



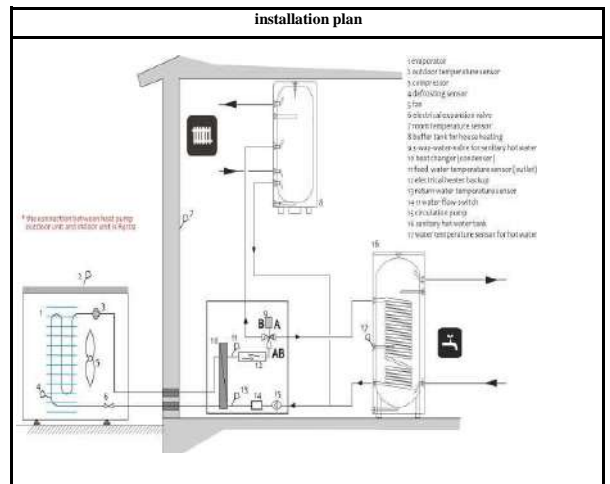
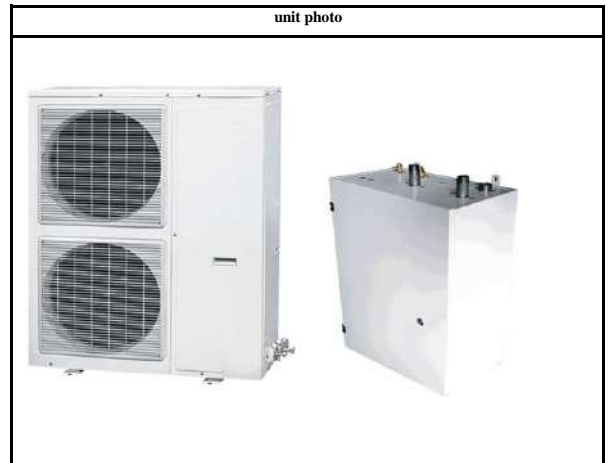
Heat pump air/water On/Off split HP series

Model		KP50	KP70	KP90	KP120	KP160	KP200	KP250	KP300	KP350	KP400	
Power Supply	V/Hz/Ph	220/50/1					380/50/3					
Ambient Temp.	°C	-20~43										
heating (water outlet 35°C, return 30°C, outside air temperature 7°C)												
Nominal Heating Capacity	kW	4,8	7,1	9,0	11,8	15,6	20,1	24,3	30,8	35,3	41,8	
Nominal Input Power	kW	1,3	1,9	2,4	3,1	4,1	5,3	6,4	8,1	9,3	11,0	
COP		3,8	3,8	3,8	3,8	3,8	3,8	3,8	3,8	3,8	3,8	
heating (water outlet 50°C, return 45°C, outside air temperature 7°C)												
Nominal Heating Capacity	kW	4,1	6,2	7,6	10,5	14,6	18,1	22,7	28,6	32,9	38,1	
Nominal Input Power	kW	1,5	2,3	2,8	3,9	5,4	6,7	8,4	10,6	12,2	14,1	
COP		2,7	2,7	2,7	2,7	2,7	2,7	2,7	2,7	2,7	2,7	
heating (water outlet 45°C, return 40°C, outside air temperature -7°C)												
Nominal Heating Capacity	kW	2,7	4,0	4,9	7,0	9,4	12,3	14,6	18,9	21,4	25,2	
Nominal Input Power	kW	1,4	2,0	2,5	3,5	4,7	6,1	7,3	9,5	10,7	12,6	
COP		2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	
heating (water outlet 45°C, return 40°C, outside air temperature -15°C)												
Nominal Heating Capacity	kW	2,0	2,9	3,5	5,1	6,8	8,9	10,5	13,5	15,0	18,0	
Nominal Input Power	kW	1,3	1,9	2,3	3,4	4,5	5,9	7,0	9,0	10,0	12,0	
COP		1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	
refrigerant system												
Refrigerant		R410a										
Compressor	Type	rotary					scroll					
	Quantity	1										
refrigerant-water heat exchanger		shell tube heat exchanger										
evaporator		inner groove copper tube + blue color hydrophilic fin aluminum										
refrigerant control		electronic expansion valve										
ventilation for evaporator												
fan quantity		1					2					
air flow direction		side discharge										
Noise Level	dB(A)	≤52	≤52	≤54	≤56	≤60	≤63	≤65	≤75	≤75	≤75	
water system												
Connection Pipe	inch	G 1"			G1-1/4"			G1-1/2"			G2"	
Nominal Water Flow	l/s	0,23	0,34	0,43	0,56	0,74	0,96	1,16	1,47	1,69	2,00	
installation												
indoor unit size	mm											
indoor unit net weight	kg											
outdoor unit size	mm											
outdoor unit net weight	kg											

1. Safety equipment:

- 1) water flow switch protection
- 2) high / low refrigerant pressure protection
- 3) compressor discharge temperature protection (over-heat)
2. with defrosting function: by 4-way-valve
3. with big evaporator for low ambient temperature -20°C
4. do not include 3-way-water-valve inside. G1-1/4" ; G1-1/2"
5. do not include water pump. class A water pump for 5kW-9kW, class A water pump for 14kW-20kW, 0 class A water pump for 25kW-45kW
6. electrical heater back

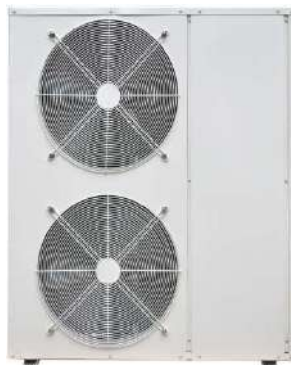
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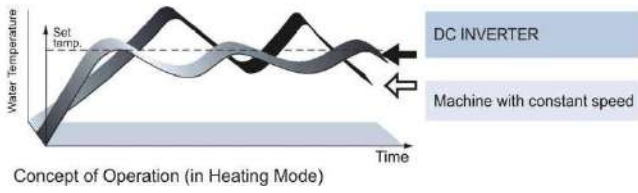
Heat pump air-water inverter monobloc series HP

		KP50	KP70	KP90	KP120	KP160	KP250	KP350	KP450		
power supply	V/Hz/Ph	220/50/1				380/50/3					
operation function		heating & cooling & hot water									
max. Amp	A										
ambient temperature range	°c	-25 ~ 45									
casing material for outdoor unit		Galvanized sheet + painting									
electrical heater	kW	2 (for 220V-50Hz-1phase)				1+1+1 (for 380V-50Hz-3phase)					
compressor heater, evaporator bottom heater	W	built-in, each heater is 40W									
water connection	water inlet & outlet	inch			G1"			G1-1/4"		G1-1/2"	G2"
	max. operating pressure	bar									
drainage		without									
water pump	brand	GreenPro							not install		
	type	rated-A									
	model	RS25/6E			RS25/8E		RS25/10E				
	water flow volume	l/s		0,35	0,48	0,7	0,85	1,67	2,05		
water side heat exchanger		shell tube type									
water-flow-switch		built-in									
water pressure gage		built-in									
refrigerant		R32 / R410a									
heating at (ambient 7°C, water outlet 35°C)	heating capacity	kW	5	7	10	15	17	27	35	43	
	COP	kW/kW	4,2	4,2	4,2	4,2	4,2	4,2	4,2	4,2	
	input	kW	1,2	1,7	2,4	3,6	4,0	6,4	8,3	10,2	
	max water temperature	°c	55								
cooling at (ambient 35°C, water outlet 7°C)	capacity	kW	3,5	5	7	10	14	20	28	35	
	EER	kW/kW	2,8	2,8	2,8	2,8	2,8	2,8	2,8	2,8	
	input	kW	1,3	1,8	2,5	3,6	5,0	7,1	10,0	12,5	
	min water temperature	°c	7								
noise level [1m]	dB(A)	62		67	67	67	70	72	75		
throttle type		electronic expansion valve									
compressor	model	DC inverter									
	type	twin rotary									
	brand	GMCC									
fan motor	type	AC motor									
	quantity	piece				1					2
outdoor coil	number of rows	2									
	tube pitch x row pitch	25 x 22									
	tube outside dia. & type	9.52mm & inner groove copper tube									
	fin distance	mm									
	fin type	hydrophilic aluminum, blue color									
	coil length x height										
number of circuits											
unit	dimension (LxDxH)										

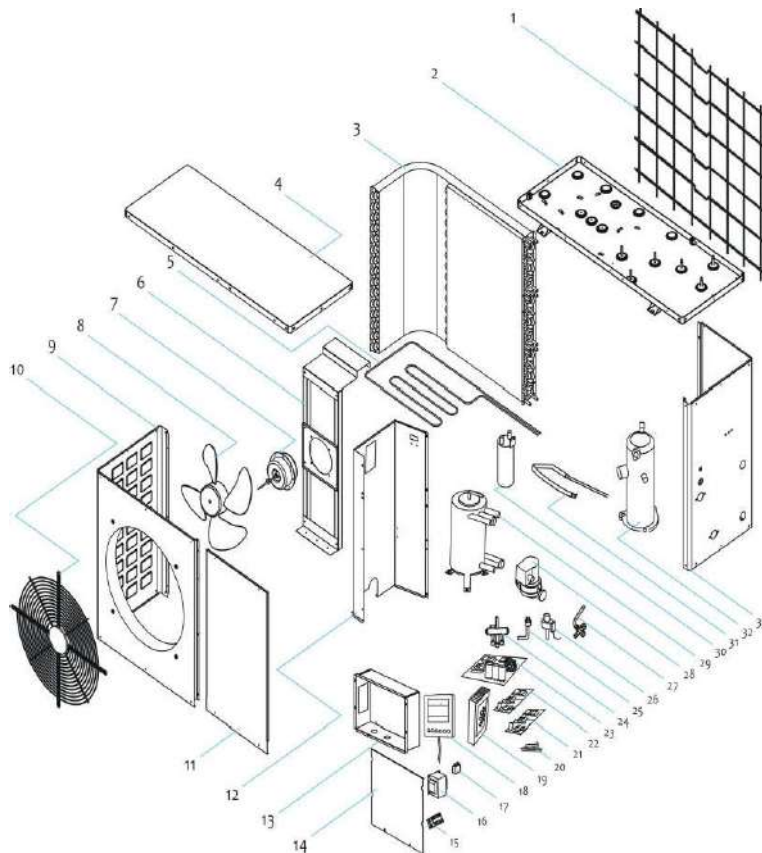
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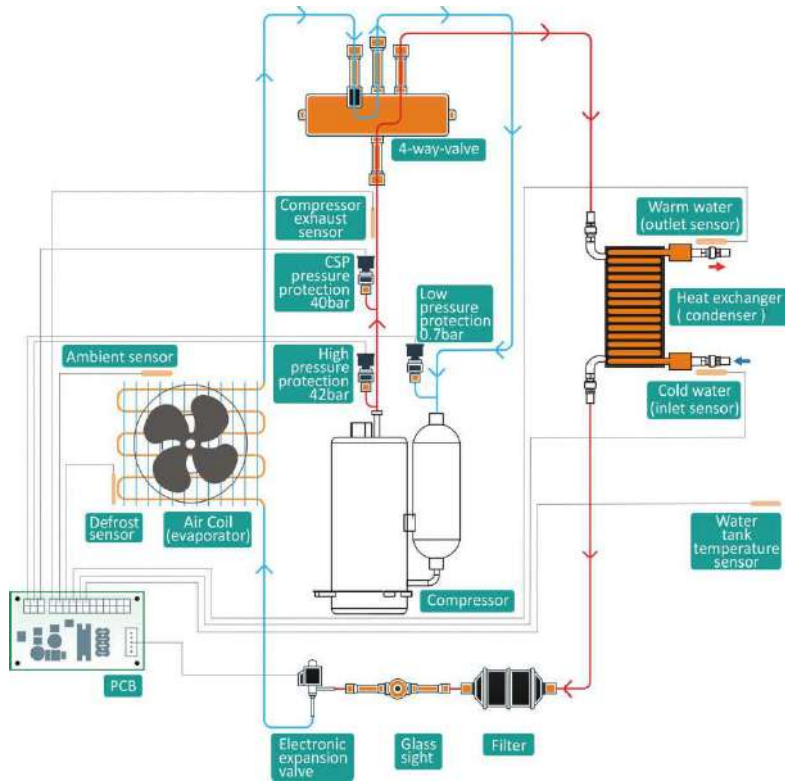
DC inverter compressor



explored view



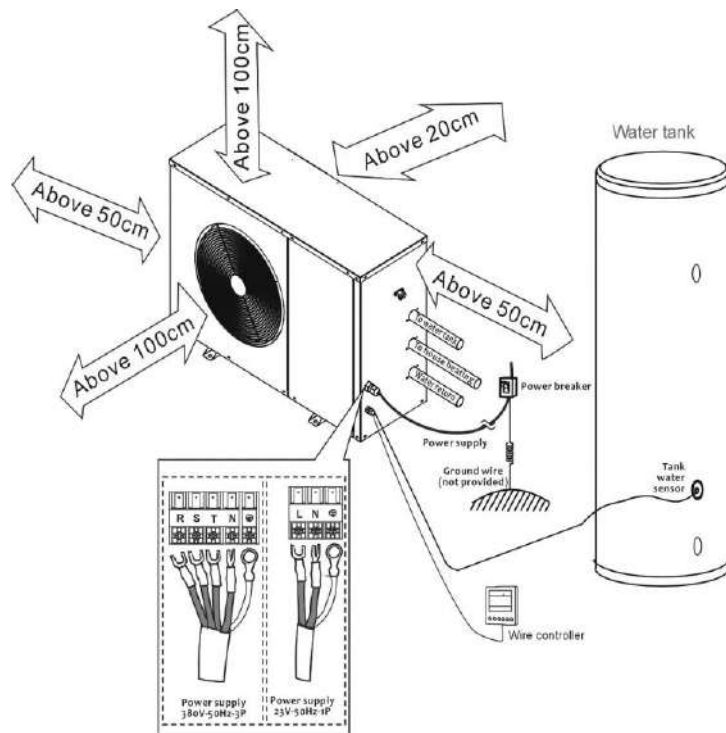
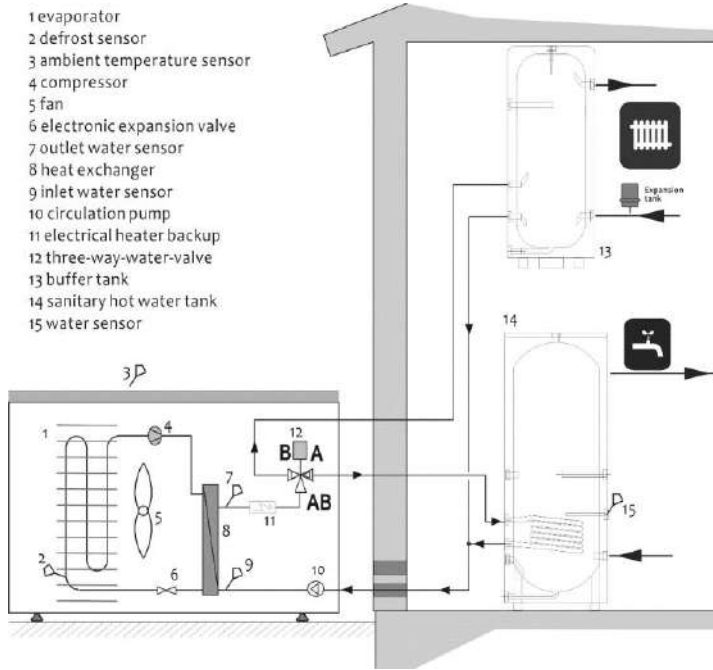
refrigerant system



				
compressor	Shell tube heat exchanger	evaporator	Pressure switch	Electronic expansion valve
				
4-way-valve	Pressure meter	Fan blade	Motor	Electrical heater and holder
				
3-way-water-valve	Rated-A Circulation pump	Water flow switch		

installation drawing

- 1 evaporator
- 2 defrost sensor
- 3 ambient temperature sensor
- 4 compressor
- 5 fan
- 6 electronic expansion valve
- 7 outlet water sensor
- 8 heat exchanger
- 9 inlet water sensor
- 10 circulation pump
- 11 electrical heater backup
- 12 three-way-water-valve
- 13 buffer tank
- 14 sanitary hot water tank
- 15 water sensor

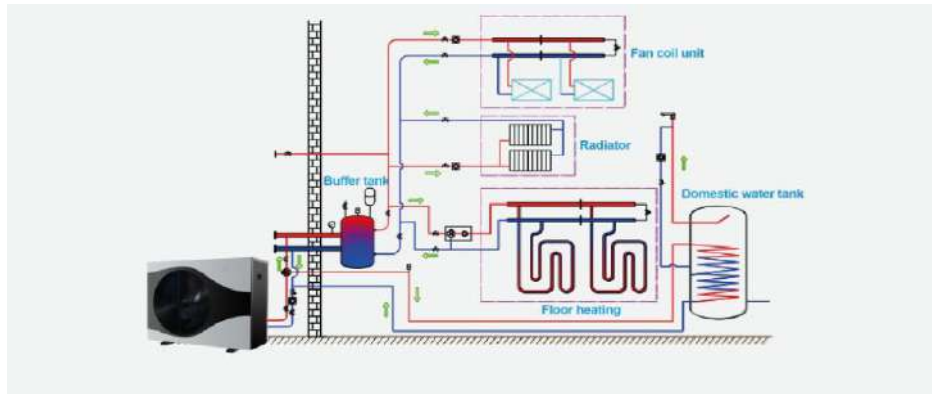


Heat pump air-water inverter EVI monobloc series BLN-TB



Model :			BLN-010TB1	BLN-014TB1	BLN-014TB3	BLN-018TB1	BLN-018TB3	BLN-024TB3
Power Supply		V/Ph/Hz	220-240/1/50	220-240/1/50	380-415/3/50	220-240/1/50	380-415/3/50	380-415/3/50
Nominal Heating (Max) (A7/6°C, W30/35°C)	Heating Capacity	kW	10.58 (4.20-12.20)	14.45 (5.30-16.50)	14.45 (5.30-16.60)	18.77 (6.20-20.50)	18.77 (6.20-20.50)	24.33 (6.50-26.10)
	Power Input	kW	2,29	3,06	3,06	3,99	3,99	5,10
	COP	W/W	4,62	4,72	4,72	4,70	4,70	4,77
Nominal Heating (Max) (A7/6°C, W47/55°C)	Heating Capacity	kW	9,47	13,89	13,89	16,90	16,90	24,29
	Power Input	kW	3,09	4,47	4,47	5,47	5,47	7,93
	COP	W/W	3,06	3,11	3,11	3,09	3,09	3,06
Nominal Cooling (Max) (A35/24°C, W12/7°C)	Cooling Capacity	kW	8,34	13,24	13,24	15,88	15,88	20,89
	Power Input	kW	2,66	4,12	4,12	4,99	4,99	6,70
	EER	W/W	3,14	3,21	3,21	3,18	3,18	3,12
ERP Level (Outlet water temp. at 35°C)	/	A+++	A+++	A+++	A+++	A+++	A+++	A+++
ERP Level (Outlet water temp. at 55°C)	/	A++	A++	A++	A++	A++	A++	A++
Rated input power	kW	3,83	5,97	5,97	7,24	7,24	9,38	
Rated input current	A	17,00	26,50	10,50	35,50	13,20	17,30	
Refrigerant	/	R32	R32	R32	R32	R32	R32	
Rated water flow	m3/h	1,75	2,50	2,50	3,20	3,20	4,20	
Fan quantity	/	1	1	1	2	2	2,00	
Fan motor type	/	DC inverter						
Compressor	/	Panasonic / DC inverter / Rotary / EVI						
Circulating pump	/	Inverter type / Built-in						
IP Class	/	IPX4						
Sound pressure at 1m distance	dB(A)	51	52	52	54	54	55,00	
Max outlet water temperature	°C	60	60	60	60	60	60,00	
Water piping connections	/	DN 25 (1")	DN 32 (1-1/4")	DN 32 (1-1/4")	DN 40 (1.5")	DN 40 (1.5")	DN 40 (1.5")	
Pressure drop at rating water flow	kPa	27	30	30	32	32	32,00	
Operating temperature range (Heating mode)	°C	-30~45						
Operating temperature range (Cooling mode)	°C	16~45						
Unpacked Dimensions (L×D×H)	mm	1100×445×850	1100×445×850	1100×445×850	1050×420×1250	1050×420×1250	1050×420×1250	
Packed Dimensions (L×D×H)	mm	1150×580×1000	1150×580×1000	1150×580×1000	1100×480×1400	1100×480×1400	1100×480×1400	
UnPacked Weight	kg	107	125	125	155	155	174	
Packed Weight	kg	119	140	140	175	175	194	

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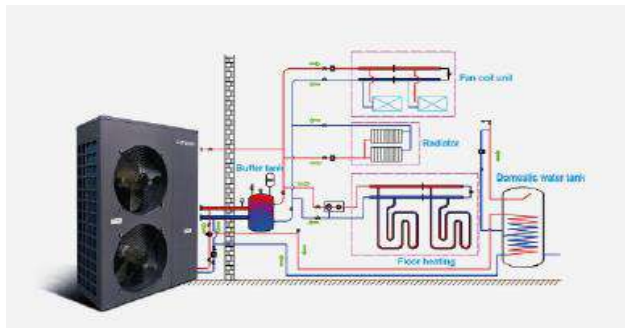


Heat pump air-water inverter EVI monobloc series BLN-TA

Model :		BLN-009TA1	BLN-012TA1	BLN-015TA1	BLN-018TA1	BLN-012TA3	BLN-015TA3	BLN-018TA3	BLN-026TA3	BLN-032TA3		
Power Supply	V/Ph/Hz	220~240/1/50					380~415/3/50					
Performance Condition: Outdoor air 7°C/6°C, Inlet/Outlet water 30°C/35°C												
Heating	Capacity	kw	3.4~10.2	4.6~12.8	5.2~16.8	6.8~20.5	4.6~12.8	5.2~16.8	6.8~20.5	11.8~28.6	14.5~36.3	
	Rated input	kw	0.7~3.2	0.8~3.9	1.0~5.1	1.5~5.9	0.8~3.9	1.0~5.1	1.5~5.9	2.9~6.2	3.8~7.6	
	SCOP		4.29	4.31	4.26	4.21	4.31	4.26	4.21	4.36	4.20	
Performance Condition: Outdoor air 7°C/6°C, Inlet/Outlet water 50°C/55°C												
Heating	Capacity	kw	3.6~10.3	4.7~12.9	5.3~16.8	6.9~20.8	4.7~12.9	5.3~16.8	6.9~20.8	11.8~28.8	14.7~36.6	
	Rated input	kw	0.9~4.3	1.4~5.1	1.3~6.7	2.0~7.7	1.4~5.1	1.3~6.7	2.0~7.7	3.8~8.1	4.9~9.9	
	SCOP		3.36	3.30	3.32	3.65	3.30	3.32	3.65	3.69	3.52	
Performance Condition: Outdoor air 35°C/24°C, Inlet/Outlet water 12°C/7°C												
Cooling	Capacity	kw	2.1~8.2	2.6~9.1	3.6~11.5	4.2~16.8	2.6~9.1	3.6~11.5	4.2~16.8	5.2~19.5	6.2~24.5	
	Rated input	kw	1.4~5.2	1.9~6.1	2.0~7.8	2.8~8.9	1.9~6.1	2.0~7.8	2.8~8.9	4.8~9.3	5.1~11.4	
	EER		2.82	2.77	2.86	2.98	2.77	2.86	2.98	2.83	2.96	
Energy class (SCOP)	Outlet water temp. at 35°C							A++				
	Outlet water temp. at 55°C							A++				
Refrigerant	Type							R32				
	Charged volume	Kg	1.7	1.8	3.5	3.6	1.8	3.5	3.6	5.5	7.5	
Noise level	Heating	dB(A)	45	45	48	48	45	48	48	50	50	
	Cooling	dB(A)	46	46	49	49	46	49	49	51	51	
Water flow volume	m ³ /h	1.2	1.5	2.5	2.5	1.5	2.5	2.5	3.5	5.0		
Water piping connections		mm	DN 25 Male			DN 32 Male	DN 25 Male	DN 25 Male	DN 32 Male	DN 32 Male	DN 40 Male	
	Cooling	°C						5~48				
Operating temperature range	Heating	°C						~30~48				
	DHW	°C						~30~48				
Net dimensions (WxDxH)	mm	1005x375x800		1025x380x1320	1077x377x1460	1005x375x800	1025x380x1320	1077x377x1460	1127x427x1560			
Packed dimensions (WxDxH)	mm	1080x455x960		1076x440x1460	1150x450x1620	1080x455x960	1076x440x1460	1150x450x1620	1150x500x1720			
Net/Gross weight	kg	70/80	75/85	125/140	162/178	75/85	125/140	162/178	160/178	200/218		

- Features:**
 Energy class: A++
 Heating + Cooling + DHW
 Full DC inverter compressor and fan motor
 -30°C inverter EVI
 WIFI smart control
 R32 refrigerant, environmental friendly
 Outlet water temperature up to 60°C

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Air-to-water heat pump inverter EVI split series HP

			KP70ei	KP90ei	KP120ei	KP160ei	KP250ei	KP350ei	KP450ei	
power supply	V/Hz/Ph		230/50/1				380/50/3			
operation function	heating & cooling & sanitary hot water									
function	space heating	'c	15 ~ 50							
	space cooling	'c	7 ~ 22							
	sanitary hot water	'c	35 ~ 50							
max. Amp [compressor+heater]	A		10 + 9	16 + 9	20 + 9	26 + 9	16 + 5	16 + 5	16 + 5	
noise level [1m]	dB(A)		40							
unit size for small	dimension (LxDxH)	mm	510x280x710				600x730x1100			
unit size for big	dimension (LxDxH)	mm	600x730x1800							
installation for small			wall-mounted			floor	floor	floor		
installation for big			floor-standing							
electrical heater	power input	kW	2				1+1+1			
	power supply	V/Hz/Ph	230/50/1				380/50/3			
	step		1							
	protection thermostat	'c	80							
sanitary hot water tank	material for inner tank		duplex steel 2205							
	tank volume	liter	170							
	SS304 coil to heat		built-in							
water connection	water inlet	inch	G1" [male]	G1-1/4" [male thread]				G1-1/2" [male]	G2" [male]	
	outlet to sanitary hot water	inch								
	outlet to heating	inch								
	max. operating pressure	bar	3							
	direction for small indoor unit		downwards							
direction for big indoor unit		upwards								
drainage		without								
water pump	brand		www.greenrpo.cn							
	model		RS20/6E	RS25/8 EAB			RS25/10E			
water flow switch	rated water flow volume	l/s	0,35	0,48	0,57	0,81	1,11	1,39	1,71	
	min. water flow volume	l/s	0,35							
3-way-water-valve	size	inch	G1"	G1-1/4" [male thread]				G1-1/2"	G2"	
	brand		www.cnhengsen.com							
	type		ball valve							
refrigerant pipe	gas pipe - liquid pipe	inch	G1/2"-G1/4"	G5/8"-G3/8"	G3/4"-G1/2"		G7/8" - G1/2"			
0										
DC inverter outdoor unit			KP50	KP90	KP120	KP160	KP250	KP250	KP250	
power supply	V/Hz/Ph		230/50/1				380/50/3			
refrigerant	R410a / R32									
energy efficiency label class	A++									
heating (at A7W35)	capacity	kW	7	10	12	17	28	35	43	
	COP	kW/kW	4,1	4,2	4,2	4,5	4,2	4,2	4,2	
	input	kW	1,7	2,4	2,9	3,8	6,7	8,3	10,2	
	water temperature	'c	15 ~ 55							
	ambient temp. range	'c	-25 ~ 43							
cooling (at A35W7)	capacity	kW	5,0	7	8	12	20	25	32	
	EER	kW/kW	2,8	2,8	2,8	3	2,8	2,8	2,8	
	input	kW	1,6	2,5	2,9	4,0	7,1	8,9	11,4	
	water temperature	'c	7 ~ 22							
	ambient temp. range	'c	15 ~ 43							
noise level [1m]	dB(A)		62	62	62	67	70	72	75	
throttle type	electronic expansion valve									
compressor	model		DC inverter twin rotary							
	thermal protector		built-in							
fan	type		axial							
	quantity	piece	1			2				
fan motor	brand		kaibang / Junfeng							
	type		AC motor							
	quantity	piece	1			2				
electronic expansion valve	1	www.sanhuaeurope.com								
water heat exchanger	type		shell tube type							
	brand		www.qimleo.com							
outdoor coil	number of rows		2							
	tube pitch x row pitch	mm	25 x 22							
	tube outside dia. & type	mm	9.52mm inner groove copper tube							
	fin distance	mm	2,0							
	fin type		hydrophilic aluminum, blue color							
coil length x height										
protection for winter	compressor heater 40W, evaporator bottom heater 40W									
unit	dimension (LxDxH)	mm								
refrigerant pipe	gas pipe - liquid pipe	inch	G1/2" - G3/8"	G5/8" - G3/8"	G3/4" - G1/2"		G7/8" - G1/2"			

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unit photo



Wall-mounted small indoor unit



outdoor unit



indoor unit with 180L tank

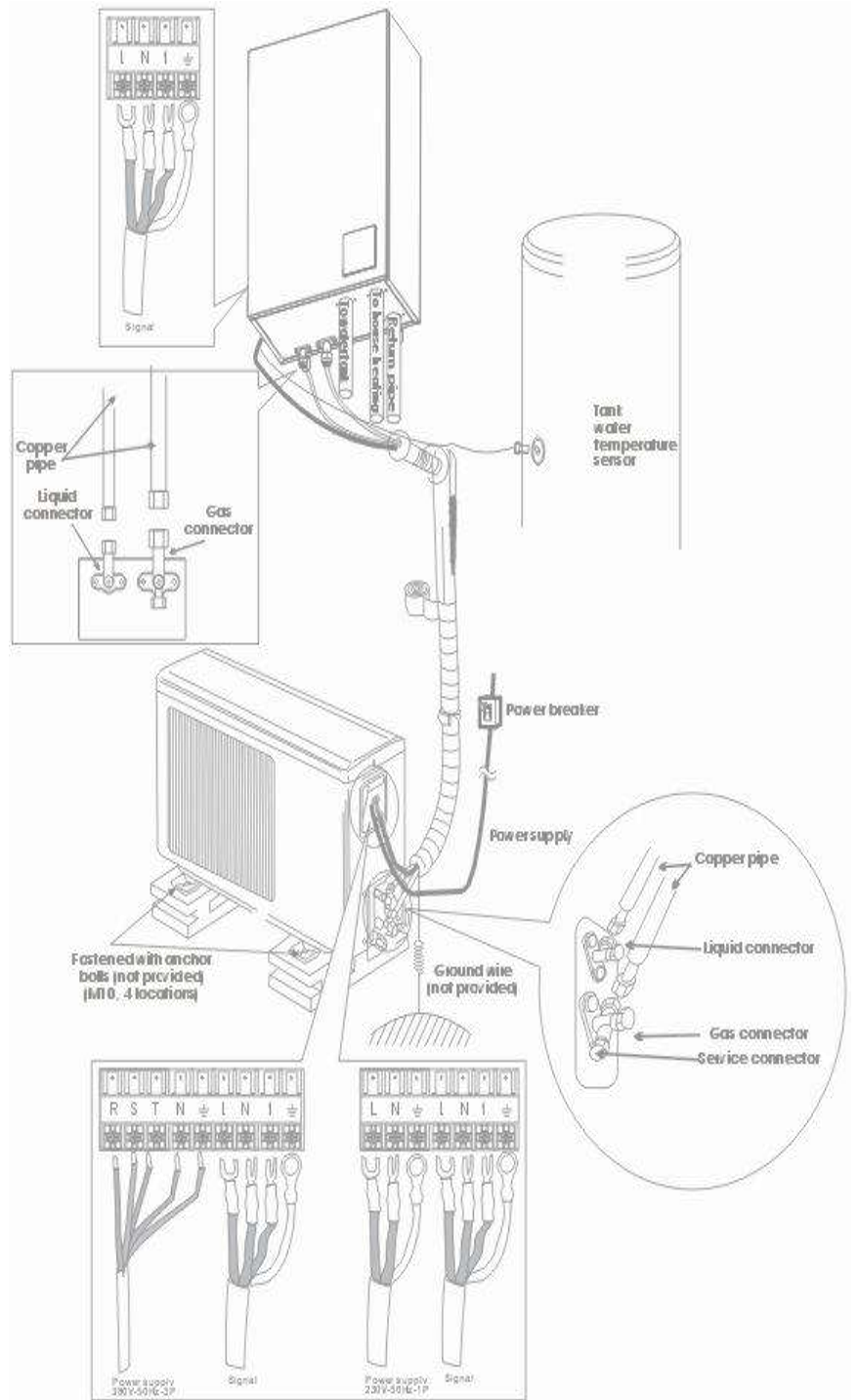


indoor unit without tank

parts list

 compressor	 Shell tube heat exchanger	 evaporator	 4-way-valve	 Pressure switch
 Electronic expansion valve	 Water flow switch	 Water pump	 Evaporator bottom heater	 Compressor heater
 Electrical heater and holder	 3-way-water-valve	 Fan blade	 Motor	

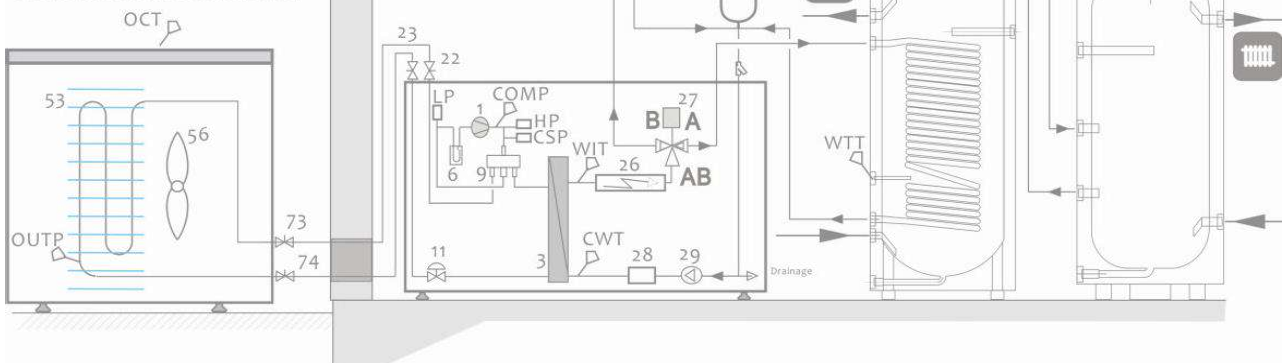
installation for small indoor unit

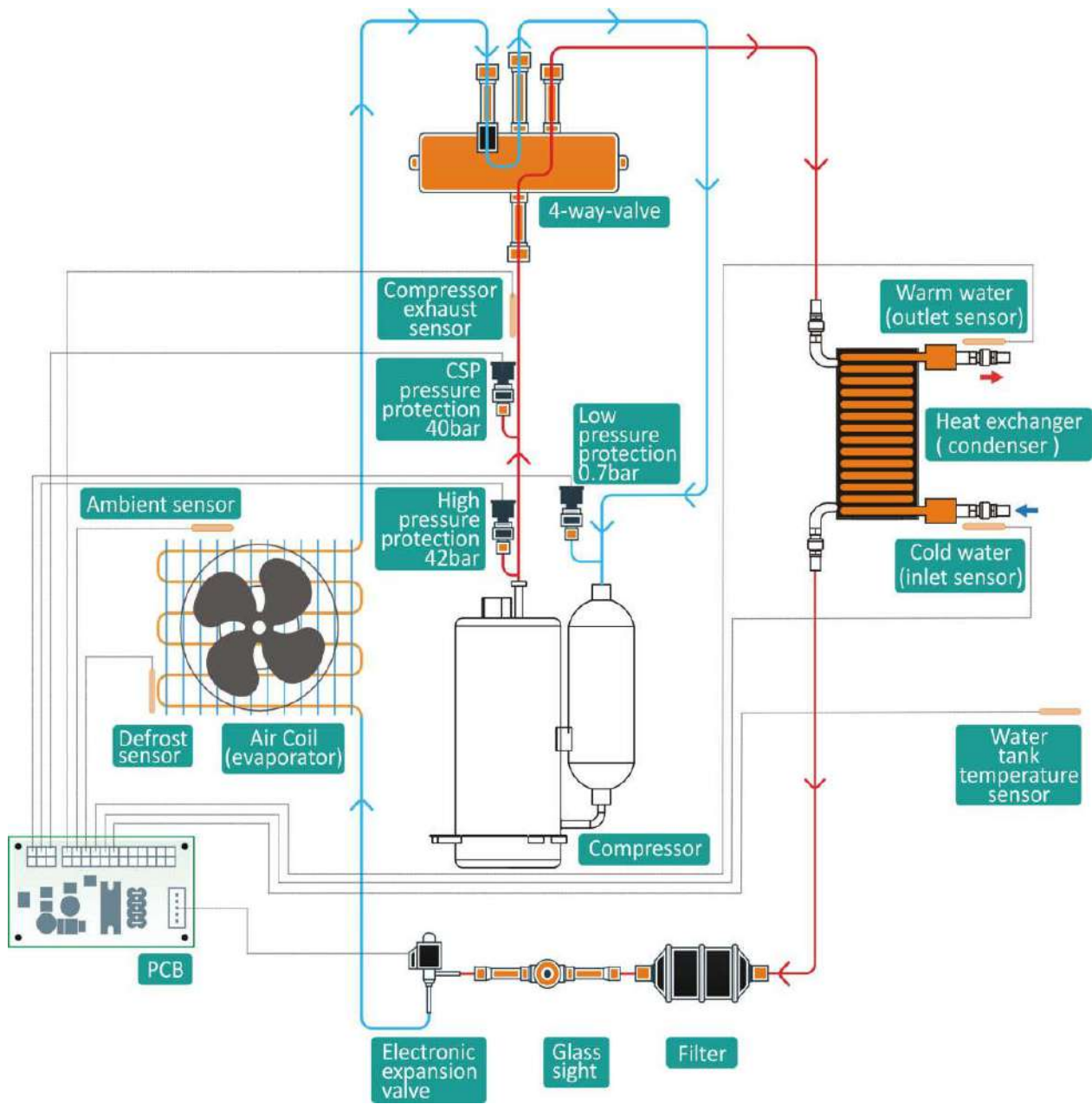


OCT: outside air temperature sensor
 OUTP: evaporator sensor
 COMP: compressor exhaust sensor
 CWT: return water sensor
 WIT: FEED water sensor



LP: low pressure protection
 HP: high pressure protection
 CSP: CSP protection


* the connection between heat pump outdoor unit and indoor unit is R410a





Air-to-water heat pump inverter EVI split series BLN-TA

Photos					
Model			BLN-012TA1S	BLN-018TA1S	BLN-018TA3S
Power supply		V/Ph/Hz	220-240/1/50		380-415/3/50
Performance Condition: Outdoor air 7°C / 6°C, Inlet / Outlet water 30°C / 35°C					
Heating	Capacity (min-max)	kW	4.3 ~ 12.3	6.7 ~ 20.5	6.7 ~ 20.5
	Rated input(min-max)	kW	0.7 ~ 3.8	1.5 ~ 5.9	1.5 ~ 5.9
	SCOP		4,31	4,21	4,21
Performance Condition: Outdoor air 7°C / 6°C, Inlet / Outlet water 50°C / 55°C					
Heating	Capacity	kW	4.5 ~ 12.5	6.8 ~ 20.6	6.8 ~ 20.6
	Rated input	kW	1.4 ~ 5.1	2.0 ~ 7.7	2.0 ~ 7.7
	SCOP		3,30	3,65	3,65
Performance Condition: Outdoor air 35°C / 24°C, Inlet / Outlet water 12°C / 7°C					
Cooling	Capacity	kW	2.5 ~ 9.1	4.2 ~ 16.5	4.2 ~ 16.5
	Rated input	kW	1.9 ~ 6.1	2.8 ~ 8.9	2.8 ~ 8.9
	EER		2,71	2,78	2,78
Energy class (SCOP)	Outlet water temp. at 35°C		A++		
	Outlet water temp. at 55°C		A++		
Refrigerant	Type		R410A		
	Charged volume	kg	2,3	4,3	4,3
Noise level	Heating	dB(A)	45	48	48
	Cooling	dB(A)	46	49	49
Operating temperature range	Cooling	°C	-5 ~ 48		
	Heating	°C	-30 ~ 48		
	DHW	°C	-30 ~ 48		
Net dimensions (W*D*H)		mm	1005*375*800	1077*377*1460	1077*377*1460
Packed dimensions (W*D*H)		mm	1080*455*960	1150*450*1620	1150*450*1620
Net/Gross weight		kg	66/76	125/138	125/138

Hydronic Box			
Model			BLN-012/018TA
Power supply		V/Ph/Hz	220-240/1/50
Function			Heating and cooling
Outlet water temperature range	Space heating	°C	25 to 55
	Space cooling	°C	7 to 25
	DHW	°C	40 to 55
Sound power level		dB(A)	42
Dimension (WxHxD)		mm	465*245*750
Packing (WxHxD)		mm	515*320*880
Net/gross weight		kg	49/54
Water circuit	Piping connections	mm	1-1/4" male
	Total water volume	L	2,5
	Drainage pipe	mm	9,0
	Expansion tank	L	5
	0	MPa	0,8
	Pressure relief valve	MPa	0,6
Refrigerant circuit	Water pump head	m	6
	Liquid side	mm	φ9.52
Electric heater	Size	kW	3,0
	Location		Available in the buffer tank

The manufacturer reserves the right to change the specifications without prior notice.



YC series inverter monoblock pool heat pump



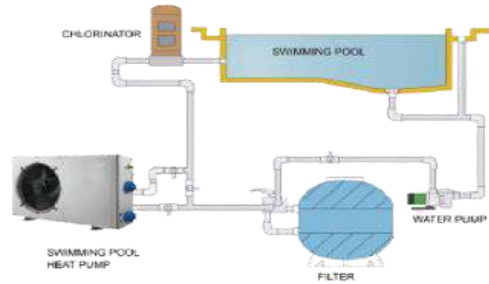
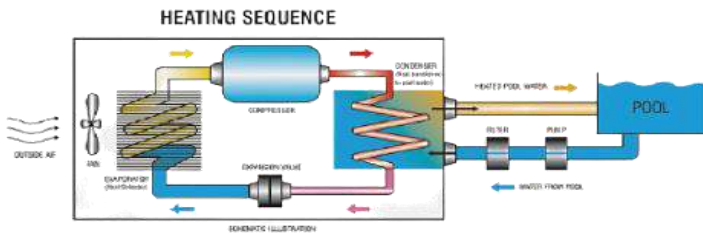
MODBUS

Model :	YC-005TA1	YC-006TA1	YC-008TA1	YC-012TA1	YC-016TA1	YC-030TA1
Power Supply	220-240V/1/50Hz					380-415V/3/50Hz
Heating Capacity at Air 27°C/24°C, Water 27°C in, 29°C out						
Heating Capacity (kW)	5.0	7.2	9.5	13.0	16.1	30.0
Power Input (kW)	0.86	1.24	1.62	2.25	2.75	4.95
COP	5.84	5.81	5.88	5.79	5.85	6.06
Heating Capacity at Air 15°C/12°C, Water 26°C in, 28°C out						
Heating Capacity (kW)	3.6	5.5	7.0	10.0	12.5	23.5
Power Input (kW)	0.73	1.12	1.41	2.05	2.54	4.69
COP	4.94	4.92	4.95	4.88	4.93	5.01
Cooling Capacity at Air 35°C/24°C, Water 29°C in, 27°C out						
Heating Capacity (kW)	3.2	5.1	6.5	9.2	11.3	20.0
Power Input (kW)	0.94	1.51	1.90	2.69	3.36	5.78
EER	3.41	3.38	3.43	3.42	3.36	3.46
Max Power Input (kW)	1.16	1.68	2.24	3.24	3.72	6.35
Max Current (A)	5.8	8.5	11.3	16.4	18.8	11.4
Refrigerant	R410A	R410A	R410A	R410A	R410A	R410A
Heat Exchanger	Titanium	Titanium	Titanium	Titanium	Titanium	Titanium
Air Flow Direction	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal
Water Flow volume (m3/h)	2.0	3.0	3.5	5.5	6.0	12.0
Net dimensions (L×W×H)(mm)	936×385×550	936×385×550	1011×420×614	986×420×798	986×420×798	1003×374×1318
Package dimensions (L×W×H)(mm)	1055×460×620	1055×460×620	1110×480×670	1115×490×930	1115×490×930	1090×460×1474
Working temperature range (°C)	- 15 ~ 43	- 15 ~ 43	- 15 ~ 43	- 15 ~ 43	- 15 ~ 43	- 15 ~ 43
Noise (dB(A))	48	48	50	52	52	54
Net Weight (kg)	42	46	58	72	85	135
Gross Weight (kg)	48	52	65	87	100	153
Water connection (mm)	50	50	50	50	50	50

Features:

- R410A refrigerant, environmental friendly
- Titanium heat ex-changer, corrosion resistance
- High pressure protection
- Defrost automatically
- With water flow switch
- MODBUS communication
- Full automatically operation
- The heat pump can heat and cool the swimming pool

The manufacturer reserves the right to change the specifications without prior notice.

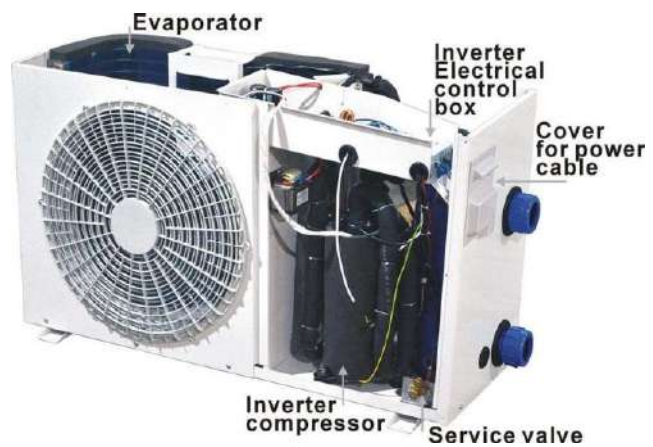


HP series inverter monoblock pool heat pump

Unit Model	Unit	KP-120	KP-200	KP-250	KP-350
Advised pool volume	m ³	<70	<90	<120	<200
performance at water outlet 26°C, ambient DB/WB 24°C/19°C					
Heating Capacity	kW	14,0	20,0	25,0	40,0
Power Input	kW	2,4	3,4	4,3	6,9
performance at water outlet 26°C, ambient 7°C					
Heating Capacity	kW	10,5	13,5	18,0	29,0
Power Input	kW	2,7	3,6	4,7	7,6
Power Supply	V/P/Hz	230V/50		380V/50	
Compressor Style		twin-rotary DC inverter			
Heating Exchanger		Titanium in PVC			
Water Flow Volume	m ³ /h	4,0	5,7	7,2	11,5
Water Connection	mm	48,3			
Fan Quantity		1	2		
Fan Direction		Horizontal			
Noise	dB(A)	50	55	58	60
Net Unit Size (L/W/H)	mm				
Carton Size (L/W/H)	mm				
Net/Gross Weight	kg				

- 1) refrigerant: R32
- 2) with water flow switch
- 3) ambient temperature range: -7°C ~ 30°C
- 4) with defrosting function
- 5) electrical expansion valve (option), can offer high heating capacity and COP
- 6) Galvanized metal cabinet + painting

The manufacturer reserves the right to change the specifications without prior notice.



Pool heat pump inverter split HP series






Unit Model	Unit	KP-120	KP-200	KP-250	KP-350
Advised pool volume	m ³	<70	<90	<120	<200
performance at water outlet 26°C, ambient DB/WB 24°C / 19°C					
Heating Capacity	kW	14,0	20,0	25,0	40,0
Power Input	kW	2,4	3,4	4,3	6,9
performance at water outlet 26°C, ambient 7°C					
Heating Capacity	kW	10,5	13,5	18,0	29,0
Power Input	kW	2,7	3,6	4,7	7,6
Power Supply	V/P/Hz	230/1/50		380V/3/50	
Compressor Style		twin-rotary DC inverter			
Heating Exchanger		Titanium in PVC			
Water Flow Volume	m ³ /h	4,0	5,7	7,2	11,5
Water Connection	mm	48,3			
Fan Quantity		1	2		
Fan Direction		Horizontal			
Noise	dB(A)	50	55	58	60
Net Unit Size (L/W/H)	mm				
Carton Size (L/W/H)	mm				
Net/Gross Weight	kg				

- 1) refrigerant: R32
- 2) with water flow switch
- 3) ambient temperature range: -7°C ~ 30°C
- 4) with defrosting function
- 5) electrical expansion valve (option), can offer high heating capacity and COP
- 6) Galvanized metal cabinet + painting

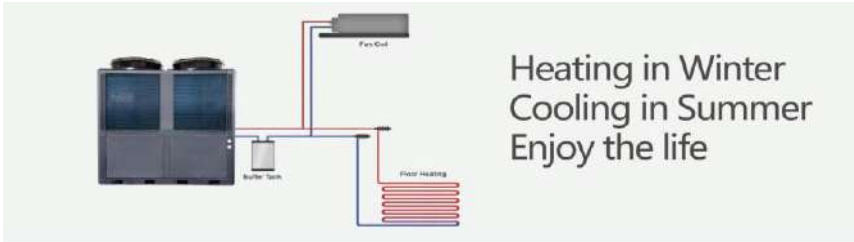
The manufacturer reserves the right to change the specifications without prior notice.



DLN series commercial heat pump for heating and cooling

Photo					
Model No.	DLN-050TA1	DLN-100TA1	DLN-200TA1/F	DLN-200TA1/T	DLN-400TA1
Power Supply	380V~415V/3/50Hz				
Heating Capacity at Air 7°C/6°C, Water 30°C in, 35°C out					
Heating Capacity(KW)	45	90	170	180	330
Power Input(KW)	10,3	20,8	39,7	42,0	94,3
COP	4,36	4,32	4,28	4,25	3,50
Heating Capacity at Air 7°C/6°C, Water 50°C in, 55°C out					
Heating Capacity(KW)	36	67	131	167	312
Power Input(KW)	15,5	25,5	57,9	56,7	98,6
COP	2,32	2,63	2,26	2,95	3,16
Heating Capacity at Air -12°C/-14°C, Water 50°C in, 55°C out					
Heating Capacity (kW)	24	40	92	107	220
Power Input (kW)	15,4	25,0	57,8	54,0	115,0
COP	1,55	1,60	1,59	1,98	1,91
Cooling Capacity at Air 35°C/24°C, Water 12°C in, 7°C out					
Cooling Capacity(KW)	30	60	121	140	270
Power Input(KW)	11,9	22,9	45,7	43,8	81,3
EER	2,53	2,62	2,65	3,19	3,32
Max Power Input(KW)	16,8	36,5	77,8	70,1	145,0
Max Current(A)	31,5	63,3	137,5	132,5	260,0
Compressor quantity	1	2	4	2	4
Expansion Valve	Saginomiya/EEV	Saginomiya/EEV	Saginomiya/EEV	Danfoss/EEV	Danfoss/EEV
Air Flow Direction	Vertical	Vertical	Vertical	Vertical	Vertical
Water Flow Volume(m³/h)	8,0	8,5	17	17	56
Water Pressure Drop	50kPa	50kPa	48kPa	48kPa	50kPa
Dimensions(L*W*H)(mm)	1252*1076*1870	2198*1096*2176	2230*2248*2176	2300*1150*2400	2800*2200*3450
Working temperature range (°C)	-30~45				-30~48
Noise(dB(A))	≤65	≤70	≤76	≤83	≤76
IP class	IP X4	IP X4	IP X4	IP X4	IPX4
Net Weight(kg)	450	800	1600	1330	2200
Water connection	DN 40	DN 50	Flange DN 80	Flange DN 80	Flange DN 80

The manufacturer reserves the right to change the specifications without prior notice.



Vertical wall-mounted fan coil

The HEATU vertical water fan coil is the ideal terminal for home heating and cooling systems. It works with a heat pump. It requires water at lower temperatures than a radiator, so it is possible to get good efficiencies for the heat pump and save significantly on energy bills.

Model		KP-160	KP-320	KP-460	KP-580
heating capacity (1)	W	1500	2000	4600	6300
water flow rate (1)	l/s	0.04	0.05	0.11	0.15
water pressure drop (1)	kPa	7	7	19	25
heating capacity (2)	W	1000	1500	2800	3100
water flow rate (2)	l/s	0.05	0.07	0.14	0.14
water pressure drop (2)	kPa	7	7	19	25
cooling capacity (3)	W	750	1500	2200	3100
water flow rate (3)	l/s	0.04	0.07	0.11	0.15
water pressure drop (3)	kPa	7	9	22	28
air volume (H)	m ³ /h	160	320	460	580
air volume (L)	m ³ /h	50	150	200	300
noise (H)	d(B)A	45	47	48	48
noise (L)	d(B)A	28	29	30	32
power supply	V/Hz/P	230/50/1	230/50/1	230/50/1	230/50/1
power input	W	16	25	34	42
water pipe fitting in/out	mm	15	15	15	15
drain	mm	16	16	16	16
max water operating pressure	bar	10	10	10	10
net dimension (LxWxH)	mm	700x130x525	900x130x525	1100x130x525	1300x130x525
shipping dimension (LxWxH)	mm	740x180x605	940x180x605	1140x180x605	1340x180x605
net weight/gross weight	kg	16/18	22/24	28/31	35/38

working conditioner (1): heating mode: inlet water temperature: 70°C, Δt water 10°C, ambient temperature DB 20°C

working conditioner (2): heating mode: inlet water temperature: 50°C, Δt water 5°C, ambient temperature DB 20°C

working conditioner (2): cooling mode: inlet water temperature: 7°C, Δt water 5°C, ambient temperature DB 27°C/WB 19°C

Vertical fan coil compact structure and thin casing (only 130mm)

Best terminal for heating and cooling system

The use of low noise fan combine with newly wind-guiding technology makes lower noise and you can enjoy a comfortable sleep

Optional:

factory-mounted 2-way water valve

Thermostat for temperature control

The manufacturer reserves the right to change the specifications without prior notice.

