

Spare Parts Catalogue

Air/Water Heat Pump R290 Series

ES 100L ST / ES 100L ST UK

ES 250L ST / ES 250L ST UK

ES MCB

ES MHB

ES M8 R290

ES M12 R290

ES M15 R290 1 PH

ES M15 R290 3 PH

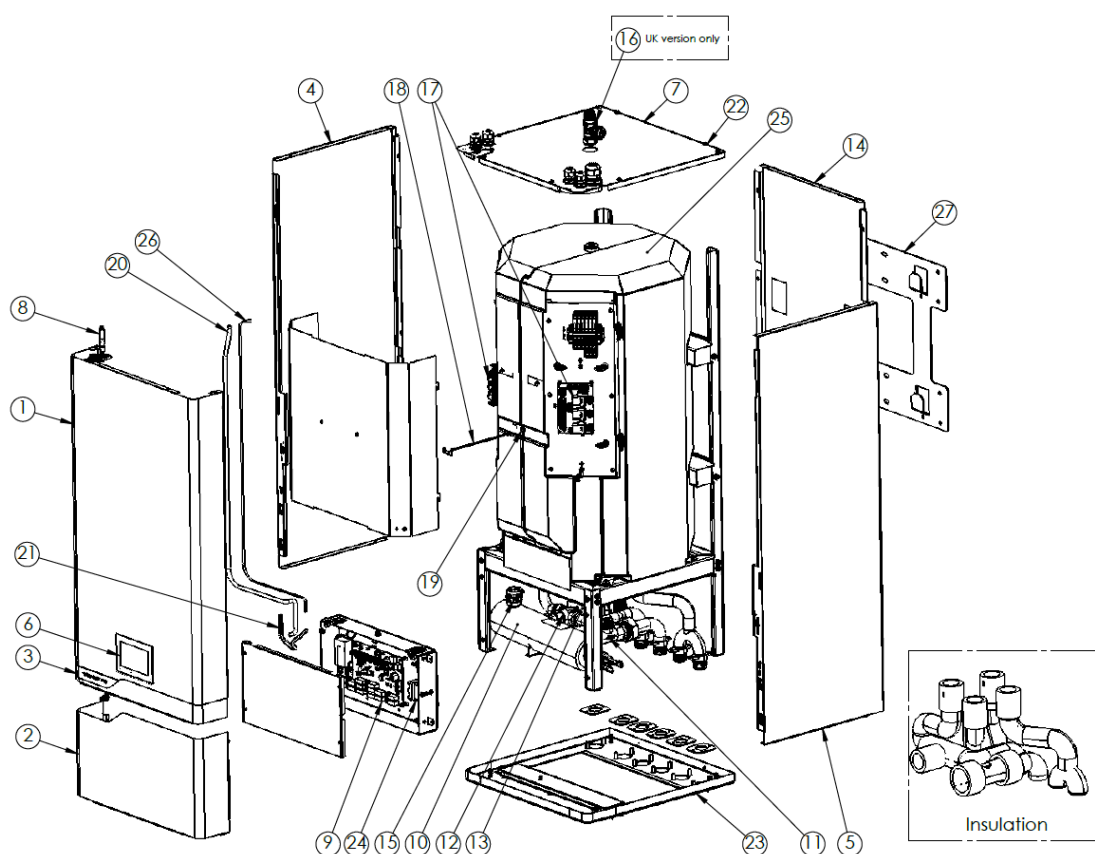
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1 Document History

Version	Release	Version Information
1.0	June 23, 2025	First release
2.0	August 15, 2025	Updated exploded view images

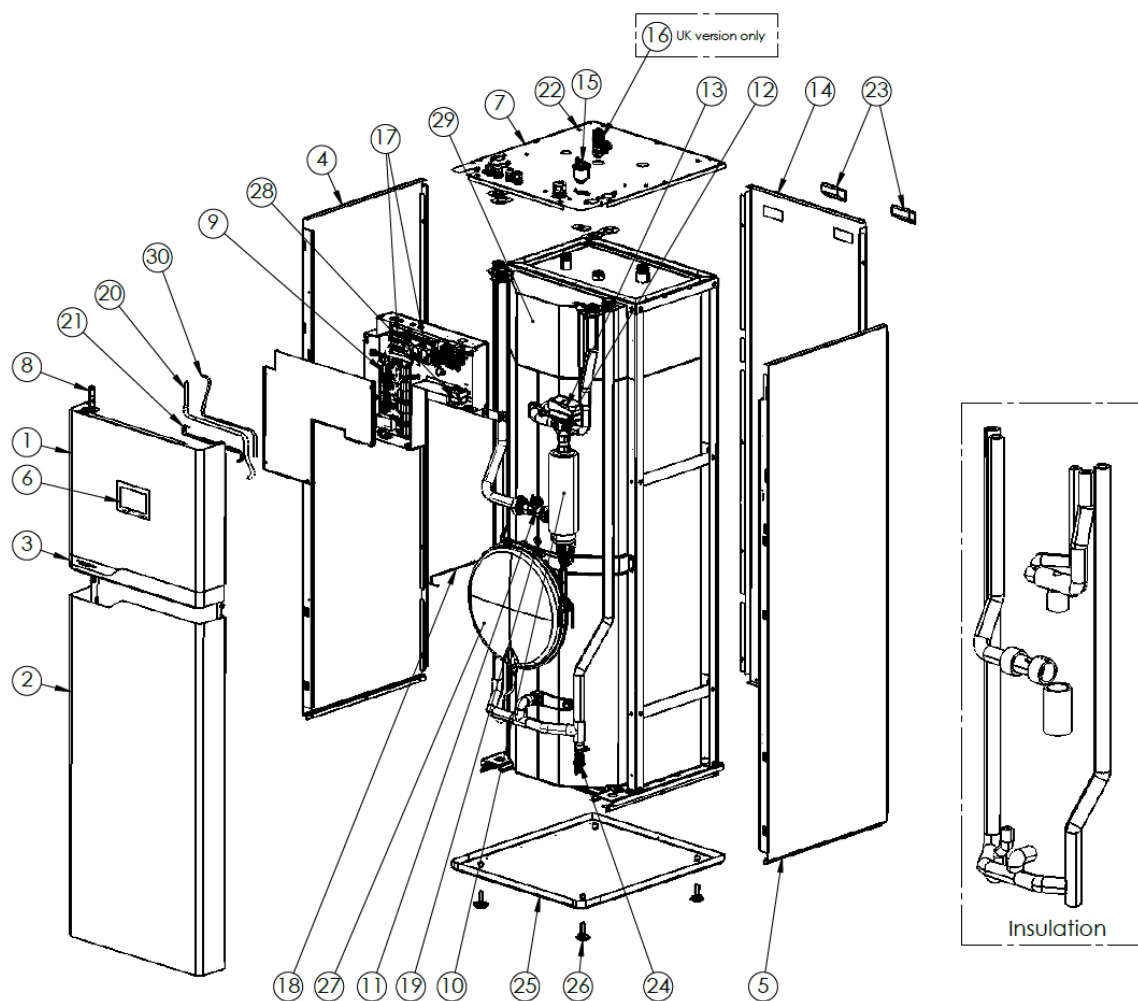
2 ES 100L ST / ES 100L ST UK



Denomination	Article Number	Article name
1	SP250010	ASSY front panel upper 100L OEM
2	SP250011	Front plate lower 100L OEM
3	SP250012	Signature element front panel upper 100L OEM
4	SP250013	Left side cover 100L
5	SP250014	Right side cover 100L
6	SP250064	Display
7	SP250015	Top plate 100L OEM
8	SP250016	Antenna Wi-Fi
9	SP250017	Indoor PCB
10	SP250018	Immersion heater 3ph 230V 9000W 100L with insulation
11	SP250019	Water flow sensor Type 210 plastic
12	SP250020	Diverting valve
13	SP250021	Actuator, diverting valve 230V
14	SP250022	Back side cover 100L
15	SP250023	Automatic bleeding valve 100L

16	SP250024	TPR valve temp 95°C Pressure 700Kpa
17	SP250025	PCBA Gen 1.5
18	SP250026	Bracket DHW temp. sensor 100L
19	SP250063	Temp. sensor TR1, TR2, THC, TV1, TV2, TDW NTC 5KOhm Cu head
20	SP250028	LAN connector Rj45 with cable 0,11m
21	SP250029	Communication cable main PCB to display 2,0 m
22	SP250030	Screw – M4x10 – TX20 (1 set = 8 pcs)
23	SP250031	Bottom plate 100L OEM
24	SP250032	Thermostat el. heater overheat protector @ 95°C
25	SP250033	DHW Tank 100L
26	SP250100	Antenna cable inc. connector 1,0 m
27	SP250089	Wall mount bracket
	SP250060	Ext. cable for temp. sensors TR1, TR2, THC, TV1, TV2, TDW 5,0 m
	SP250061	PWM cable IU to OU 15,0 m
	SP250062	Communication cable IU to OU 15,0 m
External temp. sensors	SP250063	Temp. sensor TR1, TR2, THC, TV1, TV2, TDW NTC 5KOhm Cu head

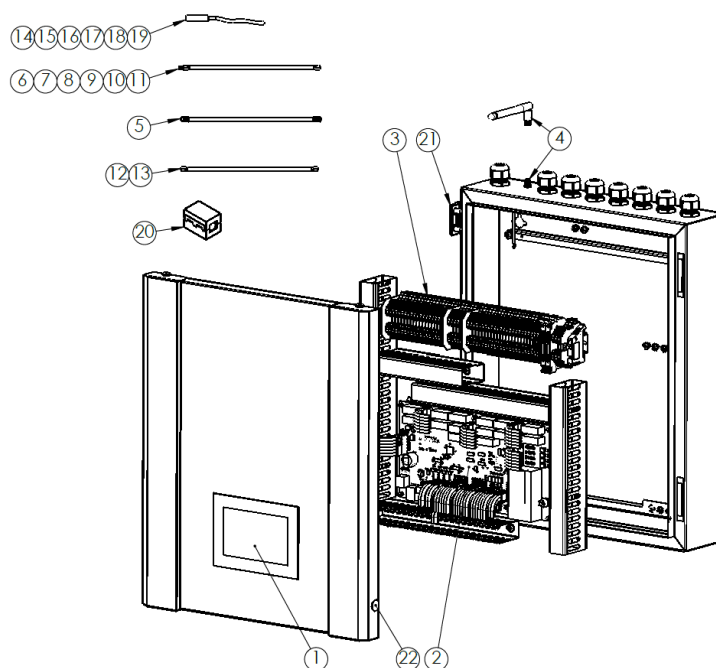
3 ES 250L ST / ES 250L ST UK



Denomination	Article Number	Article name
1	SP250034	ASSY front panel 250L OEM
2	SP250035	ASSY front panel lower 250L OEM
3	SP250036	Signature element front panel upper 250L OEM
4	SP250037	Left side cover 250L
5	SP250038	Right side cover 250L
6	SP250064	Display
7	SP250039	Top plate 250L OEM
8	SP250016	Antenna Wi-Fi
9	SP250017	Indoor PCB
10	SP250040	Immersion heater 3ph 230V 9000W 250L with insulation
11	SP250019	Water flow sensor type 210 plastic
12	SP250020	Diverting valve

13	SP250021	Actuator, diverting valve 230V
14	SP250041	Back side cover 250L
15	SP250042	Automatic bleeding valve 250L
16	SP250024	TPR valve temp 95°C pressure 700Kpa
17	SP250025	PCBA Gen 1.5
18	SP250044	Bracket DHW temp. sensor 250L
19	SP250063	Temp. sensor TR1, TR2, THC, TV1, TV2, TDW NTC 5KOhm Cu head
20	SP250045	LAN connector Rj45 with cable 0,45 m
21	SP250029	Communication cable main PCB to touch screen 2,0 m
22	SP250030	Screw – M4x10 – TX20 (1 set = 8 pcs)
23	SP250046	Back side plastic handle 250L
24	SP250047	Drain valve 250L
25	SP250048	Bottom plate 250L OEM
26	SP250049	Machine foot 250L
27	SP250050	Expansion tank 10L
28	SP250032	Thermostat el. heater overheat protector @ 95°C
29	SP250051	DHW tank 250L
30	SP250101	Antenna cable incl. connectors 0,45 m
	SP250060	Ext. cable for temp. sensors TR1, TR2, THC, TV1, TV2, TDW 5,0 m
	SP250061	PWM cable IU to OU 15,0 m
	SP250062	Communication cable IU to OU 15,0 m
External temp. sensors	SP250063	Temp. sensor TR1, TR2, THC, TV1, TV2, TDW NTC 5KOhm Cu head

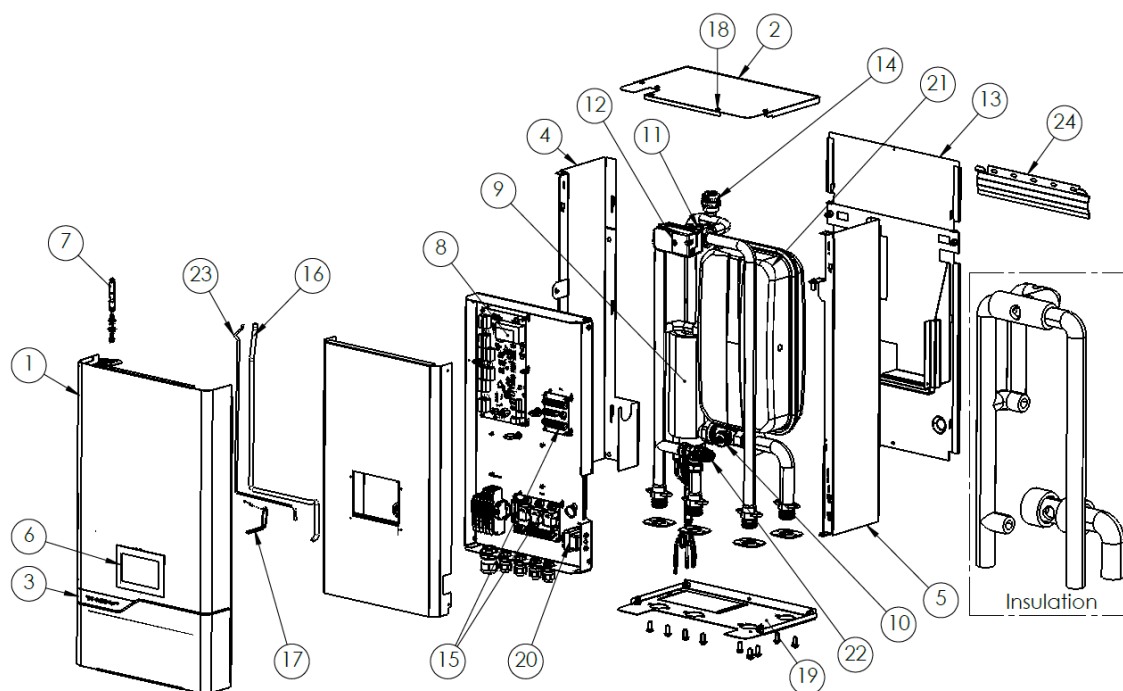
4 ES MCB



Denomination	Article Number	Article name
1	SP250064	Display
2	SP250017	Indoor PCB
3	SP240283	Terminals, UK 5 HESl, 4mm ² , 6.3A, black
4	SP250075 + SP250016	Antenna cable inc. connectors 0,61 m + Antenna Wi-Fi
5	SP240286	Communication cable main PCB to display, 0,5m
6	SP250007	TR1 extension cable, 5m
7	SP240288	TR2 extension cable, 5m
8	SP240289	TV1 extension cable, 20m
9	SP240290	TV2 extension cable, 20m
10	SP240291	THC extension cable, 5m
11	SP240292	TDW extension cable, 5m
12	SP240293	PWM cable IU to OU, 15m
13	SP240294	Communication cable IU to OU 15m
14	SP240295	TR1 temp. sensor, NTC 5KOhm rubber head
15	SP240296	TR2 temp. sensor, NTC 5KOhm rubber head
16	SP240297	TV1 temp. sensor, NTC 5KOhm Cu head
17	SP240298	TV2 temp. sensor, NTC 5KOhm Cu head

18	SP240299	THC temp. sensor, NTC 5KOhm Cu head
19	SP240301	TDW temp. sensor, NTC 5KOhm Cu head
20	SP240302	Magnet ring (F9 SCNF 130A) communication cable
21	SP250095	Hinge, metal, CL226-3A
22	SP250096	Rubber plug

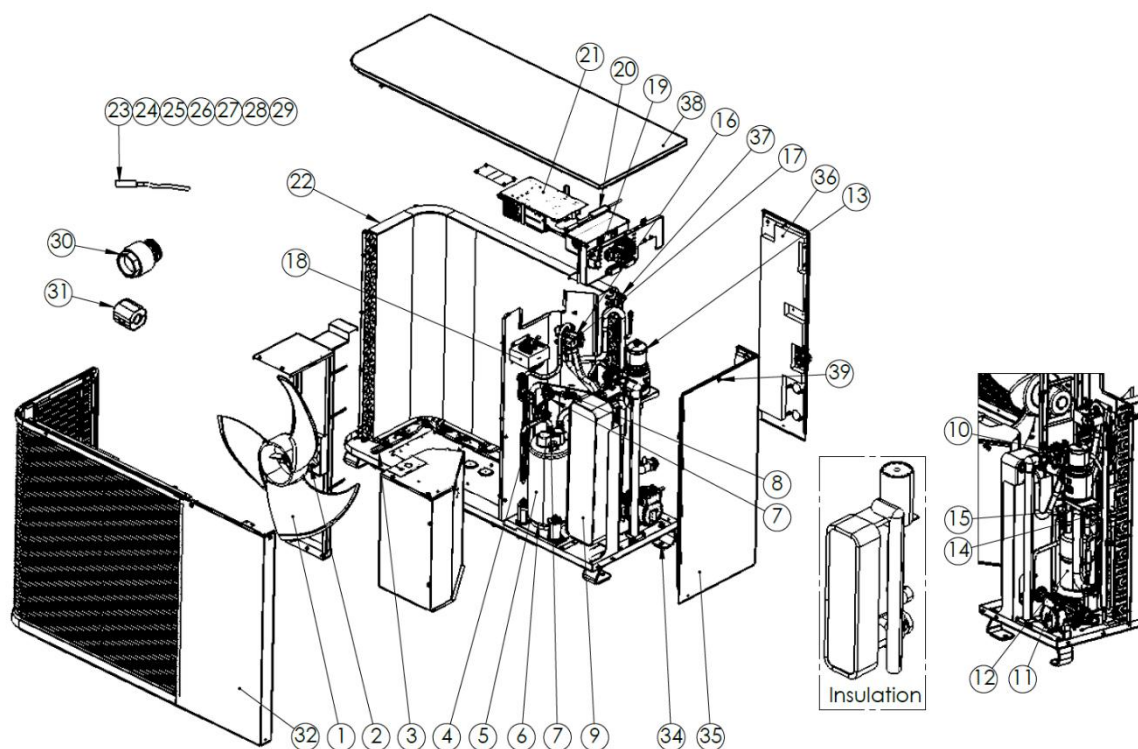
5 ES MHB



Denomination	Article Number	Article name
1	SP250076	ASSY front top Hydrobox OEM
2	SP250077	Top plate Hydrobox OEM
3	SP250078	Signature element front top Hydrobox OEM
4	SP250079	Side plate left hooks Hydrobox
5	SP250080	Side plate right hooks Hydrobox
6	SP250064	Display
7	SP250016	Antenna Wi-Fi
8	SP250017	Indoor PCB
9	SP250081	Immersion heater 3ph 230V 9000W HB insulation included
10	SP250019	Water flow sensor type 210 plastic
11	SP250020	Diverting valve
12	SP250021	Actuator, diverting valve 230V
13	SP250082	Back plate Hydrobox
14	SP250083	Air vent with track
15	SP250025	PCBA Gen 1.5
16	SP250084	LAN connector Rj45 with cable 0,670m

17	SP250029	Communication cable main PCB to touch screen 2,0 m
18	SP250030	Screw – M4x10 – TX20 (1 set = 8 pcs)
19	SP250085	Bottom plate Hydrobox OEM
20	SP250032	Thermostat – el. Heater overheat protector @ 95°C
21	SP250086	Expansion vessel 14L
22	SP250087	Safety valve
23	SP250075	Antenna cable inc. connectors 0,61 m
24	SP250088	Wall mount bracket
	SP250060	Ext. cable for temp. sensors TR1, TR2, THC, TV1, TV2, TDW 5,0 m
	SP250061	PWM cable IU to OU 15,0 m
	SP250062	Communication cable IU to OU 15,0 m
	SP250063	Temp. sensor TR1, TR2, THC, TV1, TV2, TDW NTC 5KOhm Cu head

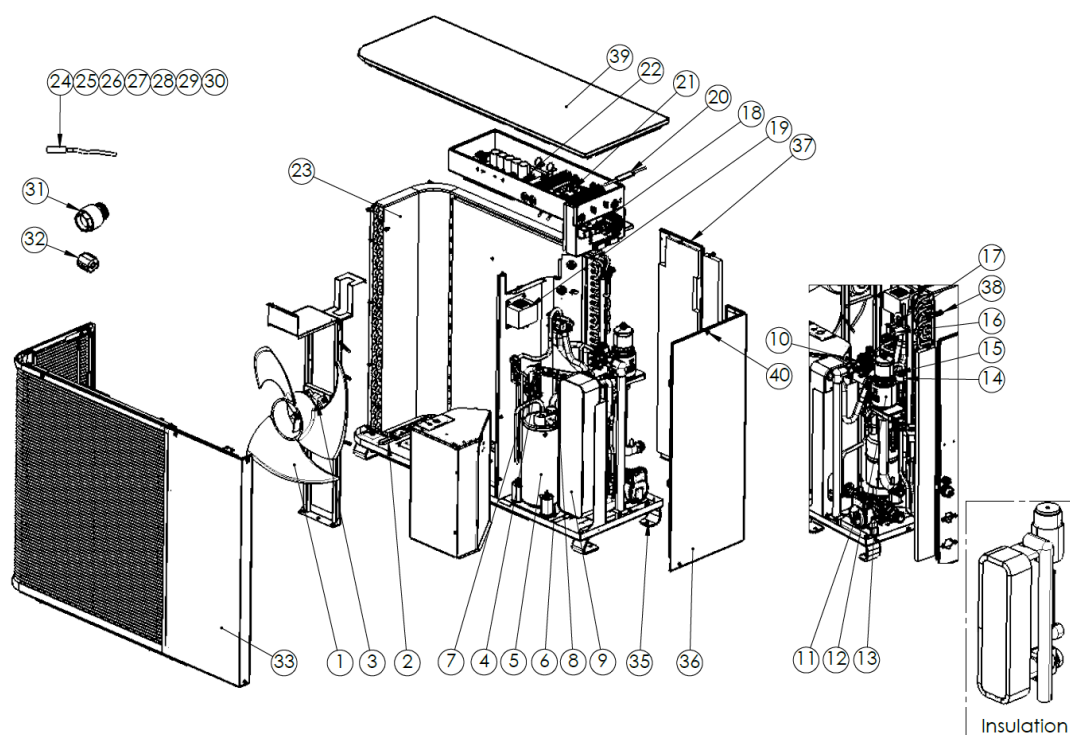
6 ES M8 R290



Denomination	Article Number	Article name
1	SP240113	Fan blade, $\Phi 550 \times 124$
2	SP240115	DC motor, SIC-65FV-F162-1, DC310V, 8P, 62W
3	SP240165	Bottom plate heater, 140W, L=1800mm
4	SP240146	High pressure sensor, 35CP02-06158050XS00F5H, 0-50bar
5	SP240132	Compressor, WHP07600PSDPC9KQ, Highly
6	SP240135	Crankcase heater, P=30W, L=390mm
7	SP240148	High pressure switch, OFF:3.2MPa, ON:2.6MPa, with insulation
8	SP240147	Low pressure sensor, 0-20bar
9	SP240129	Plate heat exchanger, with Insulation and sealing ring
10	SP240125	Safety valve, 2.5bar
11	SP240154	Water pump, Wilo, Para 25-130/9-87/IPWM1, with insulation
12	SP240242	Liquid separator, 1.8L, 2- $\Phi 9.6$, 2- $\Phi 16.2$
13	SP250008	Gas separator, CW617N, G1-1/4", 10bar, Gen2 with insulation
14	SP240138	EEV, Sanhua, DPF(TS1)1.65C-41

15	SP240141	EEV coil, Sanhua, PQ-M10012-000060, 5cores, 1.2m
16	SP240142	Four-way valve, Sanhua, SHF-9H-35U-P, D/E/S/C: 3/8" / 5/8"
17	SP240145	4-way valve coil, Sanhua, SQ-A2522G-000190, AC220V, SHF-4-10L3
18	SP250003	Reactor, R2550L, AC25A, 5.0mH
19	SP240164	Relay
20	SP240263	Isolator PCB
21	SP240264	Outdoor main PCB, N30A01
22	SP240265	Evaporator, with insulation
23	SP240158	Discharge temp. sensor, R25, NTC50K, B=3950K
24	SP240155	Suction temp. sensor, R25, NTC5K, B=3470K
25	SP240157	Outdoor coil temp. sensor, R25, NTC5K, B=3470K
26	SP240156	Indoor coil temp. sensor, R25, NTC5K, B=3470K
27	SP240112	Ambient temp. sensor, R25, NTC5K, B=3470K
28	SP240160	Water inlet temp. sensor, R25, NTC5K, B=3470K
29	SP240159	Water outlet temp. sensor, R25, NTC5K, B=3470K
30	SP240167	Check valve
31	SP240266	Magnet ring F9 SCRC 200D on the package
32	SP250065	Front panel comp. with Silencer*2, screw & washer*24, mesh
34	SP250066	Feet, bolts*2, washer*2
35	SP250067	Right side panel comp. washer*2, screws*2, insulation
36	SP250068	Left side panel comp. insulation, screws*10, washers*10
37	SP250069	plastic holder for Ambient sensor, screw*1
38	SP250070	Top panel comp. screw*8, washer*8, insulation*2, rubber plug*8
39	SP250096	Rubber plug

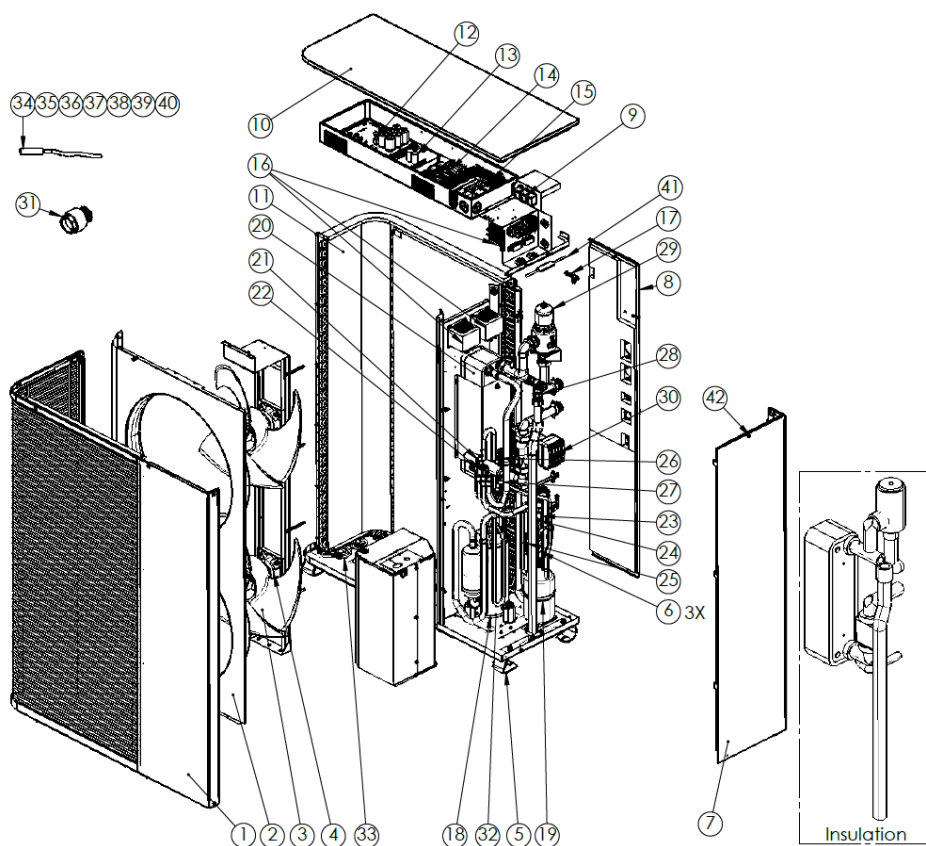
7 ES M12 R290



Denomination	Article Number	Article name
1	SP240113	Fan blade, $\Phi 550 \times 124$
2	SP240233	Bottom plate heater, 140W, L=1800mm
3	SP240115	DC motor, SIC-65FV-F162-1, DC310V, 8P, 62W
4	SP240146	High pressure sensor, 35CP02-06158050XS00F5H, 0-50bar
5	SP240133	Compressor, WHP10200PSDPC9KQ, Highly
6	SP240136	Crankcase heater, P=30W, L=390mm
7	SP240219	High pressure switch, OFF:3.2MPa, ON:2.6MPa, with insulation
8	SP240147	Low pressure sensor, 35CP02-03158020XS00F5H, 0-20bar
9	SP240130	Plate heat exchanger, with Insulation and sealing ring
10	SP240125	Safety valve, 2.5bar
11	SP240161	Water pump, Wilo, Para 25-130/9-87/IPWM1, with insulation
12	SP250008	Gas separator, CW617N, G1-1/4", 10bar, Gen2 with insulation
13	SP240242	Liquid separator, 1.8L, 2- $\Phi 9.6$, 2- $\Phi 16.2$
14	SP240138	EEV, Sanhua, DPF(TS1)1.65C-41
15	SP240211	EEV coil, Sanhua, PQ-M10012-000058, 5 cores, 1.5m
16	SP240142	Four-way valve, Sanhua, SHF-9H-35U-P, D/(E/S/C): 3/8" / 5/8"
17	SP240213	4-way valve coil, Sanhua, SQ-A2522G-000190, AC220V, SHF-4-10L3

18	SP240164	Relay
19	SP240268	Reactor, R4030L (CU), AC40A, 3.0mH
20	SP240263	Isolator PCB
21	SP240269	Outdoor main PCB, N37, Hiplus5000, MGMT
22	SP240270	Compressor driver PCB, MGMT hiPlus5000-DB
23	SP240271	Evaporator, with insulation
24	SP240153	Discharge temp. sensor, R25, NTC50K, B=3950K
25	SP240221	Suction temp. sensor, R25, NTC5K, B=3470K
26	SP240225	Outdoor coil temp. sensor, R25, NTC5K, B=3470K
27	SP240223	Indoor coil temp. sensor, R25, NTC5K, B=3470K
28	SP240207	Ambient temp. sensor, R25, NTC5K, B=3470K
29	SP240230	Water inlet temp. sensor, R25, NTC5K, B=3470K
30	SP240228	Water outlet temp. sensor, R25, NTC5K, B=3470K
31	SP240167	Check valve
32	SP240266	Magnet ring F9 SCRC 200D on the package
33	SP250071	Front panel comp. with Silencer*2, screw & washer*24, mesh
35	SP250066	Feet, bolts*2, washer*2
36	SP250072	Right side panel comp. washer*2, screws*2, insulation
37	SP250073	Left side panel comp. insulation, screws*7, washers*7
38	SP250069	plastic holder for Ambient sensor, screw*1
39	SP250070	Top panel component, Screws*8, washers*8, insulation*2, rubber plug*8
40	SP250096	Rubber plug

8 ES M15 R290 3 PH / ES M15 R290 1 PH



Denomination	Article Number	Article name
1	SP240272	Front panel comp. with Silencer*2, screw*27, washer*1, mesh
2	SP240273	Air guide components, washer & screw*14
3	SP240113	Fan blade, $\Phi 550 \times 124$
4	SP240115	DC fan motor, SIC-65FV-F162-1, DC310V,8P,62W
5	SP240274	Feet, bolts*2, washer*2
6	SP240152	Check valve (refrigerant system)
7	SP240275	Right side panel comp. washer*2, screws*2, silencer*2
8	SP240276	Left side panel comp. silencer*2, screw1*2 and 2*8, washer*9
9	SP240164	Relay
10	SP240277	Top panel comp. screws*8, washers*8, insul.*1, rubber plug*8
11	SP240278	Evaporator, with insulation
12	SP240279	Compressor driver MGMT Hiplus12000-PDE
13	SP240210	Fan motor PCB
14	SP240209	Filter PCB, MGMT, HiPlus12000EX-AMT, 20A

15	SP250006	Outdoor main PCB, N37, Hiplus5000, MGMT
16	SP240238	Reactor 1, R1325L(AL), 13A, 25mH
17	SP250069	Plastic holder for ambient sensor, screw*1
18	SP240134	Compressor, WHP13300PSDPC8FQ Highly
19	SP250074	Liquid separator, 1.8L, 2-Φ9.6,2-Φ16.2
20	SP240131	Plate heat exchanger, with Insulation and sealing ring
21	SP240144	Four-way valve, Sanhua, SHF-9H-35U-P, D/(E/S/C): 3/8" / 5/8"
22	SP240214	Four-way valve coil, Sanhua, SQ-A2522G-000190, AC220V
23	SP240140	EEV, Sanhua, DPF(TS1)2.0C-33
24	SP240212	EEV coil, Sanhua, PQ-M10012-001002, 5 cores, 2m
25	SP240147	Low pressure sensor, 0-20bar
26	SP240146	High pressure sensor, 35CP02-06158050XS00F5H, 0-50bar
27	SP240220	High pressure switch, OFF:3.2MPa, ON:2.6MPa, with insulation
28	SP240125	Safety valve, 2.5bar
29	SP250008	Gas separator, CW617N, G1-1/4", 10bar, Gen2 with insulation
30	SP250009	Water pump comp. Grundfos, G1-1/2, with insulation*3
31	SP240235	Check valve (water system)
32	SP240282	Crankcase heater, P=60W, L=370mm
33	SP240234	Bottom plate heater, 140W, L=1800mm
34	SP240227	Discharge temp. sensor, R25, NTC50K, B=3950K
35	SP240222	Suction temp. sensor, R25, NTC5K, B=3470K
36	SP240226	Evaporating temp. sensor, R25, NTC5K, B=3470K
37	SP240224	Condensing temp. sensor, R25, NTC5K, B=3470K
38	SP240207	Ambient temp. sensor, R25, NTC5K, B=3470K
39	SP240231	Water inlet temp. sensor, R25, NTC5K, B=3470K
40	SP240229	Water outlet temp. sensor, R25, NTC5K, B=3470K
41	SP240263	Isolator PCB
42	SP250096	Rubber plug



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We reserve the right to make changes that do
not impair the functionality of the device.