



SWIMMING POOL HEAT PUMP UNIT

Installation & Instruction Manual

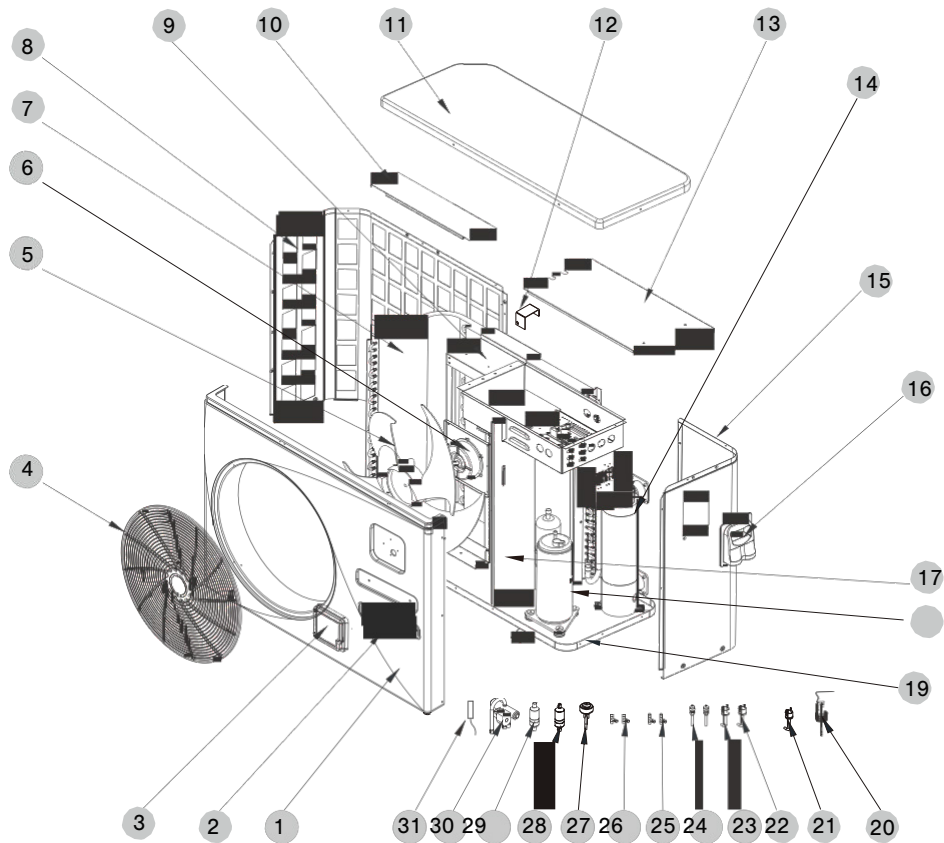
Models HP50AEE
 HP70AEE



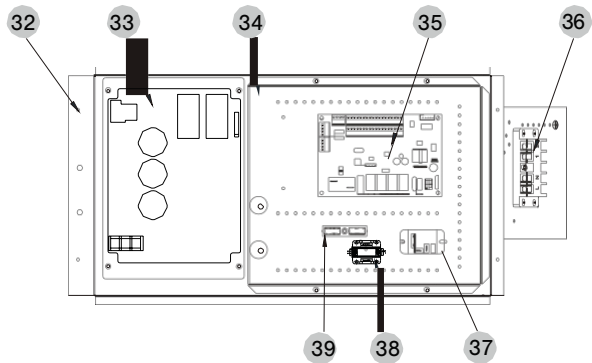
6.APPENDIX

6.3 Exploded View - HP50AEE

(1) Complete machine structure explosion diagram



(2) Electrical control structure explosion diagram



6.APPENDIX

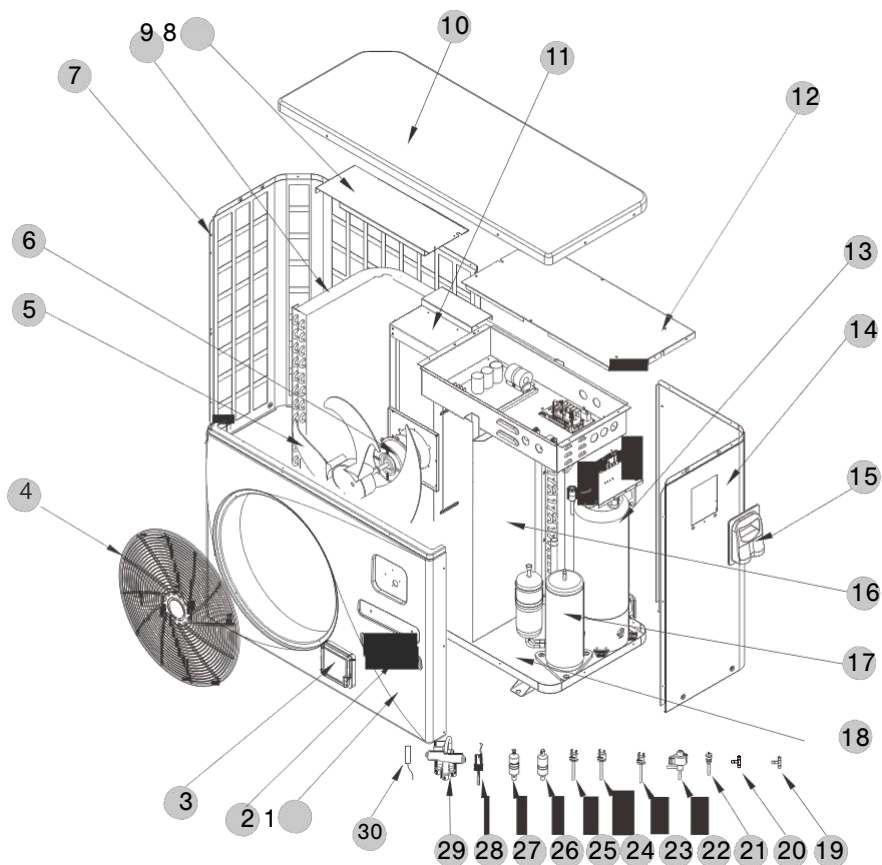
(3) Spare Parts List

No.	Code	Name	Specifications	Qty
1	301090-20120001	Front box	ABS	1
2	20000-230596	Trademark	250X55	1
3	72200070	LCD Display	82300038 + 82400012	1
4	20000-220369	Fan grill	ABS	1
5	20000-270004	Axial fan blade	Z500-145	1
6	20000-330132	DC motor	ZWS75-A	1
7	32012-120166	Finned heat exchanger	680x290x700x ϕ 7x1.5 2.0	1
8	301070-20080006	Back network	Galvanized sheet	1
9	32012-210570	Motor bracket	black 9005	1
10	32012-210493	Top support plate	ABS black fine lines	1
11	32012-210489	Top cover	ABS	1
12	32008-210167	Condenser splint	Galvanized sheet 1.0 black 9005	1
13	32012-210494	Electrical box cover	Galvanized sheet 1.2 black 9005	1
14	301060-20120002	Titanium tube heat exchanger	ϕ 9.52x9m ϕ 110 thread	1
15	301070-20120021	Right side panel	Galvanized sheet	1
16	32009-220029	Junction box	B ABS black	1
17	32009-220029	Middle partition	Galvanized sheet 1.0 black 9005k	1
18	20000-110436	compressor	5RD160ZAA21	1
19	301070-20120022	Chassis assembly	Galvanized sheet	1
20	20000-360005	Flow switch	PSL-1 3/4	1
21	20000-360157	Pressure Switch (Sealed System)	0.30MPa/0.15MPa $\pm$ 0.05 normally open	1
22	2001-3605	Pressure Switch (Sealed System)	3.2MPa/4.4MPa $\pm$ 0.15 normally closed	1
23	20000-360059	Pressure Switch (Sealed System)	3.2MPa/4.0MPa $\pm$ 0.15 normally closed	1
24	20000-360157	Needle valve	40mm 1/2" T0305-10	2
25	2000-1460	Three links	ϕ 6.5-2x ϕ 6.5(T)x0.75 T2M	2
26	304030-00000002	Three links	ϕ 9.52-2x ϕ 6.35(T)x1.0	2
27	20000-140449	Electronic expansion valve	DPF(TS1)1.8C-03	1
28	2004-1444	Filter (R410A)	ϕ 9.7- ϕ 9.7 (ϕ 28) T2Y2	1
29	20000-140618	Filter (R410A)	ϕ 9.7- ϕ 6.5(ϕ 28) T2Y2	1
30	20000-140484	Four - way valve	DSF-9-R410A	1
31	2000-3242	Sensor	150-502-98674(5K) 800mm	5
32	80701652	Electrical box assembly	Black 9005	1
33	20000-310170	Variable frequency drive	SA.FNB75GW.1	1
34	32012-210497	Electrical box line	Galvanized sheet	1
35	95005-310569	PC1002 Controller	20000-430177+35005-310569	1
36	20000-390231	5-position terminal block	UTD-32/5P(L1、L2、PE、1、2)	1
37	20000-360297	Relay	HATF903AS30AC220 AC220V 30A	1
38	20000-360006	Contacto	HCC-1NU04AA	1
39	2000-3909	2-position terminal block	RS9211(450V $\sim$ 4mm2)	1

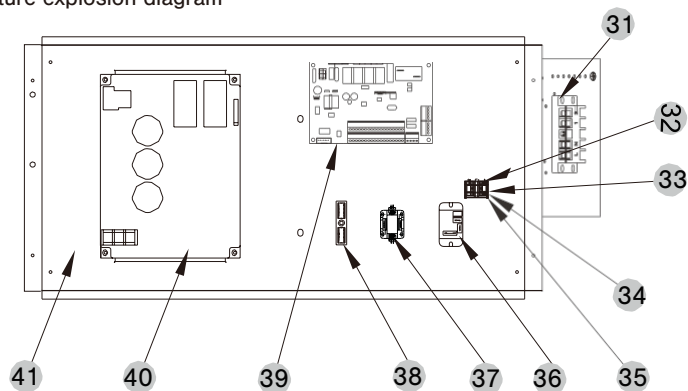
6.APPENDIX

6.3 Exploded View - HP70AEE

(1) Complete machine structure explosion diagram



(2) Electrical control structure explosion diagram



6.APPENDIX

(3) Spare Parts List

No.	Code	Name	Specifications	Qty
1	301090-00000004	Front box	ABS	1
2	20000-230596	Trademark	250X55	1
3	72200070	LCD Display	82300038 + 82400012	1
4	20000-220369	Fan grill	ABS	1
5	20000-270004	Axial fan blade	Z500-145	1
6	20000-330132	DC Motor	ZWS75-A	1
7	80701595	Back network	Galvanized sheet	1
8	301060-20180001	Finned heat exchanger	714x353x800x ϕ 7x2 2.0	1
9	32009-210663	Support plate	Galvanized sheet 1.5 black 9005	1
10	80900216	Top cover	ABS black fine lines	1
11	32009-210662	Motor bracket assembly	Black 9005	1
12	32009-210658	Electrical cover	Galvanized sheet 1.0 black 9005	1
13	80600265	Titanium tube heat exchanger	ϕ 12.7x7m+ ϕ 9.52x5m ϕ 160 thread	1
14	80701596	Right side panel	Galvanized sheet	1
15	32009-220029	Junction box	B ABS black	1
16	32009-210664	Middle partition	Galvanized sheet 1.0 black 9005	1
17	20000-110217	compressor	TNB220FLHMC	1
18	80701594	Chassis assembly	Galvanized sheet	1
19	2000-1460	Three links	ϕ 6.5-2x ϕ 6.5(T)x0.75 T2M	1
20	304030-00000002	Three links	40mm 1/2" T0305-10	1
21	20000-140150	Needle valve	ϕ 9.52-2x ϕ 6.35(T)x1.0	1
22	20000-140572	Electronic expansion valve	DPF(B)2.0C-008	1
23	20000-360157	Pressure Switch (Sealed System)	0.30MPa/0.15MPa $\pm$ 0.05 normally open	1
24	2001-3605	Pressure Switch (Sealed System)	3.2MPa/4.4MPa $\pm$ 0.15 normally closed	1
25	20000-360059	Pressure Switch (Sealed System)	3.2MPa/4.0MPa $\pm$ 0.15 normally closed	1
26	2004-1444	Filter (R410A)	ϕ 9.7- ϕ 9.7(ϕ 28) T2Y2	1
27	20000-140618	Filter (R410A)	ϕ 9.7- ϕ 6.5(ϕ 28) T2Y2	1
28	20000-360005	Flow switch	PSL-1 3/4	1
29	20000-140485	Four-way valve	DSF-11E-R410A	1
30	2000-3242	Sensor	150-502-98674(5K) 800mm	5
31	20000-390231	5-position terminal block	UTD-32/5P(L1, L2, PE, 1, 2)	1
32	20000-390049	Terminals	MSB 2.5-F	1
33	20000-390048	Terminals	MSDB 2.5-M	1
34	20000-390046	Terminals	MSB 2.5-M	1
35	20000-390047	Terminal block	D-MSB 1.5-F	1
36	20000-360297	Relay	HATF903AS30AC220 AC220V 30A	1
37	20000-360006	Contact	HCC-1NU04AA	1
38	2000-3909	2-position terminal block	RS9211(450V $\sim$ 4mm2)	1
39	95005-310569	PC1002 Controller	20000-430177+35005-310569	1
40	20000-310170	Variable frequency drive	SA.FNB75GW.1	1
41	32009-210651	Electrical box assembly	Black 9005	1