



HVAC SPARE PARTS CATALOGUE



SPECIAL VEHICLES



KNORR-BREMSE

SPC30622

SIGMA
BUILT FOR THE TOUGHEST AIR CONDITIONS

The SIGMA M SERIES heavy duty industrial mains powered air conditioner range has been designed to provide controlled space conditions for crane operators cabins, control rooms, switch rooms and other applications where heavy to severe shock loads, vibration and dust laden corrosive environments are experienced and the applications require a high cooling and heating capacity.

M
SERIES

OVERVIEW
PRESSURISERS
E SERIES
H SERIES
M SERIES
T SERIES
PILOT CONTROL BOXES
SERVICABLE PARTS
UNDERSTANDING HVAC
POLICIES

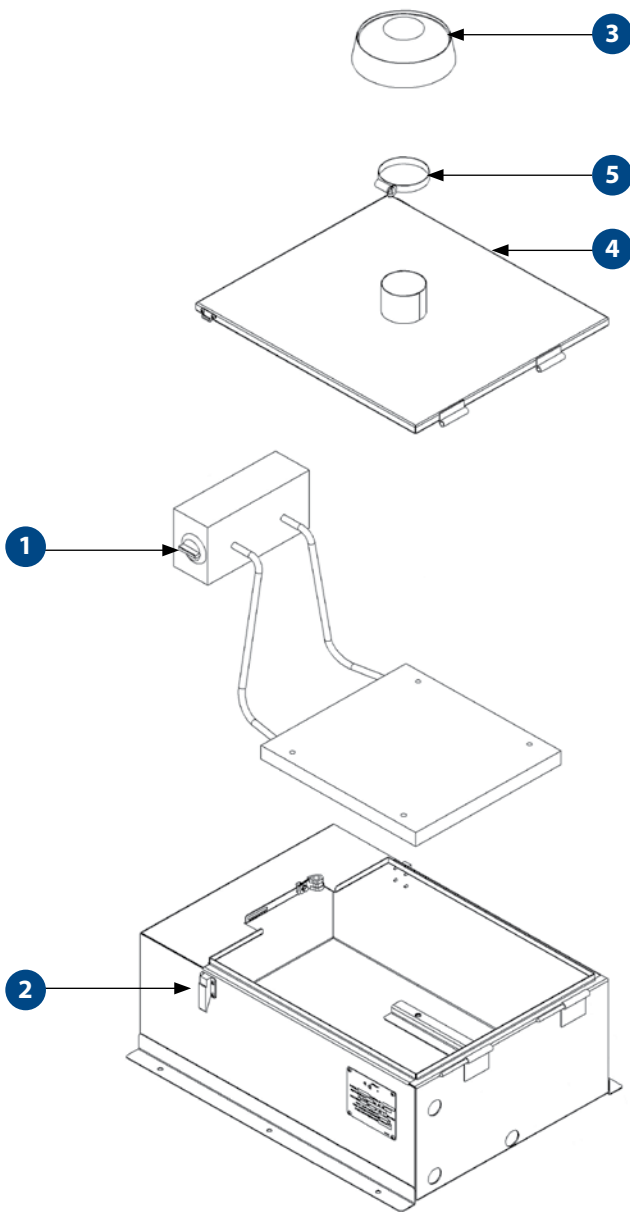


MHF2M2*

CONDENSATE EVAPORATOR HEATER UNIT

MHF2M2*
Condensate Evaporator Heater Unit 1.8kW 415VAC

* HVAC obsolete, spares support only



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU691283	HEATER CONDENSATE 1.75KW 415V	1
2 AU851500	LATCH	2
3 AU871070	AIR HOOD TO FIT 2.5" OD PIPE	1
4 AS213220	CONDENSATE LID ASSEMBLY	1
5 AU553656	CLAMP UTILUX	1
AU851501	LATCH STRIKER	1

SPECIFICATIONS

	METRIC	IMPERIAL
Heating Capacity	1.8 kW	5971 BTU
Power Supply	415 VAC 50Hz	415 VAC 50Hz
Current Draw	5 A	5 A
Weight (nominal)	16.0 Kg	35.2 lbs
Dimension (L X W X H)	570mm X 400 mm X 350mm	22.4in X 15.7in X 13.8in

- DRAGLINE & SHOVEL
- DRILL
- EXCAVATOR
- DOZER
- TRUCK
- WHEEL LOADER
- CONSTRUCTION
- UNDERGROUND EQUIPMENT
- INDUSTRIAL
- SMELTERS
- RAIL SPECIAL VEHICLES

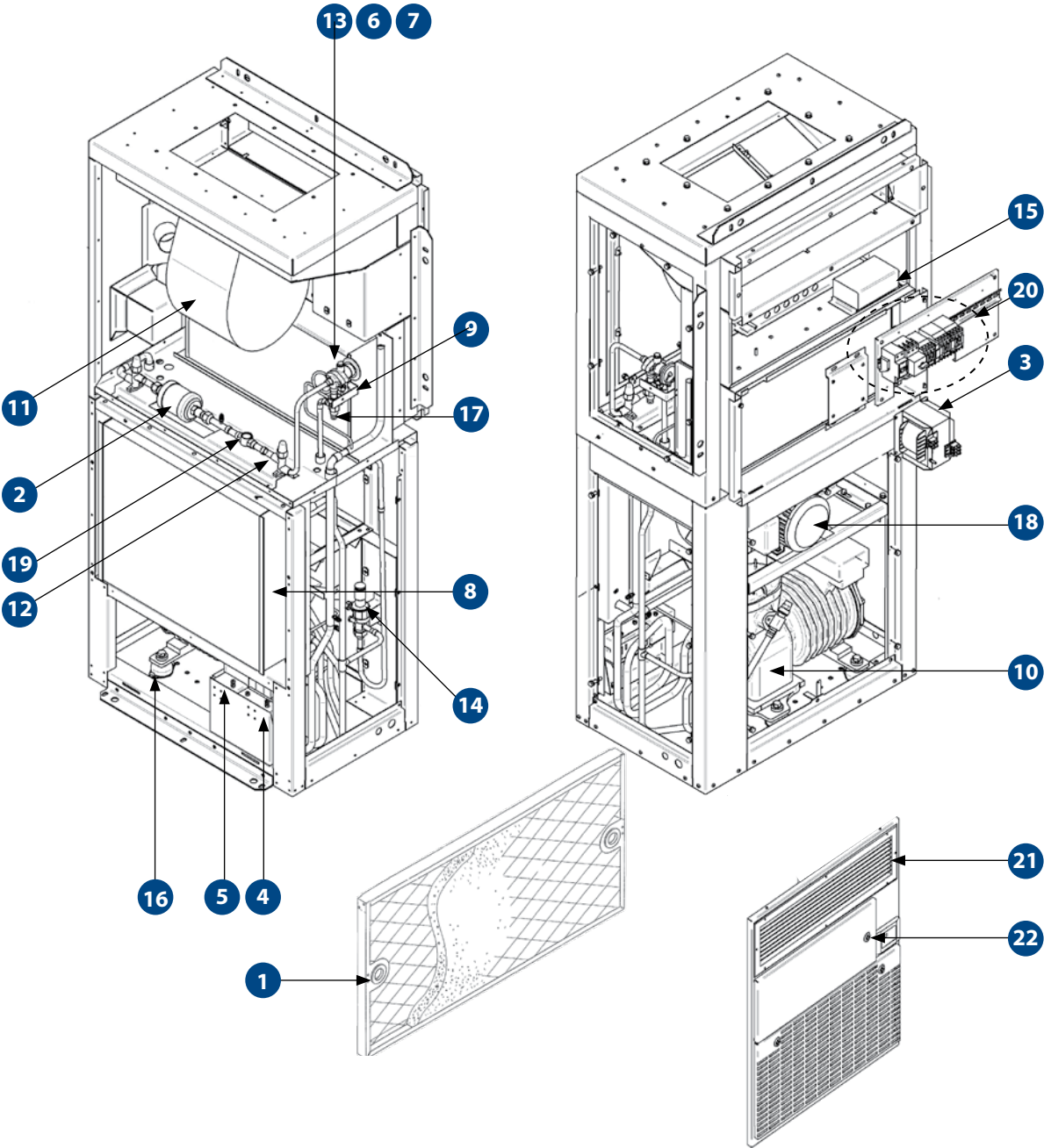


MPF5MZ4*

CRANE CAB HVAC UNIT

MPF5MZ4*
Floor Mounted Upright Packaged HVAC 5kW 415VAC
for Hi-Ambient (Gas R124) without Pressuriser

* HVAC obsolete, spares support only



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1	AS242745 RETURN AIR FILTER ASSEMBLY	1
2	AU531358 DRIER 5/8" MF	1
3	AU666026 TRANSFORMER 415/240/24V 500VA	1
4	AU523112 DUAL PRESSURE CONTROL LP AUTO HP AUTO	1
5	AU523606 HP CONTROL AUTO	1
6	AU521235 TX POWER ELEMENT 5' 1/4" EQ R124	1
7	AU521589 TX VALVE CAGE R747	1
8	AU110429 CONDENSER COIL 600MM X 508MM X 110MM 4RW MPF	1
9	AU120284 EVAPORATOR COIL 610X318X110 4RW MPF	1
10	AU260205 COMPRESSOR 400VAC 50Hz	1
11	AU410503 BLOWER ASSEMBLY 240V 50HZ	1
12	AU517258 PCLV 5/8" SOLDER	2
13	AU521400 TX VALVE BODY 1/2" IN X 5/8" OUT 90 DEG	1
14	AU526015 VALVE HOT GAS BYPASS 1/2" ODS SLIMLINE	1
15	H0152931 THERMOSTAT LE75 CONTROL KIT	1
16	UC269 ANTI VIBRATION MOUNT 1/2"-20UNF	4
17	AU526036 HOT GAS MIXER NV 24MM	1
18	AU310277 MOTOR 0.37/0.12KW 80B 4/6P	1
19	AU533556 LMI 5/8" SOLDER	1
20	AU641390 CIRCUIT BREAKER 4A 2 POLE	1
	AU641496 CIRCUIT BREAKER 11.0-16.0A 3 POLE	1
	AU641501 CIRCUIT BREAKER AUX 1CO	1
	AU651303 CONTACTOR 9A 240VAC 3 POLE 1NO 1NC	3
	AU651316 CONTACTOR INTERLOCK	1
21	AU821136 LOUVRE 646MM X 136MM OPEN AREA DOUBLE DEFLECT	1
22	AU851566 LATCH 1/4 TURN 8MM SQUARE	3
H0017184 VALVE SHUT OFF SUCTION		1
H0017209 GASKET DISCHARGE VALVE		1
H0017215 VALVE SHUT OFF DISCHARGE		1
H0017217 GASKET SUCTION VALVE		1
AU420252 FAN AXIAL 400MM 9 BLADES		1
AU517501 VALVE ACCESS 1/4" 60MM SHORT TAIL		1
AU517502 VALVE ACCESS 1/4" 1/4" & 3/8" OD SOLDER		1
AU662410 SWITCH KEYED 20A		1
S2427088 RETURN AIR MEDIA		1
AU613047 TERMINAL BOX 80MM X 80MM		1
AU851567 KEY 8MM SQUARE SUIT AU851566		1
AU862211 SEAL RUBBER		0.3
S2427088 FILTER MEDIA		1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	5.0 kW	17060 BTU
Air Flow	270 l/s	572 CFM
Power Supply	415 VAC	415 VAC
Current Draw	9 A	9 A
Refrigerant	R124	R124
Maximum Ambient Temperature	65°C	149°F
Weight (nominal)	295.0 Kg	649 lbs
Technical Manual Reference	SM401-2427	SM401-2427
Dimension (L X W X H)	1000mm X 680 mm X 480mm	39.4in X 26.8in X 18.9in

MAINTENANCE

MONTHLY / 450 HOURS	
AS242745	RETURN AIR FILTER ASSEMBLY
ANNUAL / 5,400 HOURS	
AU531358	DRIER 5/8" MF
3 YEARS / 16,200 HOURS	
AU523112	DUAL PRESSURE CONTROL LP AUTO HP AUTO
AU523606	HP CONTROL AUTO
H0017184	VALVE SHUT OFF SUCTION
H0017209	GASKET DISCHARGE VALVE
H0017215	VALVE SHUT OFF DISCHARGE
H0017217	GASKET SUCTION VALVE
UC269	ANTI VIBRATION MOUNT 1/2"-20UNF
AU521235	TX POWER ELEMENT 5' 1/4" EQ R124
AU521589	TX VALVE CAGE R747
AU523112	DUAL PRESSURE CONTROL LP AUTO HP AUTO
AU523606	HP CONTROL AUTO

Please contact SIGMA for more information including details on an overhaul scope and interval.
Maintenance periods and scope are dependent on application and site conditions, and are to be used as a guide.

COMPANION ITEMS

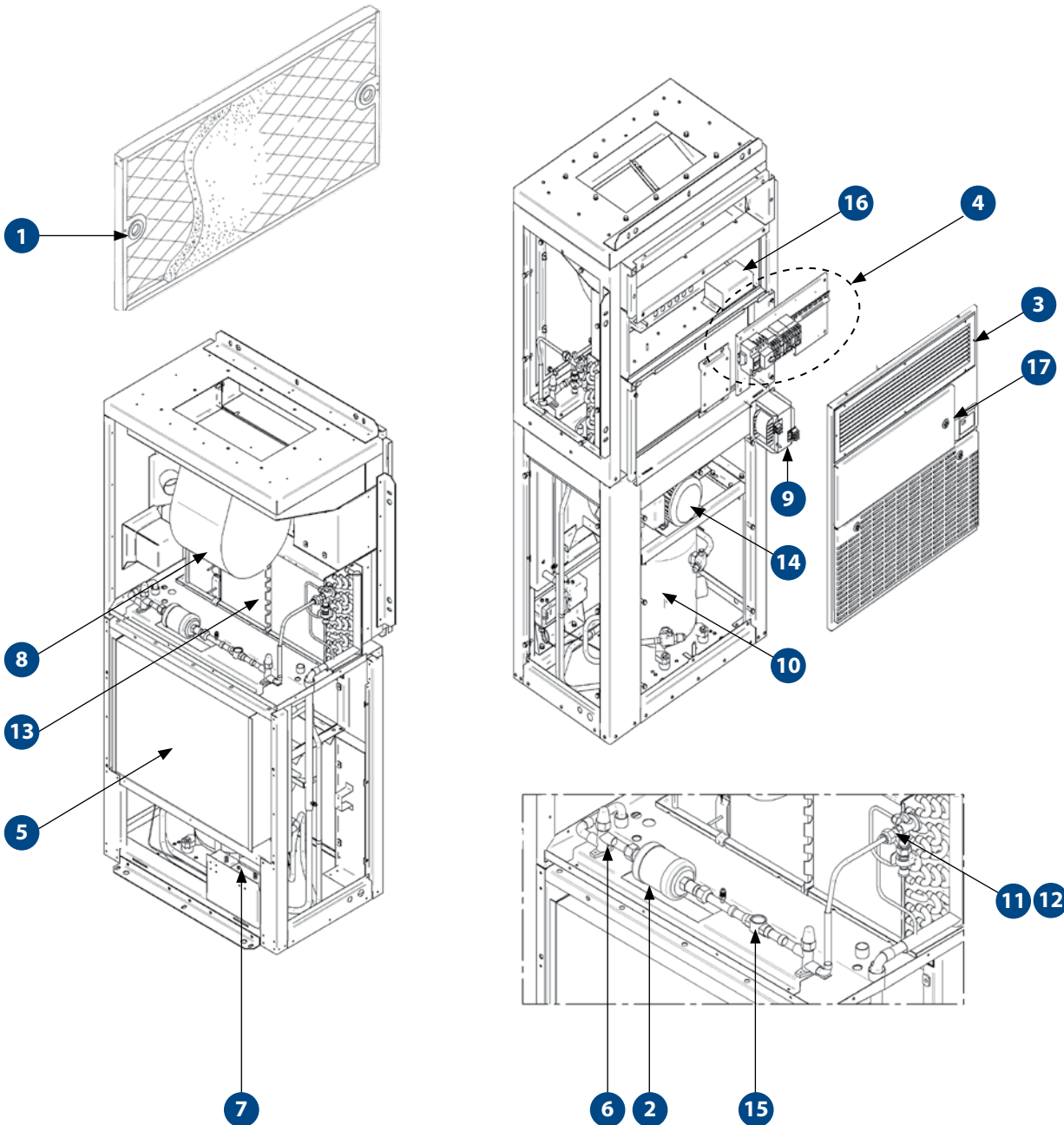
PART NO.	DESCRIPTION
FVV50M1	Pressuriser



MPF6MX10

FLOOR MOUNTED UPRIGHT HVAC UNIT

MPF6MX10
Floor Mounted Upright Packaged HVAC 6kW 415VAC without Pressuriser



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AS242745	RETURN AIR FILTER ASSEMBLY	1
2 AU531358	DRIER 5/8" MF	1
3 AU821136	LOUVRE 646MM X 136MM OPEN AREA DOUBLE DEFLECT	1
AU641390	CIRCUIT BREAKER 4A 2 POLE	1
4 AU641496	CIRCUIT BREAKER 11.0-16.0A 3 POLE	1
AU651303	CONTACTOR 9A 240VAC 3 POLE 1NO 1NC	2
5 AU110429	CONDENSER COIL 600 X 508 X 110 4RW MPF	1
6 AU517258	PCLV 5/8" SOLDER	2
7 AU523112	DUAL PRESSURE CONTROL LP AUTO HP AUTO	1
8 AU410503	BLOWER ASSEMBLY 240V 50HZ	1
9 AU666026	TRANSFORMER 415V 240V 24V 500VA	1
10 AU230346	COMPRESSOR 246MM X 200MM X 372MM 3 PHASE ROTALOK	1
11 AU521505	TX ORIFICE 2T R22 #05	1
12 AU521509	TX VALVE 2T 3/8" IN 1/2" OUT 1/4" EQ R134A	1
13 AU120284	EVAPORATOR COIL 610MM X 318MM X 110MM 4RW MPF	1
14 AU310214	MOTOR 0.75KW 80P FT 4P	1
15 AU533556	LMI 5/8" SOLDER	1
16 H0152931	THERMOSTAT CONTROL KIT	1
17 AU851566	LATCH 1/4 TURN	3
AU420252	FAN AXIAL 400MM 9 BLADES	1
AU662410	SWITCH KEYED 20A	1
S2427088	FILTER MEDIA	1
AU517502	VALVE ACCESS 1/4" 1/4" & 3/8" OD SOLDER	1
AU862213	SEAL RUBBER	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	6.0 kW	20472 BTU
Fan Speeds	3	3
Air Flow	270 l/s	572 CFM
Power Supply	415 VAC / 50Hz 3 Phase	415 VAC / 50Hz 3 Phase
Current Draw	12 A	12 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	295.0 Kg	649.0 lbs
Technical Manual Reference	SM408-2427	SM408-2427
Dimension (L X W X H)	1512mm X 1145 mm X 970mm	59.5in X 45.1in X 38.2in

MAINTENANCE

MONTHLY / 450 HOURS	
AS242745	RETURN AIR FILTER ASSEMBLY
ANNUAL / 5,400 HOURS	
AU531358	DRIER 5/8" MF
3 YEARS / 16,200 HOURS	
AU521509	TX VALVE 2T 3/8" IN 1/2" OUT 1/4" EQ R134A
AU523112	DUAL PRESSURE CONTROL LP AUTO HP AUTO
AU521505	TX ORIFICE 2T R22 #05
Please contact SIGMA for more information including details on an overhaul scope and interval. Maintenance periods and scope are dependent on application and site conditions, and are to be used as a guide.	

COMPANION ITEMS

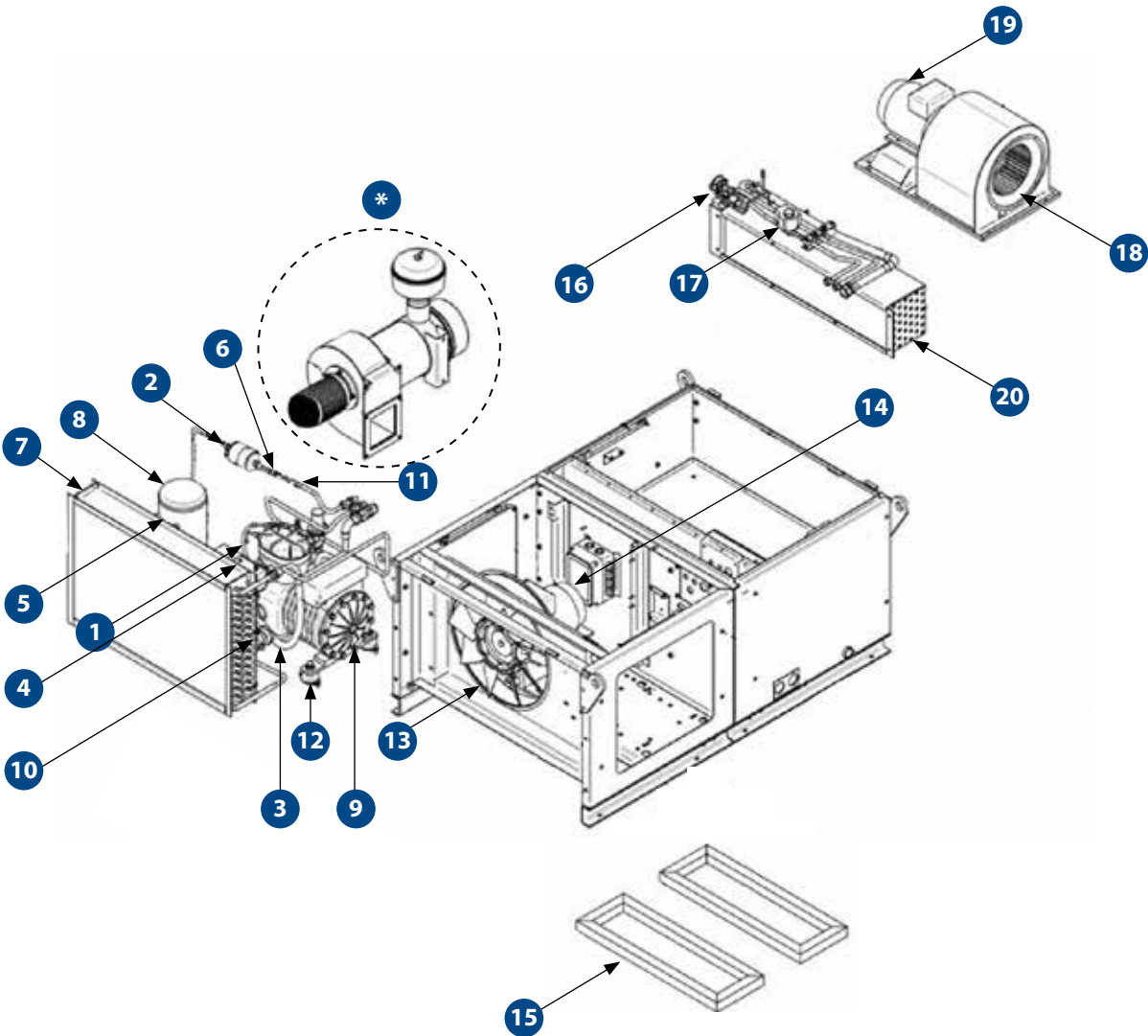
PART NO.	DESCRIPTION
FVV50M1	Pressuriser



MPR7MX1 - EVAPORATOR/ CONDENSER

ROOFTOP PACKAGED HVAC UNIT

MPR7MX1
Rooftop Packaged HVAC 7kW 415VAC with Heating (3kW)
(Gas R134a)



* SEE FVV80MR1 (PAGE 41) FOR PRESSURISER SPARE PARTS AND MAINTENANCE

SPARE PARTS

PART NO.	DESCRIPTION	QTY
1	AS160182 HP FLEXIBLE HOSE ASSEMBLY	2
2	AU531356 DRIER 1/2" MF	1
3	AS213490 DISCHARGE HOSE ASSEMBLY	1
4	AU523111 DUAL PRESSURE CONTROL LP AUTO HP MANUAL	1
5	AU527126 RELIEF VALVE 3/8" MNPT X 2.7MPa	1
6	AU533559 LMI 1/2" FF X 1/2" MF	1
7	AU110336 CONDENSER COIL 735X476X110 4RW M7	1
8	AU160009 LIQ REC 5.4L 1½ SL X 1½ ROTALOCK	1
9	AU260201 COMPRESSOR 400VAC 50Hz	1
10	H0124651 VALVE 1/4" MF 3 WAY	2
11	AU517256 PPCAV 1/2" SOLDER	2
12	UC269 ANTI VIBRATION MOUNT 1/2"-20UNF	4
13	UF125 FAN AXIAL 450MM 8 BLADES	1
14	AU310114 MOTOR 0.75KW 80 FT 4P	1
15	AU861900 SEAL SUPPLY & RETURN 600MM X 150MM ID	2
16	AU521505 TX ORIFICE 2T R22 #05	1
17	AU521509 TX VALVE 2T 3/8" IN 1/2" OUT 1/4" EQ R134A	1
18	AU522042 SOLENOID VALVE 1/2" SOLDER NC	1
19	UE453 COIL SOLENOID 110VAC	1
20	AU410130 BLOWER 250D X 242W X 19MM CW DI	1
21	UE322 MOTOR 1.1/0.37kW 90L 4/6P FT	1
22	UR524 EVAPORATOR COIL 796MM X 191MM X 165MM 8RW	1
23	AU542026 REFRIGERATION OIL	3
24	AU517501 VALVE ACCESS 1/4" 60MM SHORT TAIL	2
25	H0017184 VALVE SHUT OFF SUCTION	1
26	H0017209 GASKET DISCHARGE VALVE	1
27	H0017215 VALVE SHUT OFF DISCHARGE	1
28	H0017217 GASKET SUCTION VALVE	1
29	AU519074 ADAPTOR 134A 1/4" HIGH SIDE RED	1
30	AU519075 ADAPTOR 134A 1/4" LOW SIDE BLUE	1
31	UC310 CATCH TOGGLE OVERCENTRE SS	4
32	AS21341555 RETURN AIR FILTER ASSEMBLY (STANDARD)	1
33	AU4601006 FILTER ASSEMBLY 400MM X 185MM X 20MM (OPTIONAL)	1
34	AU460605 FILTER MEDIA	0.2
35	AU681020 THERMOSTAT T5 50°C SPST N/C AUTO	1
36	UC342 DIFFUSER 500MM X 200MM OPEN AREA DOUBLE DEFLECTION	1
37	UE470 HEATER W SHAPE 1.0kW 240VAC 200MM FIN	3
38	AU862211 SEAL RUBBER	7
39	AU872025 SHAFT EXTENSION 24MM F X 19MM M	1
40	AS213417 EVAPORATOR LID ASSEMBLY	1
41	AS213411 CONDENSER LID ASSEMBLY	1
42	UR468 UNION 1 5/16"	1
43	UR114 BULKHEAD FITTING 1-5/16" JIC	1
44	UR008 BULKHEAD FITTING 1/2" MF	1

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MPR7MX1 - EVAPORATOR / CONDENSER

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	7.0 kW	23884 BTU
Heating Capacity	3.0 kW	10236 BTU
Fan Speeds	2	2
Air Flow	320 l/s	678 CFM
Fresh Air	80 l/s	170 CFM
Power Supply	415 VAC 3Phase-50Hz	415 VAC 3Phase-50Hz
Current Draw	12 A	12 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	55°C	131°F
Packaged Weight (nominal)	454.0 Kg	998.8 lbs
Technical Manual Reference	SM277-2136	SM277-2136
Dimension (L X W X H)	1490mm X 1250 mm X 665mm	58.7in X 49.2in X 26.2in

MAINTENANCE

MONTHLY / 450 HOURS	
AS21341555	RETURN AIR FILTER ASSEMBLY (STANDARD)
AU4601006	FILTER ASSEMBLY 400MM x 185MM x 20MM (OPTIONAL)
ANNUAL / 5,400 HOURS	
AU531356	DRIER 1/2" MF
3 YEARS / 16,200 HOURS	
AS160182	HP FLEXIBLE HOSE ASSEMBLY
AS213490	DISCHARGE HOSE ASSEMBLY
AU523111	DUAL PRESSURE CONTROL LP AUTO HP MANUAL
UC269	ANTI VIBRATION MOUNT 1/2"-20UNF
AU542026	REFRIGERATION OIL
AU521505	TX ORIFICE 2T R22 #05
AU521509	TX VALVE 2T 3/8" IN 1/2" OUT 1/4" EQ R134A
AU862211	SEAL RUBBER
H0124651	HAND VALVE
H0017215	VALVE SHUT OFF DISCHARGE
H0017184	VALVE SHUT OFF SUCTION
H0017209	GASKET DISCHARGE VALVE
H0017217	GASKET SUCTION VALVE

Please contact SIGMA for more information including details on an overhaul scope and interval.
Maintenance periods and scope are dependent on application and site conditions, and are to be used as a guide.

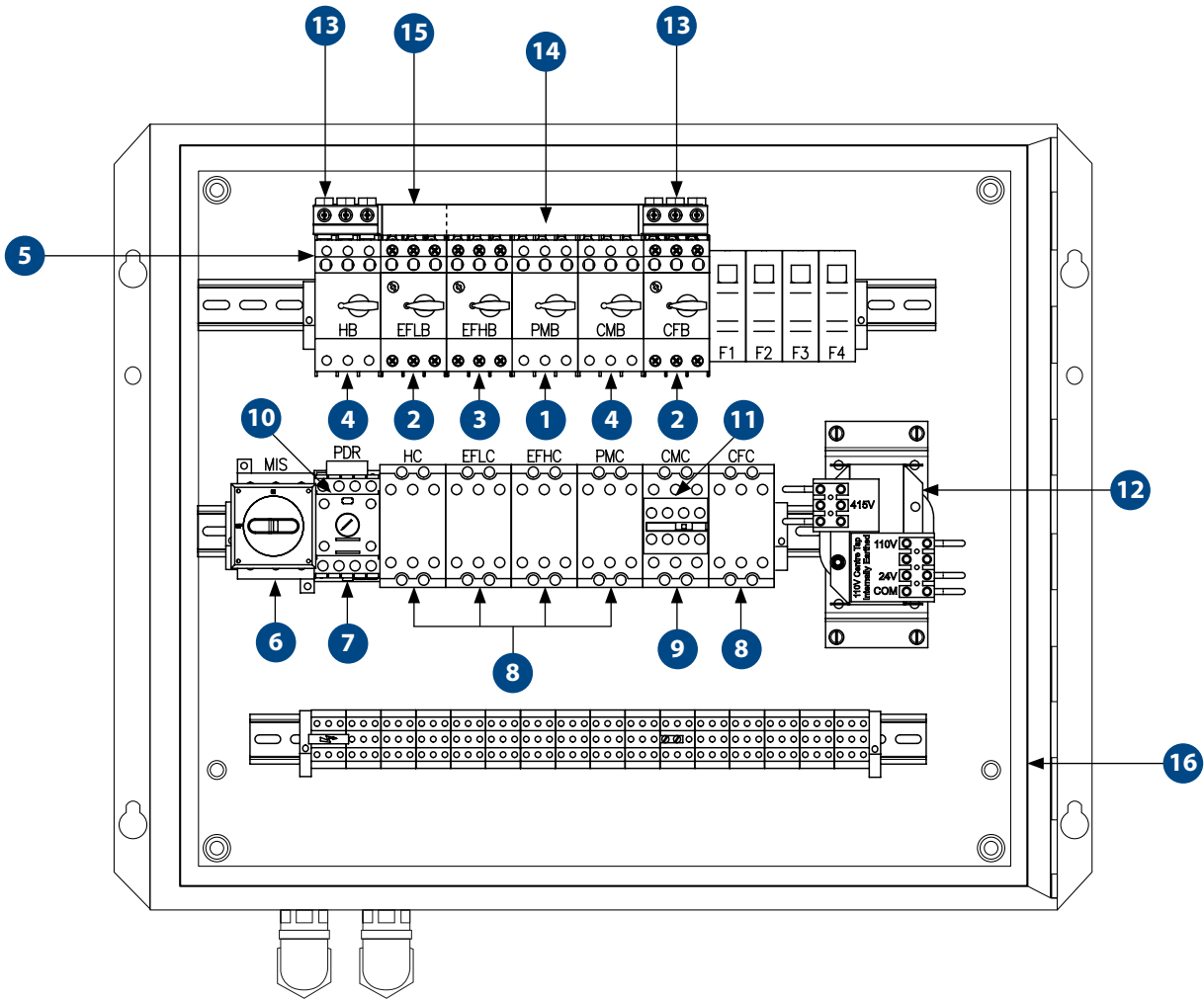
* SEE FVV80MR1 (PAGE 41) FOR PRESSURISER SPARE PARTS AND MAINTENANCE



MPR7MX1 - ELECTRICAL

ROOFTOP PACKAGED HVAC UNIT

MPR7MX1
Rooftop Packaged HVAC 7kW 415VAC with Heating (3kW)
(Gas R134a)



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU641486	CIRCUIT BREAKER 1.1-1.6A 3 POLE	1
2 AU641488	CIRCUIT BREAKER 1.8-2.5A 3 POLE	2
3 AU641490	CIRCUIT BREAKER 2.8-4.0A 3 POLE	1
4 AU641494	CIRCUIT BREAKER 7.0-10.0A 3 POLE	2
5 AU641501	CIRCUIT BREAKER AUX 1CO	6
6 AU642070	SWITCH ISOLATION ROTARY 80A	1
7 AU651035	CONTACTOR 12A 3 POLE 110VAC	1
8 AU651173	CONTACTOR 17A 110VAC 3 POLE 1NO 1NC	5
9 AU651174	CONTACTOR 25A 110VAC 3 POLE 1NO 1NC	1
10 AU653505	TIMER (3-30 SECONDS)	1
11 AU653602	AUXILIARY CONTACT 2NO 2NC	1
12 UE104	TRANSFORMER 415V 110V 24V 115W SCREEN	1
13 642E10063	BUSBAR TERMINAL	2
14 AU635609	BUSBAR 5 BREAKER 3RV	1
15 AU635610	BUSBAR 2 BREAKER 3RV	1
16 AU862211	SEAL RUBBER	2.5m

SPARE PARTS LIST CONTINUED ON PREVIOUS PAGE

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	7.0 kW	23884 BTU
Heating Capacity	3.0 kW	10236 BTU
Fan Speeds	2	2
Air Flow	320 l/s	678 CFM
Fresh Air	80 l/s	170 CFM
Power Supply	415 VAC 3Phase-50Hz	415 VAC 3Phase-50Hz
Current Draw	12 A	12 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	55°C	131°F
Packaged Weight (nominal)	454.0 Kg	998.8 lbs
Technical Manual Reference	SM277-2136	SM277-2136
Dimension (L X W X H)	1490mm X 1250 mm X 665mm	58.7in X 49.2in X 26.2in

MAINTENANCE

3 YEARS / 16,200 HOURS	
AU651035	CONTACTOR 12A 3 POLE 110VAC
AU653505	TIMER (3-30 SECONDS)
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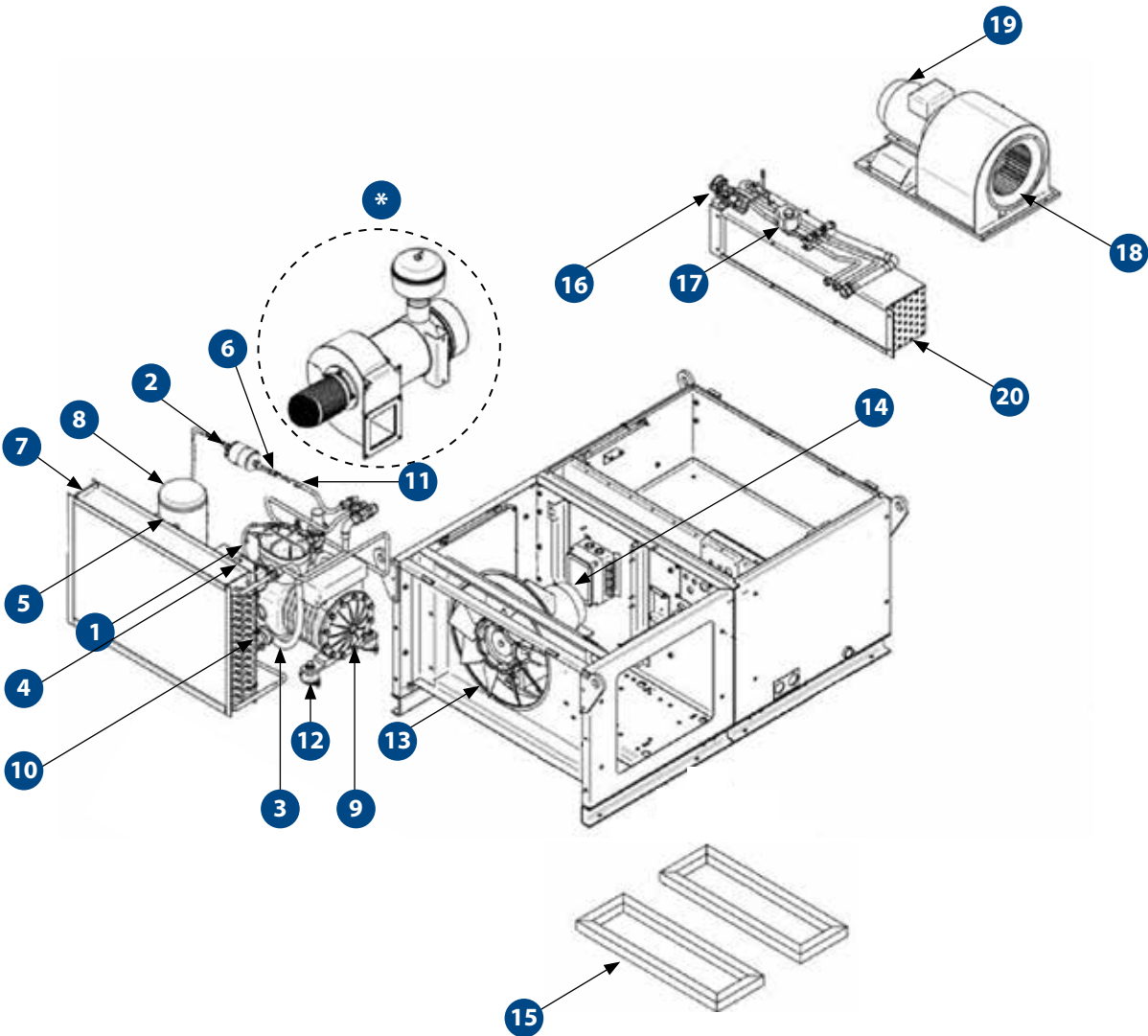
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- DRILL
- EXCAVATOR
- DOZER
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- RAIL SPECIAL VEHICLES



MPR7MZ1 - EVAPORATOR/ CONDENSER

ROOFTOP PACKAGED HVAC UNIT

MPR7MZ1
Rooftop Packaged HVAC 5kW 415VAC with Heating (3kW)
for Hi-Ambient (Gas R124)



* SEE FVV80MR1 (PAGE 41) FOR PRESSURISER SPARE PARTS AND MAINTENANCE

SPARE PARTS

PART NO.	DESCRIPTION	QTY
AS21341555	RETURN AIR FILTER ASSEMBLY (STANDARD)	1
1 AS160182	HP FLEXIBLE HOSE ASSEMBLY	2
2 AU531356	DRIER 1/2" MF	1
3 AS213490	DISCHARGE HOSE ASSEMBLY	1
4 AU523111	DUAL PRESSURE CONTROL LP AUTO HP MANUAL	1
5 AU527126	RELIEF VALVE 3/8" MNPT X 2.7MPa	1
6 AU533559	LMI 1/2" FF X 1/2" MF	1
7 AU110338	CONDENSER COIL 735MM X 476MM X 110MM	1
8 AU160009	LIQ REC 5.4L 1½ SL X 1½ ROTALOCK	1
9 AU260205	COMPRESSOR 400VAC 50Hz	1
10 AU517102	VALVE 1/4" MF 3 WAY	2
11 AU517256	PCAV 1/2" SOLDER	2
12 UC269	ANTI VIBRATION MOUNT 1/2"-20UNF	4
13 AU420157	FAN AXIAL 450MM 8 BLADES	1
14 AU319032	MOTOR 0.75KW 80 FT 4P	1
15 AU861900	SEAL SUPPLY & RETURN 600X150MM ID	2
AU521235	TX POWER ELEMENT 5' 1/4" EQ R124	1
16 AU521400	TX VALVE BODY 1/2" IN X 5/8" OUT 90 DEG	1
AU521589	TX VALVE CAGE R747	1
17 AU522042	SOLENOID VALVE 1/2" SOLDER NC	1
UE453	COIL SOLENOID 110VAC	1
18 AU410130	BLOWER 250D X 242W X 19MM CW DI	1
19 UE322	MOTOR 1.1/0.37kW 90L 4/6P FT	1
20 AU120015	EVAPORATOR COIL 796MM X 191MM X 165MM	1
AU523606	HP CONTROL AUTO	1
AU517501	VALVE ACCESS 1/4" 60MM SHORT TAIL	2
AU526030	VALVE HOT GAS BYPASS ANGLE 1/2" SOLDER	1
AS203342	HOSE ASSEMBLY SS H/P CONTROL	1
AU526036	HOT GAS MIXER NV 24MM	1
AU4601006	FILTER ASSEMBLY 400MM X 185MM X 20MM	2
AU460605	FILTER MEDIA	0.2
AU681020	THERMOSTAT T5 50°C SPST N/C AUTO	1
UC342	DIFFUSER 500MM X 200MM OPEN AREA DOUBLE DEFLECTION	1
UE470	HEATER W SHAPE 1.0kW 240VAC 200MM FIN	3
AU862211	SEAL RUBBER	2.4m
AU872025	SHAFT EXTENSION 24MM F X 19MM M	1
UC310	CATCH TOGGLE OVERCENTRE SS	4
AU542005	REFRIGERATION OIL	3
AS213417	EVAPORATOR LID ASSEMBLY	1
AS213411	CONDENSER LID ASSEMBLY	1
UR468	UNION 1 5/16"	1
UR114	BULKHEAD FITTING 1-5/16" JIC	1
UR008	BULKHEAD FITTING 1/2" MF	2
H0017215	VALVE SHUT OFF DISCHARGE	1
H0017184	VALVE SHUT OFF SUCTION	1
H0017209	GASKET DISCHARGE VALVE	1
H0017217	GASKET SUCTION VALVE	1

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MPR7MZ1 - EVAPORATOR / CONDENSER

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	5.0 kW	17060 BTU
Heating Capacity	3.0 kW	10236 BTU
Fan Speeds	2	2
Air Flow	320 l/s	678 CFM
Fresh Air	80 l/s	170 CFM
Power Supply	415 VAC 3Phase-50Hz	415 VAC 3Phase-50Hz
Current Draw	12 A	12 A
Refrigerant	R124	R124
Maximum Ambient Temperature	65°C	149°F
Packaged Weight (nominal)	454.0 Kg	998.8 lbs
Technical Manual Reference	SM277-2136	SM277-2136
Dimension (L X W X H)	1490mm X 1250 mm X 665mm	58.7in X 49.2in X 26.2in

MAINTENANCE

MONTHLY / 450 HOURS	
AS21341555	RETURN AIR FILTER ASSEMBLY (STANDARD)
AU4601006	FILTER ASSEMBLY 400MM X 185MM X 20MM
ANNUAL / 5,400 HOURS	
AU531356	DRIER 1/2" MF
3 YEARS / 16,200 HOURS	
AS160182	HP FLEXIBLE HOSE ASSEMBLY
AS213490	DISCHARGE HOSE ASSEMBLY
AU523111	DUAL PRESSURE CONTROL LP AUTO HP MANUAL
UC269	ANTI VIBRATION MOUNT 1/2"-20UNF
AU523606	HP CONTROL AUTO
AS203342	HOSE ASSEMBLY SS H/P CONTROL
AU521235	TX POWER ELEMENT 5' 1/4" EQ R124
AU521589	TX VALVE CAGE R747
AU862211	SEAL RUBBER
AU542005	REFRIGERATION OIL
AU517102	HAND VALVE
H0017215	VALVE SHUT OFF DISCHARGE
H0017184	VALVE SHUT OFF SUCTION
H0017209	GASKET DISCHARGE VALVE
H0017217	GASKET SUCTION VALVE

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* SEE FVV80MR1 (PAGE 41) FOR PRESSURISER SPARE PARTS AND MAINTENANCE

SPARE PARTS LIST CONTINUED NEXT PAGE

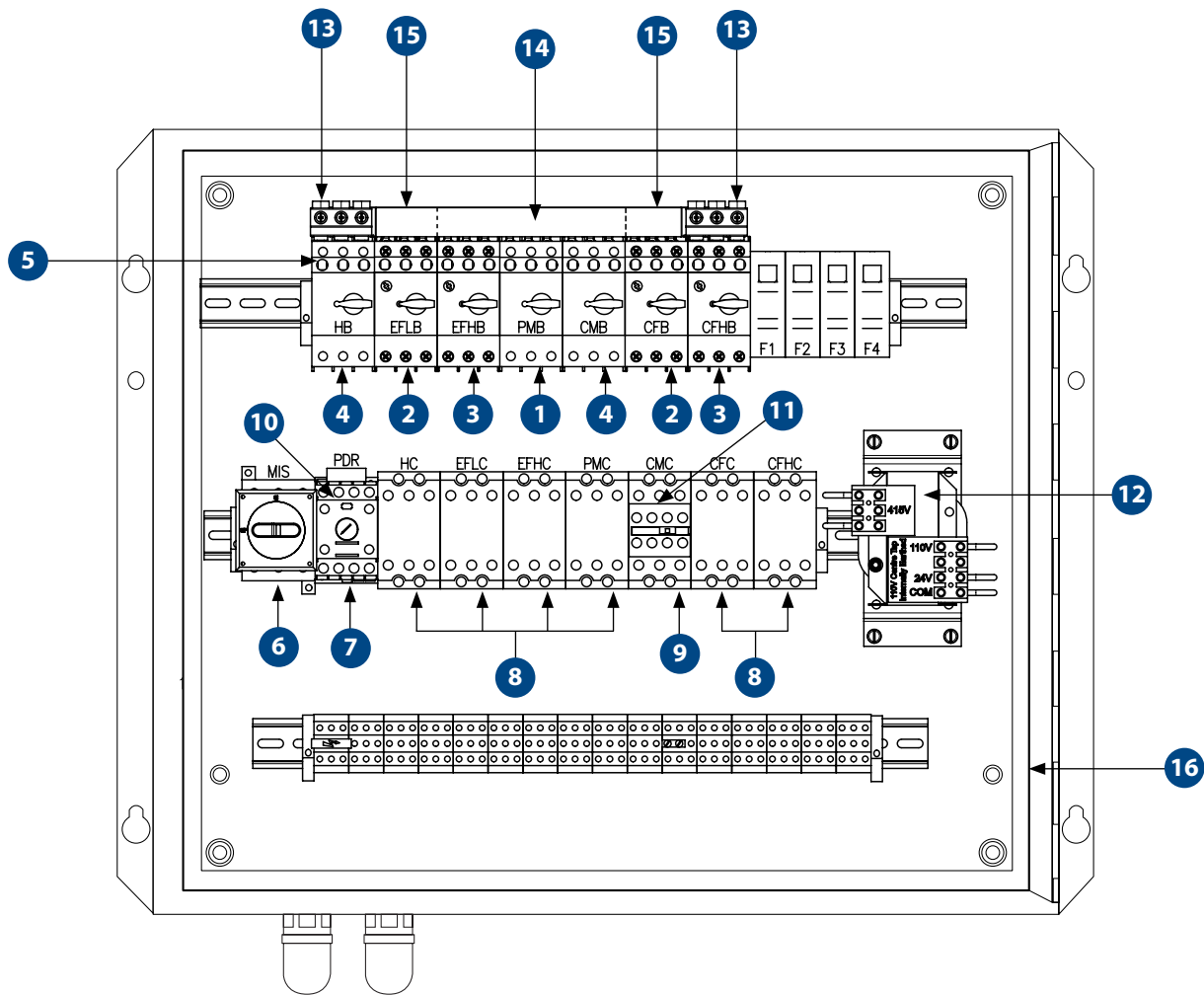
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- EXCAVATOR
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- INDUSTRIAL
- SMELTERS
- RAIL SPECIAL VEHICLES



MPR7MZ1 - ELECTRICAL

ROOFTOP PACKAGED HVAC UNIT

MPR7MZ1
Rooftop Packaged HVAC 5kW 415VAC with Heating (3kW) for Hi-Ambient (Gas R124)



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU641486	CIRCUIT BREAKER 1.1-1.6A 3 POLE	1
2 AU641488	CIRCUIT BREAKER 1.8-2.5A 3 POLE	2
3 AU641490	CIRCUIT BREAKER 2.8-4.0A 3 POLE	2
4 AU641494	CIRCUIT BREAKER 7.0-10.0A 3 POLE	2
5 AU641501	CIRCUIT BREAKER AUX 1CO	7
6 AU642070	SWITCH ISOLATION ROTARY 80A	1
7 AU651035	CONTACTOR 12A 3 POLE 110VAC	1
8 AU651173	CONTACTOR 17A 110VAC 3 POLE 1NO 1NC	6
9 AU651174	CONTACTOR 25A 110VAC 3 POLE 1NO 1NC	1
10 AU653505	TIMER (3-30 SECONDS)	1
11 AU653602	AUXILIARY CONTACT 2NO 2NC	1
12 UE104	TRANSFORMER 415V 110V 24V 115W SCREEN	1
13 642E10063	BUSBAR TERMINAL	2
14 AU635609	BUSBAR 5 BREAKER 3RV	1
15 AU635610	BUSBAR 2 BREAKER 3RV	2
16 AU862211	SEAL RUBBER	2.5m

SPARE PARTS LIST CONTINUED ON PREVIOUS PAGE

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	5.0 kW	17060 BTU
Heating Capacity	3.0 kW	10236 BTU
Fan Speeds	2	2
Air Flow	320 l/s	678 CFM
Fresh Air	80 l/s	170 CFM
Power Supply	415 VAC 3Phase-50Hz	415 VAC 3Phase-50Hz
Current Draw	12 A	12 A
Refrigerant	R124	R124
Maximum Ambient Temperature	65°C	149°F
Packaged Weight (nominal)	454.0 Kg	998.8 lbs
Technical Manual Reference	SM277-2136	SM277-2136
Dimension (L X W X H)	1490mm X 1250 mm X 665mm	58.7in X 49.2in X 26.2in

MAINTENANCE

3 YEARS / 16,200 HOURS	
AU651035	CONTACTOR 12A 3 POLE 110VAC
AU653505	TIMER (3-30 SECONDS)

Please contact SIGMA for more information including details on an overhaul scope and interval.
Maintenance periods and scope are dependent on application and site conditions, and are to be used as a guide.

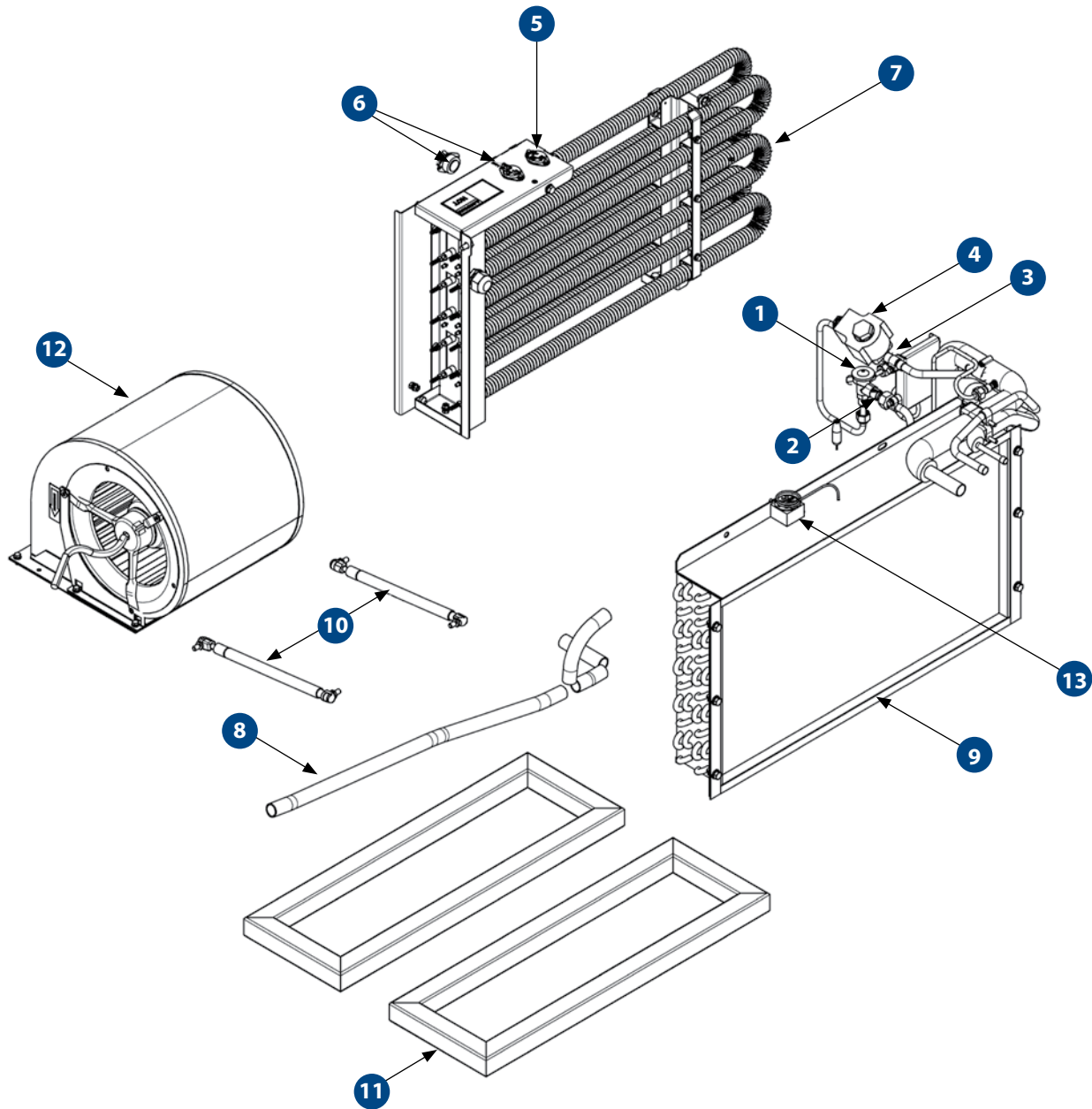
- DRAGLINE & SHOVEL
- DRILL
- EXCAVATOR
- DOZER
- TRUCK
- WHEEL LOADER
- CONSTRUCTION
- UNDERGROUND EQUIPMENT
- INDUSTRIAL
- SMELTERS
- RAIL SPECIAL VEHICLES



MPR9MX1 - EVAPORATOR

ROOFTOP PACKAGED HVAC UNIT

MPR9MX1
Rooftop Packaged HVAC 10kW 415VAC with Heating (12kW)



SPARE PARTS

PART NO.	DESCRIPTION	QTY
AS2134155S	RETURN AIR FILTER ASSEMBLY (OPTIONAL)	1
H0082092	RETURN AIR FILTER ASSEMBLY COIL MOUNT (OPTIONAL)	2
1 AU521508	TX ORIFICE #06	1
2 AU521509	TX VALVE 2T 3/8" IN 1/2" OUT 1/4" EQ R134A	1
3 AU522042	SOLENOID VALVE 1/2" SOLDER NC	1
4 AU668140	COIL SOLENOID 24VDC TYPE 1	1
5 AU681009	KLIXON TEMPERATURE SENSOR 1	1
6 AU6811013	TAT KLIXON 40°C N/C AUTO	2
7 AU691C041	HEATER ELEMENT 277V 2500W	6
8 H0064347	HOSE PVC 20MM BORE BRAIDED	1.1m
9 H0070297	EVAPORATOR COIL	1
10 H0080806	GAS STRUT	2
11 H0080812	RA/SA OPENING SEAL	2
12 H0082201	SUPPLY AIR FAN ASSEMBLY	1
13 UE016	THERMOSTAT DEICE STUD	1
KNHV30016	MPR9MX1 PIPE KIT	1
AU862211	SEAL RUBBER	4.5m

SPARE PARTS LIST CONTINUED NEXT PAGE

COMPANION ITEMS

PART NO.	DESCRIPTION
EB9P4X	*Right Hand Pressuriser Assembly 24V
H0081203	*Left Hand Pressuriser Assembly 24V EB9
H0146199	Adapter Frame Assembly
H0107836	Supply Air Damper Assembly
H0184867	Air Duct Front Panel
H0082091	RA Filter Assembly - Coil Mount MPR9
H0087360	Spigot Supply Air M9 (152-203)
H0099206	Spigot Return Air M9 (152-203)
H0099206	Supply Air Plenum Assembly
H0099206	Return Air Plenum C/W Filter

*looking from evap end of unit

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	10.0 kW	34120 BTU
Heating Capacity	12.0 kW	40944 BTU
Fan Speeds	2 (man. control) / 3 (elec. control)	2 (man. control) / 3 (elec. control)
Air Flow	610 l/s	1293 CFM
Fresh Air	22 l/s	47 CFM
Power Supply	415/460 VAC/ 3 Phase, 50/60Hz	415/460 VAC/ 3 Phase, 50/60Hz
Current Draw	30 A	30 A
Refrigerant	R134a	R134a
Minimum Ambient Temperature	-10°C	14°F
Maximum Ambient Temperature	54°C	129°F
Packaged Weight (nominal)	457.0 Kg	1005.4 lbs
Technical Manual Reference	HD0031057	HD0031057
Dimension (L X W X H)	1512mm X 1145 mm X 980mm	59.5in X 45.1in X 28.6in

MAINTENANCE

MONTHLY / 450 HOURS	
AS2134155S	RETURN AIR FILTER ASSEMBLY (OPTIONAL)
H0082092	RETURN AIR FILTER ASSEMBLY COIL MOUNT (OPTIONAL)
ANNUAL / 5,400 HOURS	
AU531356	LIQUID LINE FILTER
3 YEAR / 16,200 HOURS	
UE016	THERMOSTAT DEICE STUD
AU521509	TX VALVE 2T 3/8" IN 1/2" OUT 1/4" EQ R134A
AU521508	TX ORIFICE #06
AU862211	SEAL RUBBER

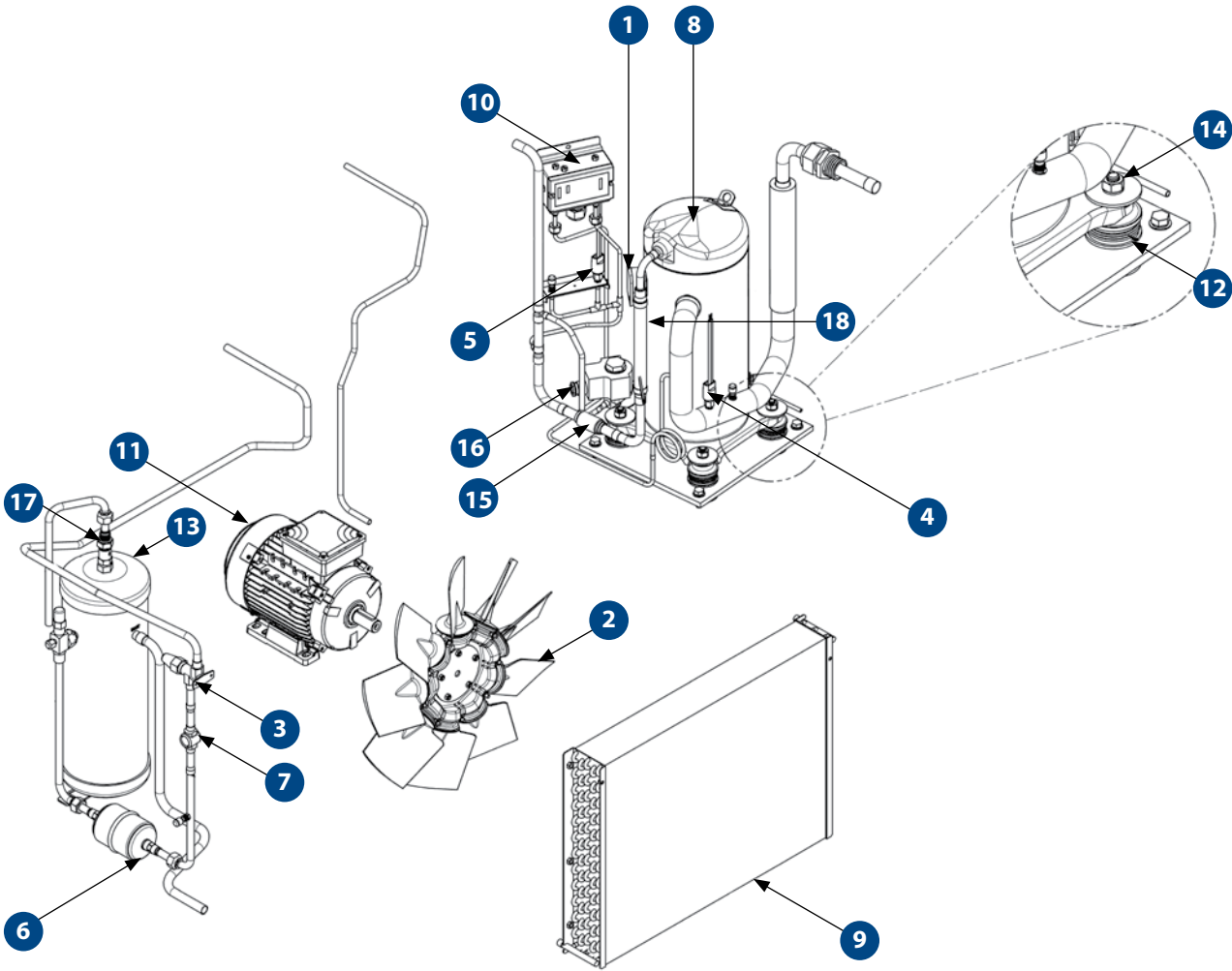
Please contact SIGMA for more information including details on an overhaul scope and interval. Maintenance periods and scope are dependent on application and site conditions, and are to be used as a guide.



MPR9MX1 - CONDENSER

ROOFTOP PACKAGED HVAC UNIT

MPR9MX1
Rooftop Packaged HVAC 10kW 415VAC with Heating (12kW)



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU230818	COMPRESSOR LEAD	1
2 AU420157	CONDENSER FAN	1
3 AU517256	PCAV 1/2 SOLDER	1
4 AU523365	LOW PRESSURE SWITCH 1/4" FF 205kPa	1
5 AU523655	HIGH PRESSURE SWITCH 1/4" FF 2415kPa	1
6 AU531356	LIQUID LINE FILTER	1
7 AU533136	LIQUID MOISTURE INDICATOR	1
8 652A20006	COMPRESSOR ASSEMBLY	1
9 H0072613	CONDENSER COIL	1
10 AU523112	DUAL PRESSURE CONTROL	1
11 H0080329	CONDENSER FAN MOTOR	1
12 H0103172	VIBRATION MOUNT	4
13 AU160C012	RECEIVER LIQUID VERT 6 X 18 MP	1
14 H0093856	COMPRESSOR SPACER WASHER	4
15 AU517622	VALVE CHECK 5/8" SOLDER STRAIGHT	1
16 AU522021 AU668140	SOLENOID VALVE 3/8" SOLDER NC COIL SOLENOID 24VDC TYPE 1	1 1
17 AU527126	RELIEF VALVE 3/8" MNPT X 2.7MPa	1
18 H0080748	VIBRATION ELIMINATOR	1
KNHV30016	MPR9MX1 PIPE KIT	1
AU542026	REFRIGERANT OIL	1

SPARE PARTS LIST CONTINUED NEXT PAGE

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	10.0 kW	34120 BTU
Heating Capacity	12.0 kW	40944 BTU
Fan Speeds	2 (man. control) / 3 (elec. control)	2 (man. control) / 3 (elec. control)
Air Flow	610 l/s	1293 CFM
Fresh Air	22 l/s	47 CFM
Power Supply	415/460 VAC/ 3 Phase, 50/60Hz	415/460 VAC/ 3 Phase, 50/60Hz
Current Draw	30 A	30 A
Refrigerant	R134a	R134a
Minimum Ambient Temperature	-10°C	14°F
Maximum Ambient Temperature	54°C	129°F
Packaged Weight (nominal)	457.0 Kg	1005.4 lbs
Technical Manual Reference	HD0031057	HD0031057
Dimension (L X W X H)	1512mm X 1145 mm X 980mm	59.5in X 45.1in X 28.6in

MAINTENANCE

ANNUAL / 5,400 HOURS

AU531356 LIQUID LINE FILTER

3 YEARS / 16,200 HOURS

- AU523365** LOW PRESSURE SWITCH 1/4" FF 205kPa
- AU523655** HIGH PRESSURE SWITCH 1/4" FF 2415kPa
- H0103172** VIBRATION MOUNT
- AU542026** REFRIGERANT OIL
- AU523112** DUAL PRESSURE CONTROL
- H0080748** VIBRATION ELIMINATOR
- AU517622** VALVE CHECK 5/8" SOLDER STRAIGHT

Please contact SIGMA for more information including details on an overhaul scope and interval. Maintenance periods and scope are dependent on application and site conditions, and are to be used as a guide.



MPR9MX1 - ELECTRICAL

ROOFTOP PACKAGED HVAC UNIT

MPR9MX1
Rooftop Packaged HVAC 10kW 415VAC with Heating (12kW)

SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 642E058	SURGE SUPPRESSOR	8
2 AU635446	END PLATE	1
3 AU641332	3A CIRCUIT BREAKER	1
4 AU641336	16A CIRCUIT BREAKER	1
5 AU641337	6A CIRCUIT BREAKER	2
6 AU651544	ABB CONTACTOR	8
7 AU661040	24V 2 POLE RELAY	5
8 AU661041	RELAY BASE	5
9 AU661044	24V 4 POLE RELAY	1
10 AU661045	RELAY BASE	1
11 AU672500	MULTIFUNCTION TIMER	2
12 AU674022	SUPPRESSOR DIODE	1
13 AU674040	25VAC VARISTOR	1
14 AU674101	SUPPRESSION FILTER	1
15 AU674401	DIODE TERMINAL BLOCK	4
16 H0082714	AUXILIARY CONTACT BLOCK	2
17 H0082715	AUXILIARY CONTACT BLOCK	4
18 H0082717	240W POWER SUPPLY	1
19 H0093336	ABB CIRCUIT BREAKER	1
20 H0100159	BUSBAR	1
21 AU641330	SHUNT TRIP	1
22 H0170133	PHASE DETECTION RELAY	1
TTP5322	MECHANICAL INTERLOCK	2
AU862211	SEAL RUBBER	2.5m

* SEE H0134546 (PAGE 183) OR H0082302 (PAGE 184)
FOR PILOT CONTROL SPARE PARTS

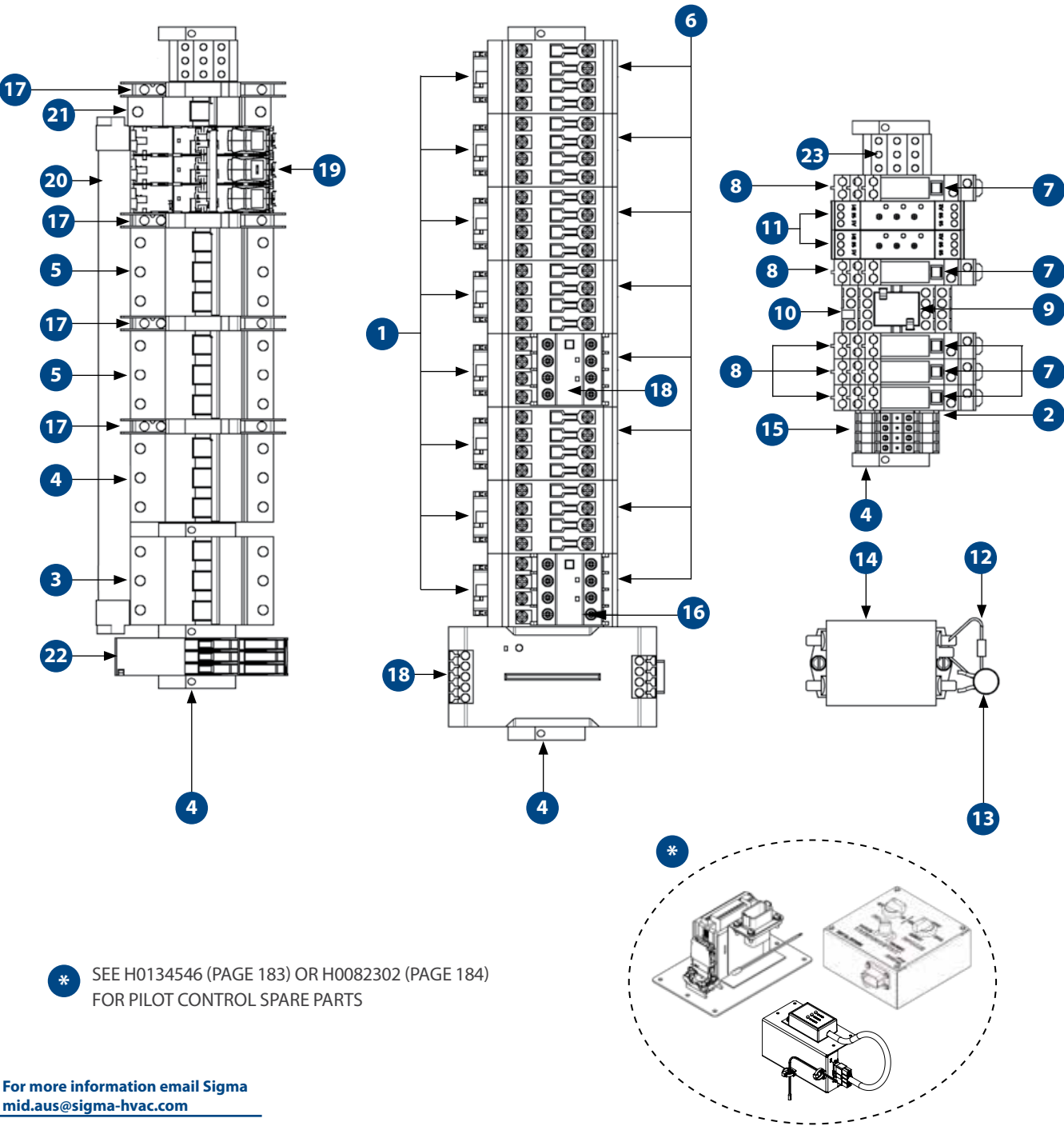
SPARE PARTS LIST CONTINUED ON PREVIOUS PAGE

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	10.0 kW	34120 BTU
Heating Capacity	12.0 kW	40944 BTU
Fan Speeds	2 (man. control) / 3 (elec. control)	2 (man. control) / 3 (elec. control)
Air Flow	610 l/s	1293 CFM
Fresh Air	22 l/s	47 CFM
Power Supply	415/460 VAC/ 3 Phase, 50/60Hz	415/460 VAC/ 3 Phase, 50/60Hz
Current Draw	30 A	30 A
Refrigerant	R134a	R134a
Minimum Ambient Temperature	-10°C	14°F
Maximum Ambient Temperature	54°C	129°F
Packaged Weight (nominal)	457.0 Kg	1005.4 lbs
Technical Manual Reference	HD0031057	HD0031057
Dimension (L X W X H)	1512mm X 1145 mm X 980mm	59.5in X 45.1in X 28.6in

COMPANION ITEMS

PART NO.	DESCRIPTION
H0134546	Manual Control Unit
H0082302	Electronic Control Unit
H0264933	Custom Operators Seat Control Option



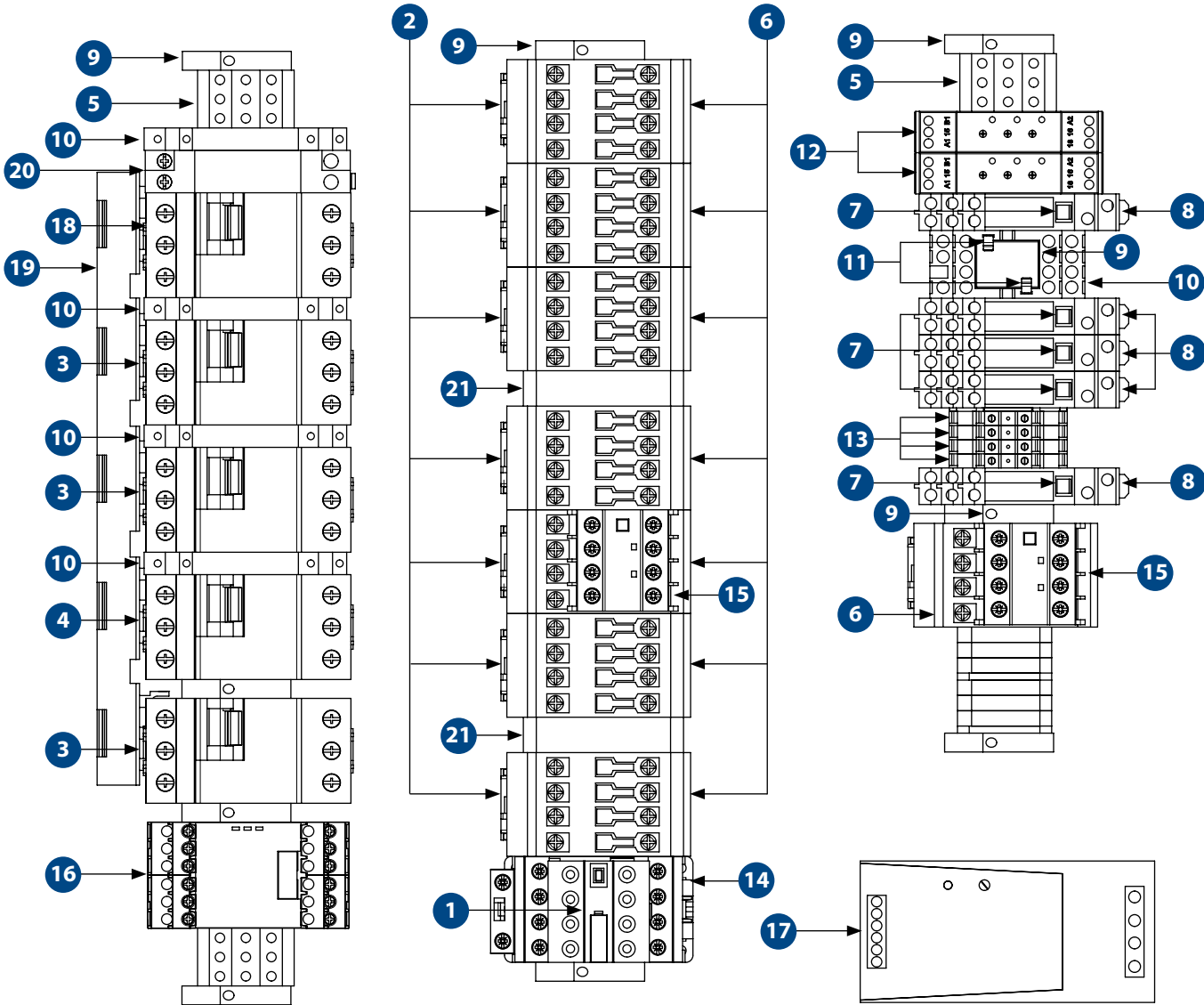
* SEE H0134546 (PAGE 183) OR H0082302 (PAGE 184)
FOR PILOT CONTROL SPARE PARTS



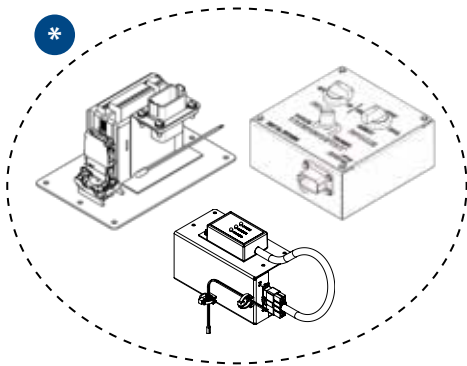
MPR9MX1 - NEW ELECTRICAL

ROOFTOP PACKAGED HVAC UNIT

MPR9MX1
Rooftop Packaged HVAC 10kW 415VAC with Heating (12kW)



* SEE H0134546 (PAGE 183) OR H0082302 (PAGE 184)
FOR PILOT CONTROL SPARE PARTS



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 642B20039	AUX. CONTACT. 2NO+2NC ABB AF CONTACTORS	1
2 642E058	SURGE SUPPRESSOR	8
3 642M076	CIRCUT BREAKER 6A	3
4 642M279	CIRCUT BREAKER 18A	1
5 AU641454	CIRCUIT BREAKER	4
6 AU651544	ABB CONTACTOR	8
7 AU661040	RELAY 8 PIN 24VDC 2 POLES	5
8 AU661041	RELAY BASE	5
9 AU661044	24V 4 POLE RELAY	1
10 AU661045	RELAY BASE	1
11 AU661046	RELAY CLIPS	2
12 AU672500	TIMER ON DELAY 24VDC 0.1SEC-100HR 1 POLE	2
13 AU674401	DIODE TERMINAL BLOCK	4
14 H0060331	CONTACTOR	1
15 H0082714	AUXILIARY CONTACT BLOCK	2
16 H0170133	PHASE DETECTION RELAY	1
17 H0222338	CONVERTER	1
18 H0222339	CIRCUIT BREAKER	1
19 H0222341	SIDE MOUNTED BUSBAR	1
20 H0236005	SHUNT TRIP, 380-400VAC 50HZ	1
21 TTP5322	MECHANICAL INTERLOCK	2
AU862211	SEAL RUBBER	2.5m

* SEE H0134546 (PAGE 183) OR H0082302 (PAGE 184)
FOR PILOT CONTROL SPARE PARTS

SPARE PARTS LIST CONTINUED ON PREVIOUS PAGE

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	10.0 kW	34120 BTU
Heating Capacity	12.0 kW	40944 BTU
Fan Speeds	2 (man. control) / 3 (elec. control)	2 (man. control) / 3 (elec. control)
Air Flow	610 l/s	1293 CFM
Fresh Air	22 l/s	47 CFM
Power Supply	415/460 VAC/ 3 Phase, 50/60Hz	415/460 VAC/ 3 Phase, 50/60Hz
Current Draw	30 A	30 A
Refrigerant	R134a	R134a
Minimum Ambient Temperature	-10°C	14°F
Maximum Ambient Temperature	54°C	129°F
Packaged Weight (nominal)	457.0 Kg	1005.4 lbs
Technical Manual Reference	HD0031057	HD0031057
Dimension (L X W X H)	1512mm X 1145 mm X 980mm	59.5in X 45.1in X 28.6in

COMPANION ITEMS

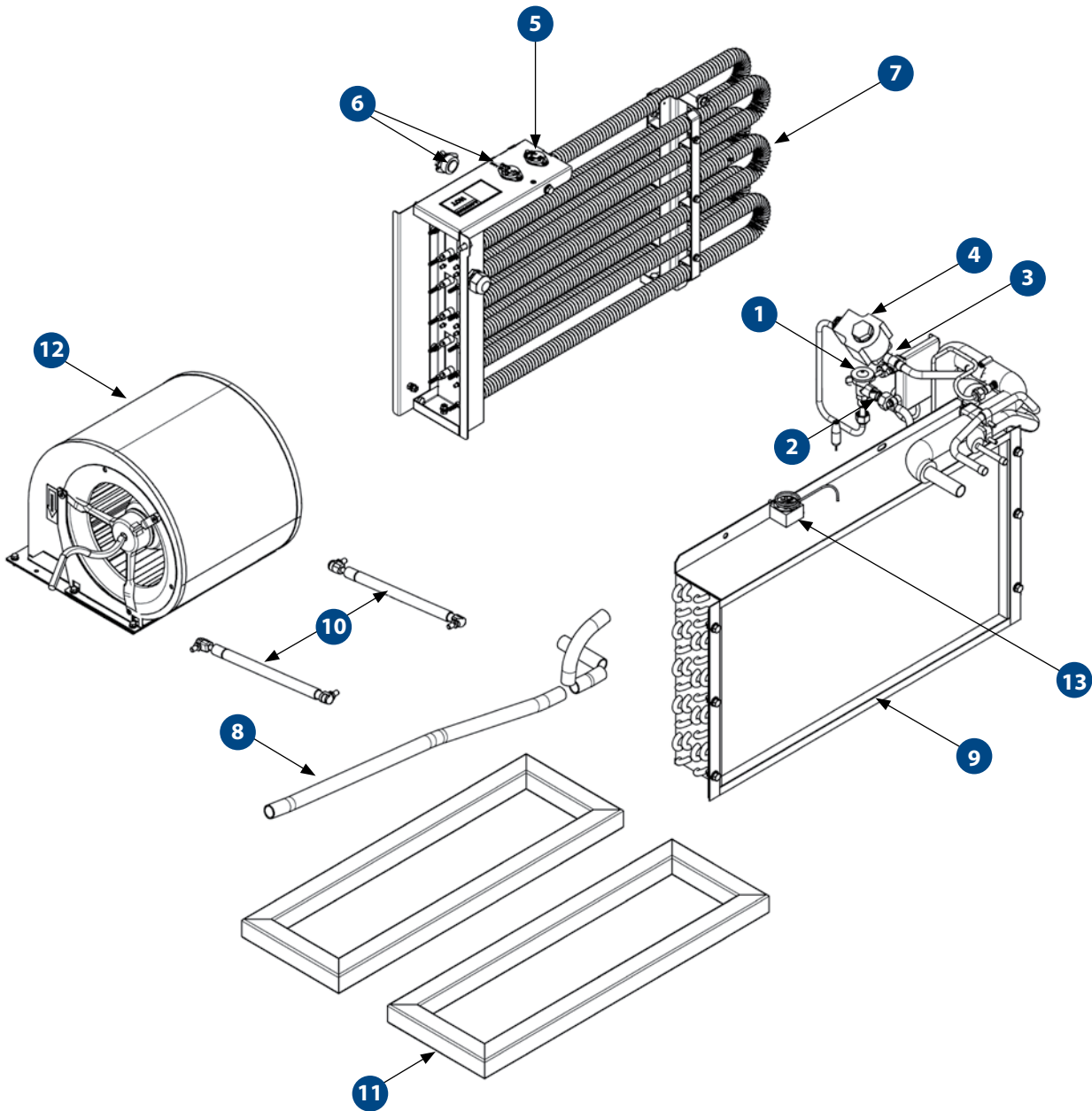
PART NO.	DESCRIPTION
H0134546	Manual Control Unit
H0082302	Electronic Control Unit
H0264933	Custom Operators Seat Control Option



MPR9VX1 - EVAPORATOR

ROOFTOP PACKAGED HVAC UNIT

MPR9VX1
Rooftop Packaged HVAC 10kW 575VAC with Heating (12kW)



SPARE PARTS

PART NO.	DESCRIPTION	QTY
AS2134155S	RETURN AIR FILTER ASSEMBLY (OPTIONAL)	1
H0082092	RETURN AIR FILTER ASSEMBLY COIL MOUNT (OPTIONAL)	2
1 AU521508	TX ORIFICE #06	1
2 AU521509	TX VALVE 2T 3/8" IN 1/2" OUT 1/4" EQ R134A	1
3 AU522042	SOLENOID VALVE 1/2" SOLDER NC	1
4 AU668140	COIL SOLENOID 24VDC TYPE 1	1
5 AU681009	KLIXON TEMPERATURE SENSOR 1	1
6 AU6811013	TAT KLIXON 40°C N/C AUTO	2
7 AU691C041	HEATER ELEMENT 277V 2500W	6
8 H0064347	HOSE PVC 20MM BORE BRAIDED	1.1m
9 H0070297	EVAPORATOR COIL	1
10 H0080806	GAS STRUT	2
11 H0080812	RA/SA OPENING SEAL	2
12 H0082201	SUPPLY AIR FAN ASSEMBLY	1
13 UE016	THERMOSTAT DEICE STUD	1
KNHV30016	MPR9MX1 PIPE KIT	1
AU862211	SEAL RUBBER	4.5m

SPARE PARTS LIST CONTINUED NEXT PAGE

COMPANION ITEMS

PART NO.	DESCRIPTION
EB9P4X	*Right Hand Pressuriser Assembly 24V
H0081203	*Left Hand Pressuriser Assembly 24V EB9
H0146199	Adapter Frame Assembly
H0107836	Supply Air Damper Assembly
H0184867	Air Duct Front Panel
H0082091	RA Filter Assembly - Coil Mount MPR9
H0087360	Spigot Supply Air M9 (152-203)
H0099206	Spigot Return Air M9 (152-203)
H0099206	Supply Air Plenum Assembly
H0099206	Return Air Plenum C/W Filter

*looking from evap end of unit

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	10.0 kW	34120 BTU
Heating Capacity	15.0 kW	51182 BTU
Fan Speeds	2 (man. control) / 3 (elec. control)	2 (man. control) / 3 (elec. control)
Air Flow	610 l/s	1293 CFM
Fresh Air	22 l/s	47 CFM
Power Supply	415/460 VAC/ 3 Phase, 50/60Hz	415/460 VAC/ 3 Phase, 50/60Hz
Current Draw	30 A	30 A
Refrigerant	R134a	R134a
Minimum Ambient Temperature	-10°C	14°F
Maximum Ambient Temperature	54°C	129°F
Packaged Weight (nominal)	457.0 Kg	1005.4 lbs
Technical Manual Reference	HD0031057	HD0031057
Dimension (L X W X H)	1512mm X 1145 mm X 980mm	59.5in X 45.1in X 28.6in

MAINTENANCE

MONTHLY / 450 HOURS	
AS2134155S	RETURN AIR FILTER ASSEMBLY (OPTIONAL)
H0082092	RETURN AIR FILTER ASSEMBLY COIL MOUNT (OPTIONAL)
ANNUAL / 5,400 HOURS	
AU531356	LIQUID LINE FILTER
3 YEAR / 16,200 HOURS	
UE016	THERMOSTAT DEICE STUD
AU521509	TX VALVE 2T 3/8" IN 1/2" OUT 1/4" EQ R134A
AU521508	TX ORIFICE #06
AU862211	SEAL RUBBER

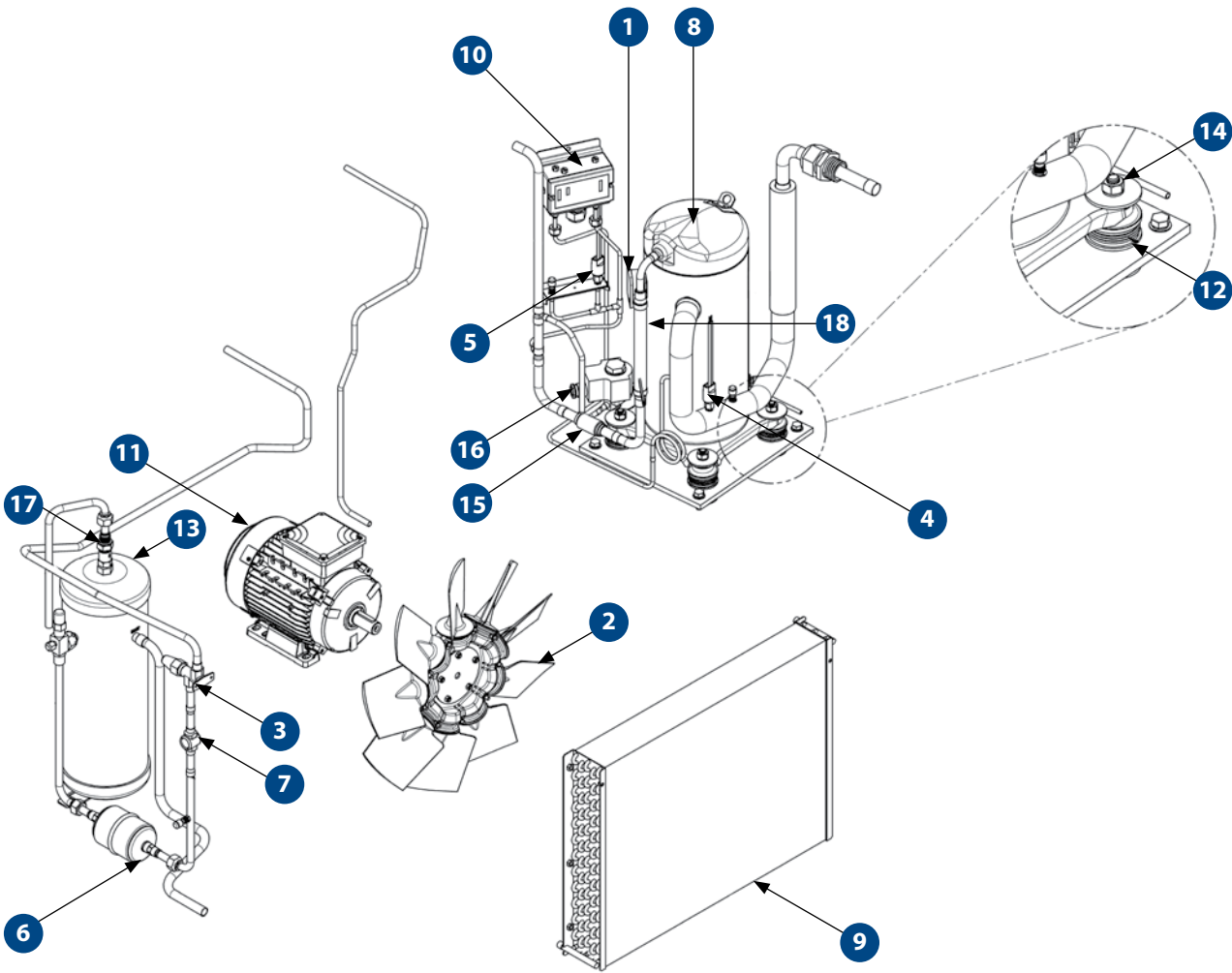
Please contact SIGMA for more information including details on an overhaul scope and interval. Maintenance periods and scope are dependent on application and site conditions, and are to be used as a guide.



MPR9VX1 - CONDENSER

ROOFTOP PACKAGED HVAC UNIT

MPR9VX1
Rooftop Packaged HVAC 10kW 575VAC with Heating (12kW)



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU230818	COMPRESSOR LEAD	1
2 AU420157	CONDENSER FAN	1
3 AU517256	PCAV 1/2 SOLDER	1
4 AU523365	LOW PRESSURE SWITCH 1/4" FF 205kPa	1
5 AU523655	HIGH PRESSURE SWITCH 1/4" FF 2415kPa	1
6 AU531356	LIQUID LINE FILTER	1
7 AU533136	LIQUID MOISTURE INDICATOR	1
8 652A20006	COMPRESSOR ASSEMBLY	1
9 H0072613	CONDENSER COIL	1
10 AU523112	DUAL PRESSURE CONTROL	1
11 H0080329	CONDENSER FAN MOTOR	1
12 H0103172	VIBRATION MOUNT	4
13 AU160C012	RECEIVER LIQUID VERT 6 X 18 MP	1
14 H0093856	COMPRESSOR SPACER WASHER	4
15 AU517622	VALVE CHECK 5/8" SOLDER STRAIGHT	1
16 AU522021 AU668140	SOLENOID VALVE 3/8" SOLDER NC COIL SOLENOID 24VDC TYPE 1	1 1
17 AU527126	RELIEF VALVE 3/8" MNPT X 2.7MPa	1
18 H0080748	VIBRATION ELIMINATOR	1
KNHV30016	MPR9MX1 PIPE KIT	1
AU542026	REFRIGERANT OIL	1

SPARE PARTS LIST CONTINUED NEXT PAGE

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	10.0 kW	34120 BTU
Heating Capacity	15.0 kW	51182 BTU
Fan Speeds	2 (man. control) / 3 (elec. control)	2 (man. control) / 3 (elec. control)
Air Flow	610 l/s	1293 CFM
Fresh Air	22 l/s	47 CFM
Power Supply	415/460 VAC/ 3 Phase, 50/60Hz	415/460 VAC/ 3 Phase, 50/60Hz
Current Draw	30 A	30 A
Refrigerant	R134a	R134a
Minimum Ambient Temperature	-10°C	14°F
Maximum Ambient Temperature	54°C	129°F
Packaged Weight (nominal)	457.0 Kg	1005.4 lbs
Technical Manual Reference	HD0031057	HD0031057
Dimension (L X W X H)	1512mm X 1145 mm X 980mm	59.5in X 45.1in X 28.6in

MAINTENANCE

ANNUAL / 5,400 HOURS

AU531356 LIQUID LINE FILTER

3 YEARS / 16,200 HOURS

- AU523365** LOW PRESSURE SWITCH 1/4" FF 205kPa
- AU523655** HIGH PRESSURE SWITCH 1/4" FF 2415kPa
- H0103172** VIBRATION MOUNT
- AU542026** REFRIGERANT OIL
- AU523112** DUAL PRESSURE CONTROL
- H0080748** VIBRATION ELIMINATOR
- AU517622** VALVE CHECK 5/8" SOLDER STRAIGHT

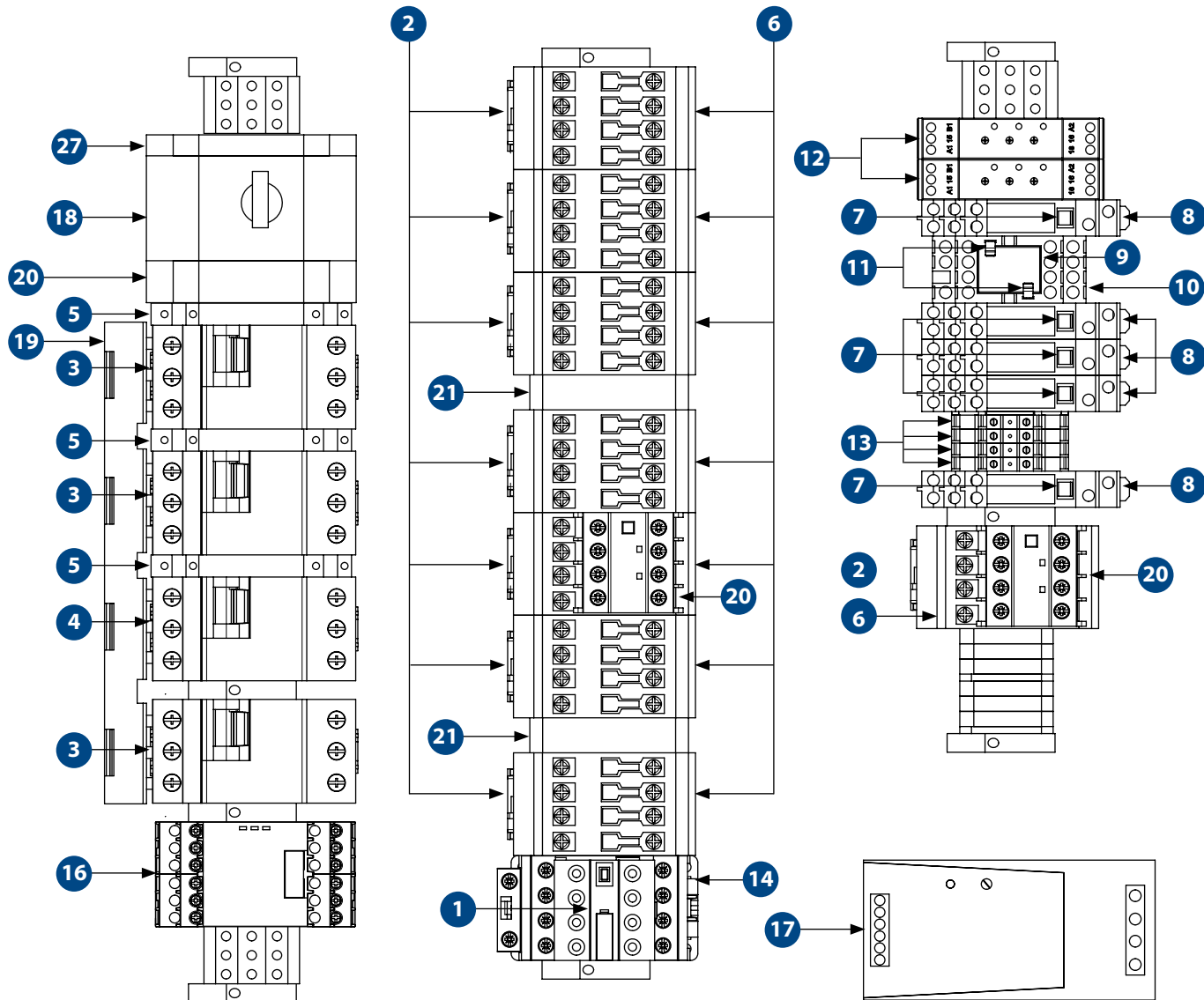
Please contact SIGMA for more information including details on an overhaul scope and interval. Maintenance periods and scope are dependent on application and site conditions, and are to be used as a guide.



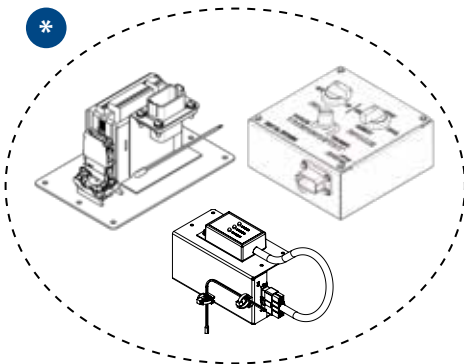
MPR9VX1 - ELECTRICAL

ROOFTOP PACKAGED HVAC UNIT

MPR9VX1
Rooftop Packaged HVAC 10kW 575VAC with Heating (12kW)



* SEE H0134546 (PAGE 183) OR H0082302 (PAGE 184)
FOR PILOT CONTROL SPARE PARTS



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 642B20039	AUX. CONTACT. 2NO+2NC ABB AF CONTACTORS	1
2 642E058	SURGE SUPPRESSOR	8
3 642M076	INT.AUTOM.TRIP 6A GV2-LE10	3
4 642M279	DISYUNTOR MAGNETOTERMICO GV2-LE20	1
5 AU641454	CIRCUIT BREAKER	4
6 AU651544	ABB CONTACTOR	8
7 AU661040	RELAY 8 PIN 24VDC 2 POLES	5
8 AU661041	RELAY BASE	5
9 AU661044	24V 4 POLE RELAY	1
10 AU661045	RELAY BASE	1
11 AU661046	RELAY CLIPS	2
12 AU672500	TIMER ON DELAY 24VDC 0.1SEC-100HR 1 POLE	2
13 AU674401	DIODE TERMINAL BLOCK	4
14 H0060331	CONTACTOR	1
15 H0082714	AUXILIARY CONTACT BLOCK	2
16 H0170133	PHASE DETECTION RELAY	1
17 H0222338	CONVERTER	1
18 H0222339	CIRCUIT BREAKER	1
19 H0222341	SIDE MOUNTED BUSBAR	1
20 H0236005	SHUNT TRIP, 380-400VAC 50HZ	1
21 TTP5322	MECHANICAL INTERLOCK	2
22 H0249472	CIRCUIT BREAKER	1
AU862211	SEAL RUBBER	2.5m

* SEE H0134546 (PAGE 183) OR H0082302 (PAGE 184)
FOR PILOT CONTROL SPARE PARTS

SPARE PARTS LIST CONTINUED ON PREVIOUS PAGE

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	10.0 kW	34120 BTU
Heating Capacity	15.0 kW	51182 BTU
Fan Speeds	2 (man. control) / 3 (elec. control)	2 (man. control) / 3 (elec. control)
Air Flow	610 l/s	1293 CFM
Fresh Air	22 l/s	47 CFM
Power Supply	415/460 VAC/ 3 Phase, 50/60Hz	415/460 VAC/ 3 Phase, 50/60Hz
Current Draw	30 A	30 A
Refrigerant	R134a	R134a
Minimum Ambient Temperature	-10°C	14°F
Maximum Ambient Temperature	54°C	129°F
Packaged Weight (nominal)	457.0 Kg	1005.4 lbs
Technical Manual Reference	HD0031057	HD0031057
Dimension (L X W X H)	1512mm X 1145 mm X 980mm	59.5in X 45.1in X 28.6in

COMPANION ITEMS

PART NO.	DESCRIPTION
H0134546	Manual Control Unit
H0082302	Electronic Control Unit
H0264933	Custom Operators Seat Control Option

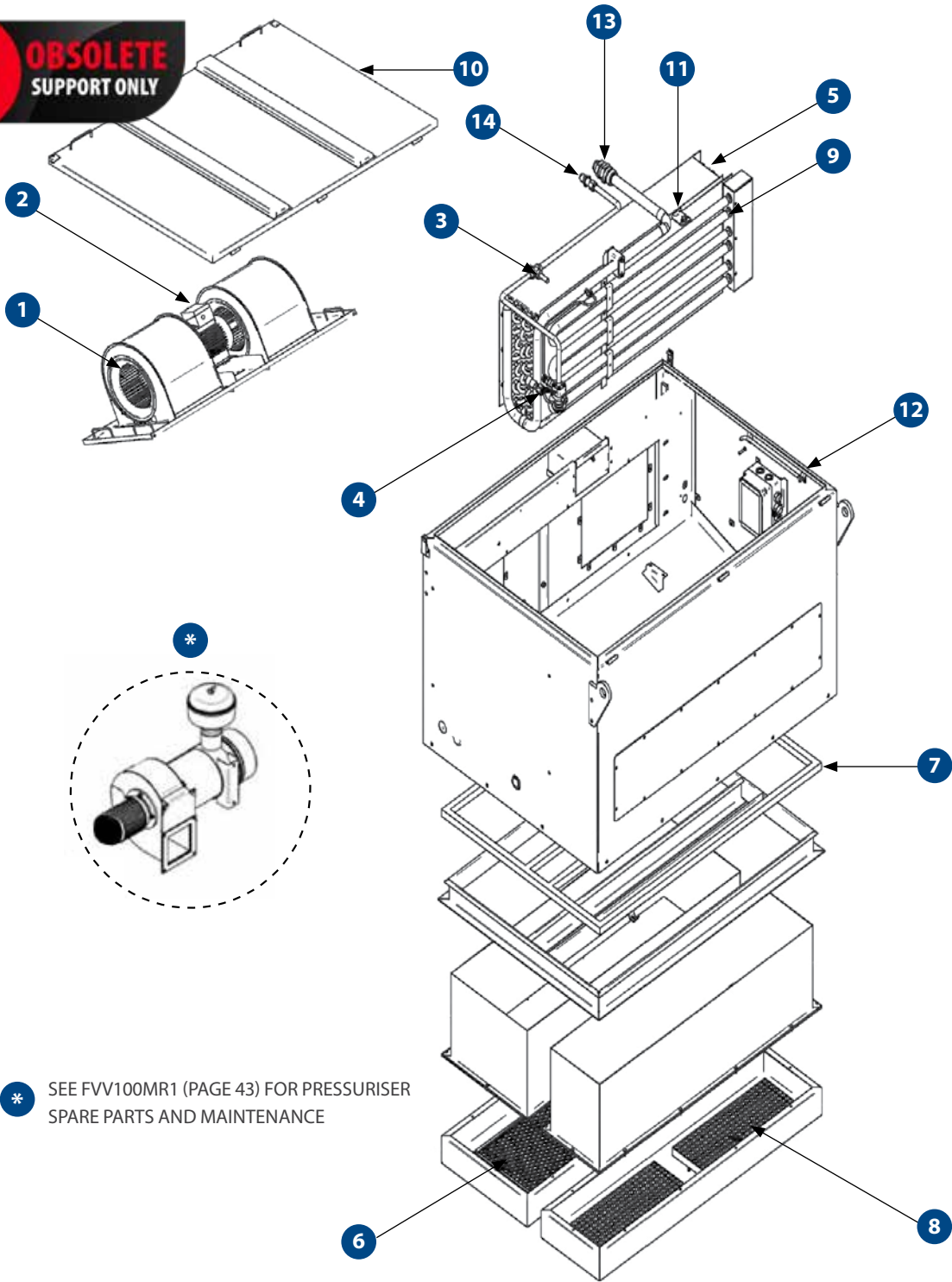


MPR15MX1 - EVAPORATOR*

ROOFTOP PACKAGED HVAC UNIT

MPR15MX1*
Rooftop Packaged HVAC 15kW 415VAC with Heating (9kW)

* HVAC obsolete, spares support only



* SEE FVV100MR1 (PAGE 43) FOR PRESSURISER SPARE PARTS AND MAINTENANCE

SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU410130	BLOWER 250D X 242W X 19MM CW DI	2
2 UE321	MOTOR 1.1/0.37kW 90L 4/6P D/S	1
AU668135	COIL SOLENOID 110VAC	1
3 AU522127	SOLENOID VALVE 200RB 5/8" SOLDER	1
AU631451	PLUG PG9 SOL COIL 240VAC 10A	1
AU521512	TX VALVE 5T ANGLE 1/2" IN 5/8" OUT R134A	1
4 AU521511	TX THERMOSTAT ELEM 5T R134A	1
UR348	TX ORIFICE #02	1
5 UR268	EVAPORATOR COIL 990MM X 318MM X 137MM 5 RW	1
6 AS503103S	RETURN AIR FILTER 477MM X 312MM M15 (STANDARD)	2
7 AU08379	ROOF SEAL	1
8 UC342	DIFFUSER 500MM X 200MM OPEN AREA DOUBLE DEFLECTION	2
9 UE272	HEATER U SHAPE 3KW 240V 975MM FIN	3
10 AS508307	EVAPORATOR LID	1
11 AU681020	HEATER OVER TEMPERATURE SWITCH	1
12 AU862211	SEAL RUBBER	5m
UR296	BULKHEAD 1 5/8" MJIC	1
13 UR302	UNION 1 5/8" FJIC X 1 1/2 SL	1
14 UR011	BULKHEAD 5/8" MF	1
AU746906	DRAIN TRAP	1

* SEE FVV100MR1 (PAGE 43) FOR PRESSURISER SPARE PARTS AND MAINTENANCE

SPARE PARTS LIST CONTINUED NEXT PAGE

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	15.0 kW	51180 BTU
Heating Capacity	9.0 kW	30708 BTU
Fan Speeds	2	2
Air Flow	800 l/s	1695 CFM
Fresh Air	100 l/s	212 CFM
Power Supply	415 VAC 3Phase-50Hz	415 VAC 3Phase-50Hz
Current Draw	27 A	27 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Packaged Weight (nominal)	685.0 Kg	1507.0 lbs
Dimension (L X W X H)	1920mm X 1670 mm X 895mm	75.6in X 65.7in X 35.2in

MAINTENANCE

MONTHLY / 450 HOURS

AS503103S RETURN AIR FILTER 477MM X 315MM M15 (STANDARD)

3 YEARS / 16,200 HOURS

AU521511 TX THERMOSTAT ELEM 5T R134A

UR348 TX ORIFICE #02

AU862211 SEAL RUBBER

Please contact SIGMA for more information including details on an overhaul scope and interval. Maintenance periods and scope are dependent on application and site conditions, and are to be used as a guide.

COMPANION ITEMS

PART NO.	DESCRIPTION
AU460866	FILTER CARTRIDGE PLEAT 505MM X 330MM X 50MM

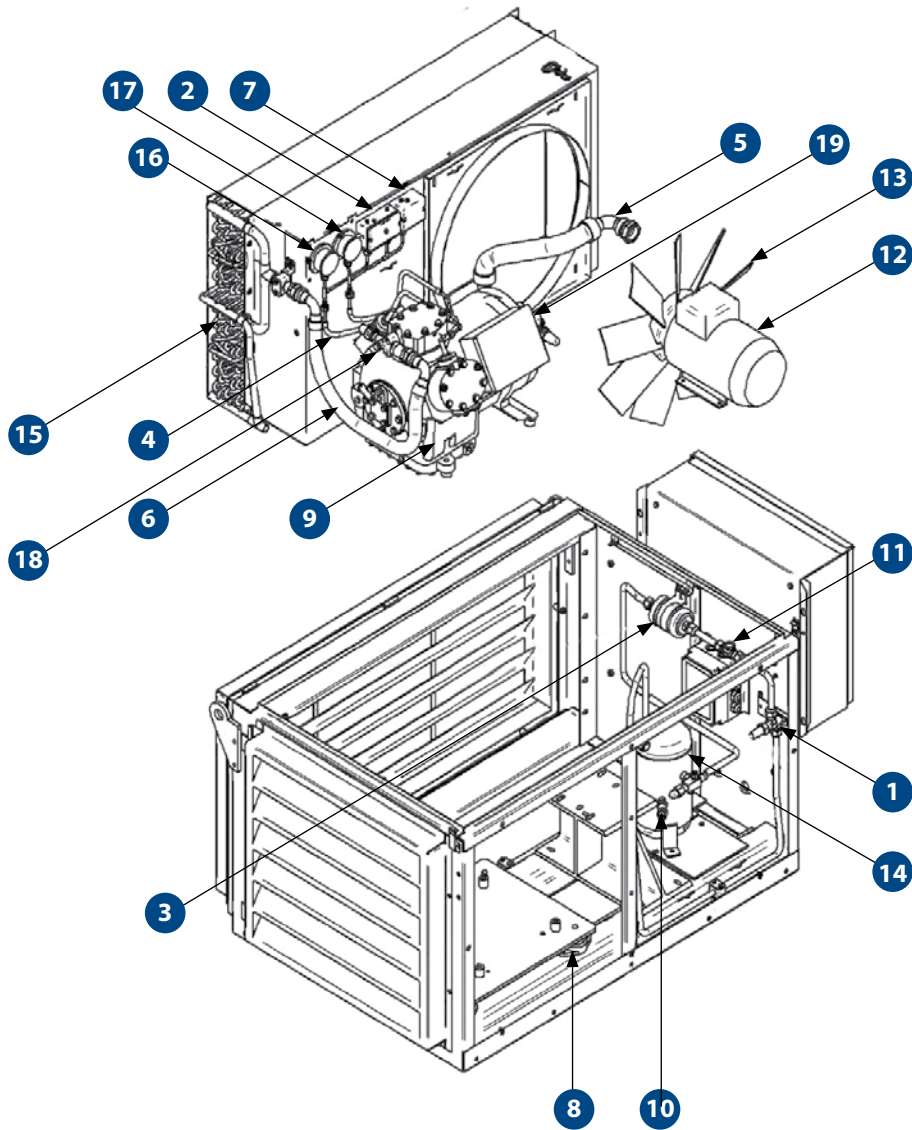


MPR15MX1 - CONDENSER*

ROOFTOP PACKAGED HVAC UNIT

MPR15MX1*
Rooftop Packaged HVAC 15kW 415VAC with Heating (9kW)

* HVAC obsolete, spares support only



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1	AU517208 PCLV 5/8" MF	1
2	AU523111 DUAL PRESSURE CONTROL LP AUTO HP MANUAL	1
3	AU531358 DRIER 5/8" MF	1
4	AS160182 HP FLEXIBLE HOSE ASSEMBLY	2
5	AS508426 SUCTION LINE HOSE	1
6	AS508432 HOSE DISCHARGE LINE	1
7	AU523606 HP CONTROL AUTO	1
8	AU845032 ANTI VIBRATION MOUNT	4
9	AU200089 COMPRESSOR WITH PRESSURE UNLOADER	1
10	AU527126 RELIEF VALVE 3/8"	1
11	AU533408 SIGHT GLASS	1
12	UE322 MOTOR 1.1/0.37kW 90L 4/6P FT	1
13	UF076 FAN AXIAL 560MM 10 BLADES	1
14	UR022 RECEIVER 330X168MM 5/8" SL X 5/8" ROTALOK	1
15	UR267 CONDENSER COIL 1135MM X 635MM X 110MM 4RW	1
16	AU532331 GAUGE 63MM R134A 100 TO 1900 kPa	1
17	AU532330 GAUGE 63MM R134A 0 TO 2500kPa	1
18	AU200105 VALVE DISCHARGE 7/8"	1
19	AU200109 VALVE DISCHARGE GASKET 7/8"	1
	AU519074 ADAPTOR 134a 1/4" HIGH SIDE RED	1
	AU519075 ADAPTOR 134a 1/4" LOW SIDE BLUE	1
	AU200079 CRANKCASE HEATER 415V 75W	1
	AS508425 LID ASSEMBLY	1
	AU542026 REFRIGERANT OIL	4.4
	AU200045 VALVE UNLOADER PRESSURE	1
	AU200061 VALVE UNLOADER ELECTRICAL	1
	AU200105 VALVE DISCHARGE 7/8"	1
	AU200109 VALVE SUCTION 1 1/8"	1
	AU200135 VALVE DISCHARGE GASKET 7/8"	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	15.0 kW	51180 BTU
Heating Capacity	9.0 kW	30708 BTU
Fan Speeds	2	2
Air Flow	800 l/s	1695 CFM
Fresh Air	100 l/s	212 CFM
Power Supply	415 VAC 3Phase-50Hz	415 VAC 3Phase-50Hz
Current Draw	27 A	27 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Packaged Weight (nominal)	685.0 Kg	1507.0 lbs
Dimension (L X W X H)	1920mm X 1670 mm X 895mm	75.6in X 65.7in X 35.2in

MAINTENANCE

ANNUAL / 5,400 HOURS	
AU531358	DRIER 5/8" MF
3 YEARS / 16,200 HOURS	
AU523111	DUAL PRESSURE CONTROL LP AUTO HP MANUAL
AS160182	HP FLEXIBLE HOSE ASSEMBLY
AS508426	SUCTION LINE HOSE
AS508432	HOSE DISCHARGE LINE
AU523606	HP CONTROL AUTO
AU845032	ANTI VIBRATION MOUNT
AS3386352	VALVE DISCHARGE WITH FITTING
AS3386351	VALVE SUCTION WITH FITTING
AU542026	REFRIGERANT OIL
Please contact SIGMA for more information including details on an overhaul scope and interval. Maintenance periods and scope are dependent on application and site conditions, and are to be used as a guide.	

SPARE PARTS LIST CONTINUED NEXT PAGE

117 For more information email Sigma
mid.aus@sigma-hvac.com

MPR15MX1 - CONDENSER

116 For more information email Sigma
mid.aus@sigma-hvac.com

MPR15MX1 - CONDENSER

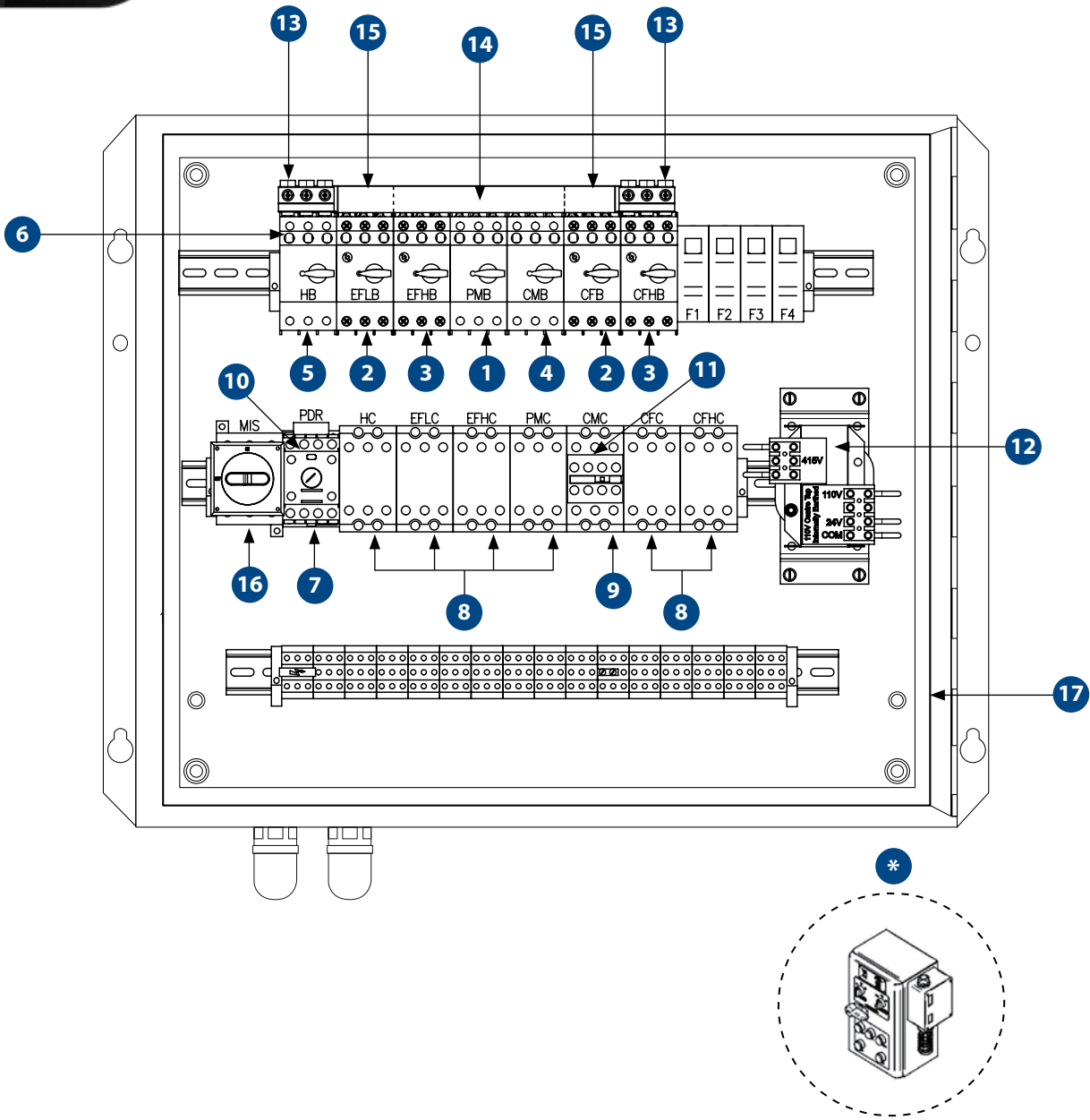


MPR15MX1 - ELECTRICAL*

ROOFTOP PACKAGED HVAC UNIT

MPR15MX1*
Rooftop Packaged HVAC 15kW 415VAC with Heating (9kW)

* HVAC obsolete, spares support only



* SEE MEWH1/MEWI1 (PAGE 182) PILOT CONTROL BOX FOR SPARE PARTS

SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU641486	CIRCUIT BREAKER 1.1-1.6A 3 POLE	1
2 AU641488	CIRCUIT BREAKER 1.8-2.5A 3 POLE	2
3 AU641490	CIRCUIT BREAKER	2
4 AU641499	CIRCUIT BREAKER 20.0-25.0A 3 POLE	1
5 AU641496	CIRCUIT BREAKER 11.0-16.0A 3 POLE	1
6 AU641501	CIRCUIT BREAKER AUX 1CO	7
7 AU651035	CONTACTOR 12A 3 POLE 110VAC	1
8 AU651173	CONTACTOR 17A 110VAC 3 POLE 1NO 1NC	6
9 AU651174	CONTACTOR 25A 110VAC	1
10 AU653505	TIMER (3-30 SECONDS))	1
11 AU653602	AUXILIARY CONTACT 2NO 2NC	1
12 UE104	TRANSFORMER 415V 110V 24V 115W SCREEN	1
13 642E10063	BUSBAR TERMINAL	2
14 AU635609	BUSBAR 5 BREAKER 3RV	1
15 AU635610	BUSBAR 2 BREAKER 3RV	2
16 AU642070	SWITCH ISOLATION ROTARY 80A	1
17 AU862211	SEAL RUBBER	2.5m
AU851556	LATCH 1/4 TURN DOUBLE WING 5MM PIN	2
AU851588	KEY DOUBLE WING 5MM PIN SUIT AU851556	1

* SEE MEWH1/MEWI1 (PAGE 182) PILOT CONTROL BOX FOR SPARE PARTS

SPARE PARTS LIST CONTINUED ON PREVIOUS PAGE

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	15.0 kW	51180 BTU
Heating Capacity	9.0 kW	30708 BTU
Fan Speeds	2	2
Air Flow	800 l/s	1695 CFM
Fresh Air	100 l/s	212 CFM
Power Supply	415 VAC 3Phase-50Hz	415 VAC 3Phase-50Hz
Current Draw	27 A	27 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Packaged Weight (nominal)	685.0 Kg	1507.0 lbs
Dimension (L X W X H)	1920mm X 1670 mm X 895mm	75.6in X 65.7in X 35.2in

MAINTENANCE

3 YEARS / 16,200 HOURS

AU653505 TIMER (3-30 SECONDS)

AU651035 CONTACTOR 12A 3 POLE 110VAC

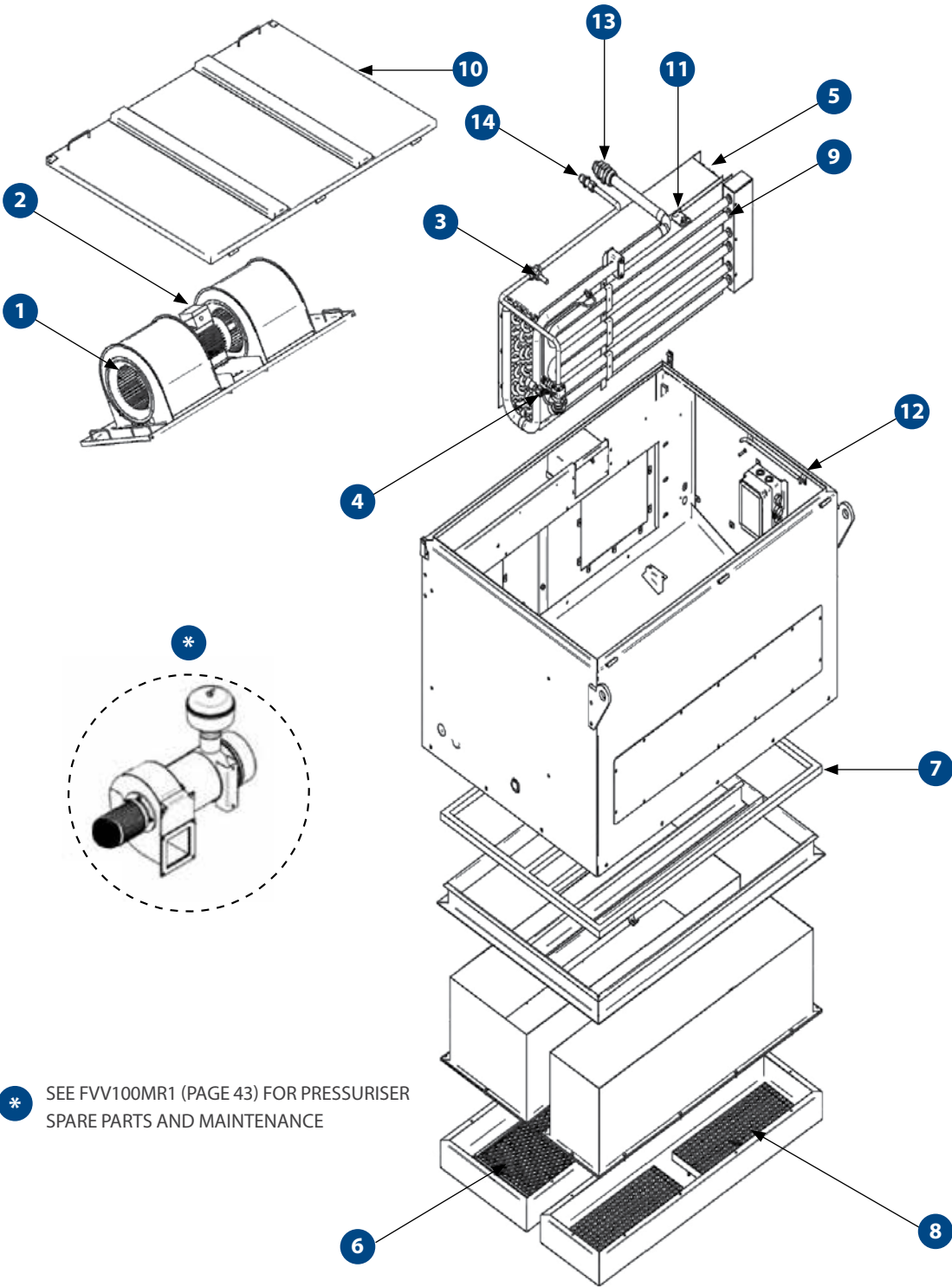
Please contact SIGMA for more information including details on an overhaul scope and interval.
Maintenance periods and scope are dependent on application and site conditions, and are to be used as a guide.



MPR20MX1 - EVAPORATOR

ROOFTOP PACKAGED HVAC UNIT

MPR20MX1
Rooftop Packaged HVAC 20kW 415VAC with Heating (9kW)



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU410130	BLOWER 250D X 242W X 19MM CW DI	2
2 UE321	MOTOR 1.1/0.37kW 90L 4/6P D/S	1
AU668135	COIL SOLENOID 110VAC	1
3 AU522127	SOLENOID VALVE 200RB 5/8" SOLDER	1
AU631451	PLUG PG9 SOL COIL 240VAC 10A	1
AU521512	TX VALVE 5T ANGLE 1/2" IN 5/8" OUT R134A	1
4 AU521511	TX THERMOSTAT ELEM 5T R134A	1
AU521515	TX ORIFICE 5T R134a #04	1
5 AU120484	EVAPORATOR COIL 990 X 318 X 137 5 RW M20	1
6 AS503103S	RETURN AIR FILTER 477MM X 312MM M15 (STANDARD)	2
7 AU08379	ROOF SEAL	1
8 UC342	DIFFUSER 500MM X 200MM OPEN AREA DOUBLE DEFLECTION	2
9 UE272	HEATER U SHAPE 3KW 240V 975MM FIN	3
10 AS508307	EVAPORATOR LID	1
11 AU681020	HEATER OVER TEMPERATURE SWITCH	1
12 AU862211	SEAL RUBBER	5m
13 UR296	BULKHEAD 1 5/8" MJIC	1
UR302	UNION 1 5/8" FJIC X 1 1/2 SL	1
14 UR011	BULKHEAD 5/8" MF	1
AU746906	DRAIN TRAP	1

* SEE FVV100MR1 (PAGE 43) FOR PRESSURISER SPARE PARTS AND MAINTENANCE

SPARE PARTS LIST CONTINUED NEXT PAGE

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	20.0 kW	68240 BTU
Heating Capacity	9.0 kW	30708 BTU
Fan Speeds	2	2
Air Flow	900 l/s	1907 CFM
Fresh Air	100 l/s	212 CFM
Power Supply	415 VAC 3Phase-50Hz	415 VAC 3Phase-50Hz
Current Draw	33 A	33 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Packaged Weight (nominal)	760.0 Kg	1672.0 lbs
Dimension (L X W X H)	1920mm X 1670 mm X 895mm	75.6in X 65.7in X 35.2in

MAINTENANCE

MONTHLY / 450 HOURS

AS503103S RETURN AIR FILTER 477MM X 312MM M15

3 YEARS / 16,200 HOURS

AU521511 TX THERMOSTAT ELEM 5T R134A

AU521515 TX ORIFICE 5T R134A #04

AU862211 SEAL RUBBER

Please contact SIGMA for more information including details on an overhaul scope and interval. Maintenance periods and scope are dependent on application and site conditions, and are to be used as a guide.

COMPANION ITEMS

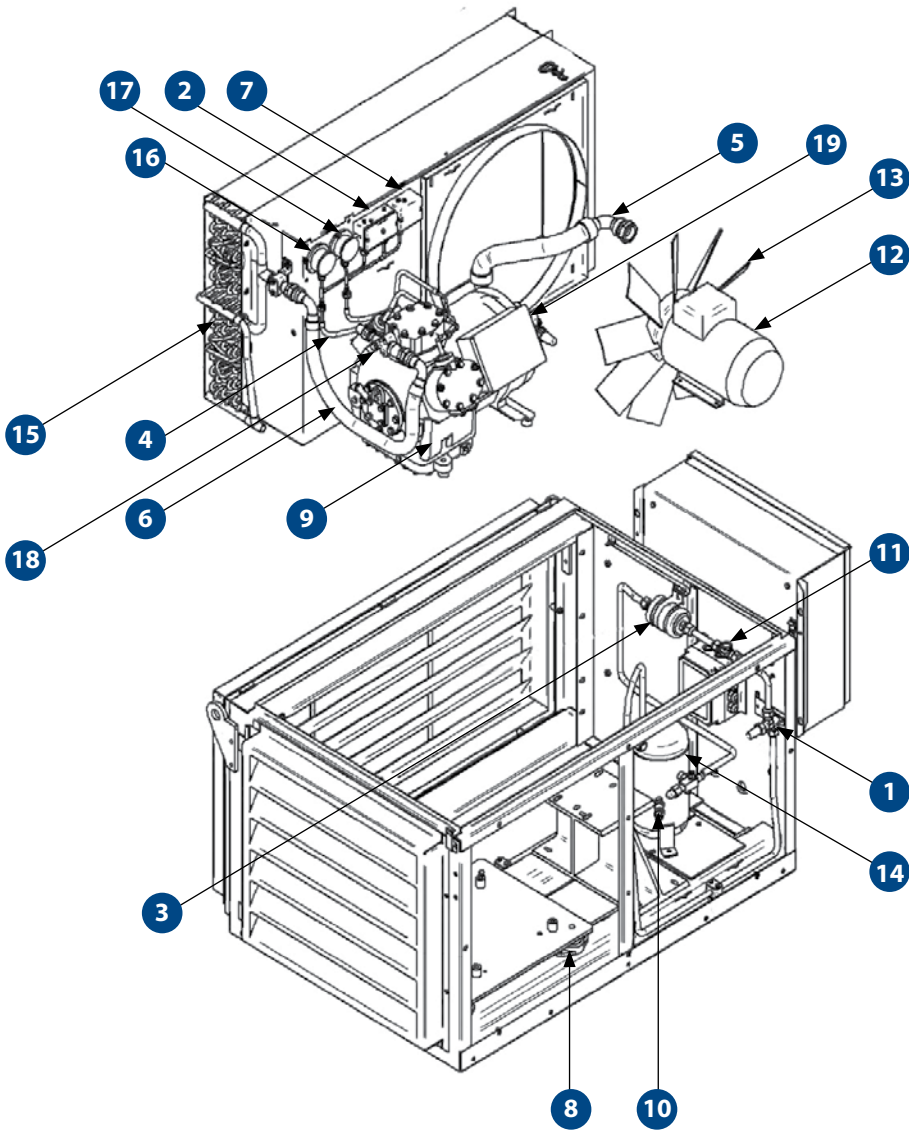
PART NO.	DESCRIPTION
AU460866	FILTER CARTRIDGE PLEAT 505MM X 330MM X 50MM (OPTIONAL)



MPR20MX1 - CONDENSER

ROOFTOP PACKAGED HVAC UNIT

MPR20MX1
Rooftop Packaged HVAC 20kW 415VAC with Heating (9kW)



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU517208	PCLV 5/8" MF	1
2 AU523111	DUAL PRESSURE CONTROL LP AUTO HP MANUAL	1
3 AU531358	DRIER 5/8" MF	1
4 AS160182	HP FLEXIBLE HOSE ASSEMBLY	2
5 AS508426	SUCTION LINE HOSE	1
6 AS508432	HOSE DISCHARGE LINE	1
7 AU523606	HP CONTROL AUTO	1
8 AU845032	ANTI VIBRATION MOUNT	4
9 AU200014	COMPRESSOR WITH 2 ELECTRIC UNLOADER	1
10 AU527126	RELIEF VALVE 3/8"	1
11 AU533408	SIGHT GLASS	1
12 AU319037	MOTOR 1.85/0.55KW 100L 4/6P	1
13 AU420277	FAN AXIAL 560MM 9 BLADES	1
14 UR022	RECEIVER 330 X 168MM 5/8" SL X 5/8" ROTALOK	1
15 AU110428	CONDENSER COIL 1135MM X 635MM X 138MM	1
16 AU532331	GAUGE 63MM R134A 100 TO 1900 kPa	1
17 AU532330	GAUGE 63MM R134A 0 TO 2500kPa	1
18 AS3386352	VALVE DISCHARGE WITH FITTING	1
19 AS3386351	VALVE SUCTION WITH FITTING	1
AU517507	VALVE ACCESS 1/4"	1
AU200045	VALVE UNLOADER PRESSURE	1
AU200079	CRANKCASE HEATER 415V 75W	1
AU519074	ADAPTOR 134A 1/4" HIGH SIDE RED	1
AU519075	ADAPTOR 134A 1/4" LOW SIDE BLUE	1
AS508425	LID ASSEMBLY	1
AU542026	REFRIGERANT OIL	4.4
AU200045	VALVE UNLOADER PRESSURE	1
AU200061	VALVE UNLOADER ELECTRICAL	1

SPARE PARTS LIST CONTINUED NEXT PAGE

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	20.0 kW	68240 BTU
Heating Capacity	9.0 kW	30708 BTU
Fan Speeds	2	2
Air Flow	900 l/s	1907 CFM
Fresh Air	100 l/s	212 CFM
Power Supply	415 VAC 3Phase-50Hz	415 VAC 3Phase-50Hz
Current Draw	33 A	33 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Packaged Weight (nominal)	760.0 Kg	1672.0 lbs
Dimension (L X W X H)	1920mm X 1670 mm X 895mm	75.6in X 65.7in X 35.2in

MAINTENANCE

ANNUAL / 5,400 HOURS	
AU531358	DRIER 5/8" MF
3 YEARS / 16,200 HOURS	
AU523111	DUAL PRESSURE CONTROL LP AUTO HP MANUAL
AS160182	HP FLEXIBLE HOSE ASSEMBLY
AS508426	SUCTION LINE HOSE
AS508432	HOSE DISCHARGE LINE
AU523606	HP CONTROL AUTO
AU845032	ANTI VIBRATION MOUNT
AS3386352	VALVE DISCHARGE WITH FITTING
AS3386351	VALVE SUCTION WITH FITTING
AU542026	REFRIGERANT OIL

Please contact SIGMA for more information including details on an overhaul scope and interval.
Maintenance periods and scope are dependent on application and site conditions, and are to be used as a guide.

COMPANION ITEMS

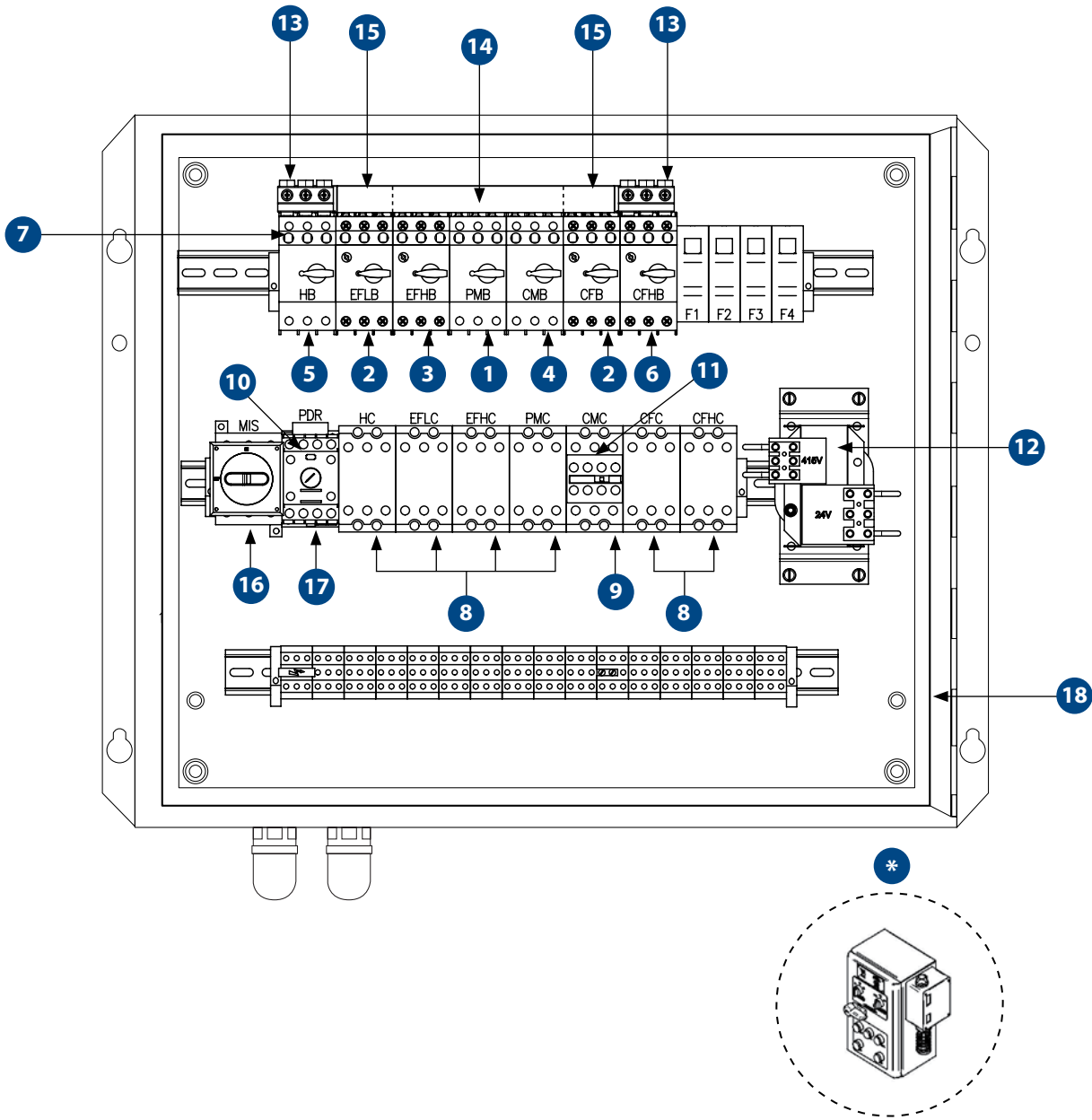
PART NO.	DESCRIPTION
FVV100MR1	Pressuriser



MPR20MX1 - ELECTRICAL

ROOFTOP PACKAGED HVAC UNIT

MPR20MX1
Rooftop Packaged HVAC 20kW 415VAC with Heating (9kW)



* SEE MEWH1/MEWI1 (PAGE 182) PILOT CONTROL BOX FOR SPARE PARTS

SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU641486	1.1-1.6A 3 POLE	1
2 AU641488	CIRCUIT BREAKER 1.8-2.5A 3 POLE	2
3 AU641490	CIRCUIT BREAKER 2.8-4.0A 3 POLE	1
4 AU641499	CIRCUIT BREAKER 20.0-25.0A 3 POLE	1
5 AU641496	CIRCUIT BREAKER 11.0-16.0A 3 POLE	1
6 AU641492	CIRCUIT BREAKER 4.5-6.3A 3 POLE	1
7 AU641501	CIRCUIT BREAKER AUX 1CO	7
8 AU651151	CONTACTOR 17A 24VAC 3 POLE 1NO 1NC	6
9 AU651178	CONTACTOR 25A 24VAC	1
10 AU653505	TIMER (3-30 SECONDS)	6
11 AU653602	AUXILIARY CONTACT 2NO 2NC	1
12 AU666089	TRANSFORMER 415V 24V 140VA 115W	1
13 642E10063	BUSBAR TERMINAL	2
14 AU635609	BUSBAR 5 BREAKER 3RV	1
15 AU635610	BUSBAR 2 BREAKER 3RV	2
16 AU642070	SWITCH ISOLATION ROTARY 80A	1
17 AU651056	CONTACTOR 12A 3 POLE 24VAC 1NC	1
18 AU862211	SEAL RUBBER	2.5m
AU851556	LATCH 1/4 TURN DOUBLE WING 5MM PIN	2
AU851588	KEY DOUBLE WING 5MM PIN SUIT AU851556	1

* SEE MEWH1/MEWI1 (PAGE 182) PILOT CONTROL BOX FOR SPARE PARTS

SPARE PARTS LIST CONTINUED ON PREVIOUS PAGE

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	20.0 kW	68240 BTU
Heating Capacity	9.0 kW	30708 BTU
Fan Speeds	2	2
Air Flow	900 l/s	1907 CFM
Fresh Air	100 l/s	212 CFM
Power Supply	415 VAC 3Phase-50Hz	415 VAC 3Phase-50Hz
Current Draw	33 A	33 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Packaged Weight (nominal)	760.0 Kg	1672.0 lbs
Dimension (L X W X H)	1920mm X 1670 mm X 895mm	75.6in X 65.7in X 35.2in

MAINTENANCE

3 YEARS / 16,200 HOURS

AU653505 TIMER (3-30 SECONDS)

AU651056 CONTACTOR 12A 3 POLE 24VAC 1NC

Please contact SIGMA for more information including details on an overhaul scope and interval.
Maintenance periods and scope are dependent on application and site conditions, and are to be used as a guide.

COMPANION ITEMS

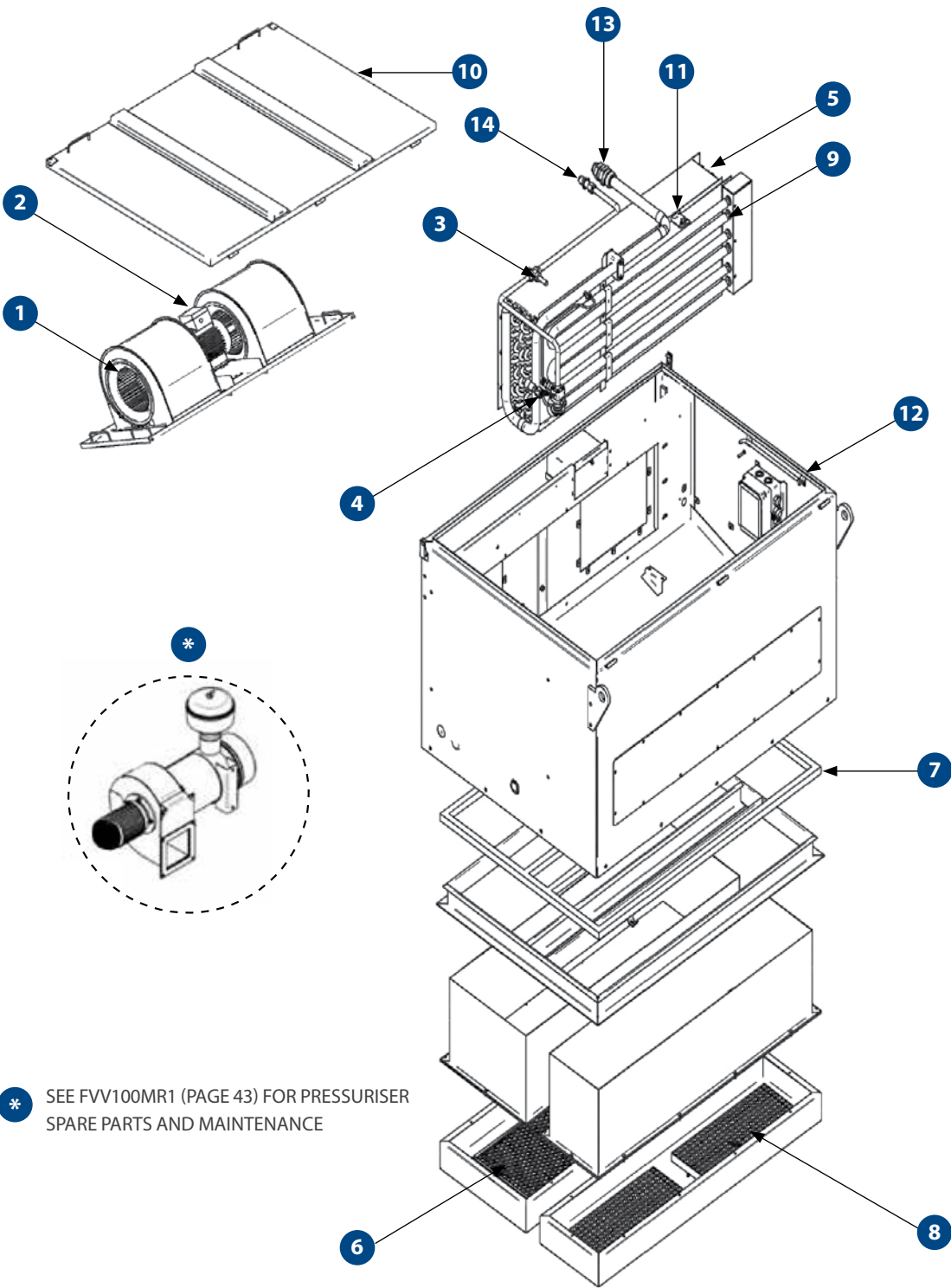
PART NO.	DESCRIPTION
FVV100MR1	Pressuriser



MPR25MX1 - EVAPORATOR

ROOFTOP PACKAGED HVAC UNIT

MPR25MX1
Rooftop Packaged HVAC 25kW 415VAC with Heating (9kW)



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU410130	BLOWER 250D X 242W X 19MM CW DI	2
2 UE321	MOTOR 1.1/0.37kW 90L 4/6P D/S	1
AU668134	COIL SOLENOID VALVE	1
3 AU522127	SOLENOID VALVE 200RB 5/8" SOLDER	1
AU631451	PLUG PG9 SOL COIL 240VAC 10A	1
AU521512	TX VALVE 5T ANGLE 1/2" IN 5/8" OUT R134A	1
4 AU521511	TX THERMOSTAT ELEM 5T R134A	1
AU521515	TX ORIFICE 5T R134a #04	1
5 AU120161	EVAPORATOR COIL 990MM X 318MM X 137MM 6 RW M20A	1
6 AS503103S	RETURN AIR FILTER 477MM X 312MM M15 (STANDARD)	2
7 AU08379	ROOF SEAL	1
8 UC342	DIFFUSER 500MM X 200MM OPEN AREA DOUBLE DEFLECTION	2
9 UE272	HEATER U SHAPE 3KW 240V 975MM FIN	3
10 AS508307	EVAPORATOR LID	1
11 AU681020	HEATER OVER TEMPERATURE SWITCH	1
12 AU862211	SEAL RUBBER	5m
13 UR296	BULKHEAD 1 5/8" MJIC	1
UR302	UNION 1 5/8" FJIC X 1 1/2 SL	1
14 UR011	BULKHEAD 5/8" MF	1
AU746906	DRAIN TRAP	1

SEE FVV100MR1 (PAGE 43) FOR PRESSURISER SPARE PARTS AND MAINTENANCE

SPARE PARTS LIST CONTINUED NEXT PAGE

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	25.0 kW	85300 BTU
Heating Capacity	9.0 kW	30708 BTU
Fan Speeds	2	2
Air Flow	900 l/s	1907 CFM
Fresh Air	100 l/s	212 CFM
Power Supply	415 VAC 3Phase-50Hz	415 VAC 3Phase-50Hz
Current Draw	33 A	33 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Packaged Weight (nominal)	760.0 Kg	1672.0 lbs
Technical Manual Reference	SM277-2136	SM277-2136
Dimension (L X W X H)	1920mm X 1670 mm X 895mm	75.6in X 65.7in X 35.2in

MAINTENANCE

MONTHLY / 450 HOURS

AS503103S RETURN AIR FILTER 477MM X 315MM M15

3 YEARS / 16,200 HOURS

AU521511 TX THERMOSTAT ELEM 5T R134A

AU521515 TX ORIFICE 5T R134A #04

AU862211 SEAL RUBBER

Please contact SIGMA for more information including details on an overhaul scope and interval. Maintenance periods and scope are dependent on application and site conditions, and are to be used as a guide.

COMPANION ITEMS

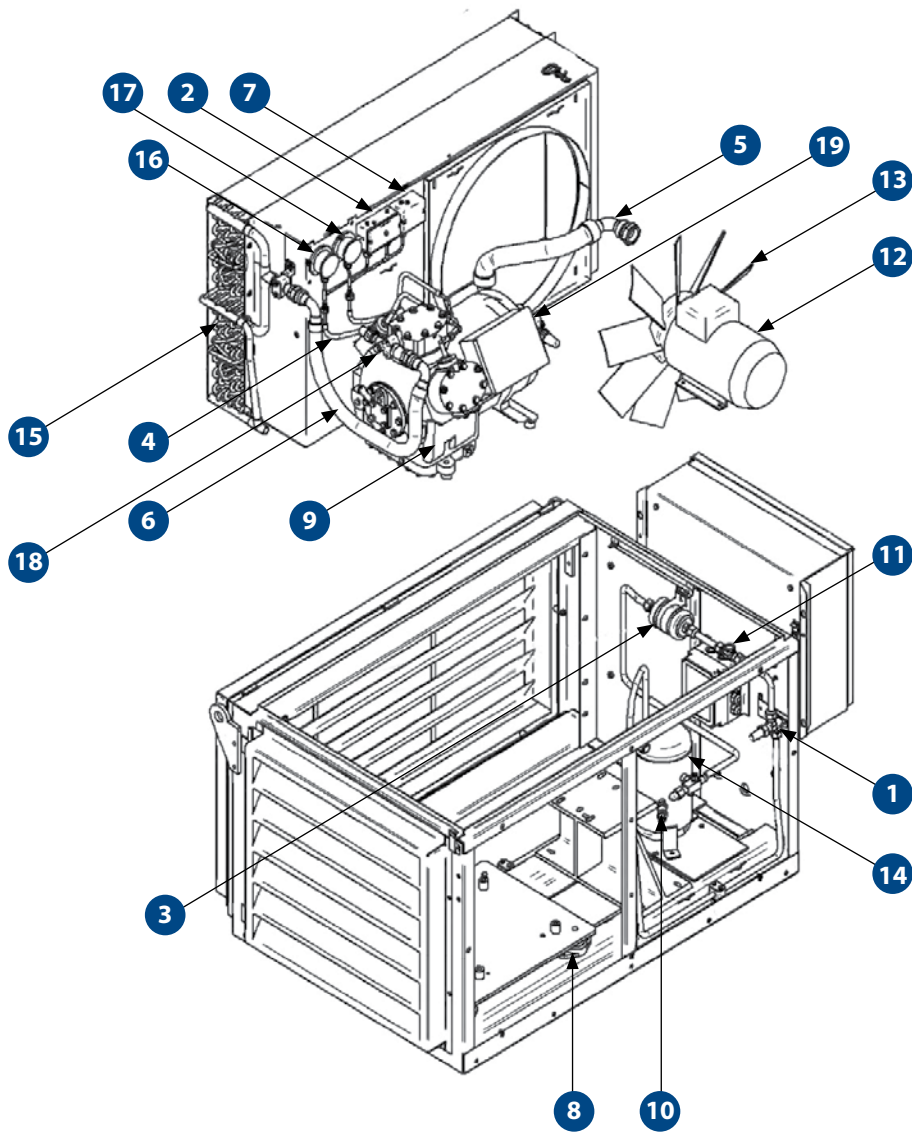
PART NO.	DESCRIPTION
AU460866	Filter Card Pleat



MPR25MX1 - CONDENSER

ROOFTOP PACKAGED HVAC UNIT

MPR25MX1
Rooftop Packaged HVAC 25kW 415VAC with Heating (9kW)



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU517208	PCLV 5/8" MF	1
2 AU523111	DUAL PRESSURE CONTROL LP AUTO HP MANUAL	1
3 AU531358	DRIER 5/8" MF	1
4 AS160182	HP FLEXIBLE HOSE ASSEMBLY	2
5 AS508426	SUCTION LINE HOSE	1
6 AS317814	HOSE DISCHARGE LINE	1
7 AU523606	HP CONTROL AUTO	1
8 AU845032	ANTI VIBRATION MOUNT	4
9 AU200014	COMPRESSOR WITH 2 ELECTRIC UNLOADER	1
10 AU527126	RELIEF VALVE 3/8"	1
11 AU533408	SIGHT GLASS	1
12 AU319037	MOTOR 1.85/0.55KW 100L 4/6P	1
13 AU420277	FAN AXIAL 560MM 9 BLADES	1
14 UR022	RECEIVER 330MM X 168MM 5/8" SL X 5/8" ROTALOK	1
15 AU110162	CONDENSER COIL 1135MM X 635MM X 132MM 6RW M25	1
16 AU532331	GAUGE 63MM R134A 100 TO 1900 kPa	1
17 AU532330	GAUGE 63MM R134A 0 TO 2500kPa	1
18 AS3386352	VALVE DISCHARGE WITH FITTING	1
19 AS3386351	VALVE SUCTION WITH FITTING	1
AU517507	VALVE ACCESS 1/4"	1
AS231075	LID ASSEMBLY LOUVRE	1
AU200079	CRANKCASE HEATER 415V 75W	1
AU517501	VALVE ACCESS 1/4" 60MM SHORT TAIL	1
AU519074	ADAPTOR 134A 1/4" HIGH SIDE RED	1
AU519075	ADAPTOR 134A 1/4" LOW SIDE BLUE	1
AU542026	REFRIGERANT OIL	4.4
AU200045	VALVE UNLOADER PRESSURE	1
AU200061	VALVE UNLOADER ELECTRICAL	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	25.0 kW	85300 BTU
Heating Capacity	9.0 kW	30708 BTU
Fan Speeds	2	2
Air Flow	900 l/s	1907 CFM
Fresh Air	100 l/s	212 CFM
Power Supply	415 VAC 3Phase-50Hz	415 VAC 3Phase-50Hz
Current Draw	33 A	33 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Packaged Weight (nominal)	760.0 Kg	1672.0 lbs
Technical Manual Reference	SM277-2136	SM277-2136
Dimension (L X W X H)	1920mm X 1670 mm X 895mm	75.6in X 65.7in X 35.2in

MAINTENANCE

ANNUAL / 5,400 HOURS	
AU531358	DRIER 5/8" MF
3 YEARS / 16,200 HOURS	
AU523111	DUAL PRESSURE CONTROL LP AUTO HP MANUAL
AS160182	HP FLEXIBLE HOSE ASSEMBLY
AS508426	SUCTION LINE HOSE
AS317814	HOSE DISCHARGE LINE
AU845032	ANTI VIBRATION MOUNT
AS3386352	VALVE DISCHARGE WITH FITTING
AS3386351	VALVE SUCTION WITH FITTING
AU542026	REFRIGERANT OIL
AU523606	HP CONTROL AUTO
Please contact SIGMA for more information including details on an overhaul scope and interval. Maintenance periods and scope are dependent on application and site conditions, and are to be used as a guide.	

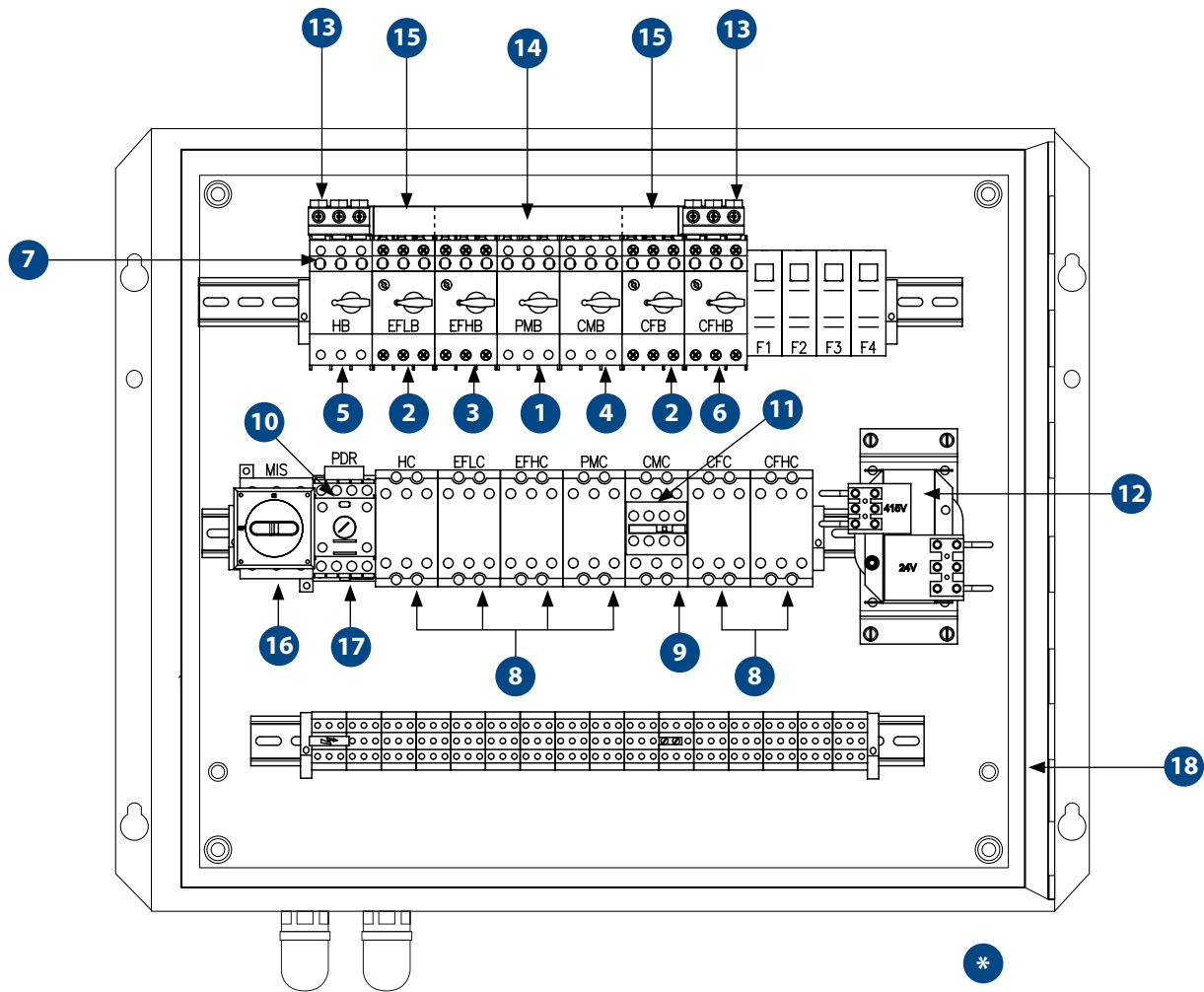
SPARE PARTS LIST CONTINUED NEXT PAGE



MPR25MX1 - ELECTRICAL

ROOFTOP PACKAGED HVAC UNIT

MPR25MX1
Rooftop Packaged HVAC 25kW 415VAC with Heating (9kW)



* SEE MEWH1/MEWI1 (PAGE 182) PILOT CONTROL BOX FOR SPARE PARTS

SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU641486	1.1-1.6A 3 POLE	1
2 AU641488	CIRCUIT BREAKER 1.8-2.5A 3 POLE	2
3 AU641490	CIRCUIT BREAKER 2.8-4.0A 3 POLE	1
4 AU641499	CIRCUIT BREAKER 20.0-25.0A 3 POLE	1
5 AU641496	CIRCUIT BREAKER 11.0-16.0A 3 POLE	1
6 AU641492	CIRCUIT BREAKER 4.5-6.3A 3 POLE	1
7 AU641501	CIRCUIT BREAKER AUX 1CO	7
8 AU651151	CONTACTOR 17A 24VAC 3 POLE 1NO 1NC	6
9 AU651178	CONTACTOR 25A 24VAC	1
10 AU653505	TIMER (3-30 SECONDS)	6
11 AU653602	AUXILIARY CONTACT 2NO 2NC	1
12 AU666089	TRANSFORMER 415V 24V 140VA 115W	1
13 642E10063	BUSBAR TERMINAL	2
14 AU635609	BUSBAR 5 BREAKER 3RV	1
15 AU635610	BUSBAR 2 BREAKER 3RV	2
16 AU642070	SWITCH ISOLATION ROTARY 80A	1
17 AU651056	CONTACTOR 12A 3 POLE 24VAC 1NC	1
18 AU862211	SEAL RUBBER	2.5m
AU851556	LATCH 1/4 TURN DOUBLE WING 5MM PIN	2
AU851588	KEY DOUBLE WING 5MM PIN SUIT AU851556	1

* SEE MEWH1/MEWI1 (PAGE 182) PILOT CONTROL BOX FOR SPARE PARTS

SPARE PARTS LIST CONTINUED ON PREVIOUS PAGE

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	25.0 kW	85300 BTU
Heating Capacity	9.0 kW	30708 BTU
Fan Speeds	2	2
Air Flow	900 l/s	1907 CFM
Fresh Air	100 l/s	212 CFM
Power Supply	415 VAC 3Phase-50Hz	415 VAC 3Phase-50Hz
Current Draw	33 A	33 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Packaged Weight (nominal)	760.0 Kg	1672.0 lbs
Technical Manual Reference	SM277-2136	SM277-2136
Dimension (L X W X H)	1920mm X 1670 mm X 895mm	75.6in X 65.7in X 35.2in

MAINTENANCE

3 YEARS / 16,200 HOURS

AU653505 TIMER (3-30 SECONDS)

AU651056 CONTACTOR 12A 3 POLE 24VAC 1NC

Please contact SIGMA for more information including details on an overhaul scope and interval.
Maintenance periods and scope are dependent on application and site conditions, and are to be used as a guide.

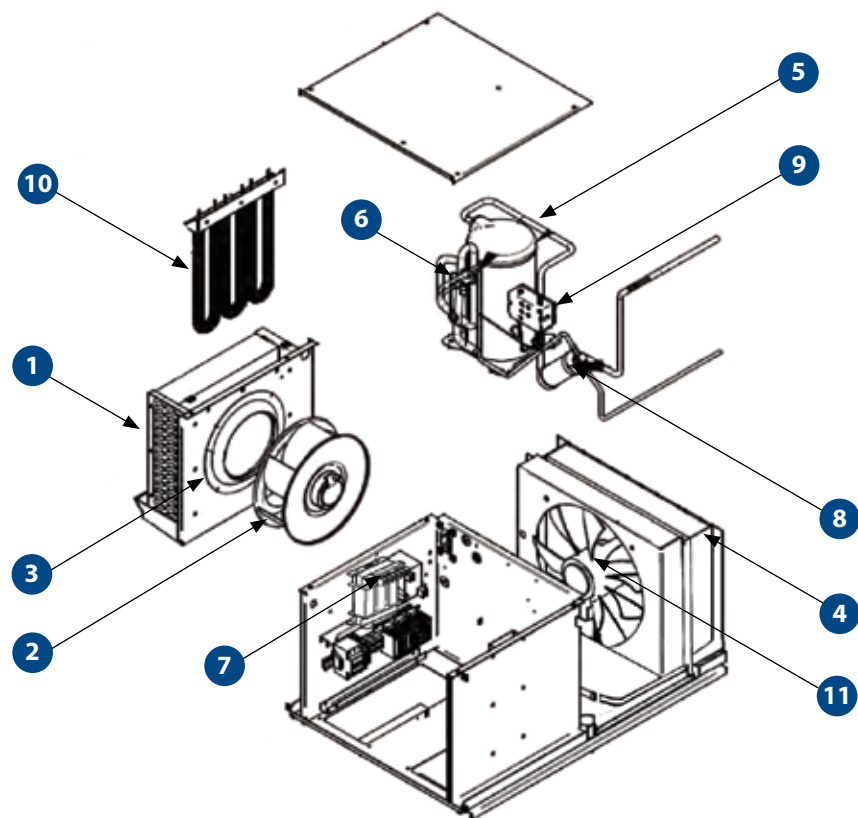


MPV5MX1*

ROOFTOP PACKAGED HVAC UNIT

MPV5MX1
Horizontal Rooftop Packaged HVAC 5kW 415VAC with Heating (3kW) Single Speed without Pressuriser

* HVAC obsolete, spares support only



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU120492	EVAPORATOR COIL 380MM X 381MM X 88MM 4 RW MPV5	1
2 AU411041	BLOWER IMPELLER 310D X 154W 415V 50HZ	1
3 AU410956	INLET RING 200MM	1
4 AU110397	CONDENSER COIL 540X381X79 5RW MPV5	1
5 AU230806	COMPRESSOR 400VAC 50HZ 460VAC 60HZ	1
6 AU521509 AU521504	TX VALVE 2T 3/8" IN 1/2" OUT 1/4EQ R134A TX ORIFICE 2T R22 #04	1 1
7 UE104	TRANSFORMER 415V/110VAC 115W SCREEN	1
8 AU531415	RECEIVER DRIER 3/8" MF 193MM HIGH	1
9 AU523112	DUAL PRESSURE CONTROL LP AUTO HP AUTO	1
10 AU691104	HEATER U SHAPE 1.0KW 240V 365MM BRS FIN	3
11 AU421019	FAN AXIAL 400MM 400VAC 50Hz	1
AS534142	RETURN AIR FILTER ASSEMBLY	1
UC151	FILTER MATT 10MM GREY G2	0.1
AU517501	VALVE ACCESS 1/4" 60MM SHORT TAIL	1
UE016	THERMOSTAT DEICE STUD	1
UE283	THERMOSTAT C28 0-100C MPV5	1
AU421020	FAN GRILLE SUIT 400MM	1
AU641003	CIRCUIT BREAKER 16A 3 POLE	1
AU641016	CIRCUIT BREAKER 2A 1 POLE	1
AU651032	CONTACTOR 9A 3 POLE 110VAC	3
AU663094	ROTARY SWITCH OFF VENT COOL HEAT	1
AU681020	THERMOSTAT T5 50°C SPST N/C AUTO	1
AU845248	ANTI VIBRATION MOUNT	4
AU821170	LOUVRE 390MM X 140MM	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	5.0 kW	17060 BTU
Heating Capacity	3.0 kW	10236 BTU
Fan Speeds	1	1
Air Flow	190 l/s	403 CFM
Fresh Air (Optional)	50 l/s	106 CFM
Power Supply	415 VAC 3Phase - 50 Hz	415 VAC 3Phase - 50 Hz
Current Draw	10 A	10 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	150.0 Kg	330.0 lbs
Technical Manual Reference	SM347-5341	SM347-5341
Dimension (L X W X H)	1000mm X 680mm X 495mm	39.4in X 26.8in X 19.5in

MAINTENANCE

MONTHLY / 450 HOURS

AS534142 RETURN AIR FILTER ASSEMBLY

ANNUAL / 5,400 HOURS

AU531415 RECEIVER DRIER 3/8" MF 193MM HIGH

3 YEARS / 16,200 HOURS

AU521509 TX VALVE 2T 3/8" IN 1/2" OUT 1/4" EQ R134A

AU521504 TX ORIFICE 2T R22 #04

AU523112 DUAL PRESSURE CONTROL LP AUTO HP AUTO

UE016 THERMOSTAT DEICE STUD

AU845248 ANTI VIBRATION MOUNT

Please contact SIGMA for more information including details on an overhaul scope and interval.
Maintenance periods and scope are dependent on application and site conditions, and are to be used as a guide.

COMPANION ITEMS

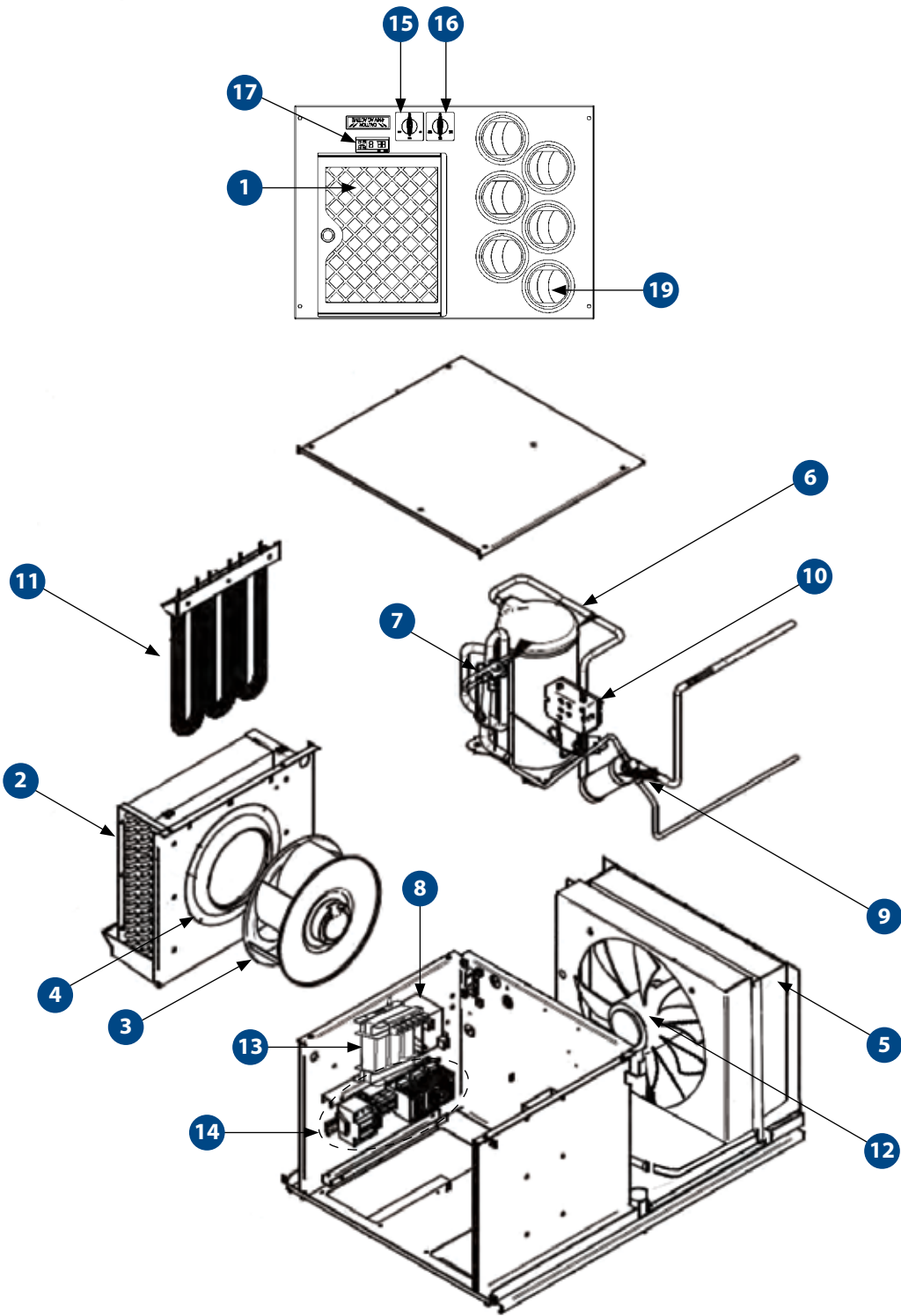
PART NO.	DESCRIPTION
FVV50M1	Fresh Air Pressuriser 50 l/s 415VAC



MPV5MX2

ROOFTOP PACKAGED HVAC UNIT

MPV5MX2
Horizontal Rooftop Packaged HVAC 5kW 415VAC with Heating (3kW) without Pressuriser



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU4601005	FILTER	1
2 AU120492	EVAPORATOR COIL 380MM X 381MM X 88MM 4 RW MPV5	1
3 AU411041	BLOWER IMPELLER 310D X 154W 415V 50HZ	1
4 AU410956	INLET RING 200MM	1
5 AU110397	CONDENSER COIL 540X381X79 5RW MPV5	1
6 AU230806	COMPRESSOR 400VAC 50HZ 460VAC 60HZ	1
7 AU521509 AU521504	TX VALVE 2T 3/8" IN 1/2" OUT 1/4EQ R134A TX ORIFICE 2T R22 #04	1 1
8 UE104	TRANSFORMER 415V/110VAC 115W SCREEN	1
9 AU531415	RECEIVER DRIER 3/8" MF 193MM HIGH	1
10 AU523112	DUAL PRESSURE CONTROL LP AUTO HP AUTO	1
11 AU691104	HEATER U SHAPE 1.0KW 240V 365MM BRS FIN	3
AU4201004 12 AU421020	FAN AXIAL 400MM 400VAC FAN GRILLE SUIT 400MM	1 1
13 AU666090	TRANSFORMER 415-240V	1
AU651032 AU6511002 14 AU6511001 AU641093 AU641096 AU6531003	CONTACTOR 9A 3 POLE 110VAC CONTACTOR 9A 110V AUX CONTACT CIRCUIT BREAKER 16A 3 POLE CIRCUIT BREAKER 2A 1 POLE MECHANICAL INTERLOCK	2 3 3 1 1 1
15 AU681020	THERMOSTAT T5 50°C SPST N/C AUTO	1
16 AU6631001	ROTARY SWITCH MODE	1
17 AU663004	ROTARY SWITCH FAN	1
18 AU681960 AU681961	THERMOSTAT DIGITAL 24V SENSOR PROPE	1 1
19 AU821300	DIFFUSER ROUND	4
AU517502	VALVE ACCESS 1/4" 1/4" & 3/8"OD SOLDER	1
UE016	THERMOSTAT DEICE STUD	1
AU845248	ANTI VIBRATION MOUNT	4

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	5.0 kW	17060 BTU
Heating Capacity	3.0 kW	10236 BTU
Fan Speeds	3	3
Air Flow	190 l/s	403 CFM
Fresh Air (Optional)	50 l/s	106 CFM
Power Supply	415 VAC 3Phase - 50 Hz	415 VAC 3Phase - 50 Hz
Current Draw	10 A	10 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	150.0 Kg	330.0 lbs
Technical Manual Reference	SM347-5341	SM347-5341
Dimension (L X W X H)	1000mm X 680mm X 495mm	39.4in X 26.8in X 19.5in

MAINTENANCE

MONTHLY / 450 HOURS	
AU4601005	FILTER
ANNUAL / 5,400 HOURS	
AU531415	RECEIVER DRIER 3/8" MF 193MM HIGH
3 YEARS / 16,200 HOURS	
AU521509	TX VALVE 2T 3/8"IN 1/2" OUT 1/4" EQ R134A
AU521504	TX ORIFICE 2T R22 #04
AU523112	DUAL PRESSURE CONTROL LP AUTO HP AUTO
UE016	THERMOSTAT DEICE STUD
AU845248	ANTI VIBRATION MOUNT

Please contact SIGMA for more information including details on an overhaul scope and interval.
Maintenance periods and scope are dependent on application and site conditions, and are to be used as a guide.

COMPANION ITEMS

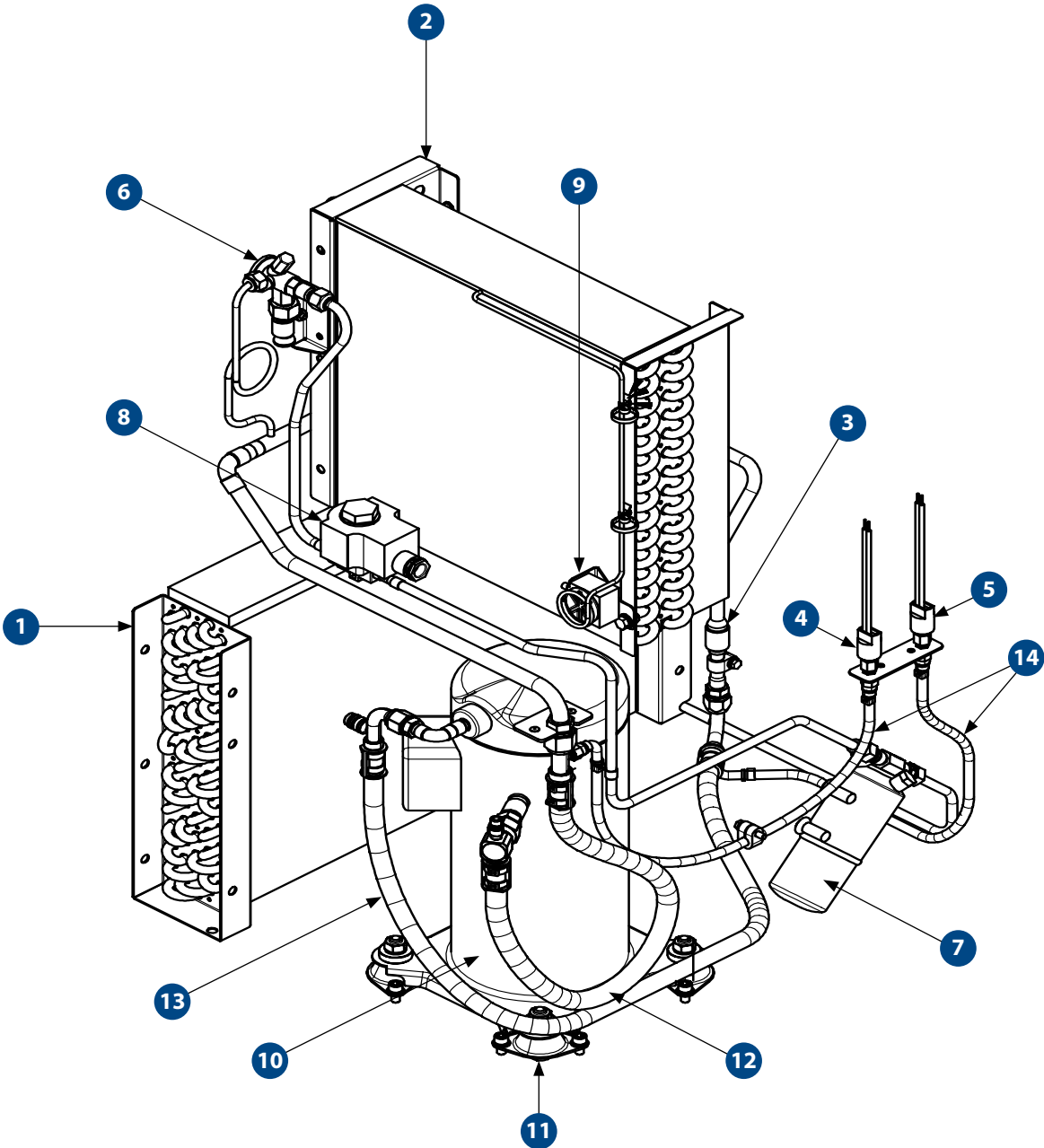
PART NO.	DESCRIPTION
FVV50M1	Fresh Air Pressuriser 50 l/s 415VAC
MKRP3	Outer Case Roof MTD
MKWP1	Outer Case Wall MTD



MPW5MX1 - REFRIGERATION / GENERAL ASSEMBLY

5KW PACKAGE WALL AC UNIT

MPW5MX1
Wall Mount Packaged HVAC 5kW 415VAC with Heating
(3kW) with Pressuriser



SPARE PARTS

PART NO.	DESCRIPTION	QTY
H0028308	FILTER MEDIA	1
1 AU110397	CONDENSER COIL 540MM X 381MM X 79MM 5RW MPV5	1
2 AU120492	EVAPORATOR COIL 380MM X 381MM X 88MM 4 RW MPV5	1
3 AU517621	VALVE CHECK 1/2SL STRAIGHT	1
4 AU523365	LOW PRESSURE SWITCH	1
5 AU523655	HIGH PRESSURE SWITCH	1
6 AU521509	TX VALVE 2T 3/8" IN 1/2" OUT 1/4" EQ R134A	1
AU521504	TX ORIFICE 2T R22 #04	1
7 AU531415	RECEIVER DRIER 3/8" MF 193MM HIGH	1
8 AU522021	SOLENOID VALVE	1
AU668140	COIL SOLENOID 24VDC TYPE 1	1
9 UE016	THERMOSTAT DEICE STUD	1
10 H0304197	COMPRESSOR ASSEMBLY	1
11 AU845248	ANTI VIBRATION MOUNT	4
12 H0227316	SUCTION HOSE ASSEMBLY	1
13 H0227314	DISCHARGE HOSE ASSEMBLY	1
14 H0227302	PRESSURE SWITCH HOSE ASSEMBLY	2
AU821301	DIFFUSER ROUND 75MM PLASTIC	2
AU861125	SEAL D 489X365 ID	2
AU862211	SEAL RUBBER	1
AU517502	VALVE ACCESS 1/4"	1

SPARE PARTS LIST CONTINUED NEXT PAGE

COMPANION ITEMS

PART NO.	DESCRIPTION
KNHV90029	Installation Kits
PVV50M2	Pressuriser
EB9P4X	Pressuriser
AU679519	Controller
AU6811015	Temperature Sensor

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	5.0 kW	17060 BTU
Heating Capacity	3.0 kW	10236 BTU
Fan Speeds	3	3
Air Flow	200 l/s	424 CFM
Fresh Air (Optional)	30 l/s	64 CFM
Power Supply	415 VAC 3Phase - 50 Hz	415 VAC 3Phase - 50 Hz
Current Draw	17 A	17 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Packaged Weight (nominal)	160.0 Kg	352.0 lbs
Technical Manual Reference	SM519-4077	SM519-4077

MAINTENANCE

MONTHLY / 450 HOURS	
H0028308	FILTER MEDIA
ANNUAL / 5,400 HOURS	
AU531415	RECEIVER DRIER 3/8" MF 193MM HIGH
3 YEARS / 16,200 HOURS	
AU521509	TX VALVE 2T 3/8" IN 1/2" OUT 1/4" EQ R134a
UE016	THERMOSTAT DEICE STUD
AU521504	TX ORIFICE 2T R22 #04
AU845248	ANTI VIBRATION MOUNT
H0227316	SUCTION HOSE ASSEMBLY
H0227314	DISCHARGE HOSE ASSEMBLY
H0227302	PRESSURE SWITCH HOSE ASSEMBLY

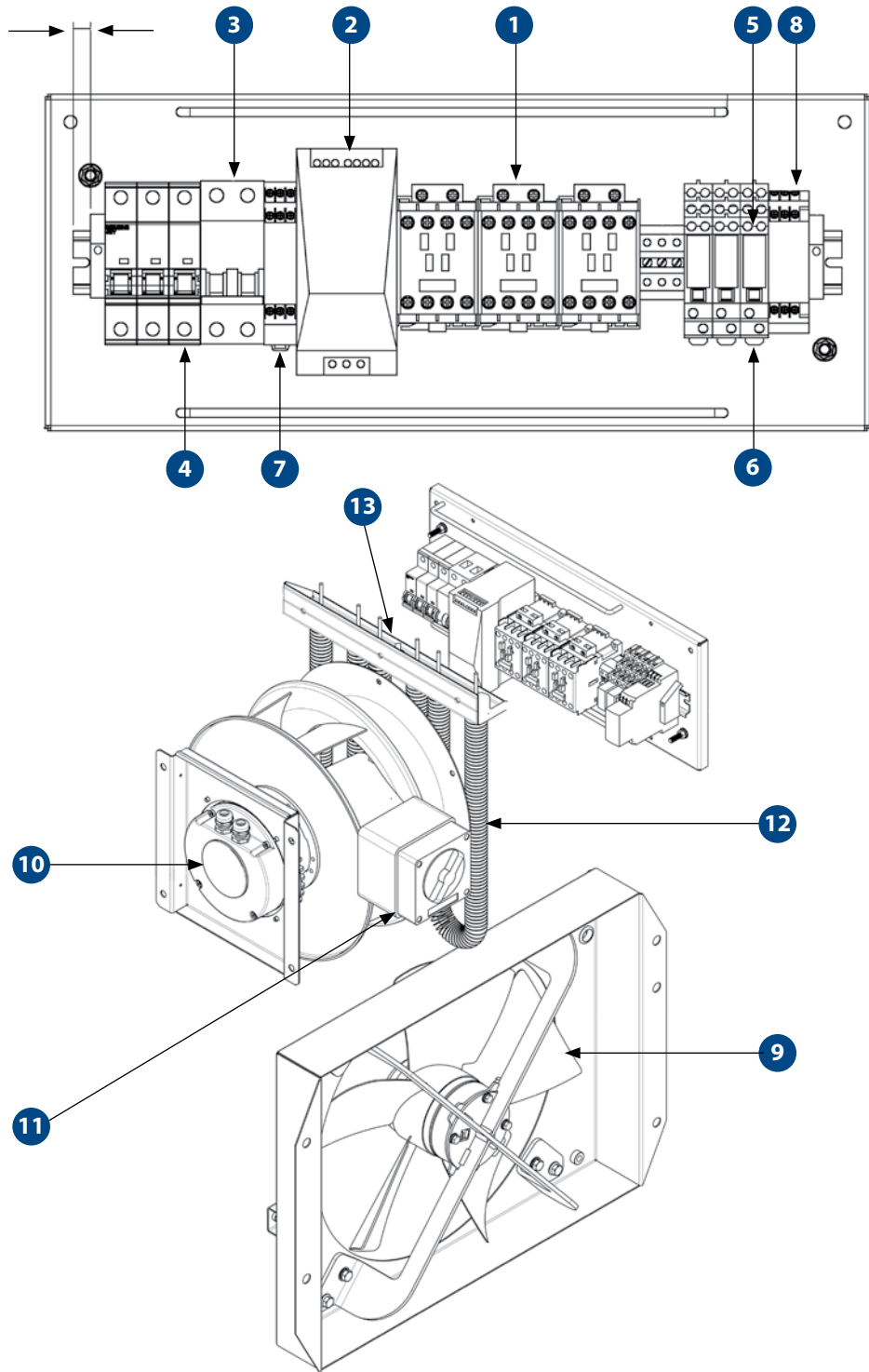
Please contact SIGMA for more information including details on an overhaul scope and interval.
Maintenance periods and scope are dependent on application and site conditions, and are to be used as a guide.



MPW5MX1 - ELECTRICAL

5KW PACKAGE WALL AC UNIT

MPW5MX1
Wall Mount Packaged HVAC 5kW 415VAC with Heating (3kW) with Pressuriser



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU651047	CONTACTOR 12A 3 POLE 24VDC 1NO	3
2 AU677142	CONVERTER AC/DC IN 24VDC OUT 3A	1
3 AU641390	CIRCUIT BREAKER 4A 2 POLE	1
4 AU641093	CIRCUIT BREAKER 16A 3 POLE	1
5 AU661040	RELAY 8 PIN 24VDC 2 POLES	3
6 AU661041	RELAY BASE 8 PIN	3
7 AU661043	RELAY POWER FAILURE 3 PHASE	1
8 AU672500	TIMER ON DELAY 24VDC 0.1SEC-100HR 1 POLE	1
9 AU4201004	FAN AXIAL 400MM 400VAC	1
10 H0023291	BLOWER IMPELLER 307D X 222W 240VAC	1
11 H0023701	SWITCH	1
12 AU691104	HEATER U SHAPE 1.0KW 240V 365MM BRS FIN	3
13 AU681020	THERMOSTAT T5 50°C SPST N/C AUTO	1
AU679519	CONTROLLER ELECTRICAL 24VDC DISPLAY	1
AU6811015	THERMOSTAT SENSOR NTC -50 TO 105°C	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	5.0 kW	17060 BTU
Heating Capacity	3.0 kW	10236 BTU
Fan Speeds	3	3
Air Flow	200 l/s	424 CFM
Fresh Air (Optional)	30 l/s	64 CFM
Power Supply	415 VAC 3Phase - 50 Hz	415 VAC 3Phase - 50 Hz
Current Draw	17 A	17 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Packaged Weight (nominal)	160.0 Kg	352.0 lbs
Technical Manual Reference	SM519-4077	SM519-4077
Dimension (L X W X H)	696mm X 665mm X 969mm	27.4in X 26.2in X 38.1in

COMPANION ITEMS

PART NO.	DESCRIPTION
KNHV90029	Installation Kits

SPARE PARTS LIST CONTINUED ON PREVIOUS PAGE

- DRAGLINE & SHOVEL
- DRILL
- EXCAVATOR
- DOZER
- TRUCK
- WHEEL LOADER
- CONSTRUCTION
- UNDERGROUND EQUIPMENT
- INDUSTRIAL
- SMELTERS
- RAIL SPECIAL VEHICLES

OVERVIEW
PRESSURISERS
E SERIES
H SERIES
M SERIES
T SERIES
PILOT CONTROL BOXES
SERVICEABLE PARTS
UNDERSTANDING HVAC
POLICIES



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