



HVAC SPARE PARTS CATALOGUE



SPECIAL VEHICLES



KNORR-BREMSE

SPC30622

SIGMA
BUILT FOR THE TOUGHEST AIR CONDITIONS

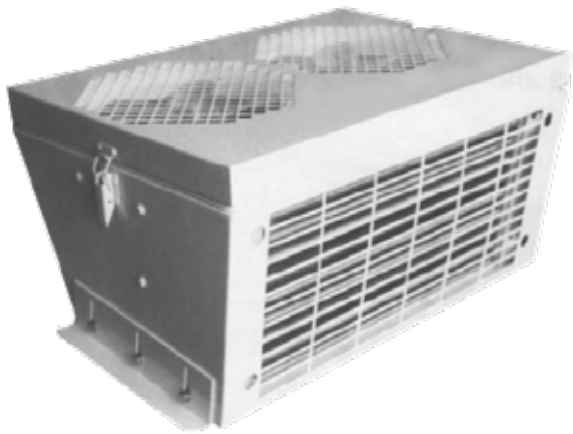
The SIGMA E SERIES air conditioner range has been designed and developed for robust duty off road applications.

They have been refined to suit the applications of vibration, dust and high ambient temperature.

These systems are engineered to suit small cabin rubber tyred vehicles and tracked vehicles with all components selected to provide reliable service and designed for ease of serviceability.

E

SERIES

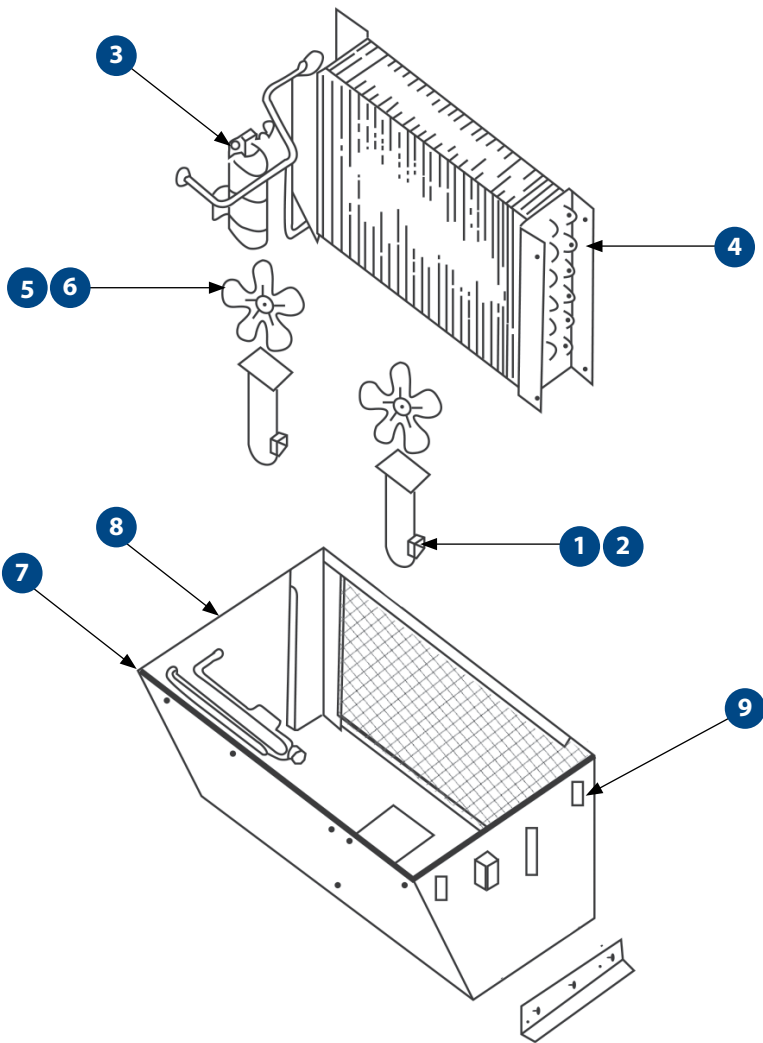


EB9C*
CONDENSER

EB9C2X*
Rooftop Condenser 5kW 12V

EB9C4X*
Rooftop Condenser 5kW 24V

* HVAC obsolete, spares support only



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU320028	MOTOR BRUSH KIT - ASSEMBLY + HOLDER	2
2 AU320027	MOTOR 12V (EB9C2)	1
AU320C007	MOTOR 24V (EB9C4)	1
3 AU531411	RECEIVER DRIER 3/8" 24UNF165MM HIGH	1
4 UR039	CONDENSER COIL	1
5 AU420020	FAN AXIAL 203MM CW 5 BLADES	2
6 UC306	SHAFT EXTENSION 3/8" F X 5/16" M	2
7 UR009	BULKHEAD FITTING 3/8" MF #6	1
8 UR008	BULKHEAD FITTING 1/2" MF	1
9 UC048	LATCH TOGGLE OVER-CENTRE	2
UE700	CIRCUIT BREAKER 40A STUD TYP MANUAL	1
UC318	MOTOR MOUNT T SERIES ALUMINIUM	2
UC047	KEEPER PLATE ZP	2
UE064	DPC 1/4" MF HIGH PRESSURE 2206kPa LOW PRESSURE 196kPa	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	5.0 kW	17060 BTU
Power Supply	12V / 24V	12V / 24V
Current Draw	20 A / 10 A	20 A / 10 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	46°C	115°F
Weight (nominal)	29.0 Kg	63.8 lbs
Technical Manual Reference	SM144-2071	SM144-2071
Dimension L X W X H	875mm X 810mm X 320mm	34.4in X 31.9in X 12.6in

MAINTENANCE

6 MONTHS / 1,800 HOURS	
AU320028	MOTOR BRUSH KIT - ASSEMBLY + HOLDER
ANNUAL / 3,600 HOURS	
AU320027	MOTOR 12V (EB9C2)
AU320C007	MOTOR 24V (EB9C4)
AU531411	RECEIVER DRIER 3/8" 24UNF165MM HIGH

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
EB9EH4X	Evaporator
EB9P4X	Pressuriser
HDC150	Hydraulic Compressor
AU2961001	Electric Compressor 24 V
AU270306	Engine Driven Compressor
AU270307	Engine Driven Compressor



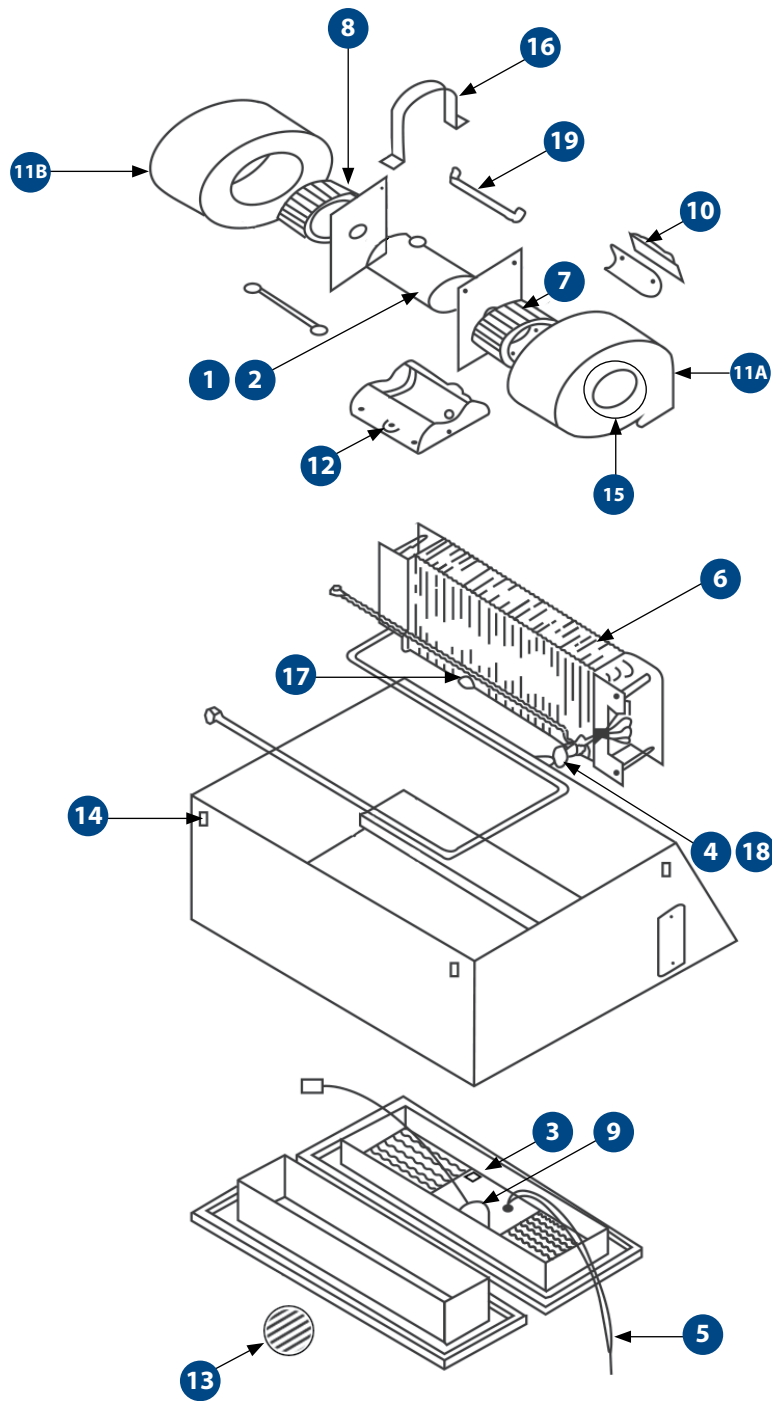
EB9E
ROOFTOP EVAPORATOR

EB9EH2X*
Rooftop Evaporator 5kW 12V with Heating (4.6kW)

EB9EH4X
Rooftop Evaporator 5kW 24V with Heating (4.6kW)

EB9EH4XSS*
Rooftop Evaporator 5kW 24V with Heating (4.6kW)
Stainless Steel Case

* HVAC obsolete, spares support only



SPARE PARTS

PART NO.	DESCRIPTION	QTY	
1	AU320621 UE048	BRUSH MOTOR 24VDC EACH BRUSH MOTOR 12VDC EACH	2 2
2	UE022 UE023	MOTOR 12VDC D/S (EB9EH2) MOTOR 24VDC D/S (EB9EH4)	1 1
3	UE016	THERMOSTAT DEICE STUD	1
4	AU521923	TX VALVE 1.5T 3/8" IN 1/2" OUT 1/4" EQ	1
5	UC042	CABLE PUSH/PULL F/DRIVE 1500MM	1
6	UR036	EVAPORATOR COIL ASSEMBLY	1
7	UF017	BLOWER 121D X 76W X 3/8" CCW SINGLE INLET	1
8	UF018	BLOWER 121D X 76W X 3/8" CW SINGLE INLET	1
9	AU663095	ROTARY SWITCH OFF HI L	1
10	UE185	RESISTOR 0.5 OHM 50W 12 & 24V	1
11A	UF040	HOUSING SUPPLY AIR FAN CCW	1
11B	UF041	HOUSING SUPPLY AIR FAN CW	1
12	UC027	EVAPORATOR MOTOR MOUNT	1
13	AU821704	DIFFUSER ROUND 92MM PVC	5
14	UC048	LATCH TOGGLE OVER-CENTRE	4
15	UF034	INLET RING 103.5MM	1
16	S5006029	MOTOR MOUNT CLAMP 97MM	1
17	UR042	PRESSURE CONTROL ADAPTOR	2
18	UR173	CLAMP TX VALVE BULB 5/8 X 3/8	1
19	S5006030	FAN SET BRACE	2
	UR032	TX VALVE STRAINER FOR AU521923	1
	UR037	HEATER COIL 354MM X 178MM X 32MM 2RW EB9	1
	UE183	RESISTOR 3 OHM 50W 24V	1
	UE700	CIRCUIT BREAKER 40A STUD TYP MANUAL	1
	AU744827	VALVE WATER 16MM	1
	AU517502	VALVE ACCESS 1/4" 1/4" & 3/8"OD SOLDER	1
	UE064	DPC 1/4" MF HIGH PRESSURE 2206kPa LOW PRESSURE 196kPa	1
	UF089	FAN DECK 24V EB9	1
	BC036	SEAL CAB TO CASE 360MM X 422MM	1
	UC047	KEEPER PLATE ZP	4
	UR011	BULKHEAD FITTING 5/8" MF #10	1
	UR009	BULKHEAD FITTING 3/8" MF #6	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	5.0 kW	17060 BTU
Heating Capacity	4.6 kW	15695 BTU
Air Flow	130 l/s	275 CFM
Fresh Air	30 l/s	64 CFM
Power Supply	24V / 12V	24V / 12V
Current Draw	7 A / 14 A	7 A / 14 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	46°C	115°F
Weight (nominal)	26.0 Kg	57.2 lbs
Technical Manual Reference	SM144-2071	SM144-2071
Dimension L X W X H	570mm X 545mm X 250mm	22.4in X 21.5in X 9.8in

MAINTENANCE

6 MONTHS / 2,500 HOURS	
UE048	BRUSH MOTOR 12VDC EACH
AU320621	BRUSH MOTOR 24VDC EACH
ANNUAL / 5,000 HOURS	
UE022	MOTOR 12VDC D/S (EB9EH2)
UE023	MOTOR 24VDC D/S (EB9EH4)
3 YEARS / 15, 000 HOURS	
UE016	THERMOSTAT DEICE STUD
UE064	DPC 1/4" MF HIGH PRESSURE 2206kPa LOW PRESSURE 196kPa
AU521923	TX VALVE 1.5T 3/8" IN 1/2" OUT 1/4" EQ
UR032	TX VALVE STRAINER FOR AU521923
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
EB9C4X	Electric Condenser
EB9P4X	Pressuriser
HDC150	Hydraulic Compressor
AU2961001	Electric Compressor
AU110388	Radiator Condenser
AU270306E	Engine Driven Compressor
AU270307E	Engine Driven Compressor
AU270311E	Engine Driven Compressor
AU270312E	Engine Driven Compressor
AU531422	Receiver Drier
KNHV80001	Installation Kits
KNHV80011	Installation Kits





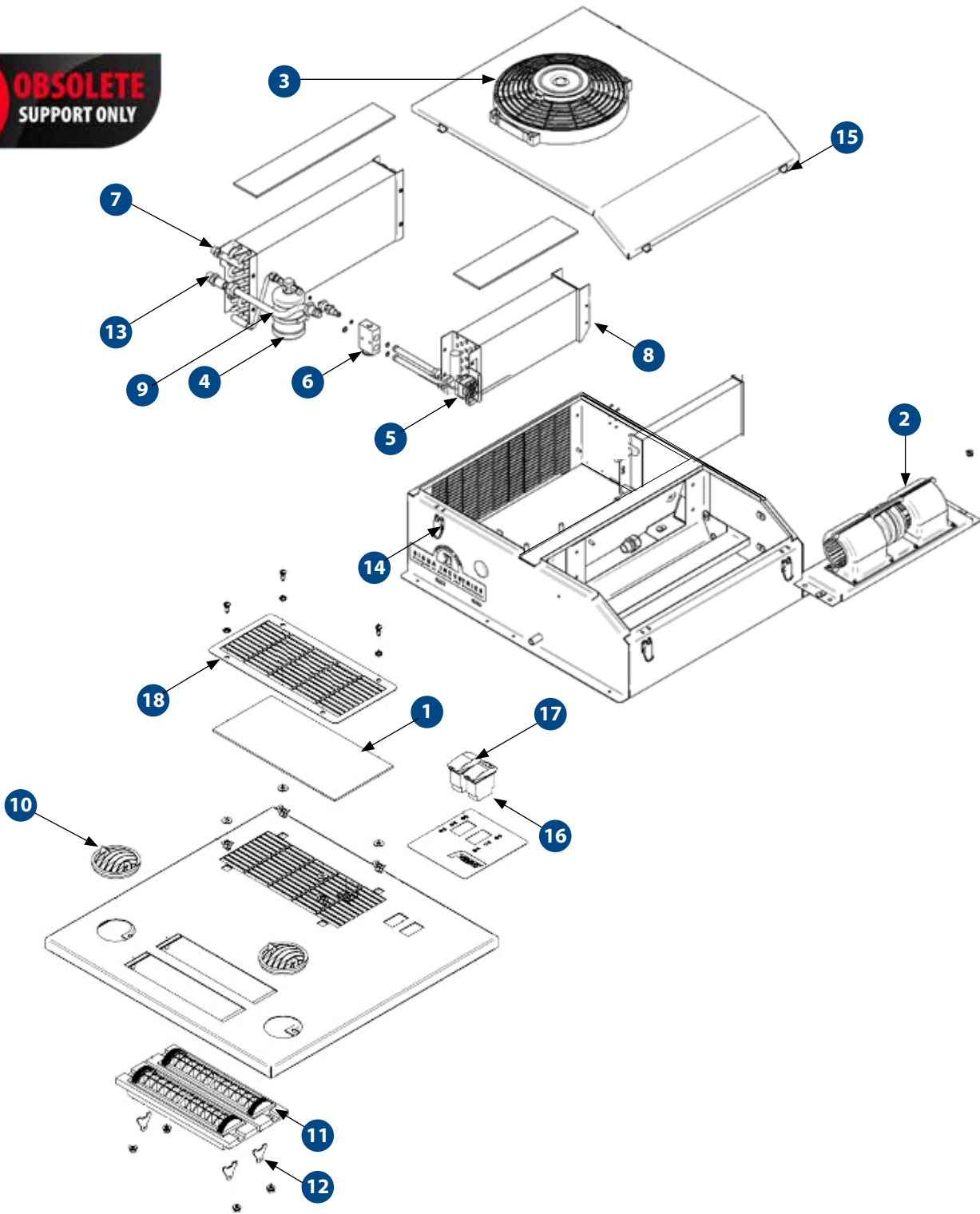
EC12*

ROOFTOP PACKAGED HVAC UNIT

EC122*
Rooftop Packaged HVAC 4kW 12V

EC124*
Rooftop Packaged HVAC 4kW 24V

* HVAC obsolete, spares support only



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 S2501180	RETURN AIR FILTER MEDIA	1
2 AU400035 AU400034	FAN DECK 12V 3SPD (EC122) FAN DECK 24V 3SPD (EC124)	1 1
3 AU420052 AU420053	FAN AXIAL ASSEMBLY 330MM 12VDC (EC122) FAN AXIAL ASSEMBLY 330MM 24VDC (EC124)	1 1
4 AU531422	RECEIVER DRIER 3/8" MIOR 160MM HIGH	1
5 UE016	THERMOSTAT DEICE STUD	1
6 H0092214	THERMAL EXPANSION VALVE BLOCK 1.5T R134a	1
7 AU110415	CONDENSER COIL 485MM X 203MM X 79MM 5RW EDR4	1
8 AU120465	EVAPORATOR COIL 345X152X79 4RW EC9 EC124	1
9 AS250148	SUCTION LINE TX VALVE TO BULKHEAD FITTING	1
10 AU821708	LOUVRE ROUND 3" HOLE	2
11 S2501107	DIFFUSER 252MM X 62MM	2
12 S2501074	DIFFUSER INTERFACE	4
13 AU512C067	BULKHEAD FITTING O-RING 5/8"	1
14 UC048	LATCH TOGGLE OVER-CENTRE	4
15 UC047	KEEPER PLATE ZP	4
16 AU662968 AU662970	SWITCH ROCKER IP68 24V 15A GREEN LED SWITCH ROCKER IP68 12V 20A GREEN LED	1 1
17 AU662969 AU662971	SWITCH ROCKER IP68 24V 15A SWITCH ROCKER IP68 12V 20A	1 1
18 S2501172S	RETURN AIR FILTER COVER	1
AU661482	RELAY 30A 12VDC 5 PIN	1
AU661483	RELAY 20A 24VDC 5 PIN	1
UE064	DDPC 1/4" MF HIGH PRESSURE 2206kPa LOW PRESSURE 196kPa	1
UC020	HOSE CLEAR PVC 12 5MM INTERNAL DIAMETER	5
AS250147	LIQUID LINE RECEIVER TO TX VALVE	1
S2501207	GRILLE 344X100MM	1
UC504	DRAIN NOZZLE 13MM	2
AU643213	FUSE BLADE MINI 15A AUTO	1
AU643116	FUSE HOLDER MINI CRIMP 30A	1
AU643100	FUSE BLADE MINI 25A AUTO	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	4.0 kW	13648 BTU
Heating Capacity (with Optional Kits)	3.5 kW	11942 BTU
Fan Speeds	3	3
Air Flow	110 l/s	233 CFM
Power Supply	12V / 24V	12V / 24V
Current Draw	25 A / 12.5 A	25 A / 12.5 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	46°C	115°F
Weight (nominal)	35.0 Kg	77.0 lbs
Technical Manual Reference	SM266-2494	SM266-2494
Dimension L X W X H	760mm X 600mm X 330mm	29.9in X 23.6in X 13in

MAINTENANCE

MONTHLY / 300 HOURS	
S2501180	RETURN AIR FILTER MEDIA
ANNUAL / 3,600 HOURS	
AU400035	FAN DECK 12V 3SPD
AU400034	FAN DECK 24V 3SPD
AU420052	FAN AXIAL ASSEMBLY 330MM 12VDC
AU420053	FAN AXIAL ASSEMBLY 330MM 24VDC
AU531422	RECEIVER DRIER 3/8" MIOR 160MM HIGH
3 YEARS / 10,800 HOURS	
UE016	THERMOSTAT DEICE STUD
AU661482	RELAY 30A 12VDC 5 PIN
AU661483	RELAY 20A 24VDC 5 PIN
UE064	DPC 1/4" MF HIGH PRESSURE 2206kPa LOW PRESSURE 196kPa
H0092214	THERMAL EXPANSION VALVE BLOCK 1.5T R134a
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

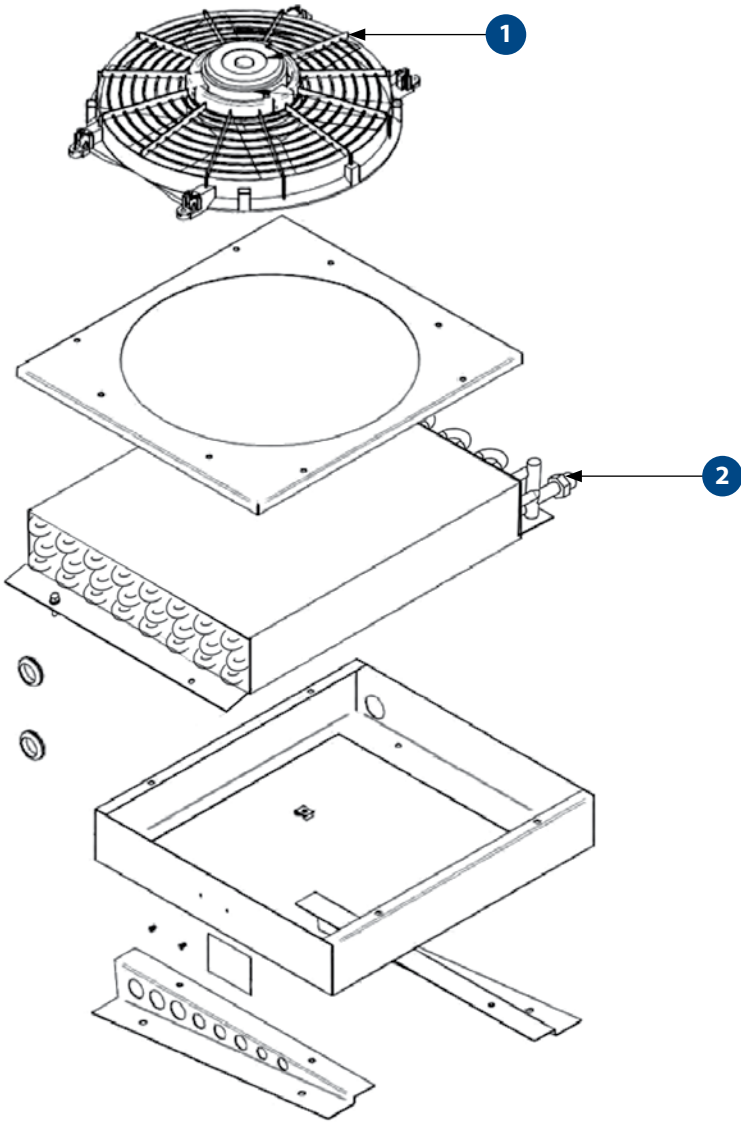
PART NO.	DESCRIPTION
EB9P4X	Pressuriser
HDC150	Hydraulic Compressor
AU2961001	Electric Compressor 24V
AU270306E	Engine Driven Compressor
AU270307E	Engine Driven Compressor
AU270311E	Engine Driven Compressor
AU270312E	Engine Driven Compressor
KIT25011	Heater Kit

EC12C

REMOTE CONDENSER

EC12C2
Remote Condenser 4kW 12V

EC12C4
Remote Condenser 4kW 24V



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1	AU420064 FAN AXIAL ASSEMBLY 400MM 12VDC (EC12C2)	1
	AU420063 FAN AXIAL ASSEMBLY 400MM 24VDC (EC12C4)	1
2	AU110312 CONDENSER COIL 390MM X 406MM X 66MM 3RW	1
	AU110316 CONDENSER COIL 390X406X66 3RW (EC12C4SS)	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	4.0 kW	13648 BTU
Fan Speeds	1	1
Power Supply	24V / 12V	24V / 12V
Current Draw	10 A / 20 A	10 A / 20 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	46°C	115°F
Weight (nominal)	10.0 Kg	22.0 lbs
Technical Manual Reference	SM260-2494	SM260-2494
Dimension L X W X H	600mm X 455mm X 225mm	23.6in X 17.9in X 8.9in

MAINTENANCE

ANNUAL / 3,600 HOURS	
AU420064	FAN AXIAL ASSEMBLY 400MM 12VDC
AU420063	FAN AXIAL ASSEMBLY 400MM 24VDC
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
EC1214	Internal Wall Evaporator
EC12H4	Hood Liner Evaporator
EFF4BX1	Evaporator
EB9P4X	Pressuriser
HDC150	Hydraulic Compressor
AU2961001	Electric Compressor 24V
AU270306E	Engine Driven Compressor
AU270307E	Engine Driven Compressor
AU270311E	Engine Driven Compressor
AU270312E	Engine Driven Compressor
AU531422	Receiver Drier



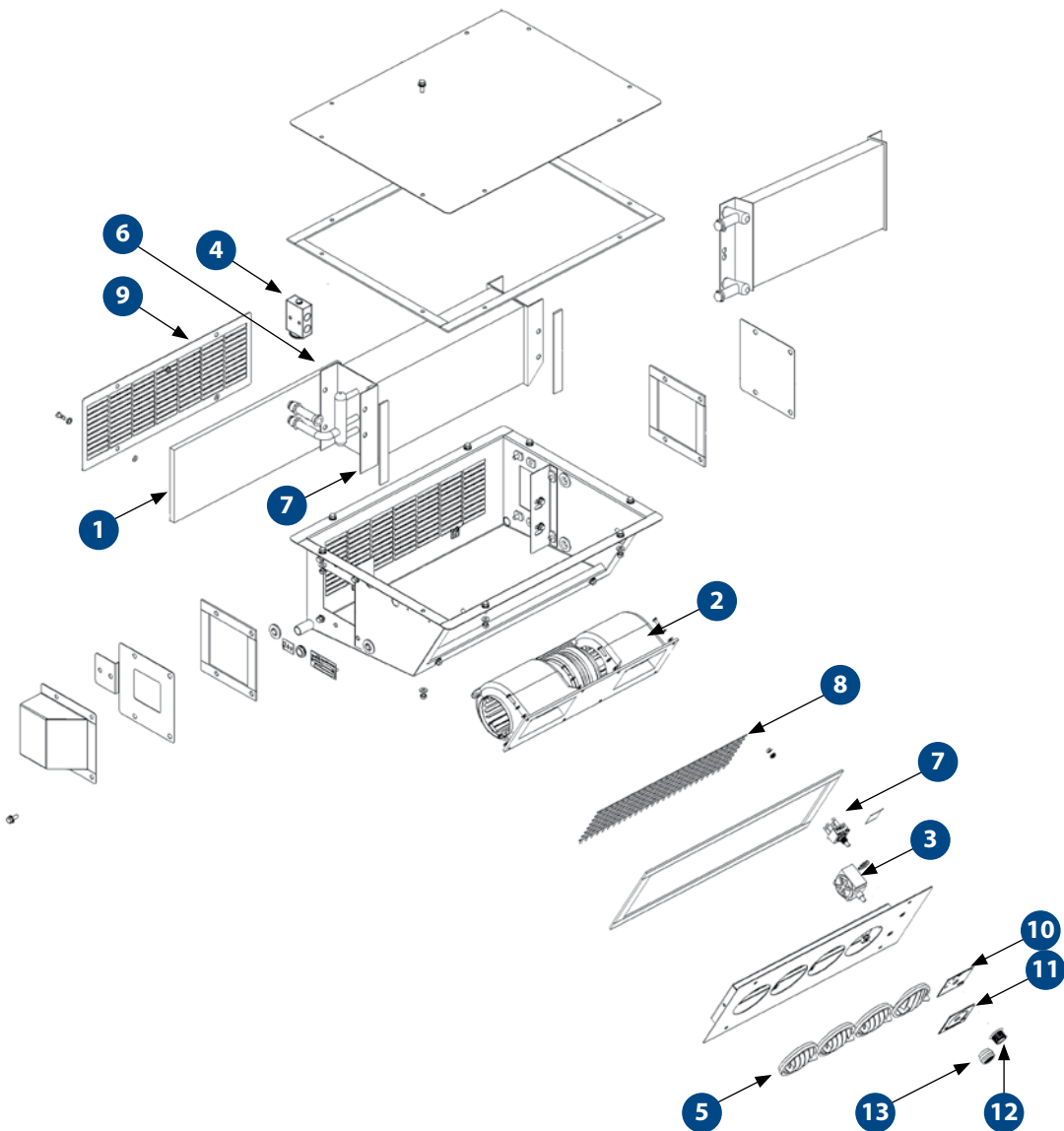
EC12H

CEILING MOUNT EVAPORATOR

EC12H2
Ceiling Mount Evaporator 4kW 12V

EC12H4
Ceiling Mount Evaporator 4kW 24V

EC12H4SS
Ceiling Mount Evaporator 4kW 24V Stainless Steel



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 S2501182S	EVAPORATOR FILTER MEDIA 385MM X 145MM	1
2 AU400035	FAN DECK 12V 3SPD (EC12H2)	1
AU400034	FAN DECK 24V 3SPD (EC12H4) (EC12H4SS)	1
3 UE016	THERMOSTAT DEICE STUD	1
4 AU521946	THERMAL EXPANSION VALVE BLOCK 2T 3/8" IN 1/2" OUT R134A	1
5 AU821708	LOUVRE ROUND 3" HOLE	4
AU120506	EVAPORATOR COIL 345MM X 152MM X 79MM (EC12H4SS)	1
6 AU120480	EVAPORATOR COIL 345MM X 152MM X 79MM (EC12H2/EC12H4)	1
7 UE335	ROTARY SWITCH 3-SPEED C/W NUT	1
8 S2501207	GRILLE 344MM X 100MM	1
9 S2501026	FILTER COVER	1
10 AU854350	LABEL FAN SWITCH	1
11 AU854351	LABEL THERMOSTAT	1
12 UC451	KNOB 1/4 BLACK PLASTIC 21MM DIAMETER	1
13 UC022	KNOB SNOWFLAKE 6.35MM	1
UC504	DRAIN NOZZLE 13MM	2
AU552403	O-RING 134A SIZE 13/32" #8	2
AU643213	FUSE BLADE MINI 15A AUTO	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	4.0 kW	13648 BTU
Heating Capacity (Optional)	3.5 kW	11942 BTU
Air Flow	110 l/s	233 CFM
Fresh Air	30 l/s	64CFM
Power Supply	12V / 24V	12V / 24V
Current Draw	10 A / 5 A	10 A / 5 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	46°C	115°F
Weight (nominal)	10.0 Kg	22.0 lbs
Technical Manual Reference	SM260-2494	SM260-2494
Dimension L X W X H	513mm X 415mm X 180mm	20.2in X 16.3in X 7.1in

MAINTENANCE

MONTHLY / 300 HOURS	
S2501182S	RETURN AIR FILTER MEDIA
ANNUAL / 3,600 HOURS	
AU400035	FAN DECK 12V 3SPD
AU400034	FAN DECK 24V 3SPD
3 YEARS / 10,800 HOURS	
UE016	THERMOSTAT DEICE STUD
UE335	ROTARY SWITCH 3 SPEED COMPLETE WITH NUT
AU521946	THERMAL EXPANSION VALVE BLOCK 2T 3/8" IN 1/2" OUT R134A

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
EC12C4	Electric Condenser
EB9P4X	Pressuriser
HDC150	Hydraulic Compressor
AU2961001	Electric Compressor 24V
AU110316	Radiator Condenser
AU270306E	Engine Driven Compressor
AU270307E	Engine Driven Compressor
AU270311E	Engine Driven Compressor
AU270312E	Engine Driven Compressor
KIT25014	Heater Kit

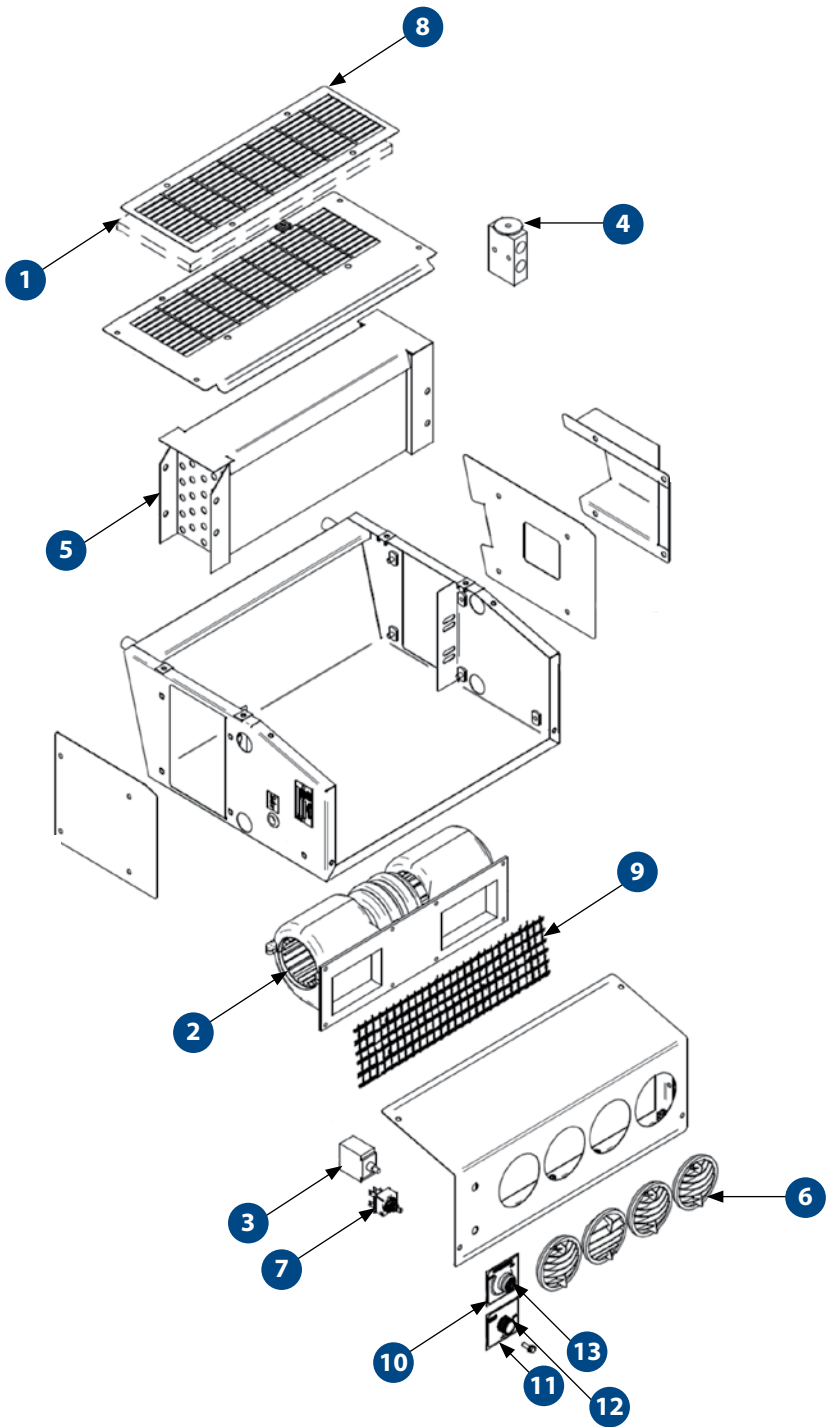


EC12I

INTERNAL EVAPORATOR

EC12I2
Internal Wall Mount Evaporator 4kW 12V

EC12I4
Internal Wall Mount Evaporator 4kW 24V



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 S25011825	EVAPORATOR FILTER MEDIA 385MM X 145MM	1
2 AU400035 AU400034	FAN DECK 12V 3SPD (EC12I2) FAN DECK 24V 3SPD (EC12I4)	1 1
3 UE016	THERMOSTAT DEICE STUD	1
4 AU521946	THERMAL EXPANSION VALVE BLOCK 2T 3/8" IN 1/2" OUT R134A	1
5 AU120480	EVAPORATOR COIL 345MM X 152MM X 79MM 4RW	1
6 AU821708	LOUVRE ROUND 3" HOLE	4
7 UE335	ROTARY SWITCH 3 SPEED COMPLETE WITH NUT	1
8 S2501021	FILTER COVER	1
9 S2501207	GRILLE 344MM X 100MM	1
10 AU854351	LABEL STANDARD THERMOSTAT	1
11 AU854350	LABEL AUTOMOTIVE FAN SWITCH	1
12 UC451	KNOB 1/4 BLACK PLASTIC 21MM DIAMETER	1
13 UC022	KNOB SNOWFLAKE 6.35MM	1
UC504	DRAIN NOZZLE 13MM	4
AU552403	O RING 134A SIZE 13/32" #8	2
AU643100	FUSE BLADE MINI 25A AUTO	1
AU643213	FUSE BLADE MINI 15A AUTO	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	4.0 kW	13648 BTU
Heating Capacity (Optional)	3.5 kW	11942 BTU
Air Flow	110 l/s	233 CFM
Fresh Air	30 l/s	64 CFM
Power Supply	12V / 24V	12V / 24V
Current Draw	10 A / 5 A	10 A / 5 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	46°C	115°F
Weight (nominal)	10.0 Kg	22.0 lbs
Technical Manual Reference	SM260-2494	SM260-2494
Dimension L X W X H	550mm X 435mm X 180mm	21.7in X 17.1in X 7.1in

MAINTENANCE

MONTHLY / 300 HOURS	
S25011825	EVAPORATOR FILTER MEDIA 385X145MM
ANNUAL / 3,600 HOURS	
AU400034	FAN DECK 24V 3SPD
AU400035	FAN DECK 12V 3SPD
3 YEARS / 10,800 HOURS	
UE016	THERMOSTAT DEICE STUD
UE335	ROTARY SWITCH 3 SPEED COMPLETE WITH NUT
AU521946	THERMAL EXPANSION VALVE BLOCK 2T 3/8" IN 1/2" OUT R134A

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
EC12C4	Electric Condenser
EB9P4X	Pressuriser
HDC150	Hydraulic Compressor
AU2961001	Electric Compressor 24V
AU110388	Radiator Condenser
AU270306E	Engine Driven Compressor
AU270307E	Engine Driven Compressor
AU270311E	Engine Driven Compressor
AU270312E	Engine Driven Compressor
AU531422	Receiver Drier
KIT25014	Heater Kit





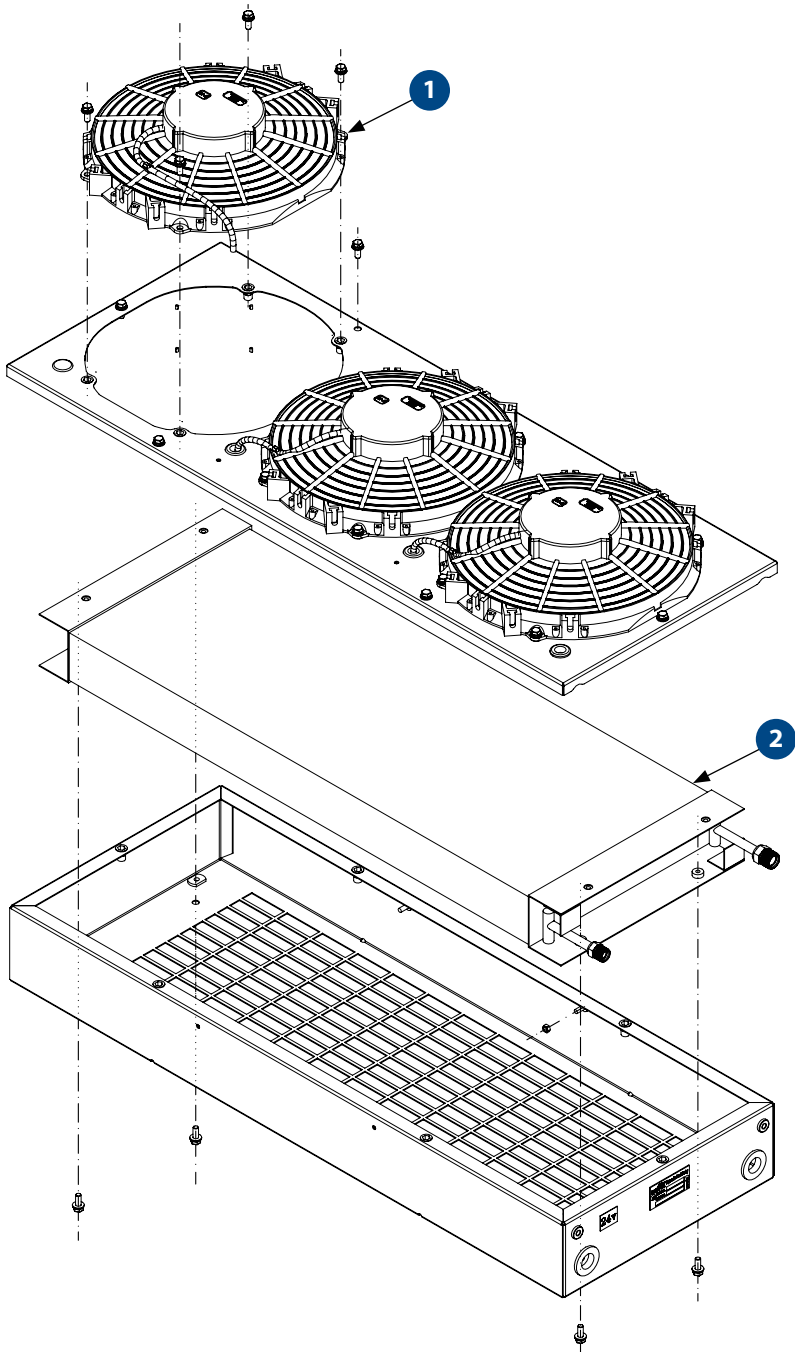
EC22C

REMOTE CONDENSER

EC22C2
Remote Condenser 6kW 12V

EC22C4
Remote Condenser 6kW 24V

EC22C4SS
Remote Condenser 6kW 24V Stainless Steel



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1	H0212292 FAN AXIAL ASSEMBLY 260MM 12VDC (EC22C2)	3
	H0214932 FAN AXIAL ASSEMBLY 260MM 24VDC (EC22C4)	3
2	AU110389 CONDENSER (EC22C4SS)	1
	AU110388 CONDENSER (EC22C2 EC22C4)	1

UPGRADE OPTION

PART NO.	DESCRIPTION	QTY
H0250349	CONDENSER COVER, ASSEMBLY 12v	1
H0250666	CONDENSER COVER, ASSEMBLY 24v	1
H0249473	CONDENSER COVER, ASSEMBLY SS	1

NOTE: To upgrade unit with AU420050 or AU420051 (previous generation fans) to our new fan system without any modification to lid, one of the assembly listed above can be used based on your unit variant. This assemble includes one (1) panel, three (3) fans & wiring

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	6.0 kW	20472 BTU
Fan Speeds	1	1
Power Supply	24V / 12V	24V / 12V
Current Draw	13 A / 26 A	13 A / 26 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	46°C	115°F
Weight (nominal)	14.0 Kg	30.8lbs
Technical Manual Reference	SM260-2494	SM260-2494
Dimension L X W X H	908mm X 332mm X 190mm	35.7in X 13.1in X 7.5in

MAINTENANCE

ANNUAL / 3,600 HOURS	
H0212292	FAN AXIAL ASSEMBLY 260MM 12VDC
H0214932	FAN AXIAL ASSEMBLY 260MM 24VDC
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
EC22H4	Hoodliner Evaporator
EB9P4X	Pressuriser
HDC150	Hydraulic Compressor
AU270306E	Engine Driven Compressor
AU270307E	Engine Driven Compressor
AU270311E	Engine Driven Compressor
AU270312E	Engine Driven Compressor
AU531422	Receiver Drier

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

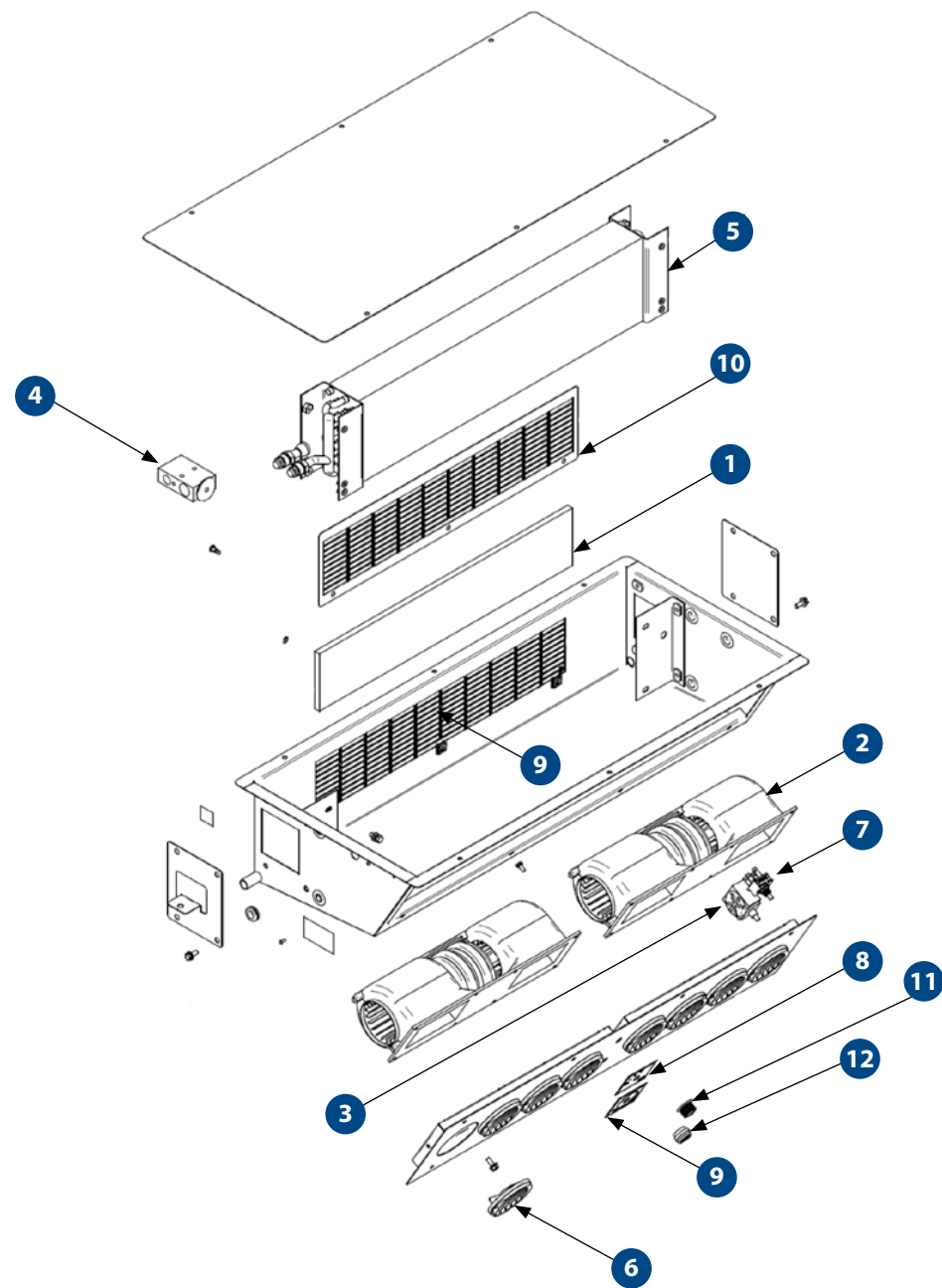


EC22H

CEILING EVAPORATOR

EC22H2
Ceiling Evaporator 6kW 12V

EC22H4
Ceiling Evaporator 6kW 24V



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 S2502084	FILTER MEDIA	1
2 AU400035 AU400034	FAN DECK 12V 3SPEED (EC22H2) FAN DECK 24V 3SPEED (EC22H4)	2 2
3 UE016	THERMOSTAT DEICE STUD	1
4 AU521946	THERMAL EXPANSION VALVE BLOCK 2T 3/8" IN 1/2" OUT R134A	1
5 AU120660	EVAPORATOR COIL 600MM X 152MM X 63MM 4RW EC22H	1
6 AU821708	LOUVRE ROUND 3" HOLE	8
7 UE335	ROTARY SWITCH 3 SPEED COMPLETE WITH NUT	1
8 AU854350	LABEL AUTOMOTIVE FAN SWITCH	1
9 AU854351	LABEL STANDARD THERMOSTAT	1
10 S2502024	FILTER COVER	1
11 UC451	KNOB 1/4 BLACK PLASTIC 21MM DIAMETER	1
12 UC022	KNOB SNOWFLAKE 6.35MM	1
UC504	DRAIN NOZZLE 13MM	2
AU552403	O RING 134A SIZE 13/32" #8	2

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	6.0 kW	20472 BTU
Heating Capacity (with Optional Kit)	3.8 kW	12966 BTU
Fan Speeds	3	3
Air Flow	220 l/s	466 CFM
Power Supply	12V / 24V	12V / 24V
Current Draw	24 A / 12 A	24 A / 12 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	46°C	115°F
Weight (nominal)	14.0 Kg	30.8 lbs
Technical Manual Reference	SM260-2494	SM260-2494
Dimension L X W X H	886mm X 390mm X 180mm	34.9in X 15.4in X 7.1in

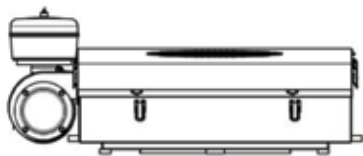
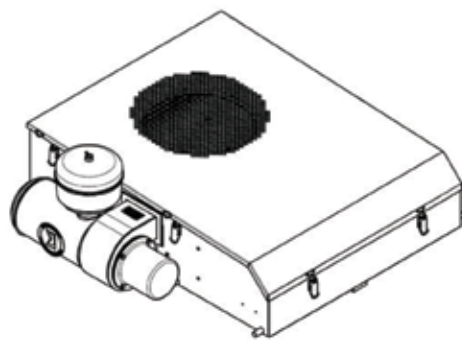
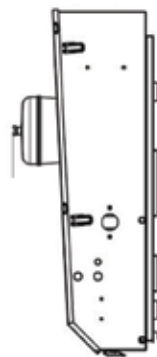
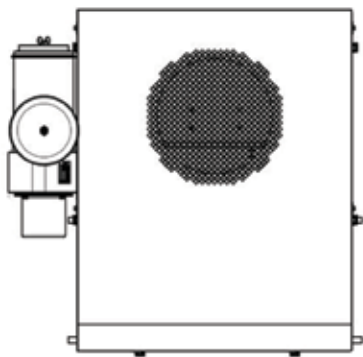
MAINTENANCE

MONTHLY / 300 HOURS	
S2502084	RETURN AIR FILTER MEDIA
ANNUAL / 3,600 HOURS	
AU400035	FAN DECK 12V 3SPD
AU400034	FAN DECK 24V 3SPD
3 YEARS / 10,800 HOURS	
UE016	THERMOSTAT DEICE STUD
UE335	ROTARY SWITCH 3 SPEED COMPLETE WITH NUT
AU521946	THERMAL EXPANSION VALVE BLOCK 2T 3/8" IN 1/2" OUT R134A

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
EC22C4	Electric Condenser
EB9P4X	Pressuriser
HDC150	Hydraulic Compressor
AU2961001	Electric Compressor 24V
AU110388	Radiator Condenser
AU270306E	Engine Driven Compressor
AU270307E	Engine Driven Compressor
AU270311E	Engine Driven Compressor
AU270312E	Engine Driven Compressor
AU531422	Receiver Drier
KIT25021	EC22H Heater Kit
KNHV90019	Vertical Mount Drain Tray



EC64X*

MEDIUM DUTY OFF ROAD ROOFTOP PACKAGED HVAC UNIT

EC64X*
Rooftop Packaged HVAC 6kW 24V with Heating (6kW)

EC64XSS*
Rooftop Packaged HVAC 6kW 24V with Heating (6kW)
Stainless Steel Case

* HVAC obsolete, spares support only

SPARE PARTS

PART NO.	DESCRIPTION	QTY
MC044S	RETURN AIR FILTER ASSEMBLY E&T SERIES	1
AU320621	BRUSH MOTOR 24VDC SET X 2	2
UE023	MOTOR 24VDC D/S	1
UE026	MOTOR 24VDC S/S	1
AU531411	RECEIVER DRIER 3/8" 24UNF 165MM HIGH	1
UE016	THERMOSTAT DEICE STUD	1
UE072	RELAY 24VDC 70A AUTOMOTIVE	1
AU521923	TX VALVE 1.5T 3/8" IN 1/2" OUT 1/4" EQ	1
UR032	TX VALVE STRAINER FOR AU521923	1
UR396	CONDENSER COIL 600MM X 229MM X 110MM	1
UR532	EVAPORATOR COIL 600MM X 152MM X 79MM +32 5+2RW	1
AU420229	FAN AXIAL 300MM 3 BLADES LB	1
UF173	BLOWER HOUSING LEFT HAND	1
UF174	BLOWER HOUSING RIGHT HAND	1
UF171	BLOWER 121D X 127W X 3/8" DUAL INLET	2
UC028	CONDENSER MOTOR MOUNT	2
AS500625	CONDENSER COIL ASSEMBLY EC6	1
AS500607	EVAPORATOR COIL ASSEMBLY EC6	1
UE183	RESISTOR 3 OHM 50W 24V	1
UE700	CIRCUIT BREAKER 40A STUD TYP MANUAL	1
UC027	EVAPORATOR MOTOR MOUNT	1
UE064	PRESSURE SWITCH	1
AU460807	FILTER MEDIA 12MM G2	1
AU821704	DIFFUSER ROUND 92MM PVC	5
AU663564	ROTARY SWITCH OFF LO HI LO	1
AU853507	LEAF SPRING 105MM X 13MM	1
UC504	DRAIN NOZZLE 13MM	2
UF034	INLET RING 103.5MM	1
ERF032	FUSE BOX - 6 WAY BLADE	1
AS500610	LIQUID LINE - DRIER TO TX VALVE	1
AU872873	BULKHEAD FITTING 5/8SLF X 3/4MF	1
AS500609	LIQUID LINE - COIL TO DRIER	1
S5006029	MOTOR MOUNT CLAMP 97MM	1
S5006034	LIQUID LINE (COIL TO DRIER)	1
UC048	LATCH TOGGLE OVER-CENTRE	6
UC047	KEEPER PLATE ZP	6
AU643210	FUSE BLADE 25A AUTO	1
UC020	HOSE CLEAR PVC 12 5MM ID	6

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	6.0 kW	20472 BTU
Heating Capacity	6.0 kW	20472 BTU
Fan Speeds	2	2
Air Flow	250 l/s	530 CFM
Fresh Air	30 l/s	64 CFM
Power Supply	24V	24V
Current Draw	18 A	18 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	46°C	115°F
Weight (nominal)	35.0 Kg	77.0 lbs
Technical Manual Reference	SM150-5006	SM150-5006
Dimension L X W X H	945mm X 750mm X 260mm	37.2in X 29.5in X 10.2in

MAINTENANCE

MONTHLY / 300 HOURS	
MC044S	RETURN AIR FILTER ASSEMBLY E&T SERIES
6 MONTHLY / 1,800 HOURS	
AU320621	BRUSH MOTOR SET X 2
ANNUAL / 3,600 HOURS	
UE023	MOTOR 24VDC D/S
UE026	MOTOR 24VDC S/S
AU531411	RECEIVER DRIER 3/8" 24UNF 165MM HIGH
3 YEARS / 10,800 HOURS	
UE072	RELAY 24VDC 70A AUTOMOTIVE
AU521923	TX VALVE 1.5T 3/8" IN 1/2" OUT 1/4" EQ
UR032	TX VALVE STRAINER FOR AU521923
UF171	BLOWER 121D X 127W X 3/8" DI
AU420229	FAN AXIAL 300MM 3 BLADES LB
AU663564	ROTARY SWITCH OFF LO HI LO
UE183	RESISTOR 3 OHM 50W 24V
UE016	THERMOSTAT DEICE STUD
UE064	PRESSURE SWITCH

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

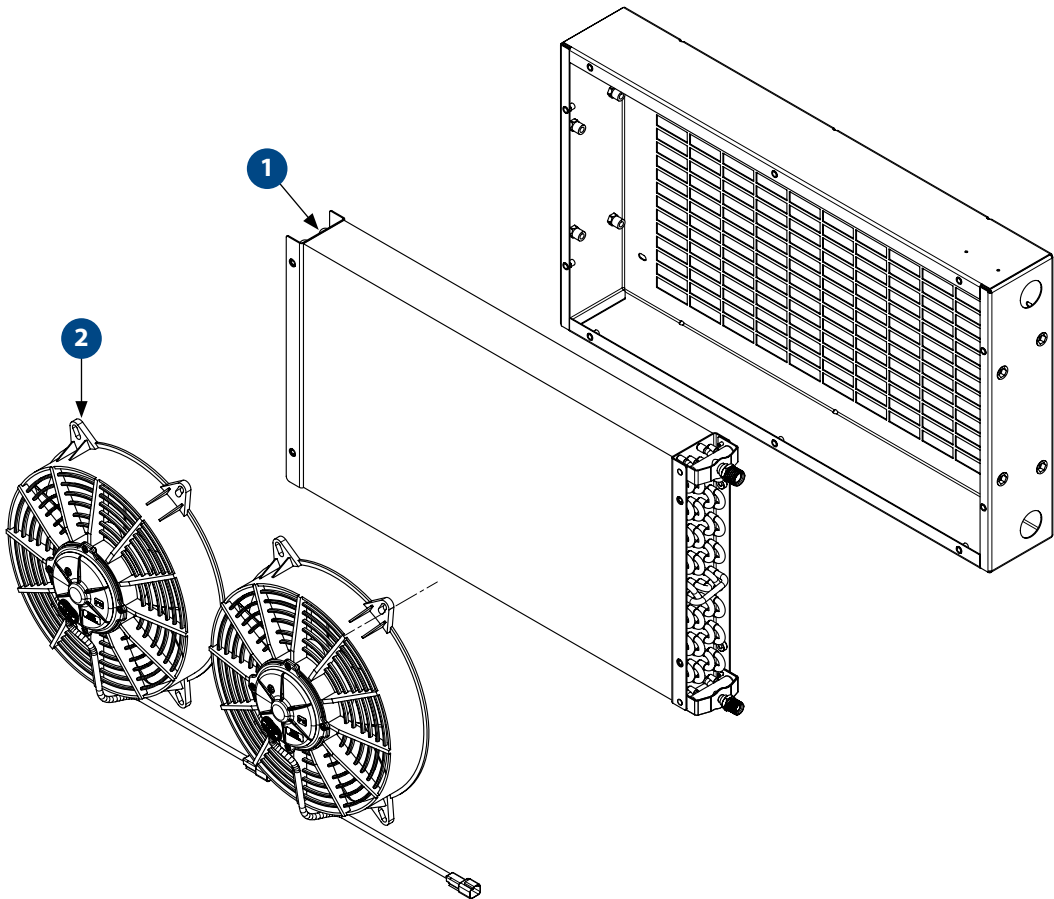
PART NO.	DESCRIPTION
EB9P4X	Pressuriser
HDC150	Hydraulic Compressor
AU270306E	Engine Driven Compressor (24V)
AU270307E	Engine Driven Compressor
AU270311E	Engine Driven Compressor
AU270312	Engine Driven Compressor



ECW6BX1

WALL MOUNTED CONDENSER

H0204590
Wall mounted Condenser 6.5kW 24 VDC



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 H0204604	CONDENSER COIL	1
2 H0207769	CONDENSER FAN ASSEMBLY	2

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	6.5kW	22,180 BTU
Fan Speeds	1	1
Power Supply	24VDC	24VDC
Current Draw	15 A	15 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	46°C	115 °F
Weight (nominal)	19.5 Kg	42.9lbs
Technical Manual Reference		
Dimension L X W X H	700mm X 405mm X 200mm	27.5 in X 15.9in X 7.8in

MAINTENANCE

ANNUAL / 3,600 HOURS	
H0207769	CONDENSER FAN ASSEMBLY

Please contact SIGMA for more information including details on an overhaul scope and interval.
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COMPANION ITEMS

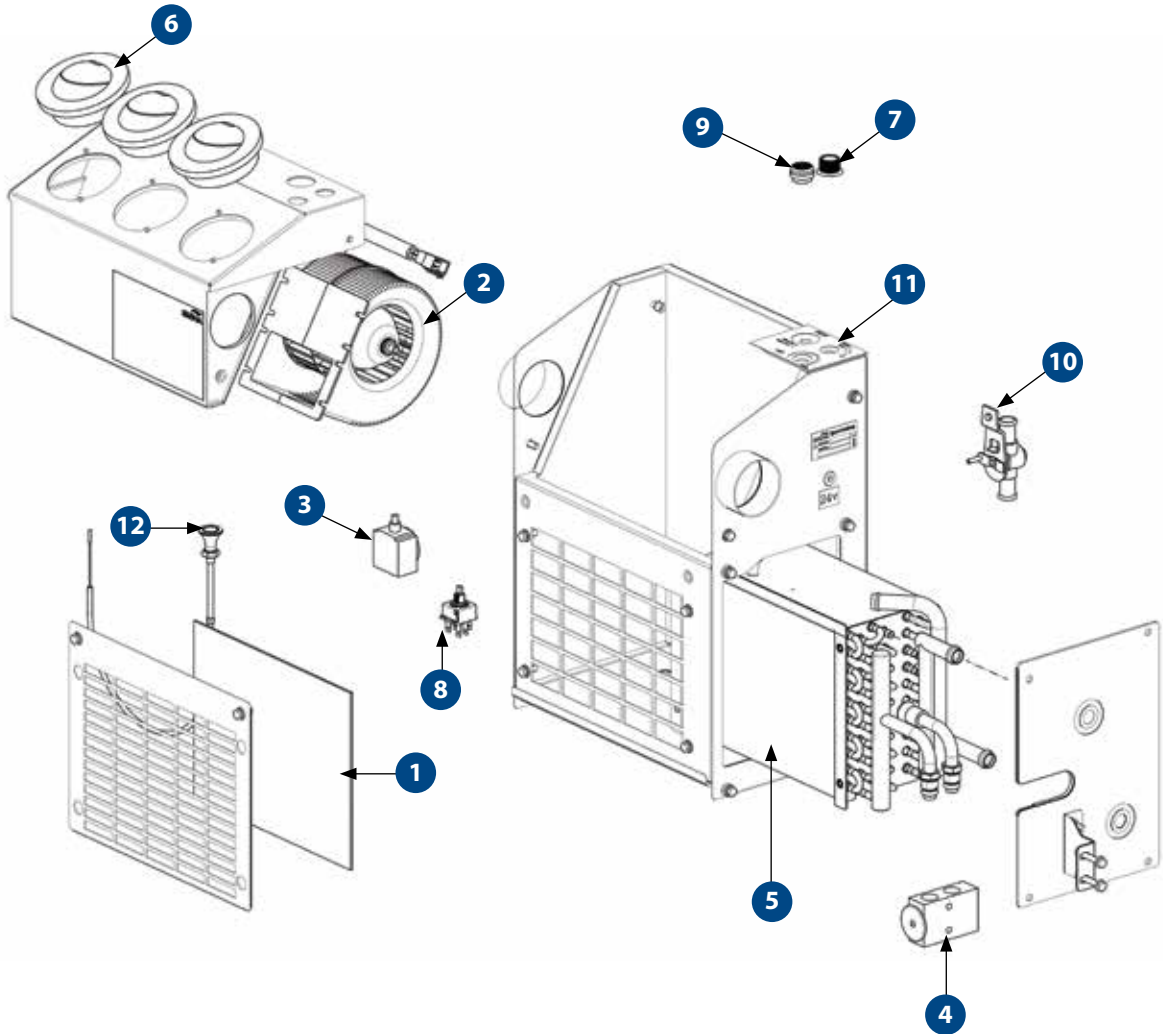
PART NO.	DESCRIPTION
EC22H4	Hoodliner Evap
EFF5BX3	Evap Floor Mounted
HDC170	Hydraulic Driven Compressor
AU270306	Engine Driven Compressor
AU270307	Engine Driven Compressor
AU531422	Receiver Drier
AU531601	Receiver Drier



EFF4

INTERNAL EVAPORATOR

EFF4BX1
Internal Evaporator 4kW 24V with Heating (4.5kW)



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 S3938009	FILTER MEDIA	1
2 AU4001001	FAN DECK 24V 3SPEED	1
3 UE016	THERMOSTAT DEICE STUD	1
4 AU521946	TX VALVE	1
5 AU1201012	EVAPORATOR + HEATER COIL 250MM X 190MM X 66MM	1
6 AU821301	DIFFUSER ROUND 75MM PLASTIC	3
7 UC451	KNOB 1/4 BLACK PLASTIC 21MM DIAMETER	1
8 UE335	ROTARY SWITCH 3-SPEED C/W NUT	1
9 UC022	KNOB SNOWFLAKE 6.35MM	1
10 AU744827	VALVE WATER 16MM	1
11 H0001668	LABEL - EVAPORATOR CONTROL	1
12 UC042	CABLE PUSH/PULL F/DRIVE 1500MM	1
UC504	DRAIN NOZZLE 13MM	2
AU552403	O-RING 134A SIZE 13/32" #8	2
UC020	HOSE CLEAR PVC 12 5MM ID	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	4.0 kW	13648 BTU
Heating Capacity	4 kW	13648 BTU
Fan Speeds	3	3
Air Flow	100 l/s	212 CFM
Power Supply	24V	24V
Current Draw	6 A	6 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	46°C	115°F
Weight (nominal)	15.0 Kg	33.0 lbs
Technical Manual Reference	SM518-3938	SM518-3938
Dimension L X W X H	390mm X 210mm X 455mm	15.3in X 8.2in X 17.9in

MAINTENANCE

MONTHLY / 500 HOURS	
S3938009	FILTER MEDIA
ANNUALLY / 5,000 HOURS	
AU4001001	FAN DECK 24V 3SPEED
3 YEARS / 15,000 HOURS	
UE016	THERMOSTAT DEICE STUD
AU521946	TX VALVE
UE335	ROTARY SWITCH 3 SPEED COMPLETE WITH NUT

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

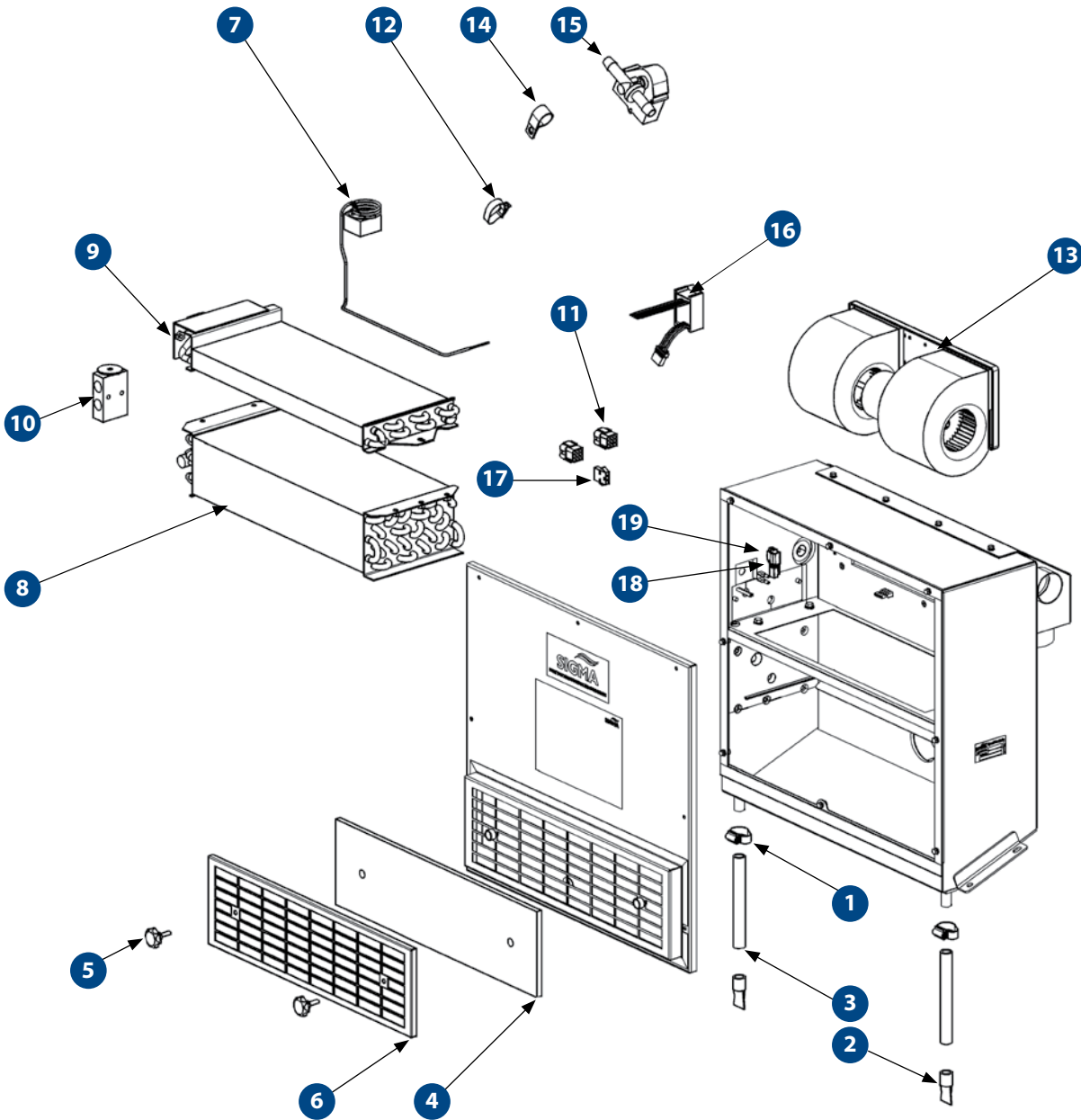
PART NO.	DESCRIPTION
EC12C4	Electric Condenser
EB9P4X	Pressuriser
HDC150	Hydraulic Compressor
AU2961001	Electric Compressor 24V
AU110388	Radiator Condenser
AU270306E	Engine Driven Compressor
AU270307E	Engine Driven Compressor
AU270311E	Engine Driven Compressor
AU270312E	Engine Driven Compressor
AU531422	Receiver Drier



EFF5

FLOOR MOUNTED EVAPORATOR

EFF5BX3
Floor Mounted Evaporator 5kW 24V with Heating (6kW)



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1	AU553610 CLAMP HOSE 19-28 MM OUTER DIAMETER	2
2	UC504 DRAIN NOZZLE 13MM	2
3	UC020 HOSE CLEAR PVC 12 5MM INTERNAL DIAMETER	1
4	H0093153 RETURN AIR FILTER	1
5	AU911852 SCR THUMB M6X20 SS THREAD	2
6	S3942530 AIR FILTER BACK PANEL	1
7	UE016 THERMOSTAT DEICE STUD	1
8	H0092745 EVAPORATOR COIL 416MM X 178MM X 95MM 6 ROW	1
9	H0092744 HEATER COIL 416MM X 178MM X 32MM 2 ROW	1
10	AU521946 THERMAL EXPANSION VALVE BLOCK 2T 3/8" IN 1/2" OUT R134A	1
11	AU6311012 9 WAY RECEPTACLE CONNECTOR	2
12	AU553611 HOSE CLAMP	2
13	AU400051 FAN DECK 24V 3SPEED	1
14	AU553565 P CLAMP / P CLIP FOR 23.8MM DIAMETER	1
15	AU5221004 2-PORT 5/8" ELECTRIC HEATER CONTROL VALVE	1
16	AU6811008 HEATER VALVE CONTROL MODULE	1
17	AU636042 3 WAY FEMALE RECEPTACLE PLUG	1
18	AU632374 PLUG 2 SOCKET + WEDGE	1
19	AU632373 2 PIN RECEPTACLE	1
	AU663118 ROTARY SWITCH 2 POSITION 45 DEGREE	1
	UC451 KNOB 1/4 BLACK PLASTIC 21MM DIAMETER	1
	UE335 ROTARY SWITCH 3 SPEED COMPLETE WITH NUT	1
	H0147952 WIRE HARNESS	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling (Nominal)	5.0 kW	17061 BTU
Heating Capacity	6.0 kW	20473 BTU
Fan Speeds	3	3
Air Flow	200 l/s	424 CFM
Fresh Air	10 l/s	21.2 CFM
Power Supply	24VDC	24VDC
Current Draw	13 A	13 A
Refrigerant	R134a	R134a
Minimum Ambient Temperature	-10°C	14°F
Maximum Ambient Temperature	54°C	129.2°F
Weight (nominal)	30 Kg	66.14 lbs

MAINTENANCE

MONTHLY / 300 HOURS	
H0093153	RETURN AIR FILTER
3 YEARS / 10,800 HOURS	
UE016	THERMOSTAT DEICE STUD
AU521946	TX VALVE BLOCK 2T 3/8" IN 1/2" OUT R134A
AU400051	FAN DECK 24V 3SPEED
AU5221004	2-PORT 5/8" ELECTRIC HEATER CONTROL VALVE
UE335	ROTARY SWITCH 3-SPEED COMPLETE WITH NUT
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.	

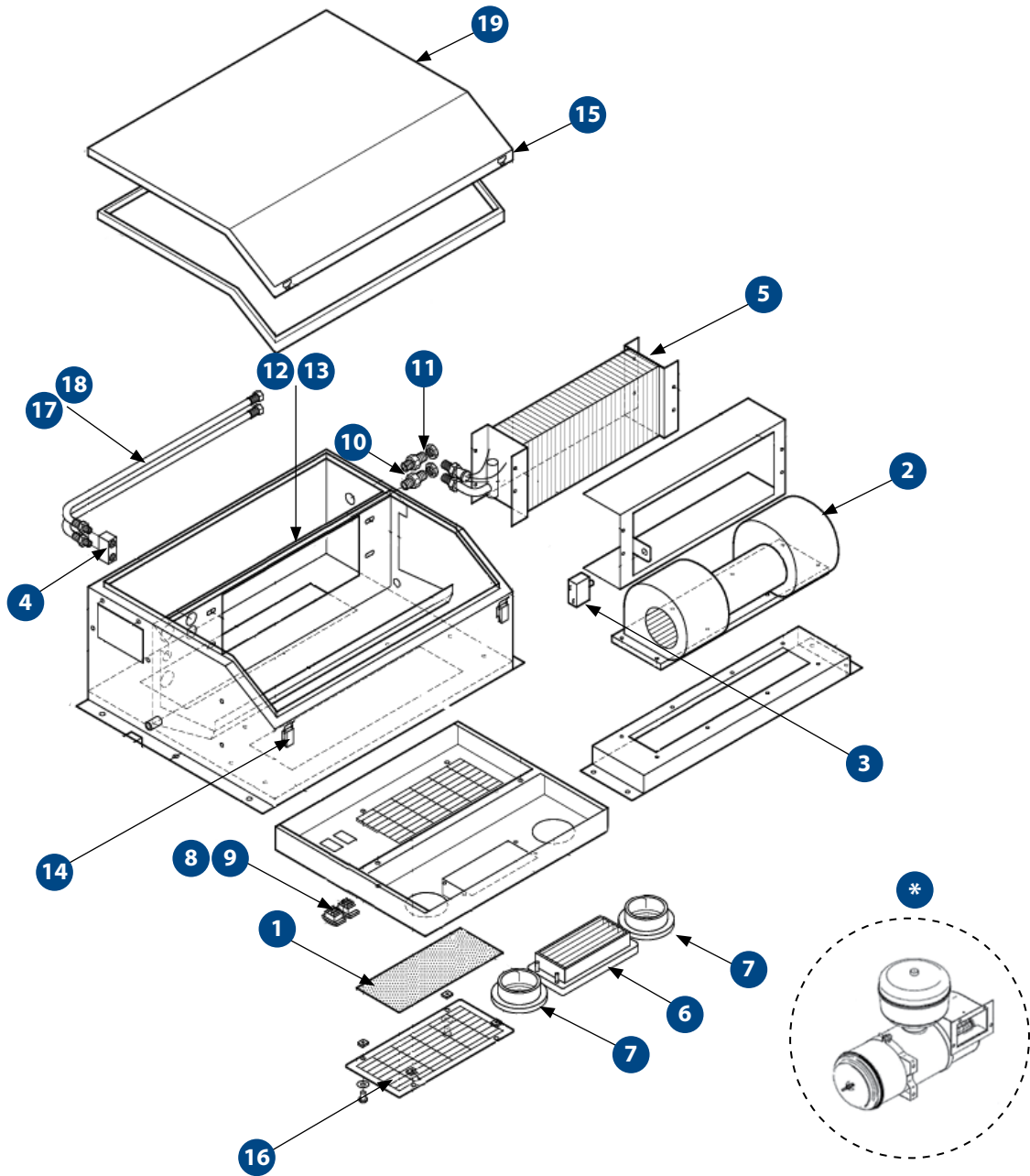
COMPANION ITEMS

PART NO.	DESCRIPTION
EB9P4X	Pressuriser (24VDC)
HDC150	Hydraulic Driven Compressor 150
AU110388	Condenser Coil 770X282X70 4RW
AU270306	Compressor UP170 2A 24V VMO 132 OD PAG
AU270307	Compressor UP170 1B 24V VMO 135 PAG
AU270311	Compressor UP150 2A 24V VMO 132 OD PAG
AU270312	Compressor UP150 1B 24V VMO 135 OD PAG
AU531422	Receiver Drier with Sight Glass
EC22C4	Light Duty Condenser (24VDC)



EFR4 EVAPORATOR

EFR4BX1
Rooftop Evaporator 4kW 24V (Pressuriser not included)



* SEE EB9P4 (PAGE 29) AND EB9P4X (PAGE 31) FOR PRESSURISER SPARE PARTS AND MAINTENANCE

SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 S2501180	RETURN AIR FILTER MEDIA	1
2 AU400034	FAN DECK 24V 3SPEED	1
3 UE016	THERMOSTAT DEICE STUD	1
4 AU521946	TX VALVE	1
5 AU120480	EVAPORATOR COIL 345MM X 152MM X 79MM 4RW EC12	1
6 AU821707	DIFFUSER 196MM X 83MM PLASTIC	1
7 AU821708	LOUVRE ROUND 3" HOLE	2
8 AU662969	SWITCH ROCKER IP68 24V 15A	1
9 AU662968	SWITCH ROCKER IP68 24V 15A GREEN LED	1
10 AU512C067	BULKHEAD FITTING O-RING 5/8"	1
11 AU512C065	BULKHEAD FITTING O-RING 3/8"	1
12 AU862213	SEAL RUBBER	1
13 AU862211	SEAL RUBBER	3
14 UC048	LATCH TOGGLE OVER-CENTRE	4
15 UC047	KEEPER PLATE ZP	4
16 S25011725	RETURN AIR FILTER COVER	1
17 AU5551004	SUCTION LINE HOSE ASSEMBLY #10	1
18 AU5551005	LIQUID LINE HOSE ASSEMBLY #6	1
19 H0340232	EVAPORATOR COVER	1

* SEE EB9P4 (PAGE 29) AND EB9P4X (PAGE 31) FOR PRESSURISER SPARE PARTS AND MAINTENANCE

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	4.0 kW	13648 BTU
Fan Speeds	3	3
Air Flow	100 l/s	212 CFM
Fresh Air	30 l/s	64 CFM
Power Supply	24VDC	24VDC
Current Draw	8 A	8 A
Refrigerant	R134A	R134A
Maximum Ambient Temperature	46°C	115°F
Weight (nominal)	25.0 Kg	55.0 lbs
Dimension L X W X H	470mm X 600mm X 260mm	18.5in X 23.6in X 10.2in

MAINTENANCE

MONTHLY / 300 HOURS	
S2501180	RETURN AIR FILTER MEDIA
ANNUAL / 3,600 HOURS	
AU400034	FAN DECK 24V 3SPEED
3 YEARS / 10,800 HOURS	
UE016	THERMOSTAT DEICE STUD
AU521946	TX 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.	

COMPANION ITEMS

PART NO.	DESCRIPTION
EB9P4X	Pressuriser
HDC150	Hydraulic Compressor
AU2961001	Electric Compressor (24V)
AU110388	Radiator Condenser
AU270306E	Engine Driven Compressor
AU270307E	Engine Driven Compressor
AU270311 E	Engine Driven Compressor
AU531422	Receiver Drier
AU1101021	Radiator Condenser

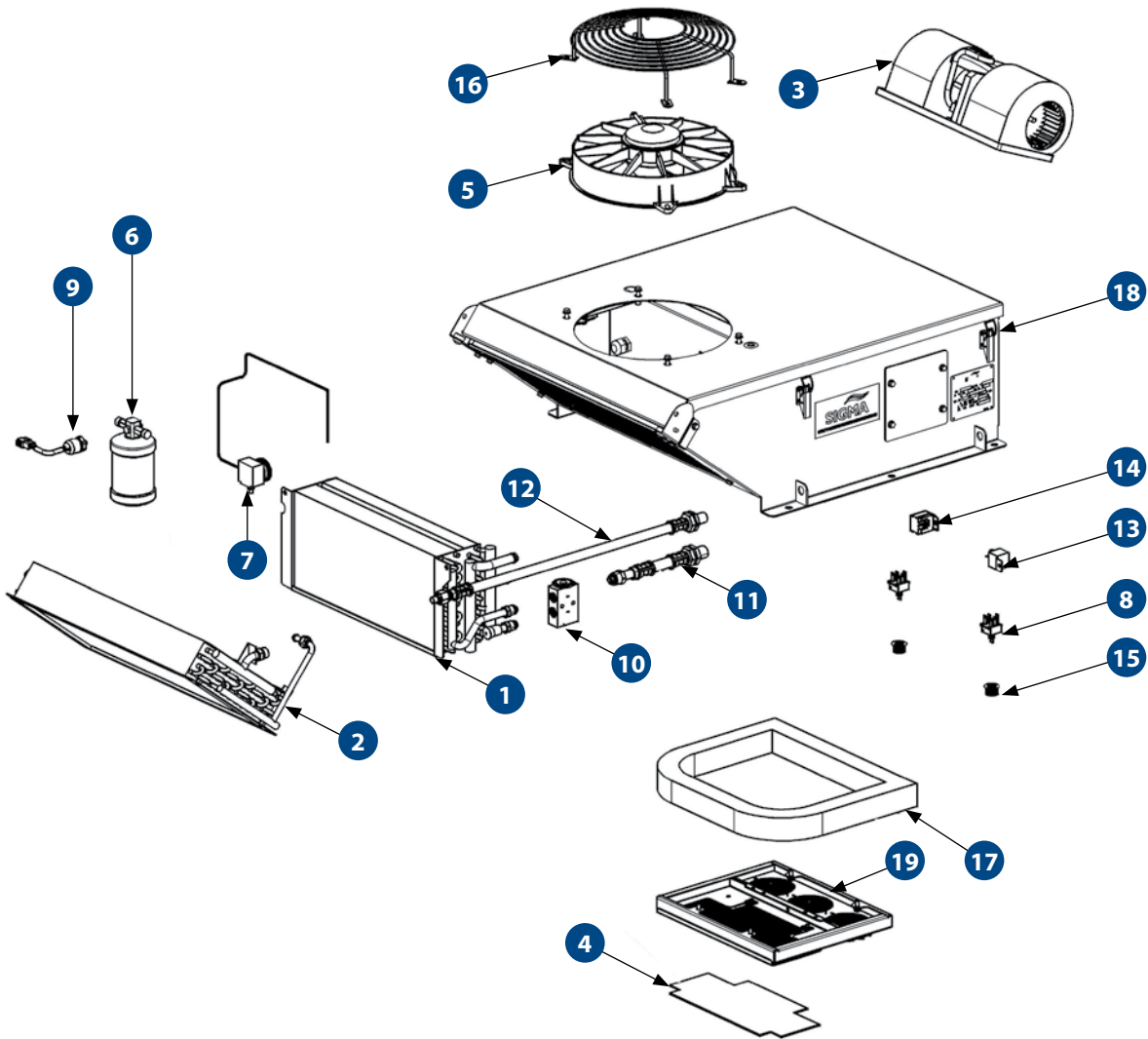


EPR4

ROOFTOP PACKAGED HVAC UNIT

EPR4AX1
Rooftop Packaged HVAC 4.5kW 12V

EPR4BX1
Rooftop Packaged HVAC 4.5kW 24V



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1	H0032385 EVAPORATOR HEATER COIL	2
2	H0002358 CONDENSER COIL	2
3	AU400050 BLOWER ASSEMBLY 3SPEED 12V (EPR4AX1) H0088451 BLOWER ASSEMBLY 3SPEED 24V (EPR4BX1)	1 1
4	H0044857 PLENUM RETURN AIR FILTER MEDIA	1
5	H0097521 CONDENSER FAN ASSEMBLY 280MM 12V (EPR4AX1) H0088425 CONDENSER FAN ASSEMBLY 280MM 24V (EPR4BX1)	1 2
6	AU531422 RECEIVER DRIER 134A	2
7	UE016 THERMOSTAT DEICE STUD	2
8	UE335 SWITCH 3-SPEED C/W NUT	2
9	UE064 HIGH / LOW PRESSURE SWITCH	1
10	H0092214 TX VALVE BLK 1.5T R134A	1
11	H0052679 FLEX HOSE #10 MOR-FTG B/HD & STR	1
12	H0052678 FLEX HOSE #8 MOR-FTG B/HD & STR	1
13	AU661482 RELAY 30A 12V (EPR4AX1) AU661483 RELAY 20A 24V (EPR4BX1)	3 1
14	ERR023 RELAY BASE 5 PIN (PANEL MOUNT) AX1 RELAY BASE 5 PIN (PANEL MOUNT) BX1	3 1
15	UC451 KNOB 1/4 BLACK PLASTIC 21MM DIAMETER	2
16	H0047048 CONDENSER FAN GUARD	1
17	H0042481 EPR4 ROOF SEAL	1
18	UC048 TOGGLE	4
19	AU821704 DIFFUSER ROUND 92MM PVC	1
	H0283545 DIODE FOR EPR4AX1	1

COMPANION ITEMS

PART NO.	DESCRIPTION
H0038939	Heater Kit (24V)
H0097524	Heater Kit (12V)
EB9P4X	Pressuriser (24V)
HDC150	Hydraulic Compressor
AU2961001	Electric Compressor (24V)
AU270306E	Engine Driven Compressor
AU270307E	Engine Driven Compressor
AU270311E	Engine Driven Compressor

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	4.5 kW	15354 BTU
Heating Capacity (with Optional Kit)	4.0 kW	13648 BTU
Fan Speeds	3	3
Air Flow	150 l/s	318 CFM
Power Supply	12V / 24V	12V / 24V
Current Draw	40 A / 20 A	40 A / 20 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	46°C	115°F
Weight (nominal)	47 kgs	103.4 lbs
Technical Manual Reference	HD0019477	HD0019477
Dimension (L X W X H)	804mm X 650mm X 364mm	31.7in X 25.6in X 14.3in

MAINTENANCE

MONTHLY / 300 HOURS	
H0044857	PLENUM RETURN AIR FILTER MEDIA
ANNUAL / 3,600 HOURS	
AU400050	BLOWER ASSEMBLY 3SPEED 12V (EPR4AX1)
H0088451	BLOWER ASSEMBLY 3SPEED 24V (EPR4BX1)
H0097521	CONDENSER FAN ASSEMBLY 280MM 12V (EPR4AX1)
H0088425	CONDENSER FAN ASSEMBLY 280MM 24V (EPR4BX1)
AU531422	RECEIVER DRIER 134A
3 YEARS / 10,800 HOURS	
UE016	THERMOSTAT DEICE STUD
UE335	SWITCH 3-SPEED C/W NUT
UE064	HIGH / LOW PRESSURE SWITCH
H0092214	THERMAL EXPANSION VALVE BLOCK 1.5T R134a
H0002358	CONDENSER COIL
H0032385	EVAPORATOR HEATER COIL

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.



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SIGMA

AUTHORISED SIGMA
DEALER



SIGMA

BUILT FOR THE TOUGHEST AIR CONDITIONS