

VARIABLE-SPEED

Swimming Pool Heat Pump

[HP40BEE]

[HP50BEE]

[HP65BEE1]

Technical Parameter

Model	HP40BEE	HP50BEE	HP65BEE1
Voltage	208-230V	208-230V	208-230V
Frequency/phase	60Hz/1Ph	60Hz/1Ph	60Hz/1Ph
Heating current (air80°F,water80°F)	1.4-7.5A	1.6-10.2A	2.5-13.1A
Heating power (air80°F,water80°F)	0.28-1.75kW	0.30-2.3kW	0.56-3kW
Design pressure(High)	≤609 PSIG	≤609 PSIG	≤609 PSIG
Design pressure(Low)	≤261 PSIG	≤261 PSIG	≤261 PSIG
Refrigerant(R410A)	31.7oz	38.8oz	45.9oz
Net weight	48KG	52KG	62KG
Water circulation flow	67-100L/min	83-117L/min	108-142L/min
Noise	≤50 dB(A)	≤50 dB(A)	≤50 dB(A)
Waterproof class	IPX4	IPX4	IPX4

X. Trouble shooting for common faults

Failure	Reason	Solution
Swimming pool heat pump does not run	No power	Wait until the power recovers
	Power switch is off	Switch on the power
	Fuse burned	Check to change the fuse
	The breaker is off	Check to turn on the breaker.
Running but not heating	Air inlet blocked	Remove the obstacles.
	Air outlet blocked	Remove the obstacles.
	3minutes protection	Wait patiently
	Set temp too low	Set proper heating temperature.
If the above solution doesn't work, please contact your dealer. Don't try to repair the heater yourself.		

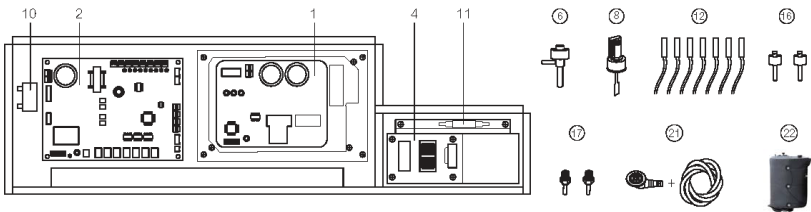
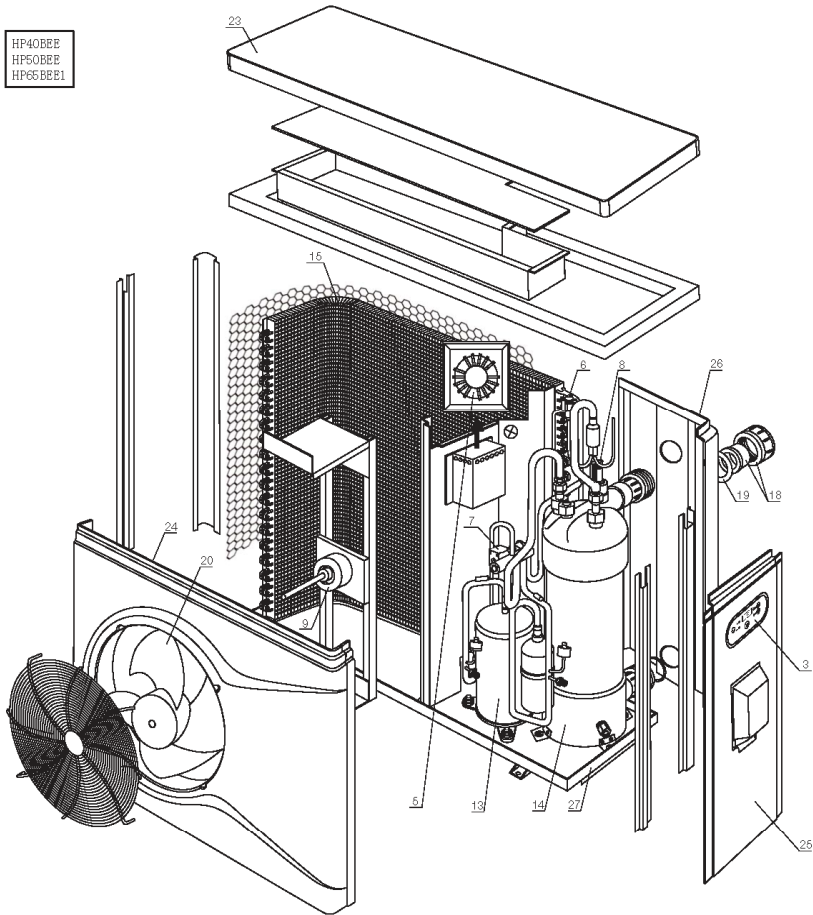
Failure code

NO.	Display	Failure description
1	E1	High gas pressure protection
2	E2	Low gas pressure protection
3	E3	No water flow protection
4	E4	3 phase sequence protection (only for three phase machine)
5	E5	Outdoor power supply abnormality protection
6	E6	In and out of the water temperature difference is so much (Insufficient water flow protection)
7	E7	Protection of low outlet water temperature
8	E8	Protection of high exhaust temperature
9	E9	Protection of compressor over heat (reserved)
10	EA	Protection of outer coil over heat
11	Eb	Ambient temperature too high/low protection
12	Ed	Two-level antifreeze
13	P0	Controller communication failure
14	P1	Water inlet temp sensor failure
15	P2	Water outlet temp sensor failure
16	P3	Gas exhaust temp sensor failure
17	P4	Outer coil temp sensor failure
18	P5	Gas return temp sensor failure
19	P6	Inner coil temp sensor failure
20	P7	Ambient temp sensor failure
21	P8	Radiator temp sensor failure
22	P9	Current sensor failure
23	PA	Auto-restart failure

24	F1	Compressor drive module failure
25	F2	PFC module failure
26	F3	Compressor start failure
27	F4	Compressor running failure
28	F5	Compressor module over current protection
29	F6	Compressor module over heat protection
30	F7	Current protection
31	F8	Radiator over heat protection

Parts Breakdown

HP40EEE
HP50EEE
HP65EEE1



Position	Spare parts	HP40BEE	HP50BEE	HP65BEE1
	A. Electrical Spare Parts			
1	Inverter board	HPXWSEE40CDM	HPXWSEE50CDM	HPXWSEE65CDM1
2	PC board	HPXWSEE50PCB	HPXWSEE50PCB	HPXWSEE50PCB
3	Oval LED	HPXWSEE50IL	HPXWSEE50IL	HPXWSEE50IL
4	Power filter plate	HPXWSEE50FPF	HPXWSEE50FPF	HPXWSEE50FPF
5	Inductor	HPXWSEE40IN	HPXWSEE50IN	HPXWSEE65IN1
6	Electronic expansion valve	HPXWSEE50EV	HPXWSEE50EV	HPXWSEE50EV
7	4-way valve	HPXWSEE50FWV	HPXWSEE50FWV	HPXWSEE65FWV
8	Water flow switch	HPXWSEE50WFW	HPXWSEE50WFW	HPXWSEE50WFW
9	Fan motor	HPXWSEE50FM	HPXWSEE50FM	HPXWSEE50FM
10	Fan motor capacitor	HPXWSEE50FMC	HPXWSEE50FMC	HPXWSEE50FMC
11	Fuse	HPXWSEE40FUS	HPXWSEE50FUS	HPXWSEE65FUS
12	Full set of sensors	HPXWSEE50TMP	HPXWSEE50TMP	HPXWSEE50TMP
	B. Refrigerating Spare Parts			
13	Compressor	HPXWSEE40CCC	HPXWSEE50CCC	HPXWSEE65CCC1
14	Titanium heat exchanger	HPXWSEE40THE	HPXWSEE50THE	HPXWSEE65THE1
15	Evaporator	HPXWSEE40E	HPXWSEE50E	HPXWSEE65E
16	High & low pressure protection switch	HPXWSEE50PPS	HPXWSEE50PPS	HPXWSEE50PPS
17	High&low Pressure valve	HPXWSEE50PV	HPXWSEE50PV	HPXWSEE50PV
	C. Cabinet and Other Spare Parts			
18	Water union	HPXWSEE50WN	HPXWSEE50WN	HPXWSEE50WN
19	Water union gasket	HPXWSEE50WMG	HPXWSEE50WMG	HPXWSEE50WMG
20	Fan	HPXWSEE40F	HPXWSEE50F	HPXWSEE50F
21	Drainage kit	HPXWSEE50DTJ	HPXWSEE50DTJ	HPXWSEE50DTJ
22	Compressor insulation cap	HPXWSEE50ICC	HPXWSEE50ICC	HPXWSEE65ICC
23	Top cover	HPXWSEE50CAB	HPXWSEE50CAB	HPXWSEE65CAB
24	Front panel	HPXWSEE50CAB	HPXWSEE50CAB	HPXWSEE65CAB
25	Right panel	HPXWSEE50CAB	HPXWSEE50CAB	HPXWSEE65CAB
26	Back panel	HPXWSEE40CAB	HPXWSEE50CAB	HPXWSEE65CAB
27	Bottom board	HPXWSEE50BB	HPXWSEE50BB	HPXWSEE50BB