*



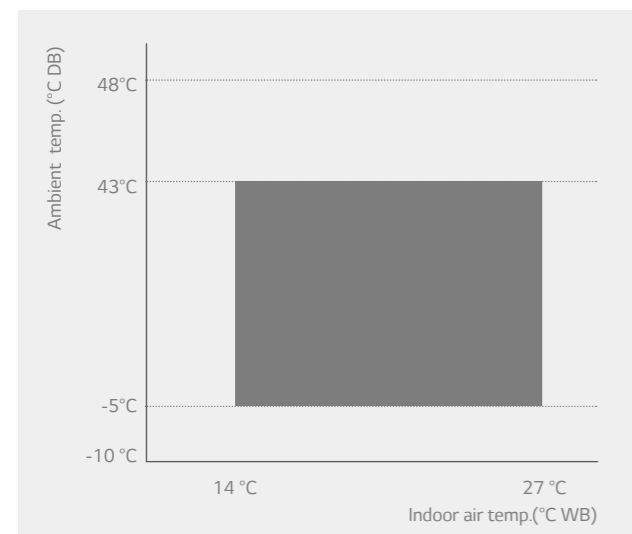
### Multi V IV PRO



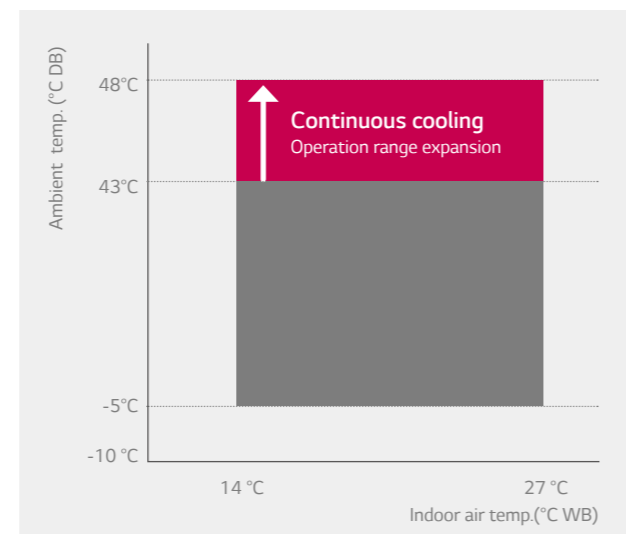
## Wide Operation Range

Multi V IV PRO has wide operation range with cooling, at outdoor temperature of 5°C ~ 48°C

### Conventional\*



### Multi V IV PRO



## Auto Dust Removal

Multi V IV PRO can remove dust(sand, leaves, and etc.) on heat exchanger of outdoor unit.  
This function is able to improve the heat exchange efficiency to maintain clean state on heat exchanger of ODU.

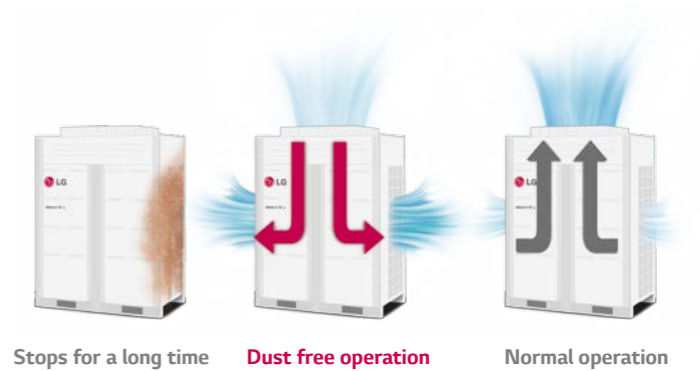
### Conventional\*

- Dust remains on heat exchanger of outdoor unit



### Auto Dust Removal

- Dust is removed on heat exchanger of outdoor unit by reverse rotation of fan  
- With Dip switch setting, 5 min. operation in every 2 hours.



\* Conventional : Multi V III

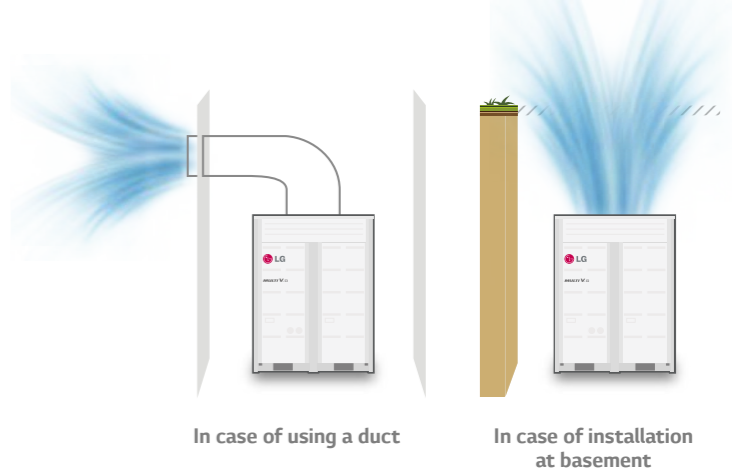
## ODU E.S.P.(External Static Pressure) Control

By E.S.P. Control, Multi V IV PRO secures the flow rate of ODU, enabling the duct as a discharge fan, or installing at a basement.

### Detail of E.S.P. Control



### Case of E.S.P. Control



### High E.S.P. Mode

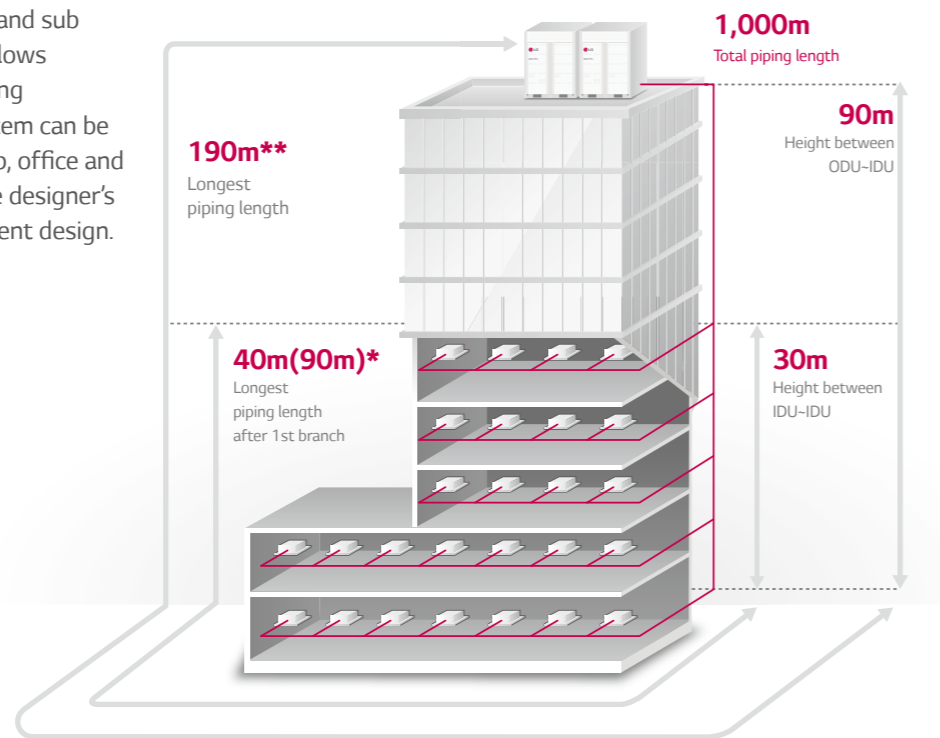
- 3 Steps control (ESP 20~40Pa / 40~60Pa / 60~80Pa)  
- Installation can be anywhere like a basement facility room

\* Installation condition - Equivalent Duct length : max. 40m (Duct Pressure loss : 1Pa/m)

# DESIGN WITHOUT LIMIT

## Expanded Piping Capabilities

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



\*Liquid piping size up and dedicated setting on outdoor unit is required. \*\* Equivalent

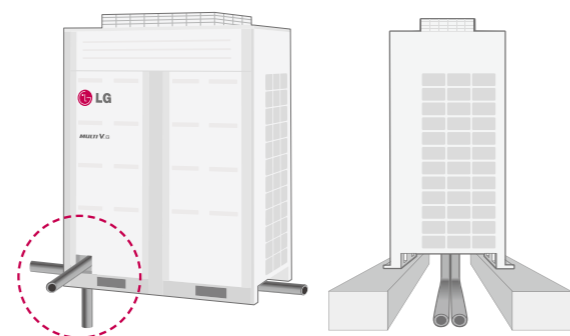
## Improved Installation

Elimination of common pipe between outdoor units reduces installation time, and application of 4-way piping improves flexibility of installation.

### Elimination of Common Pipe



### 4 Way Piping

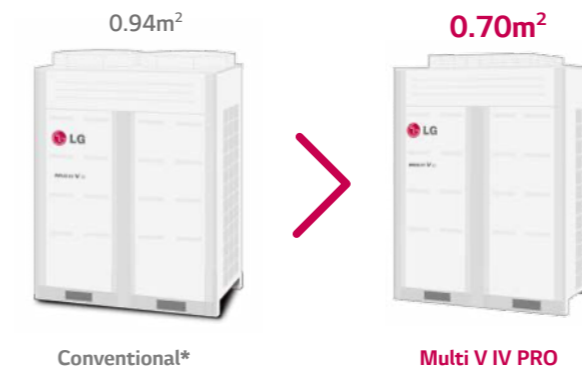


Installation of bottom piping is available

## Compact Size & Light Weight

### Compact Footprint Area

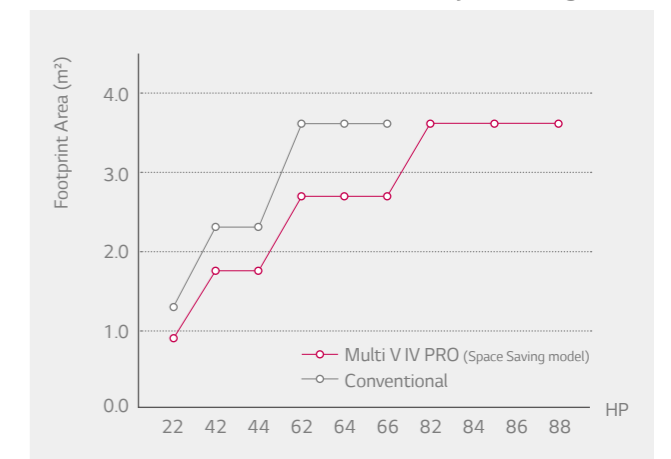
#### Conventional vs. Multi V IV PRO



26% smaller footprint area\*  
Saves installation space and eases transportation

\* Conventional : Multi V III 14HP

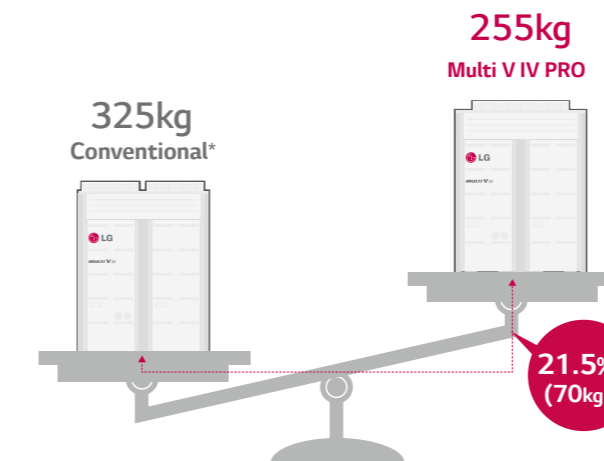
#### Conventional vs. Multi V IV PRO (Space Saving model)



Multi V IV PRO (Space Saving model) is maximum 32.9% smaller than Conventional model (22HP)

### Light Weight

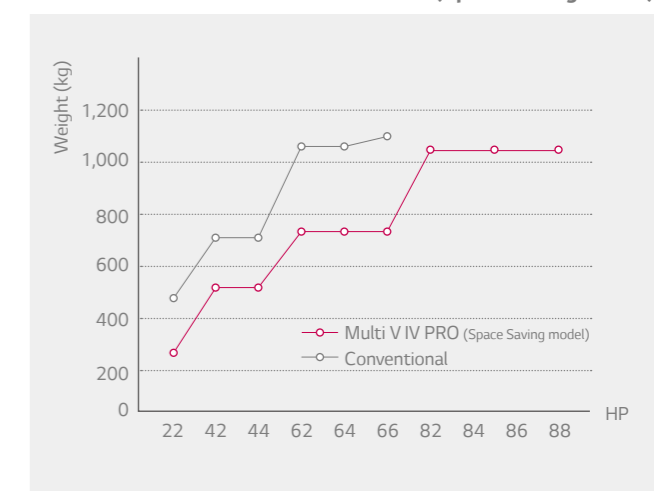
#### Conventional vs. Multi V IV PRO



21.5% lighter than Conventional model  
Easy transportation and installation available

\* Conventional : Multi V III 20HP

#### Conventional vs. Multi V IV PRO (Space Saving model)



Multi V IV PRO(Space Saving model) is maximum 46.9% lighter than Conventional model (22HP)

## Single Unit Model

HP		8	10	12	14	
Model Name	Combination Unit	ARUN080BLS4	ARUN100BLS4	ARUN120BLS4	ARUN140BLS4	
	Independent Unit	ARUN080BLS4	ARUN100BLS4	ARUN120BLS4	ARUN140BLS4	
Capacity <sup>1)</sup> (Rated)	Cooling	kW	22.4	28.0	33.6	39.2
		kcal/h	19,300	24,100	28,900	33,700
		Btu/h	76,400	95,900	114,700	133,800
	Heating	kW	22.4	28.0	33.6	39.2
		kcal/h	19,300	24,100	28,900	33,700
		Btu/h	76,400	95,900	114,700	133,800
Input (Rated) <sup>1)</sup>	Cooling	kW	5.65	7.50	9.30	10.80
	Heating	kW	5.20	7.30	8.60	9.92
Power Factor <sup>6)</sup>	Rated	-	0.93	0.93	0.93	0.93
Casing Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray	
Heat Exchanger		Gold fin	Gold fin	Gold fin	Gold fin	
Compressor	Type	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	
	Piston Displacement	cm <sup>3</sup> /rev	43.8	43.8	62.1	62.1
	Number of Revolution	rev/min	3,600	3,600	3,600	3,600
	Motor Output x Number	W x No.	4,200	4,200	6,800	6,800
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Fan	Type	Axial fan	Axial fan	Axial fan	Axial fan	
	Motor Output x Number	W	750x1	750x1	750x1	750x1
	Air Flow Rate	m <sup>3</sup> /min	210	210	210	210
		ft <sup>3</sup> /min	7,416	7,416	7,416	7,416
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Piping Connections	Liquid	mm(inch)	9.52(3/8)	9.52(3/8)	12.7(1/2)	12.7(1/2)
	Gas	mm(inch)	19.05(3/4)	22.2(7/8)	28.58(1-1/8)	28.58(1-1/8)
Dimensions(W x H x D)	mm	(920×1,680×760)×1	(920×1,680×760)×1	(920×1,680×760)×1	(920×1,680×760)×1	
	inch	(36-7/32×66-5/32×29-29/32)×1	(36-7/32×66-5/32×29-29/32)×1	(36-7/32×66-5/32×29-29/32)×1	(36-7/32×66-5/32×29-29/32)×1	
Net Weight	kg	175×1	175×1	175×1	190×1	
	lbs	386×1	386×1	386×1	419×1	
Sound Pressure Level		58.5	58.5	59.0	60.0	
Sound Power Level		79.0	79.0	79.0	80.0	
Protection Devices	High pressure	-	High pressure sensor / High pressure switch			
	Compressor / Fan	-	Over-heat protection / Fan driver overload protector			
	Inverter	-	Over-heat protection / Over-current protection			
Communication Cable	No×mm <sup>2</sup> (VCTF-SB)	2C×1.0-1.5	2C×1.0-1.5	2C×1.0-1.5	2C×1.0-1.5	
Refrigerant	Refrigerant name		R410A	R410A	R410A	
	Precharged Amount	kg	5.0	5.0	5.0	6.6
		lbs	11.0	11.0	11.0	14.6
Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	
Power Supply	V, ∅, Hz		220-240, 3, 50	220-240, 3, 50	220-240, 3, 50	220-240, 3, 50
			220, 3, 60	220, 3, 60	220, 3, 60	220, 3, 60
Number of maximum connectable indoor units <sup>2)</sup>		13(20)	16(25)	20(30)	23(35)	

Images of outdoor unit combination are in page 4, 'PRODUCT LINE UP'

## Single Unit Model

HP		16	18	20	
Model Name	Combination Unit	ARUN160BLS4	ARUN180BLS4	ARUN200BLS4	
	Independent Unit	ARUN160BLS4	ARUN180BLS4	ARUN200BLS4	
Capacity <sup>1)</sup> (Rated)	Cooling	kW	44.8	50.4	56.0
		kcal/h	38,500	43,300	48,200
		Btu/h	152,900	172,000	191,100
	Heating	kW	44.8	50.4	56.0
		kcal/h	38,500	43,300	48,200
		Btu/h	152,900	172,000	191,100
Input (Rated) <sup>1)</sup>	Cooling	kW	12.30	14.60	15.40
	Heating	kW	13.10	13.70	15.10
Power Factor <sup>6)</sup>	Rated	-	0.93	0.93	0.93
Casing Color		Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray	
Heat Exchanger		Gold fin	Gold fin	Gold fin	
Compressor	Type	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	
	Piston Displacement	cm <sup>3</sup> /rev	62.1	43.8×2	43.8×2
	Number of Revolution	rev/min	3,600	3,600×2	3,600×2
	Motor Output x Number	W x No.	6,800	4,200×2	4,200×2
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Fan	Type	Axial fan	Axial fan	Axial fan	
	Motor Output x Number	W	1,200x1	1,200x1	1,200x1
	Air Flow Rate	m <sup>3</sup> /min	270	270	270
		ft <sup>3</sup> /min	9,535	9,535	9,535
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP
Piping Connections	Liquid	mm(inch)	12.7(1/2)	15.88(5/8)	15.88(5/8)
	Gas	mm(inch)	28.58(1-1/8)	28.58(1-1/8)	28.58(1-1/8)
Dimensions(W x H x D)	mm	(1,240×1,680×760)×1	(1,240×1,680×760)×1	(1,240×1,680×760)×1	
	inch	(48-13/16×66-5/32×29-29/32)×1	(48-13/16×66-5/32×29-29/32)×1	(48-13/16×66-5/32×29-29/32)×1	
Net Weight	kg	205×1	245×1	255×1	
	lbs	452×1	540×1	562×1	
Sound Pressure Level		62.0	62.0	62.0	
Sound Power Level		82.0	82.0	82.0	
Protection Devices	High pressure	-	High pressure sensor / High pressure switch		
	Compressor / Fan	-	Over-heat protection / Fan driver overload protector		
	Inverter	-	Over-heat protection / Over-current protection		
Communication Cable	No×mm <sup>2</sup> (VCTF-SB)	2C×1.0-1.5	2C×1.0-1.5	2C×1.0-1.5	
Refrigerant	Refrigerant name		R410A	R410A	R410A
	Precharged Amount	kg	6.0	6.0	7.6
		lbs	13.2	13.2	16.8
Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	
Power Supply	V, ∅, Hz		220-240, 3, 50	220-240, 3, 50	220-240, 3, 50
			220, 3, 60	220, 3, 60	220, 3, 60
Number of maximum connectable indoor units <sup>2)</sup>		26(40)	29(45)	32(50)	

Images of outdoor unit combination are in page 4, 'PRODUCT LINE UP'

## Standard Combination

HP			22	24	26	28
Model Name	Combination Unit		ARUN220BLS4	ARUN240BLS4	ARUN260BLS4	ARUN280BLS4
	Independent Unit		ARUN120BLS4	ARUN120BLS4	ARUN140BLS4	ARUN160BLS4
			ARUN100BLS4	ARUN120BLS4	ARUN120BLS4	ARUN120BLS4
Capacity <sup>1)</sup> (Rated)	Cooling	kW	61.6	67.2	72.8	78.4
		kcal/h	53,000	57,800	62,600	67,400
		Btu/h	210,600	229,400	248,500	267,600
	Heating	kW	61.6	67.2	72.8	78.4
		kcal/h	53,000	57,800	62,600	67,400
		Btu/h	210,600	229,400	248,500	267,600
Input (Rated) <sup>1)</sup>	Cooling	kW	16.80	18.60	20.10	21.60
	Heating	kW	15.90	17.20	18.52	21.70
Power Factor <sup>6)</sup>	Rated	-	0.93	0.93	0.93	0.93
Casing Color			Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
Heat Exchanger			Gold fin	Gold fin	Gold fin	Gold fin
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm <sup>3</sup> /rev	43.8+62.1	62.1×2	62.1×2	62.1×2
	Number of Revolution	rev/min	3,600×2	3,600×2	3,600×2	3,600×2
	Motor Output x Number	W x No.	4200+6800	6,800×2	6,800×2	6,800×2
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Fan	Type		Axial fan	Axial fan	Axial fan	Axial fan
	Motor Output x Number	W	750x2	750x2	750x2	1,200+750
	Air Flow Rate	m <sup>3</sup> /min	210x2	210x2	210x2	270+210
		ft <sup>3</sup> /min	7,416x2	7,416x2	7,416x2	9,535+7,416
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Piping Connections	Liquid	mm(inch)	15.88(5/8)	15.88(5/8)	19.05(3/4)	19.05(3/4)
	Gas	mm(inch)	28.58(1-1/8)	34.9(1-3/8)	34.9(1-3/8)	34.9(1-3/8)
Dimensions(W x H x D)		mm	(920×1,680×760)×2	(920×1,680×760)×2	(920×1,680×760)×2	(1,240×1,680×760)×1 +(920×1,680×760)×1
		inch	(36-7/32×66-5/32 ×29-29/32)×2	(36-7/32×66-5/32 ×29-29/32)×2	(36-7/32×66-5/32 ×29-29/32)×2	(48-13/16×66-5/32×29-29/32)×1 +(36-7/32×66-5/32×29-29/32)
Net Weight		kg	180×1+175×1	180×2	190×1+180×1	205×1+180×1
		lbs	397×1+386×1	397×2	419×1+397×1	452×1+397×1
Sound Pressure Level		dB(A)	61.8	62.0	62.5	63.8
Sound Power Level		dB(A)	82.0	82.0	82.5	83.8
Protection Devices	High pressure	-	High pressure sensor / High pressure switch			
	Compressor / Fan	-	Over-heat protection / Fan driver overload protector			
	Inverter	-	Over-heat protection / Over-current protection			
Communication Cable	Noxmm <sup>2</sup> (VCTF-SB)		2C×1.0-1.5	2C×1.0-1.5	2C×1.0-1.5	2C×1.0-1.5
Refrigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount	kg	5.0×2	5.0	5.0	6.0×1+5.0×1
		lbs	11.0×2	11.0	11.0	13.2×1+11.0×1
Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	
Power Supply	V, ∅, Hz		220-240, 3, 50	220-240, 3, 50	220-240, 3, 50	220-240, 3, 50
			220, 3, 60	220, 3, 60	220, 3, 60	220, 3, 60
Number of maximum connectable indoor units <sup>2)</sup>			35(44)	13(20)	16(25)	45(56)

Images of outdoor unit combination are in page 4, 'PRODUCT LINE UP'

## Standard Combination

HP			30	32	34	36
Model Name	Combination Unit		ARUN300BLS4	ARUN320BLS4	ARUN340BLS4	ARUN360BLS4
	Independent Unit		ARUN180BLS4	ARUN200BLS4	ARUN200BLS4	ARUN200BLS4
			ARUN120BLS4	ARUN120BLS4	ARUN140BLS4	ARUN160BLS4
Capacity <sup>1)</sup> (Rated)	Cooling	kW	84.0	89.6	95.2	100.8
		kcal/h	72,200	77,100	82,100	86,700
		Btu/h	286,700	305,800	324,900	344,000
	Heating	kW	84.0	89.6	95.2	100.8
		kcal/h	72,200	77,100	82,100	86,700
		Btu/h	286,700	305,800	324,900	344,000
Input (Rated) <sup>1)</sup>	Cooling	kW	23.90	24.70	26.20	27.70
	Heating	kW	22.30	23.70	25.02	28.20
Power Factor <sup>6)</sup>	Rated	-	0.93	0.93	0.93	0.93
Casing Color			Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
Heat Exchanger			Gold fin	Gold fin	Gold fin	Gold fin
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm <sup>3</sup> /rev	(43.8 x 2)+62.1	(43.8 x 2)+62.1	(43.8 x 2)+62.1	(43.8 x 2)+62.1
	Number of Revolution	rev/min	(3,600 x 2)+3,600	(3,600 x 2)+3,600	(3,600 x 2)+3,600	(3,600 x 2)+3,600
	Motor Output x Number	W x No.	(4,200 x 2)+6,800	(4,200 x 2)+6,800	(4,200 x 2)+6,800	(4,200 x 2)+6,800
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Fan	Type		Axial fan	Axial fan	Axial fan	Axial fan
	Motor Output x Number	W	1,200+750	1,200+750	1,200+750	1,200x2
	Air Flow Rate	m <sup>3</sup> /min	270+210	270+210	270+210	270x2
		ft <sup>3</sup> /min	9,535+7,416	9,535+7,416	9,535+7,416	9,535x2
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	TOP	TOP	TOP	TOP
Piping Connections	Liquid	mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Gas	mm(inch)	34.9(1-3/8)	34.9(1-3/8)	34.9(1-3/8)	41.3(1-5/8)
Dimensions(W x H x D)		mm	(1,240×1,680×760)×1 +(920×1,680×760)×1	(1,240×1,680×760)×1 +(920×1,680×760)×1	(1,240×1,680×760)×1 +(920×1,680×760)×1	(1,240×1,680×760)×2
		inch	(48-13/16×66-5/32×29-29/32)×1 +(36-7/32×66-5/32×29-29/32)	(48-13/16×66-5/32×29-29/32)×1 +(36-7/32×66-5/32×29-29/32)	(48-13/16×66-5/32×29-29/32)×1 +(36-7/32×66-5/32×29-29/32)	(48-13/16×66-5/32 ×29-29/32)×2
Net Weight		kg	245×1+180×1	255×1+180×1	255×1+190×1	255×1+205×1
		lbs	540×1+397×1	562×1+397×1	562×1+419×1	562×1+452×1
Sound Pressure Level		dB(A)	63.8	63.8	64.1	65.0
Sound Power Level		dB(A)	83.8	83.8	84.1	85.0
Protection Devices	High pressure	-	High pressure sensor / High pressure switch			
	Compressor / Fan	-	Over-heat protection / Fan driver overload protector			
	Inverter	-	Over-heat protection / Over-current protection			
Communication Cable	Noxmm <sup>2</sup> (VCTF-SB)		2C×1.0-1.5	2C×1.0-1.5	2C×1.0-1.5	2C×1.0-1.5
Refrigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount	kg	6.0×1+5.0×1	7.6×1+5.0×1	7.6×1+6.6×1	7.6×1+6.0×1
		lbs	13.2×1+11.0×1	16.8×1+11.0×1	16.8×1+14.6×1	16.8×1+13.2×1
Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	
Power Supply	V, ∅, Hz		220-240, 3, 50	220-240, 3, 50	220-240, 3, 50	220-240, 3, 50
			220, 3, 60	220, 3, 60	220, 3, 60	220, 3, 60
Number of maximum connectable indoor units <sup>2)</sup>			49(60)	52(64)	55(64)	58(64)

Images of outdoor unit combination are in page 4, 'PRODUCT LINE UP'

## Standard Combination

HP			38	40	42	44
Model Name	Combination Unit		ARUN380BLS4	ARUN400BLS4	ARUN420BLS4	ARUN440BLS4
	Independent Unit		ARUN200BLS4	ARUN200BLS4	ARUN180BLS4	ARUN200BLS4
			ARUN180BLS4	ARUN200BLS4	ARUN140BLS4	ARUN140BLS4
Capacity <sup>1)</sup> (Rated)	Cooling	kW	106.4	112.0	117.6	123.2
		kcal/h	91,500	96,400	101,100	106,000
		Btu/h	363,100	382,200	401,700	420,800
	Heating	kW	106.4	112.0	117.6	123.2
		kcal/h	91,500	96,400	101,100	106,000
		Btu/h	363,100	382,200	401,700	420,800
Input (Rated) <sup>1)</sup>	Cooling	kW	30.00	30.80	32.90	33.70
	Heating	kW	28.80	30.20	30.92	32.32
Power Factor <sup>6)</sup>	Rated	-	0.93	0.93	0.93	0.93
Casing Color			Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
Heat Exchanger			Gold fin	Gold fin	Gold fin	Gold fin
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm <sup>3</sup> /rev	(43.8x2)x2	(43.8x2)x2	(43.8x2)+62.1+43.8	(43.8x2)+62.1+43.8
	Number of Revolution	rev/min	(3,600x2)x2	(3,600x2)x2	(3,600x2)+3,600x2	(3,600x2)+3,600x2
	Motor Output x Number	W x No.	(4,200x2)x2	(4,200x2)x2	(4,200x2)+6,800+4,200	(4,200x2)+6,800+4,200
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Fan	Type		Axial fan	Axial fan	Axial fan	Axial fan
	Motor Output x Number	W	1,200x2	1,200x2	1,200+750x2	1,200+750x2
	Air Flow Rate	m <sup>3</sup> /min	270x2	270x2	270+210x2	270+210x2
		ft <sup>3</sup> /min	9,535x2	9,535x2	9,535+7,416x2	9,535+7,416x2
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge		Side / Top	TOP	TOP	TOP
Piping Connections	Liquid	mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Gas	mm(inch)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)
Dimensions(W x H x D)	mm		(1,240x1,680x760)x2	(1,240x1,680x760)x2	(1,240x1,680x760)x1 +(920x1,680x760)x2	(1,240x1,680x760)x1 +(920x1,680x760)x2
	inch		(48-13/16x66-5/32 x29-29/32)x2	(48-13/16x66-5/32 x29-29/32)x2	(48-13/16x66-5/32x29-29/32)x1 +(36-7/32x66-5/32x29-29/32)x2	(48-13/16x66-5/32x29-29/32)x1 +(36-7/32x66-5/32x29-29/32)x2
Net Weight	kg		255x1+245x1	255x2	245x1+190x1+175x1	255x1+190x1+175x1
	lbs		562x1+540x1	562x2	540x1+419x1+386x1	562x1+419x1+386x1
Sound Pressure Level	dB(A)		65.0	65.0	65.2	65.2
Sound Power Level	dB(A)		85.0	85.0	85.6	85.6
Protection Devices	High pressure		-	High pressure sensor / High pressure switch		
	Compressor / Fan		-	Over-heat protection / Fan driver overload protector		
	Inverter		-	Over-heat protection / Over-current protection		
Communication Cable	Noxmm <sup>2</sup> (VCTF-SB)		2Cx1.0-1.5	2Cx1.0-1.5	2Cx1.0-1.5	2Cx1.0-1.5
Refrigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount	kg	7.6x1+6.0x1	7.6x2	6.0x1+6.6x1+5.0x1	7.6x1+6.6x1+5.0x1
		lbs	16.8x1+13.2x1	16.8x2	13.2x1+14.6x1+11.0x1	16.8x1+14.6x1+11.0x1
Control		Electronic Expansion Valve				
Power Supply	V, Ø, Hz		220-240, 3, 50	220-240, 3, 50	220-240, 3, 50	220-240, 3, 50
			220, 3, 60	220, 3, 60	220, 3, 60	220, 3, 60
Number of maximum connectable indoor units <sup>2)</sup>			61(64)	64	64	64

Images of outdoor unit combination are in page 4, 'PRODUCT LINE UP'

## Standard Combination

HP			46	48	50	52
Model Name	Combination Unit		ARUN460BLS4	ARUN480BLS4	ARUN500BLS4	ARUN520BLS4
	Independent Unit		ARUN200BLS4	ARUN200BLS4	ARUN200BLS4	ARUN200BLS4
			ARUN160BLS4	ARUN180BLS4	ARUN200BLS4	ARUN200BLS4
Capacity <sup>1)</sup> (Rated)	Cooling	kW	128.8	134.4	140.0	145.6
		kcal/h	110,800	115,600	120,500	125,300
		Btu/h	439,900	459,000	478,100	496,900
	Heating	kW	128.8	134.4	140.0	145.6
		kcal/h	110,800	115,600	120,500	125,300
		Btu/h	439,900	459,000	478,100	496,900
Input (Rated) <sup>1)</sup>	Cooling	kW	35.20	37.50	38.30	40.10
	Heating	kW	35.50	36.10	37.50	38.80
Power Factor <sup>6)</sup>	Rated	-	0.93	0.93	0.93	0.93
Casing Color			Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray	Warm Gray / Morning Gray
Heat Exchanger			Gold fin	Gold fin	Gold fin	Gold fin
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm <sup>3</sup> /rev	(43.8x2)+62.1+43.8	(43.8x2)x2+43.8	(43.8x2)x2+43.8	(43.8x2)x2+62.1
	Number of Revolution	rev/min	(3,600x2)+3,600x2	(3,600x2)x2+3,600	(3,600x2)x2+3,600	(3,600x2)x2+3,600
	Motor Output x Number	W x No.	(4,200x2)+6,800+4,200	(4,200x2)x2+4,200	(4,200x2)x2+4,200	(4,200x2)x2+6,800
	Starting Method		Direct On Line	Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
Fan	Type		Axial fan	Axial fan	Axial fan	Axial fan
	Motor Output x Number	W	1,200x2+750	1,200x2+750	1,200x2+750	1,200x2+750
	Air Flow Rate	m <sup>3</sup> /min	270x2+210	270x2+210	270x2+210	270x2+210
		ft <sup>3</sup> /min	9,535x2+7,416	9,535x2+7,416	9,535x2+7,416	9,535x2+7,416
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge		Side / Top	TOP	TOP	TOP
Piping Connections	Liquid	mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Gas	mm(inch)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)
Dimensions(W x H x D)	mm		(1,240x1,680x760)x2 +(920x1,680x760)x1	(1,240x1,680x760)x2 +(920x1,680x760)x1	(1,240x1,680x760)x2 +(920x1,680x760)x1	(1,240x1,680x760)x2 +(920x1,680x760)x1
	inch		(48-13/16x66-5/32x29-29/32)x2 +(36-7/32x66-5/32x29-29/32)x1	(48-13/16x66-5/32x29-29/32)x2 +(36-7/32x66-5/32x29-29/32)x1	(48-13/16x66-5/32x29-29/32)x2 +(36-7/32x66-5/32x29-29/32)x1	(48-13/16x66-5/32x29-29/32)x2 +(36-7/32x66-5/32x29-29/32)x1
Net Weight	kg		255x1+205x1+175x1	255x1+245x1+175x1	255x2+175x1	255x2+180x1
	lbs		562x1+452x1+386x1	562x1+540x1+386x1	562x2+386x1	562x2+397x1
Sound Pressure Level	dB(A)		65.9	65.9	65.9	66.0
Sound Power Level	dB(A)		85.6	86.0	86.0	86.0
Protection Devices	High pressure		-	High pressure sensor / High pressure switch		
	Compressor / Fan		-	Over-heat protection / Fan driver overload protector		
	Inverter		-	Over-heat protection / Over-current protection		
Communication Cable	Noxmm <sup>2</sup> (VCTF-SB)		2Cx1.0-1.5	2Cx1.0-1.5	2Cx1.0-1.5	2Cx1.0-1.5
Refrigerant	Refrigerant name		R410A	R410A	R410A	R410A
	Precharged Amount	kg	7.6x1+6.0x1+5.0x1	7.6x1+6.0x1+5.0x1	7.6x2+5.0x1	7.6x2+5.0x1
		lbs	16.8x1+13.2x1+11.0x1	16.8x1+13.2x1+11.0x1	16.8x2+11.0x1	16.8x2+11.0x1
Control		Electronic Expansion Valve				
Power Supply	V, Ø, Hz		220-240, 3, 50	220-240, 3, 50	220-240, 3, 50	220-240, 3, 50
			220, 3, 60	220, 3, 60	220, 3, 60	220, 3, 60
Number of maximum connectable indoor units <sup>2)</sup>			64	64	64	64

Images of outdoor unit combination are in page 4, 'PRODUCT LINE UP'



## Standard Combination

HP			54	56
Model Name	Combination Unit		ARUN540BLS4	ARUN560BLS4
	Independent Unit		ARUN200BLS4	ARUN200BLS4
			ARUN200BLS4	ARUN200BLS4
			ARUN140BLS4	ARUN160BLS4
Capacity <sup>1)</sup> (Rated)	Cooling	kW	151.2	156.8
		kcal/h	130,100	134,900
		Btu/h	516,000	535,100
	Heating	kW	151.2	156.8
		Btu/h	516,000	535,100
Input (Rated) <sup>1)</sup>	Cooling	kW	41.60	43.10
	Heating	kW	40.12	43.30
Power Factor <sup>6)</sup>	Rated	-	0.93	0.93
Casing Color			Warm Gray / Morning Gray	Warm Gray / Morning Gray
Heat Exchanger			Gold fin	Gold fin
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm <sup>3</sup> /rev	(43.8x2)x2+62.1	(43.8x2)x2+62.1
	Number of Revolution	rev/min	(3,600x2)x2+3,600	(3,600x2)x2+3,600
	Motor Output x Number	W x No.	(4,200x2)x2+6,800	(4,200x2)x2+6,800
	Starting Method			Direct On Line
Oil Type			FVC68D(PVE)	
Fan	Type		Axial fan	Axial fan
	Motor Output x Number	W	1,200x2+750	1,200x3
	Air Flow Rate	m <sup>3</sup> /min	270x2+210	270x3
		ft <sup>3</sup> /min	9,535x2+7,416	9,535x3
	Drive			DC INVERTER
Discharge	Side / Top	TOP		
Piping Connections	Liquid	mm(inch)	19.05(3/4)	19.05(3/4)
	Gas	mm(inch)	41.3(1-5/8)	41.3(1-5/8)
Dimensions(W x H x D)	mm		(1,240x1,680x760)x2 +(920x1,680x760)x1	(1,240x1,680x760)x3
	inch		(48-13/16x66-5/32x29-29/32)x2 +(36-7/32x66-5/32x29-29/32)x1	(48-13/16x66-5/32 x29-29/32)x3
Net Weight	kg		255x2+190x1	255x2+205x1
	lbs		562x2+419x1	562x2+452x1
Sound Pressure Level	dB(A)		66.2	66.8
Sound Power Level	dB(A)		86.5	86.5
Protection Devices	High pressure	-	High pressure sensor / High pressure switch	
	Compressor / Fan	-	Over-heat protection / Fan driver overload protector	
	Inverter	-	Over-heat protection / Over-current protection	
Communication Cable	Noxmm <sup>2</sup> (VCTF-SB)		2Cx1.0-1.5	2Cx1.0-1.5
Refrigerant	Refrigerant name		R410A	R410A
	Precharged Amount	kg	7.6x2+6.6x1	7.6x2+6.0x1
		lbs	16.8x2+14.6x1	16.8x2+13.2x1
Control			Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	V, Ø, Hz		220-240, 3, 50	220-240, 3, 50
Number of maximum connectable indoor units <sup>2)</sup>			220, 3, 60	220, 3, 60
			64	64

Images of outdoor unit combination are in page 4, 'PRODUCT LINE UP'

## Standard Combination

HP			58	60
Model Name	Combination Unit		ARUN580BLS4	ARUN600BLS4
	Independent Unit		ARUN200BLS4	ARUN200BLS4
			ARUN200BLS4	ARUN200BLS4
			ARUN180BLS4	ARUN200BLS4
Capacity <sup>1)</sup> (Rated)	Cooling	kW	162.4	168.0
		kcal/h	139,700	144,600
		Btu/h	554,200	573,300
	Heating	kW	162.4	168.0
		Btu/h	554,200	573,300
Input (Rated) <sup>1)</sup>	Cooling	kW	45.40	46.20
	Heating	kW	43.90	45.30
Power Factor <sup>6)</sup>	Rated	-	0.93	0.93
Casing Color			Warm Gray / Morning Gray	Warm Gray / Morning Gray
Heat Exchanger			Gold fin	Gold fin
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement	cm <sup>3</sup> /rev	(43.8x2)x3	(43.8x2)x3
	Number of Revolution	rev/min	(3,600x2)x3	(3,600x2)x3
	Motor Output x Number	W x No.	(4,200x2)x3	(4,200x2)x3
	Starting Method			Direct On Line
Oil Type			FVC68D(PVE)	
Fan	Type		Axial fan	Axial fan
	Motor Output x Number	W	1,200x3	1,200x3
	Air Flow Rate	m <sup>3</sup> /min	270x3	270x3
		ft <sup>3</sup> /min	9,535x3	9,535x3
	Drive			DC INVERTER
Discharge	Side / Top	TOP		
Piping Connections	Liquid	mm(inch)	19.05(3/4)	19.05(3/4)
	Gas	mm(inch)	41.3(1-5/8)	41.3(1-5/8)
Dimensions(W x H x D)	mm		(1,240x1,680x760)x3	(1,240x1,680x760)x3
	inch		(48-13/16x66-5/32 x29-29/32)x3	48-13/16x66-5/32 x29-29/32)x3
Net Weight	kg		255x2+245x1	255x3
	lbs		562x2+540x1	562x3
Sound Pressure Level	dB(A)		66.8	66.8
Sound Power Level	dB(A)		86.8	86.8
Protection Devices	High pressure	-	High pressure sensor / High pressure switch	
	Compressor / Fan	-	Over-heat protection / Fan driver overload protector	
	Inverter	-	Over-heat protection / Over-current protection	
Communication Cable	Noxmm <sup>2</sup> (VCTF-SB)		2Cx1.0-1.5	2Cx1.0-1.5
Refrigerant	Refrigerant name		R410A	R410A
	Precharged Amount	kg	7.6x2+6.0x1	7.6x3
		lbs	16.8x2+13.2x1	16.8x3
Control			Electronic Expansion Valve	Electronic Expansion Valve
Power Supply	V, Ø, Hz		220-240, 3, 50	220-240, 3, 50
Number of maximum connectable indoor units <sup>2)</sup>			220, 3, 60	220, 3, 60
			64	64

Images of outdoor unit combination are in page 4, 'PRODUCT LINE UP'