

TEMPERATURE CONTROL 14/02

AIR TO WATER HEATING / COOLING PUMP

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.

TEMPERATURE CONTROL

? 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.

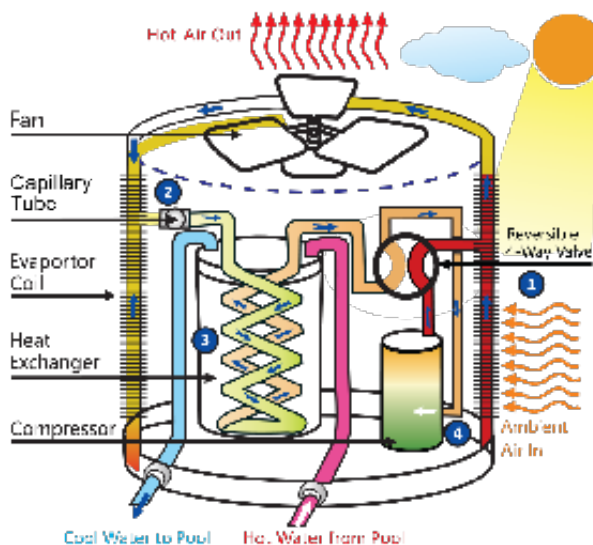
3- STAGE THREE

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

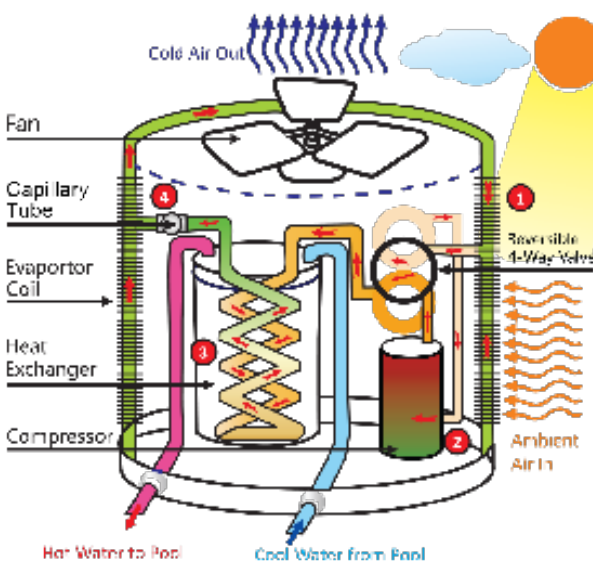
The hot gaseous refrigerant passes to the heat exchanger condenser, where the actual heat transfer takes place: the intensely hot gaseous refrigerant transfers its heat to the water pumped into the heat exchanger and condenses back into a liquid.

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-R410A		PH2-02625-R410A		PH2-02630-R410A-1		PH2-02630-R410A-2		PH2-02640-R410A	
Power supply	Refrigerant	R410A		R410A		R410A		R410A	
	V/PH/Hz	220~240/1/50		220~240/1/50		220~240/1/50		380~415/3/50	
YL-H01-Heating: A24/W26°C	Heating capacity	9.5		12.0		14.0		17.0	
	BTU/h	32,414		40,944		47,768		58,004	
	Power input	1.7		2.2		2.5		3.1	
YL-H02-Heating: A15/W26°C	COP	5.6		5.4		5.5		5.4	
	kW	8.1		10.2		11.9		14.5	
	BTU/h	27,552		34,802		40,603		49,303	
YL-C01-Cooling: A35/W30°C	Power input	1.8		2.3		2.6		3.3	
	COP	4.5		4.4		4.5		4.4	
	kW	6.8		8.6		10.1		12.2	
YL-C02-Cooling: A46/W30	Power input	23,338		29,480		34,393		41,763	
	EER	3.1		3.0		2.9		2.8	
	kW	5.8		7.3		8.6		10.4	
MAX. POWER INPUT	Power input	19,837		25,058		29,234		35,498	
	EER	2.4		3.2		3.8		4.8	
	kW	2.4		2.3		2.2		2.2	
MAX. CURRENT	Heating water temp range	13		17		21		8	
	Cooling water temp range	15~40		15~40		15~40		15~40	
	Ambient temp range	10~30		10~30		10~30		10~30	
KEY	Compressor type	Rotary		Rotary		Scroll		Scroll	
	Controller	micro processor based digital controller with LCD touch screen display		54/43/37		55/44/38		56/45/39	
	Sound pressure 1/5/10m	53/42/36		54/43/37		55/44/38		56/45/39	
HEATING EXCHANGER	Type	Titanium /PVC		Titanium /PVC		Titanium /PVC		Titanium /PVC	
	Water flow (min.)	1.5		1.9		2.3		2.7	
	Water flow (max)	4.7		6.0		7.0		8.5	
FAN	Water pressure drop (max)	8		10		11		12	
	Water connection	BSP threaded / 1-1/2"		BSP threaded / 1-1/2"		BSP threaded / 1-1/2"		BSP threaded / 1-1/2"	
	Water pipe	-		-		-		-	
DIMENSIONS (L x W x H)	Fan Position	Vertical		Vertical		Vertical		Vertical	
	Material	Plastic		Plastic		Plastic		Plastic	
	Air flow	2000		2000		3500		3500	
Net weight / Gross weight	Net	670×670×930		670×670×930		715×715×980		715×715×980	
	Shipping	730×730×1075		730×730×1075		765×765×1135		765×765×1135	
	-	98/106		98/106		105/121		111/127	

TOP DISCHARGE

 Models

Refrigerant		PH2-02650-R410A	PH2-02660-R410A	PH2-02670-R410A	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	21.0	25.0	31.0	35.0	40.0
YL-H01-Heating: A24/W26°C	Heating capacity BTU/h	71,652	85,300	105,772	119,420	136,480
	kW	3.9	4.8	5.7	6.6	7.3
	Power input W/W	5.3	5.2	5.4	5.3	5.5
	COP					
YL-H02-Heating: A15/W26°C	Heating capacity kW	17.9	21.3	26.4	29.8	34.0
	BTU/h	60,904	72,505	89,906	101,507	116,008
	Power input kW	4.1	5.0	6.0	6.9	7.6
	W/W	4.3	4.2	4.4	4.3	4.5
YL-C01-Cooling: A35/W30°C	Cooling capacity kW	15.1	18.0	22.3	25.2	28.8
	BTU/h	51,589	61,416	76,156	85,982	98,266
	Power input kW	5.0	6.0	7.3	8.4	9.3
	W/W	3.0	3.0	3.1	3.0	3.1
YL-C02-Cooling: A46/W30	Cooling capacity kW	12.9	15.3	19.0	21.4	24.5
	BTU/h	43,851	52,204	64,732	73,085	83,526
	Power input kW	5.6	6.6	8.1	9.3	10.3
	W/W	2.3	2.3	2.3	2.3	2.4
MAX.POWER INPUT		6.2	7.4	9.0	10.4	11.5
MAX.CURRENT		11	13	16	19	21
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	-15~53	-15~53	-15~53	-15~53	-15~53
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	57/46/40	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.)	3.4	4.0	5.0	5.6	6.4
	Water flow (max) Water pressure drop (max)	10.5 KPa	12.5 15	15.5 20	17.5 22	20.0 22
FAN	Water connection	BSP threaded / 1-1/2"	BSP threaded / 1-1/2"	BSP threaded / 1-1/2"	BSP threaded / 1-1/2"	BSP threaded / 2"
	Water pipe	-	-	-	-	PPR OR PVC
	Fan Position	Verticle	Verticle	Verticle	Verticle	Verticle
DIMENSIONS (L x W x H)	Material	Plastic	Plastic	Plastic	Plastic	Plastic
	Air flow	5500	715×715×980	860×860×1085	860×860×1085	950×950×1280
	Net	715×715×980	765×765×1135	920×920×1240	920×920×1240	1025×1025×1430
	Shipping	765×765×1135	128/142	202/220	208/226	210/230
Net weight / Gross weight		125/140	128/142	144/163	150 / 169	230 / 255

TOP DISCHARGE

 Models

Refrigerant		PH2-02690-R410A	PH2-02695-R410A	PH2-02710-R410A	PH2-02712-R410A	PH2-02713-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	45.0	55.0	40.0	45.0	55.0
YL-H01-Heating: A24/W26°C	Heating capacity BTU/h	153,540	187,660	136,480	153,540	187,660
	kW	8.4	10.5	7.3	8.4	10.6
	Power input W/W	5.4	5.2	5.5	5.3	5.2
	COP					
YL-H02-Heating: A15/W26°C	Heating capacity kW	38.3	46.8	34.0	38.3	46.8
	BTU/h	130,509	159,511	116,008	130,509	159,511
	Power input kW	8.7	10.9	7.6	8.8	11.0
	W/W	4.4	4.3	4.5	4.4	4.2
YL-C01-Cooling: A35/W30°C	Cooling capacity kW	32.4	39.6	28.8	32.4	39.6
	BTU/h	110,549	135,115	98,266	110,549	135,115
	Power input kW	10.8	13.7	9.3	10.8	13.7
	W/W	3.0	2.9	3.1	3.0	2.9
YL-C02-Cooling: A46/W30	Cooling capacity kW	27.5	33.7	24.5	27.5	33.7
	BTU/h	93,966	114,848	83,526	93,966	114,848
	Power input kW	11.9	15.1	10.3	11.9	15.1
	W/W	2.3	2.2	2.4	2.3	2.2
MAX. POWER INPUT		13.4	16.9	11.5	13.4	16.9
MAX. CURRENT		24	30	21	24	30
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	-15~53	-15~53	-15~53	-15~53	-15~53
KEY	Compressor type	Scroll	Scroll	Scroll	Scroll	Scroll
	Controller	micro processor based digital controller with LCD touch screen display				
	Sound pressure 1/5/10m	63/53/47	65/55/49	61/50/45	63/53/47	65/55/49
HEATING EXCHANGER	Type	Titanium /PVC	Titanium /PVC	Titanium /PVC	Titanium /PVC	Titanium /PVC
	Water flow (min.)	7.2	8.9	6.4	7.2	8.9
	Water flow (max)	22.5	27.5	20.0	22.5	27.5
	Water pressure drop (max)	23	25	22	23	25
FAN	Water connection	BSP threaded / 2"	BSP threaded / 2"	BSP threaded / 2"	BSP threaded / 2"	BSP threaded / 2"
	Water pipe	PPR OR PVC	PPR OR PVC	PPR OR PVC	PPR OR PVC	PPR OR PVC
	Fan Position	Verticle	Verticle	Verticle	Verticle	Verticle
	Material	Plastic	Plastic	Plastic	Plastic	Plastic
DIMENSIONS (L x W x H)	Air flow	10000	13000	9000	10000	13000
	Net	950×950×1280	950×950×1280	1453×708×1084	1453×708×1084	1453×708×1084
	Shipping	1025×1025×1430	1025×1025×1430	1510×775×1225	1510×775×1225	1510×775×1225
Net weight / Gross weight		214/234	218/238	254/280	259/285	285/310

TOP DISCHARGE

 Models

Refrigerant		PH2-02714-R410A	PH2-02715-R410A	PH2-02720-R410A	PH2-02730-R410A	PH2-02740-R410A
Power supply	V/PH/Hz	R410A	R410A	R410A	R410A	R410A
		65.0	82.0	100.0	135.0	160.0
YL-H01-Heating: A24/W26°C	Heating capacity	221,780	279,784	341,200	460,620	545,920
	BTU/h	11.8	15.2	19.0	24.5	29.5
Power input	kW	5.5	5.4	5.3	5.5	5.4
	W/W	5.5	5.5	5.5	5.5	5.5
COP						
YL-H02-Heating: A15/W26°C	Heating capacity	55.3	69.7	85.0	114.8	136.0
	BTU/h	188,513	237,816	290,020	391,527	464,032
Power input	kW	12.3	15.8	19.8	25.5	30.6
	W/W	4.5	4.4	4.3	4.5	4.4
COP						
YL-C01-Cooling: A35/W30°C	Cooling capacity	46.8	59.0	72.0	97.2	115.2
	BTU/h	159,682	201,444	245,664	331,646	393,062
Power input	kW	14.9	19.8	24.8	30.4	36.0
	W/W	3.2	3.0	2.9	3.2	3.2
EER						
YL-C02-Cooling: A46/W30	Cooling capacity	39.8	50.2	61.2	82.6	97.9
	BTU/h	135,729	171,228	208,814	281,899	334,103
Power input	kW	16.4	21.9	27.4	33.5	39.7
	W/W	2.4	2.3	2.2	2.5	2.5
EER						
MAX. POWER INPUT						
MAX. CURRENT						
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	-15~53	-15~53	-15~53	-15~53	-15~53
	Compressor type	Scroll	Scroll	Scroll	Scroll	Scroll
KEY	Controller	micro processor based digital controller with LCD touch screen display				
	Sound pressure 1/5/10m	66/56/51	67/57/52	68/58/53	69/60/55	70/61/56
HEATING EXCHANGER	Type	Titanium /PVC	Titanium /PVC	Titanium /PVC	Titanium /PVC	Titanium /PVC
	Water flow (min.)	10.5	13.2	16.1	21.7	25.8
	Water flow (max)	32.5	40.9	49.9	67.4	79.9
	Water pressure drop (max)	26	27	27	28	28
FAN	Water connection	BSP threaded / 2"	BSP threaded / 2"	flange/ 3"	flange/ 4"	flange/ 4"
	Water pipe	PPR or PVC	PPR or PVC	PVC	PVC	PVC
	Fan Position	Verticle	Verticle	Verticle	Verticle	Verticle
	Material	Plastic	Plastic	Plastic	Plastic	Plastic
DIMENSIONS (L x W x H)	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

Refrigerant		PH2-02750-R410A	PH2-02760-R410A	PH2-02765-R410A	PH2-02770-R410A	PH2-02780-R410A
Power supply	V/PH/Hz	R410A	R410A	R410A	R410A	R410A
		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	kW	220.0	235.0	250.0	350.0
		BTU/h	750,640	801,820	853,000	1,194,200
	Power input	kW	41.5	45.1	48.4	68.2
YL-H02-Heating: A15/W26°C	COP	W/W	5.3	5.2	5.2	5.1
		kW	153.0	199.8	212.5	297.5
	Heating capacity	BTU/h	522,036	681,547	725,050	1,015,070
YL-C01-Cooling: A35/W30°C	Power input	kW	34.9	46.9	50.4	71.0
	COP	W/W	4.4	4.3	4.2	4.2
		kW	129.6	169.2	180.0	252.0
YL-C02-Cooling: A46/W30	Cooling capacity	BTU/h	442,195	577,310	614,160	859,824
	Power input	kW	41.8	56.4	63.2	85.1
	EER	W/W	3.1	3.0	2.9	3.0
MAX. POWER INPUT	Cooling capacity	kW	110.2	143.8	153.0	214.2
		BTU/h	375,866	490,714	522,036	730,850
	Power input	kW	46.1	62.3	69.7	94.0
MAX. CURRENT	EER	W/W	2.4	2.3	2.2	2.3
		kW	51.7	69.7	78.1	105.3
		A	92	125	139	188
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	-15~53	-15~53	-15~53	-15~53
KEY	Compressor type		Scroll	Scroll	Scroll	Scroll
	Controller		micro processor based digital controller with LCD touch screen display			
	Sound pressure 1/5/10m	dB(A)	72/63/58	73/64/59	75/66/61	77/68/63
HEATING EXCHANGER	Type		Titanium /PVC	Titanium /PVC	Titanium /PVC	Titanium /PVC
	Water flow (min.)	m³/h	29.0	35.4	40.3	56.4
	Water flow (max)	m³/h	89.9	109.8	124.8	174.7
FAN	Water pressure drop (max)	KPa	29	33	34	35
	Water connection	Inch	flange/ 4"	flange/ 4"	flange/ 4"	flange/ 6"
	Water pipe		PVC	PVC	PPR or PVC	PVC
DIMENSIONS (L x W x H)	Fan Position		Verticle	Verticle	Verticle	Verticle
	Material		Plastic	Plastic	Plastic	Plastic
	Air flow	m³/h	39000	44000	55000	77000
Net weight / Gross weight	Net	mm	2188×1240×2340	2320×1240×2340	2410×1280×2340	3200×2188×2340
	Shipping	mm	2275×1325×2530	2405×1325×2530	2500×1415×2530	3250×2238×2530
	-	kg	1180/1210	1200/1230	1350/1390	2030/2100

FRONT DISCHARGE

 Models

Refrigerant		PHFD2-02610-R410A		PHFD2-02615-R410A		PHFD2-02620-R410A		PHFD2-02625-R410A		PHFD2-02630-R410A-1	
YL-H01-Heating: A24/W26°C	Power supply	V/PH/Hz	R410A	220~240/1/50	R410A	220~240/1/50	R410A	220~240/1/50	R410A	220~240/1/50	R410A
	Heating capacity	kW		7.3		9.8		12.0		14.0	
		BTU/h		24,908		33,438		40,944		47,768	
	Power input	kW		1.4		1.8		2.3		2.7	
YL-H02-Heating: A15/W26°C	COP	W/W		5.4		5.3		5.3		5.3	
	Heating capacity	kW		6.2		8.3		10.2		11.9	
		BTU/h		21,171		28,422		34,802		40,603	
	Power input	kW		1.4		1.9		2.3		2.7	
YL-H03-Heating: A7/W26°C	COP	W/W		4.5		4.4		4.4		4.4	
	Heating capacity	kW		5.3		7.1		8.6		10.1	
		BTU/h		17,933		24,075		29,480		34,393	
	Power input	kW		1.6		2.3		3.0		3.3	
YL-C01-Cooling: A35/W30°C	EER	W/W		3.2		3.0		2.9		3.1	
	Cooling capacity	kW		4.5		6.0		7.3		8.6	
		BTU/h		15,243		20,464		25,058		29,234	
	Power input	kW		1.8		2.6		3.3		3.6	
MAX.	EER	W/W		2.5		2.3		2.2		2.4	
	Power input	kW		2.2		2.9		3.6		4.3	
		A		11		15		19		8	
	Current										
OPERATING	Water outlet temp.range	°C		15~40		15~40		15~40		15~40	
	Ambient temp.range	°C		10~30		10~30		10~30		10~30	
KEY	Compressor type			Rotary		Rotary		Rotary		Scroll	
	Sound pressure 1/5/10m	dB(A)		52/40/35		53/41/36		54/42/37		55/44/38	
HEAT EXCHANGER	Type			Titanium / PVC		Titanium / PVC		Titanium / PVC		Titanium/PVC	
	Water flow (min.)	m³/h		0.8		1.2		1.9		2.3	
	Water flow (max.)	m³/h		2.5		3.6		6.0		7.0	
	Water pressure drop(max)	KPa		4		6		6		7	
	Water pipe			-		-		-		-	
	Water connection	Inch		BSP threaded / 1-1/2"		BSP threaded / 1-1/2"		BSP threaded / 1-1/2"		BSP threaded / 1-1/2"	
FAN	Position			horizontal		Horizontal		Horizontal		horizontal	
	Air flow	m³/h		1200		2000		2000		3000	
DIMENSIONS (L x W x H)	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		102/109	

FRONT DISCHARGE



Refrigerant		PHFD2-02630-R410A-2	PHFD2-02640-R410A	PHFD2-02650-R410A	PHFD2-02660-R410A	PHFD2-02670-R410A
YL-H01-Heating: A24/W26°C	Power supply	V/PH/Hz kW	R410A 380-415/3/50	R410A 380-415/3/50	R410A 380-415/3/50	R410A 380-415/3/50
	Heating capacity	BTU/h	14.0	21.0	25.0	31.0
		kW	47.768	71.652	85.300	105.772
	Power input	kW	2.7	4.0	4.8	5.8
	COP	W/W	5.3	5.3	5.3	5.3
YL-H02-Heating: A15/W26°C	Heating capacity	kW	11.9	17.9	21.3	26.4
		BTU/h	40.603	60.904	72.505	89.906
	Power input	kW	2.7	4.0	4.8	6.1
		W/W	4.3	4.5	4.4	4.3
	COP	W/W	4.3	4.5	4.4	4.3
YL-H03-Cooling: A35/W26°C	Cooling capacity	kW	10.1	15.1	18.0	22.3
		BTU/h	34.393	51.589	61.416	76.156
	Power input	kW	3.3	5.2	5.6	7.1
	EER	W/W	3.1	2.9	3.2	3.1
		kW	8.6	12.9	15.3	19.0
YL-C01-Cooling: A46/W30°C	Cooling capacity	BTU/h	29.234	35.498	43.851	52.204
		kW	3.6	4.5	5.8	6.2
	Power input	kW	2.4	2.3	2.2	2.5
	EER	W/W	2.4	2.3	2.2	2.5
	Power input	kW	4.3	5.4	6.5	7.5
MAX.	Current	A	8	10	13	16
	Water outlet temp.range	°C	15~40	15~40	15~40	15~40
OPERATING	Ambient temp.range	°C	10~30	10~30	10~30	10~30
	Compressor type		Scroll	Scroll	Scroll	Scroll
KEY	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
	Water flow (min.)	m³/h	2.3	2.7	3.4	4.0
	Water flow (max.)	m³/h	7.0	8.5	10.5	12.5
	Water pressure drop(max)	KPa	7	8	10	12
HEAT EXCHANGER	Water pipe		—	—	—	PPR or PVC
	Water connection	Inch	BSP threaded / 1-1/2"	BSP threaded / 1-1/2"	BSP threaded / 1-1/2"	BSP threaded / 1-1/2"
	Position		horizontal	horizontal	horizontal	horizontal
	Air flow	m³/h	3000	3000	3500	5500
	Net	mm	1100×440×673	1100×440×673	1100×440×873	1100×440×1378
DIMENSIONS (L x W x H)	Shipping	mm	1157×497×823	1157×497×823	1157×497×1130	1157×497×1528
	Weight	kg	102/109	106/113	107/129	136/151

FRONT DISCHARGE

 Models

		PHFD2-02680-R410A	PHFD2-02710-R410A	PHFD2-02712-R410A	PHFD2-02713-R410A	PHFD2-02714-R410A
Refrigerant		R410A	R410A	R410A	R410A	R410A
YL-H01-Heating: A24/W26°C	Power supply	V/PH/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Heating capacity	kW	36.0	40.0	45.0	55.0
		BTU/h	122,832	136,480	153,540	187,660
	Power input	kW	6.7	7.7	8.7	10.4
	COP	W/W	5.4	5.2	5.2	5.3
YL-H02-Heating: A15/W26°C	Heating capacity	kW	30.2	34.0	38.3	46.8
		BTU/h	103,042	116,008	130,509	159,511
	Power input	kW	6.8	7.4	8.5	10.6
	COP	W/W	4.5	4.6	4.5	4.4
						4.5
YL-H03-Cooling: A35/W26°C	Cooling capacity	kW	25.3	28.8	32.4	39.6
		BTU/h	86,324	98,266	110,549	135,115
	Power input	kW	8.4	9.3	10.7	13.2
	EER	W/W	3.0	3.1	3.0	3.0
						3.2
YL-C01-Cooling: A46/W30°C	Cooling capacity	kW	21.4	24.5	27.5	33.7
		BTU/h	73,017	83,526	93,966	114,848
	Power input	kW	9.2	10.2	11.8	14.6
	EER	W/W	2.3	2.4	2.3	2.3
						2.5
MAX.	Power input	kW	11.5	11.8	13.6	16.8
	Current	A	20	21	24	30
						33
OPERATING	Water outlet temprange	°C	15~40	15~40	15~40	15~40
	Ambient temprange	°C	10~30	10~30	10~30	10~30
KEY	Compressor type		Scroll	Scroll	Scroll	Scroll
	Sound pressure 1/5/10m	dB(A)	61/52/46	63/53/48	63/53/48	66/57/51
	Type		Titanium/PVC	Titanium/PVC	Titanium/PVC	Titanium/PVC
HEAT EXCHANGER	Water flow (min.)	m³/h	5.8	6.4	7.2	8.9
	Water flow (max.)	m³/h	18.0	20.0	22.5	27.5
	Water pressure drop(max)	KPa	17	20	22	25
	Water pipe			PPR or PVC	PPR or PVC	PPR or PVC
	Water connection	Inch	BSP threaded / 1-1/2"	BSP threaded / 2"	BSP threaded / 2"	BSP threaded / 2"
FAN	Position		horizontal	horizontal	horizontal	horizontal
	Air flow	m³/h	7000	10000	10000	13000
						15000
DIMENSIONS (L x W x H)	Net	mm	1100x440x1378	1455x755x1705	1455x755x1705	1655x755x1705
	Shipping	mm	1157x497x1528	1505x805x1855	1505x805x1855	1705x805x1855
WEIGHT	-	kg	170/185	333/368	350/385	445/485

FRONT DISCHARGE



Refrigerant		PHFD2-02715-R410A	PHFD2-02720-R410A	PHFD2-02730-R410A	PHFD2-02740-R410A	PHFD2-02760-R410A
YL-H01-Heating: A24/W26°C	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
	Heating capacity	kW	82.0	105.0	135.0	158.0
		BTU/h	279,784	358,260	460,620	539,096
	Power input	kW	15.7	20.5	26.5	30.7
	COP	W/W	5.2	5.1	5.1	5.2
YL-H02-Heating: A15/W26°C	Heating capacity	kW	69.7	89.3	114.8	134.3
		BTU/h	237,816	304,521	391,527	458,232
	Power input	kW	15.7	20.5	26.8	31.5
	COP	W/W	4.4	4.3	4.3	4.3
		kW	59.0	75.6	97.2	113.8
YL-H03-Cooling: A35/W26°C	Cooling capacity	BTU/h	201,444	257,947	331,646	388,149
		kW	19.0	25.1	33.2	39.9
	Power input	kW	3.1	3.0	2.9	2.9
	EER	W/W	50.2	64.3	82.6	96.7
		BTU/h	171,228	219,255	281,899	329,927
YL-C01-Cooling: A46/W30°C	Power input	kW	21.0	27.7	36.6	44.1
	EER	W/W	2.4	2.3	2.3	2.2
		kW	24.2	33.5	47.5	48.8
	Power input	kW	45	56	85	87
	Current	A	15~40	15~40	15~40	15~40
MAX.	Water outlet temp.range	°C	10~30	10~30	10~30	10~30
	Ambient temp.range	°C	67/58/52	68/59/53	69/60/54	70/61/55
	Compressor type	dB(A)	Scroll	Scroll	Scroll	Scroll
	Noise	m³/h	Titanium/PVC	Titanium/PVC	Titanium/PVC	Titanium/PVC
	Type	m³/h	13.2	16.9	21.7	25.4
HEAT EXCHANGER	Water flow (min.)	m³/h	40.9	52.4	67.4	78.9
	Water flow (max.)	KPa	27	27	28	30
	Water pressure drop(max)	mm	PPR or PVC	PPR or PVC	PPR or PVC	PPR or PVC
	Water pipe	mm	BSP threaded / 2"	flange/ 4"	flange/ 4"	flange/ 4"
	Water connection	Position	horizontal	horizontal	horizontal	horizontal
FAN	Air flow	m³/h	18000	22000	28000	33000
	Net	mm	2188×1000×1705	2188×1000×1705	2500×1320×2340	2500×1320×2340
	Shipping	mm	2238×1085×1855	2238×1085×1855	2585×1405×2530	2585×1405×2530
	-	kg	480/515	536/576	727/781	775/829
	WEIGHT					1200/1230



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