

		4kW	6kW	8kW	10kW	12kW	14kW	16kW
market model name (set)		ACHP-H04/4R3HA	ACHP-H06/4R3HA	ACHP-H08/4R3HB	ACHP-H10/4R3HB	ACHP-H12/5R3HA	ACHP-H14/5R3HA	ACHP-H16/5R3HA
part number		ACHP-H04/4R3HA-O	ACHP-H06/4R3HA-O	ACHP-H08/4R3HA-O	ACHP-H10/4R3HA-O	ACHP-H12/5R3HA-O	ACHP-H14/5R3HA-O	ACHP-H16/5R3HA-O
ODU Power Supply		V~Hz,Ph	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50
ODU Max. Input Consumption		kW	4.14	4.14	4.47	4.47	9.2	9.2
Heating <sup>2</sup>	Capacity	kW	4.3	6.25	8.4	10	12.2	14.5
	Rated input	kW	0.83	1.25	1.62	2	2.44	3.08
	COP		5.2	5	5.2	5	4.96	4.71
Heating <sup>3</sup>	Capacity	kW	4.36	6.4	8.3	10	12	14
	Rated input	kW	1.47	2.13	2.60	3.23	3.86	4.67
	COP		2.96	3	3.19	3.1	3.11	3
Cooling <sup>4</sup>	Capacity	kW	4.5	6.6	8.45	10	12	13.6
	Rated input	kW	0.81	1.35	1.67	2.08	3	3.78
	EER		5.56	4.9	5.06	4.8	4	3.6
Cooling <sup>5</sup>	Capacity	kW	4.75	7.05	7.45	8.3	11.7	12.8
	Rated input	kW	1.40	2.35	2.20	2.52	4.3	5.00
	EER		3.4	3	3.39	3.3	2.75	2.56
Seasonal space heating energy efficiency class <sup>7</sup>	LWT at 35 C		A+++	A+++	A+++	A+++	A+++	A+++
	LWT at 55 C		A++	A++	A++	A++	A++	A++
SCOP <sup>6</sup>	LWT at 35 C		4.86	4.96	5.22	5.2	4.82	4.71
	LWT at 55 C		3.32	3.53	3.37	3.5	3.46	3.48
MOP(Maximum overcurrent protection)		A	18	18	19	19	14	14
DC Inv.Compressor	Model		EKTM180D63UKER	EKTM180D63UKER	EKTM225D63UKER	EKTM225D63UKER	9KD420ZBA21	9KD420ZBA21
	Quantity		1	1	1	1	1	1
	Type		Twin rotary DC inverter	Twin rotary DC inverter	Twin rotary DC inverter	Twin rotary DC inverter	Twin rotary DC inverter	Twin rotary DC inverter
	Brand		GMCC	GMCC	GMCC	GMCC	panasonic	panasonic
	RPM	rps	3450	3450	3450	3450	3450	3450
	Capacity	W	5620	5620	7170	7170	12250	12250
	Input	W	1500	1500	1935	1935	4495	4495
	Power Supply	Ph-V-Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50
	Operating Frequency	Hz	12 ~ 120	12 ~ 120	12 ~ 120	12 ~ 120	15 ~ 120	15 ~ 120
	Crankcase	W	25	25	25	25	25	25
Compressor refrigerant Oil	ml	620	620	620	620	1000	1000	
Outdoor Fan Motor	Model		D-69-8	D-69-8	D-310-120-8A	D-310-120-8A	CW170A-ZL	CW170A-ZL
	Type		Axial	Axial	Axial	Axial	Axial	Axial
	Brand		WOLONG	WOLONG	WOLONG	WOLONG	WOLONG	WOLONG
	Insulation Class		E	E	E	E	E	E
	Safe Class		IP24	IP24	IP24	IP24	IP24	IP24
	Output Power x Fan quantity	W	69*1	69*1	120*1	120*1	170*1	170*1
	Speed	r/min	870	870	900	900	870	870
Outdoor Fan	Material		Plastic	Plastic	Plastic	Plastic	Plastic	
	Type		DC	DC	DC	DC	DC	
Outdoor Coil	Fan Quantity		1	1	1	1	1	
	a.Number Of Row		2	2	3	3	3	
	b.Tube Pitch(a)x Row Pitch(b)	mm	19.05*22	19.05*22	19.05*22	19.05*22	19.05*22	
	c.Fin Pitch	mm	1.3	1.3	1.5	1.5	1.5	
	d.Fin Material		Aluminum sheet	Aluminum sheet	Aluminum sheet	Aluminum sheet	Aluminum sheet	
	e.Tube Outside Dia.And Material	mm	φ7	φ7	φ7	φ7	φ7.94	
	f.Coil Length x Height x Width	mm	871*660*38.1	871*660*38.1	957*759*38.1	957*759*38.1	1050*836*57.15	
g.Heat Exchanging Area	m <sup>2</sup>	28	28	40	40	65		
Air Flow Volume	m <sup>3</sup> /h	2800	2800	4000	4000	4650		
sound pressure level	H	dB(A)	38	38	45	48	50	
sound power level	H	dB(A)	56	58	59	60	64	
Dimension(WxDxH)	Net	mm	700×350×900	700×350×900	805×395×970	805×395×970	870×480×1060	
	Packing	mm	770×430×1020	770×430×1020	895×495×1105	895×495×1105	980×545×1100	
Weight	Net	kg	51	51	65	65	100	
	Gross	kg	55	55	69	69	105	
Refrigerant type/Quantity	Type		R32	R32	R32	R32	R32	
	Charged Volume	kg	1.1	1.1	1.45	1.45	1.84	
Design Pressure		MPa	4.5	4.5	4.5	4.5	4.5	
		MPa	4.5	4.5	4.5	4.5	4.5	
Refrigerant Piping	Liquid Side	mm	9.52	9.52	9.52	9.52	9.52	
	Gas Side	mm	15.88	15.88	15.88	15.88	15.88	
	MAX length	m	30	30	30	30	30	
	MIN length	m	2	2	2	2	2	
Installation height difference	ODU above	m	20	20	20	20	20	
	ODU below	m	20	20	20	20	20	
Wiring specification	Power wiring ( ODU )	mm <sup>2</sup>	4	4	4	4	4	
	A.B signal wiring ( to IDU )	mm <sup>2</sup>	0.75	0.75	0.75	0.75	0.75	
Operating temperature range	Cooling	C	-5 ~ 52	-5 ~ 52	-5 ~ 52	-5 ~ 52	-5 ~ 52	
	Heating	C	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	
	DHW	C	-25 ~ 43	-25 ~ 43	-25 ~ 43	-25 ~ 43	-25 ~ 43	
Stuffing Quantity	20/40/40H	Unit	87/183/183	87/183/183	44/96/144	44/96/144	40/84/84	
		Unit	87/183/183	87/183/183	44/96/144	44/96/144	40/84/84	
Energy efficiency label data	Colder	55°C	kW	3	4	6	7	10
		35°C	kW	5	6	7	8	11
	Average	55°C	kW	6	6	7	8	12
		35°C	kW	6	7	8	9	15
	Warmer	55°C	kW	5	5	8	9	14
		35°C	kW	6	6	9	9	13

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.

2. Outdoor air temperature 7 C DB, 85% R.H.; EWT 30 C, LWT 35 C.

3. Outdoor air temperature 7 C DB, 85% R.H.; EWT 47 C, LWT 55 C.

4. Outdoor air temperature 35 C DB; EWT 23 C, LWT 18 C.

5. Outdoor air temperature 35 C DB; EWT 12 C, LWT 7 C.

6. Seasonal space heating energy efficiency class tested in average climate conditions.

7. Test standard: EN12102-1

8. Sound pressure level is the maximum value tested under the two conditions of Notes2 and Notes5.

market model name (set)			4kW	6kW	8kW	10kW
part number			ACHP-H04/4R3HA-I	ACHP-H06/4R3HA-I	ACHP-H08/4R3HA-I	ACHP-H10/4R3HA-I
IDU Power Supply	V-, Hz, Ph		220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50
IDU Max. Input Consumption	kW		3.09	3.09	3.09	3.09
plate heat exchanger	Dimension (W*H*D)	mm	331*117*70	331*117*70	331*117*87	331*117*87
	Heat exchange area	m <sup>2</sup>	1.58	1.58	2.04	2.04
water pump	brand		Shimge	Shimge	Shimge	Shimge
	fluid temp		0-110 C	0-110 C	0-110 C	0-110 C
	Ambient temp		-25-53 C	-25-53 C	-25-53 C	-25-53 C
	Max pressure		10bar	10bar	10bar	10bar
	Protection class		IP44	IP44	IP44	IP44
	Rated prower		230-50/60Hz	230-50/60Hz	230-50/60Hz	230-50/60Hz
	Type		canned pump	canned pump	canned pump	canned pump
	Power input		4.95W	4.95W	4.95W	4.95W
	current		0.04-0.75A	0.04-0.75A	0.04-0.75A	0.04-0.75A
	Max Rotating speed		4500/min	4500/min	4500/min	4500/min
	Insulation class		class F	class F	class F	class F
	Pump head		9m	9m	9m	9m
Max Flow		4.5m <sup>3</sup> /h	4.5m <sup>3</sup> /h	4.5m <sup>3</sup> /h	4.5m <sup>3</sup> /h	
Adapter diameter		DN25	DN25	DN25	DN25	
Indoor Unit	Sound Pressure Noise Level (Hi/Mi/Lo)	dB(A)	30	30	31	31
	Sound Power Noise Level (Hi/Mi/Lo)	dB(A)	38	38	42	42
	Net Dimension (W*D*H)	mm	420*270*790	420*270*790	420*270*790	420*270*790
	Packing Dimension (W*D*H)	mm	515*1045*350	515*1045*350	515*1045*350	515*1045*350
	Net Weight	Kg	38	38	39	39
Setting water temperature range	Gross Weight	Kg	44	44	45	45
	Cooling	°C	5 - 25	5 - 25	5 - 25	5 - 25
	Heating	°C	25 - 65	25 - 65	25 - 65	25 - 65
	DHW(tank)	°C	25 - 60	25 - 60	25 - 60	25 - 60
Water circuit	Piping connections	Inch	R1"	R1"	R1"	R1"
	Safety valve set pressure	MPa	0.3	0.3	0.3	0.3
	Flow switch	m <sup>3</sup> /h	0.38	0.38	0.6	0.6
	Drainage pipe connection	mm	ø25	ø25	ø25	ø25
	Expansion tank	L	8	8	8	8
	Capacity of the back-up heater	kW	3	3	9	9
Refrigerant Pipe	Water pump head	m	9	9	9	9
	Liquid Side	mm	15.88	15.88	15.88	15.88
	Gas Side	mm	9.52	9.52	9.52	9.52
	Drainage	mm	DN25	DN25	DN25	DN25
Qty per 20' & 40' & 40HQ	Set	132/264/322	132/264/322	132/264/322	132/264/322	

market model name (set)			12kW	14kW	16kW
part number			ACHP-H12/5R3HA-I	ACHP-H14/5R3HA-I	ACHP-H16/5R3HA-I
IDU Power Supply	V-, Hz, Ph		380-415/3/50	380-415/3/50	380-415/3/50
IDU Max. Input Consumption	kW		9.09	9.09	9.09
plate heat exchanger	Dimension (W*H*D)	mm	331*117*87	331*117*87	331*117*87
	Heat exchange area	m <sup>2</sup>	2.04	2.04	2.04
water pump	brand		Shimge	Shimge	Shimge
	fluid temp		0-110 C	0-110 C	0-110 C
	Ambient temp		-25-53 C	-25-53 C	-25-53 C
	Max pressure		10bar	10bar	10bar
	Protection class		IP44	IP44	IP44
	Rated prower		230-50/60Hz	230-50/60Hz	230-50/60Hz
	Type		canned pump	canned pump	canned pump
	Power input		4.95W	4.95W	4.95W
	current		0.04-0.75A	0.04-0.75A	0.04-0.75A
	Max Rotating speed		4500/min	4500/min	4500/min
	Insulation class		class F	class F	class F
	Pump head		9m	9m	9m
Max Flow		4.5m <sup>3</sup> /h	4.5m <sup>3</sup> /h	4.5m <sup>3</sup> /h	
Adapter diameter		DN25	DN25	DN25	
Indoor Unit	Sound Pressure Noise Level (Hi/Mi/Lo)	dB(A)	31	31	31
	Sound Power Noise Level (Hi/Mi/Lo)	dB(A)	43	43	43
	Net Dimension (W*D*H)	mm	420*270*790	420*270*790	420*270*790
	Packing Dimension (W*D*H)	mm	515*1045*350	515*1045*350	515*1045*350
	Net Weight	Kg	39	39	39
Setting water temperature range	Gross Weight	Kg	45	45	45
	Cooling	°C	5 - 25	5 - 25	5 - 25
	Heating	°C	25 - 65	25 - 65	25 - 65
	DHW(tank)	°C	25 - 60	25 - 60	25 - 60
Water circuit	Piping connections	Inch	R1"	R1"	R1"
	Safety valve set pressure	MPa	0.3	0.3	0.3
	Flow switch	m <sup>3</sup> /h	0.6	0.6	0.6
	Drainage pipe connection	mm	ø25	ø25	ø25
	Expansion tank	L	8	8	8
	Capacity of the back-up heater	kW	9	9	9
Refrigerant Pipe	Water pump head	m	9	9	9
	Liquid Side	mm	15.88	15.88	15.88
	Gas Side	mm	9.52	9.52	9.52
	Drainage	mm	DN25	DN25	DN25
Qty per 20' & 40' & 40HQ	Set	132/264/322	132/264/322	132/264/322	

Note: 1. Relevant EU standards and legislation: EN14511; EN14825; EN60564; EN12102; (EU) No 811/2013; (EU) No 815/2013; OJ 2014/C 207/02/2014.

2. Outdoor air temperature 7 C DB, 85% R.H.; EWT 30 C, LWT 35 C.

3. Outdoor air temperature 7 C DB, 85% R.H.; EWT 47 C, LWT 55 C.

4. Outdoor air temperature 35 C DB; EWT 23 C, LWT 18 C.

5. Outdoor air temperature 35 C DB; EWT 12 C, LWT 7 C.

6. Seasonal space heating energy efficiency class tested in average climate conditions.

7. Test standard: EN12102-1.

8. Sound pressure level is the maximum value tested under the two conditions of Notes2 and Notes5.