

## 8. ARUM220LTE6

## 8.1 Specifications

Category		Unit	Specification
Major	Minor		
Classification	Chassis	-	UXC
	Combination Unit (1)	-	ARUM220LTE6
	Combination Unit (2)	-	-
	Combination Unit (3)	-	-
	Combination Unit (4)	-	-
Power Supply	Case 1	V, Phase, Hz	380-400-415, 3, 50
	Limit Range of Voltage(Case 1)	V	342 ~ 456
	Case 2	V, Phase, Hz	380, 3, 60
	Limit Range of Voltage(Case 2)	V	342 ~ 418
	Running Current by Voltage (Cooling, Rated)	A	35.94 - 34.14 - 32.91
	Running Current by Voltage (Heating, Rated)	A	26.07 - 24.77 - 23.87
Cooling Capacity	Rated	kW	61.6
		Btu/h	210,200
Heating Capacity	Rated	kW	61.6
		Btu/h	210,200
	Max	kW	69.3
		Btu/h	236,500
Power Input(Cooling)	Rated	kW	22.00
Power Input(Heating)	Rated	kW	15.96
Efficiency	EER(Rated)	W/W	2.80
	COP(Rated)	W/W	3.86
	SEER	Wh/Wh	7.20
	SCOP	Wh/Wh	4.62
Power Factor(Cooling/Heating)	Rated	-	0.93 / 0.93
Outdoor Fan	Type	-	Propeller fan
	Air Flow Rate(High)	m <sup>3</sup> /min x No.	430 x 1
	Max. External Static Pressure	Pa	80
	Discharge direction(Side / Top)	-	Top
Outdoor Fan Motor	Type	-	BLDC
	Drive	-	Direct
	Output	W x No.	1,500 x 2
Compressor	Type	-	Hermetically Sealed Scroll
	Piston Displacement	cm <sup>3</sup> /rev	62.1 x 2
	Number of Revolution	rev./min	3,600 x 2
	Motor Output	W x No.	5,300 x 2
	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	1,640 x 1,745 x 760
	Shipping(W x H x D)	mm	1,675 x 1,919 x 802
Weight	Net	kg	362
	Shipping	kg	372
Exterior	Color	-	Morning Gray / Dawn Gray
	RAL (Classic)	-	RAL 7038 / RAL 7037
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

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Category		Unit	Specification
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Protection Device	Inverter Protection	-	Over-heat protection / Over-current protection
Refrigerant	Type	-	R410A
	Precharged Amount	kg	16.0
	GWP(Global Warming Potential)	-	2,087.5
	t-CO <sub>2</sub> eq.	-	33.400
	Control Type	-	EEV
Connecting Pipe	Liquid	mm(inch)	Φ15.88 (5/8)
	Gas	mm(inch)	Φ28.58 (1-1/8)
	Low Pressure Gas (Heat Recovery)	mm(inch)	Φ28.58 (1-1/8)
	High Pressure Gas (Heat Recovery)	mm(inch)	Φ28.58 (1-1/8)
Piping Connection Type	Liquid	-	Brazing
	Gas	-	Brazing
	Low Pressure Gas (Heat Recovery)	-	Brazing
	High Pressure Gas (Heat Recovery)	-	Brazing
Sound Pressure Level (Outdoor Unit)	Cooling / Heating	dB(A)	64.0 / 66.0
Measurement Standard (Pressure Level)	-	-	ISO 3745
Sound Power Level (Outdoor Unit)	Cooling / Heating	dB(A)	84.0 / 88.0
Measurement Standard (Power Level)	-	-	ISO 9614
Connecting Cable	Communication Cable(VCTF-SB)	mm <sup>2</sup> × cores	0.75 ~ 1.5 × 2C
Electrical Characteristic	Minimum Circuit Amperes (MCA)	A	48.0
	Maximum Fuse Amperes (MFA)	A	63.0
	Total Over Current Amperes (TOCA)	A	54.0
	Comp_Maximum Starting Current (MSC)	A	11.8
	Comp_Rated Load Amperes (Cooling)	A	30.9
	Comp_Rated Load Amperes (Heating)	A	21.1
	Outdoor Fan Motor_Full Load Amperes (FLA)	A	5.0
Connectable indoor units number	Max. (Conditional)	Units	35(56)

**Note**

- Due to our policy of innovation some specifications may be changed without notification.
- Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Power factor could vary less than ±1% according to the operating conditions.
- Sound level values are depend on the ambient conditions and values are normally higher in actual operation.  
Sound values of combination model are calculated values based on sound results of independent models.  
Sound values can be increased owing to ambient or installation conditions during operation.  
Sound values of system [dB(A)] = 10\*log [10<sup>A1</sup>(A1/10)+ ... +10<sup>An</sup>(An/10)] , A1~An means sound values of independent models.
- 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](http://www.eurovent-certification.com)) for other indoor unit combination and more detail test conditions.
- Use appropriate power source refer to national standard.
- Voltage supplied to the unit terminals should be within the minimum and maximum range.
- Maximum allowable voltage unbalance between phase is 2%.
- MSC means the Max. current during the starting of compressor.  
MSC and RLA are measured as the compressor only test condition.  
OFM are measured as the outdoor unit test condition.  
TOCA means the total over current value of each outdoor unit.  
Select the wire size based on the larger value among MCA or TOCA.  
MFA is used to select the circuit breaker and ground fault circuit interrupter, and all installation site must require attachment of an earth leakage breaker.  
[circuit breaker type is ELCB(Earth Leakage Circuit Breaker)].
- 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 0m.

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8.4 Dimensions

