

ARUN120LSS5

Multi V | Outdoor Unit - Submittal

R410A | VRF Multi V S



More information can be found at:
partner.lge.com

*The actual product may look slightly different from the product image above.

Features

- Dual Sensing Smart Load Control (Temp. & Humidity)
- Comfort Cooling
- Night Low Noise Operation
- Improved Biomimetic Fan with High Air Flow and Reduced Noise
- Wide Louver Plus Fin with Anticorrosion Ocean Black Coating
- BLDC Inverter twin rotary
- High pressure switch
- Defrost / Deicing
- Self diagnosis
- Soft start

Specification

Classification	Combination Unit (1)	-	ARUN120LSS5
Power Supply	Case 1	-	50 Hz, 380-415 V 3N~
	Limit Range of Voltage(Case 1)	-	342~456
	Case 2	-	60 Hz 380 V 3N~
	Limit Range of Voltage(Case 2)	-	342~418
	Running Current by Voltage (Cooling, Rated)	A	19.62 - 18.64 - 17.97
	Running Current by Voltage (Heating, Rated)	A	14.79 - 14.05 - 13.54
Cooling Capacity	Rated	kW	33.5
		Btu/h	114700
Heating Capacity	Rated	kW	33.5
		Btu/h	114700
	Max	kW	36.7
		Btu/h	125200
Power Input(Cooling)	Rated	kW	12.01
Power Input(Heating)	Rated	kW	9.05
Efficiency	EER(Rated)	W/W	2.79
	COP(Rated)	W/W	3.70
	SEER	Wh/Wh	6.83
	SCOP	Wh/Wh	4.45
Power Factor(Cooling/Heating)	Rated	-	0.93/0.93
Outdoor Fan	Type	-	Propeller fan
	Air Flow Rate(High)	m³/min	210

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Outdoor Fan	Discharge direction(Side / Top)	-	Side
	Type	-	BLDC
Outdoor Fan Motor	Drive	-	DC INVERTER
	Output	W x No.	250 x 2
Compressor	Type	-	Hermetically Sealed Scroll
	Piston Displacement	cm ³ /rev	62.1
	Number of Revolution	rev./min	3,600
	Motor Output	W x No.	None
	Starting Method	-	Inverter
	Oil Type	-	FW68L(PVE)
Heat Exchanger	Type	-	Fin & Tube
	No.	-	2
	Fin Type	-	Wide Louver Plus
Dimensions	Net(W x H x D)	mm	1090 x 1625 x 380
	Shipping(W x H x D)	mm	1215 x 1795 x 500
Weight	Net	kg	152
	Shipping	kg	166
Exterior	Color	-	Warm Gray
	RAL (Classic)	-	RAL 7044
Protection Device	High Pressure Prevention	-	High pressure sensor / High pressure switch
	Frost Prevention	-	O (Logical)
	Discharge Temperature Control	-	O (Logical)
	Compressor/Fan Protection	-	Over-heat protection / Fan driver overload protector
	Inverter Protection	-	Over-heat protection / Over-current protection
	Type	-	R410A
Refrigerant	Precharged Amount	kg	6.0
	GWP(Global Warming Potential)	-	2087.5
	t-CO ₂ eq.	-	12.525
	Control Type	-	Electronic Expansion Valve
Connecting Pipe	Liquid	mm(inch)	Φ12.7 (1/2)
	Gas	mm(inch)	Φ28.58 (1-1/8)
Piping Connection Type	Liquid	-	Brazing
	Gas	-	Brazing
Sound Pressure Level (Outdoor Unit)	Cooling / Heating	dB(A)	60/60
Measurement Standard (Pressure Level)	-	-	ISO 3745
Sound Power Level (Outdoor Unit)	Cooling / Heating	dB(A)	77/82
Measurement Standard (Power Level)	-	-	ISO 9614
Connecting Cable	Communication Cable(VCTF-SB)	mm ² × cores	1.0~1.5 x 2
Electrical Characteristic	Minimum Circuit Amperes (MCA)	A	25.5
	Maximum Fuse Amperes (MFA)	A	35

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Electrical Characteristic	Total Over Current Amperes (TOCA)	A	28
	Comp_Maximum Starting Current (MSC)	A	5.9
	Comp_Rated Load Amperes (Cooling)	A	12.0
	Comp_Rated Load Amperes (Heating)	A	13.5
	Outdoor Fan Motor_Full Load Amperes (FLA)	A	2.4
Connectable indoor units number	Max. (Conditional)	Units	20

Notes

- 1 Due to our policy of innovation some specifications may be changed without notification.
- 2 Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- 3 Power factor could vary less than $\pm 1\%$ according to the operating conditions.
- 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 Performances are based on the following conditions :
 - Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- 6 EUROVENT Test Condition :
 - Performance values on the this PDB are based on Ceiling mounted cassette combination.
 - Refer to EUROVENT web site(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.
- 7 The maximum combination ratio is 160%.
- 8 This product contains Fluorinated greenhouse gases.(R410A, GWP(Global warming potential) = 2,087.5)

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Control & Accessories

- PQCSZ250S0 AC Ez (up to 32 indoor units)
- PACEZA000 AC Ez Touch (up to 64 indoor units)
- PACM5A000 AC Manager 5 (up to 8,192 indoor units)
- PACS5A000 AC Smart 5 (up to 128 indoor units)
- PACS4B000 AC Smart IV (up to 128 indoor units)
- PACP5A000 ACP 5 (up to 256 indoor units)
- PACP4B000 ACP IV (up to 256 indoor units)
- PPWRDB000 PDI (Power Distribution Indicator) Standard, up to 128 indoor units
- PQNUD1S40 PDI (Power Distribution Indicator) Premium, up to 128 indoor units
- PACT5A000 New ACP LonWorks (U60 LonWorks module required)
- PMBUSB00A Modbus RTU Gateway
- PEXPMB000 ACS I/O Module (for 3rd Party Control)
- PLNWKB000 ACP LonWorks Gateway
- PQNFB17C0 ACP BACnet Gateway
- PRDSBM Cool/Heat Selector Switch
- PVDSMN000 ODU I/O Module for Multi V (since IV series)
- PWFMDB200 Cloud Gateway

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Dimensional Drawing # 1

