



<b>Power supply</b>	Monobloc Unit	V/Ph/H	380-415/3/50
<b>Heating<sup>2</sup></b>	Capacity	kW	12,2
	Rated input	kW	2,44
	COP		4,96
<b>Heating<sup>3</sup></b>	Capacity	kW	12
	Rated input	kW	3,86
	COP		3,11
<b>Cooling<sup>4</sup></b>	Capacity	kW	12
	Rated input	kW	3
	EER		4
<b>Cooling<sup>5</sup></b>	Capacity	kW	11,7
	Rated input	kW	4,3
	EER		2,75
<b>Seasonal space heating energy efficiency class<sup>7</sup></b>	LWT at 35°C		A+++
	LWT at 55°C		A++
	LWT at 35°C		4,82
	LWT at 55°C		3,46
<b>MOP(Maximum overcurrent protection)</b>		A	28
<b>DC Inv.Compressor</b>	Model		9KD420ZBA21
	Quantity		1
	Twin rotary DC inverter		
	Brand		panasonic
	RPM	rps	3450
	Capacity	W	12250
	Input	W	4495
	Power Supply	Ph-V-Hz	380-415/3/50
	Operating Frequency	Hz	15~120
	Crankcase	W	25
	Compressor refrigerant Oil	ml	1000
<b>Fan Motor</b>	Model		CW170A-ZL
	Brushless DC motor		
	Brand		WOLONG
	Insulation Class		E
	Safe Class		IP24
	Output Power x Fan quantity	W	170*1
<b>Fan</b>	Speed	r/min	870
	Motor type		Axial
	Number of fans		1

<b>Air side heat exchanger</b>	a.Number Of Row		3	
	b.Tube Pitch(a)x Row Pitch(b)	mm	19.05*22	
	c.Fin Pitch	mm	1,5	
	d.Fin Material		Aluminum sheet	
	e.Tube Outside Dia.And Material	mm	φ7.94	
	f.Coil Length x Height x Width	mm	1050*836*5715	
	g.Heat Exchanging Area	m <sup>2</sup>	65	
<b>Water pump</b>	brand		Shimge	
	fluid temp		0-110°C	
	Ambient temp		-25-53°C	
	Max pressure		10bar	
	Protection class		IP44	
	Rated prower		230-50/60Hz	
	Type		canned pump	
	Power input		4-95W	
	current		0.04-0.75A	
	Max Rotating speed		4500r/min	
	Insulation class		class F	
Pump head		9m		
Max Flow		4.5m <sup>3</sup> /h		
Adapter diameter		DN25		
<b>Refrigerant(R32)</b>	Factory charge	kg	1,7	
<b>Throttle type</b>	Electronic expansion valve			
<b>Sound pressure level</b>	Monobloc Unit	dB(A)	52	
<b>Sound power level</b>	Monobloc Unit	dB	65	
<b>Packed dimensions (W×D×H)</b>	Monobloc Unit	mm	1465×550×1095	
<b>Body dimensions (W×D×H)</b>	Monobloc Unit	mm	1385×520×933	
<b>Net/Gross weight</b>	Monobloc Unit	kg	140/151	
<b>Operating temperature range</b>	Cooling	°C	-5 -43	
	Heating	°C	-25- 35	
	DHW	°C	-25-43	
<b>Setting water temperature range</b>	Cooling	°C	5-25	
	Heating	°C	12-65	
	DHW(tank)	°C	30-60	
<b>Water circuit</b>	Piping connections	inch	G1"BSP	
	Safety valve set pressure	MPa	0,3	
	Flow switch	m <sup>3</sup> /h	0,6	
	Expansion tank	Volume	L	8
		Max. water pressure	MPa	0,8
		Pre-pressure	MPa	0,1
	Capacity of the back-up heater	kW	3	
Water side	Type		Plate type	
<b>Wiring</b>	Power wiring	mm <sup>2</sup>	10	
<b>Stuffing Quantity</b>	40H/40/20	Unit	66/66/32	
<b>Energy efficiency label data</b>	Colder	55°C	kW	10
		35°C	kW	11
	Average	55°C	kW	12
		35°C	kW	12
	Warmer	55°C	kW	13
		35°C	kW	11

- Note: 1. Relevant EU standards and legislation: EN14511; EN14825; EN50564; EN12102; (EU) No 811:2013; (EU) No 813:2013; OJ 2014/C 207/02:2014.
- Outdoor air temperature 7°C DB, 85% RH.; EWT 30°C, LWT 35°C.
- Outdoor air temperature 7°C DB, 85% RH.; EWT 47°C, LWT 55°C.
- Outdoor air temperature 35°C DB; EWT 23°C, LWT 18°C.
- Outdoor air temperature 35°C DB; EWT 12°C, LWT 7°C.
- Seasonal space heating energy efficiency class tested in average climate conditions.
- Test standard: EN12102-1
- Sound pressure level is the maximum value tested under the two conditions of Notes2 and Notes5.