

TEMPERATURE CONTROL 14/02

AIR TO WATER HEATING / COOLING PUMP-60Hz

Heat pumps can be used for heating or cooling swimming pools, spas or other open water systems. The water system pressure should be less than 3 bar. (Cannot be used for closed water systems such as air conditioning, ground source heating and so on.)

✓ Product features



High Efficiency

Our heat pumps are highly efficient, taking the energy from the ambient air and transferring that heat to the pool. The heat pump can reach a COP of 5.5.



Safety

Water and electricity are completely separate. ECO friendly gas, no fire, no electricity leakage, safer than fuel burner or electrical heater.



Environmentally Friendly

Choose R407C, R410-A, R22 as refrigerant, according to the requirements of EU Montreal Protocol.



Corrosion Prevention

The condenser uses titanium metal which is 4 to 5 times more corrosion resistant than ordinary copper tubes and is significantly more effective for the prevention of fluoride leakages. Liquids containing seawater or mild industrial water can pass through these systems without any problems.



Intelligent Defrosting

By means of both mechanical and automatic control, defrosting can be operated over a shorter time to avoid severe attenuation of heating capacity in winter and when not in use.



Antifreezing Control

The unit starts up automatic antifreezing control when shutdown (no power off), using of antifreezing heat exchanger, 10 freezing tests, no leakage..



Various protective measures

- Lack-phase and anti-phase protection
- Self memory function when power off
- Overpressure protection
- Leakage refrigerant protection
- Water protection for unit
- Overcurrent protection
- Temperature over protection



Advanced control system

- Displaying operating and trouble status
- Checking real-time operation parameters etc
- The cable length between controller and the unit can be up to 30m for flexible installation (on request)
- Keep balance running of compressor
- Automatically adjusting capacity according to the change of water inlet the temperature
- Can achieve the perfect docking with BMS. Set remote control based on user requirement for easy management and maintenance. And can set multi unit modular operation



Compressor

AQUA uses world famous brand compressor such as COPELAND and GMCC to ensure the highest quality of machine.

? How does the unit work?

...AS A CHILLER

1- STAGE ONE

The temperature of the hot gaseous refrigerant discharged from the compressor is much higher than the outside ambient air temperature. When the outside air passes across the condenser coil, the gaseous refrigerant transfers its heat to the air and condenses into liquid.

2- STAGE TWO

The liquid refrigerant passes through the capillary tube, reducing its pressure and temperature.

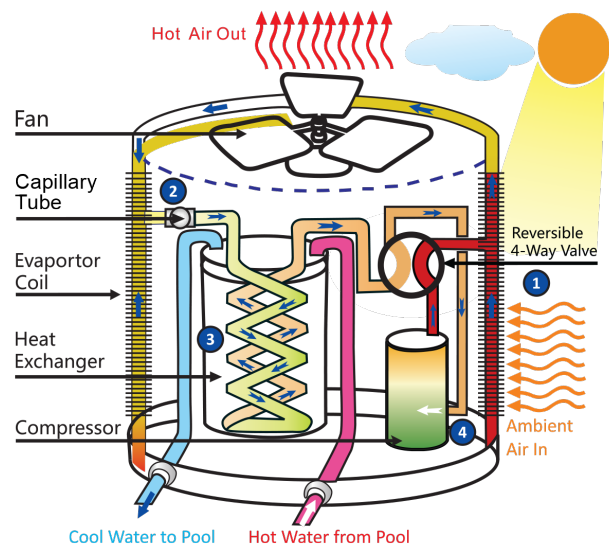
3- STAGE THREE

The low temperature refrigerant passes to the heat exchanger evaporator, where the actual heat transfer takes place: the refrigerant absorbs heat from the water pumped into the heat exchanger and evaporates, whereby the water temperature is reduced.

4- STAGE FOUR

The gas refrigerant is then sucked to the compressor and compressed, increasing its pressure and temperature, ready to start the whole cycle once again.

CAPILLARY TUBE



...AS A HEAT PUMP

1- STAGE ONE

The gaseous refrigerant passes to the compressor and is compressed. When compressed, the pressure is increased and the temperature of the vapor rises, effectively concentrating the heat.

2- STAGE TWO

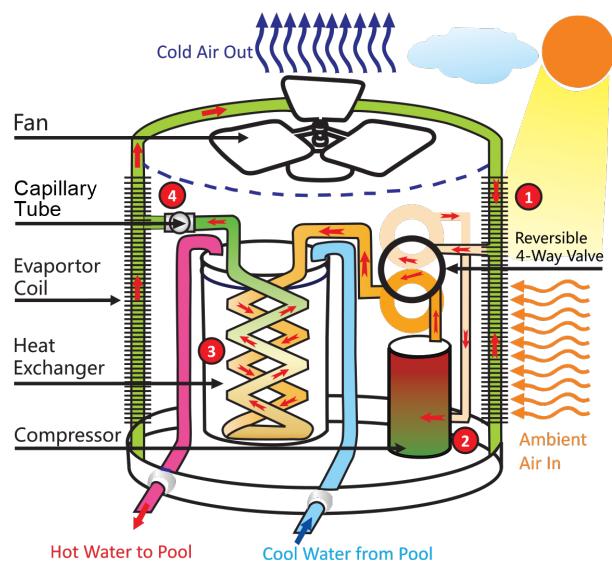
The hot gaseous refrigerant passes to the heat exchanger condenser, where the actual heat transfer takes place: the intensely hot gaseous refrigerant transfers its heat to the water pumped into the heat exchanger and condenses back into a liquid.

3- STAGE THREE

The liquid refrigerant then passes through a capillary tube, reducing its pressure and temperature. The heat transfer medium (the refrigerant) is colder than the outside air.

4- STAGE FOUR

As the outside air passes across the evaporator coil, the liquid refrigerant absorbs heat from the air and evaporates, ready to start the whole cycle once again.



TOP DISCHARGE

 Models

		PH2-02620-60HZ	PH2-02625-60HZ	PH2-02630-60HZ-1	PH2-02630-60HZ-2	PH2-02640-60HZ
Power supply	Refrigerant	R410A	R410A	R410A	R410A	R410A
	V/PH/Hz	220~240/1/50	220~240/1/50	220~240/1/50	380~415/3/50	380~415/3/50
YL-H01-Heating: A24/W26°C	Heating capacity	9.6	12	14	15.4	18.02
	BTU/h	32,755	40,944	47,768	52,545	61,484
	Power input	1.7	2.2	2.5	3.1	3.4
YL-H02-Heating: A15/W26°C	COP	5.58	5.39	5.50	5.04	5.25
	Heating capacity	8.1	10.2	11.9	13.1	15.3
	BTU/h	27,637	34,802	40,603	44,663	52,262
YL-C01-Cooling: A35/W30°C	Power input	1.8	2.3	2.6	3.2	3.6
	COP	4.58	4.40	4.56	4.12	4.29
	Cooling capacity	6.9	9	10	11	13
YL-C02-Cooling: A46/W30	BTU/h	23,584	29,480	34,393	37,832	44,269
	Power input	2.2	2.9	3.5	4.2	5.2
	EER	3.11	3.00	2.90	2.66	2.47
MAX. POWER INPUT	Cooling capacity	5.9	7.3	8.6	9.4	11.0
	BTU/h	20,046	25,058	29,234	32,157	37,628
	Power input	2.5	3.2	3.8	4.6	5.4
MAX. CURRENT	EER	2.39	2.31	2.23	2.05	2.04
	kW	2.7	3.6	4.3	5.3	5.6
	A	13	17	20	9	10
OPERATING	Heating water temp range	15~40	15~40	15~40	15~40	15~40
	Cooling water temp range	10~30	10~30	10~30	10~30	10~30
	Ambient temp range	2 ~ 53	2~53	2~53	2~53	2~53
KEY	Compressor type	Rotary	Rotary	Scroll	Scroll	Scroll
	Controller	micro processor based digital controller with LCD touch screen display				
	Sound pressure 1/5/10m	53/42/36	54/43/37	55/44/38	55/44/38	56/45/39
HEATING EXCHANGER	Type	Titanium /PVC	Titanium /PVC	Titanium /PVC	Titanium /PVC	Titanium /PVC
	Water flow (min.)	1.5	1.9	2.3	2.5	2.9
	Water flow (max)	4.8	6.0	7.0	7.7	9.1
FAN	Water pressure drop (max)	8	10	11	11	12
	Water connection	threaded / 50	threaded / 50	threaded / 50	threaded / 50	threaded / 50
	Water pipe	-	-	-	-	-
DIMENSIONS (L x W x H)	Fan Position	Verticle	Verticle	Verticle	Verticle	Verticle
	Material	Plastic	Plastic	Plastic	Plastic	Plastic
	Air flow	2000	2000	3500	3500	3500
Net weight / Gross weight	Net	670×670×930	670×670×930	715×715×980	715×715×980	715×715×980
	Shipping	730×730×1075	730×730×1075	765×765×1135	765×765×1135	765×765×1135
	-	88/98	98/106	118/130	105/121	111/127

TOP DISCHARGE

 Models

Refrigerant		PH2-02650-60HZ	PH2-02660-60HZ	PH2-02670-60HZ	PH2-02680-R410A	PH2-02685-R410A
Power supply	V/PH/Hz	R410A 380~415/3/50	R410A 380~415/3/50	R410A 380~415/3/50	R410A 380~415/3/50	R410A 380~415/3/50
	kW	23.1	27.5	34.1	35	41.0
YL-H01-Heating: A24/W26°C	Heating capacity BTU/h	78,817	93,830	116,349	119,420	139,892
	kW	4.7	5.8	6.9	6.4	7.5
	Power input W/W	4.88	4.77	4.95	5.50	5.45
	COP					
YL-H02-Heating: A15/W26°C	Heating capacity kW	19.6	23.4	29.0	29.8	34.0
	BTU/h	66,995	79,756	98,897	101,678	116,008
	Power input kW	4.9	6.0	7.2	6.7	7.6
	W/W	3.99	3.90	4.05	4.48	4.50
YL-C01-Cooling: A35/W30°C	Cooling capacity kW	17	20	25	25	30
	BTU/h	56,748	67,558	83,771	85,982	102,360
	Power input kW	6.0	7.2	8.8	8.4	9.7
	W/W	2.75	2.75	2.80	3.00	3.10
YL-C02-Cooling: A46/W30	Cooling capacity kW	14.1	16.8	20.9	21.4	24.5
	BTU/h	48,236	57,424	71,206	73,085	83,526
	Power input kW	6.7	7.9	9.7	9.3	10.3
	W/W	2.12	2.12	2.15	2.31	2.39
MAX. POWER INPUT		kW	7.2	9.0	10.4	11.5
MAX. CURRENT		A	13	16	19	21
OPERATING	Heating water temp range	°C	15~40	15~40	15~40	15~40
	Cooling water temp range	°C	10~30	10~30	10~30	10~30
	Ambient temp range	°C	2~53	2~53	2~53	2~53
KEY	Compressor type	Scroll	Scroll	Scroll	Scroll	Scroll
	Controller	micro processor based digital controller with LCD touch screen display				
HEATING EXCHANGER	Sound pressure 1/5/10m	dB(A)	57/46/40	59/48/43	60/49/43	61/51/45
	Type	Titanium /PVC	Titanium /PVC	Titanium /PVC	Titanium /PVC	Titanium /PVC
	Water flow (min.)	m³/h	3.7	4.4	5.5	5.6
	Water flow (max)	m³/h	11.6	13.8	17.1	17.5
FAN	Water pressure drop (max)	KPa	13	16	20	22
	Water connection	mm	threaded / 50	threaded / 50	threaded / 50	threaded / 63
DIMENSIONS (L x W x H)	Water pipe		-	-	-	PPR OR PVC
	Fan Position		Verticle	Verticle	Verticle	Verticle
	Material		Plastic	Plastic	Plastic	Plastic
	Air flow	m³/h	5500	5500	7500	9000
Net weight / Gross weight	Net	mm	715×715×980	860×860×1085	860×860×1085	950×950×1280
	Shipping	mm	765×765×1135	920×920×1240	920×920×1240	1025×1025×1430
		kg	125/140	128/142	202/220	210/230

TOP DISCHARGE



Models

		PH2-02690-60HZ	PH2-02695-60HZ	PH2-02710-60HZ	PH2-02712-60HZ	PH2-02713-60HZ
Refrigerant		R410A	R410A	R410A	R410A	R410A
Power supply	V/PH/Hz	380~415/3/50	380~415/3/50	380~415/3/50	380~415/3/50	380~415/3/50
	kW	46.8	54.2	44.0	47.3	60.5
YL-H01-Heating: A24/W26°C	Heating capacity BTU/h	159,682	184,862	150,128	161,217	206,426
	kW	8.7	10.2	8.7	8.9	12.8
	Power input W/W	5.40	5.31	5.04	5.29	4.71
	COP	39.0	45.6	37.4	40.2	51.4
YL-H02-Heating: A15/W26°C	Heating capacity BTU/h	133,068	155,587	127,609	137,034	175,462
	kW	8.8	10.4	9.1	9.3	13.4
	Power input W/W	4.45	4.40	4.12	4.32	3.85
	COP	33.0	37.0	32	34.0	43.6
YL-C01-Cooling: A35/W30°C	Cooling capacity BTU/h	112,596	126,244	108,092	116,076	148,627
	kW	11.0	13.0	11.2	11.4	16.7
	Power input W/W	3.00	2.84	2.82	2.97	2.61
	EER	3.00	2.84	2.82	2.97	2.61
YL-C02-Cooling: A46/W30	Cooling capacity kW	28.1	31.5	26.9	28.9	37.0
	BTU/h	95,707	107,307	91,878	98,665	126,333
	Power input kW	12.1	14.4	12.4	12.6	18.4
	W/W	2.31	2.19	2.17	2.29	2.01
	EER	2.31	2.19	2.17	2.29	2.01
	W/W	14.6	17.3	14.0	14.3	20.6
MAX. POWER INPUT		kW	31	25	26	37
MAX. CURRENT		A	15~40	15~40	15~40	15~40
OPERATING	Heating water temp range	°C	10~30	10~30	10~30	10~30
	Cooling water temp range	°C	2~53	2~53	2~53	2~53
	Ambient temp range	°C	Scroll	Scroll	Scroll	Scroll
KEY	Compressor type		micro processor based digital controller with LCD touch screen display			
	Controller					
HEATING EXCHANGER	Sound pressure 1/5/10m	dB(A)	61/51/45	61/50/45	63/53/47	65/55/49
	Type		Titanium /PVC	Titanium /PVC	Titanium /PVC	Titanium /PVC
	Water flow (min.)	m³/h	7.5	8.7	7.1	7.6
	Water flow (max)	m³/h	23.4	27.0	22.1	23.7
FAN	Water pressure drop (max)	KPa	23	24	23	25
	Water connection	mm	threaded / 63	threaded / 63	threaded / 63	threaded / 63
	Water pipe		PPR OR PVC	PPR OR PVC	PPR or PVC	PPR or PVC
	Fan Position		Vertical	Vertical	Vertical	Vertical
DIMENSIONS (L x W x H)	Material		Plastic	Plastic	Plastic	Plastic
	Air flow	m³/h	9000	13000	9000	10000
	Net	mm	950×950×1280	950×950×1280	1453×708×1084	1453×708×1084
	Shipping	mm	1025×1025×1430	1025×1025×1430	1510×775×1225	1510×775×1225
Net weight / Gross weight		kg	214/234	218/238	254/280	259/285
						285/310

TOP DISCHARGE

 Models

Refrigerant		PH2-02714-60HZ	PH2-02715-60HZ	PH2-02720-60HZ	PH2-02730-60HZ	PH2-02740-60HZ
Power supply	V/PH/Hz	R410A 380~415/3/50	R410A 380~415/3/50	R410A 380~415/3/50	R410A 380~415/3/50	R410A 380~415/3/50
	kW	73.125	82	100	135	160
YL-H01-Heating: A24/W26°C	Heating capacity BTU/h	249,503	279,784	341,200	460,620	545,920
	kW	14.3	14.9	18.2	24.5	29.1
	Power input W/W	5.11	5.50	5.50	5.50	5.50
	COP	62.2	69.7	85.0	114.8	136.0
YL-H02-Heating: A15/W26°C	Heating capacity BTU/h	212,077	237,816	290,020	391,527	464,032
	kW	14.9	15.8	19.7	26.6	31.5
	Power input W/W	4.18	4.40	4.32	4.32	4.32
	COP	51	59	72	97	115
YL-C01-Cooling: A35/W30°C	Cooling capacity BTU/h	175,650	201,444	245,664	331,646	393,062
	kW	18.1	19.8	24.8	30.4	36.0
	Power input W/W	2.84	2.98	2.90	3.20	3.20
	EER	43.8	50.2	61.2	82.6	97.9
YL-C02-Cooling: A46/W30	Cooling capacity BTU/h	149,302	171,228	208,814	281,899	334,103
	kW	20.0	21.9	27.4	33.5	39.7
	Power input W/W	2.19	2.29	2.23	2.46	2.46
	EER	22.4	24.5	32.3	39.6	48.4
MAX. POWER INPUT		40	44	58	71	83
MAX. CURRENT		15~40	15~40	15~40	15~40	15~40
OPERATING	Heating water temp range	10~30	10~30	10~30	10~30	10~30
	Cooling water temp range	2~53	2~53	2~53	2~53	2~53
	Ambient temp range	Scroll	Scroll	Scroll	Scroll	Scroll
KEY	Compressor type	micro processor based digital controller with LCD touch screen display				
	Controller					
HEATING EXCHANGER	Sound pressure 1/5/10m	66/56/51	67/57/52	68/58/53	69/60/55	70/61/56
	Type	Titanium /PVC	Titanium /PVC	Titanium /PVC	Titanium /PVC	Titanium /PVC
	Water flow (min.)	11.8	13.2	16.1	21.7	25.8
	Water flow (max)	36.7	40.9	49.9	67.4	79.9
FAN	Water pressure drop (max)	26	27	27	28	28
	Water connection	threaded / 63	threaded / 63	flange/90	flange/110	flange/110
	Water pipe	PPR or PVC	PPR or PVC	PVC	PVC	PVC
	Fan Position	Verticle	Verticle	Verticle	Verticle	Verticle
DIMENSIONS (L x W x H)	Material	Plastic	Plastic	Plastic	Plastic	Plastic
	Air flow	15000	18000	22000	28000	33000
	Net	1890×1000×1328	1890×1000×1328	1890×1000×1328	2188×1240×2340	2188×1240×2340
	Shipping	1965×1075×1490	1965×1075×1490	1965×1075×1490	2275×1325×2530	2275×1325×2530
Net weight / Gross weight		356/384	404/458	489/517	1100/1130	1150/1180

TOP DISCHARGE

Models

		PH2-02750-60HZ	PH2-02760-60HZ	PH2-02765-60HZ	PH2-02770-60HZ	PH2-02780-60HZ
Power supply	Refrigerant	R410A	R410A	R410A	R410A	R410A
	V/PH/Hz	380~415/3/50	380~415/3/50	380~415/3/50	380~415/3/50	380~415/3/50
YL-H01-Heating: A24/W26°C	Heating capacity	180	220.0	235.0	250.0	350
	BTU/h	614,160	750,640	801,820	853,000	1,194,200
	kW	32.7	41.8	45.2	48.5	63.6
YL-H02-Heating: A15/W26°C	Power input	5.50	5.26	5.20	5.15	5.50
	COP	153.0	187.0	199.8	212.5	297.5
	BTU/h	522,036	638,044	681,547	725,050	1,015,070
YL-C01-Cooling: A35/W30°C	Power input	36.1	43.5	47.0	50.5	72.8
	COP	4.24	4.30	4.25	4.21	4.09
	kW	130	157.0	169.0	180.0	252
YL-C02-Cooling: A46/W30	Heating capacity	442,195	535,684	576,628	614,160	859,824
	BTU/h	41.8	52.3	56.3	63.2	85.1
	kW	3.10	3.00	3.00	2.85	2.96
MAX. POWER INPUT	Power input	110.2	134.6	143.8	153.0	214.2
	BTU/h	375,866	459,392	490,714	522,036	730,850
	kW	46.1	58.3	62.3	69.7	94.0
MAX. CURRENT	EER	2.39	2.31	2.31	2.19	2.28
	W/W	51.7	65.3	69.7	78.1	105.3
	kW	92	117	125	139	188
OPERATING	Heating water temp range	15~40	15~40	15~40	15~40	15~40
	Cooling water temp range	10~30	10~30	10~30	10~30	10~30
	Ambient temp range	2~53	2~53	2~53	2~53	2~53
KEY	Compressor type	Scroll	Scroll	Scroll	Scroll	Scroll
	Controller	micro processor based digital controller with LCD touch screen display				
	Sound pressure 1/5/10m	72/63/58	73/64/59	73/64/59	75/66/61	77/68/63
HEATING EXCHANGER	Type	Titanium /PVC	Titanium /PVC	Titanium /PVC	Titanium /PVC	Titanium /PVC
	Water flow (min.)	29.0	35.4	37.8	40.3	56.4
	Water flow (max)	89.9	109.8	117.3	124.8	174.7
FAN	Water pressure drop (max)	29	30	33	34	35
	Water connection	flange/110	flange/110	flange/110	flange/160	flange/160
	Water pipe	PVC	PVC	PVC	PPR or PVC	PVC
DIMENSIONS (L x W x H)	Fan Position	Verticle	Verticle	Verticle	Verticle	Verticle
	Material	Plastic	Plastic	Plastic	Plastic	Plastic
	Air flow	39000	44000	44000	55000	77000
Net weight / Gross weight	Net	2188×1240×2340	2188×1240×2340	2320×1240×2340	2410×1280×2340	3200×2188×2340
	Shipping	2275×1325×2530	2275×1325×2530	2405×1325×2530	2500×1415×2530	3250×2238×2530
	-	1180/1210	1200/1230	1250/1280	1350/1390	2030/2100

FRONT DISCHARGE



Models

		PHFD2-02610-60HZ	PHFD2-02615-60HZ	PHFD2-02620-60HZ	PHFD2-02625-60HZ	PHFD2-02630-1-60HZ
Refrigerant	V/PH/HZ	R410A	R410A	R410A	R410A	R410A
	220/1/60	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50
YL-H01-Heating: A24/W26°C	Power supply					
	Heating capacity	kW	5.3	7.3	8.6	10.8
		BTU/h	18,084	24,908	29,343	36,850
	Power input	kW	1.0	1.4	1.6	2.0
YL-H02-Heating: A15/W26°C	COP	W/W	5.25	5.31	5.44	5.33
	Heating capacity	kW	4.1	5.6	6.9	8.9
		BTU/h	13,989	19,107	23,543	30,367
	Power input	kW	1	1.4	1.7	2.1
YL-C01-Cooling: A35/W30°C	COP	W/W	4.1	4	4.30	4.21
	Cooling capacity	kW	3.7	5.1	6.0	7.5
		BTU/h	12,659	17,435	20,540	25,590
	Power input	kW	1.3	1.8	2.0	2.6
YL-C02-Cooling: A46/W30	EER	W/W	2.9	2.9	3.01	2.90
	Cooling capacity	kW	3.2	4.3	5.1	6.4
		BTU/h	10,760	14,820	17,459	21,837
	Power input	kW	1.4	1.9	2.2	2.9
MAX.	EER	W/W	2.23	2.23	2.32	2.23
	Power input	kW	1.6	2.2	2.9	3.6
	Current	A	7	11	14	17
						20
OPERATING	Water outlet temp.range	°C	15~40	15~40	15~40	15~40
	Ambient temp.range	°C	2~53	2~53	2~53	2~53
KEY	Compressor type		Rotary	Rotary	Rotary	Scroll
	Sound pressure 1/5/10m	dB(A)	50/38/33	52/40/35	53/41/36	54/42/37
HEAT EXCHANGER	Type		Titanium / PVC	Titanium / PVC	Titanium / PVC	Titanium/PVC
	Water flow (min.)	m³/h	0.9	1.2	1.6	1.8
	Water flow (max.)	m³/h	2.6	3.6	4.9	5.4
	Water pressure drop(max)	KPa	4	6	8	9
	Water pipe		-	-	-	-
FAN	Water connection	mm	threaded /50	threaded /50	threaded /50	threaded /50
	Position		horizontal	Horizontal	Horizontal	horizontal
DIMENSIONS (L x W x H)	Air flow	m³/h	1200	2000	2000	3000
	Net	mm	900×340×623	900×340×623	900×340×623	1100×440×673
	Shipping	mm	960×400×773	960×400×773	960×400×773	1157×497×823
Net weight / Gross weight	-	kg	48/55	60/71	62/73	63/75
						102/109

FRONT DISCHARGE



Models

		PHFD2-02630-2-60HZ	PHFD2-02640-60HZ	PHFD2-02650-60HZ	PHFD2-02660-60HZ	PHFD2-02670-60HZ
Refrigerant		R410A	R410A	R410A	R410A	R410A
YL-H01-Heating: A24/W26°C	Power supply	V/PH/Hz	380-415/3/60	380-415/3/60	380-415/3/60	380-415/3/60
	Heating capacity	kW	15.7	18.0	23.5	28.0
		BTU/h	53,500	61,484	80,250	95,536
	Power input	kW	3.2	3.5	4.8	5.7
YL-H02-Heating: A15/W26°C	COP	W/W	4.90	5.15	4.95	4.90
		kW	13.3	15.3	20.0	23.8
	Heating capacity	BTU/h	45,475	52,262	68,213	81,206
		kW	3.3	3.6	4.8	5.8
YL-H03-Cooling: A35/W26°C	COP	W/W	4.05	4.30	4.16	4.09
		kW	11.3	13.0	16.6	19.8
	Cooling capacity	BTU/h	38,520	44,269	56,748	67,558
		kW	3.9	4.4	6.3	6.8
YL-C01-Cooling: A46/W30°C	EER	W/W	2.89	2.97	2.66	2.93
		kW	9.6	11.0	14.4	17.1
	Cooling capacity	BTU/h	32,742	37,628	49,113	58,468
		kW	4.3	4.8	6.9	7.5
MAX.	EER	W/W	2.23	2.29	2.08	2.30
		kW	5.3	5.6	7.2	8.9
	Current	A	9	10	13	16
		°C	15~40	15~40	15~40	15~40
OPERATING	Ambient temp.range	°C	2~53	2~53	2~53	2~53
		Compressor type	Scroll	Scroll	Scroll	Scroll
	Sound pressure 1/5/10m	dB(A)	55/44/38	55/44/38	56/45/39	58/47/41
		Type	Titanium/PVC	Titanium/PVC	Titanium/PVC	Titanium/PVC
HEAT EXCHANGER	Water flow (min.)	m³/h	2.5	2.9	3.8	4.5
		m³/h	7.8	9.0	11.7	14.0
	Water pressure drop(max)	KPa	11	12	13	16
		Water pipe	—	—	—	PPR or PVC
FAN	Water connection	mm	threaded /50	threaded /50	threaded /50	threaded /50
		Position	horizontal	horizontal	horizontal	horizontal
	Air flow	m³/h	3000	3000	3500	5500
		mm	1100×440×673	1100×440×673	1100×440×873	1100×440×973
DIMENSIONS (L x W x H)	Net	mm	1157×497×823	1157×497×823	1157×497×1023	1157×497×1130
	Shipping	kg	102/109	106/113	107/129	136/151
WEIGHT	-					160/175

FRONT DISCHARGE

 Models

		PHFD2-02680-60HZ	PHFD2-02710-60HZ	PHFD2-02712-60HZ	PHFD2-02713-60HZ	PHFD2-02714-60HZ
Refrigerant		R410A	R410A	R410A	R410A	R410A
Power supply	V/PH/Hz	380-415/3/60	380-415/3/60	380-415/3/60	380-415/3/60	380-415/3/60
	kW	36.0	44.0	47.3	61.6	72.8
YL-H01-Heating: A24/W26°C	BTU/h	122,832	150,128	161,217	210,179	248,394
	kW	7.1	9.2	8.9	12.5	14.7
COP	W/W	5.07	4.77	5.29	4.92	4.95
	kW	30.8	37.4	40.2	52.4	61.9
YL-H02-Heating: A15/W26°C	BTU/h	105,090	127,609	137,034	178,652	211,135
	kW	7.4	8.9	9.3	12.7	14.6
COP	W/W	4.16	4.21	4.32	4.11	4.23
	kW	26.5	31.7	34.0	43.6	52.4
YL-H03-Cooling: A35/W26°C	BTU/h	90,418	108,092	116,076	148,627	178,843
	kW	8.8	11.2	11.4	15.8	17.6
EER	W/W	3.01	2.83	2.97	2.75	2.99
	kW	22.3	26.9	28.9	37.0	44.6
YL-C01-Cooling: A46/W30°C	BTU/h	75,951	91,878	98,665	126,333	152,017
	kW	9.6	12.4	12.6	17.5	19.4
EER	W/W	2.32	2.18	2.29	2.12	2.30
	kW	11.2	14.0	14.3	20.6	22.4
MAX.	Current	20	25	26	37	40
	°C	15~40	15~40	15~40	15~40	15~40
OPERATING	°C	2~53	2~53	2~53	2~53	2~53
	Compressor type	Scroll	Scroll	Scroll	Scroll	Scroll
KEY	Sound pressure 1/5/10m	61/52/46	63/53/48	63/53/48	65/55/50	66/57/51
	Type	Titanium/PVC	Titanium/PVC	Titanium/PVC	Titanium/PVC	Titanium/PVC
HEAT EXCHANGER	Water flow (min.)	5.8	7.1	7.6	9.9	11.7
	Water flow (max.)	18.0	22.0	23.6	30.8	36.3
	Water pressure drop(max)	22	23	23	25	26
	Water pipe	threaded /50	PPR or PVC	PPR or PVC	PPR or PVC	PPR or PVC
FAN	Water connection	mm	threaded /63	threaded /63	threaded /63	threaded /63
	Position	horizontal	horizontal	horizontal	horizontal	horizontal
DIMENSIONS (L x W x H)	Air flow	m³/h	7000	10000	13000	15000
	Net	mm	1100×440×1378	1455×755×1705	1455×755×1705	1655×755×1705
WEIGHT	Shipping	mm	1157×497×1528	1505×805×1855	1505×805×1855	1705×805×1855
	-	kg	170/185	333/368	350/385	445/485

FRONT DISCHARGE



Models

		PHFD2-02715-60HZ	PHFD2-02720-60HZ	PHFD2-02730-60HZ	PHFD2-02740-60HZ	PHFD2-02760-60HZ
Refrigerant		R410A	R410A	R410A	R410A	R410A
YL-H01-Heating: A24/W26°C	Power supply	V/PH/Hz	380-415/3/60	380-415/3/60	380-415/3/60	380-415/3/60
	Heating capacity	kW	85.5	108.0	150.0	162.0
		BTU/h	291,726	368,496	511,800	552,744
	Power input	kW	16.1	20.5	29.0	32.0
YL-H02-Heating: A15/W26°C	COP	W/W	5.31	5.27	5.17	5.06
	Heating capacity	kW	71.0	91.1	126.2	136.8
		BTU/h	242,252	310,833	430,680	466,762
	Power input	kW	18.8	22.8	31.0	34.2
YL-H03-Cooling: A35/W26°C	COP	W/W	4.22	4.06	4.07	4.00
	Cooling capacity	kW	59.9	75.6	106.9	113.4
		BTU/h	204,208	257,947	364,811	386,921
	Power input	kW	20.9	27.0	39.8	41.0
YL-C01-Cooling: A46/W30°C	EER	W/W	2.86	2.80	2.69	2.77
	Cooling capacity	kW	50.9	64.3	90.9	96.4
		BTU/h	173,577	219,255	310,089	328,883
	Power input	kW	22.0	29.8	43.9	45.0
MAX.	EER	W/W	2.31	2.16	2.07	2.14
	Power input	kW	25.0	33.5	49.0	51.0
	Current	A	45	60	88	91
	Water outlet temp.range	°C	15~40	15~40	15~40	15~40
OPERATING	Ambient temp.range	°C	'2~53	'2~53	'2~53	10~30
	Compressor type		Scroll	Scroll	Scroll	Scroll
	Noise	dB(A)	67/58/52	68/59/53	69/60/54	70/61/55
	Type		Titanium/PVC	Titanium/PVC	Titanium/PVC	Titanium/PVC
HEAT EXCHANGER	Water flow (min.)	m³/h	13.8	17.4	21.7	26.1
	Water flow (max.)	m³/h	42.7	53.9	67.4	80.9
	Water pressure drop(max)	KPa	27	27	28	28
	Water pipe		PPR or PVC	PPR or PVC	PPR or PVC	PPR or PVC
FAN	Water connection	mm	threaded /63	flange/ 110	flange/ 110	flange/ 110
	Position		horizontal	horizontal	horizontal	horizontal
	Air flow	m³/h	18000	22000	28000	33000
	Net	mm	2188×1000×1705	2188×1000×1705	2500×1320×2340	2900×1370×2340
DIMENSIONS (L x W x H)	Shipping	mm	2238×1085×1855	2238×1085×1855	2585×1405×2530	2985×1455×2530
	WEIGHT	kg	480/515	536/576	727/781	775/829
						1200/1230



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