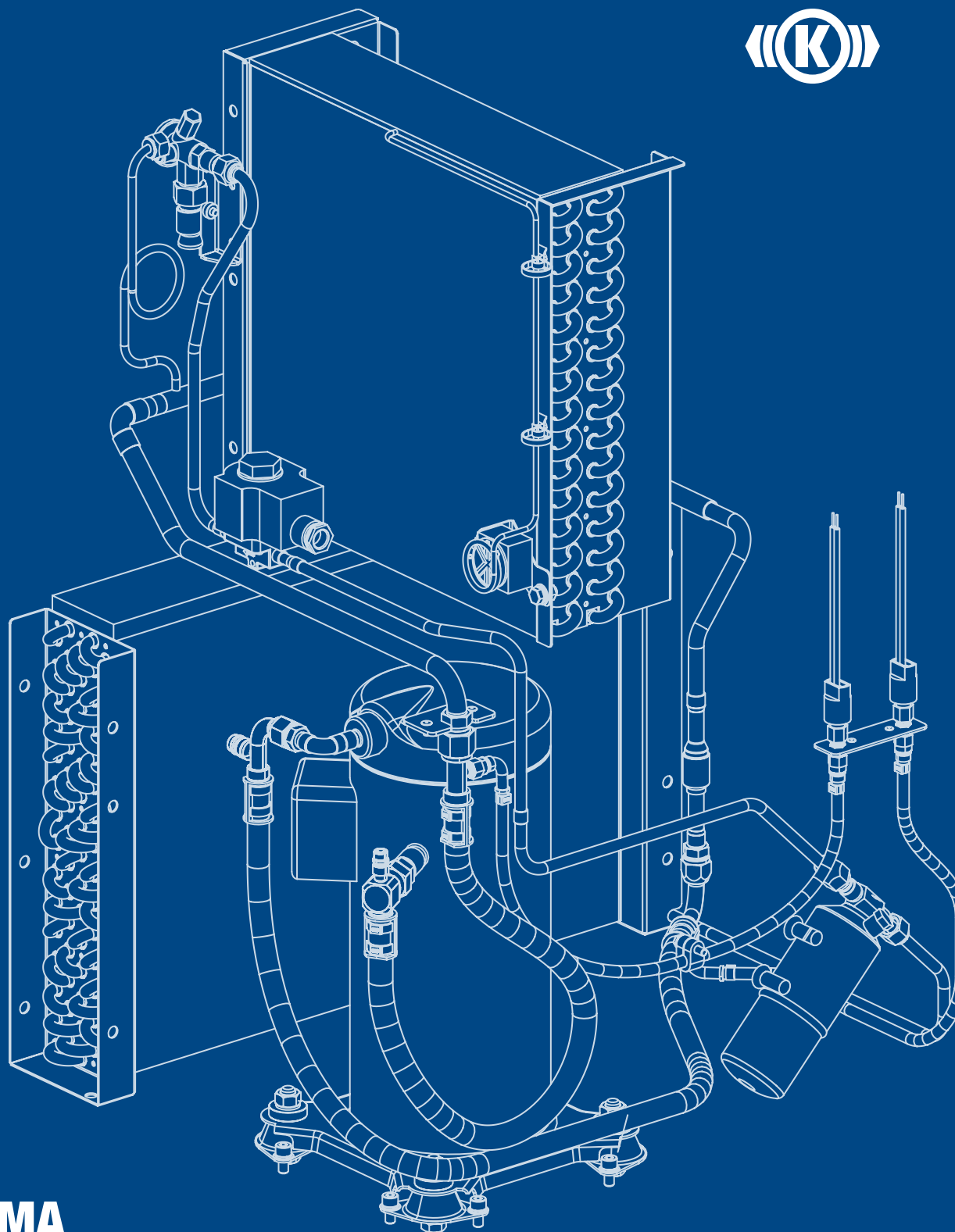




SIGMA

HVAC SPARE PARTS CATALOGUE

LEADING THERMAL MANAGEMENT SOLUTIONS

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Our Mission, Vision & Values

LEADING THERMAL MANAGEMENT SOLUTIONS

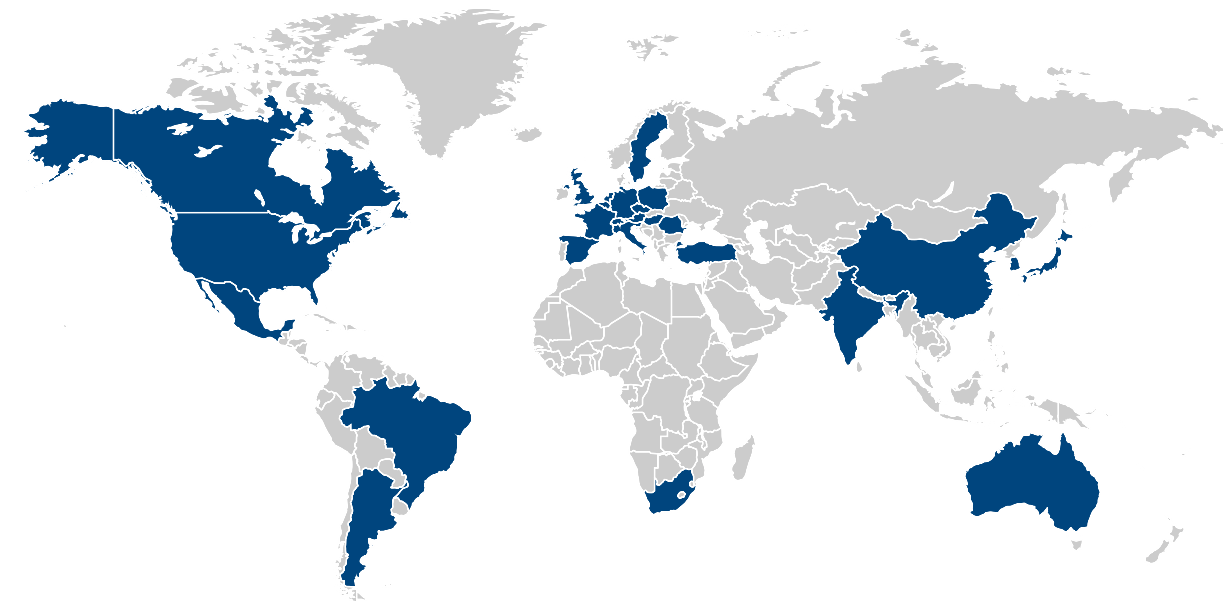
We aim to make a positive contribution to sustainability and efficiency on mines, industry and defence – both for our customers and our environment. Every day. All over the world.

Our Mission
To engineer thermal management solutions in collaboration with our partners and deliver sustainable class-leading heating & cooling solutions

Sigma Air Conditioning, a division of the Knorr-Bremse Group based in Munich Germany, is the world’s leading provider of system solutions for rail and commercial vehicles.

Designed and engineered in Australia for global deployment, with over 65 years of experience in specialised HVAC solutions, we develop and design bespoke Heavy Duty Thermal Management Systems for the Mining, Industrial, Defence, Track maintenance markets, and are an OEM supplier to global brands.

From custom designs to providing Installation & maintenance services, we are Driven to Create the Best Solutions.



GLOBAL PRESENCE
LOCAL EXPERTISE

OUR INDUSTRIES

MINING

INDUSTRIAL

DEFENCE

MINING SOLUTIONS

SIGMA mining equipment is designed to the highest of industry standards to suit the harshest of mining conditions. Designed and engineered for production critical machines to withstand extreme ambient temperatures, punishing shock & vibration loads and dust saturated atmospheres.

INDUSTRIAL SOLUTION

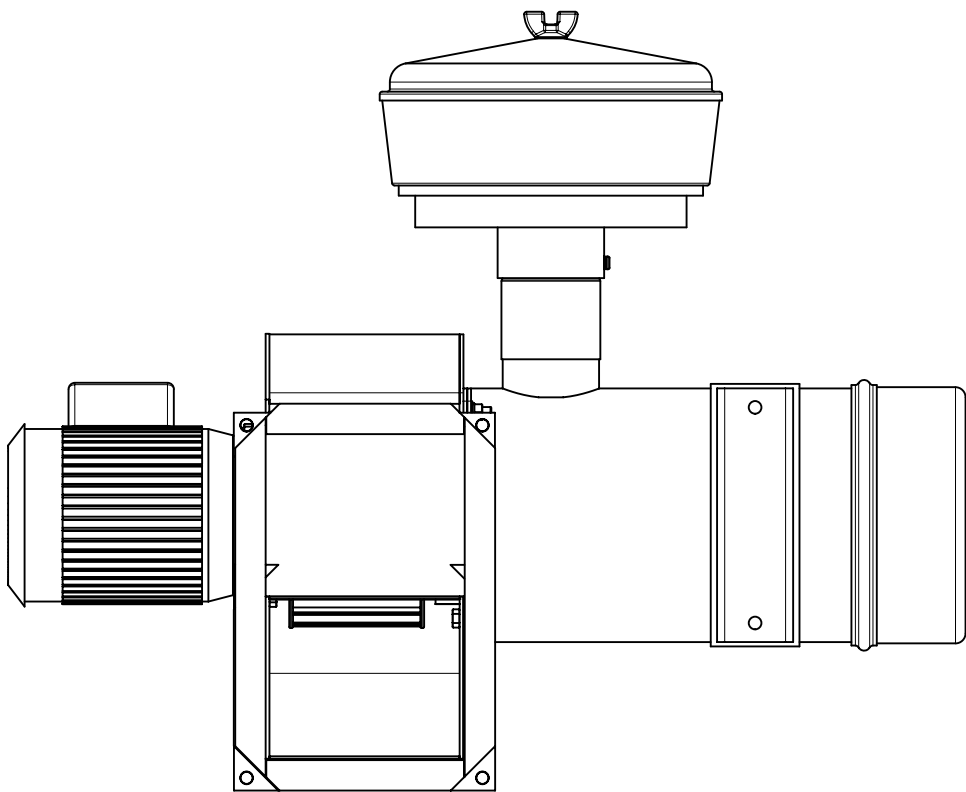
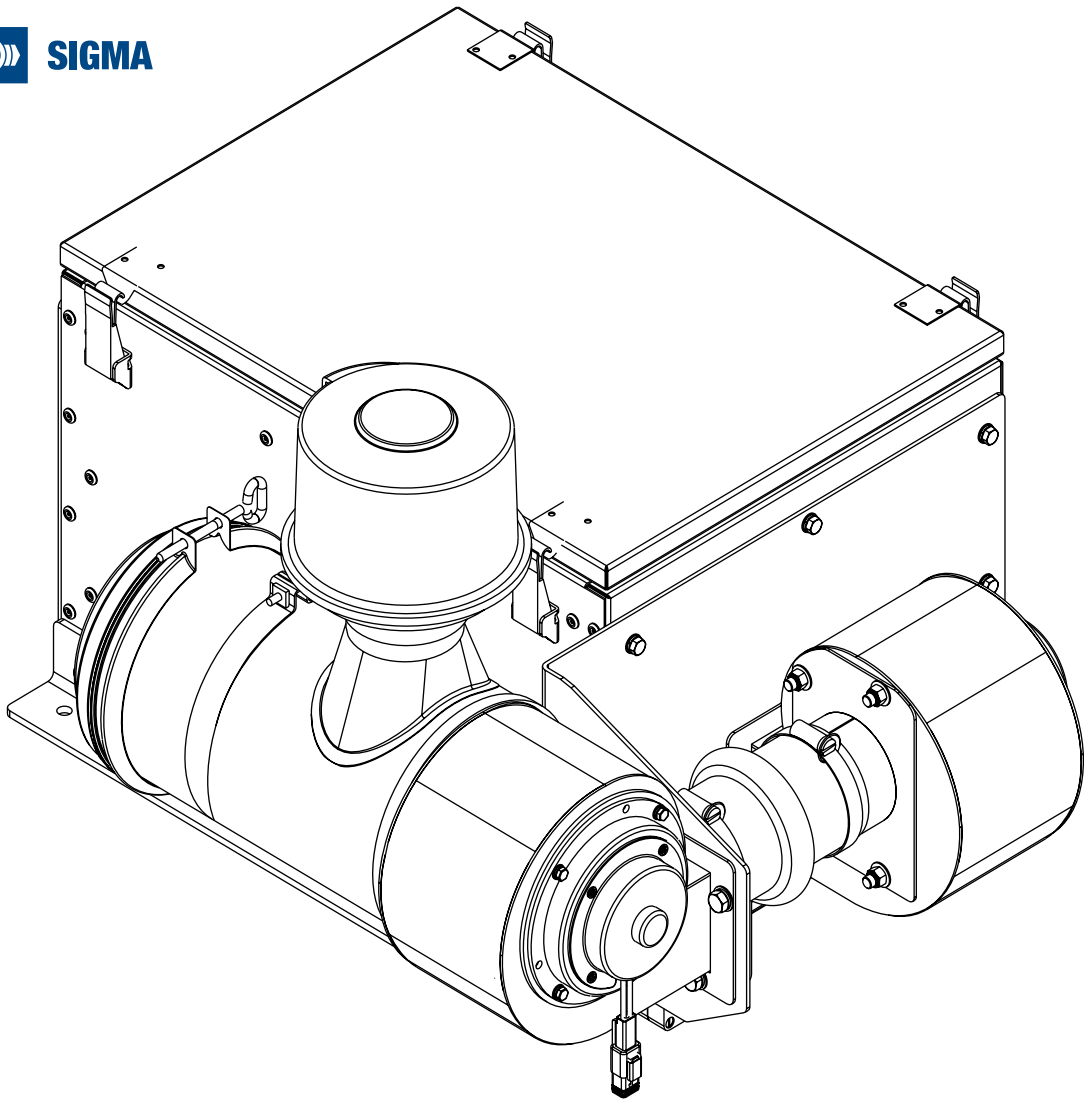
The SIGMA range of industrial air conditioning equipment is specifically designed to operate in dust laden corrosive environments and very high ambient temperatures of up to 65°C (149°F). These include aluminium smelters, refinery operated cabins, earthmoving equipment, ports, construction, cranes, switch rooms and other production critical industrial equipment.

DEFENCE SOLUTION

The SIGMA brand comprises a complete range of bespoke air conditioning solutions, with a product to suit specific defence projects and applications. SIGMA offer unique equipment to suit both static and mobile applications for protected mobility and deployable health shelters within the defence industry

TRACK MAINTENANCE

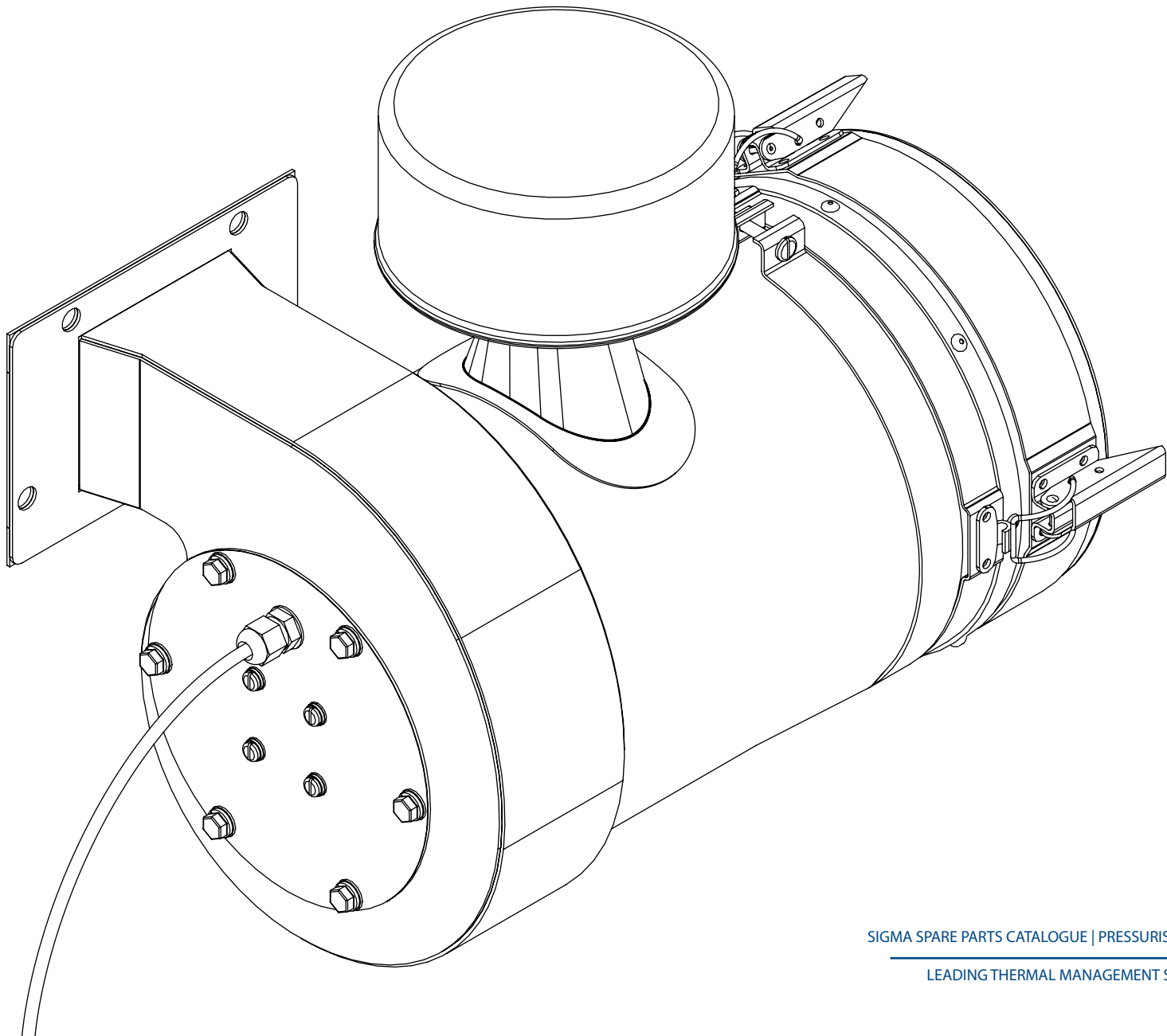
Drivers' comfort and safety is an important aspect to ensure the safe operation of rolling stock networks globally. SIGMA's track maintenance and locomotive driver's cab air conditioning and HEPA filtration systems have been designed to operate in some of the harshest conditions around the world, where ambient temperatures exceed 50°C (122°F).



PRESSURISERS

Developed for environments containing gaseous or fibrous contaminants, the filter/pressuriser systems contain up to five (5) stages of filtration. The first two (2) stages of filtration efficiently remove sub-micron particulate from outside air, following by stage 3 customised filtration media to remove the specific gaseous or fibrous contaminant and finally stage 5 HEPA filtration

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H0673984 WALL MOUNT	8
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DRILL



EXCAVATOR



FORKLIFT & TELEHANDLERS



OVERHEAD CRANE



RAIL SPECIAL VEHICLE



TRUCK



UNDERGROUND EQUIPMENT



WHEEL LOADER



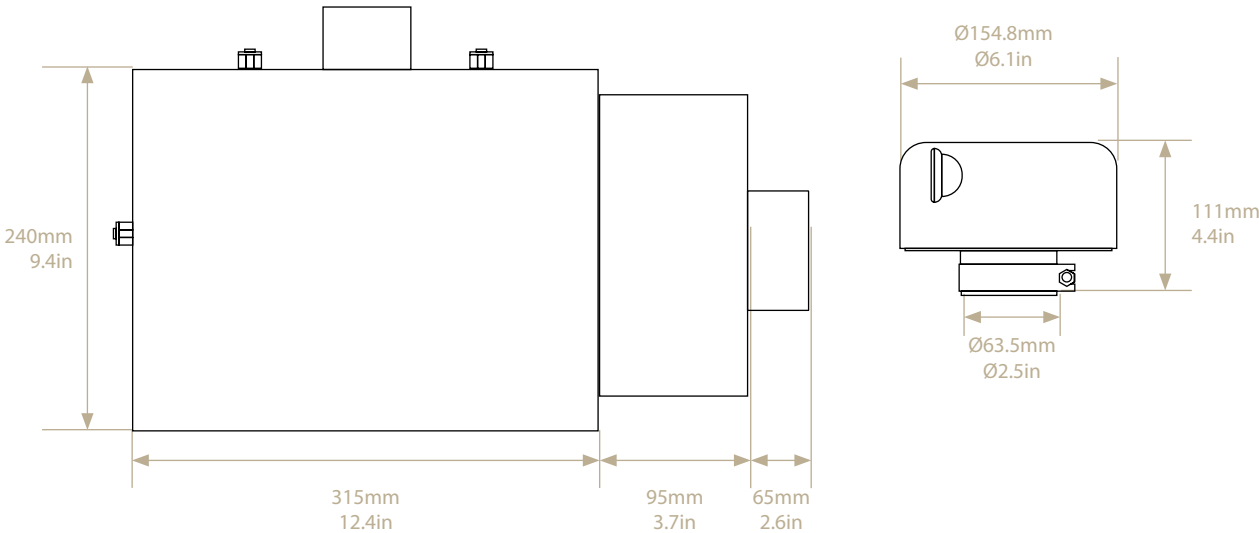
FPS55

PRESSURISER

H0111417
Compact HEPA Filtration Pressuriser System

**AIR FLOW**
22 l/s
42 CFM

**POWER SUPPLY**
24VDC



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 H0116836	FILTER 16 / 79ID x 206OD x 288H EN15695	1
2 AU460748	CENTRIFUGAL PRE-CLEANER	1
3 H0133899	2-1/2 INCH ADAPTOR	1
4 H0133903	24V MOTOR W / MOTOR MOUNTING	1
5 H0133900	FILTER ACCESS PANEL, SERIES SS	1

WHY HEPA FILTER?

BREATHE EASIER WITH THE SIGMA HEPA FILTER
The Workplace Health & Safety (WHS) and Mine Safety & Health Administration (MSHA) solution for dust saturated atmospheres and harmful toxic working environments.

Ensuring cabin air is safe to breathe and free from airborne contaminants including pesticide, asbestos, silica dust, fine coal dust and diesel particulate matter. To ensure risk for the coal mine operators is at an acceptable level.

SPECIFICATIONS

	METRIC	IMPERIAL
Fan Speeds	1	1
Air Flow	22 l/s	47 CFM
Power Supply	24 VDC	24 VDC
Current Draw	1.6 A	1.6 A
Weight (nominal)	20.0 Kg	44.0 lbs
Dimension (L X W X H)	475 mm X 240 mm X 360 mm	18.70 in X 9.44 in X 14.17 in

MAINTENANCE

MONTHLY / 300 HOURS	
H0116835	FILTER 16 / 79ID X 206OD X 288 H
H0116836	FILTER 16 / 79ID X 206OD X 288 H EN15695
3 YEARS / 10,800 HOURS	
H0133903	24V MOTOR W / MOTOR MOUNTING
H0133904	12V MOTOR W / MOTOR MOUNTING
AU460748	CENTRIFUGAL PRE-CLEANER

H13 HEPA FILTER

PART NO.	DESCRIPTION
PART NO.	H0116836
HEPA GRADE	H13
FILTRATION EFFICIENCY	*99.95% for particles diameter 0.3 µm
FILTER DIMENSION	206 mm OD x 288 mm

*On qualified cabins

COMPANION ITEMS

PART NO.	DESCRIPTION
H0133905	3 INCH INLET ADAPTOR
KNHV90073	GENERIC SITE INSTALL KIT
AU682070 KIT500001	AIR FLOW AND MONITORING SWITCH AIR FLOW SWITCH DUCT SUITS
H0552762 H0552763 H0552775 H0548482	INTERNAL SENSOR, INCLUDING SOFTWARE EXTERNAL SENSOR, INCLUDING SOFTWARE DISPLAY WITH SOFTWARE, RS485-CAN WIRING HARNESS,AIR QUALITY, MAIN CAB



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WHEEL LOADER



FVV40

BRUSHLESS VARIABLE FAN MOTOR PRESSURISER

H0481841
Fresh Air Pressuriser, ROOF MOUNT

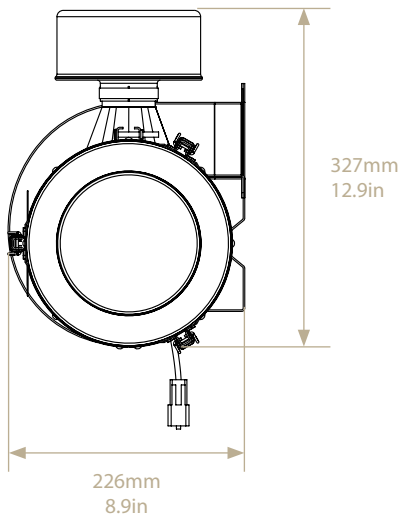
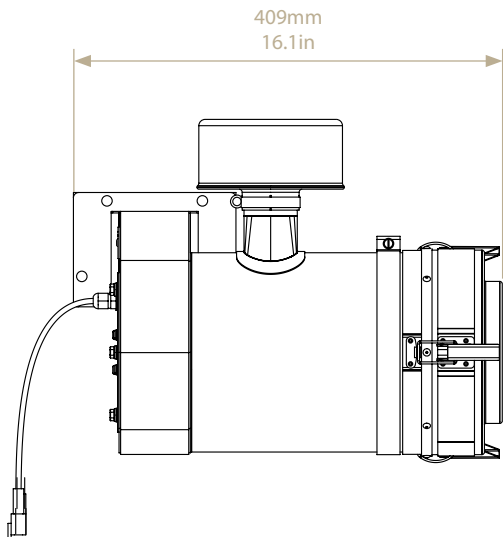
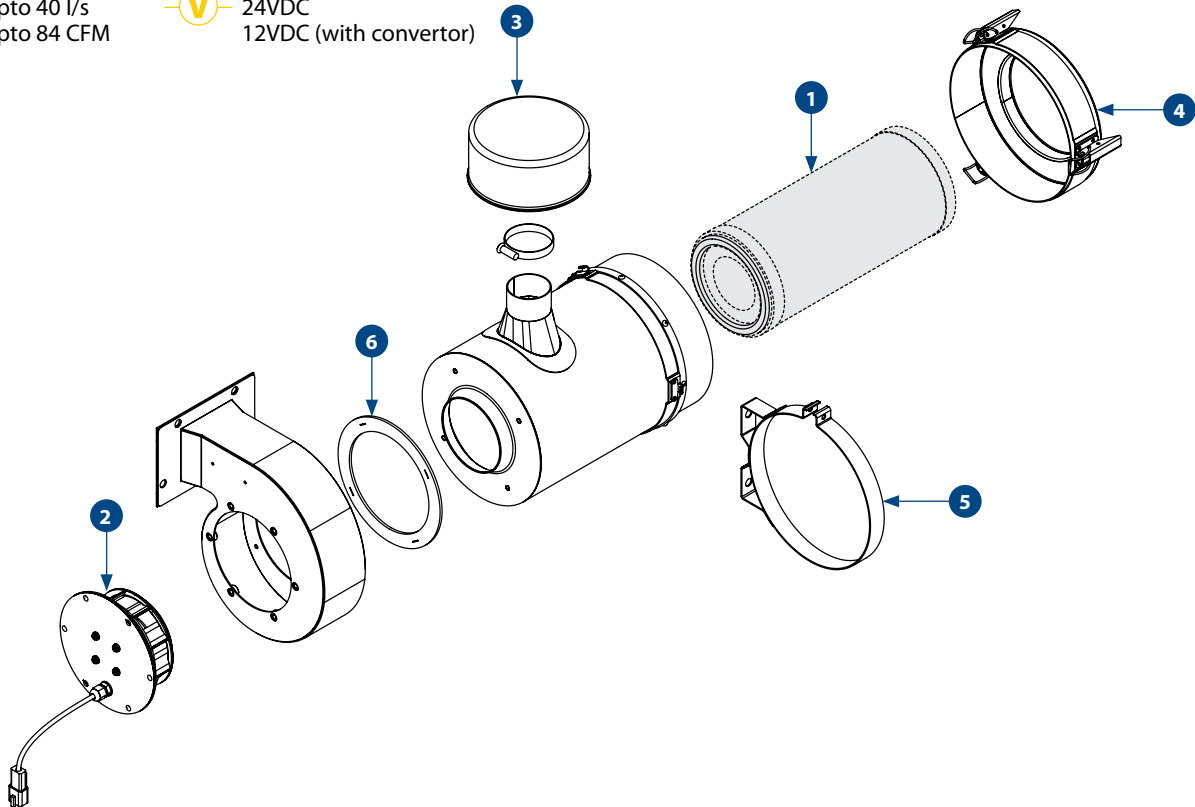
H0614665
Fresh Air Pressuriser, WALL MOUNT

H0673983
Fresh Air Pressuriser, WALL MOUNT 270

H0673984
Fresh Air Pressuriser, WALL MOUNT

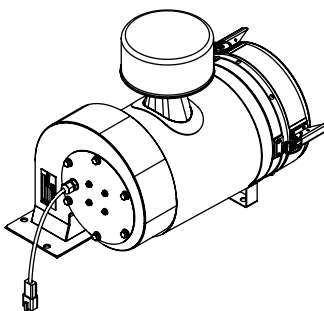
AIR FLOW
upto 40 l/s
upto 84 CFM

POWER SUPPLY
24VDC
12VDC (with convertor)

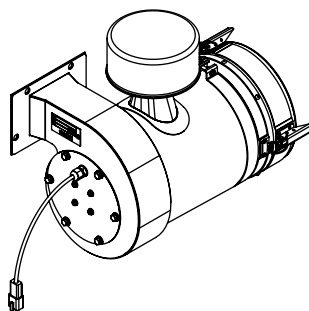


SPARE PARTS

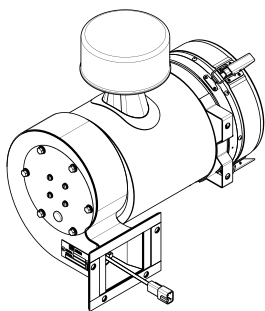
PART NO.	DESCRIPTION	QTY
OPTIONAL FILTER (SOLD SEPARATELY)		
1 H0602294	H13 HEPA FILTER	1
H0602295	F7 FILTER	1
2 H0654966	FAN MOTOR ASSEMBLY FOR H0614665 & H0481841	1
H0679908	FAN MOTOR ASSEMBLY FOR H0673983 & H0673984	1
3 H0602293	PRE CLEANER TS 2" INLET	1
4 H0482389	AIR CLEANER CAP	1
5 H0484682	MOUNTING BAND AIR CLEANER 7.5" DIA	1
6 H0615028	SEAL GASKET CANISTER	1



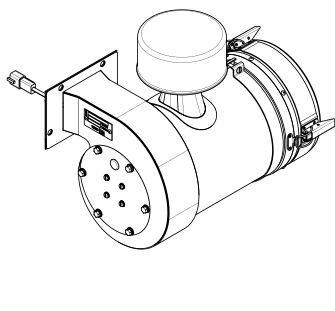
H0481841
Fresh Air Pressuriser,
ROOF MOUNT



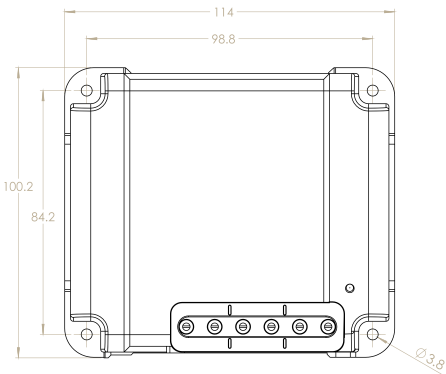
H0614665
Fresh Air Pressuriser,
WALL MOUNT



H0673983
Fresh Air Pressuriser,
WALL MOUNT 270



H0673984
Fresh Air Pressuriser,
WALL MOUNT



H0694212
DC/DC CONVERTER
12V to 24V 5A 120W

H13 HEPA FILTRATION OPTION

PART NO.	DESCRIPTION
PART NO.	H0602294
HEPA GRADE	H13
TEST STANDARD	EN 1822 or equivalent
FILTRATION EFFICIENCY	*99.95% for particles diameter 0.3 µm
FILTER DIMENSION	132mm OD x 292 mm

*On qualified cabins

SPECIFICATIONS

	METRIC	IMPERIAL
Fan Speeds	variable	variable
Air Flow (H13 HEPA)	35 l/s	74 CFM
Air Flow (F7 FILTER)	40 l/s	84 CFM
Power Supply	24 VDC 12VDC (with convertor)	24 VDC 12VDC (with convertor)
Current Draw	2.5 A	2.5 A
Weight (nominal)	8.0 Kg	17.6 lbs
Dimension (L X W X H)	409 mm X 226 mm X 327 mm	16.1 in X 8.9 in X 12.9 in

MAINTENANCE

MONTHLY / 300 HOURS

H0602294	H13 HEPA FILTER
H0602295	F7 FILTER

3 YEARS / 10,800 HOURS

H0654966	FAN MOTOR ASSEMBLY
H0602293	PRE CLEANER TS 2" INLET

COMPANION ITEMS

PART NO.	DESCRIPTION
H0602294	H13 HEPA FILTER
H0602295	F7 FILTER
H0679980	WIRING HARNESS
H0694212	DC/DC CONVERTER,12V to 24V 5A 120W
H0688071	MOUNTING BAND WITH BASE
AU682070 KIT500001	AIR FLOW AND MONITORING SWITCH AIR FLOW SWITCH DUCT SUITS AU682070
H0552762 H0552763 H0552775 H0552778 H0548482	INTERNAL SENSOR, INCLUDING SOFTWARE EXTERNAL SENSOR, INCLUDING SOFTWARE DISPLAY WITH SOFTWARE, RS485-CAN CONTROLLER, AIR QUALITY WIRING HARNESS,AIR QUALITY, MAIN CAB



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WHEEL LOADER



FVV50M1

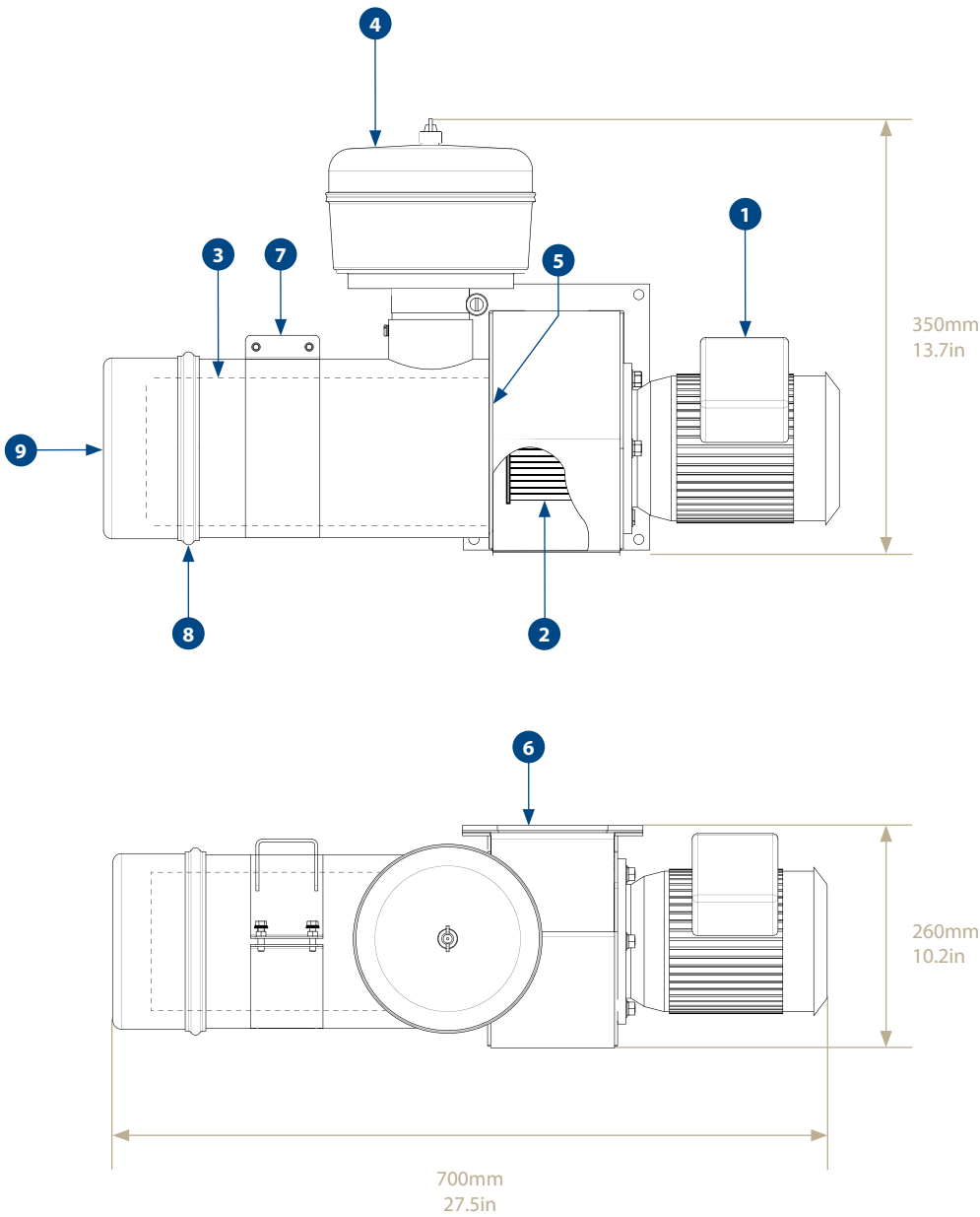
PRESSURISER

FVV50M1
Fresh Air Pack MS Series AC



AIR FLOW
50 l/s
106 CFM

POWER SUPPLY
415 VAC



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU304150	MOTOR 0.55KW 415V 71 FL 2P	1
2 AU410606	BLOWER 120D X 89W X 14MM CW SINGLE INLET	1
3 AU460080	FILTER CART ENDURANCE Previously AU460706	1
4 AU460725	FILTER PRE-CLEANER 186MM - STANDARD	1
5 F1626010	GASKET FRESH AIR UNIT	1
6 F1626039	GASKET FRESH AIR UNIT	1
7 AS161638	BRACKET AIR CLEANER ASSY	1
8 H0056158	CLAMP ASSEMBLY 168MM INTERNAL DIAMETER	1
9 AU460707	FILTER END COVER	1
AU460708	FILTER CAP RUB BAFFLE	1
AU460721	FILTER WING NUT	1

SPECIFICATIONS

	METRIC	IMPERIAL
Fan Speeds	1	1
Air Flow	50 l/s	106 CFM
Power Supply	415 VAC	415 VAC
Current Draw	1.2 A	1.2 A
Weight (nominal)	40.0 Kg	88.2 lbs
Dimension (L X W X H)	700 mm X 260 mm X 350 mm	27.5 in X 10.2 in X 13.7 in

MAINTENANCE

MONTHLY / 300 HOURS

AU460080	FILTER CART ENDURANCE FVV50B
----------	------------------------------

3 YEARS / 10,800 HOURS

AU410606	BLOWER 120D X 89W X 14MM CW SINGLE INLET
AU460725	FILTER PRE-CLEANER 186MM - STANDARD
AU304150	MOTOR 0.55KW 415V 71 FL 2P

COMPANION ITEMS

PART NO.	DESCRIPTION
AU460964	PRE-CLEANER TS 2.5" INLET SMALL (OLD VERSION)
AU682070 KIT500001	AIR FLOW AND MONITORING SWITCH AIR FLOW SWITCH DUCT SUITS
H0552762 H0552763 H0552775 H0548482	INTERNAL SENSOR, INCLUDING SOFTWARE EXTERNAL SENSOR, INCLUDING SOFTWARE DISPLAY WITH SOFTWARE, RS485-CAN WIRING HARNESS,AIR QUALITY, MAIN CAB



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TRUCK



UNDERGROUND EQUIPMENT



WHEEL LOADER



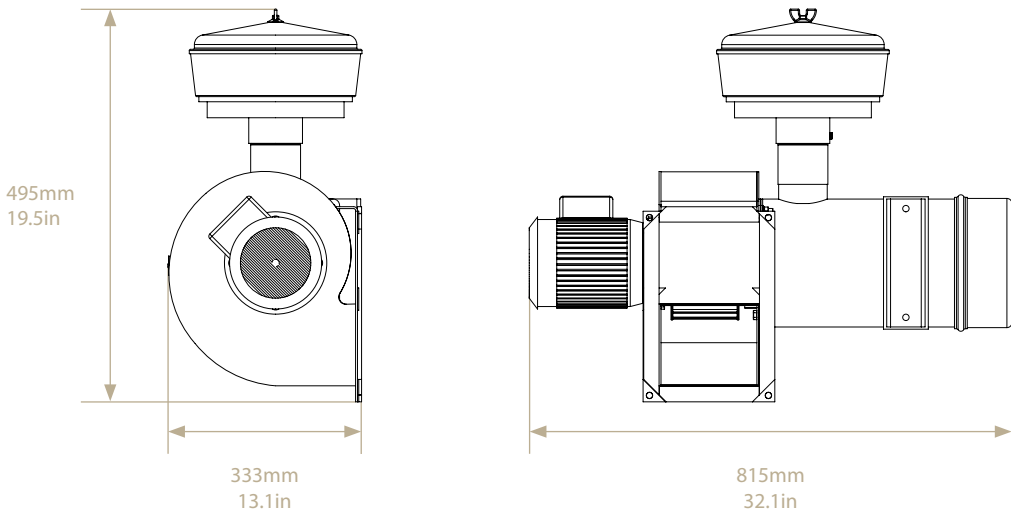
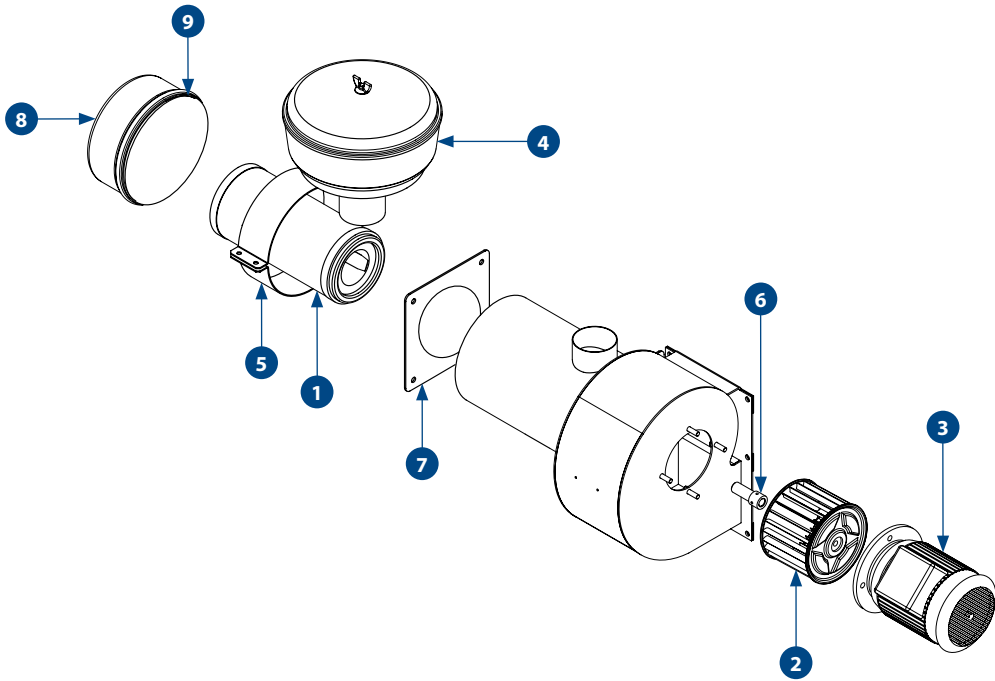
FVV100

PRESSURISER

FVV100MR1
Fresh Air Pressuriser

AIR FLOW
100 l/s
212 CFM

POWER SUPPLY
415 VAC
240 VAC



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU460081	FILTER CARTRIDGE ENDURANCE Previously AU460734	1
2 AU410520	BLOWER 178D X 102W X 19MM	1
3 AU304150	MOTOR 0.55KW 415V 71 FL 2P (FVV100MR1)	1
4 AU460729	FILTER PRE-CLEANER 270MM - STANDARD	1
5 AS162611	FILTER SUPPORT CLAMP ASSEMBLY	1
6 AU872011	SHAFT EXTENSION 14MM F X 19MM M	1
7 R1626026	GASKET FVV100 INLET 200MM X 200MM 140MM DIAMETER	1
8 AU460768 AU460762	END CAP RUBBER BAFFLE	1 1
9 AU460765	CLAMP ASSEMBLY	1

SPECIFICATIONS

	METRIC	IMPERIAL
Fan Speeds	1	1
Air Flow	100 l/s	212 CFM
Power Supply	415 VAC 240 VAC	415 VAC 240 VAC
Current Draw	1.3 A	1.3 A
Weight (nominal)	40.0 Kg	88.2lbs
Dimension (L X W X H)	815 mm X 333 mm X 495 mm	32.1 in X 13.1 in X 19.5 in

MAINTENANCE

MONTHLY / 300 HOURS

AU460081	FILTER CARTRIDGE ENDURANCE (FOR UPGRADED UNIT)
----------	---

3 YEARS / 10,800 HOURS

AU460729	FILTER PRE-CLEANER 270MM - STANDARD
AU410520	BLOWER 178D X 102W X 19MM
AU304150	MOTOR 0.55KW 415V 71 FL 2P

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.

H13 HEPA FILTRATION OPTION

PART NO.	DESCRIPTION
PART NO.	H0174977
HEPA GRADE	H13
TEST STANDARD	EN 1822 or equivalent
FILTRATION EFFICIENCY	*99.95% for particles diameter 0.3 µm
FILTER DIMENSION	152mm OD x 305 mm

* On qualified cabins

COMPANION ITEMS

PART NO.	DESCRIPTION
AU460963	PRE CLEANER TS 3" INLET SMALL
H0174977	HEPA FILTER CARTRIDGE
AU682070 KIT500001	AIR FLOW AND MONITORING SWITCH AIR FLOW SWITCH DUCT SUITS
H0552762 H0552763 H0552775 H0548482	INTERNAL SENSOR, INCLUDING SOFTWARE EXTERNAL SENSOR, INCLUDING SOFTWARE DISPLAY WITH SOFTWARE, RS485-CAN WIRING HARNESS,AIR QUALITY, MAIN CAB



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OVERHEAD CRANE



RAIL SPECIAL VEHICLE



TRUCK



UNDERGROUND EQUIPMENT



WHEEL LOADER



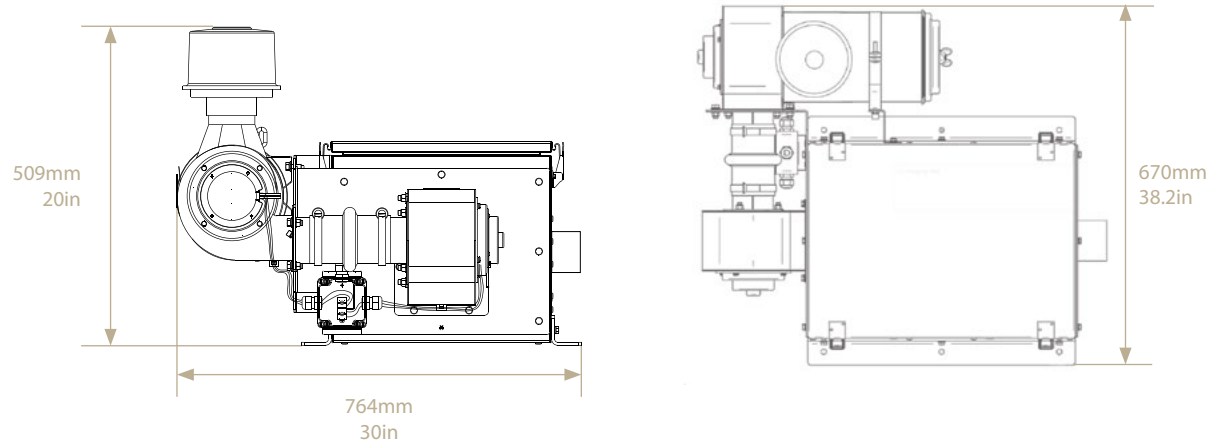
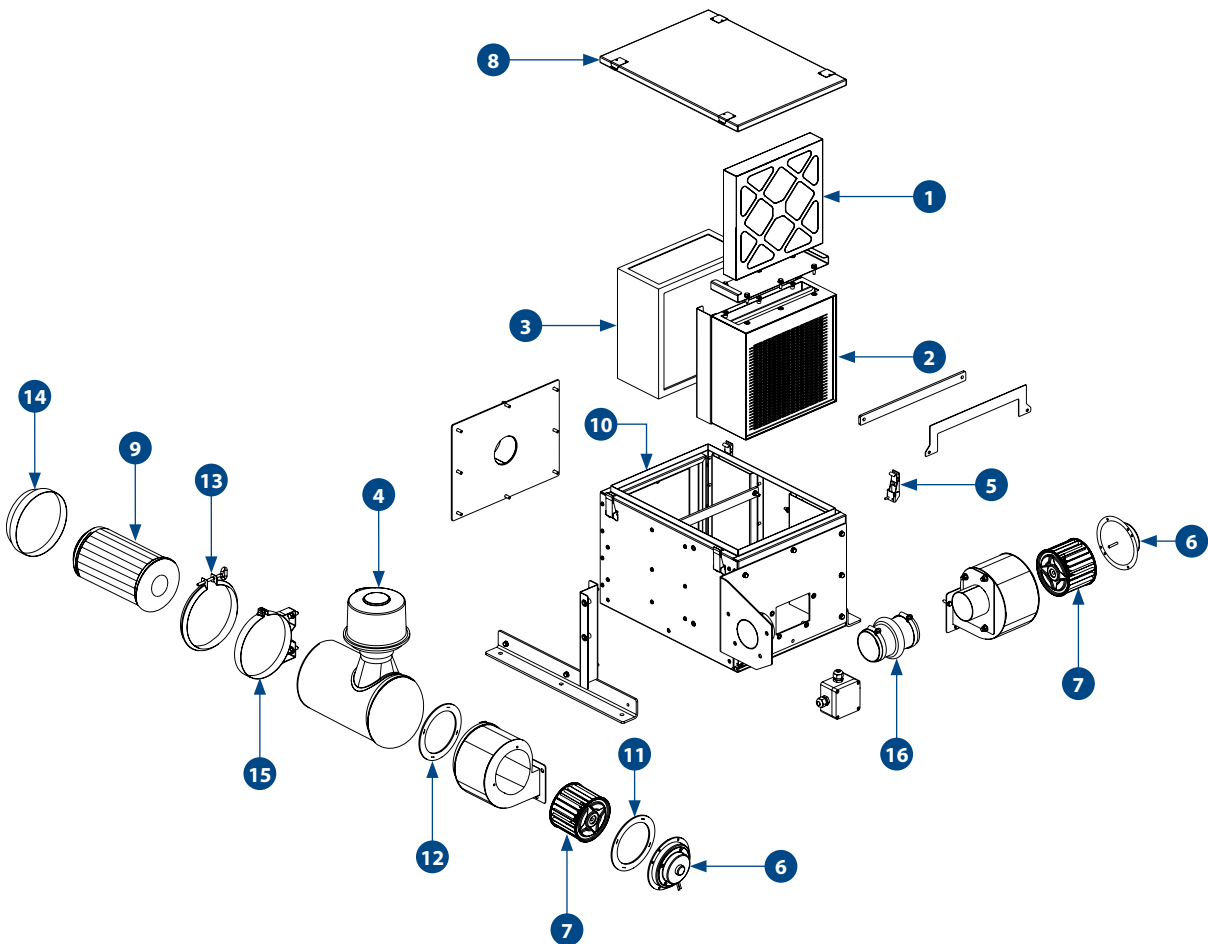
PVV50B2

PRESSURISER

PVV50B2
Fresh Air Multi Stage Filtration (HEPA) & Pressuriser

 **AIR FLOW**
30 l/s
64 CFM

 **POWER SUPPLY**
24 VAC



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1	AU460628 FILTER CARTRIDGE PLEAT 305MM X 305MM X 50MM	1
2	AS3505127 MEDIA MODULE ASSEMBLY	1
3	AU460863 FILTER 305MM X 305MM X 149MM METAL CASE (HEPA FILTER)	1
4	AU460963 PRE CLEANER TS 3" INLET SMALL	1
5	UC310 CATCH TOGGLE OVER CENTRE SS	4
6	UE325 MOTOR 70W 24VDC PANCAKE	2
7	AU410337 BLOWER 120D x 89W x 5/8 COUNTER CLOCKWISE SINGLE INLET	2
8	AS5242124 LID ASSEMBLY	1
9	AU460083 FILTER CARTRIDGE ENDURANCE FOR EB9P4X	1
10	AU862211 SEAL RUBBER	2
11	S3750100 SEAL GASKET MOTOR	1
12	S3750101 SEAL GASKET CANISTER	1
13	H0056158 CLAMP ASSEMBLY 168MM INTERNAL DIAMETER	1
14	H0056157 COVER ASSEMBLY	1
15	AU870001 MOUNTING BAND AIR CLEANER 6.5" DIAMETER	1
16	AU746237 HUMP STRAIGHT RUBBER 3	1

MEDIA OPTIONS

PART NO.	DESCRIPTION	APPLICATION
AU480004	MEDIA ACT ALUMINA	Targets oxidisable acidic gases responsible for corrosion
AU480010	MEDIA ACT CARBON	Targets VOC's and other inorganic gases
AU480011	MEDIA IMPREG CARBON	Target alkaline, gases e.g. ammonia, amines etc.

Consult SIGMA for correct media depending on gases to remove

H14 HEPA FILTRATION

PART NO.	DESCRIPTION
PART NO.	AU460863
HEPA GRADE	H14
TEST STANDARD	EN 1822 or equivalent
FILTRATION EFFICIENCY	*99.99% for particles diameter 0.3 µm
FILTER DIMENSION	305mm x 305mm x 149mm

*On qualified cabins

SPECIFICATIONS

	METRIC	IMPERIAL
Fan Speeds	1	1
Air Flow	30 l/s	64 CFM
Power Supply	24V	24V
Current Draw	6A	6A
Weight (nominal)	53.0 Kg	116.8 lbs
Dimension (L X W X H)	764mm X 670mm X 509mm	30.0in X 38.2in X 20.0in

MAINTENANCE

MONTHLY / 300 HOURS

AU460083	FILTER CARTRIDGE ENDURANCE FOR EB9P4X
----------	---------------------------------------

3 MONTHS / 900 HOURS

AU460628	FILTER CARTRIDGE PLEAT 305MM X 305MM X 50MM
----------	---

ANNUAL / 3,600 HOURS

AU460863	FILTER 305MM X 305MM X 149MM METAL CASE
UE325	MOTOR 70W 24VDC PANCAKE
AU410337	BLOWER 120D x 89W x 5/8 COUNTER CLOCKWISE SINGLE INLET

3 YEARS / 10,800 HOURS

AU460963	PRE CLEANER TS 3" INLET SMALL
----------	-------------------------------

COMPANION ITEMS

PART NO.	DESCRIPTION
AU682070 KIT500001	AIR FLOW AND MONITORING SWITCH AIR FLOW SWITCH DUCT SUITS
H0552762 H0552763 H0552775 H0548482	INTERNAL SENSOR, INCLUDING SOFTWARE EXTERNAL SENSOR, INCLUDING SOFTWARE DISPLAY WITH SOFTWARE, RS485-CAN WIRING HARNESS,AIR QUALITY, MAIN CAB



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UNDERGROUND EQUIPMENT



WHEEL LOADER



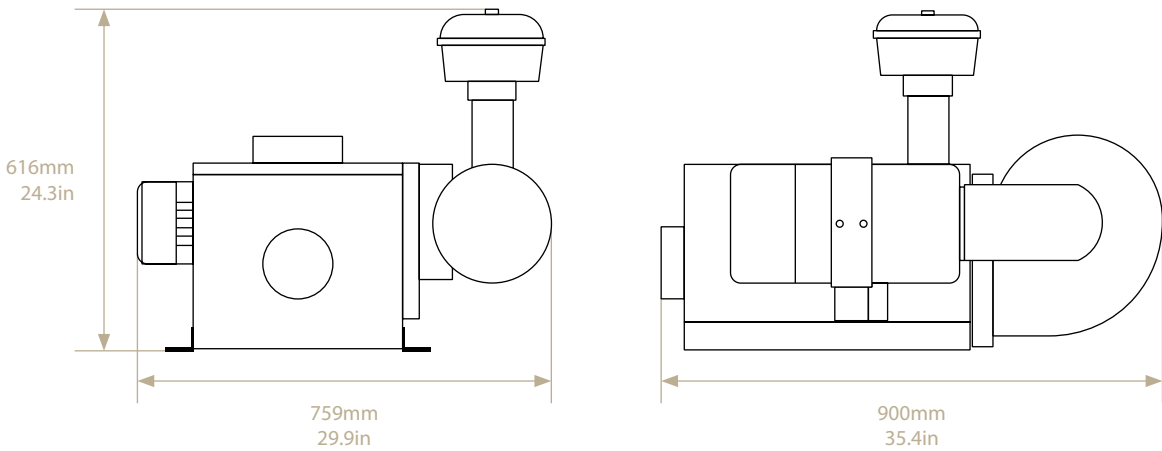
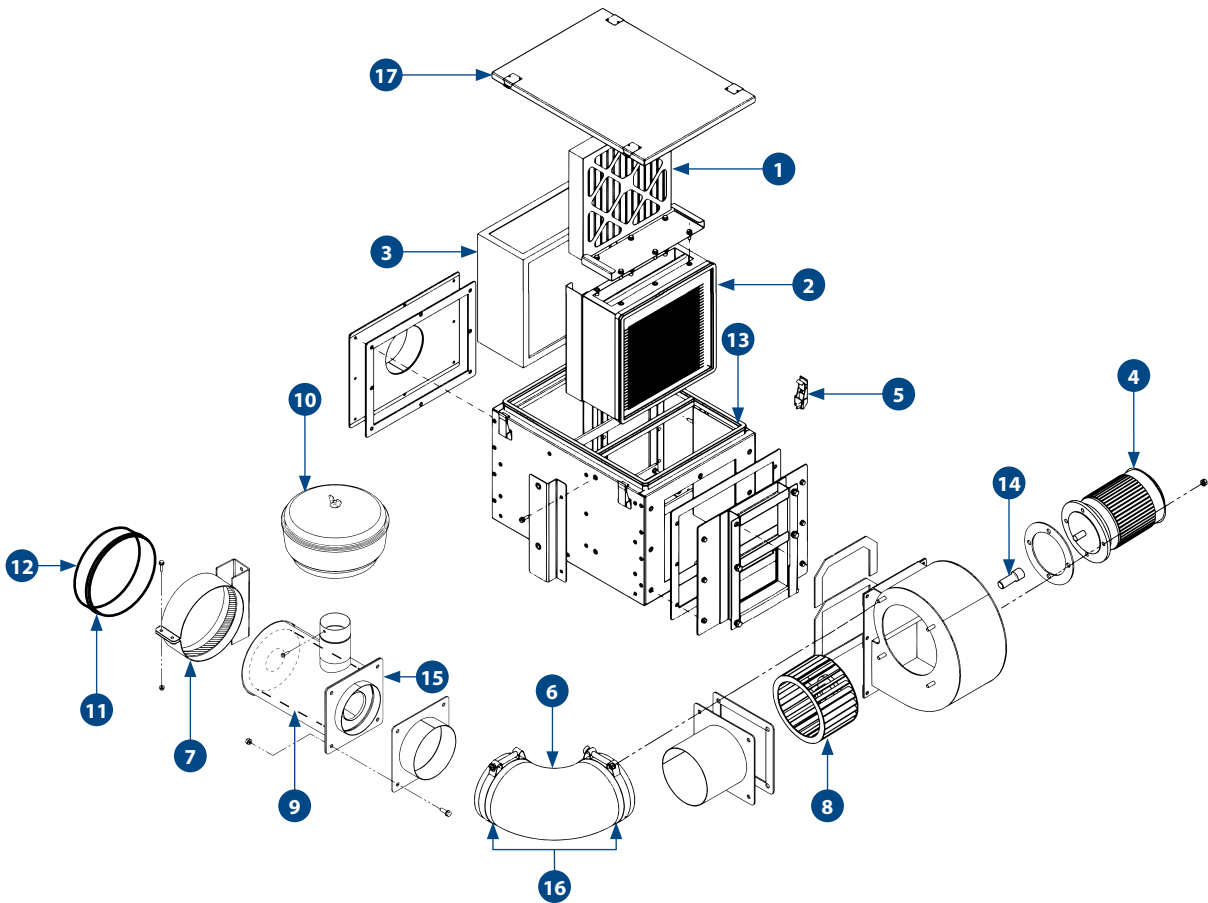
PVV50M2

PRESSURISER

PVV50M2
Fresh Air Multi Stage Filtration (HEPA) & Pressuriser

AIR FLOW
50 l/s
106 CFM

POWER SUPPLY
415 VAC



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1	AU460628 FILTER CARTRIDGE PLEAT 305MM X 305MM X 50MM	1
2	AS3505127 MEDIA MODULE ASSEMBLY	1
3	AU460863 FILTER 305MM X 305MM X 149MM METAL CASE (HEPA FILTER)	1
4	AU304150 MOTOR 0.55KW 415V 71 FL 2P	1
5	UC310 LATCH TOGGLE OVER CENTRE SS	4
6	UC265 ELBOW RUBBER 90DEG 6"	1
7	AS162611 FILTER SUPPORT CLAMP ASSEMBLY	1
8	AU410520 BLOWER 178D X 102W X 19MM CCW SINGLE INLET	1
9	AU460081 FILTER CARTRIDGE ENDURANCE FVV100 (OPT)	1
10	AU460729 FILTER PRE-CLEANER 270MM	1
11	AU460765 CLAMP ASSEMBLY	1
12	AU460768 END CAP	1
	AU460762 RUBBER BAFFLE	1
13	AU862211 SEAL RUBBER	2
14	AU872011 SHAFT EXTENSION 14MM F X 19MM M	1
15	R1626026 GASKET FVV100 INLET 200MM X 200MM 140MM DIAMETER	1
16	UC266 CLAMP SUIT UC265	2
17	AS5242124 LID ASSEMBLY	1

MEDIA OPTIONS

PART NO.	DESCRIPTION	APPLICATION
AU480004	MEDIA ACT ALUMINA	Targets oxidisable acidic gases responsible for corrosion
AU480010	MEDIA ACT CARBON	Targets VOC's and other inorganic gases
AU480011	MEDIA IMPREG CARBON	Target alkaline, gases e.g. ammonia, amines etc.

Consult SIGMA for correct media depending on gases to remove

H14 HEPA FILTRATION

PART NO.	DESCRIPTION
PART NO.	AU460863
HEPA GRADE	H14
TEST STANDARD	EN 1822 or equivalent
FILTRATION EFFICIENCY	*99.99% for particles diameter 0.3 µm
FILTER DIMENSION	305mm x 305mm x 149mm

*On qualified cabins

SPECIFICATIONS

	METRIC	IMPERIAL
Fan Speeds	1	1
Air Flow	50 l/s	106 CFM
Power Supply	415 VAC	415 VAC
Current Draw	1.3 A	1.3 A
Weight (nominal)	88.0 Kg	194.0 lbs
Dimension (L X W X H)	900 mm X 759 mm X 616 mm	35.4 in X 29.9 in X 24.3 in

MAINTENANCE

MONTHLY / 300 HOURS

AU460081	FILTER CARTRIDGE ENDURANCE
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3 MONTHS / 900 HOURS

AU460628	FILTER CARTRIDGE PLEAT 305MM X 305MM X 50MM
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ANNUAL / 3,600 HOURS

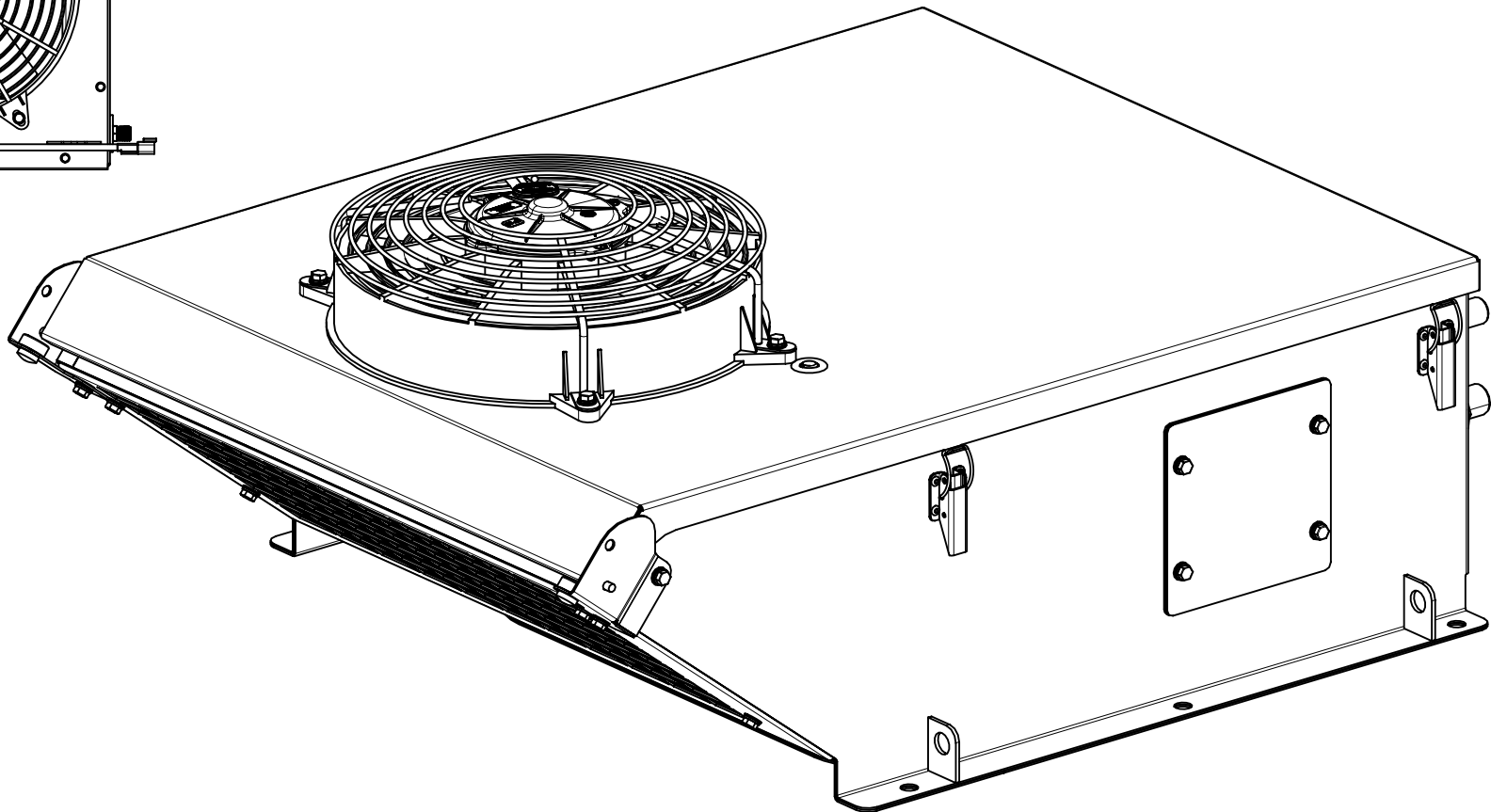
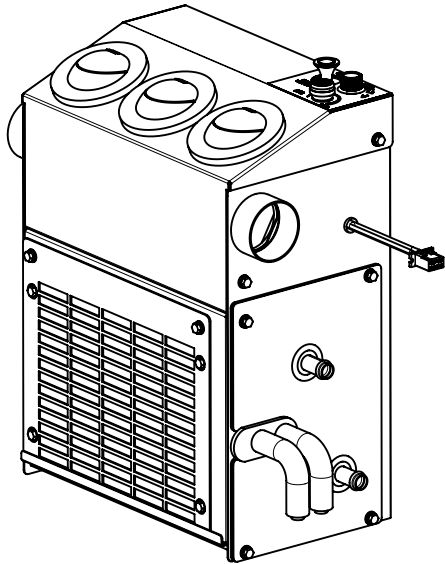
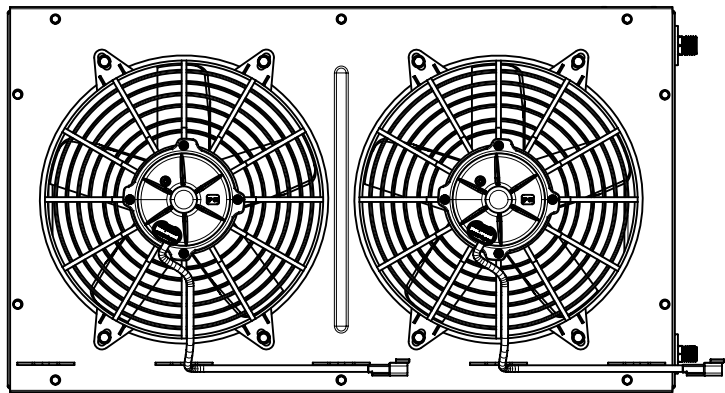
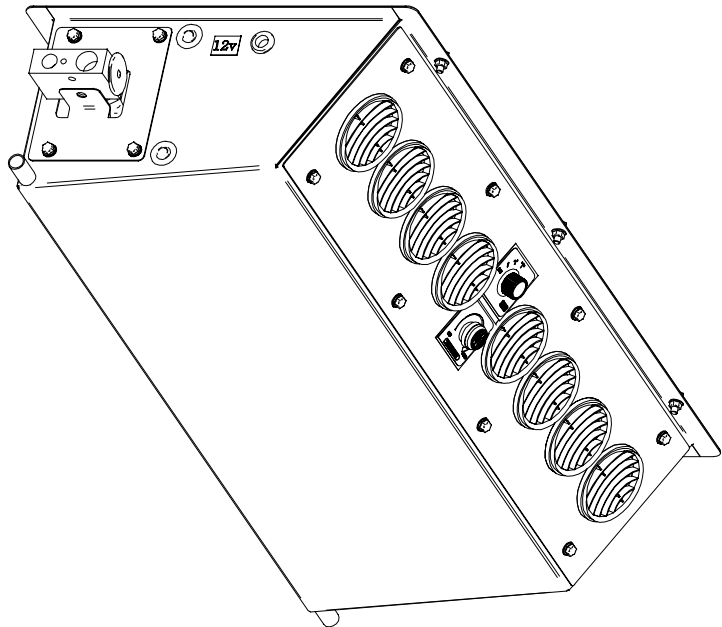
AU460863	FILTER 305MM X 305MM X 149MM METAL CASE
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3 YEARS / 10,800 HOURS

AU460729	FILTER PRE-CLEANER 270MM
AU410520	BLOWER 178D X 102W X 19MM CCW SINGLE INLET
AU304150	MOTOR 0.55KW 415V 71 FL 2P (FVV100MR1)

COMPANION ITEMS

PART NO.	DESCRIPTION
AU682070 KIT500001	AIR FLOW AND MONITORING SWITCH AIR FLOW SWITCH DUCT SUITS
H0552762 H0552763 H0552775 H0548482	INTERNAL SENSOR, INCLUDING SOFTWARE EXTERNAL SENSOR, INCLUDING SOFTWARE DISPLAY WITH SOFTWARE, RS485-CAN WIRING HARNESS,AIR QUALITY, MAIN CAB



E SERIES

SIGMA E SERIES air conditioner range has been designed and developed for robust duty and have been refined to suit vibration, dust and high ambient temperature applications.

These systems are engineered to suit small cabin in both wheeled and tracked vehicles, with all components selected to provide reliable service and designed for ease of serviceability

MODEL	PAGE
EB9EH4X	20
EC12C	22 - 23
EC12C2	22
EC12C4	22
EC12H4	24
EC12I4	26
EC22C4	28 - 29
EC22C4	28
EC22C4SS	28
EC22H4	30
ECW6BX1 (H0204590)	32
EFF4BX1	34
EFF5BX3	36
EFR4BX1	38
EPR4	40 - 41
EPR4AX1	40
EPR4BX1	40

EB9EH4X

ROOFTOP EVAPORATOR

EB9EH4X

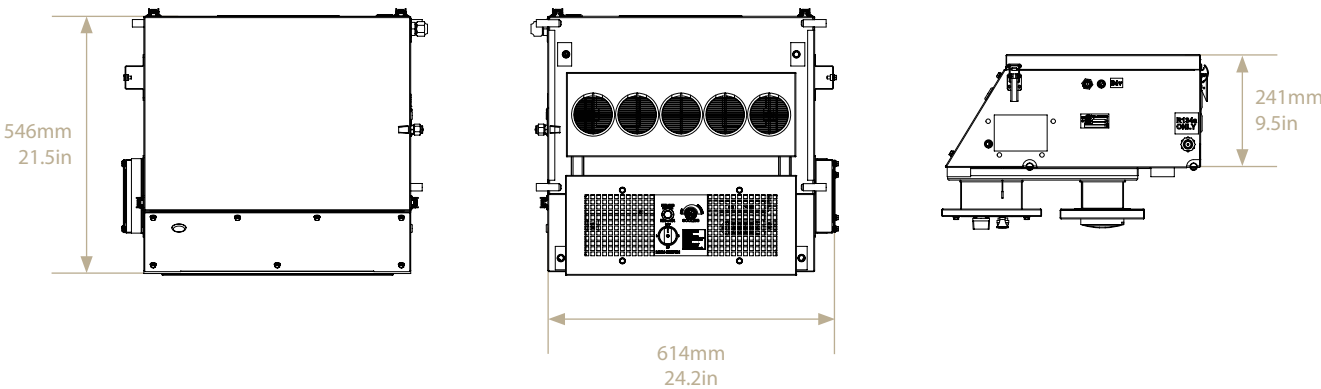
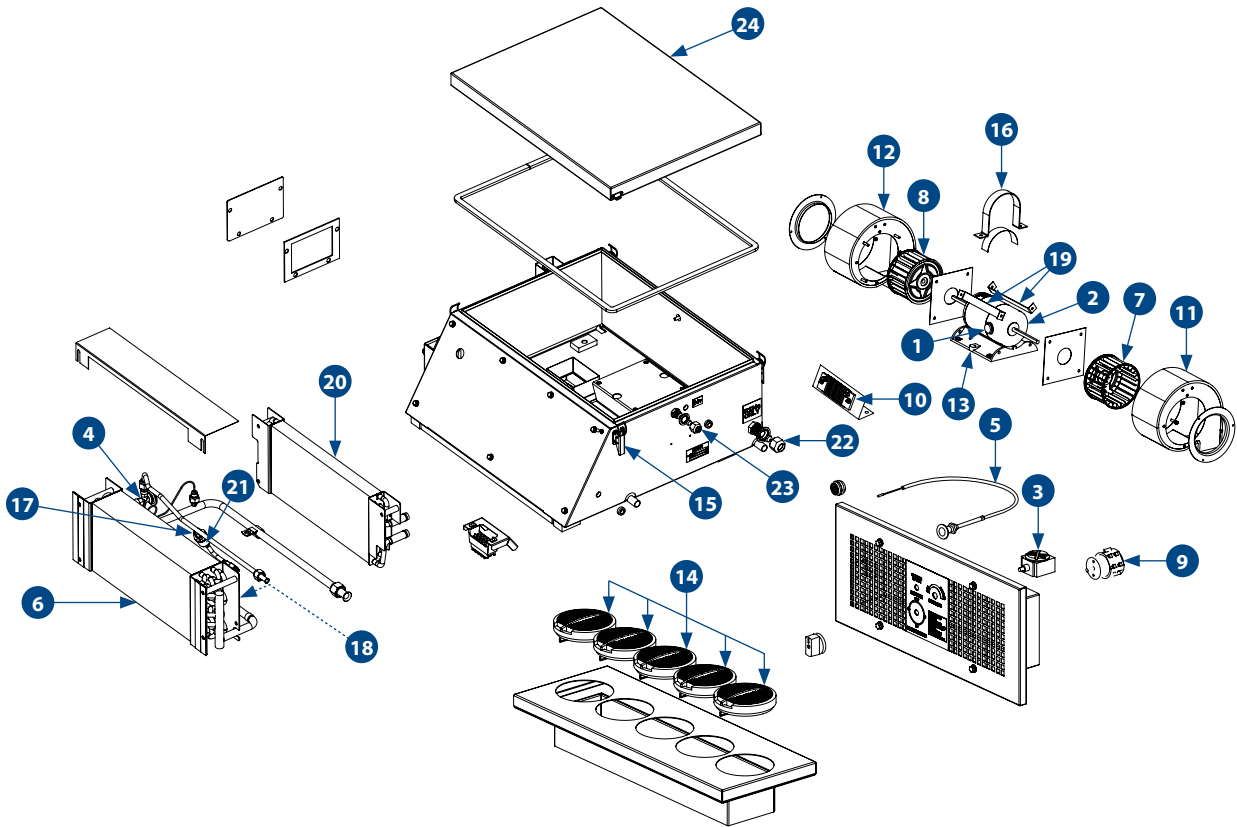
Rooftop Evaporator 5kW 24V with Heating (4.6kW)

**COOLING**
5.0 kW
17,060 BTU

**HEATING**
4.6 kW
15,695 BTU

**POWER SUPPLY**
24VDC

**AIR FLOW**
130 l/s
275 CFM



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 H0393309	MOTOR BRUSH 24V (EB9EH4) Previously AU320621 for UE023	2
2 H0384822	MOTOR 24VDC D/S (EB9EH4) Previously UE023	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 UR145	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 UE183	RESISTOR 3 OHM 50W 24V ONLY	1
11 UF040	HOUSING SUPPLY AIR FAN CCW	1
12 UF041	HOUSING SUPPLY AIR FAN CW	1
13 UC027	EVAPORATOR MOTOR MOUNT	1
14 AU821704	DIFFUSER ROUND 92MM PVC	5
15 UC048	LATCH TOGGLE OVER-CENTRE	4
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
20 UR037	HEATER COIL 354MM X 178MM X 32MM 2RW EB9	1
21 UE064	DPC 1/4" MF HIGH PRESSURE 2206kPa LOW PRESSURE 196kPa	1
22 UR011	BULKHEAD FITTING 5/8" MF #10	1
23 UR009	BULKHEAD FITTING 3/8" MF #6	1
24 H0173253	INSULATED TOP COVER ASSEMBLY	1
UR032	TX VALVE STRAINER FOR AU521923	1
AU410902	INLET RING Previously UF034	1
UE700	CIRCUIT BREAKER 40A STUD TYP MANUAL	1
AU744827	VALVE WATER 16MM	1
UF089	FAN DECK 24V EB9	1
BC036	SEAL CAB TO CASE 360MM X 422MM	1
UC047	KEEPER PLATE ZP	4
UC022	KNOB SNOWFLAKE 6.35MM	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	5.0 kW	17,060 BTU
Heating Capacity	4.6 kW	15,695 BTU
Air Flow	130 l/s	275 CFM
Fresh Air	30 l/s	64 CFM
Power Supply	24 VDC	24VDC
Current Draw	7 A	7 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"	546 mm X 614 mm X 241 mm	21.5 in X 24.5 in X 9.5 in

MAINTENANCE

6 MONTHS / 2,500 HOURS

H0393309	BRUSH MOTOR 24VDC EACH (EB9EH4)
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ANNUAL / 5,000 HOURS

H0384822	MOTOR 24VDC D/S (EB9EH4)
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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

COMPANION ITEMS

PART NO.	DESCRIPTION
H0404763	Hydraulic Driven Compressor 150 (Vertical)
H0428289	Electric Compressor 24V
AU110388	Radiator Condenser
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
KNHV80001	Installation Kits
KNHV80011	Installation Kits



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OVERHEAD CRANE



RAIL SPECIAL VEHICLE



TRUCK



UNDERGROUND EQUIPMENT



WHEEL LOADER



EC12C

ROOFTOP CONDENSER

EC12C2
Remote Condenser 4kW 12V

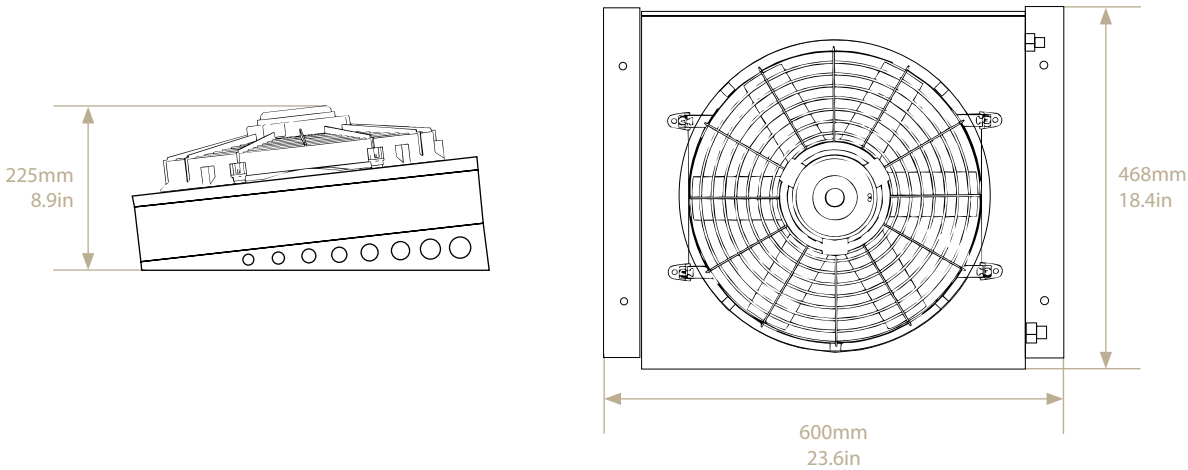
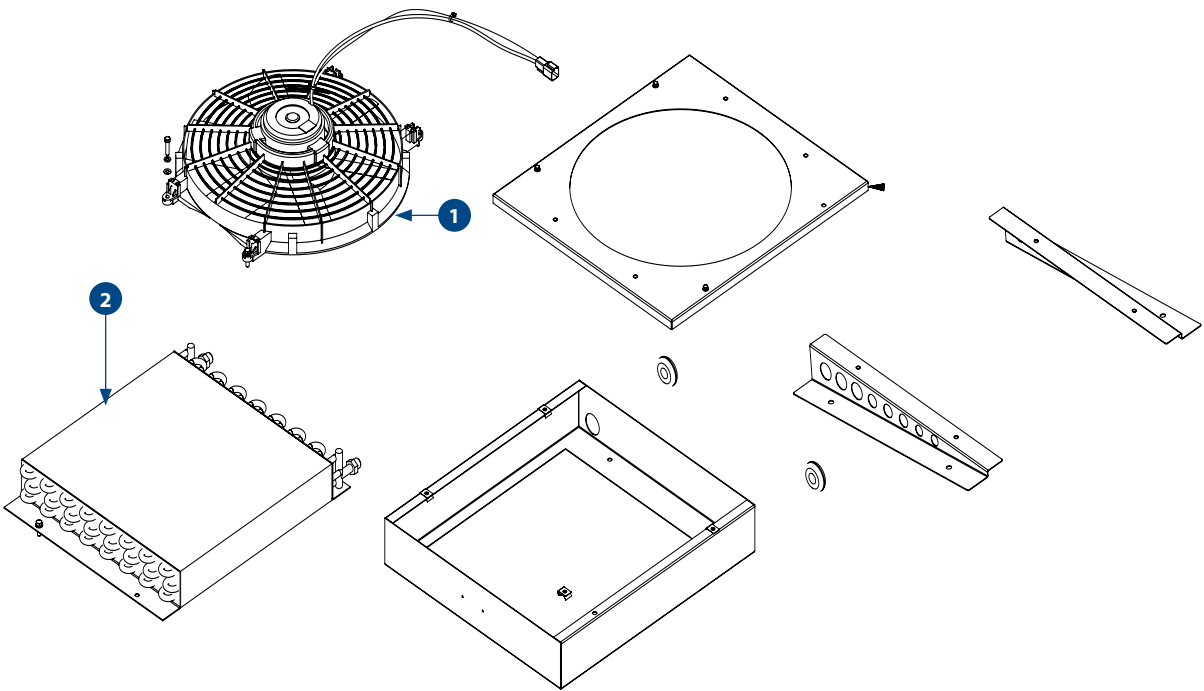
EC12C4
Remote Condenser 4kW 24V



COOLING
4.0 kW
13,648 BTU



POWER SUPPLY
12VDC
24VDC



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

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	4.0 kW	13,648 BTU
Fan Speeds	1	1
Power Supply	24 VDC / 12 VDC	24 VDC / 12 VDC
Current Draw	10 A / 20 A	10 A / 20 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
L X W X H Dimension	600 mm X 468 mm X 225 mm	23.6 in X 18.4 in X 8.9 in

MAINTENANCE

ANNUAL / 5,000 HOURS

AU420064	FAN AXIAL ASSEMBLY 400MM 12VDC
AU420063	FAN AXIAL ASSEMBLY 400MM 24VDC

COMPANION ITEMS

PART NO.	DESCRIPTION
EC1214	Internal Wall Evaporator
EC12H4	Hood Liner Evaporator
EFF4BX1	Evaporator
FVV40	Pressuriser
H0404763	Hydraulic Driven Compressor 150 (Vertical)
H0428289	Electric Compressor 24V
AU270311	Compressor UP150 2A 24V VMO 132 OD PAG
AU270312	Compressor UP150 1B 24V VMO 135 OD PAG
AU531422	Receiver Drier



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UNDERGROUND EQUIPMENT



WHEEL LOADER



EC12H4

ROOFTOP EVAPORATOR

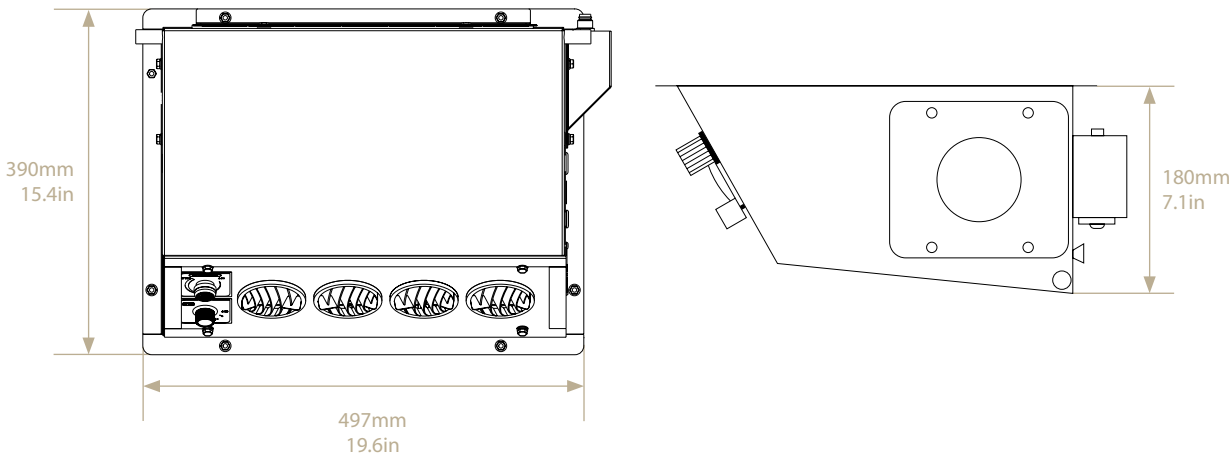
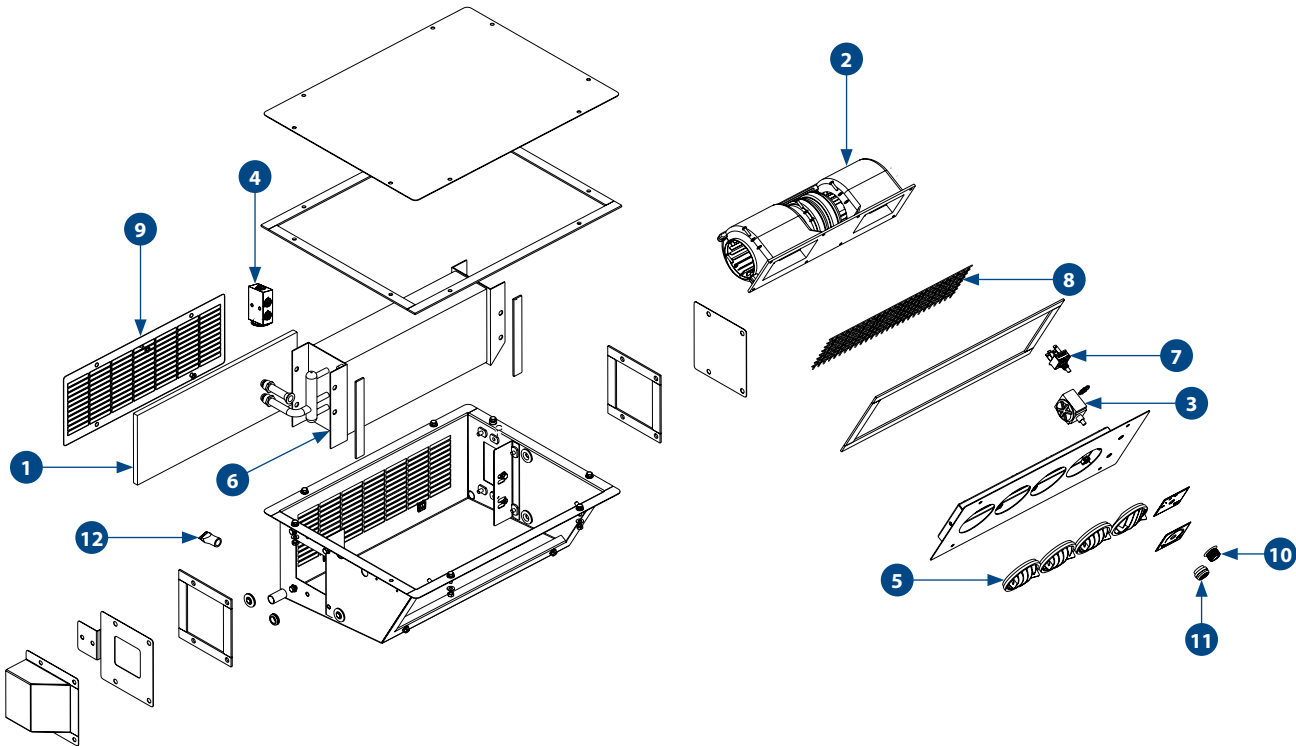
EC12H4
Ceiling Mount Evaporator 4kW 24V

**COOLING**
4.0 kW
13,648 BTU

**HEATING (OPTION)**
3.5 kW
11,942 BTU

**POWER SUPPLY**
24VDC

**AIR FLOW**
110 l/s
233 CFM



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 S2501182S	EVAPORATOR FILTER MEDIA 385MM X 145MM	1
2 AU400034	FAN DECK 24V 3SPD	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
6 AU120480	EVAPORATOR COIL 345MM X 152MM X 79MM	1
7 UE335	ROTARY SWITCH 3-SPEED C/W NUT	1
8 S2501207	GRILLE 344MM X 100MM	1
9 S2501026	FILTER COVER	1
10 UC451	KNOB 1/4 BLACK PLASTIC 21MM DIAMETER	1
11 UC022	KNOB SNOWFLAKE 6.35MM	1
12 UC504	DRAIN NOZZLE 13MM	2

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

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	4.0 kW	13,648 BTU
Heating Capacity (Optional)	3.5 kW	11,942 BTU
Air Flow	110 l/s	233 CFM
Fresh Air	30 l/s	64 CFM
Power Supply	24 VDC	24 VDC
Current Draw	5 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	497 mm X 390 mm X 180 mm	19.6 in X 15.4 in X 7.1 in

COMPANION ITEMS

PART NO.	DESCRIPTION
FVV40	Pressuriser
H0404763	Hydraulic Driven Compressor 150 (Vertical)
H0428289	Electric Compressor 24V
AU110312	Radiator Condenser
AU110316	Radiator Condenser
AU110388	Radiator Condenser
AU270311	Compressor UP150 2A 24V VMO 132 OD PAG
AU270312	Compressor UP150 1B 24V VMO 135 OD PAG
KIT25014	Heater Kit
AU270008	Engine Driven Compressor
AU270007	Engine Driven Compressor
EC12C2	Electric Condenser 12 V
EC12C4	Electric Condenser 24 V



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UNDERGROUND EQUIPMENT



WHEEL LOADER



EC12I4

INTERNAL EVAPORATOR

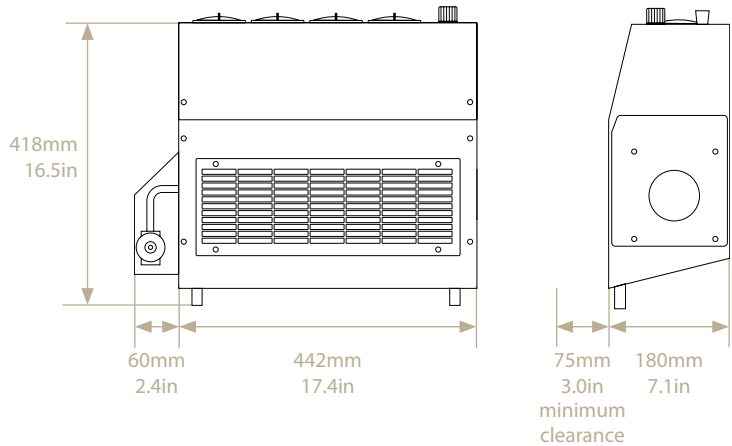
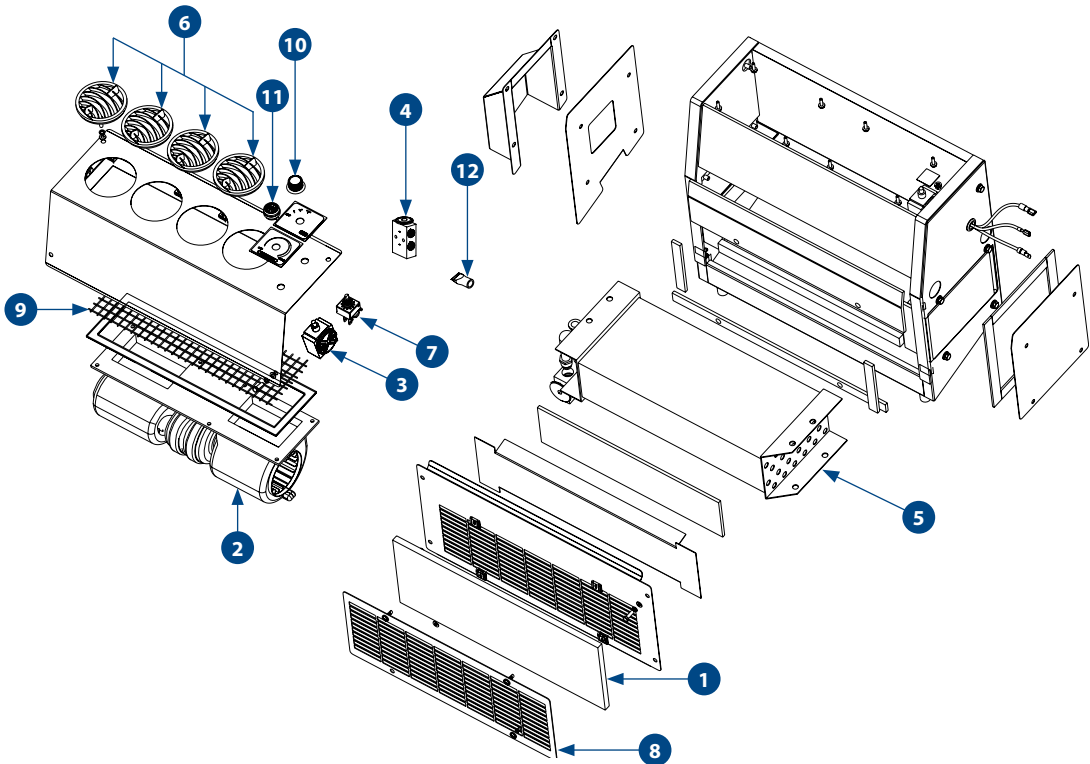
EC12I4
Internal Wall Mount Evaporator 4kW 24V

**COOLING**
4.0 kW
13,648 BTU

**HEATING (OPTION)**
3.5 kW
11,942 BTU

**POWER SUPPLY**
24VDC

**AIR FLOW**
110 l/s
233 CFM



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1	S2501182S EVAPORATOR FILTER MEDIA 385MM X 145MM	1
2	AU400034 FAN DECK 24V 3SPD (EC12I4)	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	UC451 KNOB 1/4 BLACK PLASTIC 21MM DIAMETER	1
11	UC022 KNOB SNOWFLAKE 6.35MM	1
12	UC504 DRAIN NOZZLE 13MM	4

MAINTENANCE

MONTHLY / 300 HOURS

S2501182S	EVAPORATOR FILTER MEDIA 385MM X 145MM
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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

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	4.0 kW	13,648 BTU
Heating Capacity (Optional)	3.5 kW	11,942 BTU
Air Flow	110 l/s	233 CFM
Fresh Air	30 l/s	64 CFM
Power Supply	24 VDC	24 VDC
Current Draw	5 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	550 mm X 180 mm X 418 mm	21.7 in X 7.1 in X 16.5 in

COMPANION ITEMS

PART NO.	DESCRIPTION
FVV40	Pressuriser
H0404763	Hydraulic Driven Compressor 150 (Vertical)
H0428289	Electric Compressor 24V
AU110312	Radiator Condenser
AU110316	Radiator Condenser
AU110388	Radiator Condenser
AU270311	Compressor UP150 2A 24V VMO 132 OD PAG
AU270312	Compressor UP150 1B 24V VMO 135 OD PAG
KIT25014	Heater Kit
AU270008	Engine Driven Compressor
AU270007	Engine Driven Compressor
EC12C2	Electric Condenser 12 V
EC12C4	Electric Condenser 24 V



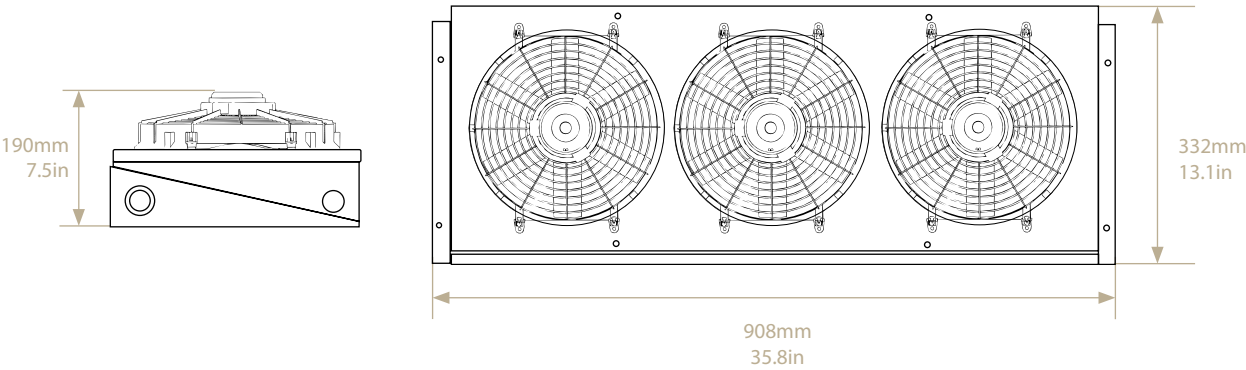
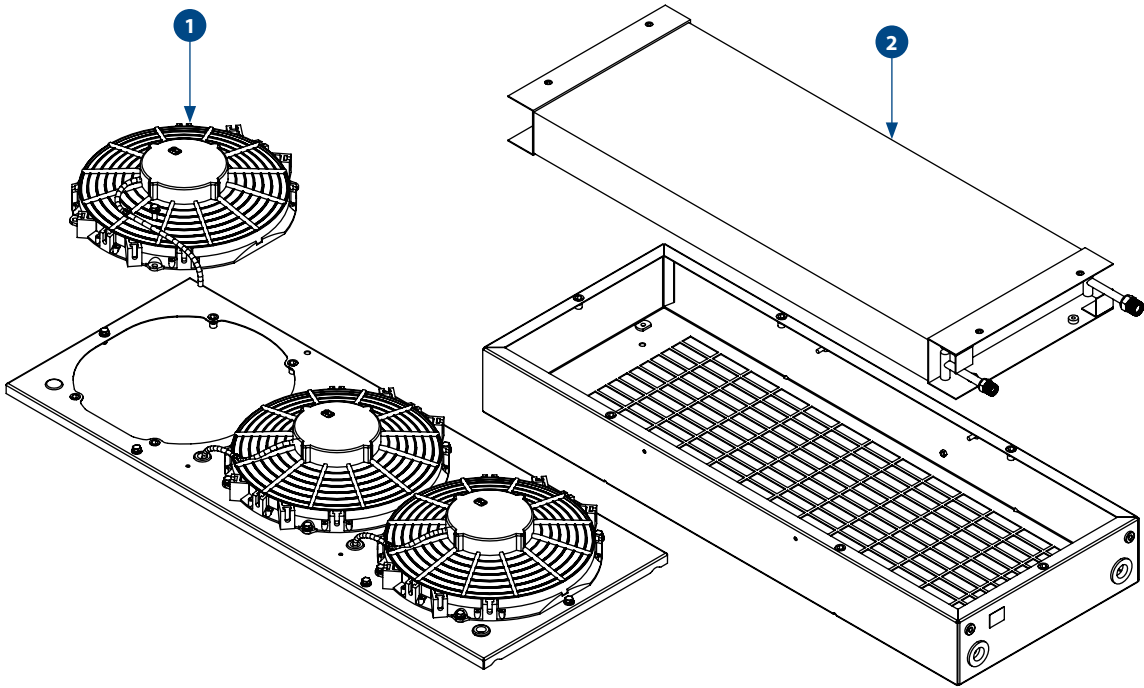
EC22C4

REMOTE CONDENSER

EC22C4
Remote Condenser
EC22C4SS
Remote Condenser (Stainless Steel)

**COOLING**
6.0 kW
20,472 BTU

**POWER SUPPLY**
24VDC



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 H0214932	FAN AXIAL ASSEMBLY 260MM 24VDC (EC22C4)	3
2 AU110388	CONDENSER COIL 800x282x70 (EC22C4)	1
AU110389	CONDENSER COIL 800x282x70 (EC22C4SS)	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	6.0 kW	20,472 BTU
Fan Speeds	1	1
Power Supply	24 VDC	24 VDC
Current Draw	13 A	13 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	908 mm X 332 mm X 190 mm	35.8 in X 13.1 in X 7.5 in

MAINTENANCE

ANNUAL / 3,600HOURS

H0214932	FAN AXIAL ASSEMBLY 260MM 24VDC
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COMPANION ITEMS

PART NO.	DESCRIPTION
EC22H4	Hoodliner Evaporator (24V)
FVV40	Pressuriser
H0404763	Hydraulic Driven Compressor 150 (Vertical)
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



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UNDERGROUND EQUIPMENT



WHEEL LOADER



EC22H4

CEILING EVAPORATOR

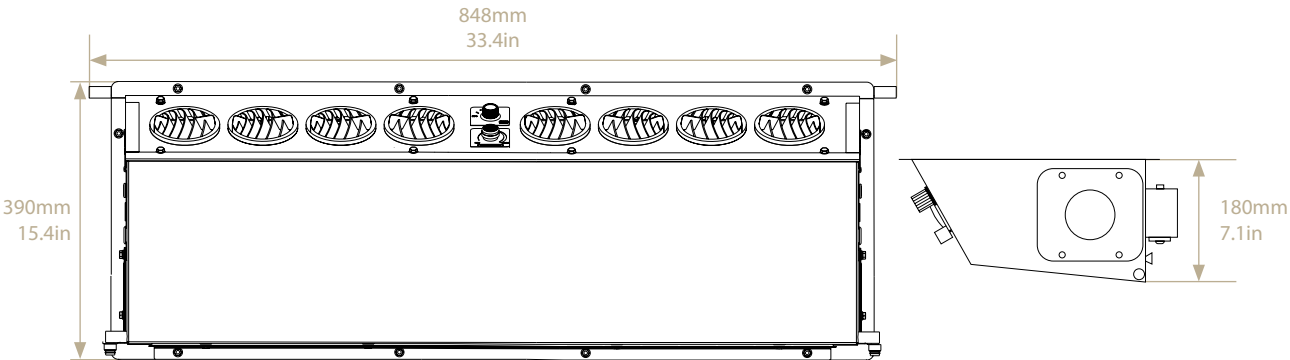
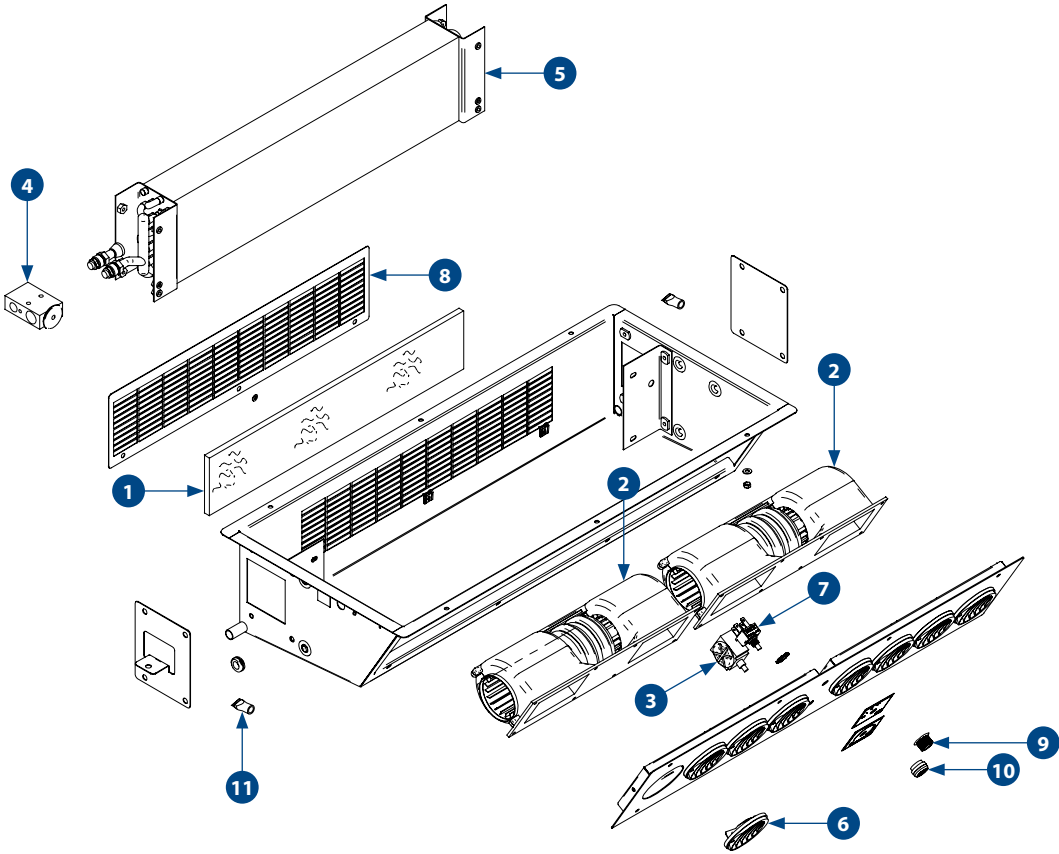
EC22H4 Ceiling Evaporator

**COOLING**
6.0 kW
20,472 BTU

**HEATING (OPTION)**
3.8 kW
12,966 BTU

**POWER SUPPLY**
24VDC

**AIR FLOW**
220 l/s
466 CFM



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 S2502084	FILTER MEDIA	1
2 AU400034	FAN DECK 24V 3SPEED (EC22H4)	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 S2502024	FILTER COVER	1
9 UC451	KNOB 1/4 BLACK PLASTIC 21MM DIAMETER	1
10 UC022	KNOB SNOWFLAKE 6.35MM	1
11 UC504	DRAIN NOZZLE 13MM	2

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	6.0 kW	20,472 BTU
Heating Capacity (with Optional Kit)	3.8 kW	12,966 BTU
Fan Speeds	3	3
Air Flow	220 l/s	466 CFM
Power Supply	24 VDC	24 VDC
Current Draw	12 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	848 mm X 390 mm X 180 mm	33.4 in X 15.4 in X 7.1 in

MAINTENANCE

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

COMPANION ITEMS

PART NO.	DESCRIPTION
EC22C4	Electric Condenser 24V
FVV40	Pressuriser
H0404763	Hydraulic Compressor
H0428289	Electric Compressor 24V
AU110388	CONDENSER COIL 800x282x70 4RW 0.13mm
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
KIT25021	EC22H Heater Kit
KNHV90019	Vertical Mount Drain Tray
AU270008	Engine Driven Compressor
AU270007	Engine Driven Compressor



ECW6BX1

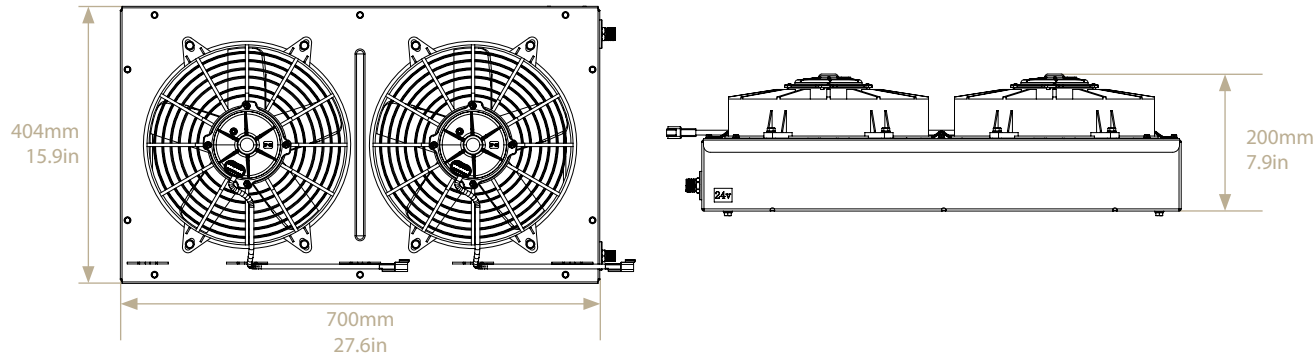
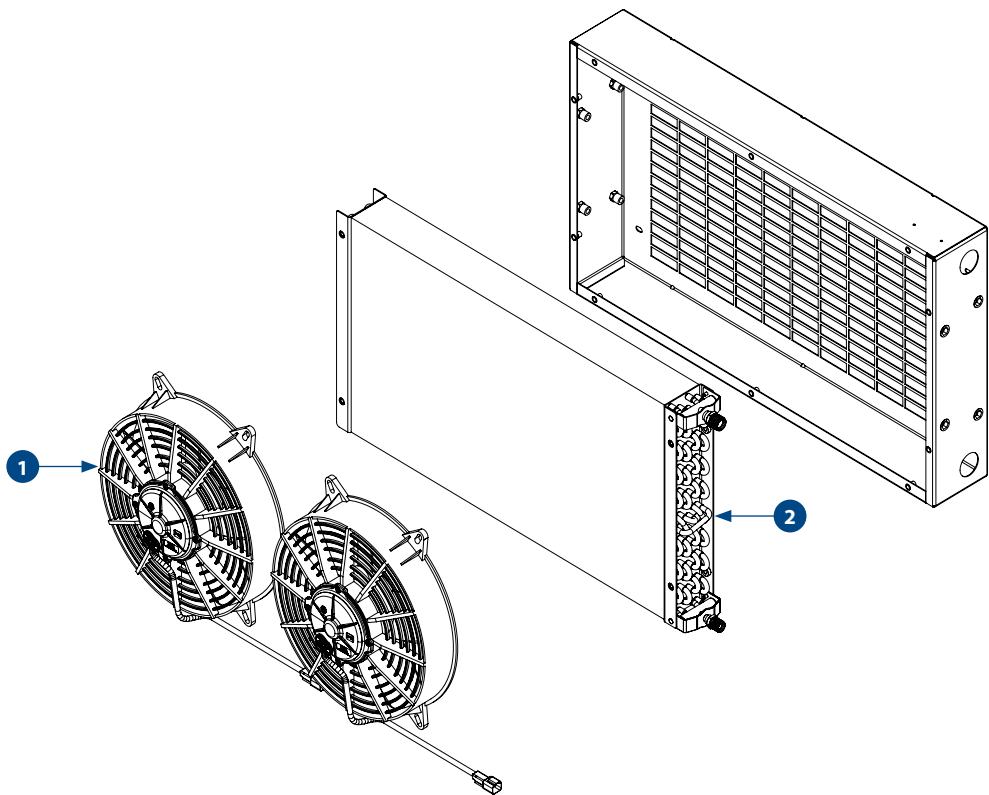
WALL MOUNTED CONDENSER

H0204590

Wall mounted Condenser

 **COOLING**
6.5 kW
22,180 BTU

 **POWER SUPPLY**
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
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
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COMPANION ITEMS

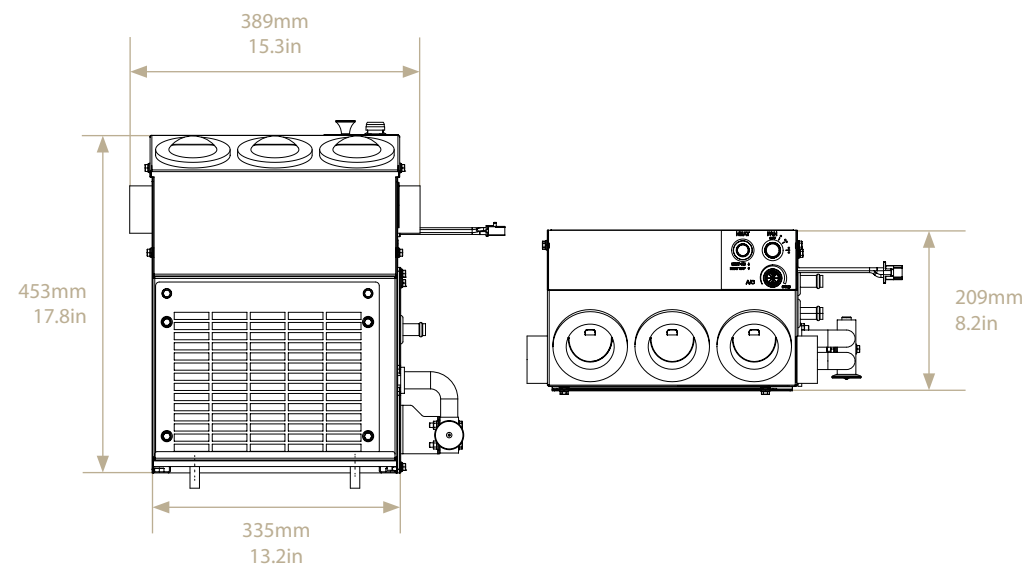
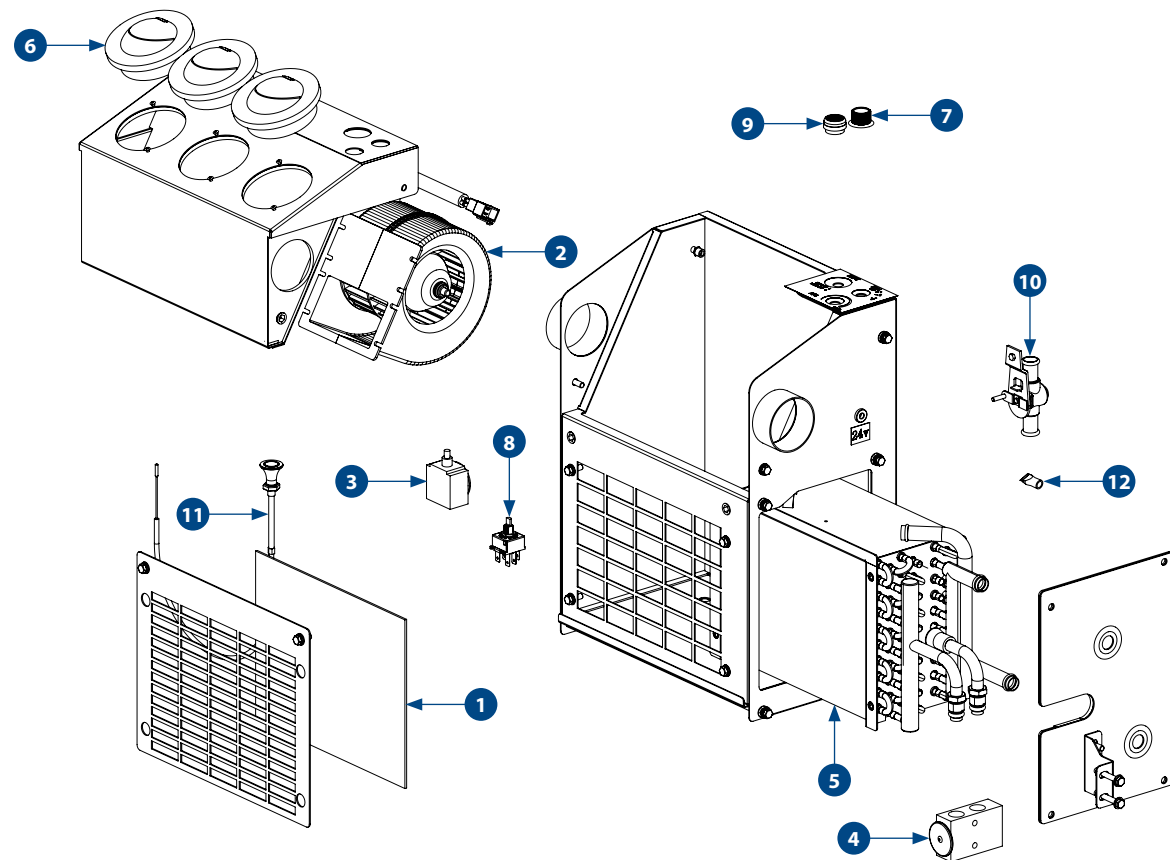
PART NO.	DESCRIPTION
EC22H4	Hoodliner Evap
EFF5BX3	Evap Floor Mounted
H0404765	Hydraulic Driven Compressor 170 (Vertical)
AU270306	Compressor UP170 2A 24V VMO 132 OD PAG
AU270307	Compressor UP170 1B 24V VMO 135 PAG
AU531422	Receiver Drier
AU531601	Receiver Drier

EFF4BX1

INTERNAL EVAPORATOR

EFF4BX1

Internal Evaporator with Heating



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 UC042	CABLE PUSH/PULL F/DRIVE 1500MM	1
12 UC504	DRAIN NOZZLE 13MM	2

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	4.0 kW	13,648 BTU
Heating Capacity	4.0 kW	13,648 BTU
Fan Speeds	3	3
Air Flow	100 l/s	212 CFM
Power Supply	24 VDC	24 VDC
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"	389 mm X 209 mm X 453 mm	15.3 in X 8.2 in X 17.8 in

MAINTENANCE

MONTHLY / 300 HOURS

S3938009 FILTER MEDIA

ANNUAL / 3,600 HOURS

AU4001001 FAN DECK 24V 3SPEED

3 YEARS / 10,800 HOURS

UE016 THERMOSTAT DEICE STUD

AU521946 TX VALVE

UE335 ROTARY SWITCH 3 SPEED

COMPANION ITEMS

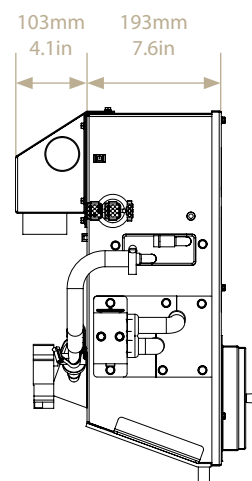
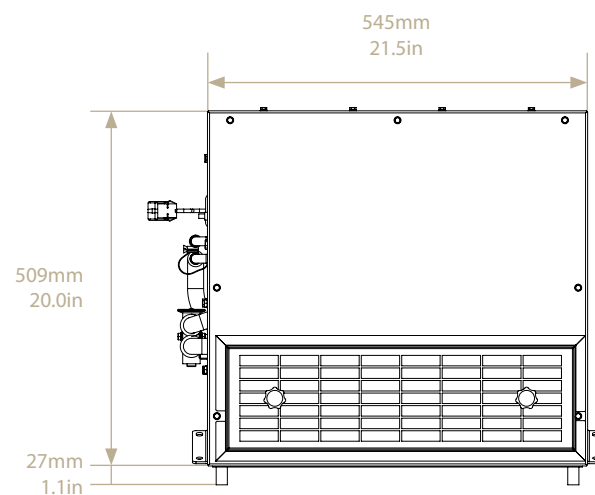
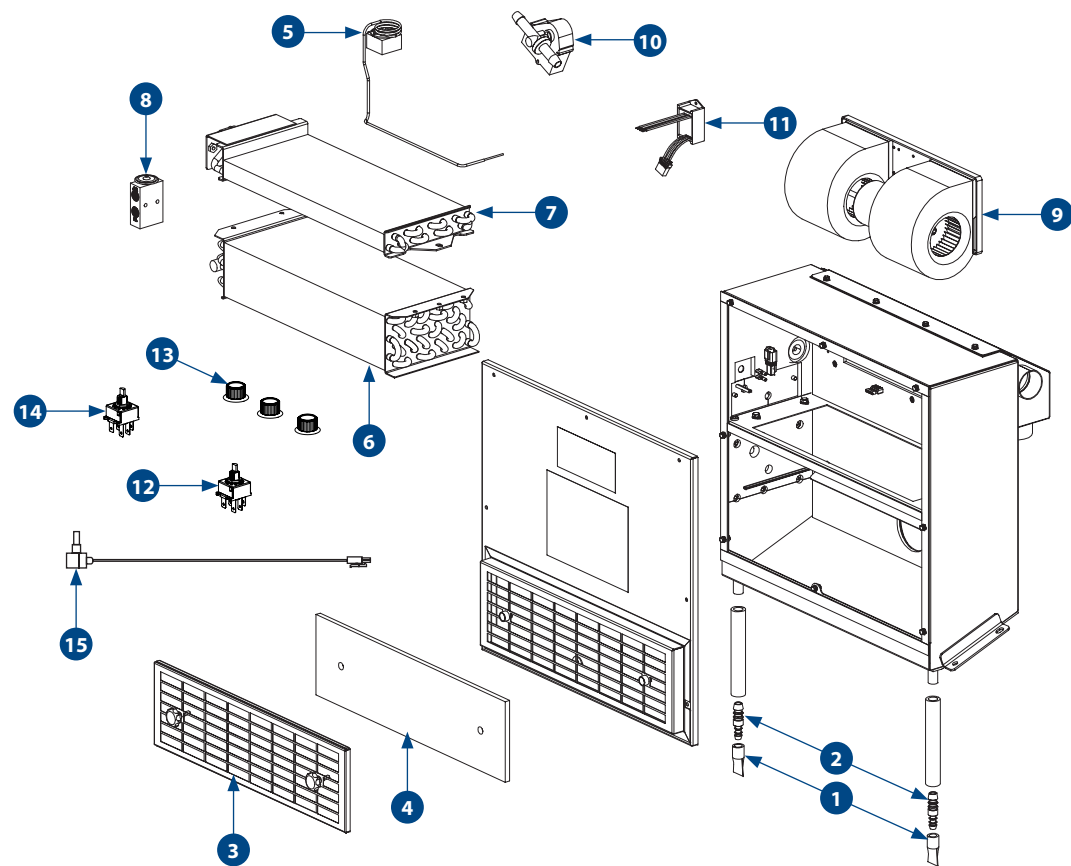
PART NO.	DESCRIPTION
EC12C4	Electric Condenser
FVV40	Pressuriser
H0404763	Hydraulic Driven Compressor 150 (Vertical)
H0428289	Electric Compressor 24 V
AU110388	Radiator Condenser
AU270311	Compressor UP150 2A 24V VMO 132 OD PAG
AU270312	Compressor UP150 1B 24V VMO 135 OD PAG
AU531422	Receiver Drier
AU110312	Radiator Condenser
AU270008	Engine Driven Compressor
AU270007	Engine Driven Compressor

EFF5BX3

FLOOR MOUNTED EVAPORATOR

EFF5BX3

Floor Mounted Evaporator with Heating

**COOLING**
5.0 kW
17,061 BTU**HEATING**
6.0 kW
20,473 BTU**POWER SUPPLY**
24 VDC**AIR FLOW**
100 l/s
212 CFM

SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 UC504	DRAIN NOZZLE 13MM	2
2 H0122713	HOSE JOINER 5/8 X 1/2 BARB PLASTIC	2
3 H0290673	RETURN AIR FILTER PANEL ASSEMBLY	1
4 H0093153	RETURN AIR FILTER	1
5 UE016	THERMOSTAT DEICE STUD	1
6 H0092745	EVAPORATOR COIL 416MM X 178MM X 95MM 6 ROW	1
7 H0092744	HEATER COIL 416MM X 178MM X 32MM 2 ROW	1
8 AU521946	TX VALVE BLOCK 2T 3/8" IN 1/2" OUT R134A	1
9 AU400051	FAN DECK 24V 3SPEED	1
10 AU5221004	2-PORT 5/8" ELECTRIC HEATER CONTROL VALVE	1
11 AU6811008	HEATER VALVE CONTROL MODULE	1
12 AU663118	ROTARY SWITCH 2 POSITION 45 DEGREE	1
13 UC451	KNOB 1/4 BLACK PLASTIC 21MM DIAMETER	3
14 UE335	ROTARY SWITCH 3 SPEED COMPLETE WITH NUT	1
15 H0147952	POTENTIOMETER ASSEMBLY	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	5.0 kW	17,061 BTU
Heating Capacity	6.0 kW	20,473 BTU
Fan Speeds	3	3
Air Flow	100 l/s	212 CFM
Power Supply	24 VDC	24 VDC
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	545 mm X 296 mm X 536 mm	21.5 in X 11.7 in X 21.1 in

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

COMPANION ITEMS

PART NO.	DESCRIPTION
EC22C4	Remote Condenser 6kW 24V
H0204590	ECW6BX1 - 6.5kW Wall mounted Condenser (24 VDC)
FVV40	Pressuriser
H0404763	Hydraulic Driven Compressor 150 (Vertical)
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



DOZER



DRAGLINE & SHOVEL



DRILL



EXCAVATOR



FORKLIFT & TELEHANDLERS



OVERHEAD CRANE



RAIL SPECIAL VEHICLE



TRUCK



UNDERGROUND EQUIPMENT



WHEEL LOADER



EFR4BX1

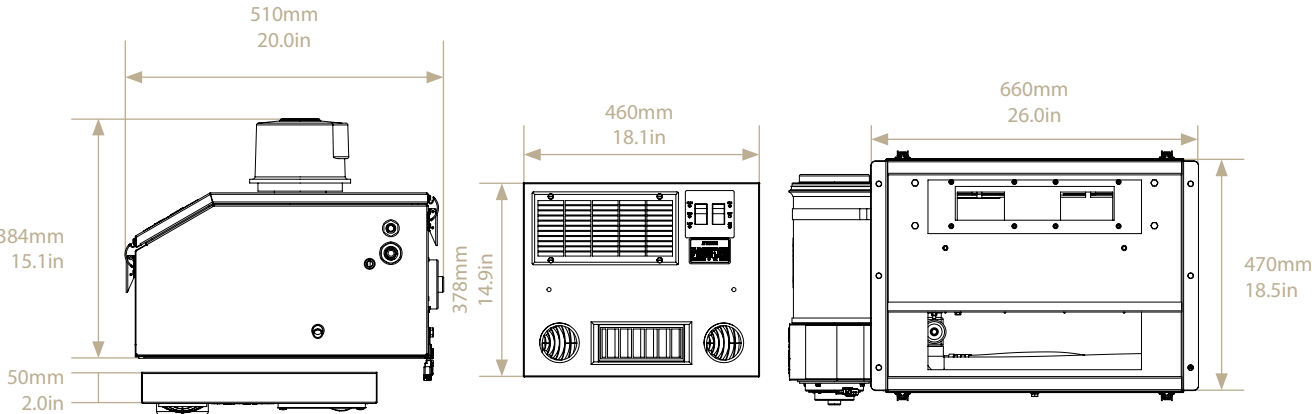
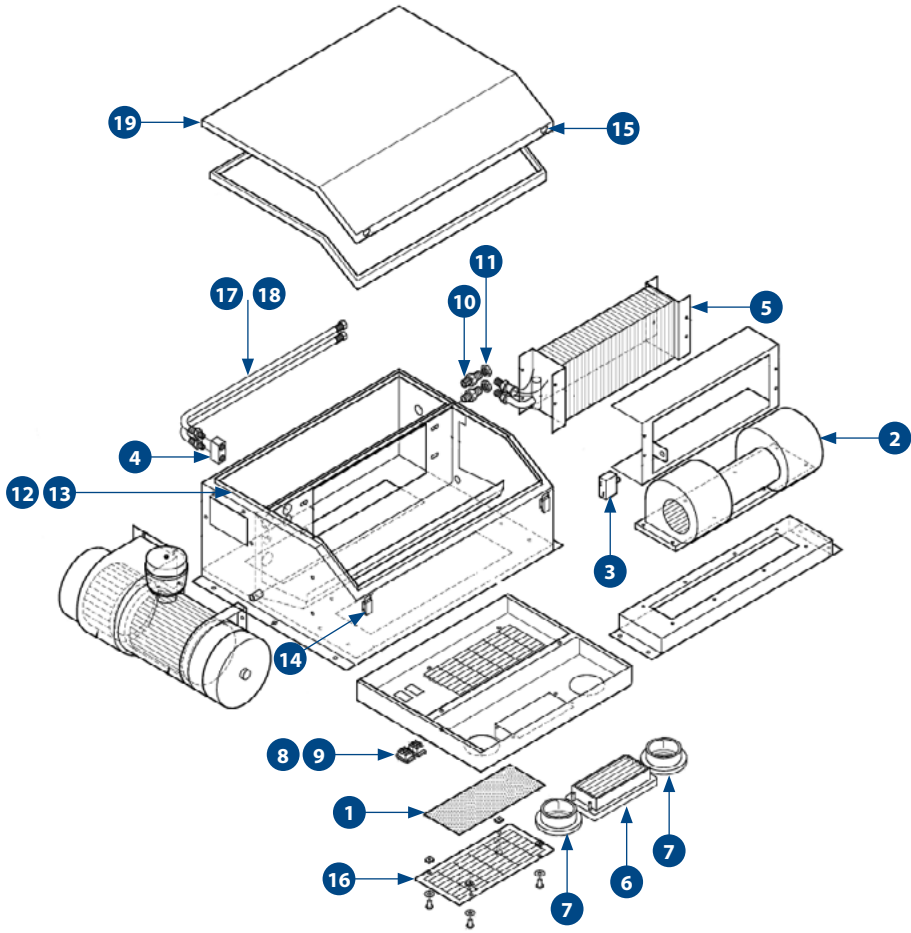
ROOFTOP EVAPORATOR

EFR4BX1
Rooftop Evaporator

**COOLING**
4.0 kW
13,648 BTU

**POWER SUPPLY**
24 VDC

**AIR FLOW**
100 l/s
212 CFM



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	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	S2501172S 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	2

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

COMPANION ITEMS

PART NO.	DESCRIPTION
FVV40	Pressuriser
H0404763	Hydraulic Driven Compressor 150 (Vertical)
H0428289	Electric Compressor (24 V)
AU110388	Radiator Condenser
AU270311	Compressor UP150 2A 24V VMO 132 OD PAG
AU531422	Receiver Drier
AU1101021	Radiator Condenser
AU110312	Radiator Condenser
AU270008	Engine Driven Compressor
AU270007	Engine Driven Compressor
EC12C4	Electric Condenser 24 V



DOZER



DRAGLINE & SHOVEL



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OVERHEAD CRANE



RAIL SPECIAL VEHICLE



TRUCK



UNDERGROUND EQUIPMENT



WHEEL LOADER



EPR4

ROOFTOP HVAC PACKAGE

EPR4AX1
Rooftop Packaged HVAC 4.5kW 12V

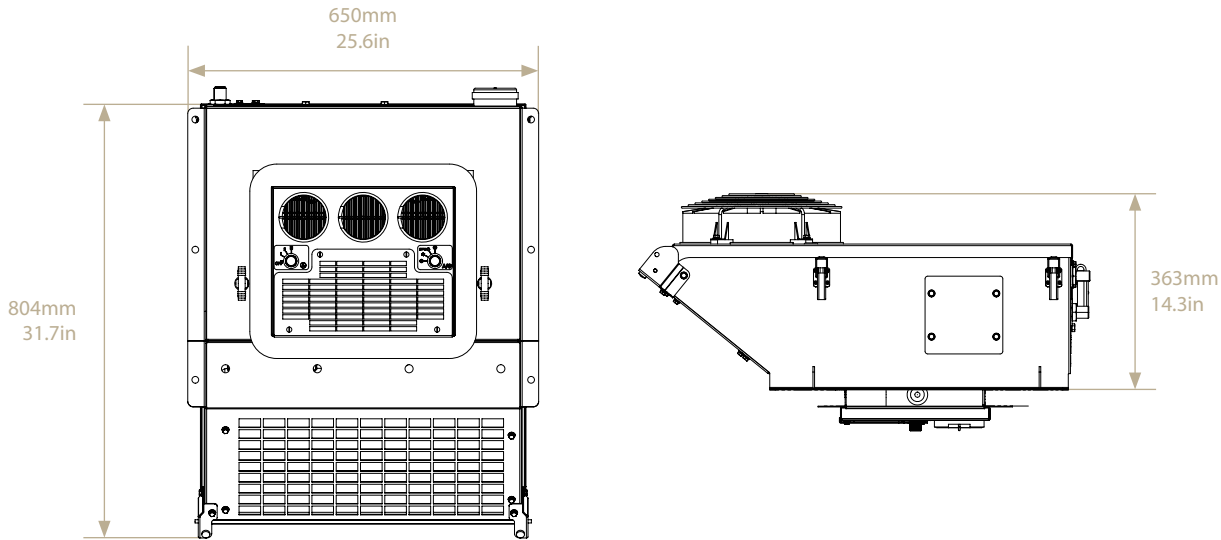
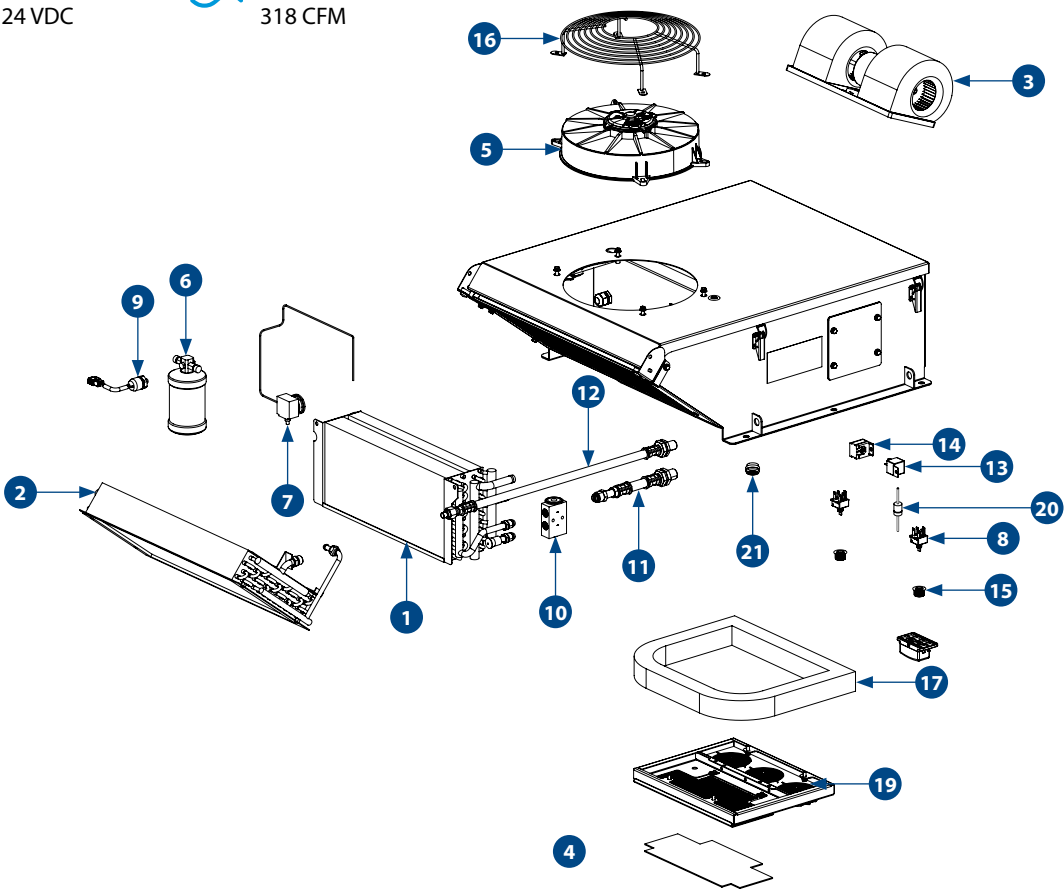
EPR4BX1
Rooftop Packaged HVAC 4.5kW 24V

**COOLING**
4.5 kW
15,354 BTU

**HEATING**
4.0 kW
13,648 BTU

**POWER SUPPLY**
12 V DC
24 VDC

**AIR FLOW**
150 l/s
318 CFM



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 H0032385	EVAPORATOR HEATER COIL	2
2 H0002358	CONDENSER COIL	2
3 AU400050 H0088451	BLOWER ASSEMBLY 3SPEED 12V (EPR4AX1) BLOWER ASSEMBLY 3SPEED 24V (EPR4BX1)	1 1
4 H0044857	PLENUM RETURN AIR FILTER MEDIA	1
5 H0097521 H0088425	CONDENSER FAN ASSEMBLY 280MM 12V (EPR4AX1) CONDENSER FAN ASSEMBLY 280MM 24V (EPR4BX1)	1 1
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 AU661483	RELAY 30A 12V (EPR4AX1) RELAY 20A 24V (EPR4BX1)	3 1
14 ERR023 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	3
20 H0283545	DIODE FOR EPR4AX1	1
21 UC022	KNOB SNOWFLAKE 6.35mm	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	4.5 kW	15,354 BTU
Heating Capacity (with Optional Kit)	4.0 kW	13,648 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 363mm	31.7in X 25.6in X 14.3in

MAINTENANCE

MONTHLY / 300 HOURS

H0044857	PLENUM RETURN AIR FILTER MEDIA
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ANNUAL / 3,600 HOURS

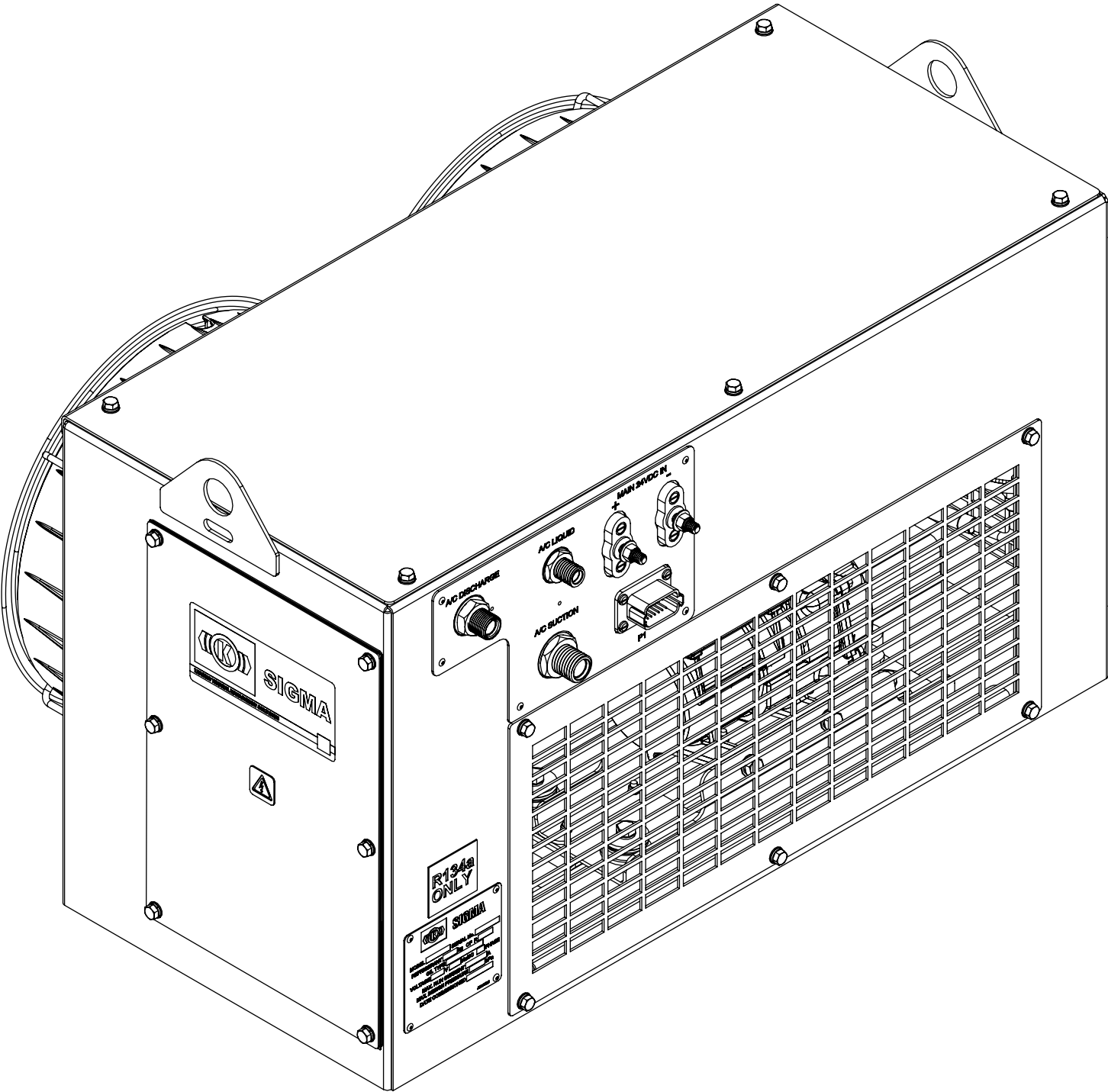
AU400050	BLOWER ASSEMBLY 3SPEED 12V (EPR4AX1)
H0088451	BLOWER ASSEMBLY 3SPEED 24V (EPR4BX1)
H0097521	CONDENSER FAN ASSEMBLY 280MM 12V (EPR4AX1)
H0088425	CONDENSER FAN ASSEMBLY 280MM 24V (EPR4BX1)
AU531422	RECEIVER DRIER 134A

3 YEARS / 10,800 HOURS

UE016	THERMOSTAT DEICE STUD
UE335	SWITCH 3-SPEED C/W NUT
UE064	HIGH / LOW PRESSURE SWITCH
H0092214	TX VALVE BLOCK 1.5T R134a

COMPANION ITEMS

PART NO.	DESCRIPTION
H0038939	Heater Kit (24V)
H0097524	Heater Kit (12V)
FVV40	Pressuriser (24V)
H0404763	Hydraulic Driven Compressor 150 (Vertical)
H0428289	Electric Compressor (24V)
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



H SERIES

Hybrid Systems

Our H SERIES are high performance compact air conditioning hybrid systems that can be driven by a combination of diesel, electric or hydraulic motor.

Designed to meet the requirements of industrial range of products while maintaining quiet and smooth operation.

Available as either standalone assemblies, packaged in an easy to fit housing inclusive of basic controls, or integrated into the SIGMA E & T SERIES.

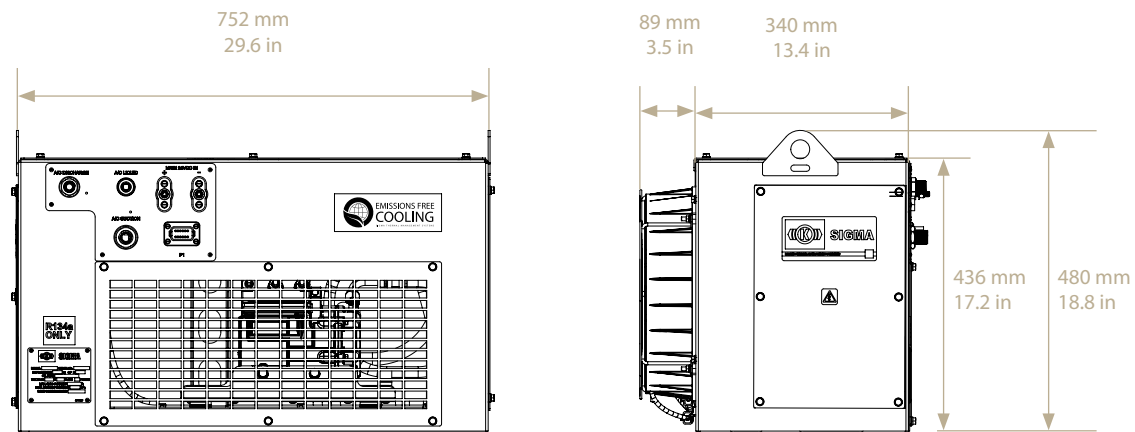
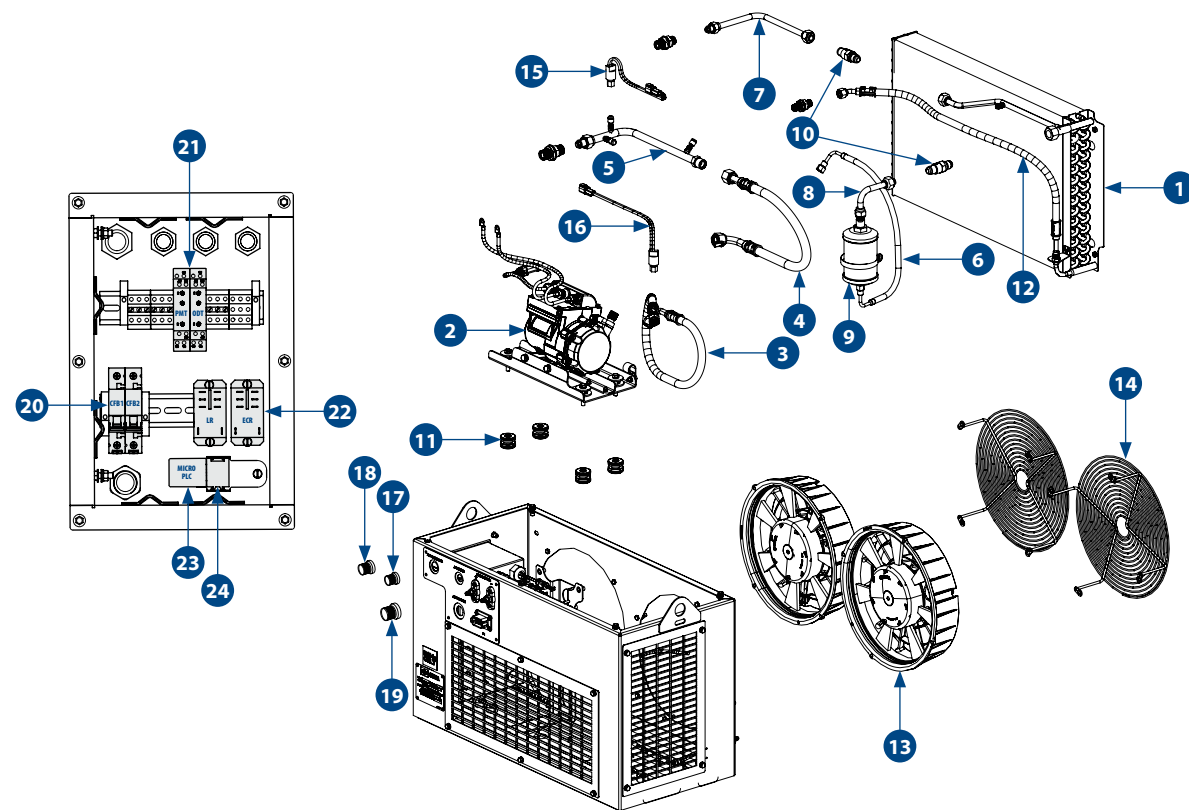
MODEL	PAGE
HCF6BX4	44 - 45
	
H0433161	44

HCF6BX4

EMISSIONS FREE COOLING SYSTEM

H0433161

Floor Mounted Condenser 24VDC



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU1101020	COND COIL 610X381X64 4RW ECF6	1
2 H0428289	Electric Compressor 24V Previously AU2961001	1
3 H0437200	HOSE ASSY - DISCHARGE	1
4 H0437203	HOSE ASSY - SUCTION	1
5 AS3993048	SUCTION LINE ASSY - BULKHEAD TO COMP	1
6 AU5551001	OIL SEPARATOR HOSE	1
7 AS3993054	DISCHARGE ASSY - BULKHEAD TO CHECK VALVE	1
8 AS3993052	CHECK VALVE TO OIL SEPARATOR ASSY	1
9 AU270341	OIL SEP 3/4" 16UNF 0.37 L/MIN	1
10 H0014480	VALVE CHECK 1/2" MF	2
11 H0102227	VIB MNT SCHR35 RUBBER 55SH	4
12 H0130781	HOSE ASSEMBLY,REFRIGERANT,795MM LONG	1
13 H0281808	FAN,ASSEMBLY,BRUSHLESS 24VDC DIA 305MM	2
14 H0279389	FAN GUARD,ASSEMBLY	2
15 H0152017	LOW PRESSURE SWITCH ASSEMBLY	1
16 H0148597	HIGH PRESSURE SWITCH ASSEMBLY	1
17 AU512C065	BULKHEAD FTG O-RING 3/8"	1
18 AU512C066	BULKHEAD FTG O-RING 1/2"	1
19 AU512C067	BULKHEAD FTG O-RING 5/8"	1
20 AU641119	CIRCUIT BREAKER 16A 1 POLE	2
21 AU672500	TIMER, MULTI FUNCTION 12-240V AC/DC	2
22 H0269190	RELAY FOR 24V DC	3
23 H0611101	MICRO PROGRAMMABLE LOGIC CONTROLLER	1
24 H0530102	9 PIN RELAY SOCKET	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	3.9 kW	13307 BTU
Fan Speeds	1	1
Air Flow	670 l/s	1419 CFM
Power Supply	24VDC	24VDC
Current Draw	105 A	105 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	60 kgs	132.2 lbs
Technical Manual Reference	SM508-3993	SM508-3993
Dimension (L X W X H)	752mm X 429mm X 480mm	29.6in X 16.8in X 18.8in

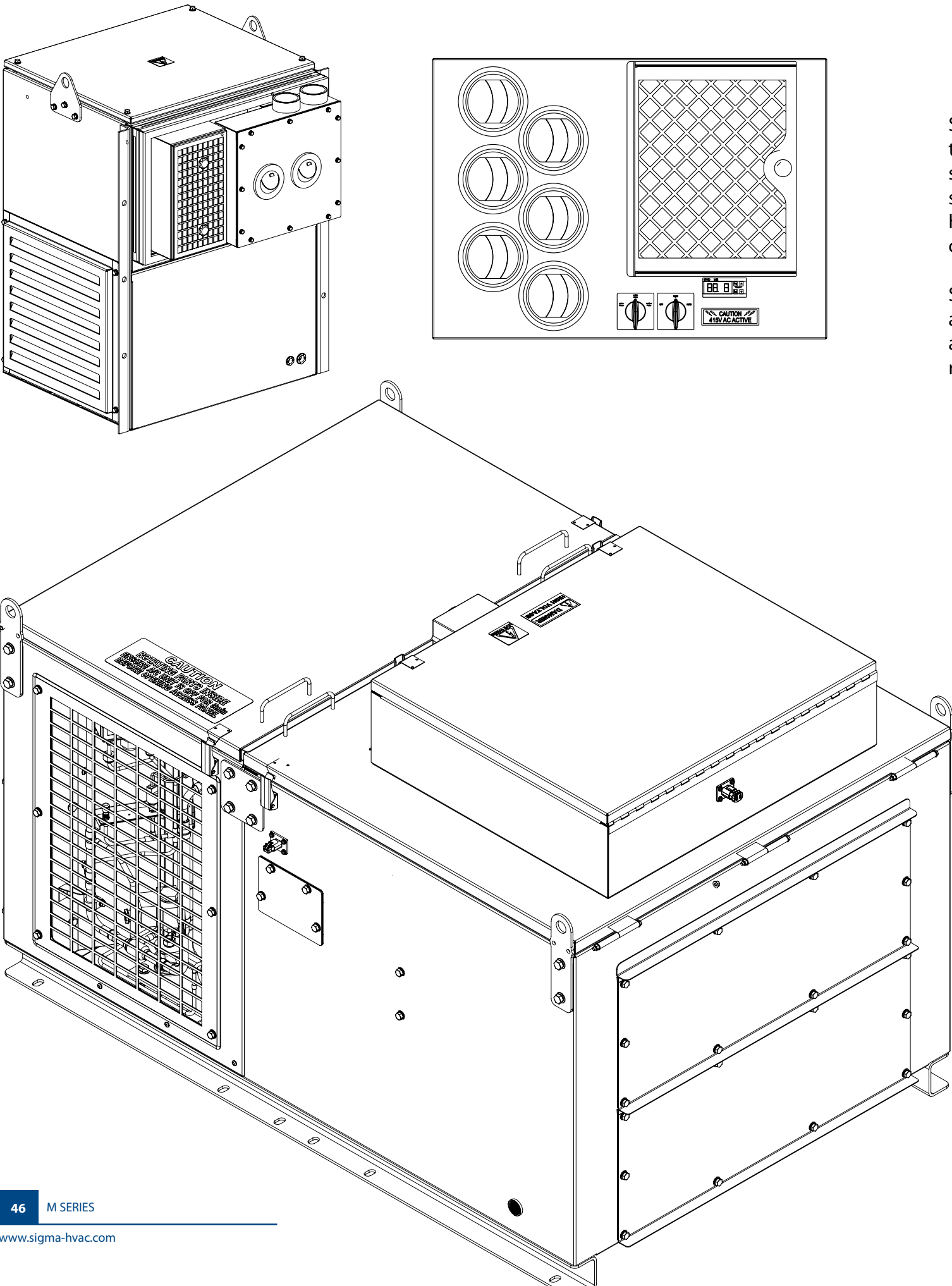
MAINTENANCE

3 YEARS / 10,800 HOURS

H0428289	Electric Compressor 24V
H0102227	VIB MNT SCHR35 RUBBER 55SH
H0281808	FAN ASSEMBLY BRUSHLESS 24VDC DIA 305MM

COMPANION ITEMS

PART NO.	DESCRIPTION
EC12I4	Internal Wall Mount Evaporator 4kW 24V
EC12H4	Ceiling Mount Evaporator 4kW 24V
EC22H4	Ceiling Evaporator 6kW 24V
EFF4BX1	Internal Evaporator 4kW 24V with Heating
EFF5BX3	Floor Mounted Evaporator 5kW 24V with Heating
TFR7BX2	Rooftop Evaporator 7kW 24V with Heating



SIGMA M SERIES air conditioners are designed to provide a climate controlled, conditioned space for drag lines, crane operator cabins, switch rooms and other applications where heavy shock load, vibration and dust saturated corrosive environments are experienced.

SIGMA M-Series systems are designed to meet applications of high cooling/heating capacities at high ambient, up to 50°C, with high levels of reliability and serviceability.

MODEL	PAGE
MPF6MX11 (H0550437)	48
MPR9MX1	50 - 57
M9 MX1 EVAPORATOR	50
M9 MX1 CONDENSER	52
M9 MX1 PREVIOUS ELECTRICAL	54
M9 MX1 CURRENT ELECTRICAL	56
MPR9VX1	58 - 63
M9 VX1 EVAPORATOR	58
M9 VX1 CONDENSER	60
M9 VX1 ELECTRICAL	62
MPR25MX1	64 - 69
M25 MX1 EVAPORATOR	64
M25 MX1 CONDENSER	66
M25 MX1 ELECTRICAL	68
MPV5MX2	70
MPW5MX1	72 - 75
MPW5 REFRIGERATION / GENERAL ASSEMBLY	72
MPW5 ELECTRICAL	74



MPF6MX11

FLOOR MOUNTED UPRIGHT HVAC UNIT

H0550437

Floor Mounted Upright Packaged HVAC 6kW 415VAC without Pressuriser





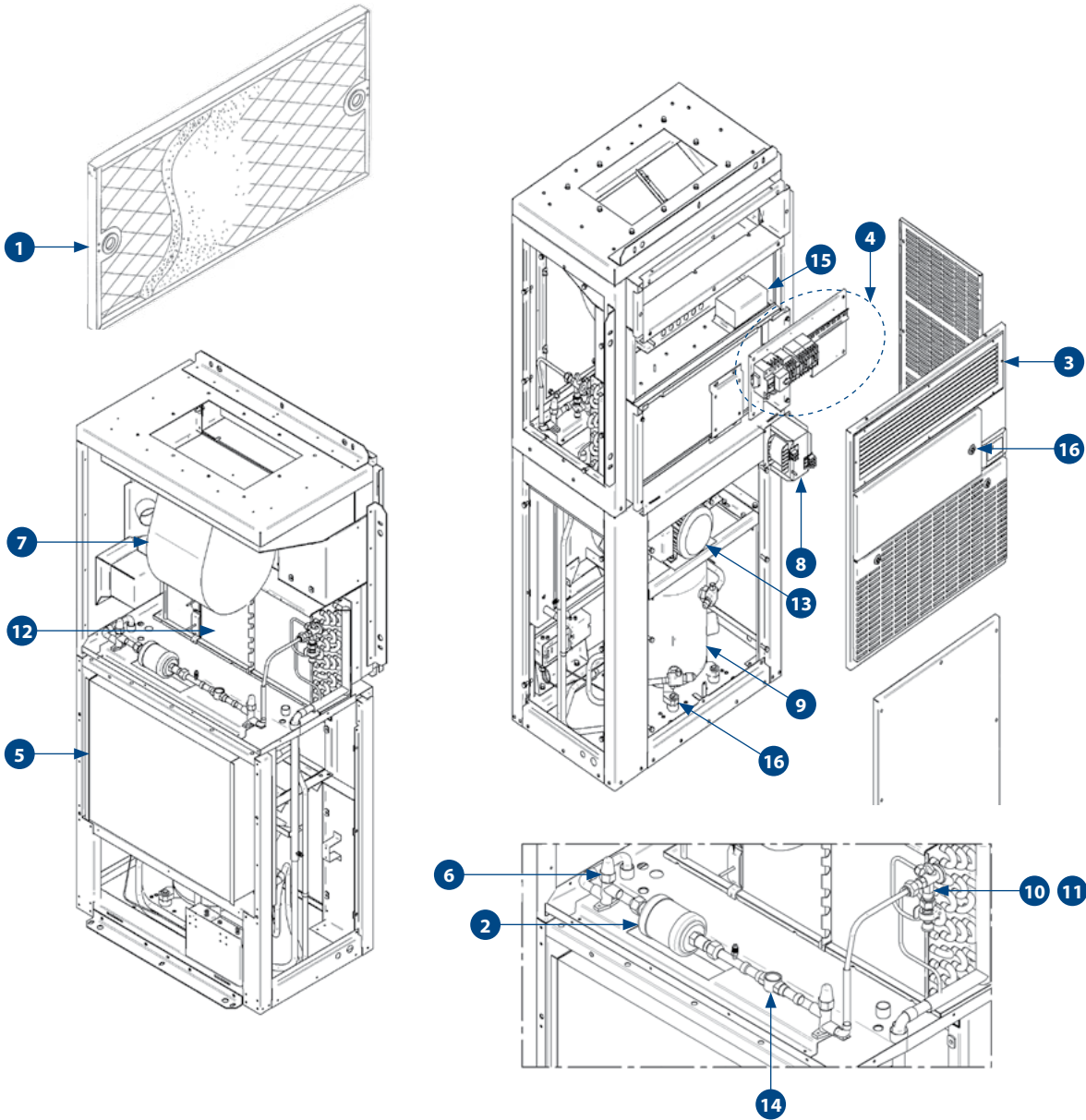
COOLING
6.0 kW
20,472 BTU



POWER SUPPLY
415 VAC
3 phase - 50Hz



AIR FLOW
270 l/s
572 CFM



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AS242745 S2427088	RETURN AIR FILTER ASSY RETURN AIR MEDIA FOR AS242745	1 1
2 AU531358	DRIER 5/8" MF	1
3 AU821136	LOUVRE 646MM X 136MM OPEN AREA DOUBLE DEFLECT	1
AU641390 4 AU641496 AU651303	CIRCUIT BREAKER 4A 2 POLE CIRCUIT BREAKER 11.0-16.0A 3 POLE CONTACTOR 9A 240VAC 3 POLE 1NO 1NC	1 1 2
5 AU110429	CONDENSER COIL 600 X 508 X 110 4RW MPF	1
6 H0124652	CAPPED LINE VALVE, 5/8"	2
7 AU410503	BLOWER ASSEMBLY 240V 50HZ	1
8 AU666026	TRANSFORMER 415V 240V 24V 500VA	1
9 H0096689	VERTICAL SCROLL COMPRESSOR	1
10 AU521505	TX ORIFICE 2T R22 #05	1
11 AU521509	TX VALVE 2T 3/8" IN 1/2" OUT 1/4" EQ R134A	1
12 AU120284	EVAPORATOR COIL 610MM X 318MM X 110MM 4RW	1
13 AU310214	MOTOR 0.75KW 80P FT 4P	1
14 AU533556	LMI 5/8" SOLDER	1
15 H0150820	THERMOSTAT CONTROL KIT	1
16 AU845248	ANTI VIBRATION MOUNT	4
AU851566	LATCH 1/4 TURN	3
AU420252	FAN AXIAL 400MM 9 BLADES	1
AU862213	SEAL RUBBER	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	6.0 kW	20,472 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	12A	12A
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)"	1512 mm X 1145 mm X 970 mm	59.5 in X 45.1 in X 38.2i n

MAINTENANCE

MONTHLY / 450 HOURS

AS242745	RETURN AIR FILTER ASSY
S2427088	RETURN AIR MEDIA for AS242745

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
AU521505	TX ORIFICE 2T R22 #05

COMPANION ITEMS

PART NO.	DESCRIPTION
FVV50M1	Pressuriser

Please be advised, the following items may be required while replacing compressor **H0096689**:

H0070195 COMP BLANK ASSY - 7/8
H0070197 COMP BLANK TUBE - 3/8
AU845248 ANTI VIB MNT 17/409-45 (4 qty)



DOZER



DRAGLINE & SHOVEL



DRILL



EXCAVATOR



FORKLIFT & TELEHANDLERS



OVERHEAD CRANE



RAIL SPECIAL VEHICLE



TRUCK



UNDERGROUND EQUIPMENT



WHEEL LOADER



MPR9MX1

EVAPORATOR

ROOFTOP PACKAGED HVAC UNIT

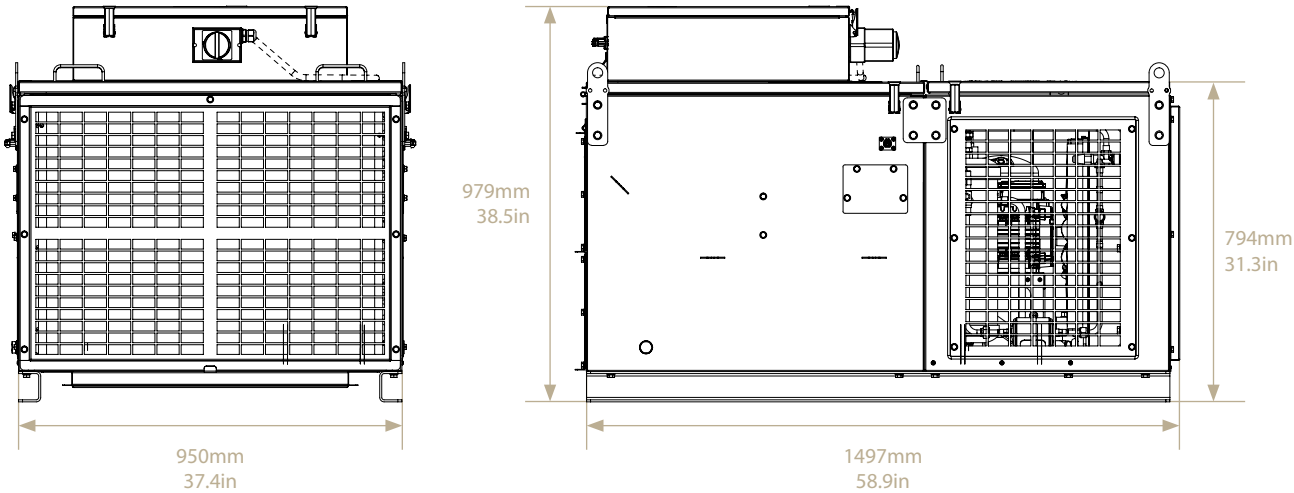
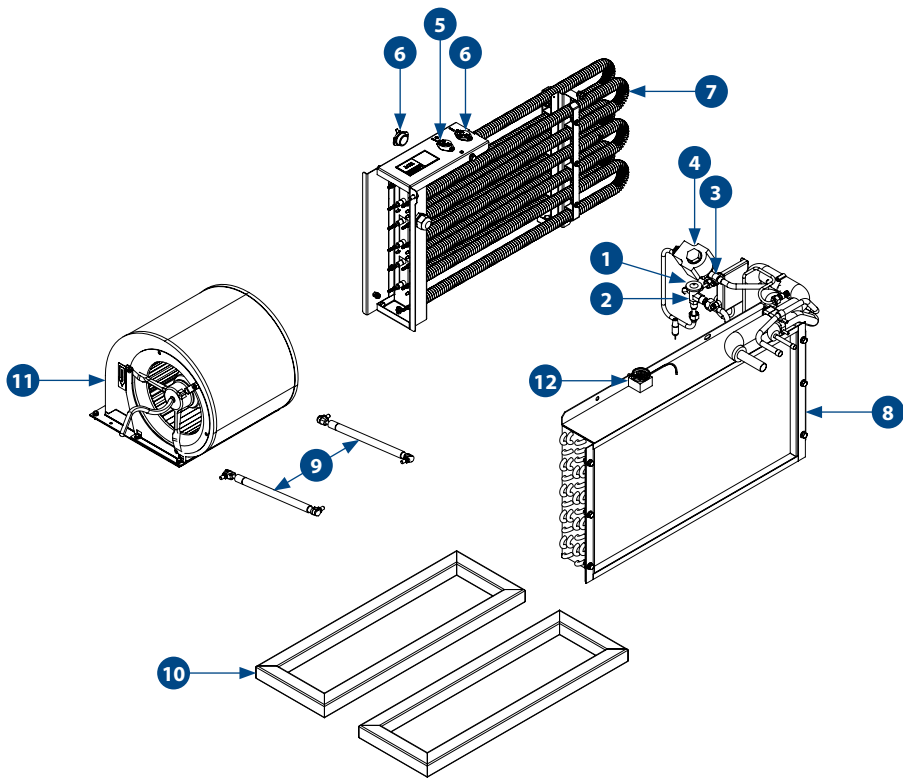
MPR9MX1
10kW 380/415/460 VAC with Heating (12kW)

**COOLING**
10.0 kW
34,120 BTU

**HEATING (OPTION)**
12.0 kW
40,944 BTU

**POWER SUPPLY**
380/415/460 VAC
3 phase 50/60Hz

**AIR FLOW**
610 l/s
1,293 CFM



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1	AU521508 TX ORIFICE 2T R22 #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 THERMOSTAT HOT2	1
6	AU6811013 THERMOSTAT HOT1 & HHS	2
7	AU691C041 HEATER ELEMENT 277V 2500W	6
8	H0070297 EVAPORATOR COIL	1
9	H0080806 GAS STRUT	2
10	H0080812 RA / SA OPENING SEAL	2
11	H0082201 SUPPLY AIR FAN ASSY	1
12	UE016 THERMOSTAT DEICE STUD MTG	1
AU862211	SEAL RUBBER	4.5m

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	10.0 kW	34,120 BTU
Heating Capacity	12.0 kW	40,944 BTU
Fan Speeds	2	2
Air Flow	610 l/s	1,293 CFM
Fresh Air	22 l/s	47 CFM
Power Supply	380/415/460 VAC 3 Phase, 50/60Hz	380/415/460 VAC 3 Phase, 50/60Hz
Current Draw	31 A	31 A
Refrigerant	R134a	R134a
Minimum Ambient Temperature	-10°C	14°F
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	457.0 Kg	1005.4 lbs
Technical Manual Reference	HD0031057	HD0031057
Dimension (L X W X H)	1497 mm X 950 mm X 979 mm	58.9 in X 37.4 in X 38.5 in

MAINTENANCE

3 YEARS / 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

COMPANION ITEMS

PART NO.	DESCRIPTION
AS2134155S	RETURN AIR FILTER ASSEMBLY
H0082092	RETURN AIR FILTER ASSEMBLY COIL MOUNT
FVV40	Pressuriser 24V
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



MPR9MX1

CONDENSER

ROOFTOP PACKAGED HVAC UNIT

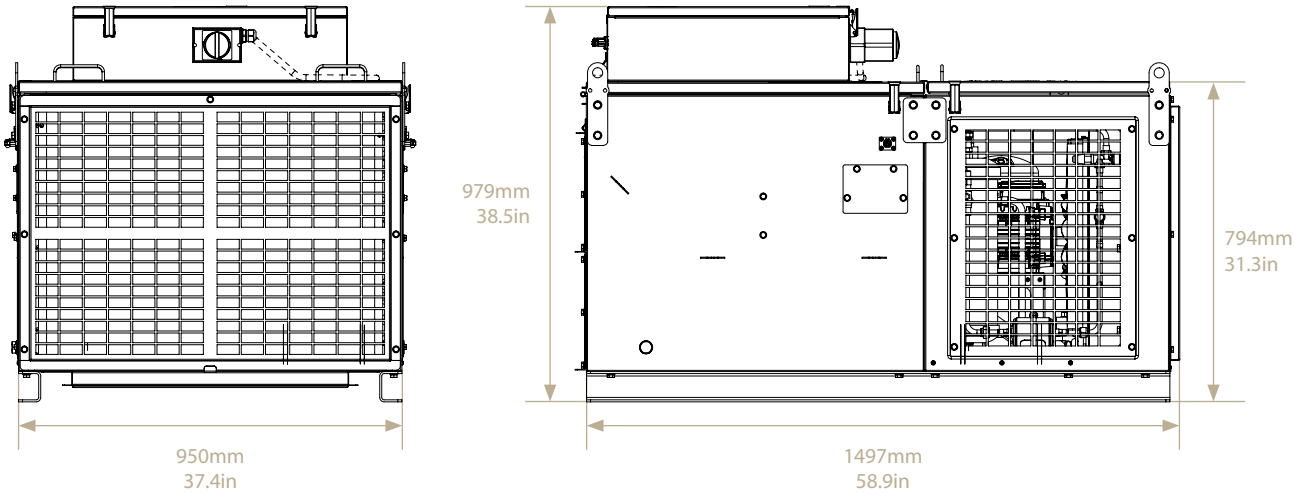
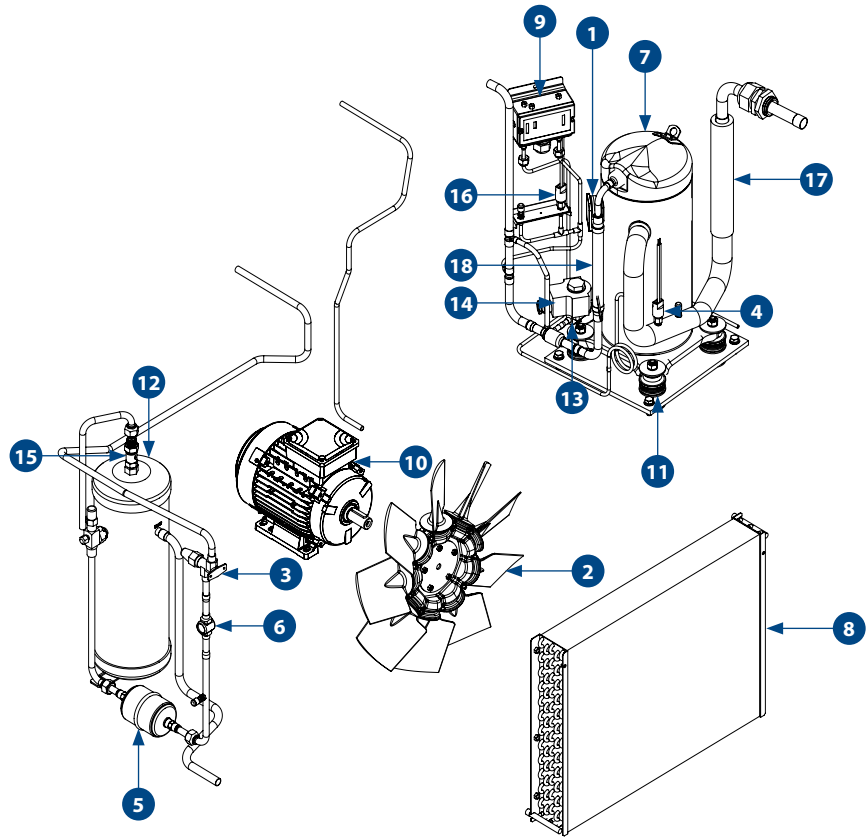
MPR9MX1
10kW 380/415/460 VAC with Heating (12kW)

**COOLING**
10.0 kW
34,120 BTU

**HEATING (OPTION)**
12.0 kW
40,944 BTU

**POWER SUPPLY**
380/415/460 VAC
3 phase 50/60Hz

**AIR FLOW**
610 l/s
1,293 CFM



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU230818	COMPRESSOR LEAD Previously AU230818	1
2 AU420157	CONDENSER FAN	1
3 AU517256	PCAV 1/2" SOLDER	1
4 H0152017	LOW PRESSURE CONTROL	1
5 AU531356	LIQUID LINE FILTER	1
6 AU533136	LIQUID MOISTURE INDICATOR	1
7 652A20006	COMPRESSOR	1
8 H0072613	CONDENSER COIL	1
9 AU523112	DUAL PRESSURE CONTROL LP AUTO HP AUTO	1
10 H0080329	CONDENSER FAN MOTOR	1
11 H0103172	VIBRATION MOUNT	4
12 AU160C012	RECEIVER LIQUID VERT 6X18 MP	1
13 AU522021	SOLENOID VALVE 3/8" SOLDER NC	1
14 AU668140	COIL SOLENOID 24VDC TYPE 1	1
15 AU527126	RELIEF VALVE 3/8" MNPT x 2.7MPa	1
16 H0148597	HIGH PRESSURE CONTROL	1
17 H0080748	VIBRATION ELIMINATOR (SUCTION)	1
18 H0080749	VIBRATION ELIMINATOR (DISCHARGE)	1
AU542026	REFRIGERANT OIL	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	10.0 kW	34,120 BTU
Heating Capacity	12.0 kW	40,944 BTU
Fan Speeds	2	2
Air Flow	610 l/s	1,293 CFM
Fresh Air	22 l/s	47 CFM
Power Supply	380/415/460 VAC 3 Phase, 50/60Hz	380/415/460 VAC 3 Phase, 50/60Hz
Current Draw	31 A	31 A
Refrigerant	R134a	R134a
Minimum Ambient Temperature	-10°C	14°F
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	457.0 Kg	1005.4 lbs
Technical Manual Reference	HD0031057	HD0031057
Dimension (L X W X H)	1497 mm X 950 mm X 979 mm	58.9 in X 37.4 in X 38.5 in

MAINTENANCE

ANNUAL / 5,400 HOURS

AU531356 LIQUID LINE FILTER

3 YEARS / 16,200 HOURS

H0152017 LOW PRESSURE CONTROL

H0148597 HIGH PRESSURE CONTROL

AU542026 REFRIGERANT OIL

AU523112 DUAL PRESSURE CONTROL

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

PREVIOUS ELECTRICAL (serial no. 100031 & under)

ROOFTOP PACKAGED HVAC UNIT

MPR9MX1

10kW 380/415/460 VAC with Heating (12kW)

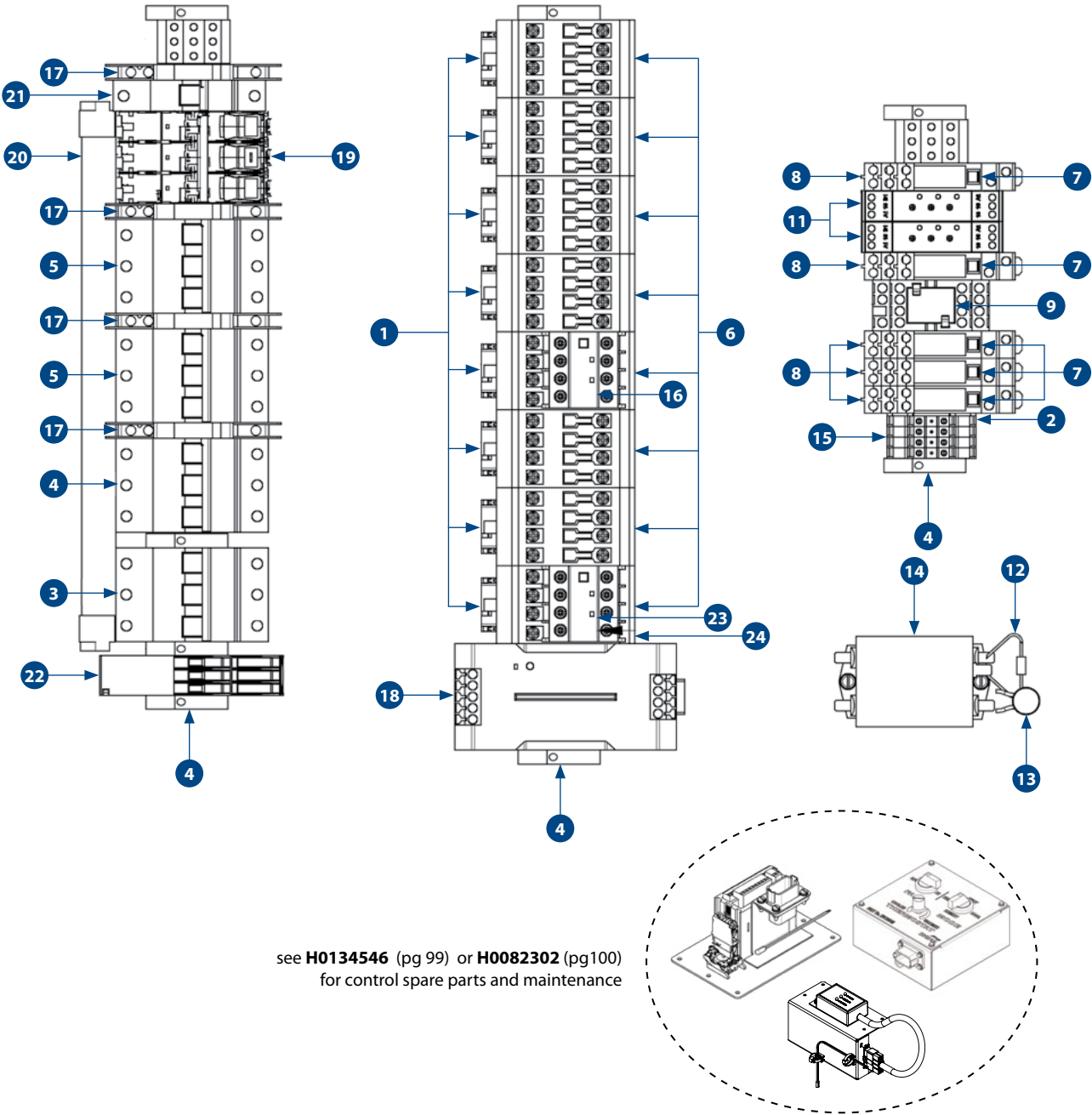


**COOLING**
10.0 kW
34,120 BTU

**HEATING (OPTION)**
12.0 kW
40,944 BTU

**POWER SUPPLY**
380/415/460 VAC
3 phase 50/60Hz

**AIR FLOW**
610 l/s
1,293 CFM



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	CONTACTOR	7
7 AU661040	24V 2 POLE RELAY	5
8 H0343830	RELAY BASE 8 PIN Previously AU661041	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 CONTACTOR	1
17 H0082715	AUXILIARY CONTACT CB	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
23 642B20039	AUXILIARY CONTACT	1
24 H0060331	CONTACTOR	1
TTP5322	MECHANICAL INTERLOCK	2
AU862211	SEAL RUBBER	2.5m

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	10.0 kW	34,120 BTU
Heating Capacity	12.0 kW	40,944 BTU
Fan Speeds	2	2
Air Flow	610 l/s	1,293 CFM
Fresh Air	22 l/s	47 CFM
Power Supply	380/415/460 VAC 3 Phase, 50/60Hz	380/415/460 VAC 3 Phase, 50/60Hz
Current Draw	31 A	31 A
Refrigerant	R134a	R134a
Minimum Ambient Temperature	-10°C	14°F
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	457.0 Kg	1005.4 lbs
Technical Manual Reference	HD0031057	HD0031057
Dimension (L X W X H)	1497 mm X 950 mm X 979 mm	58.9 in X 37.4 in X 38.5 in

COMPANION ITEMS

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

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

CURRENT ELECTRICAL (serial no. 100035 onwards)

ROOFTOP PACKAGED HVAC UNIT

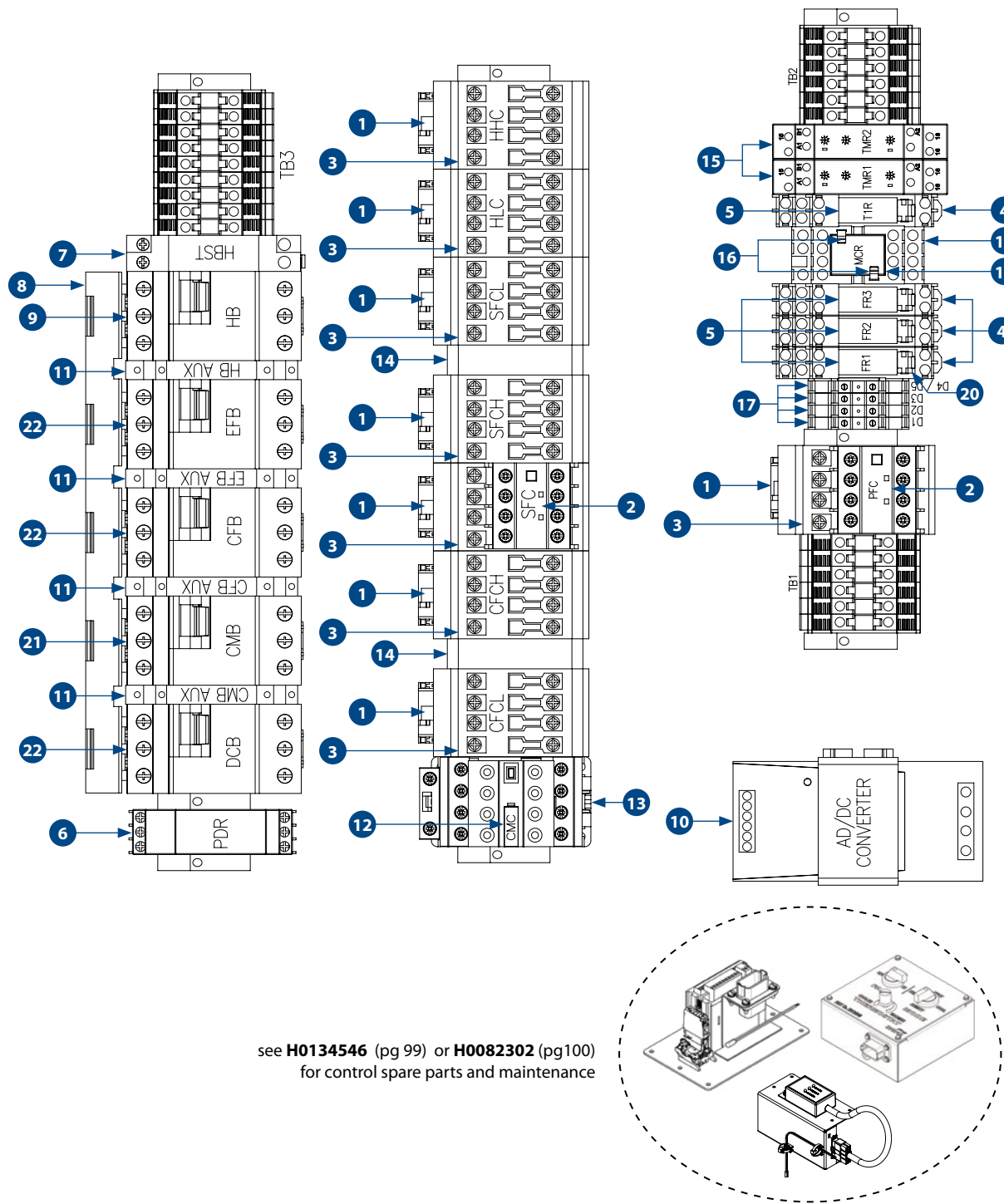
MPR9MX1
10kW 380/415/460 VAC with Heating (12kW)

**COOLING**
10.0 kW
34,120 BTU

**HEATING (OPTION)**
12.0 kW
40,944 BTU

**POWER SUPPLY**
380/415/460 VAC
3 phase 50/60Hz

**AIR FLOW**
610 l/s
1,293 CFM



see **H0134546** (pg 99) or **H0082302** (pg100)
for control spare parts and maintenance

SPARE PARTS

PART NO.	DESCRIPTION	QTY
1	642E058 SURGE SUPPRESSOR	8
2	H0082714 AUX CONTACT SFC/PFC	2
3	AU651544 CONTACTOR	8
4	H0343830 RELAY, BASE FOR 8 PIN G2R	4
5	AU661040 RELAY 8 PIN 24VDC 2 POLES	4
6	H0249468 PHASE DETECTION RELAY	1
7	H0236005 SHUNT TRIP, 380-400VAC 50HZ	1
8	H0222341 BUSBAR	1
9	H0222339 CIRCUIT BREAKER	1
10	H0222338 CONVERTER	1
11	AU641454 CIRCUIT BREAKER AUX 1NO 1NC	4
12	642B20039 AUX. CONTACT - CMC	1
13	H0060331 CONTACTOR	1
14	TTP5322 INTERLOCK	2
15	AU672500 TIMER ON DELAY 24VDC 0.1SEC-100HR 1 POLE	2
16	AU661046 RLY CLIPS FOR MY4N	2
17	AU674401 DIODE TERM BLOCK COMMON CATHOD	4
18	AU661045 RLY BASE FOR MY4N	1
19	AU661044 RLY OMRON 24VDC 4 POLES	1
20	AU635446 END PLATE	1
21	642M279 CIRCUIT BREAKER	1
22	642M076 CIRCUIT BREAKER	3
	AU862211 SEAL RUBBER	2.5m

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	10.0 kW	34,120 BTU
Heating Capacity	12.0 kW	40,944 BTU
Fan Speeds	2	2
Air Flow	610 l/s	1,293 CFM
Fresh Air	22 l/s	47 CFM
Power Supply	380/415/460 VAC 3 Phase, 50/60Hz	380/415/460 VAC 3 Phase, 50/60Hz
Current Draw	31 A	31 A
Refrigerant	R134a	R134a
Minimum Ambient Temperature	-10°C	14°F
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	457.0 Kg	1005.4 lbs
Technical Manual Reference	HD0031057	HD0031057
Dimension (L X W X H)	1497 mm X 950 mm X 979 mm	58.9 in X 37.4 in X 38.5 in

COMPANION ITEMS

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

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.



DOZER



DRAGLINE & SHOVEL



DRILL



EXCAVATOR



FORKLIFT & TELEHANDLERS



OVERHEAD CRANE



RAIL SPECIAL VEHICLE



TRUCK



UNDERGROUND EQUIPMENT



WHEEL LOADER



MPR9VX1

EVAPORATOR

ROOFTOP PACKAGED HVAC UNIT

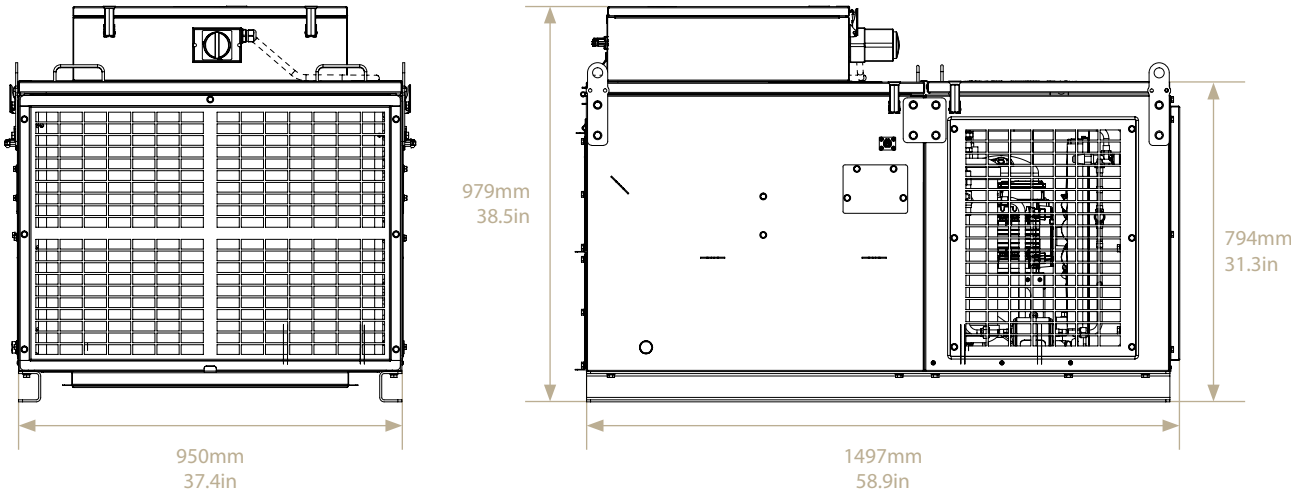
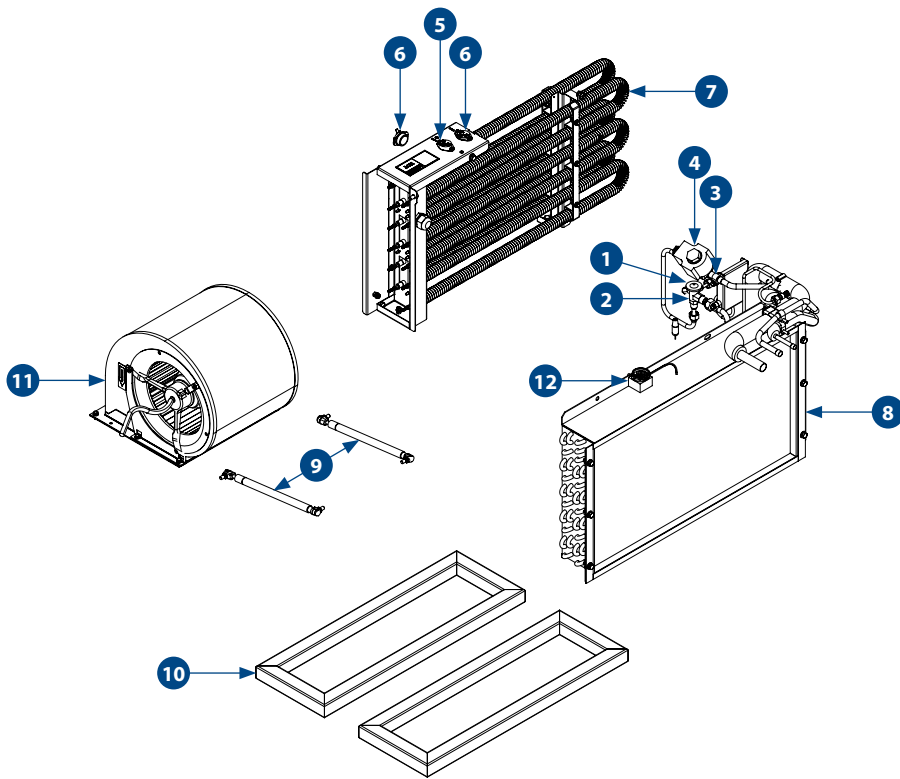
MPR9VX1
10kW 460/575 VAC with Heating (12kW)

**COOLING**
10.0 kW
34,120 BTU

**HEATING (OPTION)**
12.0 kW
40,944 BTU

**POWER SUPPLY**
460/575 VAC
3 phase 50/60Hz

**AIR FLOW**
610 l/s
1,293 CFM



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1	AU521508 TX ORIFICE 2T R22 #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 THERMOSTAT HOT2	1
6	AU6811013 THERMOSTAT HOT1 & HHS	2
7	AU691C291 HEATER ELEMENT 240V 2500W Previously AU691C041	6
8	H0070297 EVAPORATOR COIL	1
9	H0080806 GAS STRUT	2
10	H0080812 RA / SA OPENING SEAL	2
11	H0254032 SUPPLY AIR FAN ASSY Previously H0082201	1
12	UE016 THERMOSTAT DEICE STUD MTG	1
AU862211	SEAL RUBBER	2.5m

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	10.0 kW	34,120 BTU
Heating Capacity	12.0 kW	40,944 BTU
Fan Speeds	2	2
Air Flow	610 l/s	1,293 CFM
Fresh Air	22 l/s	47 CFM
Power Supply	460/575 VAC 3 Phase, 50/60Hz	460/575 VAC 3 Phase, 50/60Hz
Current Draw	32 A	32 A
Refrigerant	R134a	R134a
Minimum Ambient Temperature	-10°C	14°F
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	457.0 Kg	1005.4 lbs
Technical Manual Reference	HD0031057	HD0031057
Dimension (L X W X H)	1497 mm X 950 mm X 979 mm	58.9 in X 37.4 in X 38.5 in

MAINTENANCE

3 YEARS / 16,200 HOURS

UE016	THERMOSTAT DEICE STUD
AU521508	TX ORIFICE 2T R22 #06
AU521509	TX VALVE 2T 3/8"IN 1/2"OUT 1/4"EQ R134a
AU862211	SEAL RUBBER

COMPANION ITEMS

PART NO.	DESCRIPTION
AS2134155S	RETURN AIR FILTER ASSEMBLY
H0082092	RETURN AIR FILTER ASSEMBLY COIL MOUNT
FVV40	Right Hand Pressuriser Assembly 24V
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



DOZER



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OVERHEAD CRANE



RAIL SPECIAL VEHICLE



TRUCK



UNDERGROUND EQUIPMENT



WHEEL LOADER



MPR9VX1

CONDENSER

ROOFTOP PACKAGED HVAC UNIT

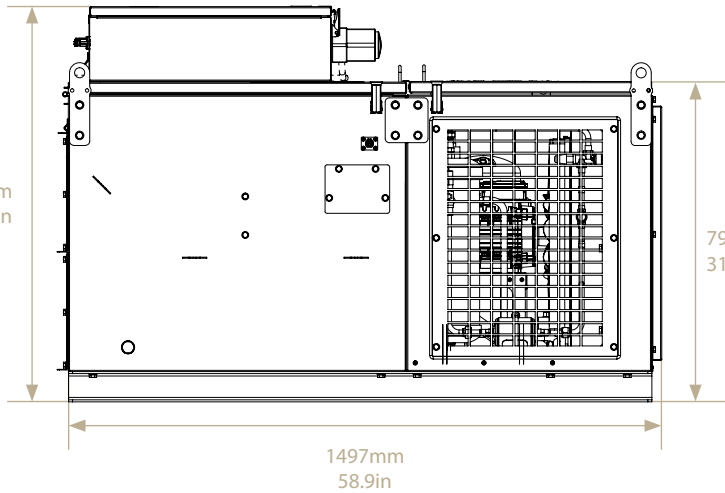
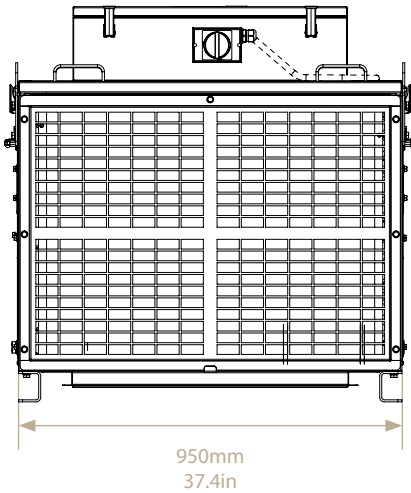
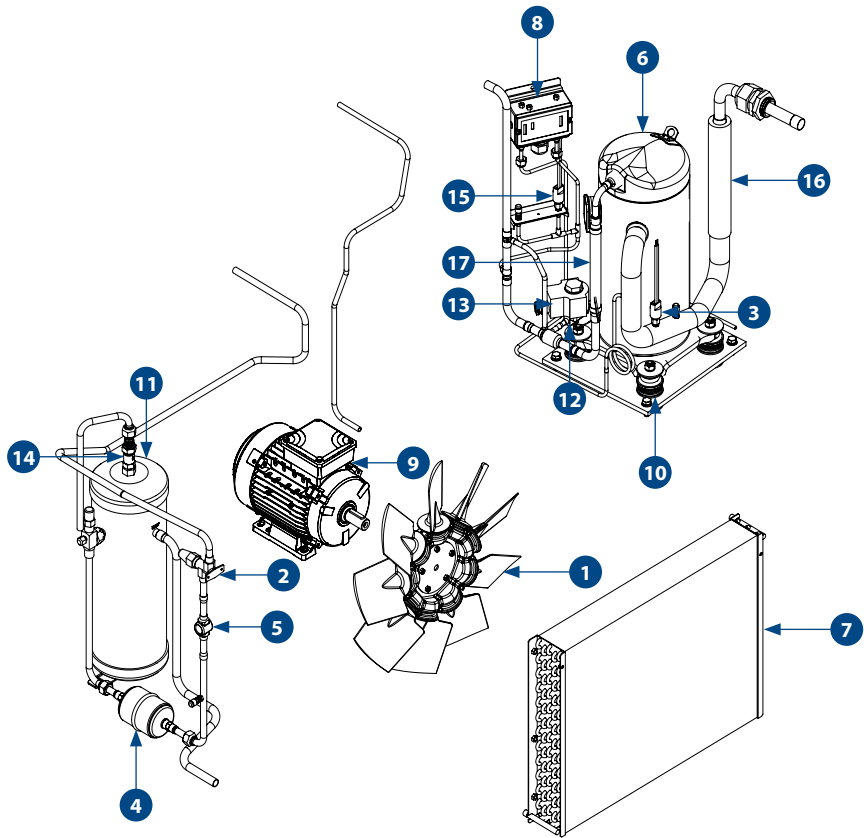
MPR9VX1
10kW 460/575 VAC with Heating (12kW)

**COOLING**
10.0 kW
34,120 BTU

**HEATING (OPTION)**
12.0 kW
40,944 BTU

**POWER SUPPLY**
460/575 VAC
3 phase 50/60Hz

**AIR FLOW**
610 l/s
1,293 CFM



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1	AU420157 CONDENSER FAN	1
2	AU517256 PCAV 1/2" SOLDER	1
3	H0152017 LOW PRESSURE CONTROL	1
4	AU531356 LIQUID LINE FILTER	1
5	AU533136 LIQUID MOISTURE INDICATOR	1
6	H0234959 COMPRESSOR	1
7	H0072613 CONDENSER COIL	1
8	AU523112 DUAL PRESSURE CONTROL LP AUTO HP AUTO	1
9	H0234437 CONDENSER FAN MOTOR	1
10	H0103172 VIBRATION MOUNT	4
11	AU160C012 RECEIVER LIQUID VERT 6X18 MP	1
12	AU522021 SOLENOID VALVE 3/8" SOLDER NC	1
13	AU668140 COIL SOLENOID 24VDC TYPE 1	1
14	AU527126 RELIEF VALVE 3/8" MNPT x 2.7MPa	1
15	H0148597 HIGH PRESSURE CONTROL	1
16	H0080748 VIBRATION ELIMINATOR (SUCTION)	1
17	H0080749 VIBRATION ELIMINATOR (DISCHARGE)	1
AU542026 REFRIGERANT OIL		1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	10.0 kW	34,120 BTU
Heating Capacity	12.0 kW	40,944 BTU
Fan Speeds	2	2
Air Flow	610 l/s	1,293 CFM
Fresh Air	22 l/s	47 CFM
Power Supply	460/575 VAC 3 Phase, 50/60Hz	460/575 VAC 3 Phase, 50/60Hz
Current Draw	32 A	32 A
Refrigerant	R134a	R134a
Minimum Ambient Temperature	-10°C	14°F
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	457.0 Kg	1005.4 lbs
Technical Manual Reference	HD0031057	HD0031057
Dimension (L X W X H)	1497 mm X 950 mm X 979 mm	58.9 in X 37.4 in X 38.5 in

MAINTENANCE

ANNUAL / 5,400 HOURS

AU531356 LIQUID LINE FILTER

3 YEARS / 16,200 HOURS

H0152017 LOW PRESSURE CONTROL

H0148597 HIGH PRESSURE CONTROL

AU542026 REFRIGERANT OIL

AU523112 DUAL PRESSURE CONTROL

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.

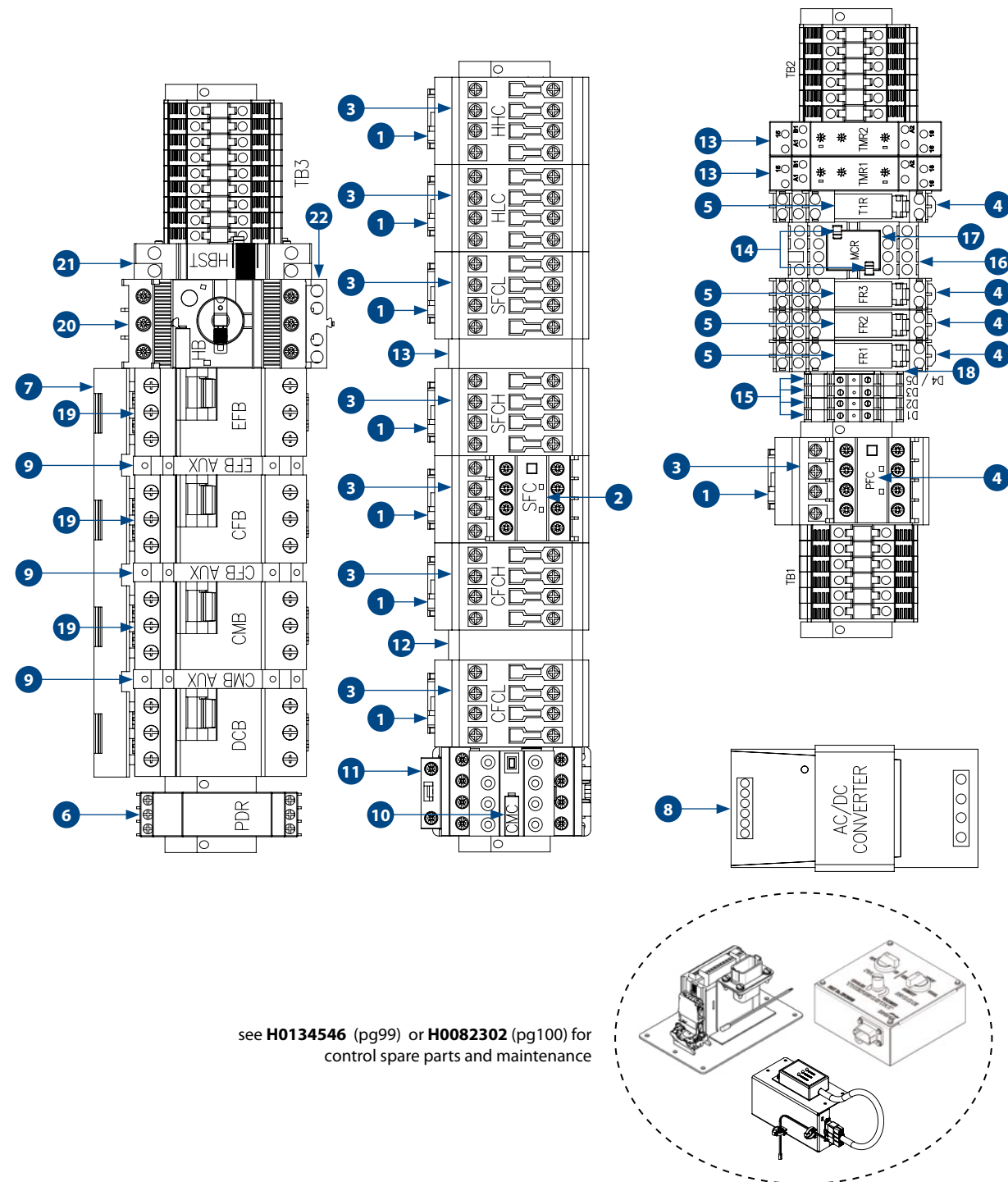
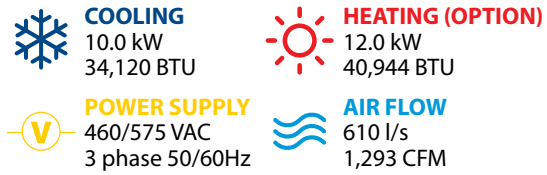
MPR9VX1

ELECTRICAL

ROOFTOP PACKAGED HVAC UNIT

MPR9VX1

10kW 460/575 VAC with Heating (12kW)



see **H0134546** (pg99) or **H0082302** (pg100) for
control spare parts and maintenance

SPARE PARTS

PART NO.	DESCRIPTION	QTY
1	642E058 SURGE SUPPRESSOR	8
2	H0082714 AUXILIARY CONTACT SFC/PFC	2
3	AU651544 CONTACTOR	8
4	H0343830 RELAY, BASE FOR 8 PIN	5
5	AU661040 RELAY 8 PIN 24VDC 2 POLES	5
6	H0249468 PHASE DETECTION RELAY	1
7	H0222341 BUSBAR	1
8	H0222338 CONVERTER	1
9	AU641454 CIRCUIT BREAKER AUX 1NO 1NC	1
10	642B20039 AUXILIARY CONTACT - CMC	3
11	H0060331 CONTACTOR	1
12	TTP5322 INTERLOCK	1
13	AU672500 TIMER ON DELAY 24VDC 0.1SEC-100HR 1 POLE	2
14	AU661046 RLY CLIPS FOR MY4N	2
15	AU674401 DIODE TERM BLOCK COMMON CATHOD	2
16	AU661045 RLY BASE FOR MY4N	4
17	AU661044 RLY OMRON 24VDC 4 POLES	1
18	AU635446 END PLATE KLIPPON AP 3592 6 *	1
19	642M279 CIRCUIT BREAKER	1
20	H0095276 SHUNT TRIP	1
21	H0563803 CIRCUIT BREAKER 3P 20A	2
22	642E20014 AUXILIARY CONTACT	1
	AU862211 SEAL RUBBER	2.5m

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	10.0 kW	34,120 BTU
Heating Capacity	12.0 kW	40,944 BTU
Fan Speeds	2	2
Air Flow	610 l/s	1,293 CFM
Fresh Air	22 l/s	47 CFM
Power Supply	460/575 VAC 3 Phase, 50/60Hz	460/575 VAC 3 Phase, 50/60Hz
Current Draw	32 A	32 A
Refrigerant	R134a	R134a
Minimum Ambient Temperature	-10°C	14°F
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	457.0 Kg	1005.4 lbs
Technical Manual Reference	HD0031057	HD0031057
Dimension (L X W X H)	1497 mm X 950 mm X 979 mm	58.9 in X 37.4 in X 38.5 in

COMPANION ITEMS

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

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.



DOZER



DRAGLINE & SHOVEL



DRILL



EXCAVATOR



FORKLIFT & TELEHANDLERS



OVERHEAD CRANE



RAIL SPECIAL VEHICLE



TRUCK



UNDERGROUND EQUIPMENT



WHEEL LOADER



MPR25MX1

EVAPORATOR

ROOFTOP PACKAGED HVAC UNIT

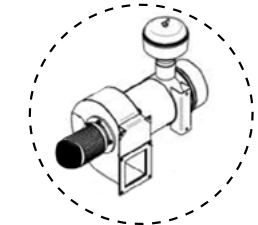
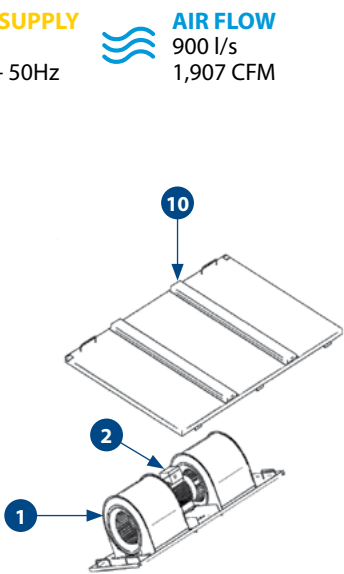
MPR25MX1
25kW 415VAC with Heating (9kW)

**COOLING**
25.0 kW
85,300 BTU

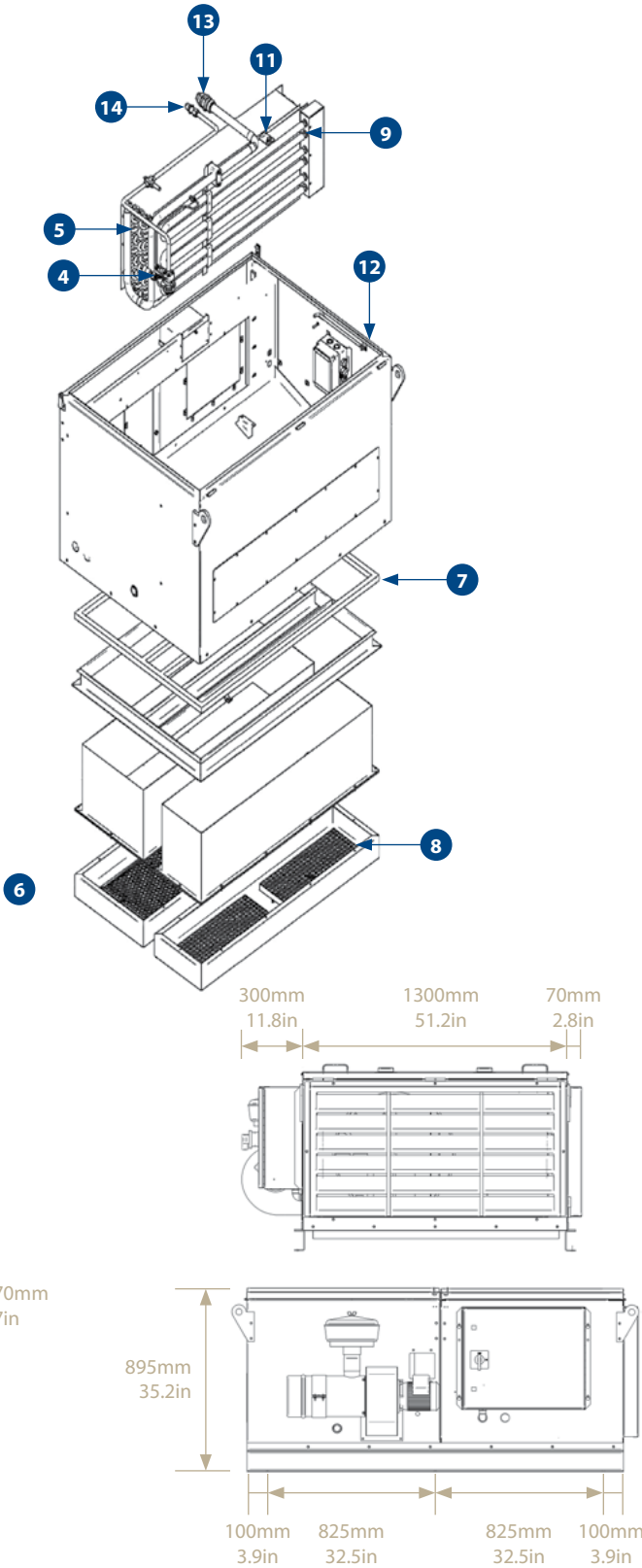
**HEATING (OPTION)**
9.0 kW
30,708 BTU

**POWER SUPPLY**
415 VAC
3 phase - 50Hz

**AIR FLOW**
900 l/s
1,907 CFM



see **FVV100MR1** (pg 12) 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
3	AU668134 COIL SOLENOID 24VAC	1
	AU522127 SOLENOID VALVE 200RB 5/8" SOLDER	1
	AU631451 PLUG PG9 SOL COIL 240VAC 10A	1
4	AU521512 TX VALVE 5T ANGLE 1/2" IN 5/8" OUT R134A	1
	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 H0235090	ROOF SEAL Previously AU08379	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

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	25.0 kW	85,300 BTU
Heating Capacity	9.0 kW	30,708 BTU
Fan Speeds	2	2
Air Flow	900 l/s	1,907 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)	1850 mm X 1670 mm X 895 mm	72.8 in X 65.7 in X 35.2 in

MAINTENANCE

ANNUAL / 5,400 HOURS

AS503103S	RETURN AIR FILTER 477MM x 312MM M15
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3 YEARS / 16,200 HOURS

AU521511	TX THERMOSTAT ELEM 5T R134A
AU521515	TX ORIFICE 5T R134A #04
AU862211	SEAL RUBBER

COMPANION ITEMS

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

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.



DOZER



DRAGLINE & SHOVEL



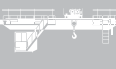
DRILL



EXCAVATOR



FORKLIFT & TELEHANDLERS



OVERHEAD CRANE



RAIL SPECIAL VEHICLE



TRUCK



UNDERGROUND EQUIPMENT



WHEEL LOADER



MPR25MX1

CONDENSER

ROOFTOP PACKAGED HVAC UNIT

MPR25MX1

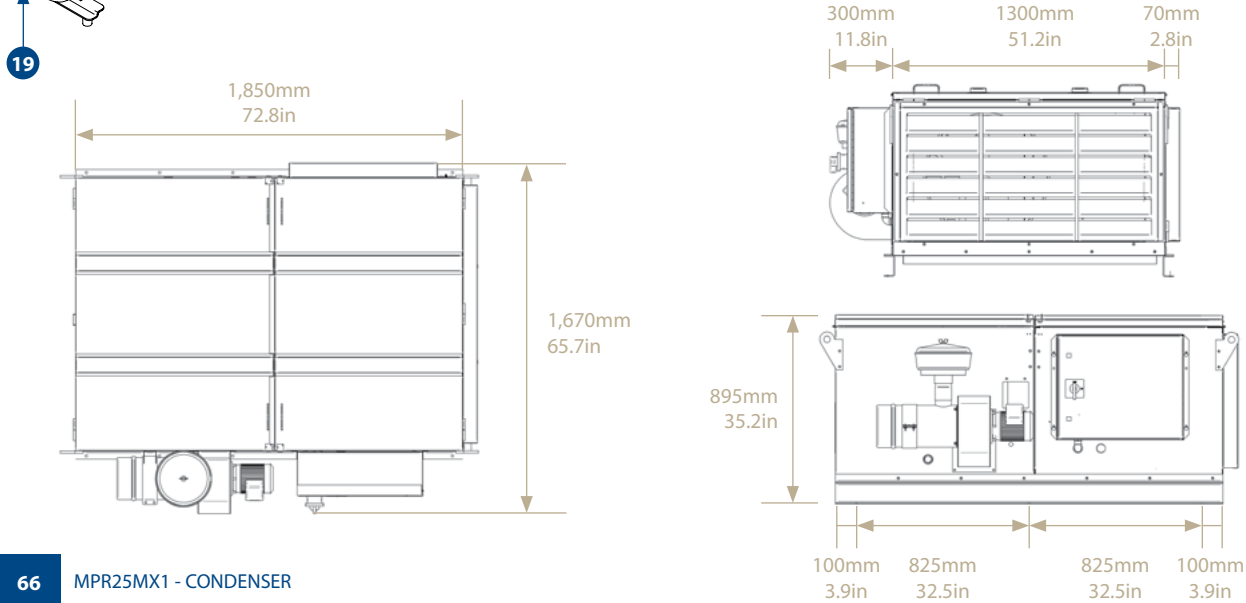
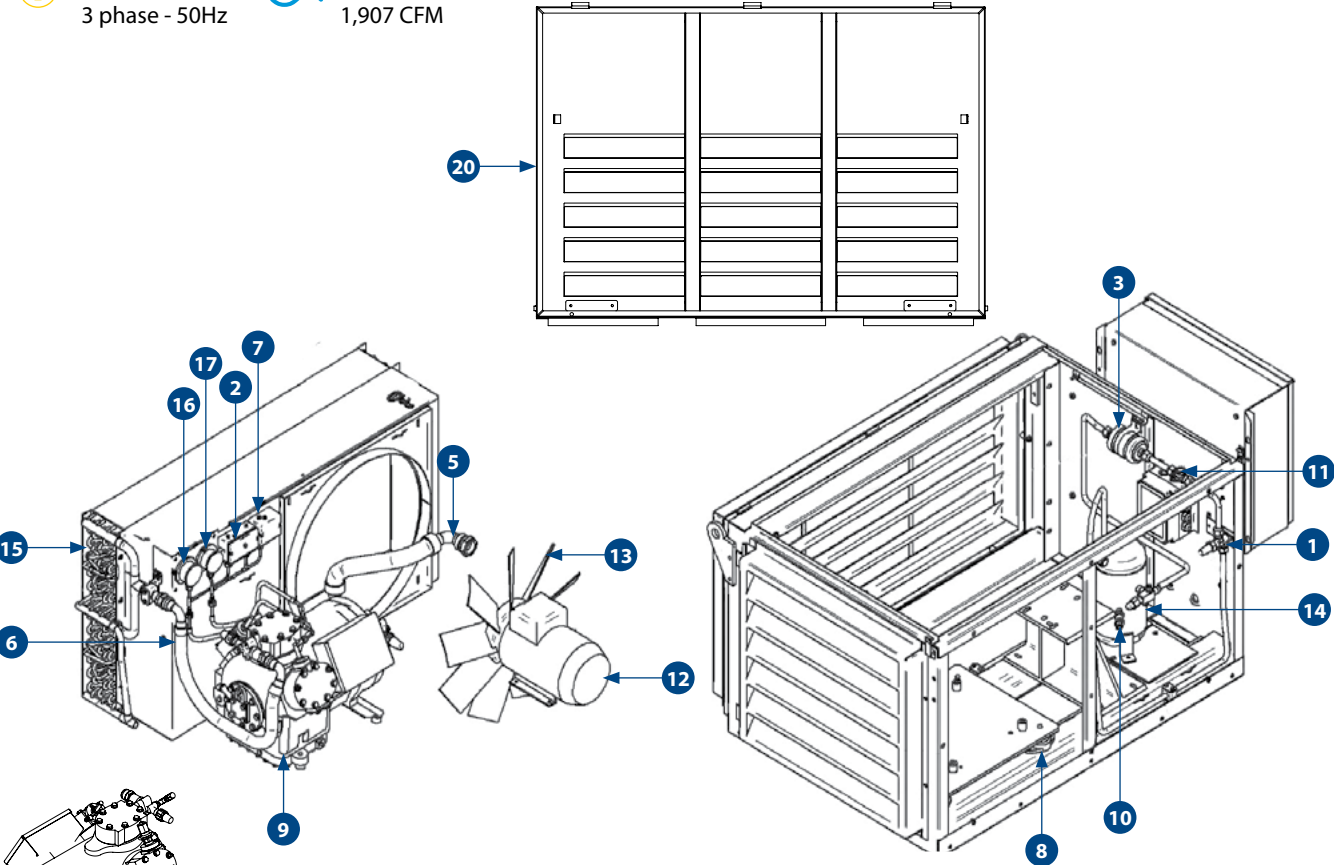
25kW 415VAC with Heating (9kW)

**COOLING**
25.0 kW
85,300 BTU

**HEATING (OPTION)**
9.0 kW
30,708 BTU

**POWER SUPPLY**
415 VAC
3 phase - 50Hz

**AIR FLOW**
900 l/s
1,907 CFM



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 330 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
20	AS231075 LID ASSEMBLY LOUVRE	1
21	AU200045 VALVE UNLOADER PRESSURE	1
22	AU200079 CRANKCASE HEATER 415V 75W	1
23	AU200061 VALVE UNLOADER ELECTRICAL	1
	AU517507 VALVE ACCESS 1/4"	1
	AU519074 ADAPTOR 134A 1/4" HIGH SIDE RED	1
	AU519075 ADAPTOR 134A 1/4" LOW SIDE BLUE	1
	AU542026 REFRIGERANT OIL	4

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	25.0 kW	85,300 BTU
Heating Capacity	9.0 kW	30,708 BTU
Fan Speeds	2	2
Air Flow	900 l/s	1,907 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)	1850 mm X 1670 mm X 895 mm	72.8 in X 65.7 in X 35.2 in

MAINTENANCE

ANNUAL / 5,400 HOURS

AU531358	DRIER 5/8" MF
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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.



DOZER



DRAGLINE & SHOVEL



DRILL



EXCAVATOR



FORKLIFT & TELEHANDLERS



OVERHEAD CRANE



RAIL SPECIAL VEHICLE



TRUCK



UNDERGROUND EQUIPMENT



WHEEL LOADER



MPR25MX1

ELECTRICAL

ROOFTOP PACKAGED HVAC UNIT

MPR25MX1

25kW 415VAC with Heating (9kW)





COOLING
25.0 kW
85,300 BTU



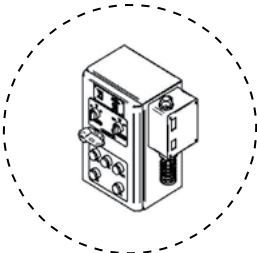
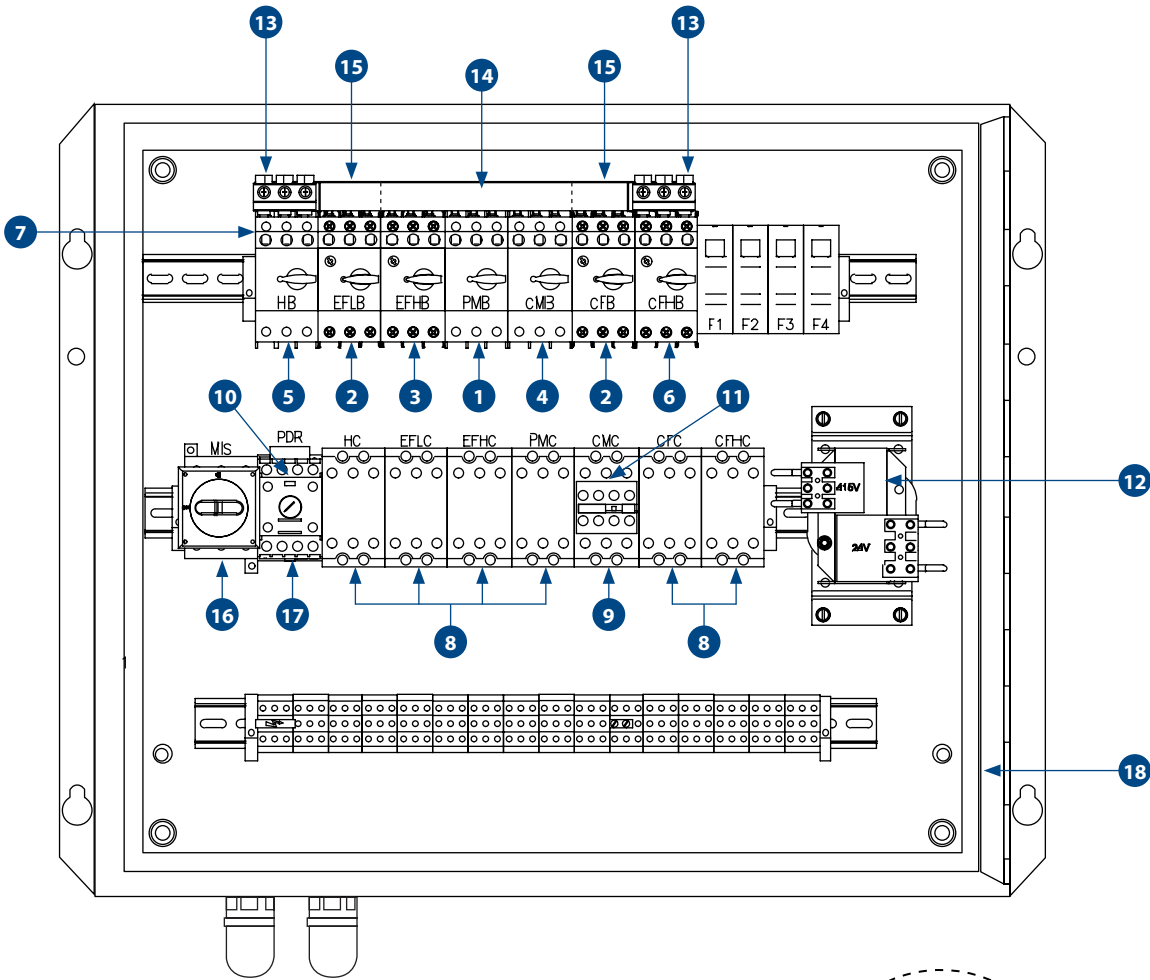
HEATING (OPTION)
9.0 kW
30,708 BTU



POWER SUPPLY
415 VAC
3 phase - 50Hz



AIR FLOW
900 l/s
1,907 CFM



see MEW11 (pg 98) for pilot control box 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 2.8-4.0A 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

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	25.0 kW	85,300 BTU
Heating Capacity	9.0 kW	30,708 BTU
Fan Speeds	2	2
Air Flow	900 l/s	1,907 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)	1850 mm X 1670 mm X 895 mm	72.8 in X 65.7 in X 35.2 in

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.



MPV5MX2

ROOFTOP PACKAGED HVAC UNIT

MPV5MX2
5kW 415VAC with Heating (3kW) without pressuriser

**COOLING**
5.0 kW
17,060 BTU

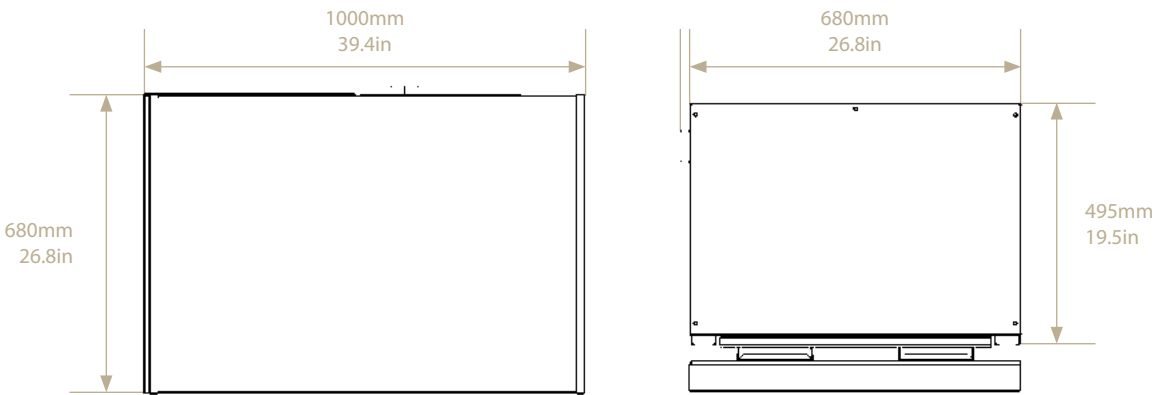
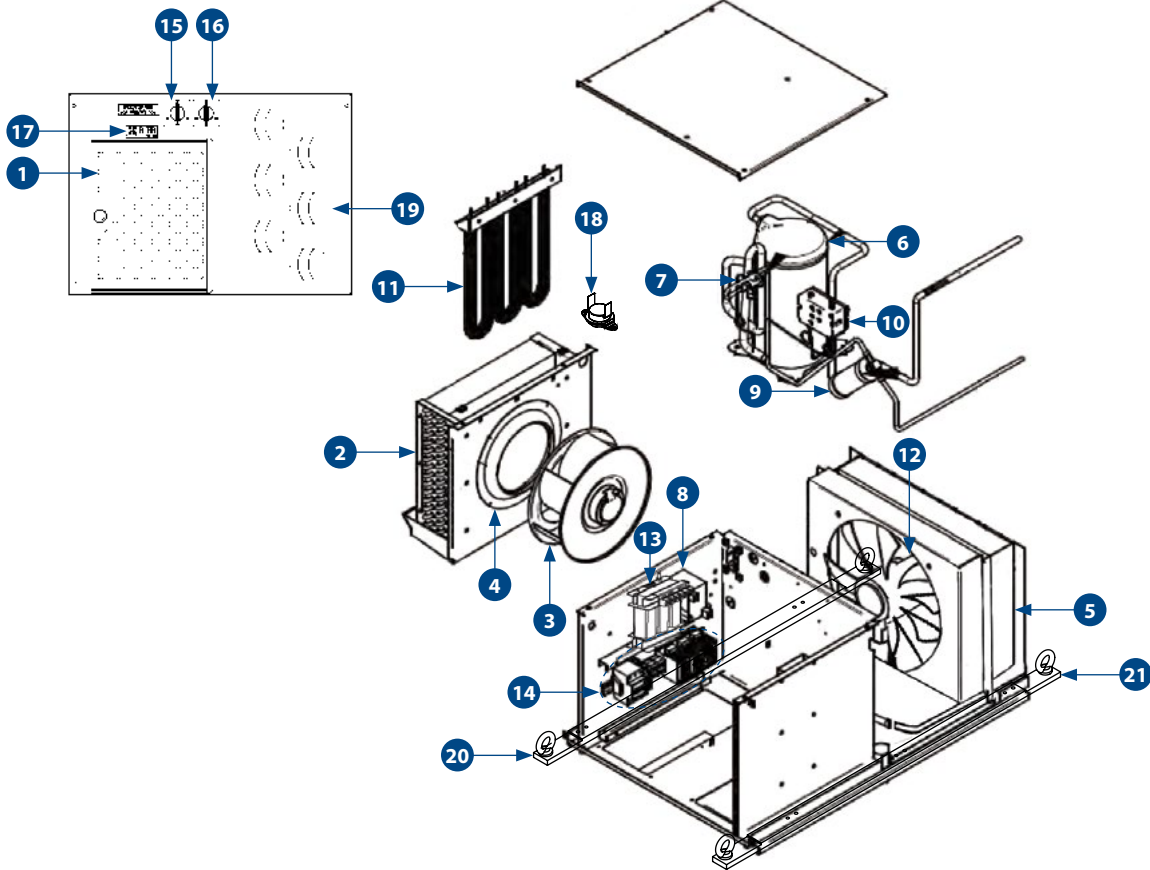
**HEATING (OPTION)**
3.0 kW
10,236 BTU

**POWER SUPPLY**
415 VAC
3 phase - 50Hz

**AIR FLOW**
190 l/s
403 CFM



MPV5MX2 in wall mounted configuration fitted with MKWP1 (case sold separately)



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1	AU4601005 FILTER	1
2	AU120492 EVAPORATOR COIL 380MM X 381MM X 88MM 4 RW MPV5	1
3	H0661695 CENTRIFUGAL FAN 317D x 160W 415V 50Hz Previously AU411041	1
4	AU410953 INLET RING Ø188 ID X Ø280 OD Previously AU410956	1
5	AU110397 CONDENSER COIL 540X381X79 5RW MPV5	1
6	AU230806 COMPRESSOR 400VAC 50HZ 460VAC 60HZ	1
7	AU521509 TX VALVE 2T 3/8"IN 1/2"OUT 1/4EQ R134A	1
AU521504	TX ORIFICE 2T R22 #04	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
12	AU4201004 FAN AXIAL 400MM 400VAC	1
AU421020	FAN GRILLE SUIT 400MM	1
13	AU666090 TRANSFORMER 415-240V	1
AU651032	CONTACTOR 9A 3 POLE 110VAC	2
AU6511002	CONTACTOR 9A 110V	3
AU6511001	AUX CONTACT	3
AU641093	CIRCUIT BREAKER 16A 3 POLE	1
AU641096	CIRCUIT BREAKER 2A 1 POLE	1
AU6531003	MECHANICAL INTERLOCK	1
15	AU6631001 ROTARY SWITCH MODE	1
16	AU663004 ROTARY SWITCH FAN	1
17	AU681960 THERMOSTAT DIGITAL 24V	1
AU681961	SENSOR PROPE	1
18	AU681020 THERMOSTAT T5 50°C SPST N/C AUTO	1
19	AU821300 DIFFUSER ROUND	6
20	H0683214 RH LIFTING BAR ASSEMBLY	1
21	H0683308 LH LIFTING BAR ASSEMBL	1
UE016	THERMOSTAT DEICE STUD	1
AU845248	ANTI VIBRATION MOUNT	4

CASE OPTIONS (SOLD SEPARATELY)

MKRP3	Outer Case Roof MTD	1
MKWP1	Outer Case Wall MTD	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	5.0 kW	17,060 BTU
Heating Capacity	3.0 kW	10,236 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-50Hz	415 VAC 3Phase-50Hz
Current Draw	10 A	10 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Packaged Weight (nominal)	150.0 Kg	330.0 lbs
Technical Manual Reference	SM347-5341	SM347-5341
Dimension (L X W X H)	1000 mm X 680 mm X 895 mm	39.4 in X 26.8 in X 19.5 in

MAINTENANCE

MONTHLY / 450 HOURS

AU4601005	FILTER
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ANNUAL / 5,400 HOURS

AU531415	RECEIVER DRIER 3/8" MF 193MM HIGH
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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

COMPANION ITEMS

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

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

REFRIGERATION / GENERAL ASSEMBLY

WALL MOUNT HVAC PACKAGED UNIT

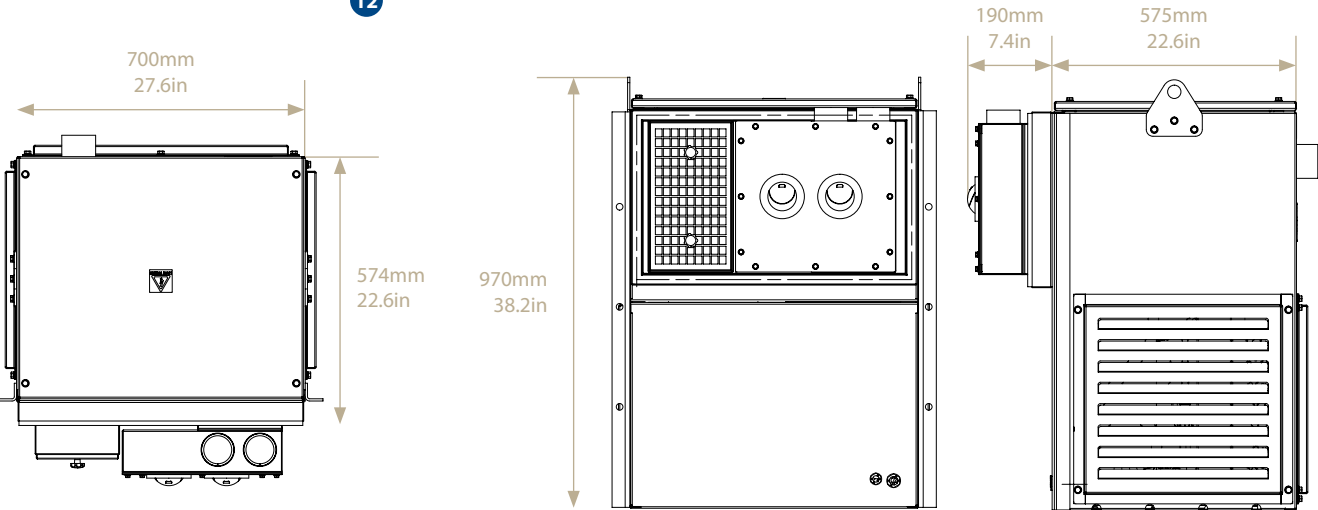
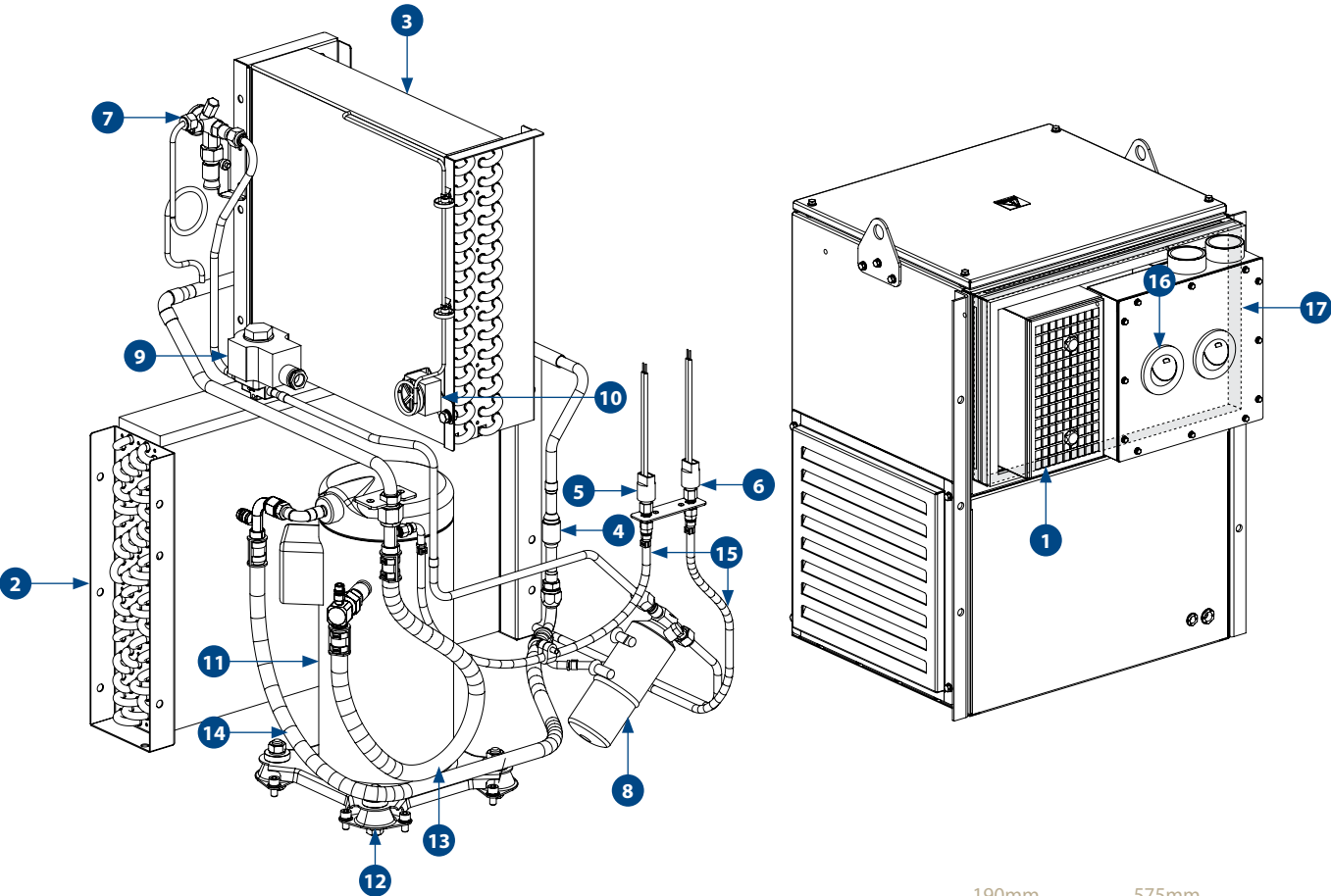
MPW5MX1
5kW 415VAC with Heating (3kW) with Pressuriser

**COOLING**
5.0 kW
17,060 BTU

**HEATING**
3.0 kW
10,236 BTU

**POWER SUPPLY**
415 VAC
3 phase - 50Hz

**AIR FLOW**
200 l/s
424 CFM



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 H0028308	FILTER MEDIA	1
2 AU110397	CONDENSER COIL 540MM X 381MM X 79MM 5RW MPV5	1
3 AU120492	EVAPORATOR COIL 380MM X 381MM X 88MM 4 RW MPV5	1
4 AU517621	VALVE CHECK 1/2SL STRAIGHT	1
5 AU523365	LOW PRESSURE SWITCH	1
6 AU523655	HIGH PRESSURE SWITCH	1
7 AU521509	TX VALVE 2T 3/8" IN 1/2" OUT 1/4" EQ R134A	1
AU521504	TX ORIFICE 2T R22 #04	1
8 AU531415	RECEIVER DRIER 3/8" MF 193MM HIGH	1
9 AU522021	SOLENOID VALVE	1
AU668140	COIL SOLENOID 24VDC TYPE 1	1
10 UE016	THERMOSTAT DEICE STUD	1
11 H0304197	COMPRESSOR ASSEMBLY	1
12 AU845248	ANTI VIBRATION MOUNT	4
13 H0227316	SUCTION HOSE ASSEMBLY	1
14 H0227314	DISCHARGE HOSE ASSEMBLY	1
15 HO227302	PRESSURE SWITCH HOSE ASSEMBLY	2
16 AU821301	DIFFUSER ROUND 75MM PLASTIC	2
17 H0032389	SEAL CABIN - SA & RA INTERFACE MPW5MX1	1
AU862211	SEAL RUBBER	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	5.0 kW	17,060 BTU
Heating Capacity	3.0 kW	10,236 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-50Hz	415 VAC 3Phase-50Hz
Current Draw	10 A	10 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)	700 mm X 765 mm X 970 mm	27.6 in X 30.1 in X 38.2 in

MAINTENANCE

MONTHLY / 450 HOURS

H0028308	FILTER MEDIA
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ANNUAL / 5,400 HOURS

AU531415	RECEIVER DRIER 3/8" MF 193mm HIGH
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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
HO227302	PRESSURE SWITCH HOSE ASSEMBLY

COMPANION ITEMS

PART NO.	DESCRIPTION
KNHV90029	Installation Kits
PVV50M2	Pressuriser
FVV40	Pressuriser
AU679519	Controller
AU6811015	Temperature Sensor



MPW5MX1

ELECTRICAL

WALL MOUNT HVAC PACKAGED UNIT

MPW5MX1
5kW 415VAC with Heating (3kW) with Pressuriser

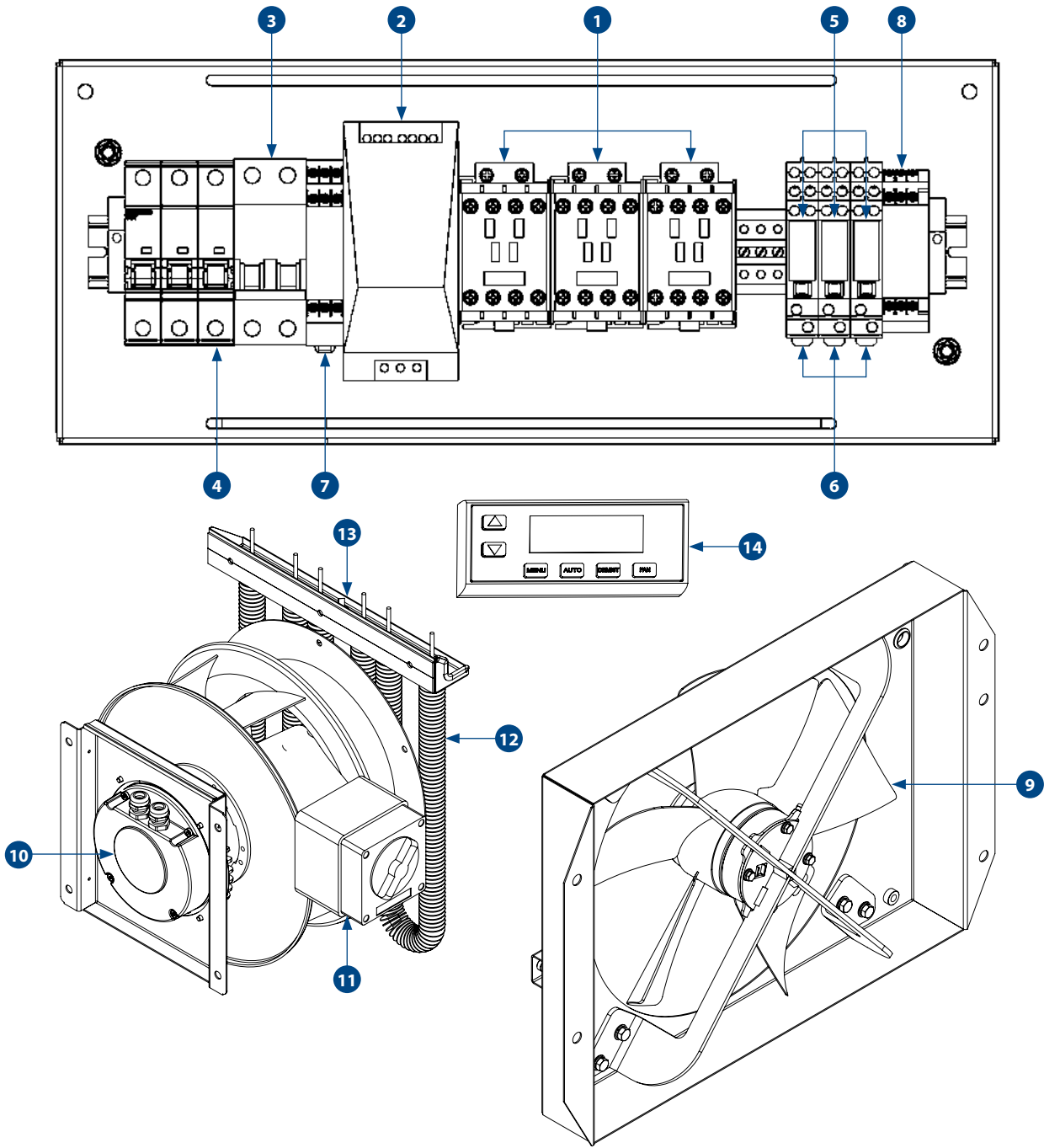


**COOLING**
5.0 kW
17,060 BTU

**HEATING**
3.0 kW
10,236 BTU

**POWER SUPPLY**
415 VAC
3 phase - 50Hz

**AIR FLOW**
200 l/s
424 CFM



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	H0343830 RELAY BASE 8 PIN Previously AU661041	3
7	AU661043 RELAY POWER FAILURE 3 PHASE	1
8	AU672500 TIMER	1
9	AU4201004 FAN AXIAL 400MM	1
10	H0023291 BLOWER IMPELLER 307D x 222W 240VAC	1
11	H0023701 SWITCH 56SW420-GYCLIPSAL 4P 20A	1
12	AU691104 HEATER U SHAPE 1.0KW 240V 365mm BRS FIN	3
13	AU681020 THERMOSTAT T5 50°C SPST N/C AUTO	1
14	AU679519 CONTROLLER ELECTRICAL 24VDC DISPLAY	1
	AU6811015 THERMOSTAT SENSOR NTC -50 TO 105°C	1

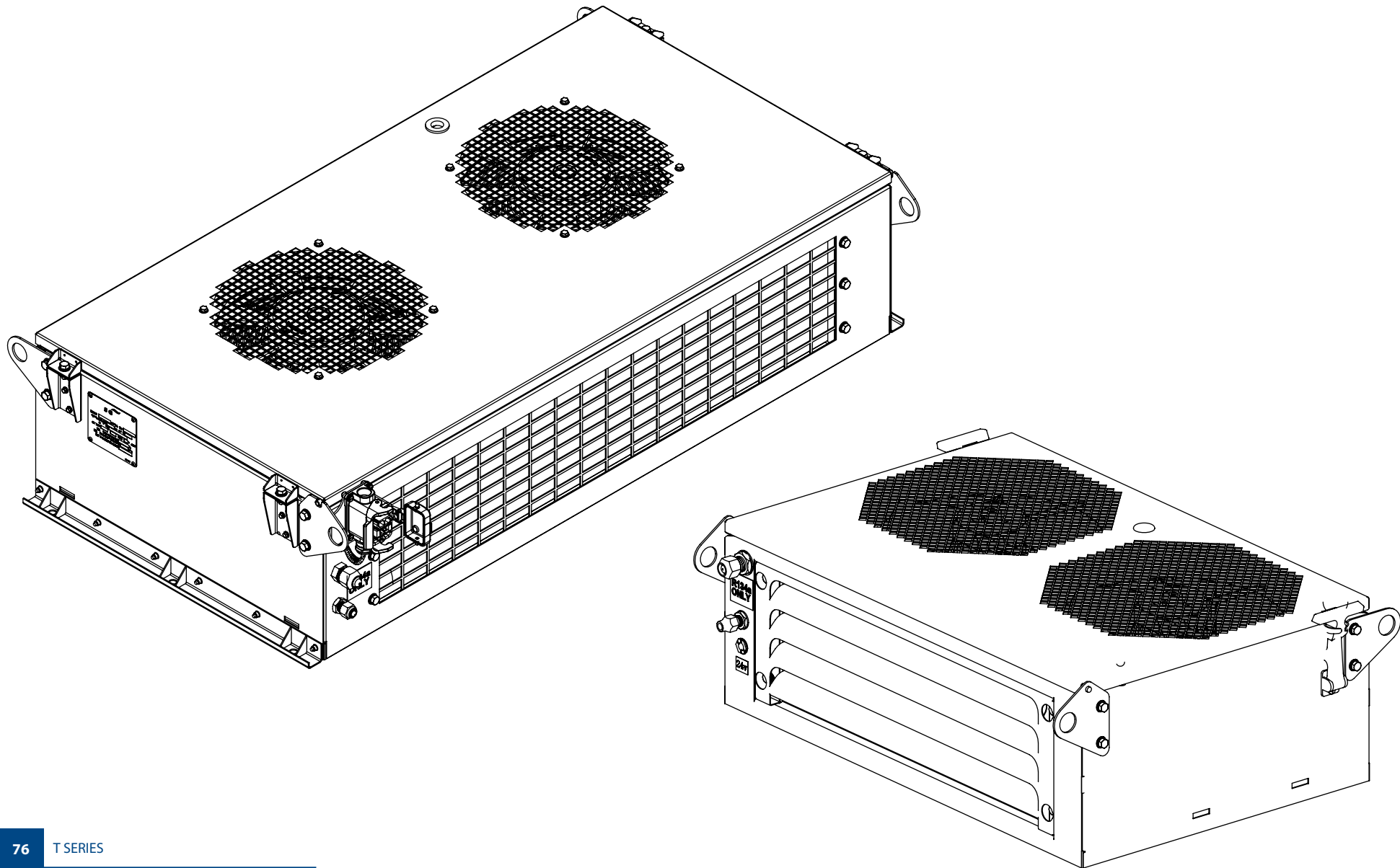
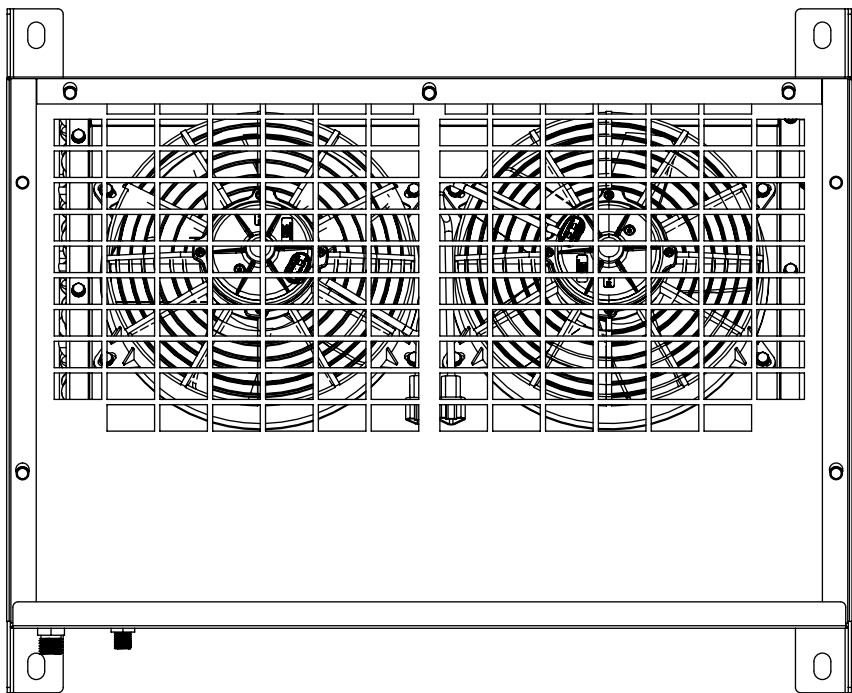
SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	5.0 kW	17,060 BTU
Heating Capacity	3.0 kW	10,236 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-50Hz	415 VAC 3Phase-50Hz
Current Draw	10 A	10 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)	700 mm X 765 mm X 970 mm	27.6 in X 30.1 in X 38.2 in

COMPANION ITEMS

PART NO.	DESCRIPTION
KNHV90029	Installation Kits

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.



T SERIES

The SIGMA T-Series range of air conditioning units is specifically engineered to provide climate control for cabins in heavy-duty, off-road mining equipment.

Designed to endure the most demanding conditions, these units can withstand high levels of vibration, shock loads, and extreme ambient temperatures. Built to Mining Standards, they are crafted for ease of service and incorporate only the highest quality components.

MODEL	PAGE
TCF6BX2 (H0095174)	78
TCF7BX2	80
TCF8BX6 (H0235424)	82
TCW5	84 - 85
TCW5BX1	84
TCW5BX2	84
H0269191	86
TFC6BX2 (H0094278)	88
TFC8	90 - 91
TFC8BX5 (H0406943)	90
TFC8BX6 (H0407003)	90
TFF5	92 - 93
TFF5BX1	92
TFF5BX2	92
TFR7BX2	94



DOZER



DRAGLINE & SHOVEL



DRILL



EXCAVATOR



FORKLIFT & TELEHANDLERS



OVERHEAD CRANE



RAIL SPECIAL VEHICLE



TRUCK



UNDERGROUND EQUIPMENT



WHEEL LOADER



TCF6BX2

WALL MOUNT CONDENSER

H0095174

Wall Mount Condenser 6kW 24V



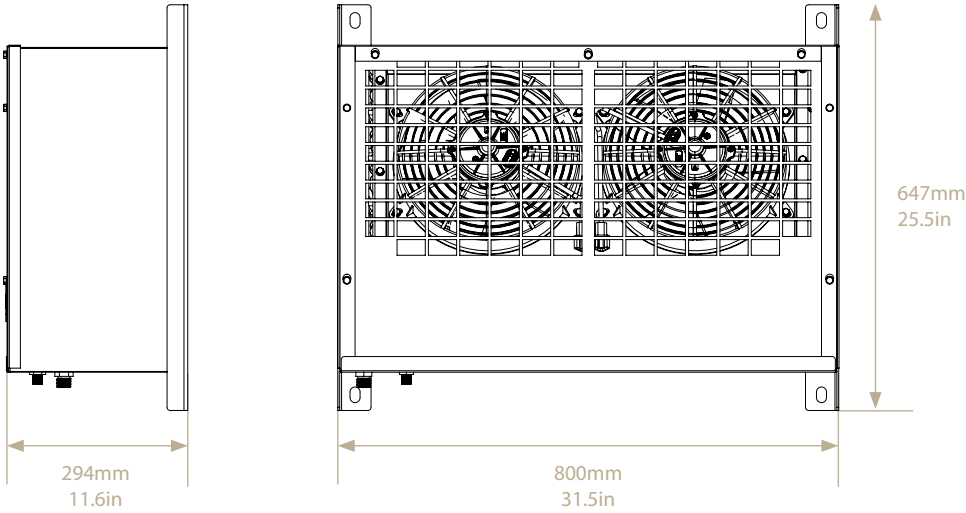
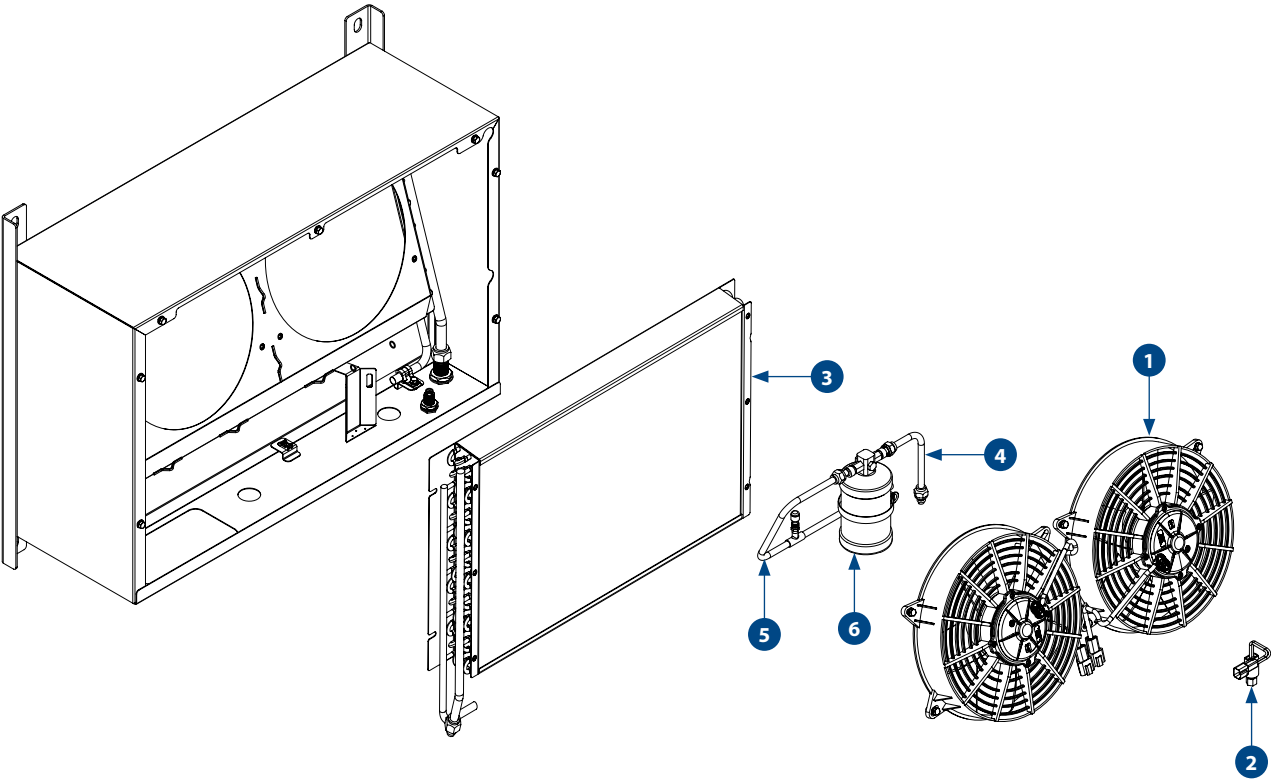
COOLING
6.0 kW
20,472 BTU



AIR FLOW
650 l/s
1,377 CFM



POWER SUPPLY
24 VDC



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 H0144118	CONDENSER FAN ASSEMBLY	2
2 H0148597	HIGH PRESSURE SWITCH ASSEMBLY	1
3 H0095176	CONDENSER COIL 650MM X 381MM X 66MM 4R	1
4 H0095336	LIQUID LINE ASSEMBLY - RECEIVER DRIER OUT	1
5 H0095339	LIQUID LINE ASSEMBLY - RECEIVER DRIER IN	1
6 AU531422	RECEIVER DRIER	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	6.0 kW	20,472 BTU
Fan Speeds	1	1
Air Flow	650 l/s	1,377 CFM
Power Supply	24 VDC	24 VDC
Current Draw	11A	11A
Refrigerant	R134a	R134a
Minimum Ambient Temp	-10°C	14°F
Maximum Ambient Temp	54°C	129.2°F
Weight (nominal)	35.0 Kg	77.0 lbs
Dimension (L X W X H)	800 mm X 294 mm X 647 mm	31.5 in X 11.6 in X 25.5 in

MAINTENANCE

ANNUAL / 4,800 HOURS

AU531422	RECEIVER DRIER
H0144118	CONDENSER FAN

3 YEARS / 14,400 HOURS

H0148597	HIGH PRESSURE SWITCH ASSEMBLY
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COMPANION ITEMS

PART NO.	DESCRIPTION
TFC6BX2	Rooftop Evaporator (6kW)
FVV40	Pressuriser
H0497644	Hydraulic Driven Compressor 170 ext (Vertical)

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.



DOZER



DRAGLINE & SHOVEL



DRILL



EXCAVATOR



FORKLIFT & TELEHANDLERS



OVERHEAD CRANE



RAIL SPECIAL VEHICLE



TRUCK



UNDERGROUND EQUIPMENT



WHEEL LOADER



TCF7BX2

ROOFTOP CONDENSER

TCF7BX2

7kW 24V Condenser with O-Ring Fittings



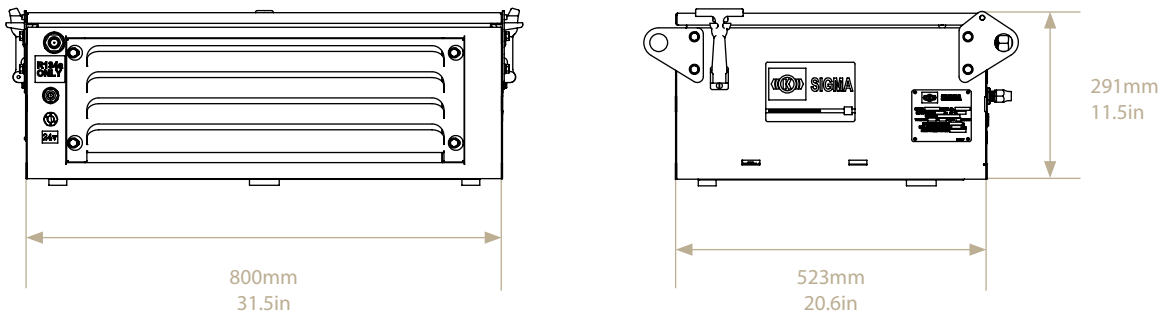
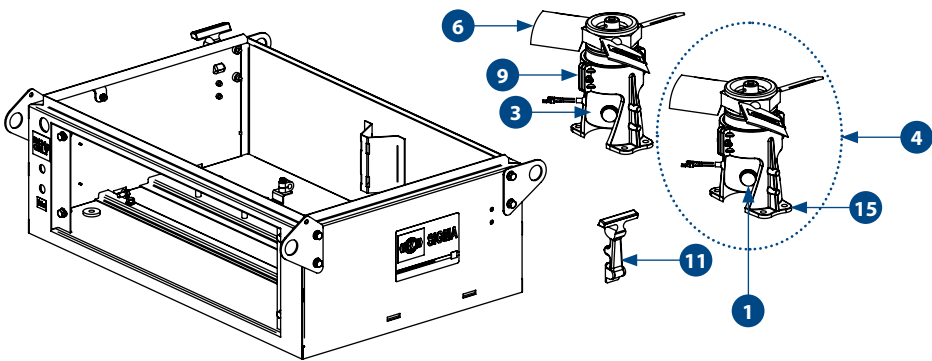
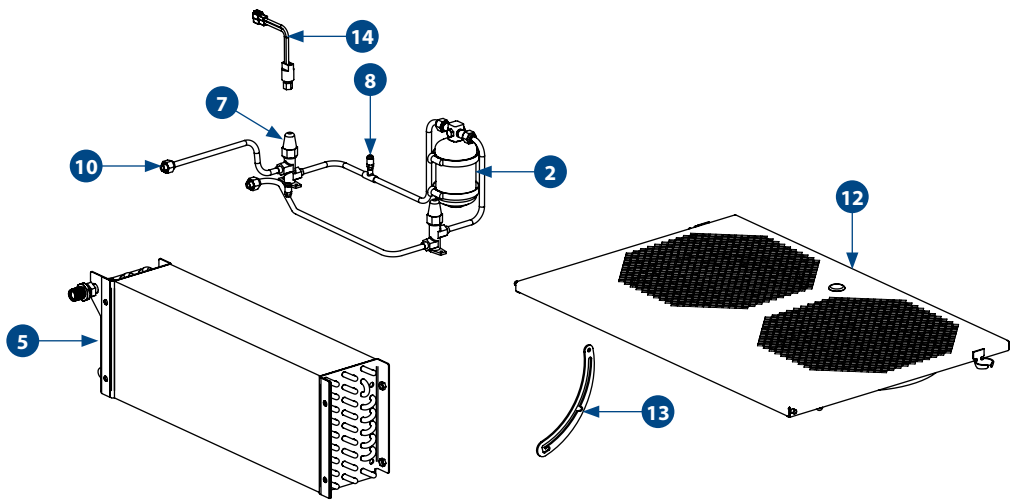
COOLING
7.0 kW
23,884 BTU



AIR FLOW
650 l/s
1,377 CFM

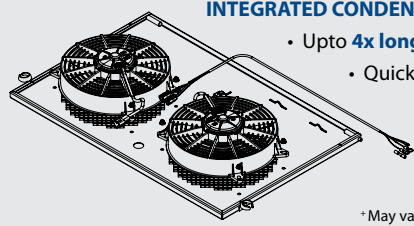


POWER SUPPLY
24 VDC



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 H0393309	MOTOR BRUSH 24VDC Previously AU320621	4
2 AU531411	RECEIVER DRIER 3/8" 24UNF 165MM HIGH	1
3 H0384821	24V DC SINGLE SHAFT BRUSHED MOTOR Previously UE026	2
4 AS5000170	CONDENSER FAN ASSEMBLY 24V	2
5 AU110029	CONDENSER COIL 6R (TCF7BX2)	1
6 AU420229	FAN AXIAL 300MM 3 BLADES LB	2
7 AU517254	PCAV 3/8" SOLDER	2
8 AU517505	VALVE ACCESS 1/4" 1/8" OD SOLDER	1
9 UC028	CONDENSER MOTOR MOUNT	4
10 AU512C065	BULKHEAD FITTING O-RING 3/8" (TCF7BX2)	1
11 AU851590	TOGGLE CLAMP RUBBER (TCF7BX2)	2
12 AS5000125	CONDENSER LID W/ASSEMBLY	1
13 S5000149	LID PROP	1
14 H0472020	HIGH PRESSURE SWITCH WITH PLUG	1
AS515203	LIQUID LINE VALVE TO DRIER	1
AS515204	LIQUID LINE DRIER TO RECEIVER	1
AS515205	LIQUID LINE RECEIVER TO VALVE	1
AU935432	FLAT NEOPRENE EXTRUSION	2



INTEGRATED CONDENSER FANS UPGRADE H0393310

- Upto **4x longer life** (*20,000 hrs)
- Quick and easy upgrade with our new integrated lid assemble.

* May vary according to usage and external conditions

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	7.0 kW	23,884 BTU
Fan Speeds	1	1
Air Flow	650 l/s	1,377 CFM
Power Supply	24 VDC	24 VDC
Current Draw	20 A	20 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	35.0 Kg	77.0 lbs
Dimension (L X W X H)	800 mm X523 mm X 291mm	31.5 in X 20.6 in X 11.5 in

MAINTENANCE

6 MONTHS / 2,400 HOURS

H0393309	MOTOR BRUSH 24VDC
ANNUAL / 4,800 HOURS	
AU531411	RECEIVER DRIER 3/8" 24UNF165MM HIGH
H0384821	24V DC SINGLE SHAFT BRUSHED MOTOR

3 YEARS / 14,400 HOURS

H0472020	HIGH PRESSURE SWITCH WITH PLUG
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COMPANION ITEMS

PART NO.	DESCRIPTION
H0393310	Integrated Condenser Fans Assembly
TFR7BX2	Rooftop Evaporator (7kW)
FVV40	Pressuriser
H0404765	Hydraulic Compressor 170 (vertical)
H0404764	Hydraulic Compressor 170 (Horizontal)
AU270315E	Compressor UP170 2A 24V HMO 132 ESTE
AU270317E	Compressor UP170 1B 24V HMO 135 ESTE

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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OVERHEAD CRANE



RAIL SPECIAL VEHICLE



TRUCK



UNDERGROUND EQUIPMENT



WHEEL LOADER



TCF8BX6

FLOOR MOUNTED CONDENSER

H0235424

8kW 24V Removable Lid Condenser with Brushless fan



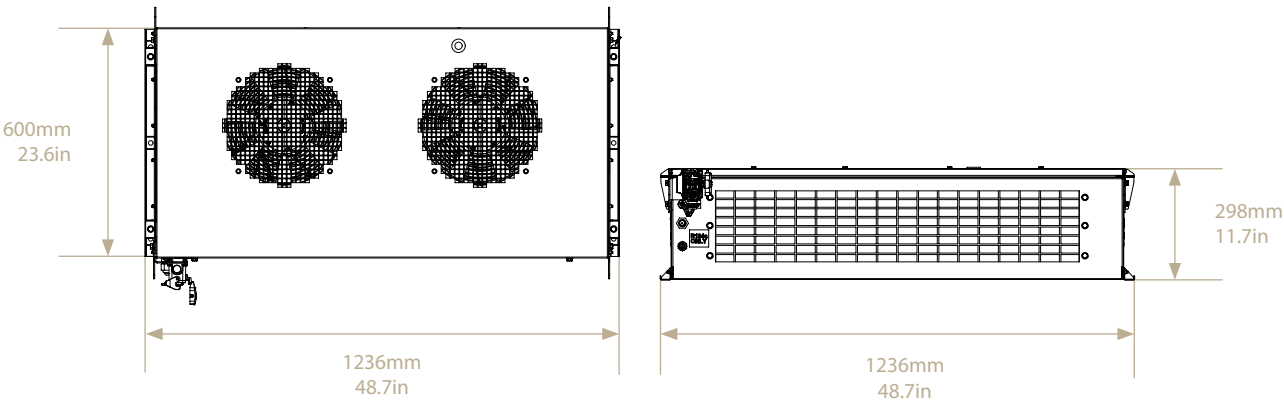
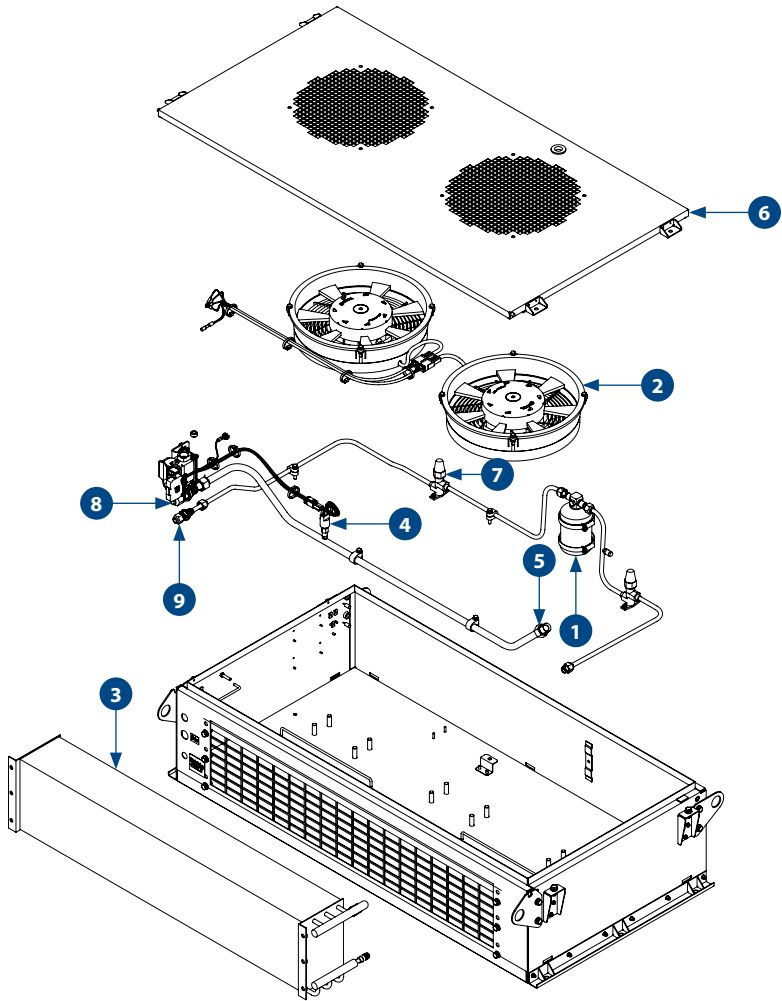
COOLING
8.0 kW
27,296 BTU



AIR FLOW
980 l/s
2,077 CFM



POWER SUPPLY
24 VDC



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU531411	RECEIVER DRIER 3/8" 24UNF 165MM HIGH	1
2 H0192021	AXIAL BRUSHLESS FAN 24VDC DIA 305MM	2
3 AU110009	CONDENSER COIL 946X203X132MM 6RW	1
4 H0148597	HIGH PRESSURE SWITCH	1
5 H0234526	BULKHEAD HOUSING, SIDE ENTRY	1
6 H0192013	CONDENSER COVER ASSEMBLY	1
7 AU517254	PCAV 3/8" SOLDER	2
8 UR009	BULKHEAD FITTING 3/8" MF,	1
9 UR011	BULKHEAD FITTING 5/8" MF #10	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	8.0 kW	27,296 BTU
Fan Speeds	1	1
Air Flow	980 l/s	2,077 CFM
Power Supply	24 VDC	24 VDC
Current Draw	27A	27A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	50.0 Kg	110.0 lbs
Technical Manual Reference	1236mm X 600mm X 294 mm	48.7in X 23.6in X 11.6in
Dimension (L X W X H)	1236 mm X 600 mm X 298 mm	48.7 in X 23.6 in X 11.7 in

MAINTENANCE

ANNUAL / 4,800 HOURS

AU531411	RECEIVER DRIER 3/8" 24UNF165MM HIGH
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3 YEARS / 14,400 HOURS

H0148597	HIGH PRESSURE SWITCH 1/4" FF 2415kPa
H0193262	AXIAL BRUSHLESS FAN 24VDC DIA 305MM

COMPANION ITEMS

PART NO.	DESCRIPTION
H0406943	8kW Evaporator Unit 24VDC (TFC8BX5)
H0407003	8kW Evaporator Unit 24VDC C/W 415 Heating (TFC8BX6)
FVV40	Pressuriser
H0404767	Hydraulic Compressor 200 VERTICAL
H0404766	Hydraulic Compressor 200 HORIZONTAL
AU260203	Compressor 3Ph 60Hz
H0415158	Mating Plug Kit

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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OVERHEAD CRANE



RAIL SPECIAL VEHICLE



TRUCK



UNDERGROUND EQUIPMENT



WHEEL LOADER



TCW5

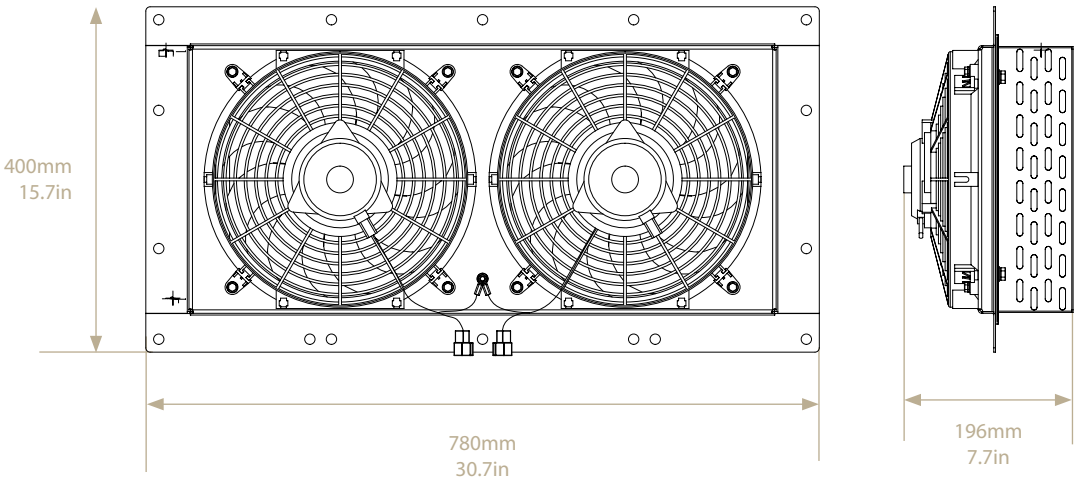
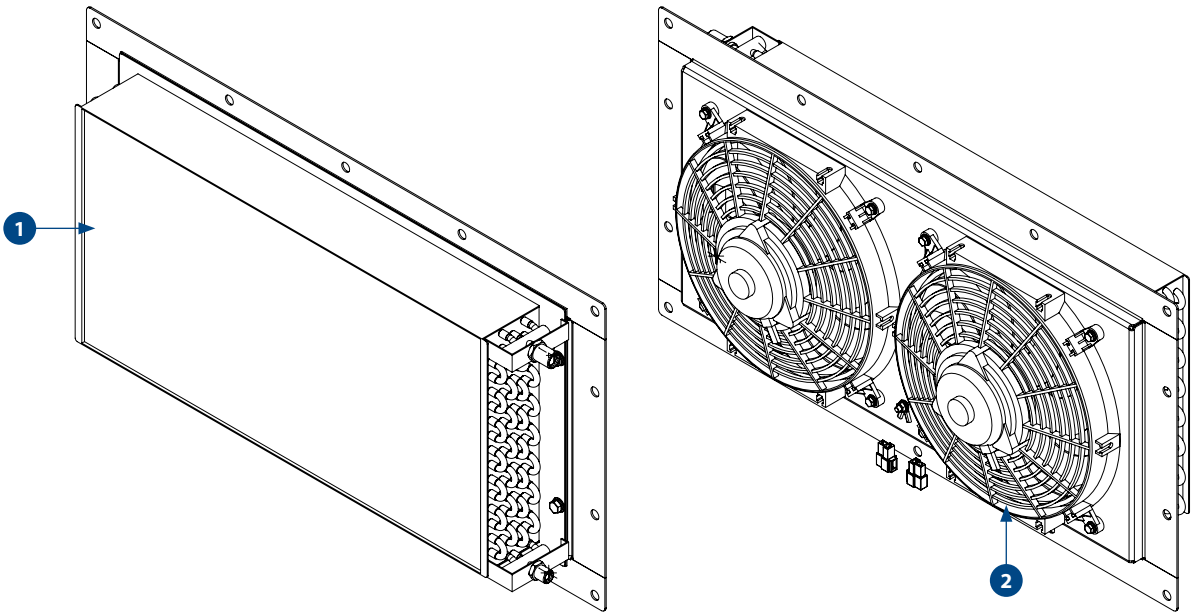
WALL MOUNTED CONDENSER

- TCW5BX1
5kW 24V Condenser Captive 'O'Ring
- TCW5BX2
5kW 24V Condenser Standard 'O'Ring

**COOLING**
4.0 kW
13,648 BTU

**AIR FLOW**
500 l/s
1,059 CFM

**POWER SUPPLY**
24VDC



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 H0039196 H0095147	CONDENSER COIL 600MM X 305MM X 66MM (BX1) CONDENSER COIL 600MM X 305MM X 66MM (BX2)	1 1
2 H0051777	FAN AXIAL ASSEMBLY 280MM 24VDC	2

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	4.0 kW	13,648 BTU
Fan Speeds	1	1
Air Flow	500 l/s	1,059 CFM
Power Supply	24 VDC	24 VDC
Current Draw	8A	8A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	19.0 Kg	41.9 lbs
Dimension (L X W X H)	780mm X 400mm X 196mm	30.7in X 15.7in X 7.7in

MAINTENANCE

ANNUAL / 4,800 HOURS

H0051777	FAN AXIAL ASSEMBLY 280MM 24VDC
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COMPANION ITEMS

PART NO.	DESCRIPTION
TFF5BX1	5kW Evaporator Floor Mounted 12V
TFF5BX2	5kW Evaporator Floor Mounted 24V
FVV40	Pressuriser
H0404763	Hydraulic Driven Compressor 150 (Vertical)
H0428289	Electric Compressor 24 V
AU270312	Engine Driven Compressor
AU270311	Engine Driven Compressor
H0081855	Receiver Drier
AU531422	Receiver Drier

Please contact SIGMA for more information including details on an overhaul scope and interval.
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HPR6BX1

ROOFTOP HVAC UNIT

H0269191

6kW 24V HVAC Package with 11kW Heating

**COOLING**
6.0 kW
20,472 BTU**HEATING (OPTION)**
11.0 kW
37,533 BTU**POWER SUPPLY**
24 VDC**AIR FLOW**
200 l/s
423 CFM

SPARE PARTS

PART NO.	DESCRIPTION	QTY
1	AU521946 TX VALVE BLOCK 2T	1
2	H0088451 BLOWER ASSY - 24VDC 3 SPEED	1
3	H0112397 SOL VLV 24VDC 1/2" BSP WATER	1
4	H0148597 HIGH PRESSURE SWITCH	1
5	H0152017 LOW PRESSURE SWITCH	1
6	H0247253 ROOF SEAL	1
7	AU641C107 CIRCUIT BREAKER 10A	2
8	AU641C110 CIRCUIT BREAKER 15A	1
9	AU641065 CIRCUIT BREAKER 25A	2
10	H0262987 THERMOSTAT INC SENSOR 12-24VDC	1
11	AU661483 RELAY 20A 24VDC	2
12	ERR023 RELAY BASE - PANEL MOUNT	2
13	H0258193 COIL EVAPORATOR HEAT	1
14	UC022 KNOB SNOWFLAKE	1
15	UE016 THERMOSTAT DE-ICE	1
16	H0144118 CONDENSER FAN 24VDC	2
17	H0280095 FLEXIBLE HOSE O RING STRAIGHT #12 & #10	1
18	H0258471 CONDENSER COIL	1
19	AU531422 RECEIVER DRIER WITH SIGHT GLASS 3/8" MIOR	1
20	AU663562 ROTARY SWITCH MODE	1
21	H0126519 ROTARY SWITCH FAN	1
22	H0251907 FILTER COVER, INSIDE	1
23	H0251908 FILTER CLOTH	1
24	H0252200 FILTER COVER, RETURN AIR	1
25	UC901 DIFFUSER	2
26	AU681926 POTENTIOMETER	1
27	H0258194 EVAPORATOR COVER, FINAL ASSEMBLY	1
28	H0258494 CONDENSER COVER, FINAL ASSEMBLY	1
29	AU862211 LID RUBBER SEAL	3.5
30	H0498827 BULKHEAD FITTING 5/8" X 3/4" MIO	1
31	H0498831 DRAIN PIPE, 136L x 1/2" MBSPT x 16OD	1
32	H0498832 FITTING, ELB 1/2 MBSPP X 1/2 FBSPP	1
33	H0498828 WIRING HARNESS,CAROL S00W 3C AWG10	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	6.0 kW	20,472 BTU
Heating Capacity	11.0 kW	37,533 BTU
Fan Speeds	3	3
Air Flow	200 l/s	423 CFM
Power Supply	24 VDC	24 VDC
Current Draw	25 A	25 A
Refrigerant	R134a	R134a
Minimum Ambient Temperature	- 10°C	14°F
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	90.0 Kg	198.4.0 lbs
Technical Manual Reference	HD0148021	HD0148021
Dimension (L X W X H)	1020 mm X 830 mm X 330 mm	40.2 in X 32.7 in X 13.0 in

MAINTENANCE

MONTHLY / 400 HOURS

H0251908	Filter Cloth
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ANNUAL / 4,800 HOURS

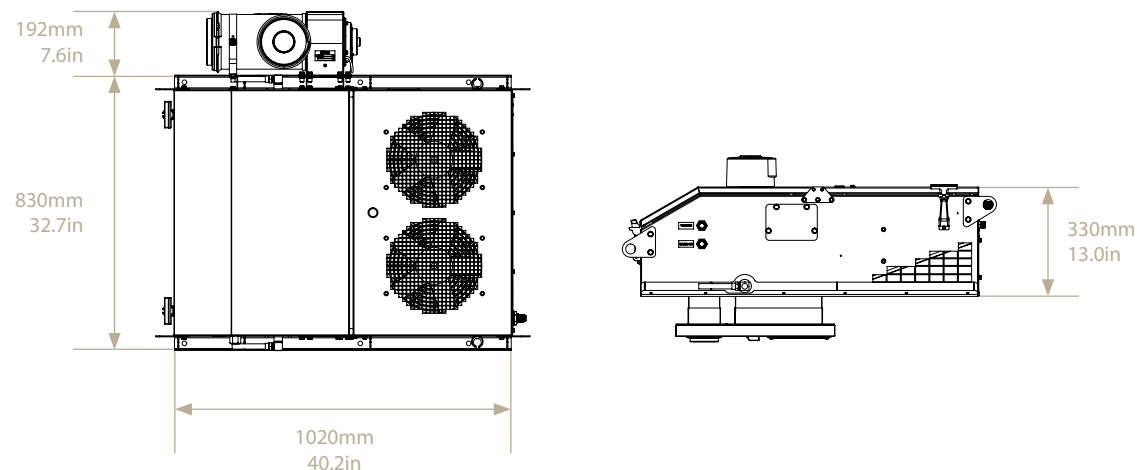
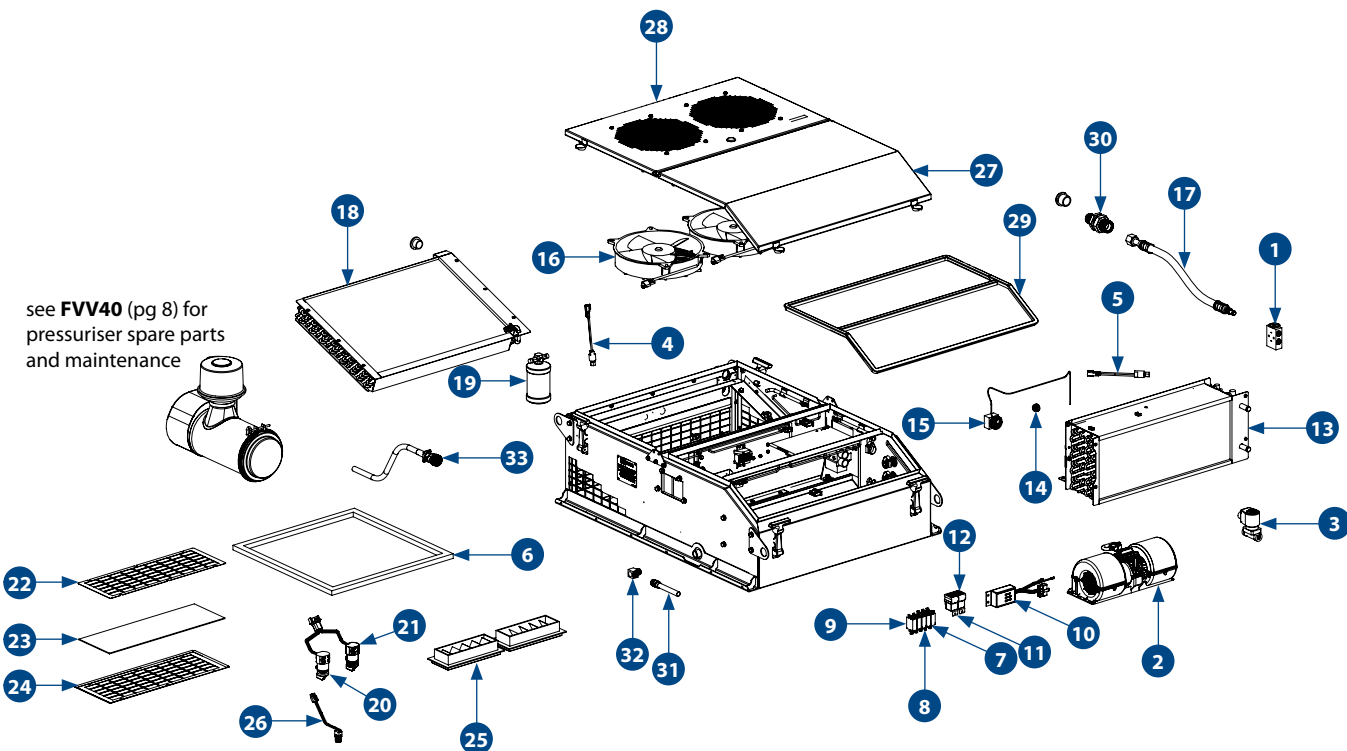
AU531422	RECEIVER DRIER
H0088451	BLOWER ASSY - 24VDC 3 SPEED
H0144118	CONDENSER FAN 24VDC

3 YEARS / 14,400 HOURS

AU521946	TX VALVE BLOCK 2T
H0148597	HIGH PRESSURE SWITCH
H0152017	LOW PRESSURE SWITCH
H0262987	THERMOSTAT INC SENSOR 12-24VDC
AU681926	POTENTIOMETER
AU862211	LID RUBBER SEAL
H0280095	FLEXIBLE HOSE O RING STRAIGHT #12 & #10
UE016	THERMOSTAT DE-ICE
AU661483	RELAY 20A 24VDC

COMPANION ITEMS

PART NO.	DESCRIPTION
H0404765	Hydraulic Driven Compressor 170 (V)
H0404764	Hydraulic Driven Compressor 170 (H)
AU270306	Engine Driven Compressor
AU270307	Engine Driven Compressor





DOZER



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OVERHEAD CRANE



RAIL SPECIAL VEHICLE



TRUCK



UNDERGROUND EQUIPMENT



WHEEL LOADER



TFC6

CEILING EVAPORATOR

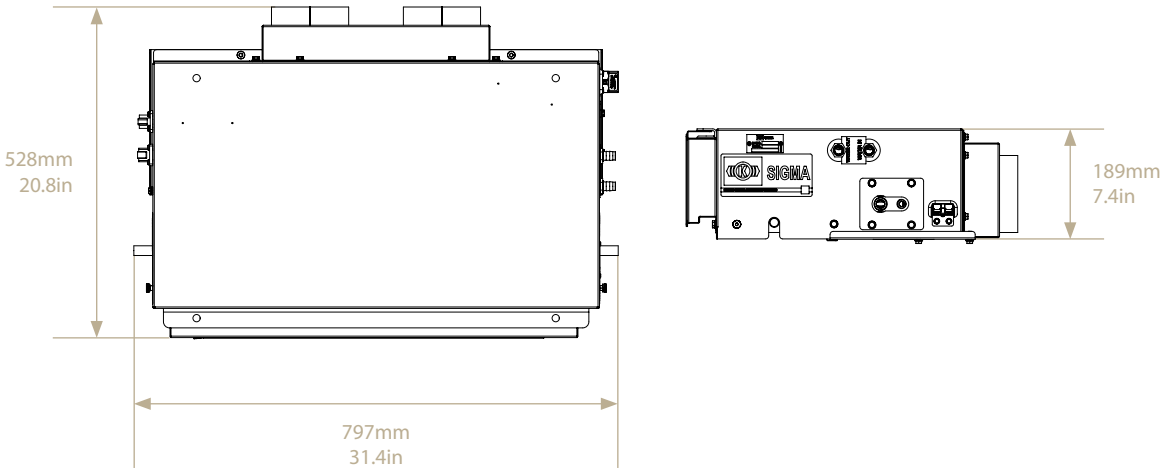
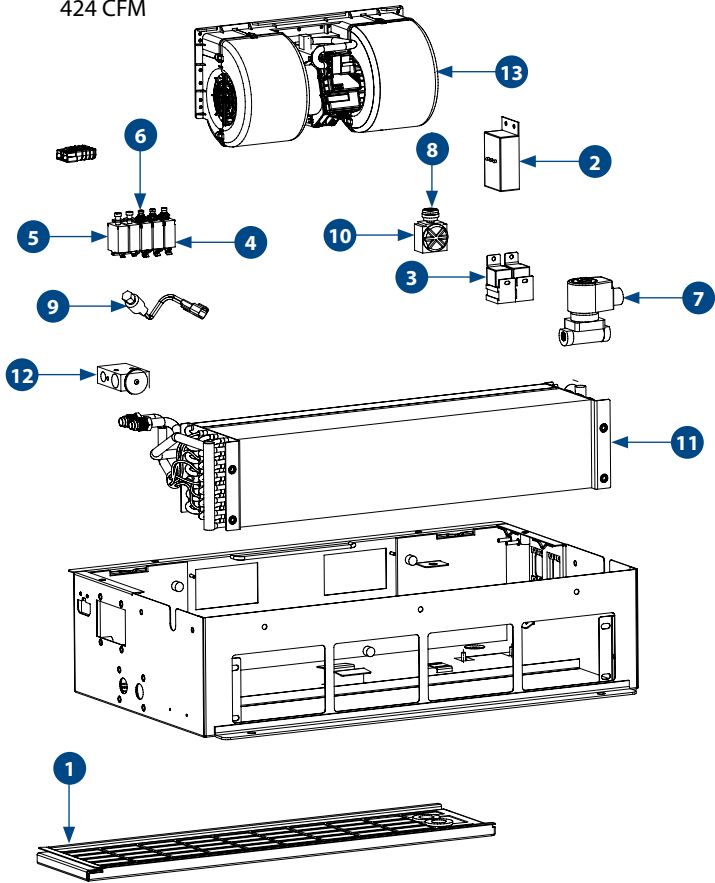
H0094278 (TFC6BX2)
6kW 24V Evaporator with Heating (7kW)
H0552560 (TFC6BX3)
6kW 24V Evaporator with Electric Heating

**COOLING**
6.0 kW
20,472 BTU

**HEATING (OPTION)**
7.0 kW
23,884 BTU

**POWER SUPPLY**
24 VDC

**AIR FLOW**
200 l/s
424 CFM



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AS502003 H0467593	RETURN AIR FILTER ASSY RETURN AIR FILTER MEDIA FOR AS502003	1 1
2 H0262987	THERMOSTAT Previously AU681925	1
3 AU661483 AU661483	RELAY 20A 24VDC 5 PIN (TFC6BX2) RELAY 20A 24VDC 5 PIN (TFC6BX3)	2 3
AU641C107 4 AU641C107 AU641C111	CIRCUIT BREAKER 10A PUSH PULL (TFC6BX2) CIRCUIT BREAKER 10A PUSH PULL (TFC6BX3) CIRCUIT BREAKER 5A PUSH PULL (TFC6BX3)	2 3 1
5 AU641C110	CIRCUIT BREAKER 15A PUSH PULL	1
6 AU641065	CIRCUIT BREAKER 25A PUSH PULL	2
7 H0112397	SOLENOID VALVE 24VDC 1/2" BSP WATER	1
8 UC022	KNOB SNOWFLAKE 6.35MM	1
9 H0152017	LP SWITCH ASSEMBLY	1
10 UE016	THERMOSTAT DEICE STUD	1
11 H0094351 H0552563	EVAPORATOR + HEATER COIL (TFC6BX2) EVAPORATOR + HEATER COIL (TFC6BX3)	1 1
12 AU521946	TX VALVE BLOCK 2T 3/8" IN 1/2" OUT R134A	1
13 H0088451	BLOWER ASSEMBLY - 24VDC 3 SPEED	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	6.0 kW	20,472 BTU
Heating Capacity	7.0 kW	23,884 BTU
Fan Speeds	3	3
Air Flow	200 l/s	424 CFM
Fresh Air (Optional)	40 l/s	85 CFM
Power Supply	24 VDC	24 VDC
Current Draw	13 A	13 A
Refrigerant	R134a	R134a
Minimum Ambient Temperature	-10°C	14°F
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	35.0 Kg	77.0 lbs
Technical Manual Reference	HD0041895	HD0041895
Dimension (L X W X H)	797 mm X 528 mm X 189 mm	31.4 in X 20.8 in X 7.4 in

MAINTENANCE

MONTHLY / 400 HOURS

AS502003	RETURN AIR FILTER
H0467593	RETURN AIR FILTER MEDIA

ANNUAL / 4,800 HOURS

H0088451	BLOWER ASSEMBLY - 24VDC 3 SPEED
----------	---------------------------------

3 YEARS / 14,400 HOURS

H0262987	THERMOSTAT
AU661483	RELAY 20A 24VDC 5 PIN
H0112397	SOLENOID VALVE 24VDC 1/2" BSP WATER
UE016	THERMOSTAT DEICE STUD
AU521946	TX VALVE BLOCK 2T 3/8" IN 1/2" OUT R134A

COMPANION ITEMS

PART NO.	DESCRIPTION
H0095174	Wall mount Condenser 6kW 24V (TCF6BX2)
FVV40	Pressuriser
H0123925	Evaporator to Switch Loom
H0124104	Switch Panel Remote Assembly

Please contact SIGMA for more information including details on an overhaul scope and interval.
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TFC8

CEILING EVAPORATOR

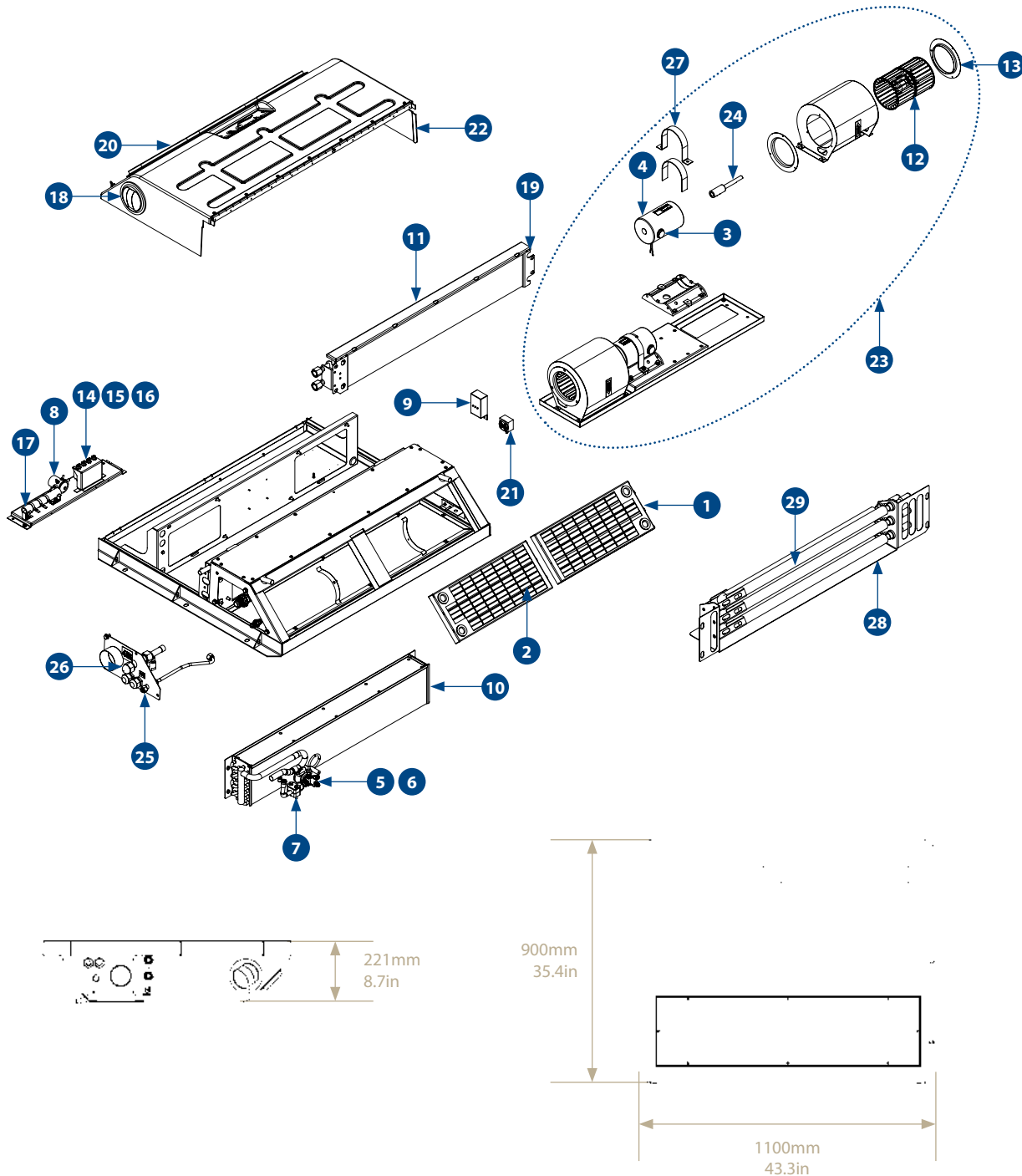
H0406943 (TFC8BX5)
8kW 24V Evaporator
H0407003 (TFC8BX6)
8kW 24V Evaporator with Electric Heating

**COOLING**
8.0 kW
27,296 BTU

**HEATING (OPTION)**
upto 11.0 kW
upto 37,533 BTU

**POWER SUPPLY**
24 VDC

**AIR FLOW**
230 l/s
487 CFM



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1	AS271535 RETURN AIR FILTER	2
2	S2715039 FILTER MEDIA FOR AS271535 ONLY	2
3	H0393309 MOTOR BRUSH 24VDC for H0384821 Previously AU320622 for H0039230	4
4	H0384821 24V DC SINGLE SHAFT BRUSHED MOTOR Previously H0039230	2
5	H0407004 THERMAL EXPANSION VALVE Previously AU521509	1
6	H0407005 THERMAL EXPANSION ORIFICE NOZZLE Previously AU521508	1
7	AU523365 LOW PRESSURE SWITCH 1/4" FF 205kPa	1
8	UE072 RELAY 24VDC 70A AUTOMOTIVE	1
9	H0262987 THERMOSTAT	1
10	AU120394 EVAPORATOR COIL 864MM X 166MM X 95MM 4RW TFC8	1
11	AU130009 HEATER COIL 864MM X 152MM X 32MM 2RW TFC8	1
12	AU410105 BLOWER 120D X 178W X 3/8 CW DUAL INLET	2
13	AU410902 INLET RING 105MM	4
14	AU641065 CIRCUIT BREAKER 25A PUSH PULL	1
15	AU641067 CIRCUIT BREAKER 35A PUSH PULL	1
16	AU641C111 CIRCUIT BREAKER 5A PUSH PULL	2
17	AU692107 RESISTOR 2 OHM 100W 3 CLIPS ADJUSTABLE	1
18	AU821300 DIFFUSER ROUND 120MM POLYAMIDE	2
19	UC027 EVAPORATOR MOTOR MOUNT	2
20	UC901 DIFFUSER 246 X 104MM	3
21	UE016 THERMOSTAT DEICE STUD	1
22	AS271543 TFC8 COVER ASSEMBLY	1
23	H0408797 SUPPLY AIR FAN ASSEMBLY Previously AS271531	1
24	AU872135 SHAFT EXTENSION 1/2" FEMALE X 1/2" MALE	2
25	UR009 BULKHEAD FITTING 3/8" MF,	1
26	UR010 BULKHEAD FITTING 3/4" MF,	1
27	S5006029 MOTOR MOUNT CLAMP 97MM	2
28	AS271576 HEATER ASSEMBLY (BX6)	1
29	AU691191 HEATER U SHAPE 2.0kW 240V 675MM SS FIN (BX6)	1
AU663563	ROTARY SWITCH A B C D FAN	1
AU663569	ROTARY SWITCH MODE	1
UE057	VALVE SOLENOID 1/4" BSP 24VDC WATER	1
UC504	DRAIN NOZZLE 13MM	4
AU681065	THERMOSTAT T3 80°C SPST AUTO (BX6)	1
AU651346	CONTACTOR 12A 24VDC 3 POLE 1NO 1NC (BX6)	1
AU641601	CIRCUIT BREAKER 6.3-10A 3 POLE (BX6)	2
AU641612	CIRCUIT BREAKER 16A 3POLE (BX6)	1
AU662410	SWITCH KEYED 20A (BX6)	1
UC031	FASTENER ASSEMBLY 1/4 TURN - STUD & RECEIPT	3
UE699	CIRCUIT BREAKER 60A STUD TYP MANUAL (BX5)	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	8.0 kW	27,296 BTU
Heating Capacity	11 kW	37,533 BTU
Electric Heating Capacity	6.0 kW	20,472 BTU
Fan Speeds	3	3
Air Flow	230 l/s	487 CFM
Power Supply	24 VDC	24 VDC
Current Draw	25 A	25 A
Refrigerant	R134a	R134a
Minimum Ambient Temperature	-10°C	14°F
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	90 kgs	198.4 lbs
Technical Manual	HD0148021	HD0148021
Dimension (L X W X H)	1100 mm X 900 mm X 221 mm	43.3 in X 35.4 in X 8.7 in

MAINTENANCE

MONTHLY / 400 HOURS

AS271535	RETURN AIR FILTER
S2715039	FILTER MEDIA FOR AS271535 ONLY

6 MONTHS / 2,400 HOURS

H0393309	MOTOR BRUSH 24VDC EACH
----------	------------------------

ANNUAL / 4,800 HOURS

H0384821	BRUSHED MOTOR, FOR 24V DC
----------	---------------------------

3 YEARS / 14,400 HOURS

H0407004	THERMAL EXPANSION VALVE
H0407005	THERMAL EXPANSION ORIFICE NOZZLE
AU523365	LOW PRESSURE SWITCH
UE016	THERMOSTAT DE-ICE
AS271543	TFC8 Cover assembly
UE072	RELAY 24VDC 70A AUTOMOTIVE
UE057	VALVE SOLENOID 1/4" BSP 24VDC WATER
H0262987	POTENTIOMETER

COMPANION ITEMS

PART NO.	DESCRIPTION
AS271535S	Return Air Filter - Disposable Option
H0404766	Hydraulic Driven Compressor 200 Horizontal
AU1102401	Radiator Condenser
AU270314	Engine Driven Compressor
AU2701001	Engine Driven Compressor
AU531411	Receiver Drier
AU531422	Receiver Drier
H0235424	Electric Condenser
FVV40	Pressuriser
H0404767	Hydraulic Driven Compressor 200 (Vertical)



DOZER



DRAGLINE & SHOVEL



DRILL



EXCAVATOR



FORKLIFT & TELEHANDLERS



OVERHEAD CRANE



RAIL SPECIAL VEHICLE



TRUCK



UNDERGROUND EQUIPMENT



WHEEL LOADER



TFF5

FLOOR MOUNTED EVAPORATOR

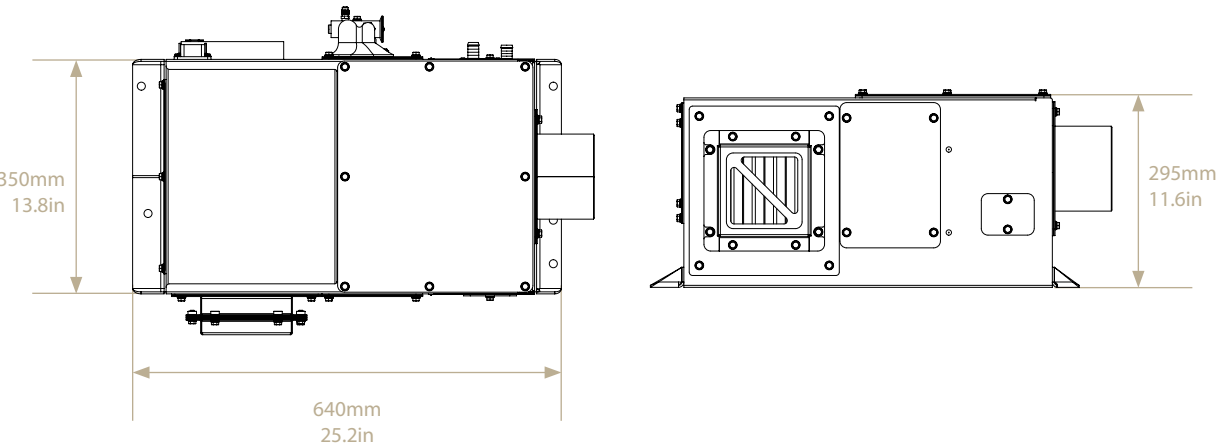
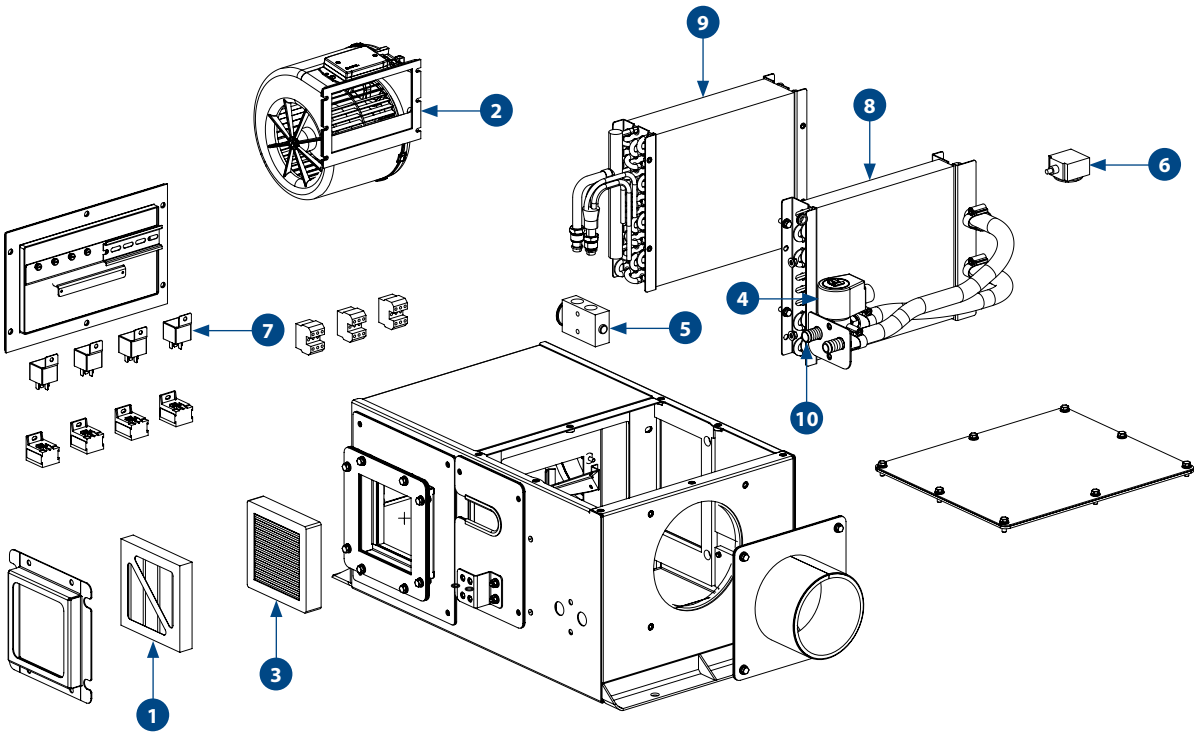
- TFF5BX1**
4kW 24V Evaporator with Heating (SV Front Mounted)
- TFF5BX2**
4kW 24V Evaporator with Heating (SV Rear Mounted)

**COOLING**
4.0 kW
13,648 BTU

**HEATING (OPTION)**
4.0 kW
13,648 BTU

**POWER SUPPLY**
24 VDC

**AIR FLOW**
125 l/s
265 CFM



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU4601021	FILTER PLEATED 30/30 130MM X 130MM X 22MM	1
2 AU4301014	FAN DECK	1
3 AU4601020	FILTER HEPA 95% EFF 130MM X 130MM X 27MM	1
4 UE057	SOLENOID VALVE 24VDC 1/4BSP WATER	1
5 H0081856	TX VALVE BLK PARKER 2T R134A	1
6 UE016	THERMOSTAT DEICE STUD	1
7 H0076255	RELAY 24V 40A-DIODE PROTECTED	4
8 AU1301002	HEATER COIL 250MM X 228MM X 33MM 2ROW	1
9 AU1201014	EVAPORATOR COIL 250MM X 228MM X 66MM 4ROW	1
10 UC096	FTG P3 5/8 STR BRB x 1/4 MBSPT	1
UC022	KNOB SNOWFLAKE 6.35mm	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	4.0kW	13,648 BTU
Heating Capacity	4.0 kW	13,648 BTU
Fan Speeds	3	3
Air Flow	125 l/s	265 CFM
Fresh Air	10 l/s	21 CFM
Power Supply	24 VDC	24 VDC
Current Draw	20 A	20 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	30.0 Kg	66.0 lbs
Technical Manual	SM510-4044	SM510-4044
Dimension (L X W X H)	640 mm X 350 mm X 295 mm	25.2 in X 13.8 in X 11.6 in

MAINTENANCE

MONTHLY / 400 HOURS	
AU4601021	FILTER PLEATED 30/30 130 X 130 X 22MM
ANNUAL / 4,800 HOURS	
AU4301014	FAN DECK
AU4601020	FILTER HEPA 95% EFF 130MM X 130MM
3 YEARS / 14,400 HOURS	
UE057	SOLENOID VALVE 24VDC 1/4BSP WATER
H0081856	TX VALVE BLK PARKER 2T R134A
UE016	THERMOSTAT DEICE STUD
H0076255	RELAY 24V 40A-DIODE PROTECTED

COMPANION ITEMS

PART NO.	DESCRIPTION
TCW5BX1	Electric Condenser (Captive O-Ring)
TCW5BX2	Electric Condenser (Standard O-Ring)
FVV40	Pressuriser
H0404763	Hydraulic Driven Compressor 150 (Vertical)
H0081855	Receiver Drier
KNHV90043	TX Valve Fitting Kit
KNHV90044	R/A Box Duct Kit
AU531422	Receiver Drier
H0023631	Return Air Box - 6 (BX1)
AS4044301	Return Air Duct - 5 (BX2)
H0037067	FILTER - OPTIONAL (for H0023631)
AU679519	CONTROLLER ELECTRONIC 24VDC DISPLAY
H0136099	MANUAL CONTROLLER (for BX1)
H0004773	CONT PANEL WELD ASSY (for BX2, holds 3 AU679519)
H0005892	CONT PANEL WELD ASSY (for BX1, holds 1 AU679519)



DOZER



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DRILL



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TRUCK



UNDERGROUND EQUIPMENT



WHEEL LOADER



TFR7

ROOFTOP EVAPORATOR

TFR7BX2

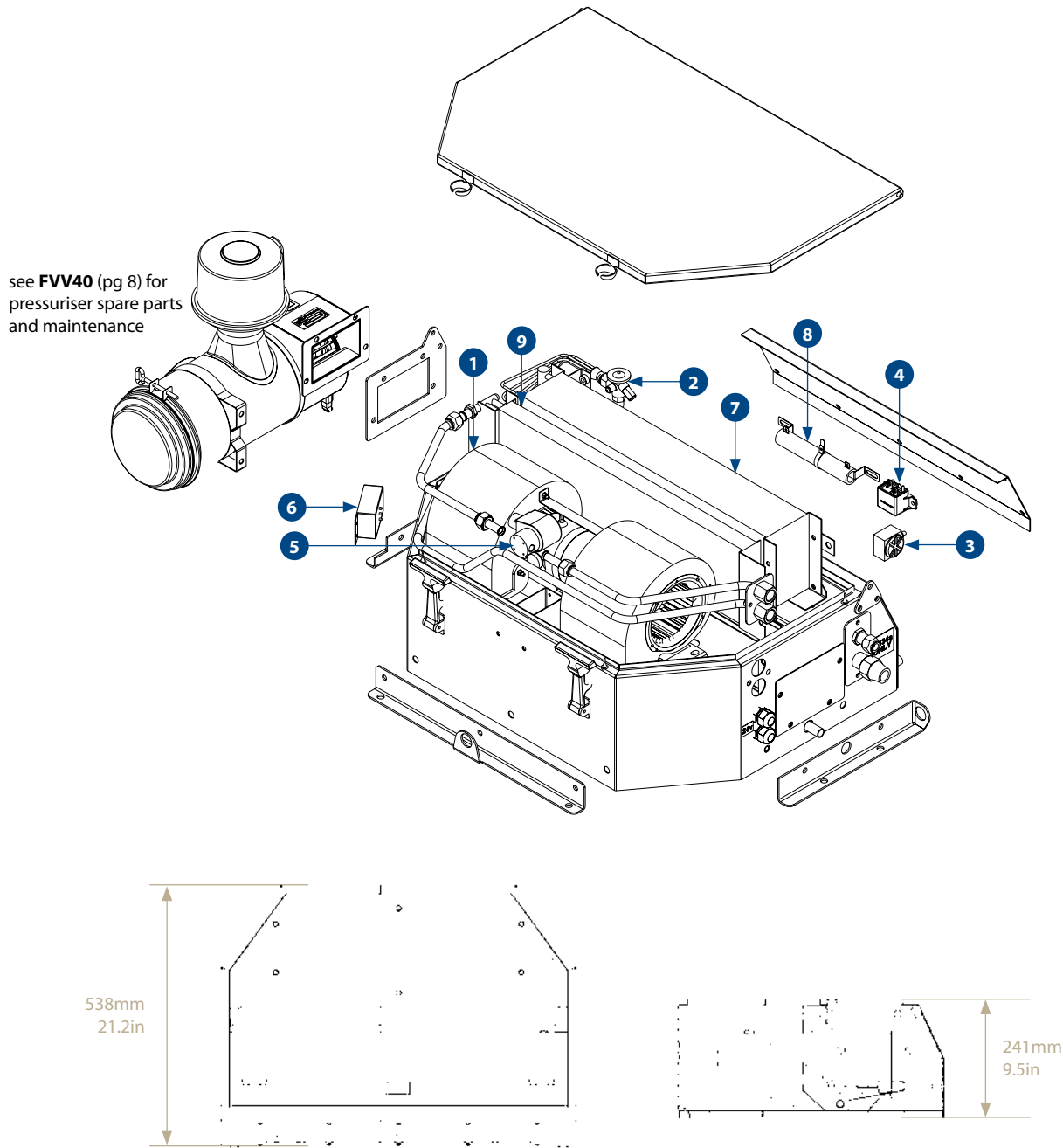
7kW 24V Evaporator with Heating (6kW)

**COOLING**
7.0 kW
23,884 BTU

**HEATING (OPTION)**
6.0 kW
20,472 BTU

**POWER SUPPLY**
24 VDC

**AIR FLOW**
170 l/s
360 CFM



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1	AS500037 SUPPLY FAN ASSEMBLY	1
AU320C053	MOTOR 3450-263 27VDC D/S	1
UF171	BLOWER 121D X 127W X 3/8" DI	2
UF173	BLOWER HOUSING LEFT HAND	1
UF174	BLOWER HOUSING RIGHT HAND	1
AU320028	MOTOR BRUSH KIT - ASSEMBLY + HOLDER (2x BRUSH)	1
AU410902	INLET RING 105MM (Previously UF034)	2
2	AU521509 TX VALVE 2T 3/8" IN 1/2" OUT 1/4" EQ R134A	1
AU521508	TX ORIFICE 2T R22 #06	1
3	UE016 THERMOSTAT DEICE STUD	1
4	AU661487 RELAY 50A 24VDC 1 POLE	1
5	UE057 VALVE SOLENOID 1/4" BSP 24VDC WATER	1
6	AU681925 THERMOSTAT 12-24VDC WITH SENSOR + POT	1
7	AU120954 EVAPORATOR COIL 570MM X 152MM X 95MM 6RW	1
8	AU692105 RESISTOR 2 OHM 100W 1 CLIPS ADJUSTABLE	1
9	AU130014 HEATER COIL 570 X 152 X 32 2RW TFR6BX2	1
H0482198	RETURN AIR FILTER MEDIA	1
MC0445	RETURN AIR FILTER ASSEMBLY E&T SERIES	1
AU862213	SEAL RUBBER	3
AU851590	TOGGLE CLAMP RUBBER	2
AU641065	CIRCUIT BREAKER 25A PUSH PULL	1
AU641C110	CIRCUIT BREAKER 15A PUSH PULL	1
AU821300	DIFFUSER ROUND 120MM POLYAMIDE	4
AU523365	LP SWITCH 1/4" FF 205kPa	1
AU641C111	CIRCUIT BREAKER 5A PUSH PULL	2
AU663563	ROTARY SWITCH FAN	1
AU663569	ROTARY SWITCH MODE	1
UR008	BULKHEAD FITTING 1/2" MF,	1
UC504	DRAIN NOZZLE 13mm	4

SPECIFICATIONS

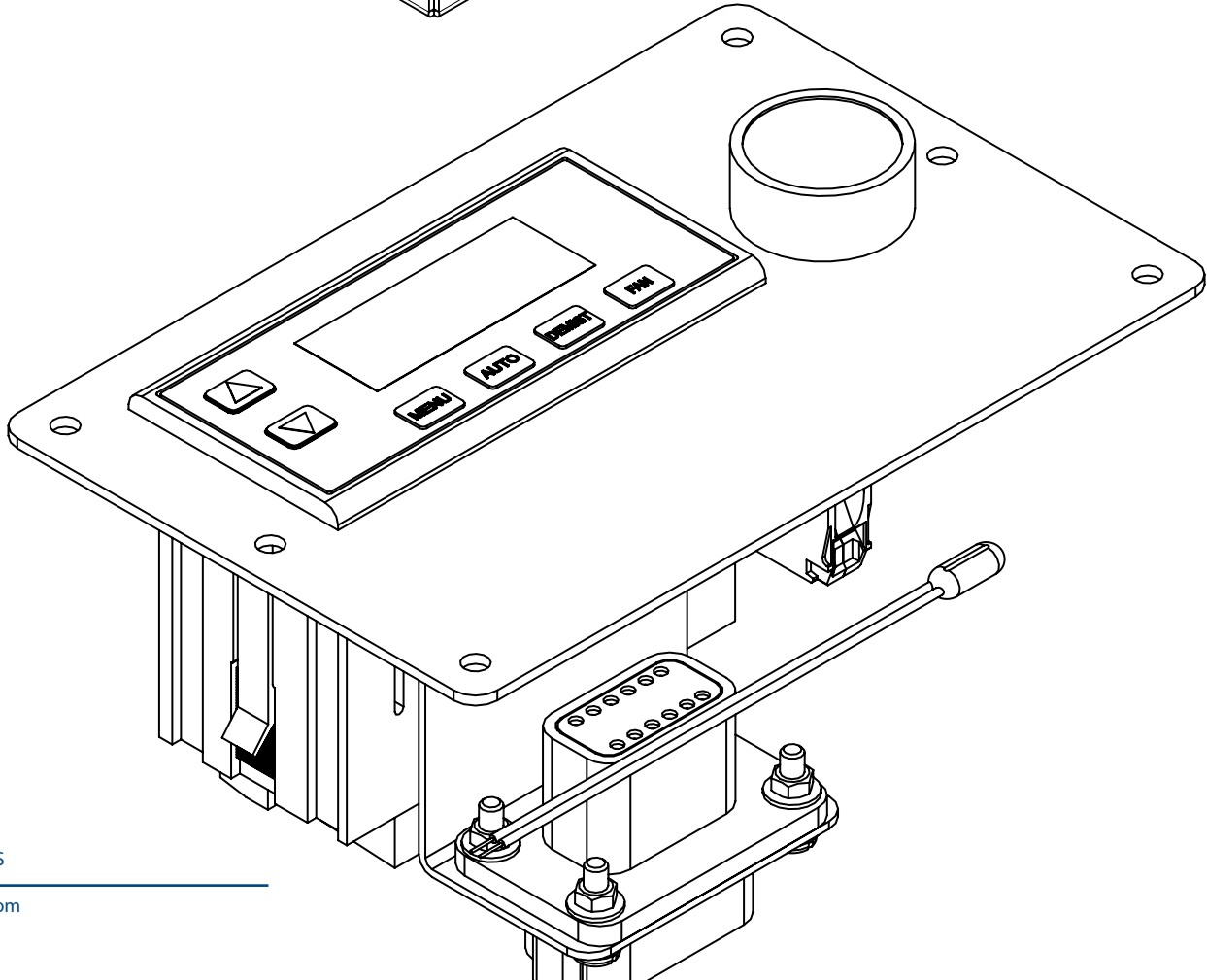
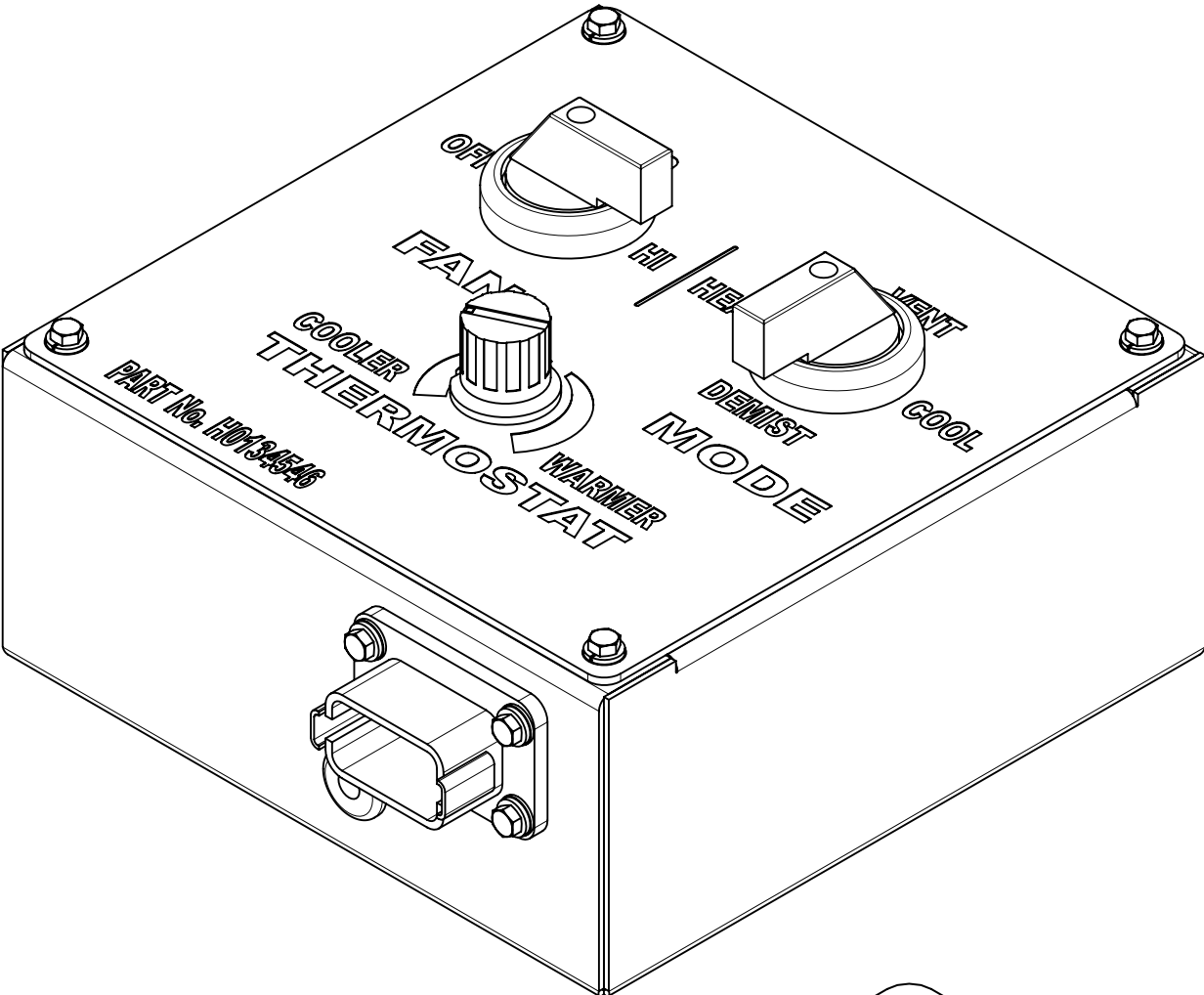
	METRIC	IMPERIAL
Cooling Capacity	7.0 kW	23,884 BTU
Heating Capacity	6.0 kW	20,472 BTU
Fan Speeds	3	3
Air Flow	170 l/s	360 CFM
Fresh Air	30 l/s	64 CFM
Power Supply	24 VDC	24 VDC
Current Draw	13.5 A	13.5 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	80.0 Kg	176.0 lbs
Technical Manual	SM395-5000	SM395-5000
Dimension (L X W X H)	734 mm X 538 mm X 241 mm	28.9 in X 21.2 in X 9.5 in

MAINTENANCE

MONTHLY / 400 HOURS	
MC0445	RETURN AIR FILTER ASSEMBLY E&T SERIES
H0482198	RETURN AIR FILTER MEDIA
6 MONTHS / 2,400 HOURS	
AU320028	MOTOR BRUSH KIT - ASSEMBLY + HOLDER
ANNUAL / 4,800 HOURS	
AU320C053	MOTOR 3450-263 27VDC D/S
3 YEARS / 14,400 HOURS	
AU521509	TX VALVE 2T 3/8"IN 1/2"OUT 1/4"EQ R134A
AU521508	TX ORIFICE 2T R22 #06
UE016	THERMOSTAT DEICE STUD
AU661487	RELAY 50A 24VDC 1 POLE
UE057	VALVE SOLENOID 1/4" BSP 24VDC WATER
AU681925	THERMOSTAT 12-24VDC WITH SENSOR + POT
AU862213	SEAL RUBBER

COMPANION ITEMS

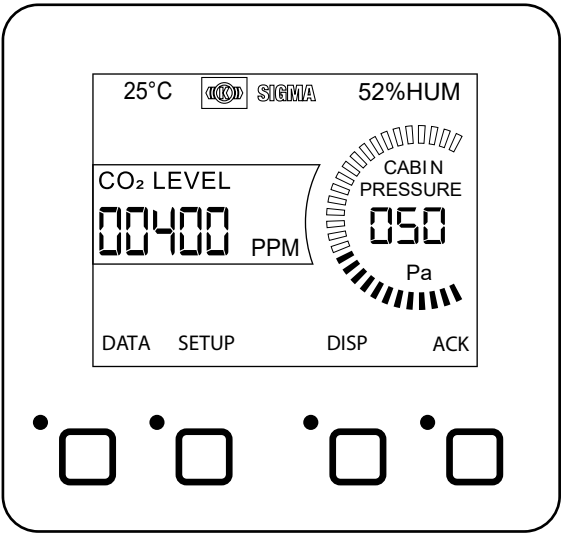
PART NO.	DESCRIPTION
TCF7BX2	Electric Condenser
H0404765	Hydraulic Compressor 170 (Vertical)
H0404764	Hydraulic Compressor 170 (Horizontal)
AU1102401	Radiator Condenser
AU270306	Engine Driven Compressor
AU270307	Engine Driven Compressor
AU270311	Engine Driven Compressor
AU270312	Engine Driven Compressor
AU531411	Receiver Drier
AU531422	Receiver Drier



CONTROLS

Physical interface to control equipment and monitor performance

MODEL	APPLICATION	PAGE
MEW11	MPR25MX1	98
H0134546	MPR9MX1, MPR9VX1	99
H0082302	MPR9MX1, MPR9VX1	100
H0552775	 SIGMA AIR SHIELD	101





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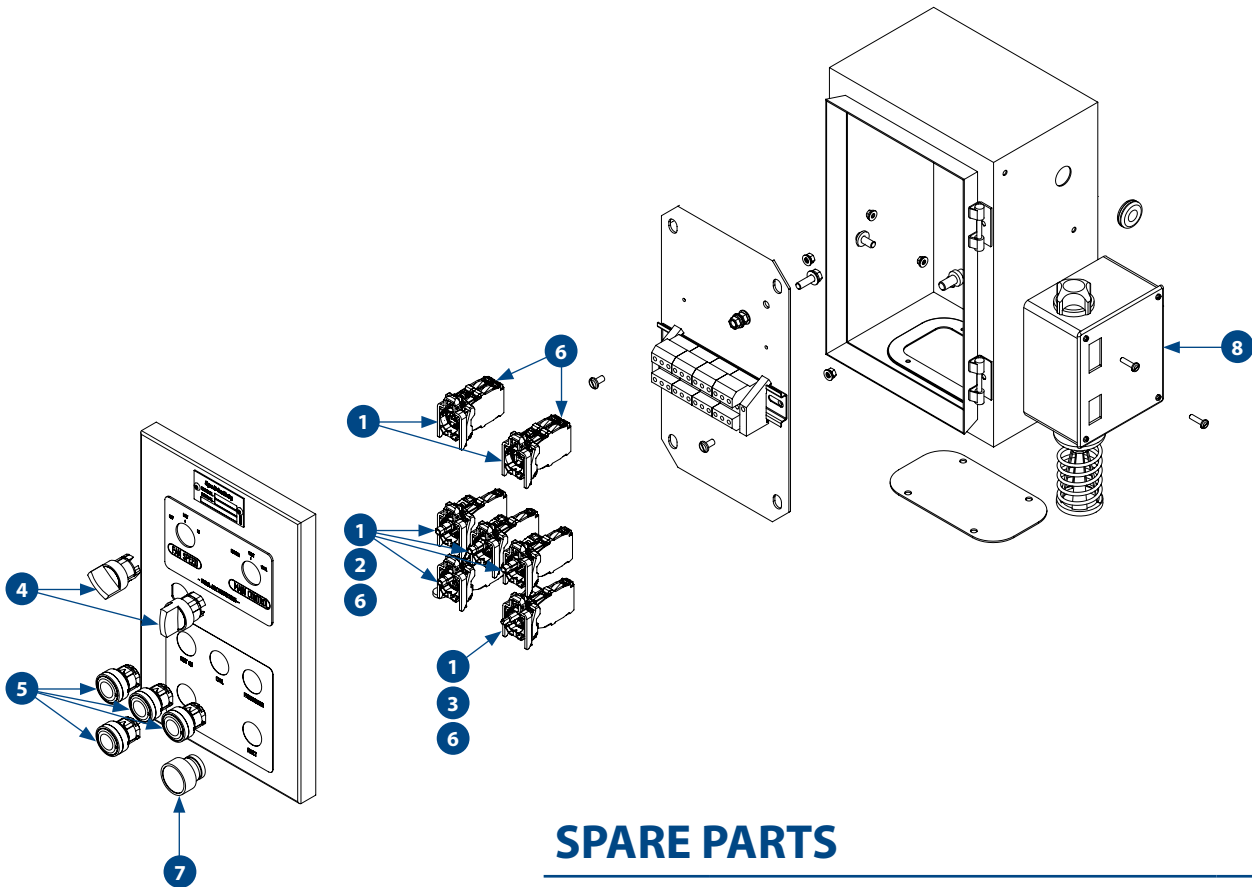
WHEEL LOADER



MEWI1

PILOT CONTROL BOX

MEWI1
Pilot Control Box 24V - 110V
for MPR25MX1



SPARE PARTS

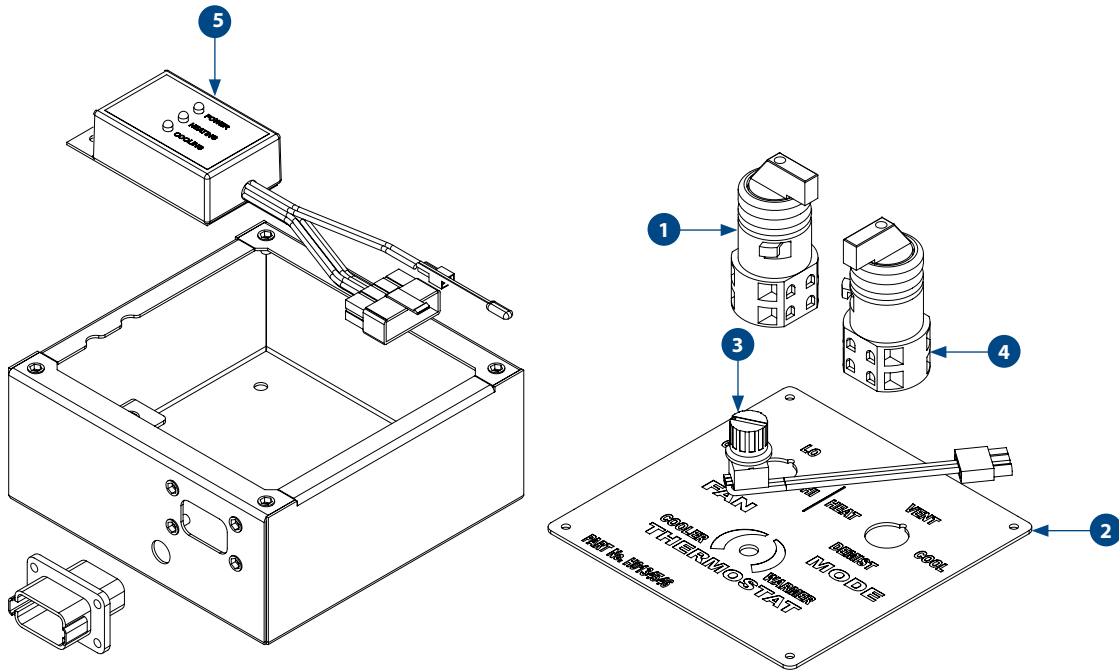
PART NO.	DESCRIPTION	QTY
1 AU662230	PUSH BUTTON SWITCH BASE	7
2 AU665451	LED GREEN	4
3 AU665452	LED RED	1
4 AU662233	ROTARY SWITCH 3 WAY	2
5 AU662234	PUSH BUTTON GREEN	4
6 AU662235	SWITCH CONTACT STANDARD	9
7 AU667167	PUSH BUTTON RED	1
8 AU681107	THERMOSTAT RT4 19 TO 30°C	1



H0134546

MANUAL CONTROL BOX

H0134546
Remote Control Box Assembly
for MPR9MX1 and MPR9VX1



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 H0129836	ROTARY SWITCH FAN	1
2 H0134548	REMOTE CONTROL BOX LABEL COVER	1
3 AU681926	POTENTIOMETER	1
4 AU663562	ROTARY SWITCH MODE	1
5 H0262987	THERMOSTAT	1



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RAIL SPECIAL VEHICLE



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UNDERGROUND EQUIPMENT



WHEEL LOADER

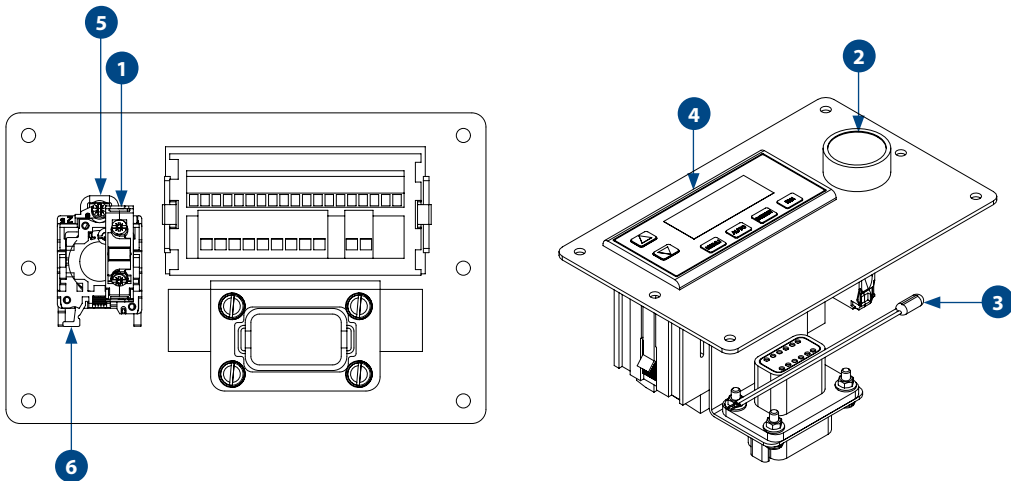


H0082302

ELECTRONIC CONTROL BOX

H0082302

Controller Display
for MPR9MX1 and MPR9VX1



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU662235	SWITCH CONTACT STANDARD	1
2 AU667167	PUSH BUTTON RED	1
3 AU6811015	THERMOSTAT SENSOR	1
4 AU679519	ELECTRONIC CONTROLLER	1
5 AU665452	LED RED	1
6 AU662230	PUSH BUTTON SWITCH BASE	1



H0552775

CABIN AIR SHIELD MONITORING SYSTEM

H0552775

12V/24V Display with Software



DOZER



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EXCAVATOR



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OVERHEAD CRANE



RAIL SPECIAL VEHICLE



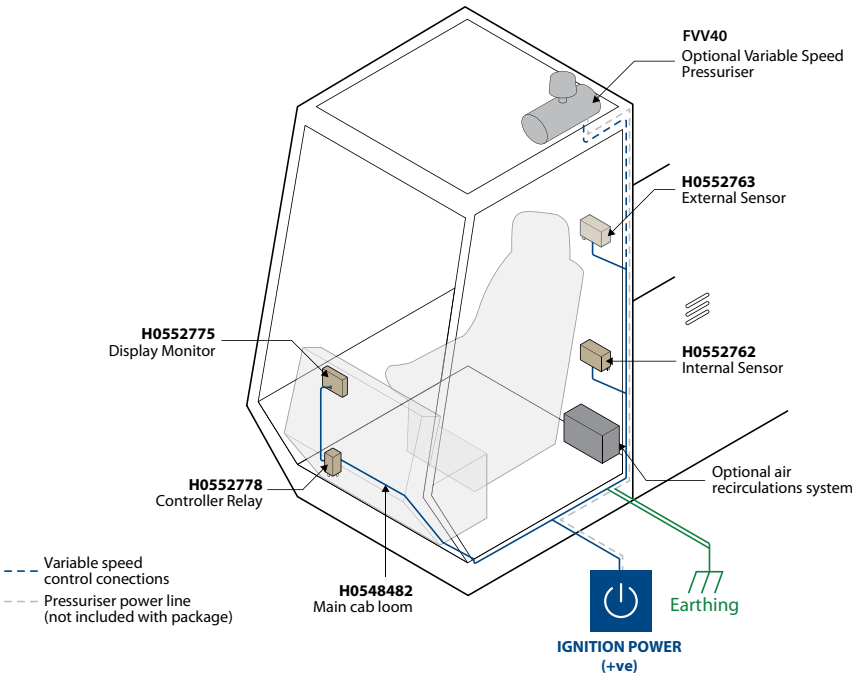
TRUCK



UNDERGROUND EQUIPMENT



WHEEL LOADER



COMPANION ITEMS

PART NO.	DESCRIPTION
H0552762	INTERNAL SENSOR, INCLUDING SOFTWARE
H0552763	EXTERNAL SENSOR, INCLUDING SOFTWARE
H0552778	CONTROLLER, AIR QUALITY
H0548482	WIRING HARNESS,AIR QUALITY, MAIN CAB A
H0614665	24V BRUSHLESS FAN PRESSURISER 270



SERVICEABLE PARTS

Physical interface to control equipment and monitor performance

CATEGORY	PAGE	CATEGORY	PAGE
ADAPTOR	103	INTERLOCK	117
AUXILIARY CONTACT	103	ISOLATION SWITCH	117
BASE	103	KEY	117
BLOWER	104	KNOB	118
BRACKET	104	LATCH	118
BRUSH	104	LED	118
BUSBAR	105	LID	118 - 119
BUTTON	105	MOTOR	119
CABLE	105	MOUNT	119 - 120
CIRCUIT BREAKER	105 - 106	NOZZLE	120
CLAMP	106 - 107	OIL SEPARATOR	120
CLIP	107	ORIFICE	120
COMPRESSOR	107	PIPE	120 - 121
CONDENSER	107	PLUG	121
CONDENSER COIL	107 - 108	POTENTIOMETER	121
CONTACTOR	108	PRE CLEANER	121
CONTROLLER	108	PRESSURE SWITCH	121 - 122
CONVERTER	109	PROP	122
COVER	109	RECEIVER	122
DIFFUSER & LOUVRE	109	REFRIGERATION OIL	122
DIODE	110	RELAY	123
DRIER	110	RELAY BASE	123
ELEMENT	110	RESISTOR	123
END CAP	110	SEAL	124
END PLATE	111	SENSOR	124
EVAPORATOR COIL	111	SHAFT EXTENSION	124
EVAPORATOR + HEATER COIL	111	SHUNT TRIP	125
FAN	112	SIGHT GLASS	125
FILTER	113	SOLENOID COIL	125
FILTER ASSEMBLY	113	STRIKER	125
FILTER MEDIA	114	SUPPRESSION FILTER	125
FITTINGS	114 - 115	SUPPRESSOR	125
GAS STRUT	115	SWITCH	126
GASKET	115	THERMOSTAT	126 - 127
GAUGE	115	TIMER	127
GRILLE	116	TRANSFORMER	127
HEATER	116	VALVE	127 - 128
HEATER COIL	116	VIBRATION ELIMINATOR	129
HOSE	116 - 117	WING NUT	129
INLET RING	117		

ADAPTOR

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU519074	ADAPTOR 134A 1/4" HIGH SIDE RED				MPR25MX1		
AU519075	ADAPTOR 134A 1/4" LOW SIDE BLUE				MPR25MX1		
H0133899	2-1/2 INCH ADAPTOR	H0111417					

AUXILIARY CONTACT

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
642B20039	AUXILIARY CONTACT - CMC				MPR9MX1 MPR9VX1		
642E20014	AUXILIARY CONTACT				MPR9VX1		
AU641454	CIRCUIT BREAKER AUX 1NO 1NC				MPR9MX1 MPR9VX1		
AU641501	CIRCUIT BREAKER AUX 1CO				MPR7MX1 MPR7MZ1 MPR20MX1 MPR25MX1		
AU6511001	AUX CONTACT				MPV5MX2		
AU653602	AUXILIARY CONTACT 2NO 2NC				MPR7MX1 MPR7MZ1 MPR20MX1 MPR25MX1		
H0082714	AUXILIARY CONTACTOR				MPR9MX1 MPR9VX1		
H0082715	AUXILIARY CONTACT CB				MPR9MX1		

BASE

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU661045	RELAY BASE				MPR9MX1 MPR9VX1		
AU662230	PUSH BUTTON SWITCH BASE						MEWH1 MEW11
H0343830	RELAY, BASE FOR 8 PIN G2R				MPR9MX1 MPR9VX1		



BLOWER

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU400050	BLOWER ASSEMBLY 3SPEED 12V		EPR4AX1				
AU410105	BLOWER 120D X 178W X 3/8 CW DUAL INLET					H0406943 H0407003	
AU410130	BLOWER 250D X 242W X 19MM CW DI				MPR25MX1		
AU410503	BLOWER ASSEMBLY 240V 50HZ				H0550437		
AU410520	BLOWER 178D X 102W X 19MM CCW SINGLE INLET	FVV100MR1 PVV50M2					
AU410606	BLOWER 120D X 89W X 14MM CW SINGLE INLET	FVV50M1					
AU411041	BLOWER IMPELLER 310D X 154W 415V 50HZ				MPV5MX2		
H0023291	BLOWER IMPELLER 307D x 222W 240VAC				MPW5MX1		
H0088451	BLOWER ASSEMBLY 3SPEED 24V		EPR4BX1			H0094278 H0269191	
UF017	BLOWER 121D X 76W X 3/8" CCW SINGLE INLET		EB9EH4X				
UF018	BLOWER 121D X 76W X 3/8" CW SINGLE INLET		EB9EH4X				
UF040	HOUSING SUPPLY AIR FAN CCW		EB9EH4X				
UF041	HOUSING SUPPLY AIR FAN CW		EB9EH4X				
UF171	BLOWER 121D X 127W X 3/8" DUAL INLET					TFR7BX2	
UF173	BLOWER HOUSING LEFT HAND					TFR7BX2	
UF174	BLOWER HOUSING RIGHT HAND					TFR7BX2	

BRACKET

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AS161638	BRACKET AIR CLEANER ASSY	FVV50M1					
AS162611	FILTER SUPPORT CLAMP ASSEMBLY	FVV100MR1 PVV50M2					
S5006030	FAN SET BRACE		EB9EH4X				

BRUSH

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU320028	MOTOR BRUSH KIT - ASSEMBLY + HOLDER					TFR7BX2	
H0393309	MOTOR BRUSH 24V		EB9EH4X			H0406943 H0407003 TCF7BX2	

BUSBAR

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
642E10063	BUSBAR TERMINAL				MPR25MX1		
AU635609	BUSBAR 5 BREAKER 3RV				MPR25MX1		
AU635610	BUSBAR 2 BREAKER 3RV				MPR25MX1		
H0100159	BUSBAR				MPR9MX1		
H0222341	BUSBAR				MPR9MX1 MPR9VX1		

BUTTON

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU662234	PUSH BUTTON GREEN						MEW11
AU667167	PUSH BUTTON RED						H0082302 MEW11

CABLE

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU230818	COMPRESSOR LEAD				MPR9MX1		
H0498828	WIRING HARNESS,CAROL 500W 3C AWG10w					H0269191	
UC042	CABLE PUSH/PULL F/DRIVE 1500MM		EB9EH4X EFF4BX1				

CIRCUIT BREAKER

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
642M076	CIRCUIT BREAKER				MPR9MX1		
642M279	CIRCUIT BREAKER				MPR9MX1 MPR9VX1		
AU641065	CIRCUIT BREAKER 25A					H0094278 H0269191 H0406943 H0407003 TFR7BX2	
AU641067	CIRCUIT BREAKER 35A PUSH PULL					H0406943 H0407003	
AU641093	CIRCUIT BREAKER 16A 3 POLE				MPV5MX2 MPW5MX1		
AU641096	CIRCUIT BREAKER 2A 1 POLE				MPV5MX2		



CIRCUIT BREAKER continued

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU641119	CIRCUIT BREAKER 16A 1 POLE			H0433161		TDR7BX2 TFC6BX1	
AU641332	3A CIRCUIT BREAKER				MPR9MX1		
AU641336	16A CIRCUIT BREAKER				MPR9MX1		
AU641337	6A CIRCUIT BREAKER				MPR9MX1		
AU641390	CIRCUIT BREAKER 4A 2 POLE				H0550437 MPW5MX1		
AU641486	CIRCUIT BREAKER 1.1-1.6A 3 POLE				MPR25MX1		
AU641488	CIRCUIT BREAKER 1.8-2.5A 3 POLE				MPR25MX1		
AU641490	CIRCUIT BREAKER 2.8-4.0A 3 POLE				MPR25MX1		
AU641492	CIRCUIT BREAKER 4.5-6.3A 3 POLE				MPR25MX1		
AU641496	CIRCUIT BREAKER 11.0-16.0A 3 POLE				H0550437 MPR25MX1		
AU641499	CIRCUIT BREAKER 20.0-25.0A 3 POLE				MPR25MX1		
AU641601	CIRCUIT BREAKER 6.3-10A 3 POLE					H0407003	
AU641612	CIRCUIT BREAKER 16A 3POLE (BX6)					H0407003	
AU641C107	CIRCUIT BREAKER 10A					H0094278 H0269191	
AU641C110	CIRCUIT BREAKER 15A					H0094278 H0269191 TFR7BX2	
AU641C111	CIRCUIT BREAKER 5A PUSH PULL					H0406943 H0407003 TFR7BX2	
H0093336	ABB CIRCUIT BREAKER				MPR9MX1		
H0222339	CIRCUIT BREAKER				MPR9MX1		
H0563803	CIRCUIT BREAKER 3P 20A				MPR9VX1		
UE699	CIRCUIT BREAKER 60A STUD TYP MANUAL					H0406943	
UE700	CIRCUIT BREAKER 40A STUD TYP MANUAL		EB9EH4X				

CLAMP

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU460765	CLAMP ASSEMBLY	FVV100MR1 PVV50M2					
AU870001	MOUNTING BAND AIR CLEANER 6.5" DIA	PVV50B2					
H0056158	CLAMP ASSEMBLY 168MM INTERNAL DIAMETER	PVV50B2					

CLAMP continued

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
H0484682	MOUNTING BAND AIR CLEANER	H0481841 H0614663 H0614665					
S5006029	MOTOR MOUNT CLAMP 97MM		EB9EH4X			H0406943 H0407003	
UC266	CLAMP SUIT UC265	PVV50M2					
UR173	CLAMP TX VALVE BULB 5/8 X 3/8		EB9EH4X				

CLIP

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU661046	RLY CLIPS FOR MY4N				MPR9MX1 MPR9VX1		

COMPRESSOR

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
652A20006	COMPRESSOR				MPR9MX1		
AU200014	COMPRESSOR WITH 2 ELECTRIC UNLOADER				MPR25MX1		
AU230806	COMPRESSOR 400VAC 50HZ 460VAC 60HZ				MPV5MX2		
H0234959	COMPRESSOR				MPR9VX1		
H0304197	COMPRESSOR ASSEMBLY				MPW5MX1		
H0428289	ELECTRIC COMPRESSOR 24V			H0433161			
H0096689	SCROLL COMPRESSOR				H0550437		

CONDENSER COIL

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU110009	CONDENSER COIL 946X203X132MM 6RW					H0235424	
AU110029	CONDENSER COIL 6R					TCF7BX2	
AU110162	CONDENSER COIL 1135MM X 635MM X 132MM 6RW				MPR25MX1		
AU110312	CONDENSER COIL 390MM X 406MM X 66MM 3RW		EC12C2 EC12C4				
AU110388	CONDENSER		EC22C4				
AU110389	CONDENSER		EC22C4SS				
AU110397	CONDENSER COIL 540MM X 381MM X 79MM 5RW MPV5				MPV5MX2 MPW5MX1		
AU110429	CONDENSER COIL 600 X 508 X 110 4RW MPF				H0550437		



CONDENSER COIL continued

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU1101020	COND COIL 610X381X64 4RW ECF6			H0433161			
H0002358	CONDENSER COIL		EPR4AX1 EPR4BX1				
H0039196	CONDENSER COIL					TCW5BX1	
H0072613	CONDENSER COIL				MPR9MX1 MPR9VX1		
H0095147	CONDENSER COIL					TCW5BX2	
H0095176	CONDENSER COIL 650MM X 381MM X 66MM 4R					H0095174	
H0204604	CONDENSER COIL		H0204590				
H0258471	CONDENSER COIL					H0269191	

CONTACTOR

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU651032	CONTACTOR 9A 3P 110VAC				MPV5MX2		
AU651047	CONTACTOR 12A 3P 24VDC				MPW5MX1		
AU651056	CONTACTOR 12A 3P 24VAC				MPR25MX1		
AU6511002	CONTACTOR 9A 110V				MPV5MX2		
AU651151	CONTACTOR 17A 24VAC 3 POLE 1NO 1NC				MPR25MX1		
AU651178	CONTACTOR 25A 24VAC				MPR25MX1		
AU651303	CONTACTOR 9A 240VAC 3 POLE 1NO 1NC				H0550437		
AU651346	CONTACTOR 12A 24VDC 3 POLE 1NO 1NC					H0407003	
AU651544	CONTACTOR				MPR9MX1 MPR9VX1		
H0060331	CONTACTOR				MPR9MX1 MPR9VX1		

CONTROLLER

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU679519	CONTROLLER ELECTRONIC 24VDC DISPLAY				MPW5MX1		H0082302
AU6811008	HEATER VALVE CONTROL MODULE		EFF5BX3				
H0150820	THERMOSTAT CONTROL KIT				H0550437		
H0611101	MICRO PLC			H0433161			

CONVERTER

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU677142	CONVERTER AC/DC IN 24VDC OUT 3A				MPW5MX1		
H0082717	240W POWER SUPPLY				MPR9MX1		
H0222338	CONVERTER				MPR9MX1 MPR9VX1		

COVER

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AS271543	TFC8 COVER ASSEMBLY					H0406943 H0407003	
H0251907	FILTER COVER, INSIDE					H0269191	
H0252200	FILTER COVER, RETURN AIR					H0269191	
H0290673	RETURN AIR FILTER PANEL ASSEMBLY 1		EFF5BX3				
S2501021	FILTER COVER		EC12I4				
S2501026	FILTER COVER		EC12H4				
S25011725	RETURN AIR FILTER COVER		EFR4BX1				
S2502024	FILTER COVER		EC22C4SS EC22H4				

DIFFUSER & LOUVRE

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU821136	LOUVRE 646MM X 136MM				H0550437		
AU821300	DIFFUSER ROUND 120MM POLYAMIDE				MPV5MX2	H0406943 H0407003 TFR7BX2	
AU821301	DIFFUSER ROUND 75MM PLASTIC		EFF4BX1		MPW5MX1		
AU821704	DIFFUSER ROUND 92MM PVC		EB9EH4X EPR4AX1 EPR4BX1			TFC6BX1	
AU821707	DIFFUSER 196MM X 83MM PLASTIC		EFR4BX1				
AU821708	LOUVRE ROUND 3" HOLE		EC12H4 EC12I4 EC22C4SS EC22H4 EFR4BX1				
UC342	DIFFUSER 500MM X 200MM OPEN AREA DOUBLE DEFLECTION				MPR25MX1		
UC901	DIFFUSER 246MM X 104MM					H0269191 H0406943 H0407003	



DIODE

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU674022	SUPPRESSOR DIODE				MPR9MX1		
AU674401	DIODE TERMINAL BLOCK				MPR9MX1 MPR9VX1		
H0283545	DIODE FOR EPR4AX1		EPR4AX1				

DRIER

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU531356	DRIER 1/2" MF				MPR9MX1 MPR9VX1		
AU531358	DRIER 5/8" MF				H0550437 MPR25MX1		
AU531411	RECEIVER DRIER 3/8" 24UNF 165MM HIGH					H0235424 TCF7BX2	
AU531415	RECEIVER DRIER 3/8" MF 193MM HIGH				MPV5MX2 MPW5MX1		
AU531422	RECEIVER DRIER WITH SIGHT GLASS 3/8" MIOR		EPR4AX1 EPR4BX1			H0095174 H0269191	

ELEMENT

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU200079	CRANKCASE HEATER 415V 75W				MPR25MX1		
AU691104	HEATER U SHAPE 1.0KW 240V 365MM BRS FIN				MPV5MX2 MPW5MX1		
AU691191	HEATER U SHAPE 2.0KW 240V 675MM SS FIN					H0407003	
AU691C041	HEATER ELEMENT 277V 2500W				MPR9MX1		
AU691C291	HEATER ELEMENT 240V 2500W				MPR9VX1		
UE272	HEATER U SHAPE 3KW 240V 975MM FIN				MPR25MX1		

END CAP

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU460707	FILTER END COVER	FVV50M1					
AU460768	END CAP	FVV100MR1 PVV50M2					
H0056157	COVER ASSEMBLY	PVV50B2					
H0133900	FILTER ACCESS PANEL, SERIES SS	H0111417					
H0482389	AIR CLEANER CAP	H0481841 H0614663 H0614665					

END PLATE

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU635446	END PLATE				MPR9MX1 MPR9VX1		

EVAPORATOR COIL

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU1201014	EVAPORATOR COIL 250MM X 228MM X 66MM 4ROW					TFF5BX1 TFF5BX2	
AU120161	EVAPORATOR COIL 990MM X 318MM X 137MM 6 RW M20A				MPR25MX1		
AU120284	EVAPORATOR COIL 610MM X 318MM X 110MM 4RW MPF				H0550437		
AU120394	EVAPORATOR COIL 864MM X 166MM X 95MM 4RW TFC8					H0406943 H0407003	
AU120480	EVAPORATOR COIL 345MM X 152MM X 79MM (EC12H2/ EC12H4)		EC12H4 EC12I4 EFR4BX1				
AU120492	EVAPORATOR COIL 380MM X 381MM X 88MM 4 RW				MPV5MX2 MPW5MX1		
AU120660	EVAPORATOR COIL 600MM X 152MM X 63MM 4RW		EC22H4				
AU120954	EVAPORATOR COIL 570MM X 152MM X 95MM 6RW					TFR7BX2	
H0070297	EVAPORATOR COIL				MPR9MX1 MPR9VX1		
H0092745	EVAPORATOR COIL 416MM X 178MM X 95MM 6 ROW		EFF5BX3				
UR145	EVAPORATOR COIL ASSEMBLY		EB9EH4X				

EVAPORATOR + HEATER COIL

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU1201012	EVAPORATOR + HEATER COIL 250MM X 190MM X 66MM		EFF4BX1				
H0032385	EVAPORATOR HEATER COIL		EPR4AX1 EPR4BX1				
H0094351	EVAPORATOR + HEATER COIL 600MM X 133MM (H0094278)					H0094278	
H0258193	COIL EVAPORATOR HEAT					H0269191	



FAN

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AS5000170	CONDENSER FAN ASSEMBLY 24V					TCF7BX2	
AS500037	SUPPLY FAN ASSEMBLY					TFR7BX2	
AU400034	FAN DECK 24V 3SPD		EC12H4 EC12I4 EC22H4 EFR4BX1				
AU400051	FAN DECK 24V 3SPEED 1		EFF5BX3				
AU4001001	FAN DECK 24V 3SPEED		EFF4BX1				
AU420063	FAN AXIAL ASSEMBLY 400MM 24VDC (EC12C4)		EC12C4				
AU420064	FAN AXIAL ASSEMBLY 400MM 12VDC (EC12C2)		EC12C2				
AU4201004	FAN AXIAL 400MM 400VAC				MPV5MX2 MPW5MX1		
AU420157	FAN AXIAL 450MM 8 BLADES				MPR9MX1 MPR9VX1		
AU420229	FAN AXIAL 300MM 3 BLADES LB					TCF7BX2 TDR7BX2	
AU420252	FAN AXIAL 400MM 9 BLADES				H0550437		
AU420277	FAN AXIAL 560MM 9 BLADES				MPR25MX1		
AU4301014	FAN DECK					TFF5BX1 TFF5BX2	
H0051777	FAN AXIAL ASSEMBLY 280MM 24VDC					TCW5BX1 TCW5BX2	
H0082201	SUPPLY AIR FAN ASSY				MPR9MX1		
H0088425	CONDENSER FAN ASSEMBLY 280MM 24V (EPR4BX1)		EPR4BX1				
H0097521	CONDENSER FAN ASSEMBLY 280MM 12V (EPR4AX1)		EPR4AX1				
H0144118	CONDENSER FAN ASSEMBLY					H0095174 H0269191	
H0192021	AXIAL BRUSHLESS FAN 24VDC DIA 305MM					H0235424	
H0207769	CONDENSER FAN ASSEMBLY		H0204590				
H0214932	FAN AXIAL ASSEMBLY 260MM 24VDC (EC22C4)		EC22C4 EC22C4SS				
H0254032	SUPPLY AIR FAN ASSY				MPR9VX1		
H0281808	FAN,ASSEMBLY,BRUSHLESS 24VDC DIA 305MM			H0433161			
H0408797	SUPPLY AIR FAN ASSEMBLY					H0406943 H0407003	
UF089	FAN DECK 24V EB9		EB9EH4X				

FILTER

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AS3505127	MEDIA MODULE ASSEMBLY	PVV50B2 PVV50M2					
AU460080	FILTER CARTRIDGE ENDURANCE FVV50B	FVV50M1					
AU460081	FILTER CARTRIDGE ENDURANCE	FVV100MR1 PVV50M2					
AU460083	FILTER CARTRIDGE ENDURANCE (EB9P4X)	PVV50B2					
AU4601005	FILTER				MPV5MX2		
AU4601020	FILTER HEPA 95% EFF 130MM X 130MM X 27MM					TFF5BX1 TFF5BX2	
AU4601021	FILTER PLEATED 30/30 130MM X 130MM X 22MM					TFF5BX1 TFF5BX2	
AU460628	FILTER CARTRIDGE PLEAT 305MM X 305MM X 50MM	PVV50B2 PVV50M2					
AU460863	FILTER 305MM X 305MM X 149MM METAL CASE (HEPA FILTER)	PVV50B2 PVV50M2					
H0082092	RETURN AIR FILTER ASSEMBLY COIL MOUNT (OPTIONAL)				MPR9MX1 MPR9VX1		
H0116836	FILTER 16 / 79ID x 206OD x 288H EN15695	H0111417					
H0602294	H13 HEPA FILTER	H0481841 H0614663 H0614665					
H0602295	F7 FILTER	H0481841 H0614663 H0614665					

FILTER ASSEMBLY

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AS2134155	RETURN AIR FILTER ASSEMBLY (STANDARD)				MPR9MX1 MPR9VX1		
AS242745	RETURN AIR FILTER ASSY				H0550437		
AS271535	RETURN AIR FILTER					H0406943 H0407003	
AS502003	RETURN AIR FILTER					H0094278	
AS503103S	RETURN AIR FILTER 477MM X 312MM M15 (STANDARD)				MPR25MX1		
MC044S	RETURN AIR FILTER ASSEMBLY					TFR7BX2	



FILTER MEDIA

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
H0028308	FILTER MEDIA				MPW5MX1		
H0044857	PLENUM RETURN AIR FILTER MEDIA		EPR4AX1 EPR4BX1				
H0093153	RETURN AIR FILTER 1		EFF5BX3				
H0251908	FILTER CLOTH					H0269191	
H0467593	RETURN AIR FILTER MEDIA					H0094278 H0552560	
H0482198	RETURN AIR FILTER MEDIA					TFR7BX2	
S2427088	RETURN AIR MEDIA				H0550437		
S2501180	RETURN AIR FILTER MEDIA		EFR4BX1				
S2501182S	EVAPORATOR FILTER MEDIA 385MM X 145MM		EC12H4 EC12I4				
S2502084	FILTER MEDIA		EC22H4				
S2715039	FILTER MEDIA FOR AS271535 ONLY					H0406943 H0407003	
S3938009	FILTER MEDIA		EFF4BX1				

FITTINGS

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU512C065	BULKHEAD FITTING O-RING 3/8"		EFR4BX1	H0433161		TCF7BX2	
AU512C066	BULKHEAD FTG O-RING 1/2"			H0433161			
AU512C067	BULKHEAD FITTING O-RING 5/8"		EFR4BX1	H0433161			
AU872310	BULKHEAD FITTING 1/2BSP X 1/4BSP					TFC6BX1	
H0122713	HOSE JOINER 5/8 X 1/2 BARB PLASTIC 2		EFF5BX3				
H0234526	BULKHEAD HOUSING, SIDE ENTRY					H0235424	
H0498827	BULKHEAD FITTING 5/8" X 3/4" MIO					H0269191	
H0498832	FITTING, ELB 1/2 MBSPP X 1/2 FBSPP					H0269191	
UC096	FTG P3 5/8 STR BRB X 1/4 MBSPT					TFF5BX1 TFF5BX2	
UR008	BULKHEAD FITTING 1/2" MF					TFR7BX2	
UR009	BULKHEAD FITTING 3/8" MF #6		EB9EH4X			H0235424 H0406943 H0407003	
UR010	BULKHEAD FITTING 3/4" MF					H0406943 H0407003 TFC6BX1	
UR011	BULKHEAD FITTING 5/8" MF #10		EB9EH4X		MPR25MX1	H0235424	

FITTINGS continued

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
UR042	PRESSURE CONTROL ADAPTOR		EB9EH4X				
UR296	BULKHEAD 1 5/8" MJIC				MPR25MX1		
UR302	UNION 1 5/8" FJIC X 1 1/2 SL				MPR25MX1		

GAS STRUT

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
H0080806	GAS STRUT				MPR9MX1 MPR9VX1		

GASKET

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
F1626010	GASKET FRESH AIR UNIT	FVV50M1					
F1626039	GASKET FRESH AIR UNIT	FVV50M1					
H0017209	GASKET DISCHARGE VALVE				MPR7MX1 MPR7MZ1		
H0017217	GASKET SUCTION VALVE				MPR7MX1 MPR7MZ1		
H0615028	SEAL GASKET CANISTER	H0481841 H0614663 H0614665					
R1626026	GASKET FVV100 INLET 200MM X 200MM 140MM DIAMETER	FVV100MR1 PVV50M2					

GAUGE

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU532330	GAUGE 63MM R134A 0 TO 2500kPa				MPR25MX1		
AU532331	GAUGE 63MM R134A 100 TO 1900 kPa				MPR25MX1		



GRILLE

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU421020	FAN GRILLE SUIT 400MM				MPV5MX2		
H0047048	CONDENSER FAN GUARD		EPR4AX1 EPR4BX1				
H0279389	FAN GUARD,ASSEMBLY			H0433161			
S2501207	GRILLE 344MM X 100MM		EC12H4 EC12I4				

HEATER

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AS271576	HEATER ASSEMBLY (BX6)					H0407003	

HEATER COIL

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU130009	HEATER COIL 864MM X 152MM X 32MM 2RW TFC8					H0406943	
AU130014	HEATER COIL 570 X 152 X 32 2RW TFR6BX2					TFR7BX2	
AU1301002	HEATER COIL 250MM X 228MM X 33MM 2ROW					TFF5BX1 TFF5BX2	
H0092744	HEATER COIL 416MM X 178MM X 32MM 2 ROW 1		EFF5BX3				
UR037	HEATER COIL 354MM X 178MM X 32MM 2RW EB9		EB9EH4X				

HOSE

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AS160182	HP FLEXIBLE HOSE ASSEMBLY				MPR25MX1		
AS317814	HOSE DISCHARGE LINE				MPR25MX1		
AS3993048	SUCTION LINE ASSY - BULKHEAD TO COMP			H0433161			
AS508426	SUCTION LINE HOSE				MPR25MX1		
AU5551001	OIL SEPARATOR HOSE			H0433161			
AU5551004	SUCTION LINE HOSE ASSEMBLY #10		EFR4BX1				
AU5551005	LIQUID LINE HOSE ASSEMBLY #6		EFR4BX1				
H0052678	FLEX HOSE #8 MOR-FTG B/ HD & STR		EPR4AX1 EPR4BX1				
H0052679	FLEX HOSE #10 MOR-FTG B/ HD & STR		EPR4AX1 EPR4BX1				

HOSEcontinued

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
H0130781	HOSE ASSEMBLY, REFRIGERANT, 795MM LONG			H0433161			
H0227302	PRESSURE SWITCH HOSE ASSEMBLY				MPW5MX1		
H0227314	DISCHARGE HOSE ASSEMBLY				MPW5MX1		
H0227316	SUCTION HOSE ASSEMBLY				MPW5MX1		
H0280095	FLEXIBLE HOSE O RING STRAIGHT #12 & #10					H0269191	
H0437200	HOSE ASSY - DISCHARGE			H0433161			
H0437203	HOSE ASSY - SUCTION			H0433161			

INLET RING

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU410902	INLET RING 105MM		EB9EH4X			H0406943 H0407003	
AU410956	INLET RING 200MM				MPV5MX2		

INTERLOCK

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU6531003	MECHANICAL INTERLOCK				MPV5MX2		
TTP5322	MECHANICAL INTERLOCK				MPR9MX1 MPR9VX1		

ISOLATION SWITCH

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU642070	SWITCH ISOLATION ROTARY 80A				MPR25MX1		
AU662410	SWITCH KEYED 20A (BX6)					H0407003	
H0023701	SWITCH 56SW420- GYCLIPSAL 4P 20A				MPW5MX1		

KEY

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU851588	KEY DOUBLE WING 5MM PIN SUIT AU851556				MPR25MX1		



Knob

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
UC022	KNOB SNOWFLAKE 6.35MM		EB9EH4X				
			EC12H4				
			EC12I4				H0094278
			EC22C4SS				H0269191
			EC22H4				TFF5BX1
			EFF4BX1				TFF5BX2
			EPR4AX1				
			EPR4BX1				
UC451	KNOB 1/4 BLACK PLASTIC 21MM DIAMETER		EC12H4				
			EC12I4				
			EC22C4SS				
			EC22H4				TDR10BX1
			EFF4BX1				TDR10BX2
			EFF5BX1				
			EPR4AX1				
			EPR4BX1				

Latch

Part No	Description	Application					
		Pressuriser	E Series	H Series	M Series	T Series	Controls
AU851556	Latch 1/4 Turn Double Wing 5mm Pin				MPR25MX1		
AU851566	Latch 1/4 Turn				H0550437		
AU851590	Toggle Clamp Rubber					TCF7BX2	
						TFR7BX2	
UC031	Fastener Assembly 1/4 Turn - Stud & Recept					H0406943	
						H0407003	
UC048	Latch Toggle Over-Centre		EB9EH4X				
			EFR4BX1				
			EPR4AX1				
			EPR4BX1				
UC310	Catch Toggle Over Centre SS	PVV50B2					
		PVV50M2					

LED

Part No	Description	Application					
		Pressuriser	E Series	H Series	M Series	T Series	Controls
AU665451	LED Green						MEW11
AU665452	LED Red						MEW11
							H0082302

LID

Part No	Description	Application					
		Pressuriser	E Series	H Series	M Series	T Series	Controls
AS231075	LID Assembly Louvre				MPR25MX1		
AS5000125	Condenser LID w/ Assembly					TCF7BX2	
AS508307	Evaporator LID				MPR25MX1		
AS5242124	LID Assembly	PVV50B2					
		PVV50M2					

LID

Part No	Description	Application					
		Pressuriser	E Series	H Series	M Series	T Series	Controls
H0134548	Remote Control Box Label Cover						H0134546
H0173253	Insulated Top Cover Assembly		EB9EH4X				
H0192013	Condenser Cover Assembly					H0235424	
H0258194	Evaporator Cover, Final Assembly					H0269191	
H0258494	Condenser Cover, Final Assembly					H0269191	
H0340232	Evaporator Cover		EFR4BX1				

Motor

Part No	Description	Application					
		Pressuriser	E Series	H Series	M Series	T Series	Controls
AU304150	Motor 0.55kW 415V 71 FL 2P	FVV100MR1					
		FVV50M1					
		PVV50M2					
AU310214	Motor 0.75kW 80P FT 4P				H0550437		
AU319037	Motor 1.85/0.55kW 100L 4/6P				MPR25MX1		
AU320C053	Motor 3450-263 27VDC D/S					TFR7BX2	
H0080329	Condenser Fan Motor				MPR9MX1		
H0133903	24V Motor W / Motor Mounting	H0111417					
H0234437	Condenser Fan Motor				MPR9VX1		
H0384821	24V DC Single Shaft Brushed Motor					H0406943	
						H0407003	
						TCF7BX2	
H0384822	Double Shaft 24V DC Brushed Motor (EB9EH4)		EB9EH4X				
H0654965	Fan Motor Assembly	H0614663					
H0654966	Fan Motor Assembly	H0614665					
		H0481841					
UE321	Motor 1.1/0.37kW 90L 4/6P D/S				MPR25MX1		
UE325	Motor 70W 24VDC Pancake	PVV50B2					

Mount

Part No	Description	Application					
		Pressuriser	E Series	H Series	M Series	T Series	Controls
AU845032	Anti Vibration Mount				MPR25MX1		
AU845248	Anti Vibration Mount				H0550437		
					MPV5MX2		
					MPW5MX1		



MOUNT continued

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
H0102227	VIB MNT SCHR35 RUBBER			H0433161			
H0103172	VIBRATION MOUNT				MPR9MX1 MPR9VX1		
UC027	EVAPORATOR MOTOR MOUNT	EB9EH4X				H0406943 H0407003	
UC028	CONDENSER MOTOR MOUNT					TCF7BX2	

NOZZLE

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
UC504	DRAIN NOZZLE 13MM		EC12H4 EC12I4 EC22C4SS EC22H4 EFF4BX1 EFF5BX3			H0406943 H0407003 TFR7BX2	

OIL SEPARATOR

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU270341	OIL SEP 3/4" 16UNF 0.37 L/ MIN			H0433161			

ORIFICE

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU521504	TX ORIFICE 2T R22 #04				MPV5MX2 MPW5MX1		
AU521505	TX ORIFICE 2T R22 #05				H0550437		
AU521508	TX ORIFICE 2T R22 #06				MPR9MX1 MPR9VX1	TFR7BX2	
AU521515	TX ORIFICE 5T R134a #04				MPR25MX1		
H0407005	THERMAL EXPANSION ORIFICE NOZZLE					H0406943 H0407003	

PIPE

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AS3993052	CHECK VALVE TO OIL SEPARATOR ASSY			H0433161			
AS3993054	DISCHARGE ASSY - BULKHEAD TO CHECK VALVE			H0433161			
AS515203	LIQUID LINE VALVE TO DRIER					TCF7BX2	
AS515204	LIQUID LINE DRIER TO RECEIVER					TCF7BX2	
AS515205	LIQUID LINE RECEIVER TO VALVE					TCF7BX2	

PIPE continued

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
H0095336	LIQUID LINE ASSEMBLY - RECEIVER DRIER OUT					H0095174	
H0095339	LIQUID LINE ASSEMBLY - RECEIVER DRIER IN					H0095174	
H0498831	DRAIN PIPE, 136L x 1/2" MBSPT x 16OD					H0269191	

PLUG

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU631451	PLUG PG9 SOL COIL 240VAC 10A				MPR25MX1		

POTENTIOMETER

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU681926	POT LINEAR 10kOHM WITH PLUG					H0269191 TFC6BX1	H0134546
H0147952	POTENTIOMETER ASSEMBLY		EFF5BX3				

PRE CLEANER

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU460725	FILTER PRE-CLEANER 186MM - STANDARD	FVV50M1					
AU460729	FILTER PRE-CLEANER 270MM - STANDARD	FVV100MR1 PVV50M2					
AU460748	CENTRIFUGAL PRE-CLEANER 2-1/2 INCH ID	H0111417					
AU460963	PRE CLEANER TS 3" INLET SMALL	PVV50B2					
H0602293	PRE CLEANER TS 2" INLET	H0481841 H0614663 H0614665					

PRESSURE SWITCH

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU523111	DUAL PRESSURE CONTROL LP AUTO HP MANUAL				MPR25MX1		
AU523112	DUAL PRESSURE CONTROL LP AUTO HP AUTO				MPR9MX1 MPR9VX1 MPV5MX2		
AU523365	LOW PRESSURE SWITCH 1/4" FF 205kPa				MPW5MX1	H0406943 H0407003 TFR7BX2	
AU523606	HP CONTROL AUTO				MPR25MX1		



PRESSURE SWITCH continued

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU523655	HIGH PRESSURE SWITCH 1/4" FF 2415kPa				MPW5MX1		
H0148597	HIGH PRESSURE SWITCH			H0433161	MPR9MX1 MPR9VX1	H0095174 H0235424 H0269191	
H0152017	LOW PRESSURE SWITCH			H0433161	MPR9MX1 MPR9VX1	H0094278 H0269191	
H0472020	HIGH PRESSURE SWITCH WITH PLUG					TCF7BX2	
UE064	HIGH / LOW PRESSURE SWITCH		EB9EH4X EPR4AX1 EPR4BX1				

PROP

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
S5000149	LID PROP					TCF7BX2	

RECEIVER

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU160C012	RECEIVER LIQUID VERT 6X18 MP				MPR9MX1 MPR9VX1		
UR022	RECEIVER 330 X 168MM 5/8" SL X 5/8" ROTALOK				MPR25MX1		

REFRIGERATION OIL

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU542026	REFRIGERATION OIL				MPR25MX1 MPR9MX1 MPR9VX1		

RELAY

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU661040	RELAY 8 PIN 24VDC 2 POLES				MPR9MX1 MPR9VX1 MPW5MX1		
AU661043	RELAY POWER FAILURE 3 PHASE				MPW5MX1		H0134546
AU661044	RELAY 24VDC 4 POLES				MPR9MX1 MPR9VX1		
AU661482	RELAY 30A 12V (EPR4AX1)		EPR4AX1				
AU661483	RELAY 20A 24V (EPR4BX1)		EPR4BX1			H0094278 H0269191	
AU661487	RELAY 50A 24VDC 1 POLE					TFR7BX2	
H0076255	RELAY 24V 40A-DIODE PROTECTED					TFF5BX1 TFF5BX2	
H0170133	PHASE DETECTION RELAY				MPR9MX1		
H0249468	PHASE DETECTION RELAY				MPR9MX1 MPR9VX1		
H0269190	RELAY FOR 24V DC			H0433161			
UE072	RELAY 24VDC 70A AUTOMOTIVE					H0406943 H0407003	

RELAY BASE

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
H0530102	9 PIN RELAY BASE			H0433161			

RESISTOR

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU674040	25VAC VARISTOR				MPR9MX1		
AU692105	RESISTOR 2 OHM 100W 1 CLIPS ADJUSTABLE					TFR7BX2	
AU692107	RESISTOR 2 OHM 100W 3 CLIPS ADJUSTABLE					H0406943 H0407003	
UE183	RESISTOR 3 OHM 50W 24V ONLY		EB9EH4X				



SEAL

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU460708	FILTER CAP RUB BAFFLE	FVV50M1					
AU460762	RUBBER BAFFLE	FVV100MR1 PVV50M2					
AU746237	HUMP STRAIGHT RUBBER 3	PVV50B2					
AU862211	SEAL RUBBER	PVV50B2 PVV50M2	EFR4BX1		MPW5MX1	H0269191	
AU862213	SEAL RUBBER		EFR4BX1		H0550437	TFR7BX2	
AU935432	FLAT NEOPRENE EXTRUSION					TCF7BX2	
BC036	SEAL CAB TO CASE 360MM X 422MM		EB9EH4X				
H0032389	SEAL CABIN - SA & RA INTERFACE MPW5MX1				MPW5MX1		
H0042481	EPR4 ROOF SEAL		EPR4AX1 EPR4BX1				
H0080812	RA / SA OPENING SEAL				MPR9MX1 MPR9VX1		
H0235090	ROOF SEAL				MPR25MX1		
H0247253	ROOF SEAL					H0269191	
S3750100	SEAL GASKET MOTOR	PVV50B2					
S3750101	SEAL GASKET CANISTER	PVV50B2					
UC265	ELBOW RUBBER 90DEG 6"	PVV50M2					

SENSOR

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU6811015	THERMOSTAT SENSOR NTC -50 TO 105°C				MPW5MX1		H0082302
AU681961	THERMOSTAT SENSOR PROBE NTC WITH LEAD				MPV5MX2		

SHAFT EXTENSION

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU872011	SHAFT EXTENSION 14MM F X 19MM M	FVV100MR1 PVV50M2					
AU872135	SHAFT EXTENSION 1/2" FEMALE X 1/2" MALE					H0406943 H0407003	

SHUNT TRIP

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU641330	SHUNT TRIP				MPR9MX1		
H0095276	SHUNT TRIP				MPR9VX1		
H0236005	SHUNT TRIP, 380-400VAC 50HZ				MPR9MX1		

SIGHT GLASS

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU533136	LIQUID MOISTURE INDICATOR				MPR9MX1 MPR9VX1		
AU533408	SIGHT GLASS				MPR25MX1		
AU533556	LMI 5/8" SOLDER				H0550437		

SOLENOID COIL

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU668134	COIL SOLENOID 24VAC				MPR25MX1		
AU668140	COIL SOLENOID 24VDC TYPE 1				MPR9MX1 MPR9VX1 MPW5MX1		

STRIKER

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
UC047	KEEPER PLATE ZP		EB9EH4X EFR4BX1				

SUPPRESSION FILTER

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU674101	SUPPRESSION FILTER				MPR9MX1		

SUPPRESSOR

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
642E058	SURGE SUPPRESSOR				MPR9MX1 MPR9VX1		



SWITCH

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU662233	ROTARY SWITCH 3 WAY						MEWI1
AU662235	SWITCH CONTACT STANDARD						H0082302 MEWI1
AU662968	SWITCH ROCKER IP68 24V 15A GREEN LED		EFR4BX1				
AU662969	SWITCH ROCKER IP68 24V 15A		EFR4BX1				
AU663004	ROTARY SWITCH FAN				MPV5MX2		
AU663095	ROTARY SWITCH OFF HI L		EB9EH4X				
AU6631001	ROTARY SWITCH MODE				MPV5MX2		
AU663118	ROTARY SWITCH 2 POSITION 45 DEGREE 1		EFF5BX3				
AU663562	ROTARY SWITCH MODE					H0269191	H0134546
AU663563	ROTARY SWITCH FAN					H0406943 H0407003 TFR7BX2	
AU663569	ROTARY SWITCH MODE					H0406943 H0407003 TFR7BX2	
H0126519	ROTARY SWITCH FAN					H0269191	
H0129836	ROTARY SWITCH FAN						H0134546
UE335	ROTARY SWITCH 3 SPEED COMPLETE WITH NUT		EC12H4 EC12I4 EC22C4SS EC22H4 EFF4BX1 EFF5BX3 EPR4AX1 EPR4BX1				

THERMOSTAT

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU681009	THERMOSTAT HOT2				MPR9MX1 MPR9VX1		
AU681020	THERMOSTAT T5 50°C SPST N/C AUTO				MPR25MX1 MPV5MX2 MPW5MX1		
AU681065	THERMOSTAT T3 80°C SPST AUTO (BX6)					H0407003	
AU6811013	THERMOSTAT HOT1 & HHS				MPR9MX1 MPR9VX1		
AU681107	THERMOSTAT RT4 19 TO 30°C						MEWI1
AU681925	THERMOSTAT 12 - 24 VDC WITH SENSOR + POT					TFR7BX2	
AU681960	THERMOSTAT DIGITAL 24V 2 STAGE				MPV5MX2		

THERMOSTAT continued

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
H0262987	THERMOSTAT INC SENSOR 12-24VDC					H0094278 H0269191 H0406943 H0407003	H0134546
UE016	THERMOSTAT DEICE STUD		EB9EH4X EC12H4 EC12I4 EC22C4SS EC22H4 EFF4BX1 EFF5BX3 EFR4BX1 EPR4AX1 EPR4BX1		MPR9MX1 MPR9VX1 MPV5MX2 MPW5MX1	H0094278 H0269191 H0406943 H0407003 TFF5BX1 TFF5BX2 TFR7BX2	

TIMER

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU653505	TIMER (3-30 SECONDS)				MPR25MX1		
AU672500	TIMER, MULTI FUNCTION 12-240V AC/DC			H0433161	MPR9MX1 MPR9VX1 MPW5MX1		

TRANSFORMER

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU666026	TRANSFORMER 415V 240V 24V 500VA				H0550437		
AU666089	TRANSFORMER 415V 24V 140VA 115W				MPR25MX1		
AU666090	TRANSFORMER 415-240V				MPV5MX2		
UE104	TRANSFORMER 415V 110V 24V 115W SCREEN				MPV5MX2		

VALVE

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AS3386351	VALVE SUCTION WITH FITTING				MPR25MX1		
AS3386352	VALVE DISCHARGE WITH FITTING				MPR25MX1		
AU200045	VALVE UNLOADER PRESSURE				MPR25MX1		
AU200061	VALVE UNLOADER ELECTRICAL				MPR25MX1		
AU517208	PCLV 5/8" MF				MPR25MX1		
AU517254	PCAV 3/8" SOLDER					H0235424 TCF7BX2	



VALVE continued

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU517256	ISOLATION VALVE				MPR9MX1 MPR9VX1		
AU517505	VALVE ACCESS 1/4" 1/8" OD SOLDER					TCF7BX2	
AU517621	VALVE CHECK 1/2SL STRAIGHT				MPW5MX1		
AU521509	TX VALVE 2T 3/8" IN 1/2" OUT 1/4" EQ R134A				H0550437 MPR9MX1 MPR9VX1 MPV5MX2 MPW5MX1	TFR7BX2	
AU521511	TX THERMOSTAT ELEM 5T				MPR25MX1		
AU521512	TX VALVE 5T ANGLE 1/2" IN 5/8" OUT R134A				MPR25MX1		
AU521923	TX VALVE 1.5T 3/8" IN 1/2" OUT 1/4" EQ		EB9EH4X				
AU521946	THERMAL EXPANSION VALVE BLOCK 2T 3/8" IN 1/2" OUT R134A		EC12H4 EC12I4 EC22C4S5 EC22H4 EFF4BX1 EFF5BX3 EFR4BX1			H0094278 H0269191	
AU522021	SOLENOID VALVE 3/8" SOLDER NC				MPR9MX1 MPR9VX1 MPW5MX1		
AU522042	SOLENOID VALVE 1/2" SOLDER NC				MPR9MX1 MPR9VX1		
AU5221004	2-PORT 5/8" ELECTRIC HEATER CONTROL VALVE 1		EFF5BX3				
AU522127	SOLENOID VALVE 200RB 5/8"				MPR25MX1		
AU527126	RELIEF VALVE 3/8" MNPT X 2.7MPa				MPR25MX1 MPR9MX1 MPR9VX1		
AU744827	VALVE WATER 16MM		EB9EH4X EFF4BX1				
H0014480	VALVE CHECK 1/2" MF			H0433161			
H0081856	TX VALVE BLK PARKER 2T R134A					TFF5BX1 TFF5BX2	
H0092214	TX VALVE BLK 1.5T R134A		EPR4AX1 EPR4BX1				
H0112397	SOL VLV 24VDC 1/2" BSP WATER					H0094278 H0269191	
H0124652	CAPPED LINE VALVE, 5/8"				H0550437		
H0407004	THERMAL EXPANSION VALVE					H0406943 H0407003	
UE057	SOLENOID VALVE 24VDC 1/4BSP WATER					H0406943 H0407003 TFF5BX1 TFF5BX2 TFR7BX2	
UR032	TX VALVE STRAINER FOR		EB9EH4X				

VIBRATION ELIMINATOR

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
H0080748	VIBRATION ELIMINATOR				MPR9MX1 MPR9VX1		
H0080749	VIBRATION ELIMINATOR				MPR9MX1 MPR9VX1		

WING NUT

PART NO	DESCRIPTION	APPLICATION					
		PRESSURISER	E SERIES	H SERIES	M SERIES	T SERIES	CONTROLS
AU460721	FILTER WING NUT	FVV50M1					

OBSOLETE PRODUCTS

DISCONTINUED PRODUCTS
SUPPORT ONLY

MODEL	PAGE
EB9PX	132 - 133
EB9P2X	132
EB9P4X	132
EB9P4XL	132
EB9PX HEPA	134 - 135
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H0316119	134
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FVV50B3	140
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EC12C4SS	146
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TCF7BX1	174
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TCF8BX1	176
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TFC8	188-189
TFC8BX1	188
TFC8BX2	188



DOZER



DRAGLINE & SHOVEL



DRILL



EXCAVATOR



FORKLIFT &
TELEHANDLERS



OVERHEAD CRANE



RAIL SPECIAL
VEHICLE



TRUCK



UNDERGROUND
EQUIPMENT



WHEEL LOADER



EB9PX

PRESSURISER

EB9P2X

Fresh Air Pressuriser

EB9P4X

Fresh Air Pressuriser

EB9P4XL

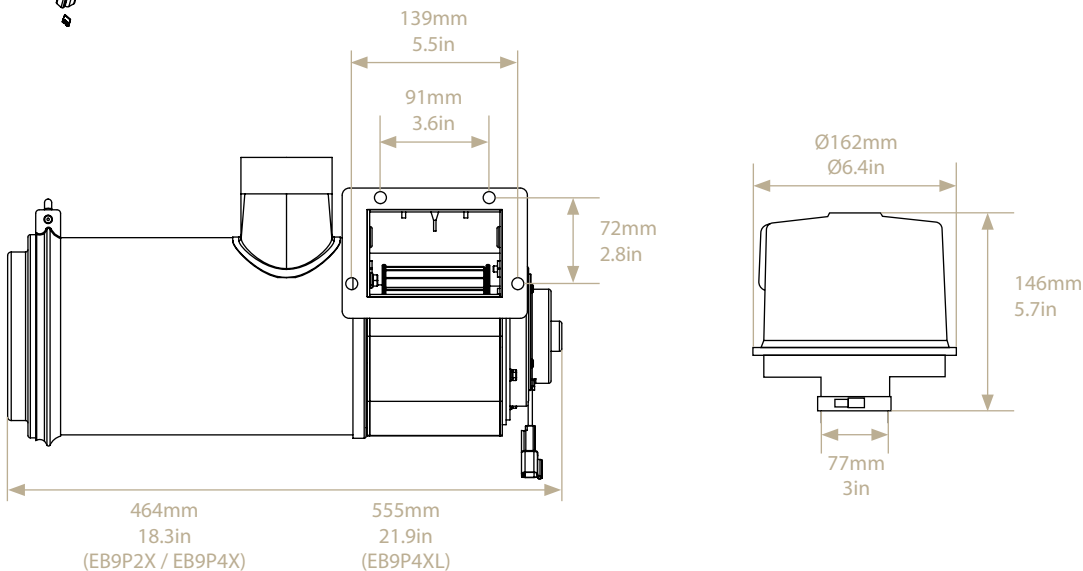
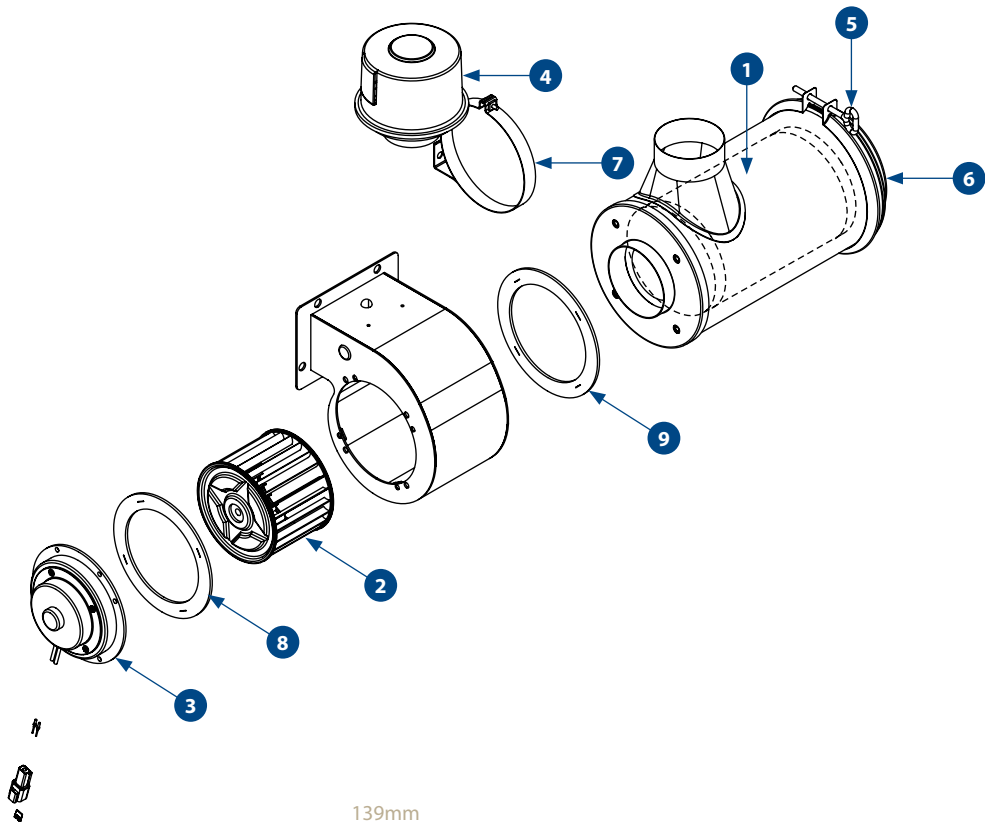
Fresh Air Pressuriser



OBSOLETE
SUPPORT ONLY

AIR FLOW
31-35 l/s
64 CFM

POWER SUPPLY
12 VDC
24 VDC



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU460083	FILTER CARTRIDGE ENDURANCE	1
AU460082	FILTER CARTRIDGE ENDURANCE (EB9P4XL)	1
Note: Sites which have both EB9P4 and EB9P4X can use KNHV80005 to suit both unit		
2 AU410337	BLOWER 120D x 89W x 5/8 COUNTER CLOCKWISE SINGLE INLET	1
3 UE327	MOTOR 80W 12V FOR EB9P2X	1
H0175266	MOTOR 70W 24V ASSEMBLY FOR EB9P4X & EB9P4XL	1
4 AU460963	PRE CLEANER TS 3" INLET SMALL	1
5 H0056158	CLAMP ASSEMBLY 168MM INTERNAL DIAMETER	1
6 H0056157	COVER ASSEMBLY	1
7 AU870001	MOUNTING BAND AIR CLEANER 6.5" DIA	1
8 S3750100	SEAL GASKET MOTOR	2
9 S3750101	SEAL GASKET CANISTER	3

SPECIFICATIONS

	METRIC	IMPERIAL
Fan Speeds	1	1
Air Flow	31 - 35 l/s	65 CFM
Power Supply	12VDC / 24VDC	12VDC / 24VDC
Current Draw	6A / 3A	6A / 3A
Weight (nominal)	8.0 Kg	17.6 lbs
Technical Manual Reference	SM496-5065	SM496-5065
Dimension EB9P2X / EB9P4x (L X W X H)	464mm X 364mm X 192mm	18.3in X 14.3in X 7.6in
Dimension EB9P4XL (L X W X H)	555mm X 364mm X 192mm	21.9in X 14.3in X 7.6in

MAINTENANCE

MONTHLY / 300 HOURS

AU460083	FILTER CARTRIDGE ENDURANCE (EB9P4X)
AU460082	FILTER CARTRIDGE ENDURANCE (EB9P4XL)
*KNHV80005	FILTER KIT for old EP9P models

ANNUAL / 3,600 HOURS

UE327	MOTOR 80W 12V FOR EB9P2X
H0175266	MOTOR 70W 24V ASSEMBLY FOR EB9P4X & EB9P4XL
S3750100	SEAL GASKET MOTOR

3 YEARS / 10,800 HOURS

AU410337	BLOWER 120D X 89W X 5/8 CCW SI
AU460963	PRE CLEANER TS 3" INLET SMALL

H13 HEPA FILTRATION OPTION

PART NO.	DESCRIPTION
PART NO.	H0202671 (for EB9P2X & EB9P4X)
HEPA GRADE	H13
TEST STANDARD	EN 1822 or equivalent
FILTRATION EFFICIENCY	*99.95% for particles diameter 0.3 µm
FILTER DIMENSION	138mm OD x 292 mm

*On qualified cabins

COMPANION ITEMS

PART NO.	DESCRIPTION
AU682070 KIT500001	AIR FLOW AND MONITORING SWITCH AIR FLOW SWITCH DUCT SUITS
H0552762 H0552763 H0552775 H0548482	INTERNAL SENSOR, INCLUDING SOFTWARE EXTERNAL SENSOR, INCLUDING SOFTWARE DISPLAY WITH SOFTWARE, RS485-CAN WIRING HARNESS,AIR QUALITY, MAIN CAB



DOZER



DRAGLINE & SHOVEL



DRILL



EXCAVATOR



FORKLIFT &
TELEHANDLERS



OVERHEAD CRANE



RAIL SPECIAL
VEHICLE



TRUCK



UNDERGROUND
EQUIPMENT



WHEEL LOADER



EB9PX HEPA

PRESSURISER

H0316118

HEPA Fresh Air Pressuriser

H0316119

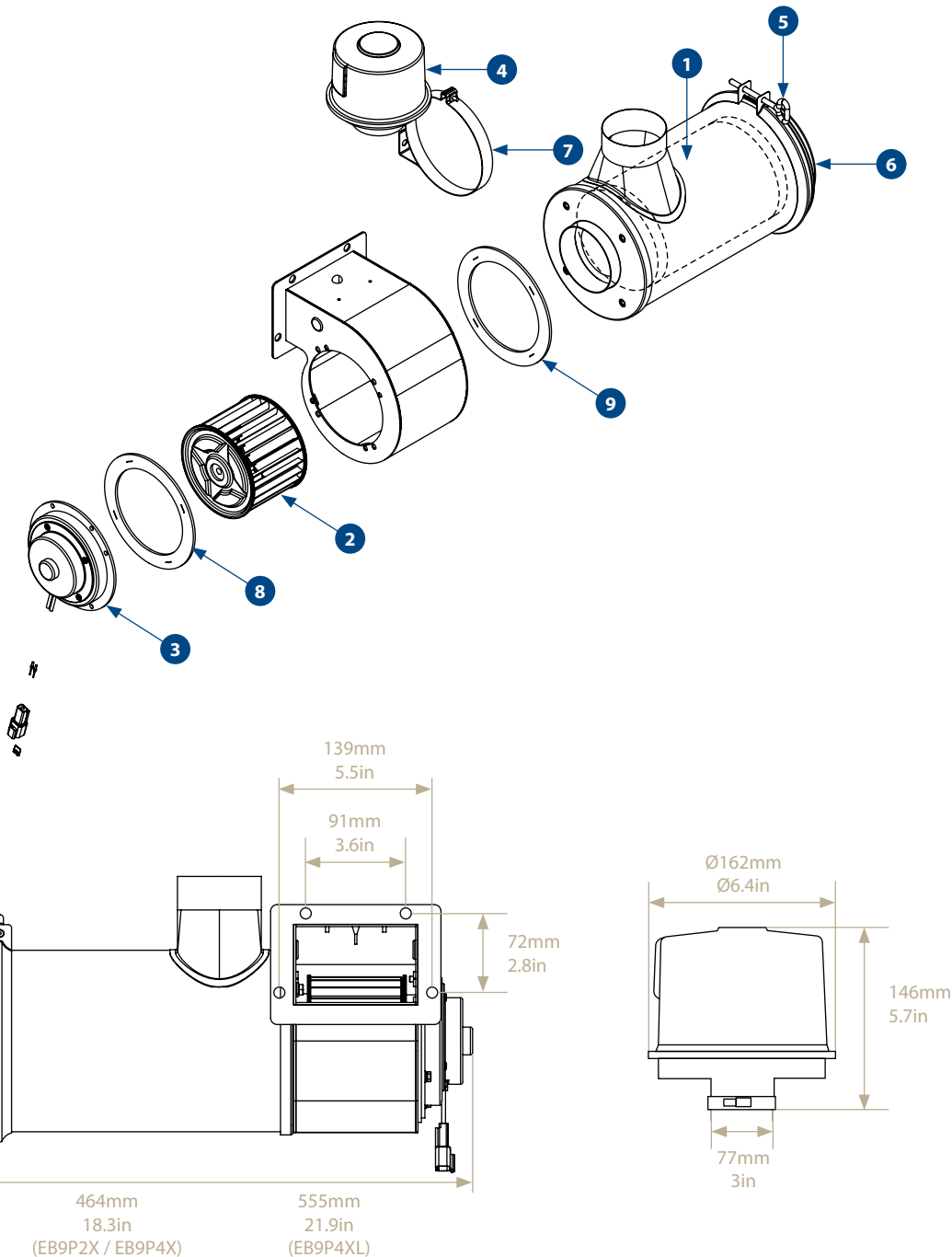
HEPA Fresh Air Pressuriser

AIR FLOW
22 l/s
42 CFM

POWER SUPPLY
12 VDC
24 VDC



OBSOLETE
SUPPORT ONLY



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 H0202671	H13 HEPA FILTER	1
2 AU410337	BLOWER 120D x 89W x 5/8 COUNTER CLOCKWISE SINGLE INLET	1
3 UE327 H0175266	MOTOR 80W 12V FOR H0316119 MOTOR 70W 24V FOR H0316118	1 1
4 AU460963	PRE CLEANER TS 3" INLET SMALL	1
5 H0056158	CLAMP ASSEMBLY 168MM INTERNAL DIAMETER	1
6 H0056157	COVER ASSEMBLY	1
7 AU870001	MOUNTING BAND AIR CLEANER 6.5" DIA	1
8 S3750100	SEAL GASKET MOTOR	2
9 S3750101	SEAL GASKET CANISTER	3

WHY HEPA FILTER?

BREATHE EASIER WITH THE SIGMA HEPA FILTER

The Workplace Health & Safety (WHS) and Mine Safety & Health Administration (MSHA) solution for dust saturated atmospheres and harmful toxic working environments.

Ensuring cabin air is safe to breathe and free from airborne contaminants including pesticide, asbestos, silica dust, fine coal dust and diesel particulate matter. To ensure risk for the coal mine operators is at an acceptable level.

H13 HEPA FILTER

PART NO.	DESCRIPTION
PART NO.	H0202671
HEPA GRADE	H13
TEST STANDARD	EN 1822 or equivalent
FILTRATION EFFICIENCY	*99.95% for particles diameter 0.3 µm
FILTER DIMENSION	138mm OD x 292 mm

*On qualified cabins

SPECIFICATIONS

	METRIC	IMPERIAL
Fan Speeds	1	1
Air Flow	22 l/s	47 CFM
Power Supply	12VDC / 24VDC	12VDC / 24VDC
Current Draw	6A / 3A	6A / 3A
Weight (nominal)	8.0 Kg	17.6 lbs
Technical Manual Reference	SM496-5065	SM496-5065
Dimension (L X W X H)	464mm X 364mm X 192mm	18.3in X 14.3in X 7.6in

MAINTENANCE

MONTHLY / 300 HOURS

H0202671 H13 HEPA FILTER

ANNUAL / 3,600 HOURS

UE327 MOTOR 80W 12V FOR H0316119
H0175266 MOTOR 70W 24V ASSEMBLY FOR H0316118

3 YEARS / 10,800 HOURS

AU410337 BLOWER 120D X 89W X 5/8 CCW SI
AU460963 PRE CLEANER TS 3" INLET SMALL

COMPANION ITEMS

PART NO.	DESCRIPTION
AU682070 KIT500001	AIR FLOW AND MONITORING SWITCH AIR FLOW SWITCH DUCT SUITS
H0552762 H0552763 H0552775 H0552778 H0548482	INTERNAL SENSOR, INCLUDING SOFTWARE EXTERNAL SENSOR, INCLUDING SOFTWARE DISPLAY WITH SOFTWARE, RS485-CAN CONTROLLER, AIR QUALITY WIRING HARNESS,AIR QUALITY, MAIN CAB



DOZER



DRAGLINE & SHOVEL



DRILL



EXCAVATOR



FORKLIFT &
TELEHANDLERS



OVERHEAD CRANE



RAIL SPECIAL
VEHICLE



TRUCK



UNDERGROUND
EQUIPMENT



WHEEL LOADER



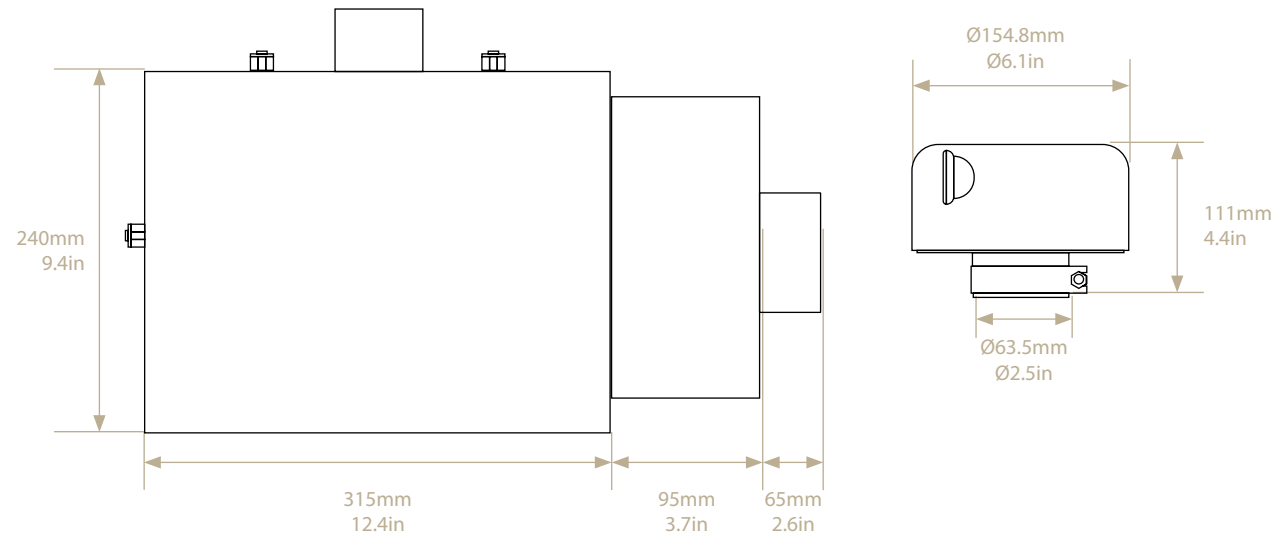
FPS55

PRESSURISER

H0111416
Compact HEPA Filtration Pressuriser System

AIR FLOW
22 l/s
42 CFM

POWER SUPPLY
12VDC
24VDC



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 H0116836	FILTER 16 / 79ID x 206OD x 288H EN15695	1
2 AU460748	CENTRIFUGAL PRE-CLEANER	1
3 H0133904	12V MOTOR W / MOTOR MOUNTING	1

SPECIFICATIONS

	METRIC	IMPERIAL
Fan Speeds	1	1
Air Flow	22 l/s	47 CFM
Power Supply	12VDC / 24VDC	12VDC / 24VDC
Current Draw	3A / 1.6A	3A / 1.6A
Weight (nominal)	20.0 Kg	44.0 lbs
Dimension (L X W X H)	411mm X 247mm X 370 mm	16.18in X 9.75in X 14.57in

WHY HEPA FILTER?

BREATHE EASIER WITH THE SIGMA HEPA FILTER

The Workplace Health & Safety (WHS) and Mine Safety & Health Administration (MSHA) solution for dust saturated atmospheres and harmful toxic working environments.

Ensuring cabin air is safe to breathe and free from airborne contaminants including pesticide, asbestos, silica dust, fine coal dust and diesel particulate matter. To ensure risk for the coal mine operators is at an acceptable level.

MAINTENANCE

MONTHLY / 300 HOURS

H0116835	FILTER 16 / 79ID X 206OD X 288 H
H0116836	FILTER 16 / 79ID X 206OD X 288 H EN15695

3 YEARS / 10,800 HOURS

H0133904	12V MOTOR W / MOTOR MOUNTING
AU460748	CENTRIFUGAL PRE-CLEANER

H13 HEPA FILTER

PART NO.	DESCRIPTION
PART NO.	H0116836
HEPA GRADE	H13
FILTRATION EFFICIENCY	*99.95% for particles diameter 0.3 µm
FILTER DIMENSION	206 mm OD x 288 mm

*On qualified cabins

COMPANION ITEMS

PART NO.	DESCRIPTION
H0133905	3 Inch Inlet Adaptor
KNHV90073	Generic site install kit
AU682070 KIT500001	AIR FLOW AND MONITORING SWITCH AIR FLOW SWITCH DUCT SUITS
H0552762 H0552763 H0552775 H0548482	INTERNAL SENSOR, INCLUDING SOFTWARE EXTERNAL SENSOR, INCLUDING SOFTWARE DISPLAY WITH SOFTWARE, RS485-CAN WIRING HARNESS,AIR QUALITY, MAIN CAB



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EQUIPMENT



WHEEL LOADER



FPS955

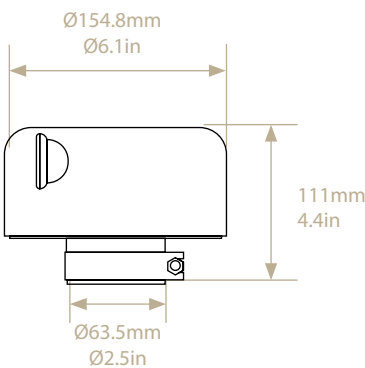
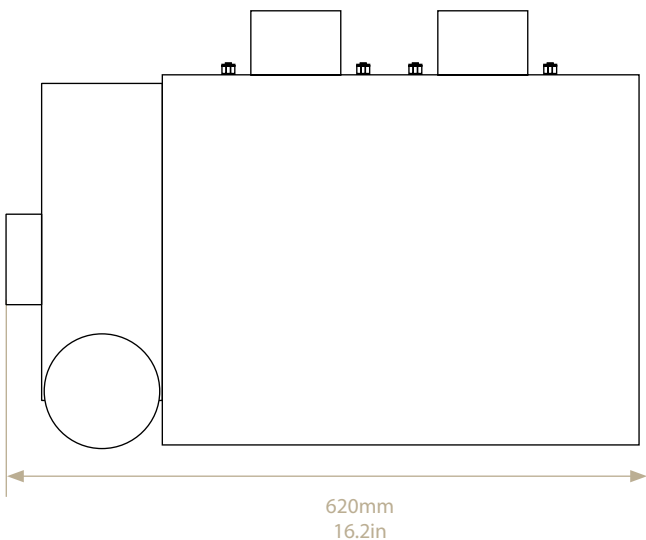
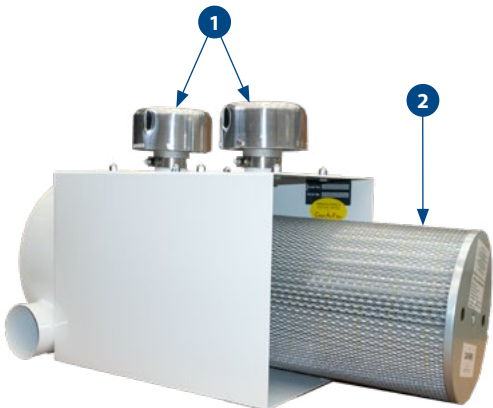
PRESSURISER

H0111418

Compact HEPA Filtration Pressuriser System
FPS955 220 VAC

AIR FLOW
70 l/s
150 CFM

POWER SUPPLY
220 VAC



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU460748	CENTRIFUGAL PRE-CLEANER 2-1/2 INCH ID	2
2 H0116837	FILTER 16/87ID X 273OB X 417H (H13 GRADE)	1

SPECIFICATIONS

	METRIC	IMPERIAL
Fan Speeds	1	1
Air Flow	70 l/s	150 CFM
Power Supply	220 VAC	220 VAC
Weight (nominal)	40.0 Kg	88.0 lbs
Dimension (L X W X H)	620mm X 680mm X 400 mm	24.4in X 26.8in X 15.7in

WHY HEPA FILTER?

BREATHE EASIER WITH THE SIGMA HEPA FILTER

The Workplace Health & Safety (WHS) and Mine Safety & Health Administration (MSHA) solution for dust saturated atmospheres and harmful toxic working environments.

Ensuring cabin air is safe to breathe and free from airborne contaminants including pesticide, asbestos, silica dust, fine coal dust and diesel particulate matter. To ensure risk for the coal mine operators is at an acceptable level.

MAINTENANCE

MONTHLY / 300 HOURS

H0116837	FILTER 16 / 87ID X 273OD X 417H (H13 GRADE)
----------	---

3 YEARS / 10,800 HOURS

H0133898	220 V MOTOR AND MOUNTING PLATE
AU460748	CENTRIFUGAL PRE-CLEANER

H13 HEPA FILTER

PART NO.	DESCRIPTION
PART NO.	H0116837
HEPA GRADE	H13
FILTRATION EFFICIENCY	*99.95% for particles diameter 0.3 µm
FILTER DIMENSION	273mm OD x 417 mm

*On qualified cabins

COMPANION ITEMS

PART NO.	DESCRIPTION
H0133905	3 Inch Inlet Adaptor
AU682070 KIT500001	AIR FLOW AND MONITORING SWITCH AIR FLOW SWITCH DUCT SUITS
H0552762 H0552763 H0552775 H0548482	INTERNAL SENSOR, INCLUDING SOFTWARE EXTERNAL SENSOR, INCLUDING SOFTWARE DISPLAY WITH SOFTWARE, RS485-CAN WIRING HARNESS,AIR QUALITY, MAIN CAB

**FVV50B**

PRESSURISER

**FVV50B4**

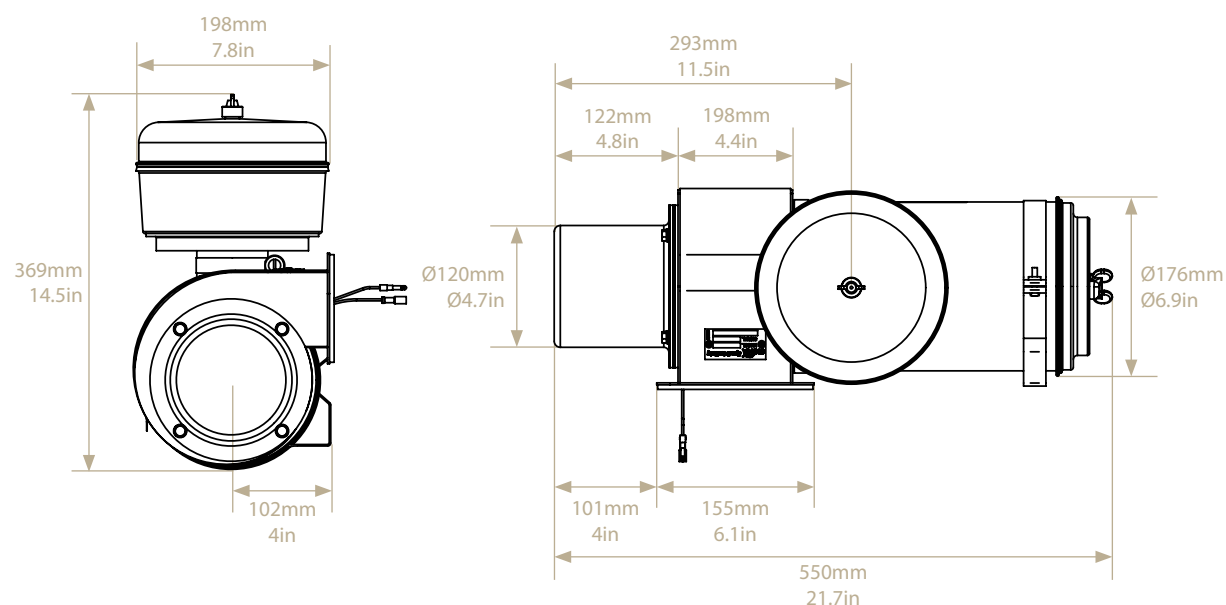
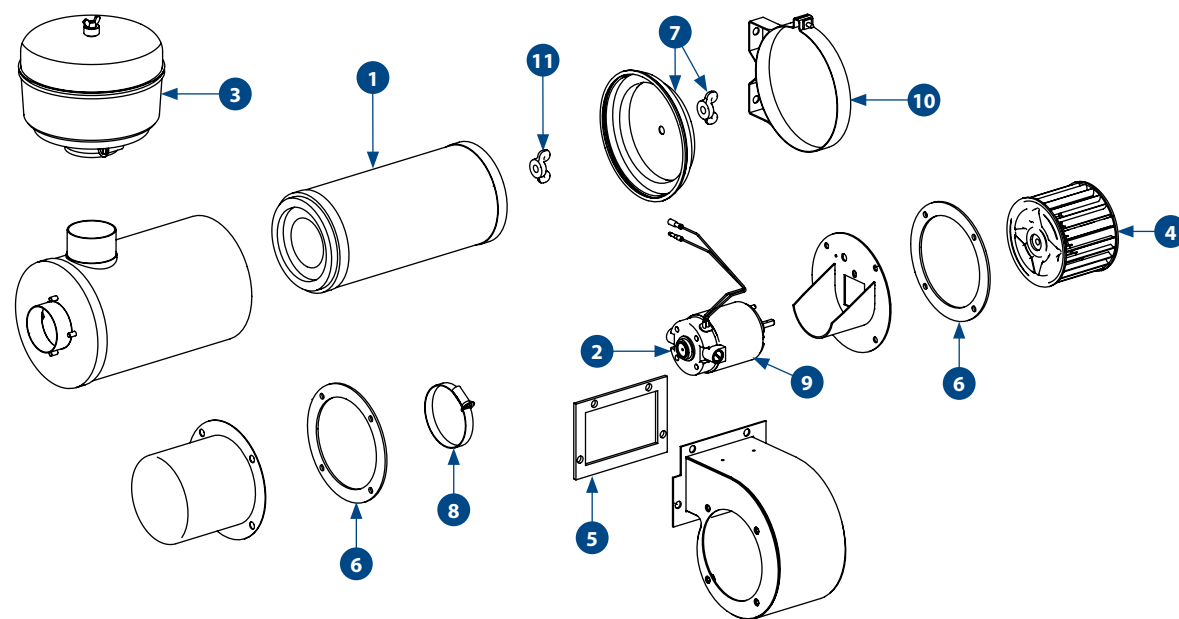
Fresh Air Pressuriser
(Left hand version)



OBSOLETE
SUPPORT ONLY



Fresh Air Pressuriser
(Right hand version)



SPARE PARTS

PART NO.	DESCRIPTION	QTY	
1	AU460080	FILTER CARTRIDGE ENDURANCE FVV50B	1
2	AU320028	MOTOR BRUSH KIT - ASSEMBLY + HOLDER	1
3	AU460725	FILTER PRE-CLEANER 186MM - STANDARD	1
4	AU410605	BLOWER 120D x 89W x 5/16 SINGLE INLET	1
5	AU861071	SEAL FRESH AIR 153MM X 160MM TDR6	1
6	AU861072	GASKET FRESH AIR FAN 160MM	2
7	AU460709	FILTER END CAP WITH WING NUT	1
8	AU553626	CLAMP	1
9	AU320C007	MOTOR SINGLE SHAFT	1
10	AU870001	MOUNTING BAND AIR CLEANER 6.5" DIA	1
11	AU460721	FILTER WING NUT	1

SPECIFICATIONS

	METRIC	IMPERIAL
Fan Speeds	1	1
Air Flow	30 l/s	64 CFM
Power Supply	24 VDC	24 VDC
Current Draw	3A	3A
Weight (nominal)	20.0 Kg	44.0 lbs
Dimension (L X W X H)	550mm X 200mm X 357 mm	21.7in X 7.9in X 14.1in

MAINTENANCE

MONTHLY / 300 HOURS

AU460080 FILTER CARTRIDGE ENDURANCE FVV50B

6 MONTHS / 1,800 HOURS

AU320028	MOTOR BRUSH KIT - ASSEMBLY + HOLDER
----------	-------------------------------------

ANNUAL / 3,600 HOURS

AU320C007 MOTOR SINGLE SHAFT

3 YEARS / 10,800 HOURS

AU460725	FILTER PRE-CLEANER 186MM - STANDARD
AU410605	BLOWER 120D x 89W x 5/16 CLOCKWISE SINGLE INLET

COMPANION ITEMS

PART NO.	DESCRIPTION
AU460964	Pre-Cleaner 2.5" Inlet Small
AU682070 KIT500001	AIR FLOW AND MONITORING SWITCH AIR FLOW SWITCH DUCT SUITS
H0552762 H0552763 H0552775 H0548482	INTERNAL SENSOR, INCLUDING SOFTWARE EXTERNAL SENSOR, INCLUDING SOFTWARE DISPLAY WITH SOFTWARE, RS485-CAN WIRING HARNESS AIR QUALITY, MAIN CAB



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EQUIPMENT



WHEEL LOADER



FVV80

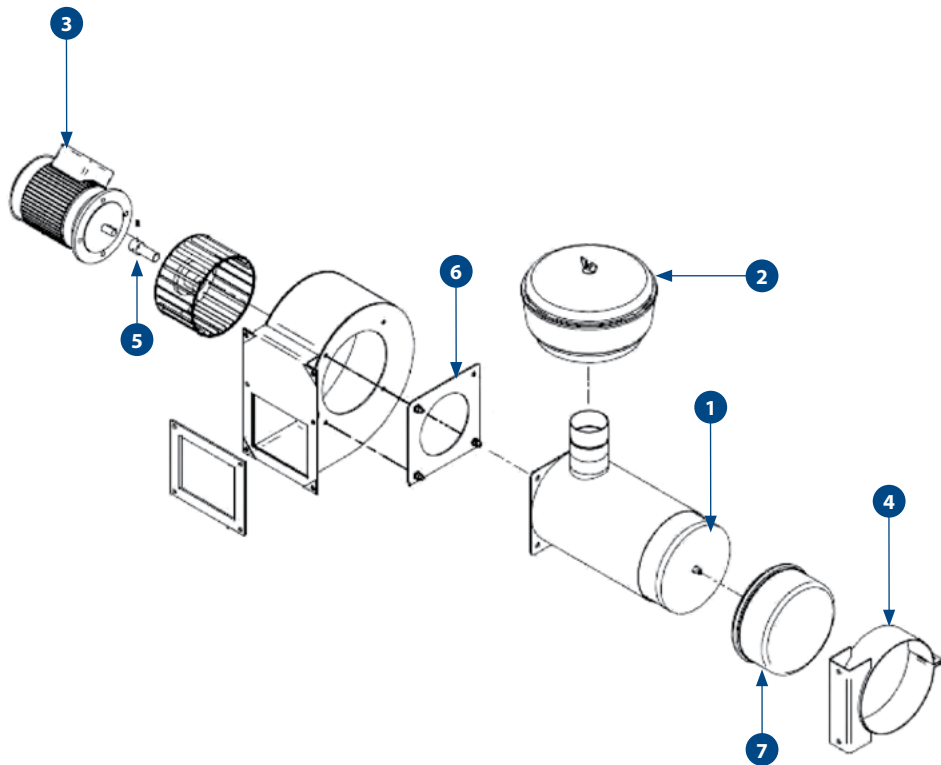
PRESSURISER

FVV80MR1

Fresh Air Pressuriser 80 l/s 415 VAC

AIR FLOW
80 l/s
170 CFM

POWER SUPPLY
415 VAC



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1	AU460734 FILTER ELEMENT SUIT FVV80 & FVV100	1
2	AU460728 FILTER PRE-CLEANER 186MM FULL VIEW	1
3	AU304150 MOTOR 0.55KW 415V 71 FL 2P	1
4	AS162611 FILTER SUPPORT CLAMP ASSEMBLY	1
5	AU872011 SHAFT EXTENSION 14MM F X 19MM M	1
6	R1626026 GASKET FVV100 INLET 200MM X 200MM 140MM DIAMETER	1
7	AU460768 END CAP AU460762 RUBBER BAFFLE	1 1

SPECIFICATIONS

	METRIC	IMPERIAL
Fan Speeds	1	1
Air Flow	80 l/s	170 CFM
Power Supply	415 VAC	415 VAC
Current Draw	1.3A	1.3A
Weight (nominal)	40.0 Kg	88.2.4 lbs
Dimension (L X W X H)	724mm X 333mm X 495mm	28.5in X 13.1in X 19.5in

MAINTENANCE

MONTHLY / 300 HOURS

AU460734	FILTER ELEMENT SUIT FVV80 & FVV100
AU460081	FILTER CARTRIDGE ENDURANCE (FOR UPGRADED UNIT)
H0174977	HEPA CARTRIDGE (FOR UPGRADED UNIT)

3 YEARS / 10,800 HOURS

AU460728	FILTER PRE-CLEANER 186MM FULL VIEW
AU410525	BLOWER 178D X 76W X 19MM CCW SINGLE INLET

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.

H13 HEPA FILTRATION OPTION

PART NO.	DESCRIPTION
PART NO.	H0174977
HEPA GRADE	H13
TEST STANDARD	EN 1822 or equivalent
FILTRATION EFFICIENCY	*99.95% for particles diameter 0.3 µm
FILTER DIMENSION	152mm OD x 305 mm

* On qualified cabins

COMPANION ITEMS

PART NO.	DESCRIPTION
AU460964	PRE-CLEANER TS 2.5" INLET SMALL (OLD VERSION)
AU682070 KIT500001	AIR FLOW AND MONITORING SWITCH AIR FLOW SWITCH DUCT SUITS
H0552762 H0552763 H0552775 H0548482	INTERNAL SENSOR, INCLUDING SOFTWARE EXTERNAL SENSOR, INCLUDING SOFTWARE DISPLAY WITH SOFTWARE, RS485-CAN WIRING HARNESS,AIR QUALITY, MAIN CAB



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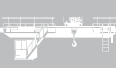
DRILL



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OVERHEAD CRANE



RAIL SPECIAL
VEHICLE



TRUCK



UNDERGROUND
EQUIPMENT



WHEEL LOADER



EB9E

ROOFTOP EVAPORATOR

EB9EH2X
Rooftop Evaporator 5kW 12V with Heating
EB9EH4XSS
Rooftop Evaporator 5kW 24V with Heating
Stainless Steel Case

**COOLING**
5.0 kW
17060 BTU

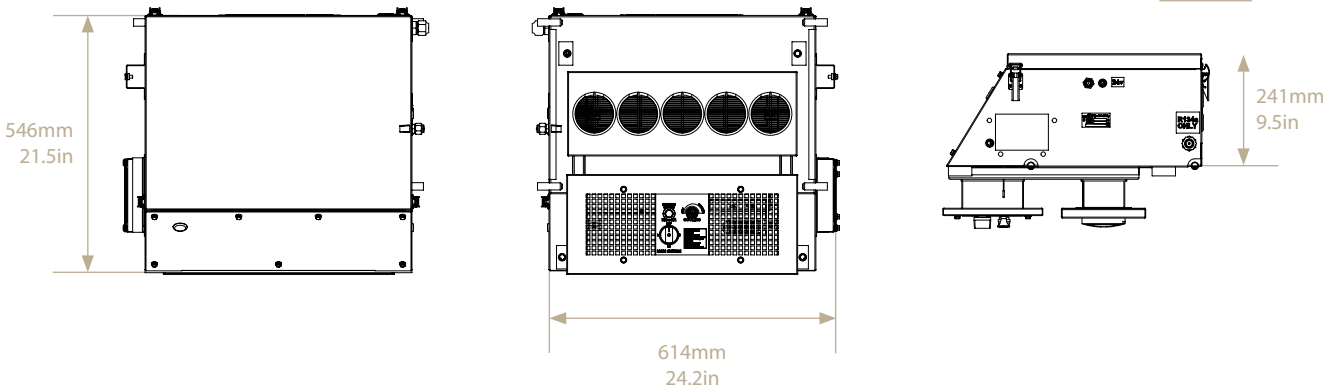
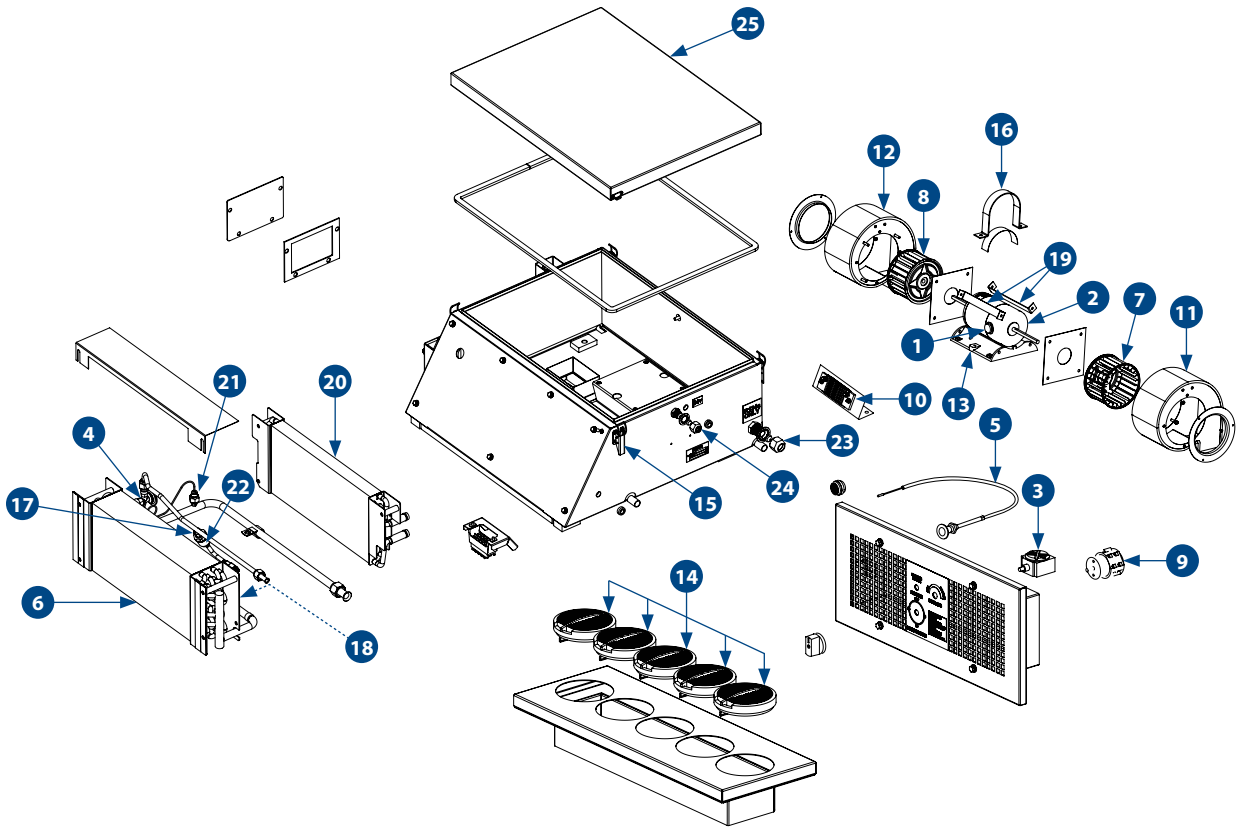
**HEATING**
4.6 kW
15695 BTU

**POWER SUPPLY**
12V / 24V

**AIR FLOW**
130 l/s
275 CFM



OBSOLETE
SUPPORT ONLY



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 H0393309	MOTOR BRUSH 24V (EB9EH4) <i>Previously AU320621 for UE023</i>	2
2 H0384822	MOTOR 24VDC D/S (EB9EH4) <i>Previously UE023</i>	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 UR145	EVAPORATOR COIL ASSEMBLY <i>Previously UR036</i>	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 UE183	RESISTOR 3 OHM 50W 24V ONLY <i>Previously UE185</i>	1
11 UF040	HOUSING SUPPLY AIR FAN CCW	1
12 UF041	HOUSING SUPPLY AIR FAN CW	1
13 UC027	EVAPORATOR MOTOR MOUNT	1
14 AU821704	DIFFUSER ROUND 92MM PVC	5
15 UC048	LATCH TOGGLE OVER-CENTRE	4
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
20 UR037	HEATER COIL 354MM X 178MM X 32MM 2RW EB9	1
21 AU517502	VALVE ACCESS 1/4" 1/4" & 3/8"OD SOLDER	1
22 UE064	DPC 1/4" MF HIGH PRESSURE 2206kPa LOW PRESSURE 196kPa	1
23 UR011	BULKHEAD FITTING 5/8" MF #10	1
24 UR009	BULKHEAD FITTING 3/8" MF #6	1
25 H0173253	INSULATED TOP COVER ASSEMBLY	1
UR032	TX VALVE STRAINER FOR AU521923	1
UF034	INLET RING 103.5MM	1
UE700	CIRCUIT BREAKER 40A STUD TYP MANUAL	1
AU744827	VALVE WATER 16MM	1
UF089	FAN DECK 24V EB9	1
BC036	SEAL CAB TO CASE 360MM X 422MM	1
UC047	KEEPER PLATE ZP	4
UC022	KNOB SNOWFLAKE 6.35MM	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	24VDC / 12VDC	24VDC / 12VDC
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"	546mm X 614mm X 241mm	21.5in X 24.5in X 9.5in

MAINTENANCE

6 MONTHS / 2,500 HOURS

UE048	BRUSH MOTOR 12VDC EACH (EB9EH2)
H0393309	BRUSH MOTOR 24VDC EACH (EB9EH4)

ANNUAL / 5,000 HOURS

UE022	MOTOR 12VDC D/S (EB9EH2)
H0384822	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

COMPANION ITEMS

PART NO.	DESCRIPTION
EB9C4X	Electric Condenser
EB9P4X	Fresh Air Pressuriser
H0404763	Hydraulic Driven Compressor 150 (Vertical)
AU2961001	Electric Compressor
AU110388	Radiator Condenser
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
KNHV80001	Installation Kits
KNHV80011	Installation Kits



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EQUIPMENT



WHEEL LOADER



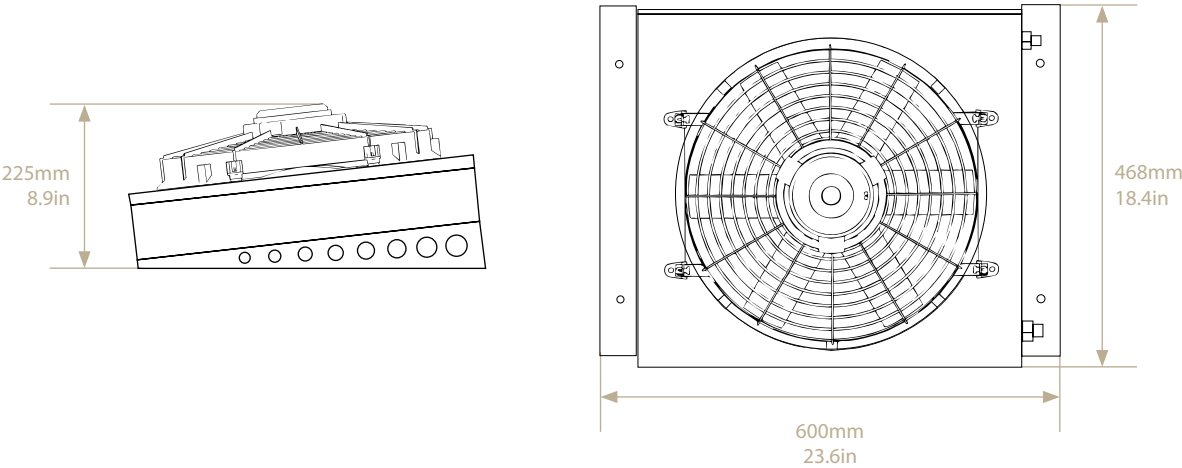
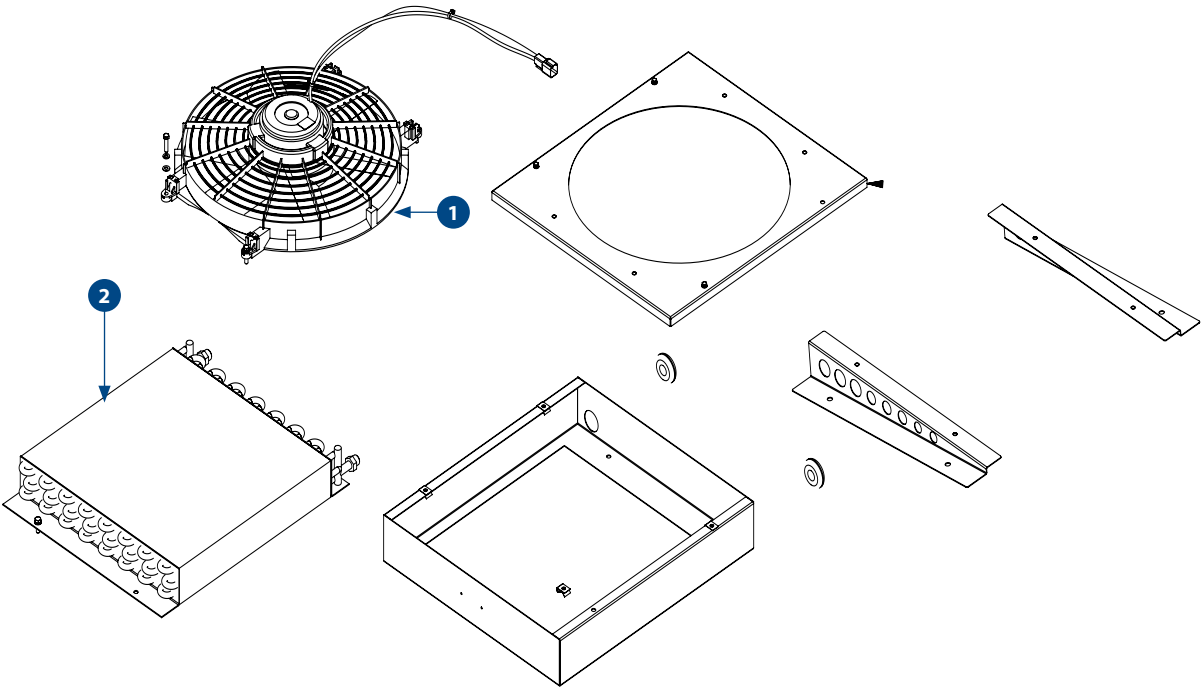
EC12C

ROOFTOP CONDENSER

EC12C4SS
Remote Condenser 4kW 24V (Stainless Steel)

 **COOLING**
4.0 kW
13648 BTU

 **POWER SUPPLY**
24 VDC



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU420063	FAN AXIAL ASSEMBLY 400MM 24VDC	1
2 AU110316	CONDENSER COIL 390X406X66 3RW	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	4.0 kW	13648 BTU
Fan Speeds	1	1
Power Supply	24VDC	24VDC
Current Draw	10 A / 20 A	10 A / 20 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
L X W X H Dimension	600mm X 468mm X 225mm	23.6in X 18.4in X 8.9in

MAINTENANCE

ANNUAL / 5,000 HOURS

AU420063	FAN AXIAL ASSEMBLY 400MM 24VDC
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COMPANION ITEMS

PART NO.	DESCRIPTION
EC1214	Internal Wall Evaporator
EC12H4	Hood Liner Evaporator
EFF4BX1	Evaporator
EB9P4X	Pressuriser
HDC150	Hydraulic Compressor
AU2961001	Electric Compressor 24V
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



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EQUIPMENT



WHEEL LOADER



EC12H

ROOFTOP EVAPORATOR

EC12H2

Ceiling Mount Evaporator 12 VDC

EC12H4SS

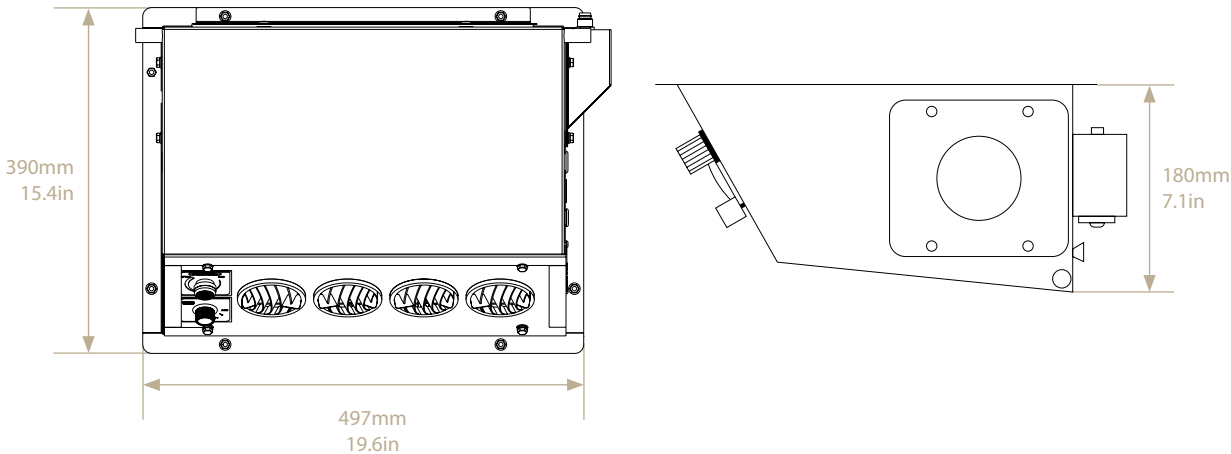
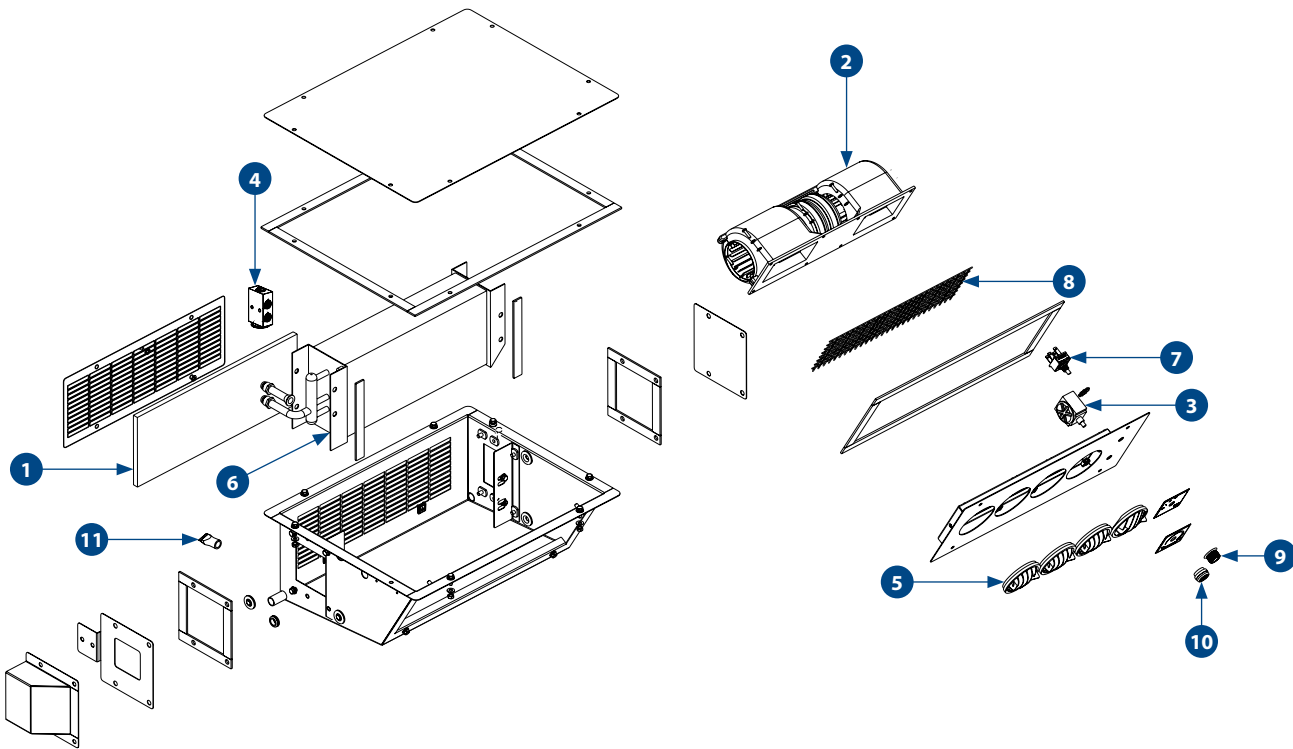
Ceiling Mount Evaporator (Stainless Steel) 24 VDC

**COOLING**
4.0 kW
13648 BTU

**HEATING (OPTION)**
3.5 kW
11942 BTU

**POWER SUPPLY**
12 VDC
24 VDC

**AIR FLOW**
110 l/s
233 CFM



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)	1
7 UE335	ROTARY SWITCH 3-SPEED C/W NUT	1
8 S2501207	GRILLE 344MM X 100MM	1
9 UC451	KNOB 1/4 BLACK PLASTIC 21MM DIAMETER	1
10 UC022	KNOB SNOWFLAKE 6.35MM	1
11 UC504	DRAIN NOZZLE 13MM	2

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	12VDC / 24VDC	12VDC / 24VDC
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	497mm X 390mm X 180mm	19.6in X 15.4in 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

COMPANION ITEMS

PART NO.	DESCRIPTION
EC12C4	Electric Condenser 24V
EB9P4X	Pressuriser
H0404763	Hydraulic Driven Compressor 150 (Vertical)
H0428289	Electric Compressor 24V
AU110312	Radiator Condenser
AU110316	Radiator Condenser
AU110388	Radiator Condenser
AU270311	Compressor UP150 2A 24V VMO 132 OD PAG
AU270312	Compressor UP150 1B 24V VMO 135 OD PAG
KIT25014	Heater Kit
AU270008	Engine Driven Compressor
AU270007	Engine Driven Compressor
EC12C2	Electric Condenser 12 V
EC12C4	Electric Condenser 24 V



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UNDERGROUND
EQUIPMENT



WHEEL LOADER



EC12I

INTERNAL EVAPORATOR

EC12I2
Internal Wall Mount Evaporator 12V

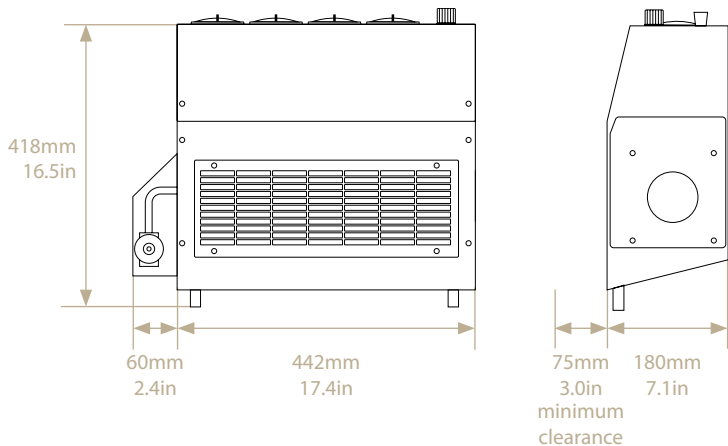
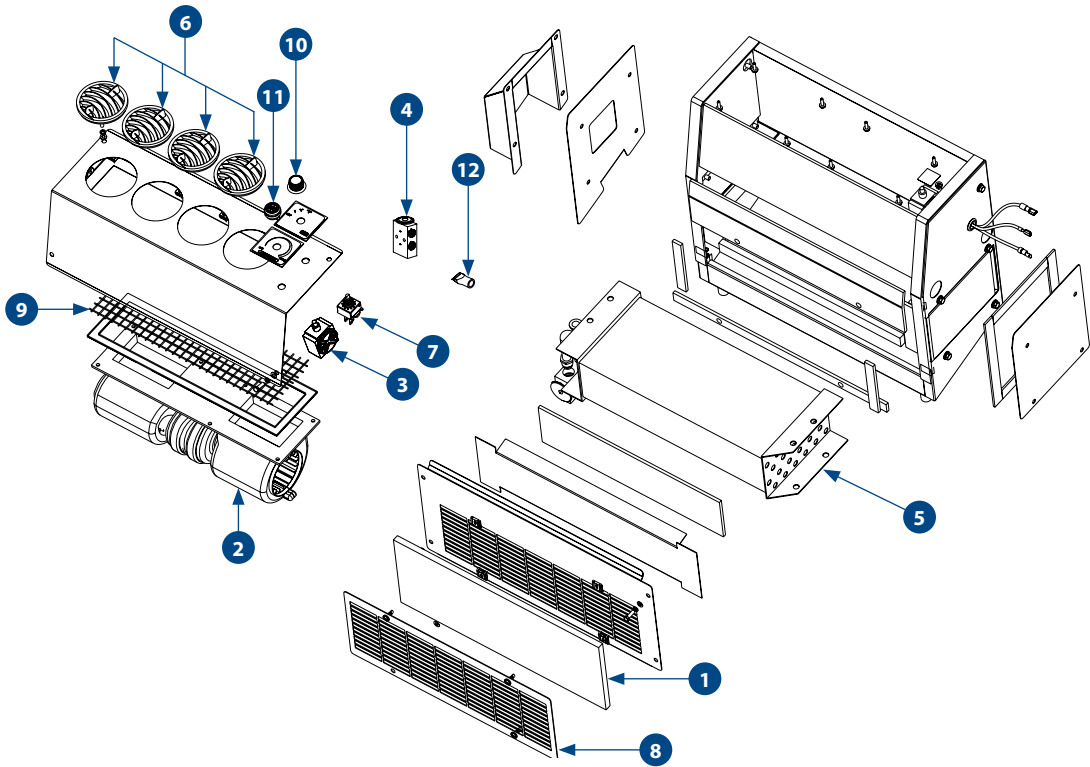
EC12I4SS
Internal Wall Mount Evaporator 24V (Stainless Steel)

**COOLING**
4.0 kW
13648 BTU

**HEATING (OPTION)**
3.5 kW
11942 BTU

**POWER SUPPLY**
12 VDC
24 VDC

**AIR FLOW**
110 l/s
233 CFM



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 S2501182S	EVAPORATOR FILTER MEDIA 385MM X 145MM	1
2 AU400035	FAN DECK 12V 3SPD (EC12I2)	1
AU400034	FAN DECK 24V 3SPD (EC12I4SS)	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 (EC12I2)	1
9 S2501207	GRILLE 344MM X 100MM	1
10 UC451	KNOB 1/4 BLACK PLASTIC 21MM DIAMETER	1
11 UC022	KNOB SNOWFLAKE 6.35MM	1
12 UC504	DRAIN NOZZLE 13MM	4

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	12VDC / 24VDC	12VDC / 24VDC
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 180mm X 418mm	21.7in X 7.1in X 16.5in

MAINTENANCE

MONTHLY / 300 HOURS

S2501182S	EVAPORATOR FILTER MEDIA 385MM X 145MM
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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

COMPANION ITEMS

PART NO.	DESCRIPTION
EC12C4	Electric Condenser 24V
EB9P4X	Pressuriser
H0404763	Hydraulic Driven Compressor 150 (Vertical)
H0428289	Electric Compressor 24V
AU110312	Radiator Condenser
AU110316	Radiator Condenser
AU110388	Radiator Condenser
AU270311	Compressor UP150 2A 24V VMO 132 OD PAG
AU270312	Compressor UP150 1B 24V VMO 135 OD PAG
KIT25014	Heater Kit
AU270008	Engine Driven Compressor
AU270007	Engine Driven Compressor
EC12C2	Electric Condenser 12 V
EC12C4	Electric Condenser 24 V



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OVERHEAD CRANE



RAIL SPECIAL
VEHICLE



TRUCK



UNDERGROUND
EQUIPMENT



WHEEL LOADER



EC22C

REMOTE CONDENSER

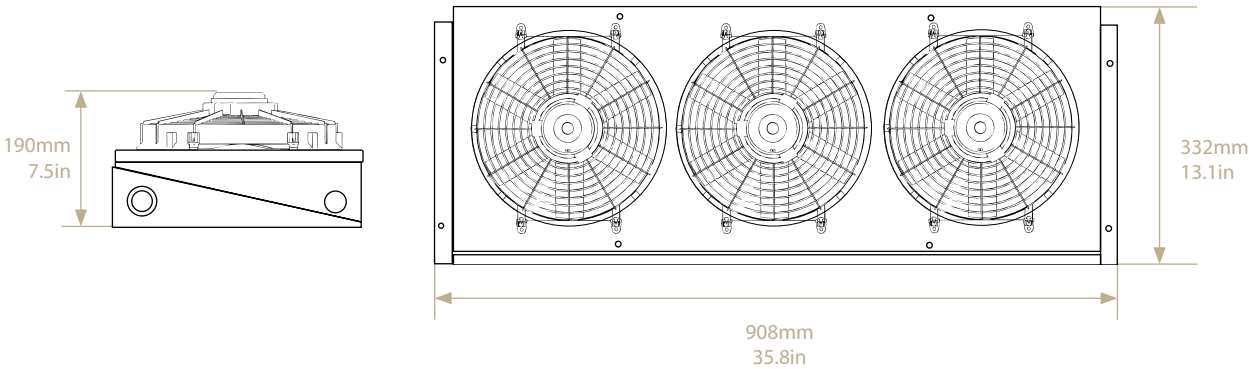
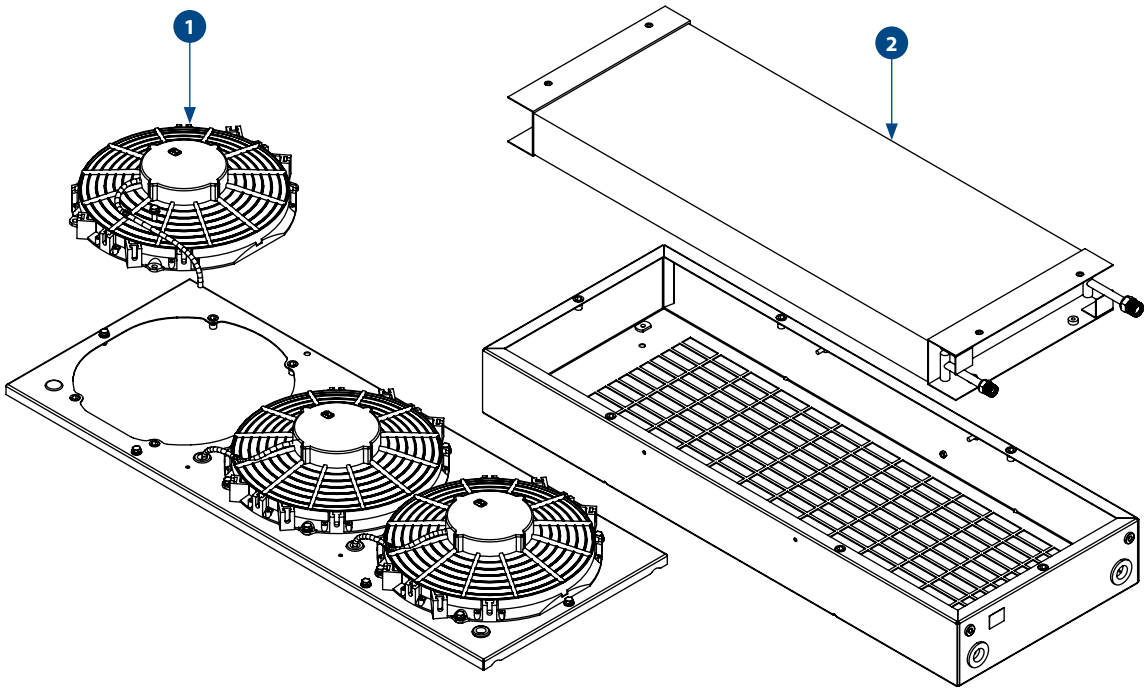
EC22C2

Remote Condenser 6kW 12 VDC

 **COOLING**
6.0 kW
20472 BTU

 **POWER SUPPLY**
12 VDC

OBSOLETE
SUPPORT ONLY



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 H0212292	FAN AXIAL ASSEMBLY 260MM 12VDC (EC22C2)	3
2 AU110388	CONDENSER COIL 800x282x70 (EC22C2)	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	6.0 kW	20472 BTU
Fan Speeds	1	1
Power Supply	12VDC	12VDC
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	35.8in X 13.1in X 7.5in

MAINTENANCE

ANNUAL / 3,600HOURS

H0212292 FAN AXIAL ASSEMBLY 260MM 12VDC

COMPANION ITEMS

PART NO.	DESCRIPTION
EC22H2	Hoodliner Evaporator (12V)
EC22H4	Hoodliner Evaporator (24V)
EB9P4X	Pressuriser
H0404763	Hydraulic Driven Compressor 150 (Vertical)
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



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WHEEL LOADER



EC22H

CEILING EVAPORATOR

EC22H2

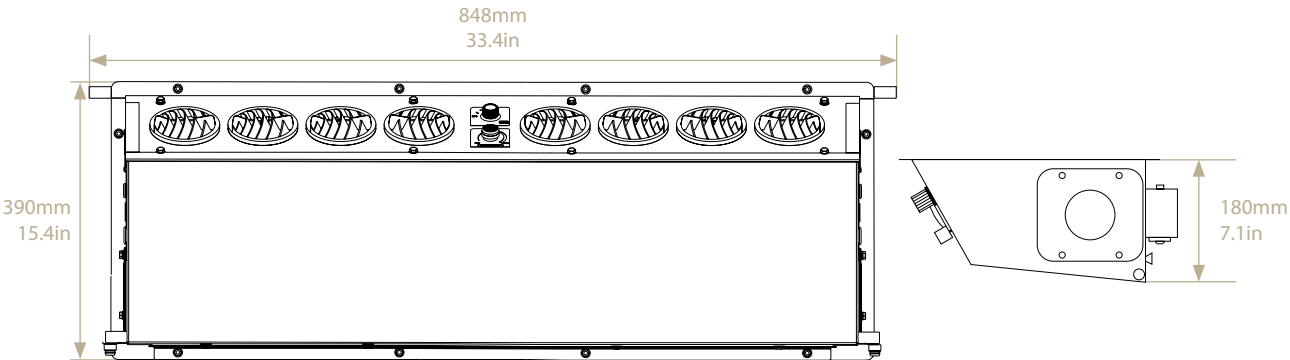
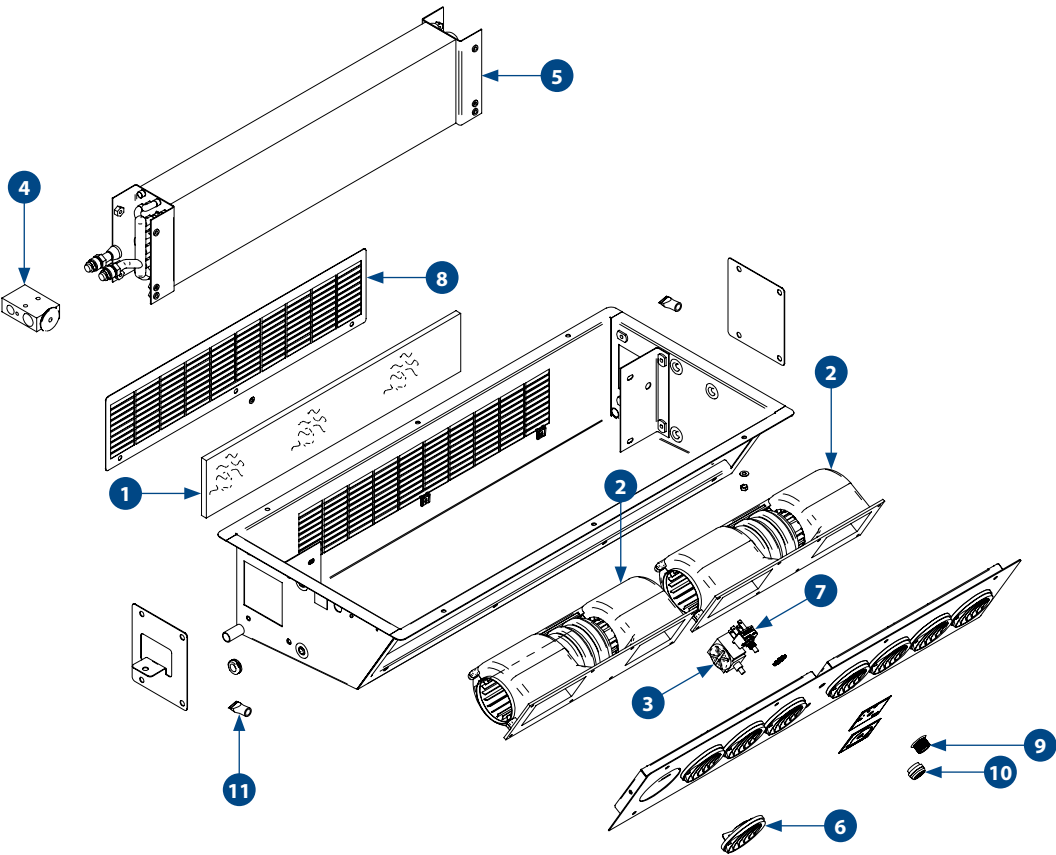
Ceiling Evaporator 6kW 12V

**COOLING**
6.0 kW
20472 BTU

**HEATING (OPTION)**
3.8 kW
12966 BTU

**POWER SUPPLY**
12 VDC

**AIR FLOW**
220 l/s
466 CFM



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 S2502084	FILTER MEDIA	1
2 AU400035	FAN DECK 12V 3SPEED (EC22H2)	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 S2502024	FILTER COVER	1
9 UC451	KNOB 1/4 BLACK PLASTIC 21MM DIAMETER	1
10 UC022	KNOB SNOWFLAKE 6.35MM	1
11 UC504	DRAIN NOZZLE 13MM	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	12VDC	12VDC
Current Draw	24 A	24 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	848mm X 390mm X 180mm	33.4in X 15.4in X 7.1in

MAINTENANCE

MONTHLY / 300 HOURS

S2502084 RETURN AIR FILTER MEDIA

ANNUAL / 3,600 HOURS

AU400035 FAN DECK 12V 3SPD

3 YEARS / 10,800 HOURS

UE016 THERMOSTAT DEICE STUD

UE335 ROTARY SWITCH 3 SPEED COMPLETE WITH NUT

AU521946 TX VALVE BLOCK 2T 3/8" IN 1/2" OUT R134A

COMPANION ITEMS

PART NO.	DESCRIPTION
EC22C2	Electric Condenser 12V
EC22C4	Electric Condenser 24V
EB9P4X	Pressuriser
H0404763	Hydraulic Compressor
H0428289	Electric Compressor 24V
AU110388	Radiator Condenser
AU270306E	Engine Driven Compressor
AU270307E	Engine Driven Compressor
AU270311E	Engine Driven Compressor
AU270312E	Engine Driven Compressor
KIT25021	EC22H Heater Kit
KNHV90019	Vertical Mount Drain Tray
AU270008	Engine Driven Compressor
AU270007	Engine Driven Compressor



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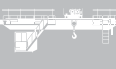
DRILL



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WHEEL LOADER



HDC400

DUAL HYDRAULIC COMPRESSOR ASSEMBLY

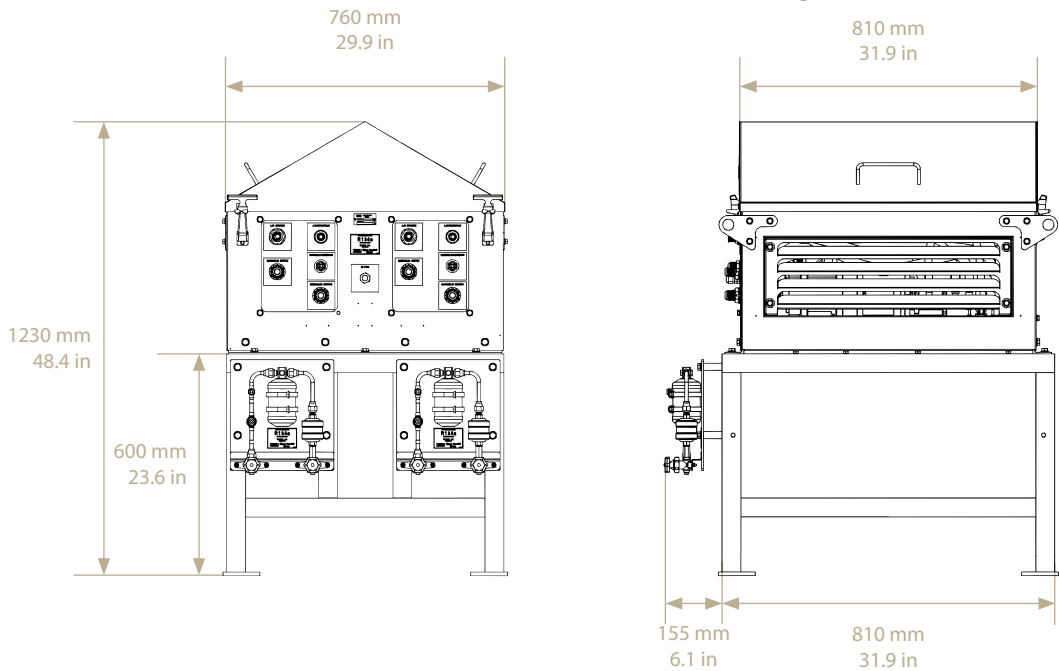
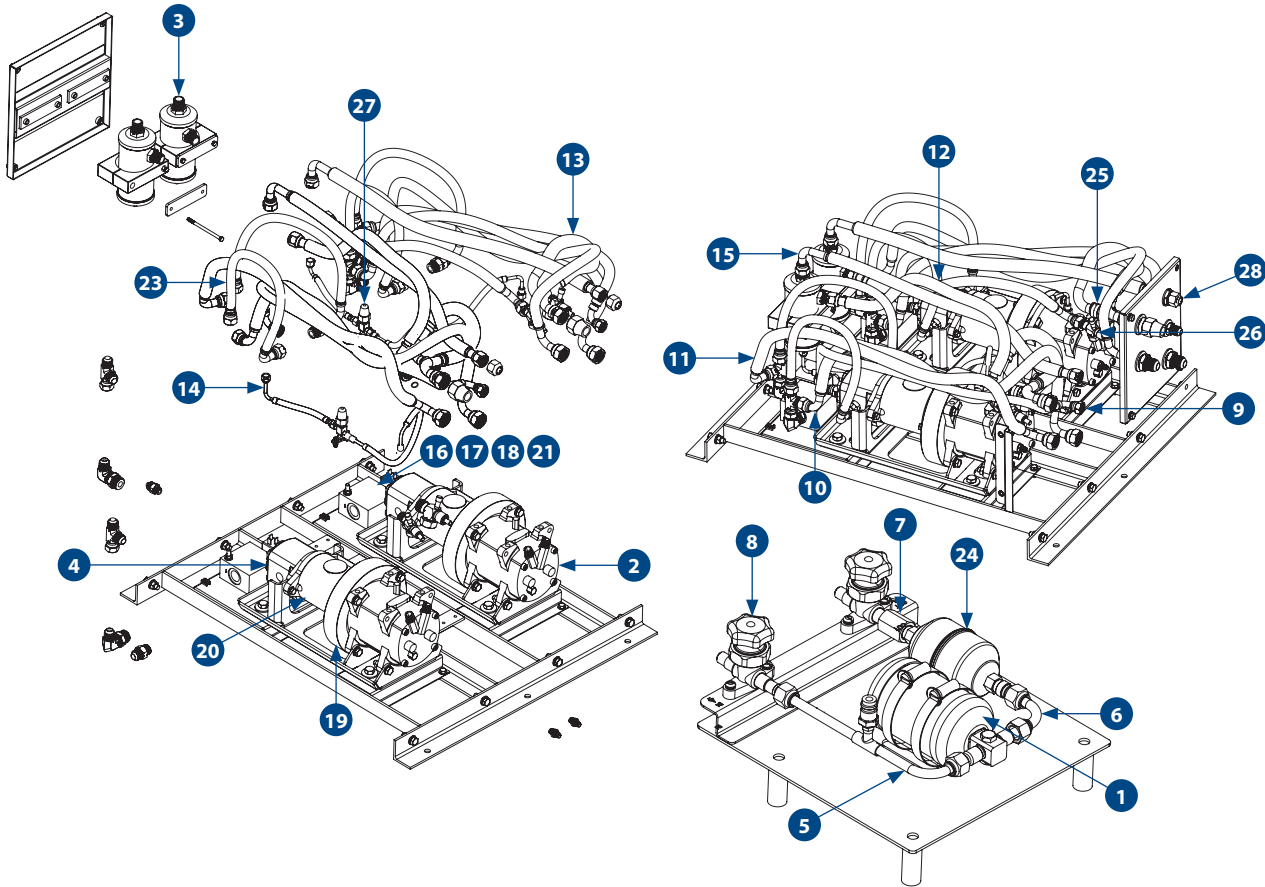
HDC400

Dual Hydraulic Compressor Assembly 24V

 **POWER SUPPLY**
24 VDC
Hydraulic



OBSOLETE
SUPPORT ONLY



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU531411	RECEIVER DRIER 3/8" 24UNF 165MM HIGH	2
2 AU270019E	COMPRESSOR VMO NO CLUTCH	2
3 AU270344	OIL SEPARATOR 7/8" 14UNF 0.52 L/MIN	2
4 AU340000	MOTOR HYDRAULIC DRIVE 14CC	2
5 H0098531	LIQUID LINE ASSEMBLY - VALVE TO RECEIVER	2
6 H0098529	LIQUID LINE ASSEMBLY - RECEIVER TO DRIER	2
7 AU512406	UNION 3/8" FF X 3/8" FF	2
8 AU517004	VALVE 3/8" MF 2 WAY	4
9 AS3874501	HOSE - HYDRAULIC MOTOR DRAINAGE	2
10 AS3874502	HOSE - SOLENOID VALVE IN	2
11 AS3874503	HOSE - SOLENOID VALVE OUT	2
12 AS3874504	HOSE - HYDRAULIC COMPRESSOR DISCHARGE	2
13 AS3874505	HOSE - HYDRAULIC COMPRESSOR SUCTION	2
14 AS3874506	HOSE - ISOLATION VALVE TO OIL SEPARATOR	2
15 AS3874507	HOSE - DISCHARGE TO OIL SEPARATOR	2
16 AU522000	SOLENOID VALVE CARTRIDGE SIZE 12	2
17 AU522003	SOLENOID VALVE BODY SIZE 12 3/4" BSPP	2
18 AU522001	SOLENOID VALVE COIL	2
19 AS509746	ADAPTOR PLATE COMPRESSOR	2
20 AS509727	COMPRESSOR MOTOR HOUSING	2
21 AU631452	PLUG SOLENOID VALVE COIL 24VDC	2
22 AS160182	HP FLEXIBLE HOSE ASSEMBLY	2
23 AS3754116	HOSE - HYDRAULIC MOTOR IN	4
24 658004A	INLINE DRIER	2
25 AU230644	VALVE SERVICE 5/8" WITH ACCESS PORT	2
26 AU230C011	VALVE 1/2 TUBE #8 R134A DISCHARGE	2
27 AU517202	PCAV 1/4" MF	2
28 AU512C067	BULKHEAD FITTING O-RING 5/8"	2
AU523655	HIGH PRESSURE SWITCH 1/4" FF 2415kPa	2
AU523365	LOW PRESSURE SWITCH 1/4" FF 205kPa	2
H0130377	ADAPTOR SHAFT AND MALE COUPLING	2
AU851590	TOGGLE CLAMP RUBBER	4
AS509742	COUPLING MALE MOTOR	2
AS509744	COUPLING FEMALE	2

SPECIFICATIONS

	METRIC	IMPERIAL
Power Supply	24VDC Hydraulic	24VDC Hydraulic
Refrigerant	R134a	R134a
Technical Manual Reference	SM4858-3874	SM4858-3874
Dimension (L X W X H)	760mm X 1055 mm X 1230mm	29.9in X 41.5in X 48.4in

MAINTENANCE

ANNUAL / 3,600 HOURS

AU531411 RECEIVER DRIER 3/8" 24UNF 165MM HIGH

3 YEARS / 10,800 HOURS

AU523655 HIGH PRESSURE SWITCH 1/4" FF 2415kPa

AU523365 LOW PRESSURE SWITCH 1/4" FF 205kPa

AU270019E COMPRESSOR VMO NO CLUTCH

AU230C011 VALVE 1/2 TUBE #8 R134a DISCHARGE

AU230644 VALVE SERVICE 5/8" WITH ACCESS PORT

COMPANION ITEMS

PART NO.	DESCRIPTION
TFC8BX1	Electric Condenser
H0235424	TCF8BX6 Electric Condenser
EB9P4X	Fresh Air Pressuriser 31 l/s 24V
TFC8BX5	Ceiling Evaporator 8kW 24V



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EQUIPMENT



WHEEL LOADER



MPF6MX10

FLOOR MOUNTED UPRIGHT HVAC UNIT

MPF6MX10

Floor Mounted Upright Packaged HVAC 6kW
415VAC without Pressuriser

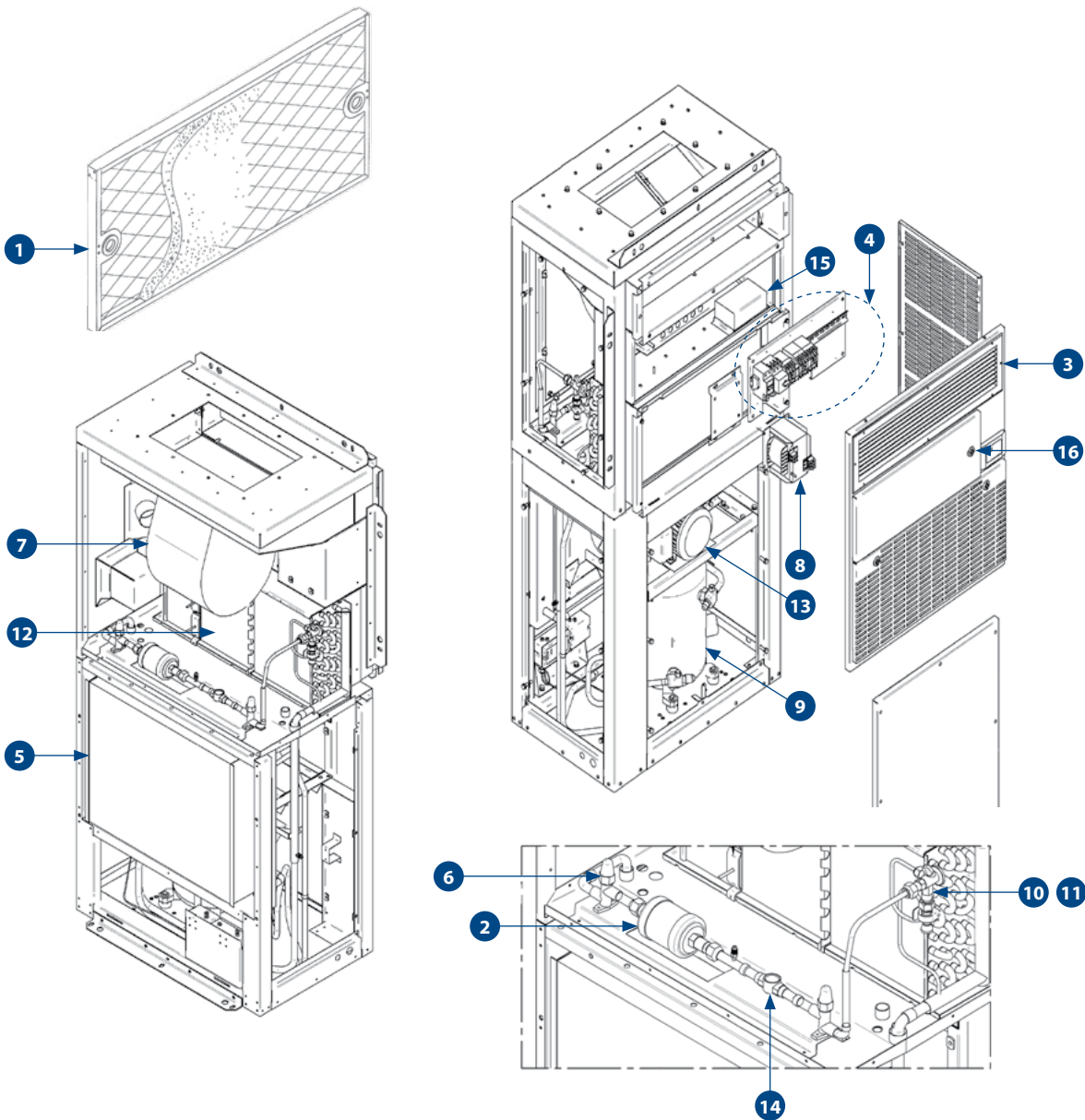
**COOLING**
6.0 kW
20472 BTU

**POWER SUPPLY**
415 VAC
50Hz 3 Phase

**AIR FLOW**
270 l/s
572 CFM



OBSOLETE
SUPPORT ONLY



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AS242745S	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 AU410503	BLOWER ASSEMBLY 240V 50HZ	1
8 AU666026	TRANSFORMER 415V 240V 24V 500VA	1
9 H0564078	COMPRESSOR RETROFIT KIT	1
H0096689	COMPRESSOR INCLUDED IN H0564078 Previously AU230346	1
10 AU521505	TX ORIFICE 2T R22 #05	1
11 AU521509	TX VALVE 2T 3/8" IN 1/2" OUT 1/4" EQ R134A	1
12 AU120284	EVAPORATOR COIL 610MM X 318MM X 110MM 4RW MPF	1
13 AU310214	MOTOR 0.75KW 80P FT 4P	1
14 AU533556	LMI 5/8" SOLDER	1
15 H0152931	THERMOSTAT CONTROL KIT	1
16 AU851566	LATCH 1/4 TURN	3
AU420252	FAN AXIAL 400MM 9 BLADES	1
S2427088	FILTER MEDIA	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	12A	12A
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

S2427088	FILTER MEDIA
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ANNUAL / 5,400 HOURS

AU531358	DRIER 5/8" MF
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3 YEARS / 16,200 HOURS

AU521509	TX VALVE 2T 3/8" IN 1/2" OUT 1/4" EQ R134A
AU521505	TX ORIFICE 2T R22 #05

COMPANION ITEMS

PART NO.	DESCRIPTION
FVV50M1	Pressuriser



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UNDERGROUND
EQUIPMENT

WHEEL LOADER



MPR7MX1

EVAPORATOR / CONDENSER

ROOFTOP PACKAGED HVAC UNIT

MPR7MX1

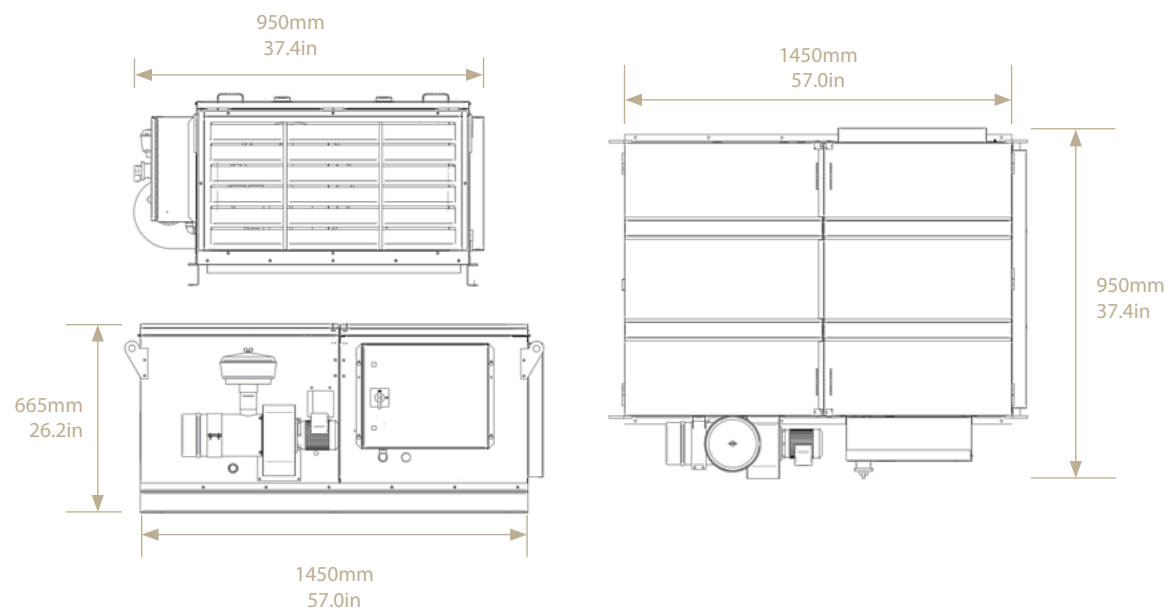
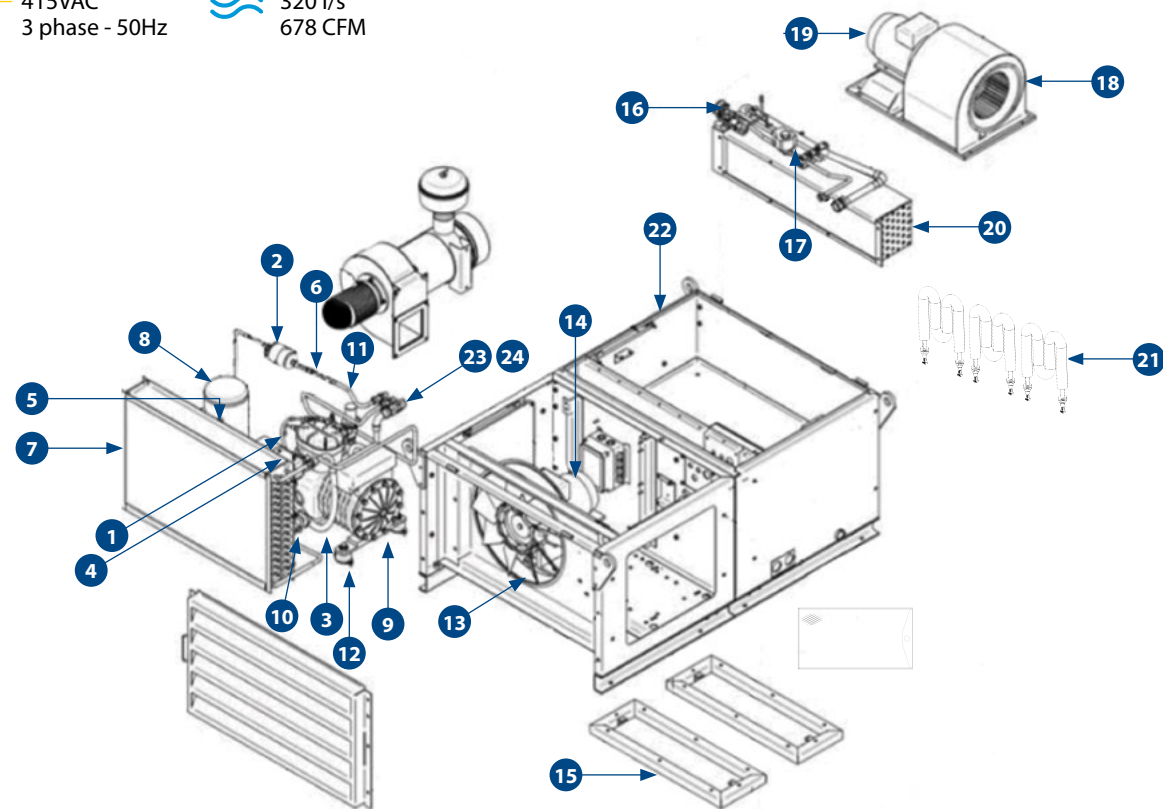
7kW 415VAC with Heating (3kW)
(Gas R134a)

**COOLING**
7.0 kW
23884 BTU

**HEATING (OPTION)**
3.0 kW
10236 BTU

**POWER SUPPLY**
415VAC
3 phase - 50Hz

**AIR FLOW**
320 l/s
678 CFM

**OBSOLETE**
SUPPORT ONLY

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 SIGHT GLASS	1
7	AU110336 CONDENSER COIL 735X476X110 4RW M7	1
8	AU160009 LIQ REC 5.4L 1\2 SL X 1\2 ROTALOCK	1
9	AU260201 COMPRESSOR 400VAC 50Hz	1
10	H0124651 VALVE 1/4" MF 3 WAY Previously AU517102	2
11	AU517256 ISOLATION VALVE	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
AU521509	TX VALVE 2T 3/8" IN 1/2" OUT 1/4" EQ R134A	1
17	AU522042 SOLENOID VALVE 1/2" SOLDER NC 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	UR524 EVAPORATOR COIL 796MM X 191MM X 165MM 8RW	1
21	UE470 HEATER W SHAPE 1.0kW 240VAC 200MM FIN	3
22	AU862211 SEAL RUBBER	7m
23	UR114 BULKHEAD FITTING 1-5/16" JIC	1
24	UR008 BULKHEAD FITTING 1/2" MF	1
25	AU542026 REFRIGERATION OIL	3
AU681020	THERMOSTAT T5 50°C SPST N/C AUTO	1
UC342	DIFFUSER 500MM X 200MM OPEN AREA DOUBLE DEFLECTION	1
AU872025	SHAFT EXTENSION 24MM F X 19MM M	1
AU517501	VALVE ACCESS 1/4" 60MM SHORT TAIL	2
H0017184	VALVE SHUT OFF SUCTION	1
H0017209	GASKET DISCHARGE VALVE	1
H0017215	VALVE SHUT OFF DISCHARGE	1
H0017217	GASKET SUCTION VALVE	1
UC310	CATCH TOGGLE OVERCENTRE SS	4

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	12A	12A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	55°C	131°F
Weight (nominal)	454.0 Kg	998.8 lbs
Technical Manual Reference	SM277-2136_K.	SM277-2136_K.
Dimension (L X W X H)	1450mm X 950 mm X 665mm	57.0in X 37.4in X 26.2in

MAINTENANCE

MONTHLY / 450 HOURS

AU4601006	FILTER ASSEMBLY 400MM x 185MM x 20MM (OPTIONAL)
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ANNUAL / 5,400 HOURS

AU531356	DRIER 1/2" MF
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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

COMPANION ITEMS

PART NO.	DESCRIPTION
AU4601006	FILTER ASSEMBLY 400MM X 185MM X 20MM



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EQUIPMENT



WHEEL LOADER



MPR7MX1

ELECTRICAL

ROOFTOP PACKAGED HVAC UNIT

MPR7MX1

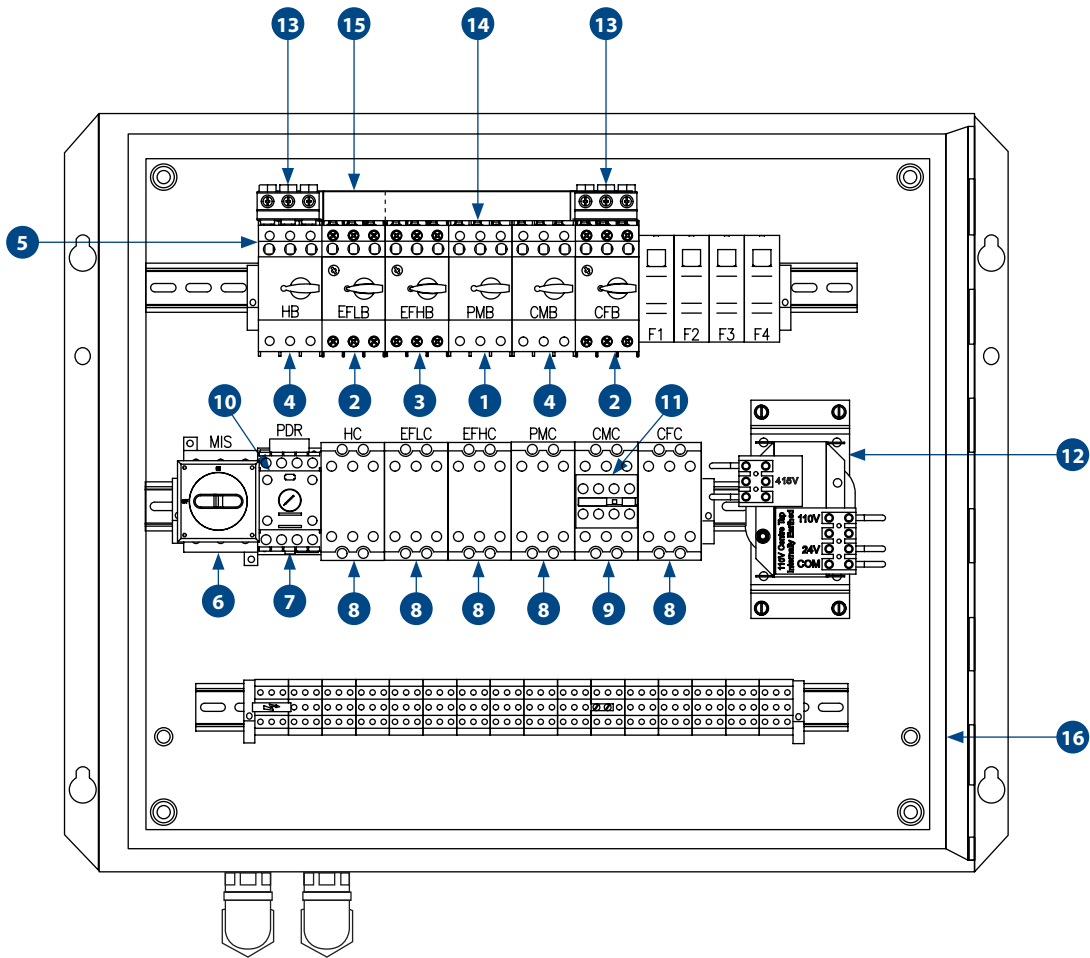
7kW 415VAC with Heating (3kW)
(Gas R134a)

**COOLING**
7.0 kW
23884 BTU

**HEATING (OPTION)**
3.0 kW
10236 BTU

**POWER SUPPLY**
415VAC
3 phase - 50Hz

**AIR FLOW**
320 l/s
678 CFM



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

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	12A	12A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	55°C	131°F
Weight (nominal)	454.0 Kg	998.8 lbs
Technical Manual Reference	SM277-2136_K.	SM277-2136_K.
Dimension (L X W X H)	1450mm X 950 mm X 665mm	57.0in X 37.4in 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.

COMPANION ITEMS

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

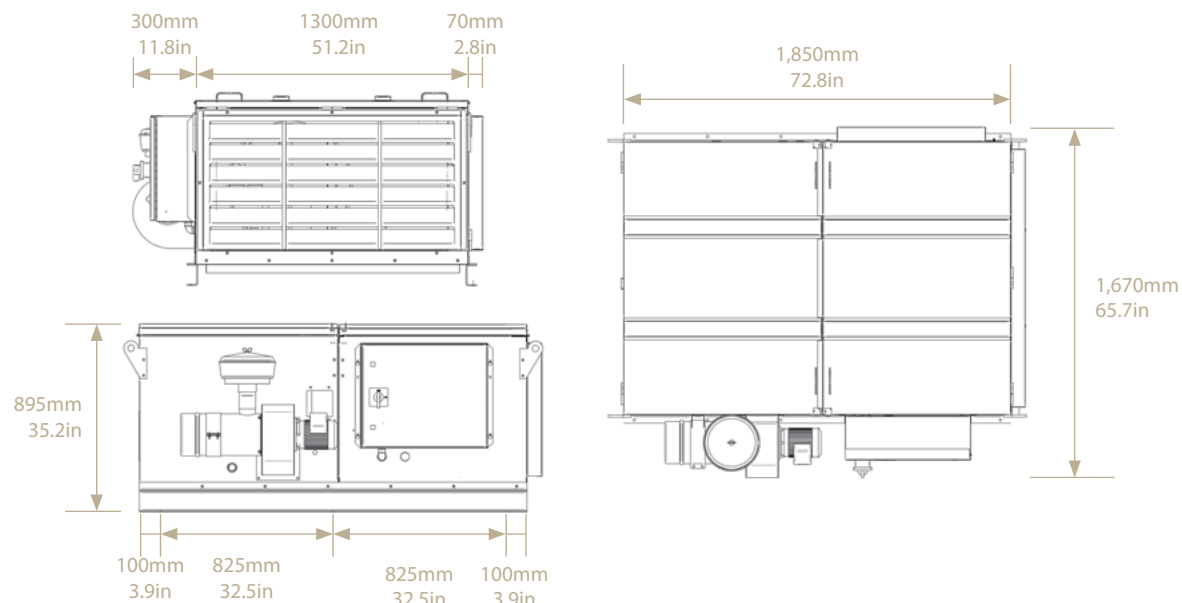
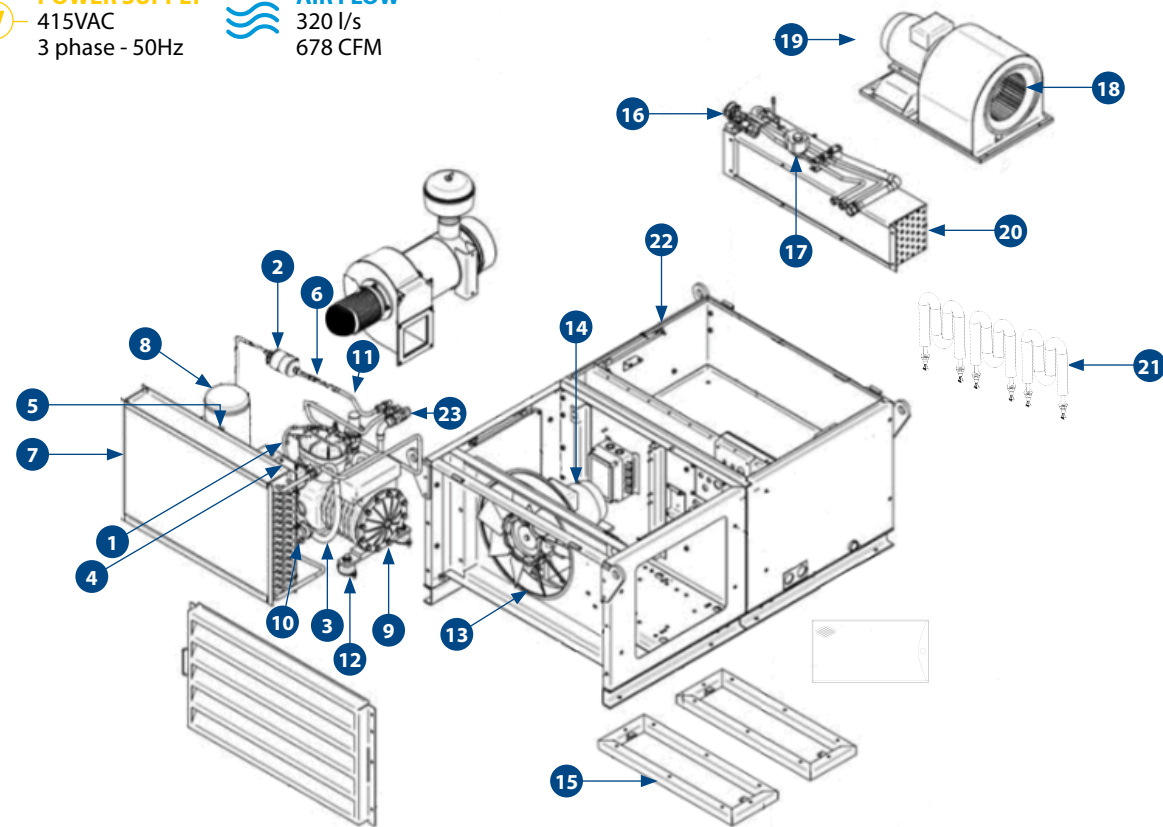
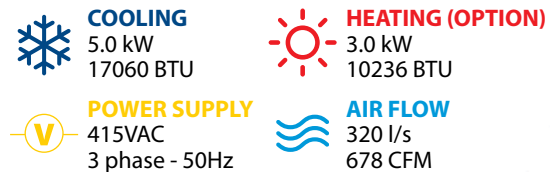
MPR7MZ1

EVAPORATOR/CONDENSER

ROOFTOP PACKAGED HVAC UNIT

MPR7MZ1

5kW 415VAC with Heating (3kW)
(Gas R124)



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 SIGHT GLASS	1
7	AU110338 CONDENSER COIL 735MM X 476MM X 110MM	1
8	AU160009 LIQ REC 5.4L 1\2 SL X 1\2 ROTALOCK	1
9	AU260205 COMPRESSOR 400VAC 50Hz	1
10	H0124651 VALVE 1/4" MF 3 WAY Previously AU517102	2
11	AU517256 ISOLATION VALVE	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 600MM X 150mm ID	2
16	AU521235 TX POWER ELEMENT 5' 1/4" EQ R124 AU521400 TX VALVE BODY 1/2" IN X 5/8" OUT 90 DEG AU521589 TX VALVE CAGE R747	1 1 1
17	AU522042 SOLENOID VALVE 1/2" SOLDER NC UE453 COIL SOLENOID 110VAC	1 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
21	UE470 HEATER W SHAPE 1.0kW 240VAC 200MM FIN	3
22	AU862211 SEAL RUBBER	4.2m
23	UR114 BULKHEAD FITTING 1-5/16" JIC	1
	UR008 BULKHEAD FITTING 1/2" MF	2
	AU523606 HP CONTROL AUTO	1
	AU517501 VALVE ACCESS 1/4" 60MM SHORT TAIL	2
	AU526030 VALVE HOT GAS BYPASS ANGLE 1/2" SOLDER	1
	AU526036 HOT GAS MIXER NV 24MM	1
	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
	AU872025 SHAFT EXTENSION 24MM F X 19MM M	1
	UC310 CATCH TOGGLE OVER CENTRE SS	4
	AU542005 REFRIGERATION OIL	3
	H0017215 VALVE SHUT OFF DISCHARGE	1
	H0017184 VALVE SHUT OFF SUCTION	1
	H0017209 GASKET DISCHARGE VALVE	1
	H0017217 GASKET SUCTION VALVE	1

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	12A	12A
Refrigerant	R124	R124
Maximum Ambient Temperature	55°C	131°F
Weight (nominal)	454.0 Kg	998.8 lbs
Technical Manual Reference	SM277-2136	SM277-2136
Dimension (L X W X H)	1850mm X 1670 mm X 895mm	72.8in X 65.7in X 35.2in

MAINTENANCE

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
AU542005	REFRIGERATION OIL
AU521235	TX POWER ELEMENT 5' 1/4" EQ R124
AU521589	TX VALVE CAGE R747
AU862211	SEAL RUBBER
AU517102	VALVE 1/4" MF 3 WAY
H0017215	VALVE SHUT OFF DISCHARGE
H0017184	VALVE SHUT OFF SUCTION
H0017209	GASKET DISCHARGE VALVE
H0017217	GASKET SUCTION VALVE

COMPANION ITEMS

PART NO.	DESCRIPTION
AU4601006	FILTER ASSEMBLY 400MM X 185MM X 20MM



DOZER



DRAGLINE & SHOVEL



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OVERHEAD CRANE



RAIL SPECIAL
VEHICLE



TRUCK



UNDERGROUND
EQUIPMENT



WHEEL LOADER



MPR7MZ1

ELECTRICAL

ROOFTOP PACKAGED HVAC UNIT

MPR7MZ1

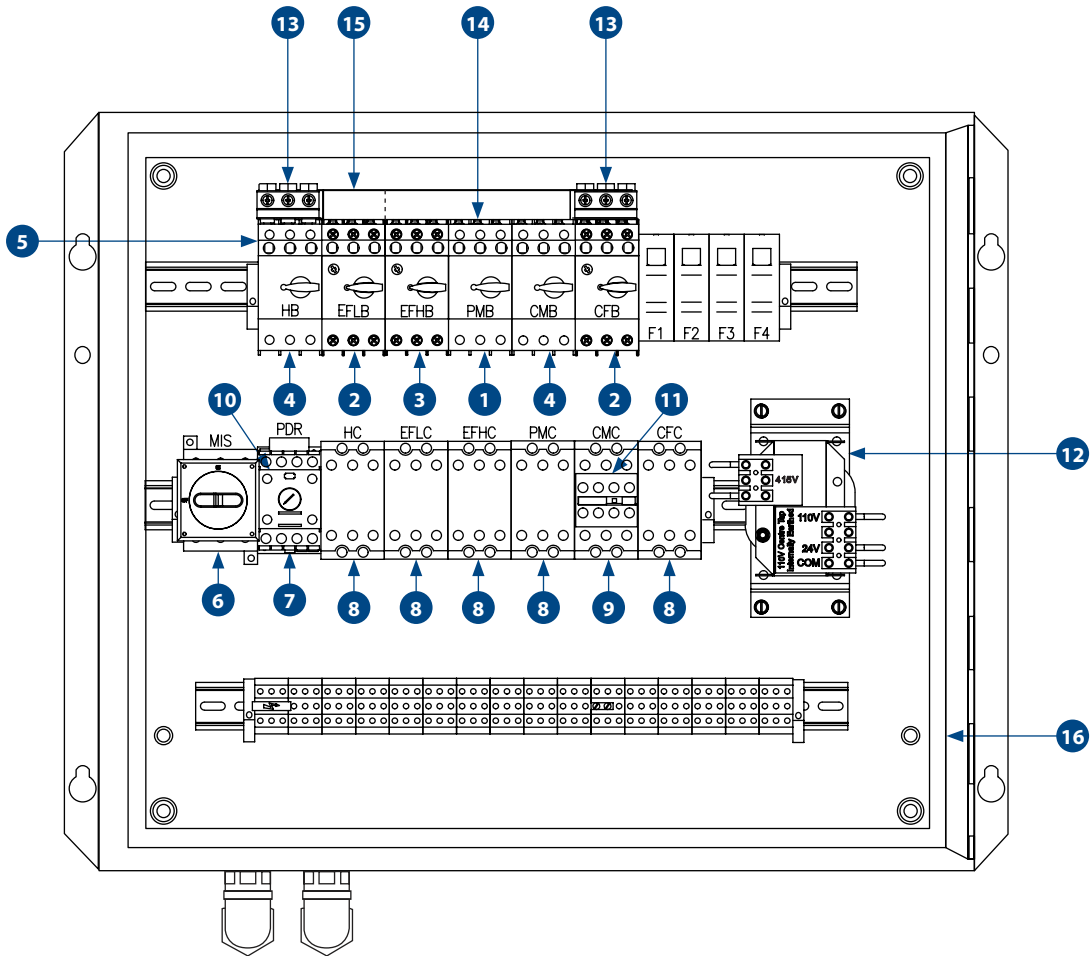
5kW 415VAC with Heating (3kW)
(Gas R124)

**COOLING**
5.0 kW
17060 BTU

**HEATING (OPTION)**
3.0 kW
10236 BTU

**POWER SUPPLY**
415VAC
3 phase - 50Hz

**AIR FLOW**
320 l/s
678 CFM



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

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	12A	12A
Refrigerant	R124	R124
Maximum Ambient Temperature	55°C	131°F
Weight (nominal)	454.0 Kg	998.8 lbs
Technical Manual Reference	SM277-2136	SM277-2136
Dimension (L X W X H)	1850mm X 1670 mm X 895mm	72.8in X 65.7in X 35.2in

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.

COMPANION ITEMS

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



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OVERHEAD CRANE



RAIL SPECIAL
VEHICLE



TRUCK



UNDERGROUND
EQUIPMENT



WHEEL LOADER



MPR20MX1

EVAPORATOR

ROOFTOP PACKAGED HVAC UNIT

MPR20MX1

20kW 415VAC with Heating (9kW)

**COOLING**
20.0 kW
68240 BTU

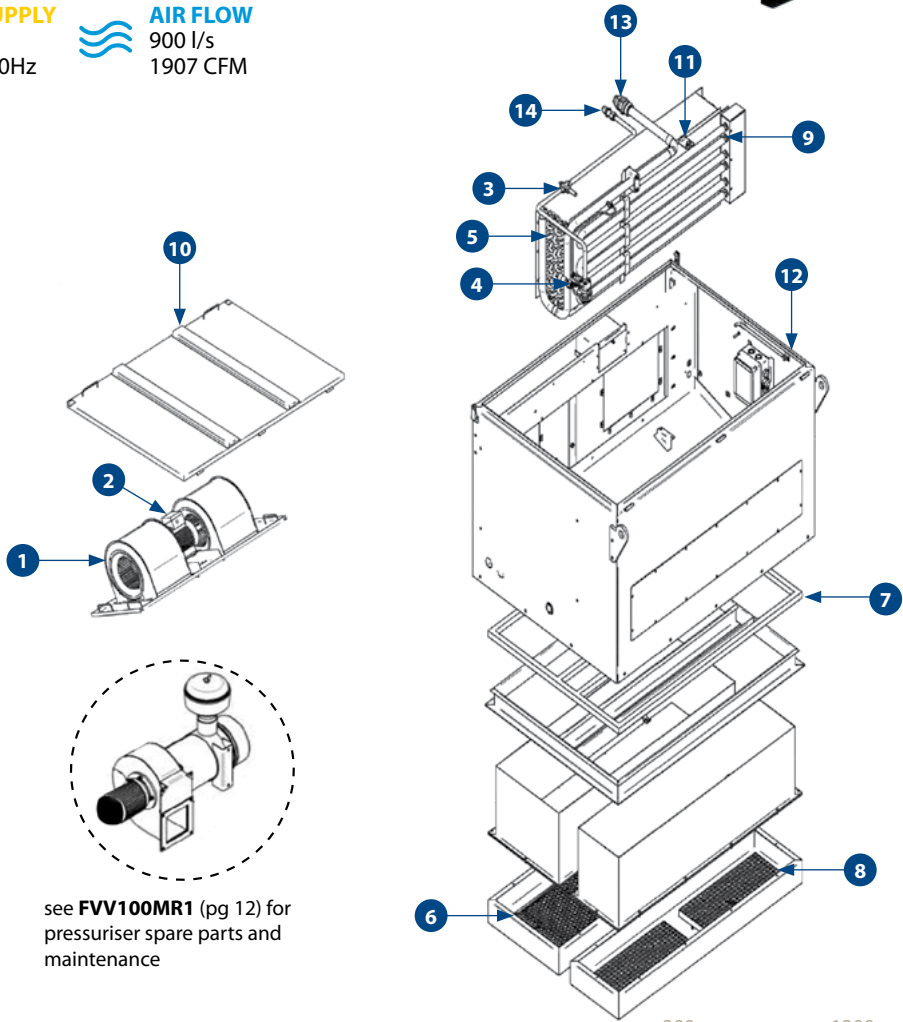
**HEATING (OPTION)**
9.0 kW
30708 BTU

**POWER SUPPLY**
415 VAC
3 phase - 50Hz

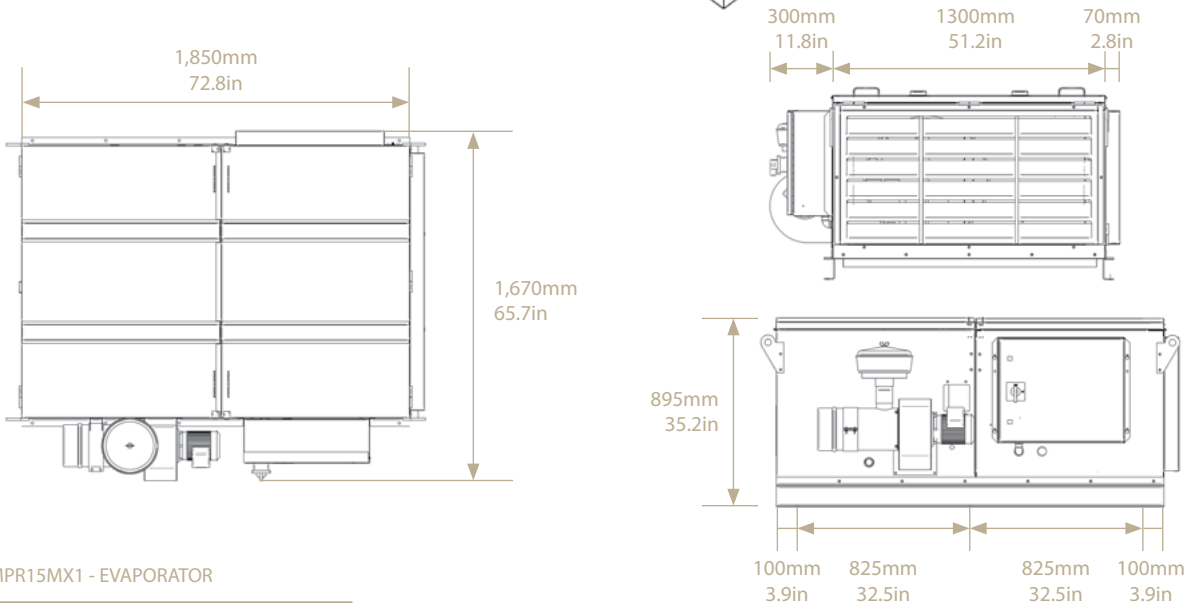
**AIR FLOW**
900 l/s
1907 CFM



OBSOLETE
SUPPORT ONLY



see **FVV100MR1** (pg 12) 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
AU668134	COIL SOLENOID 24VAC	1
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
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 H0235090	ROOF SEAL Previously AU08379	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 UR302	BULKHEAD 1 5/8" MJIC UNION 1 5/8" FJIC X 1 1/2 SL	1 1
14 UR011	BULKHEAD 5/8" MF	1

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
Technical Manual Reference	SM277-2136	SM277-2136
Dimension (L X W X H)	1850mm X 1670 mm X 895mm	72.8in X 65.7in X 35.2in

MAINTENANCE

ANNUAL / 5,400 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

COMPANION ITEMS

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

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.



DOZER



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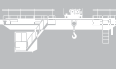
DRILL



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OVERHEAD CRANE



RAIL SPECIAL
VEHICLE



TRUCK



UNDERGROUND
EQUIPMENT



WHEEL LOADER



MPR20MX1

CONDENSER

ROOFTOP PACKAGED HVAC UNIT

MPR20MX1

20kW 415VAC with Heating (9kW)

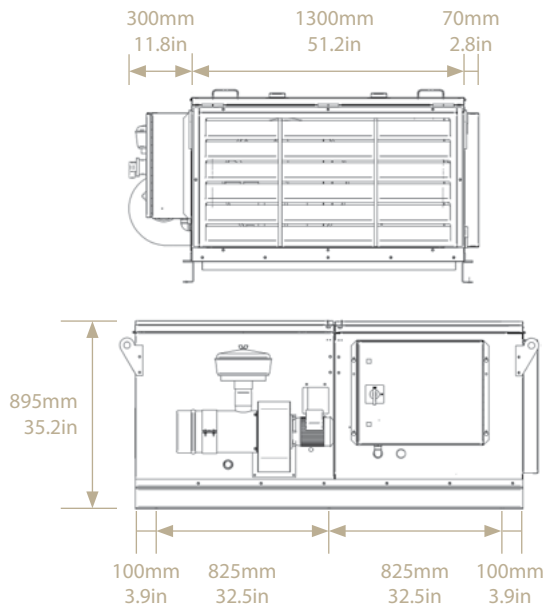
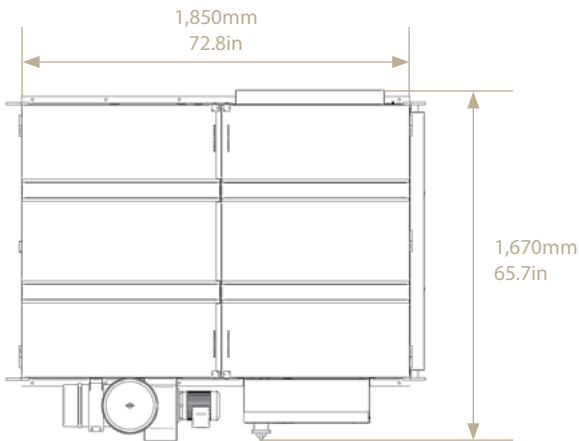
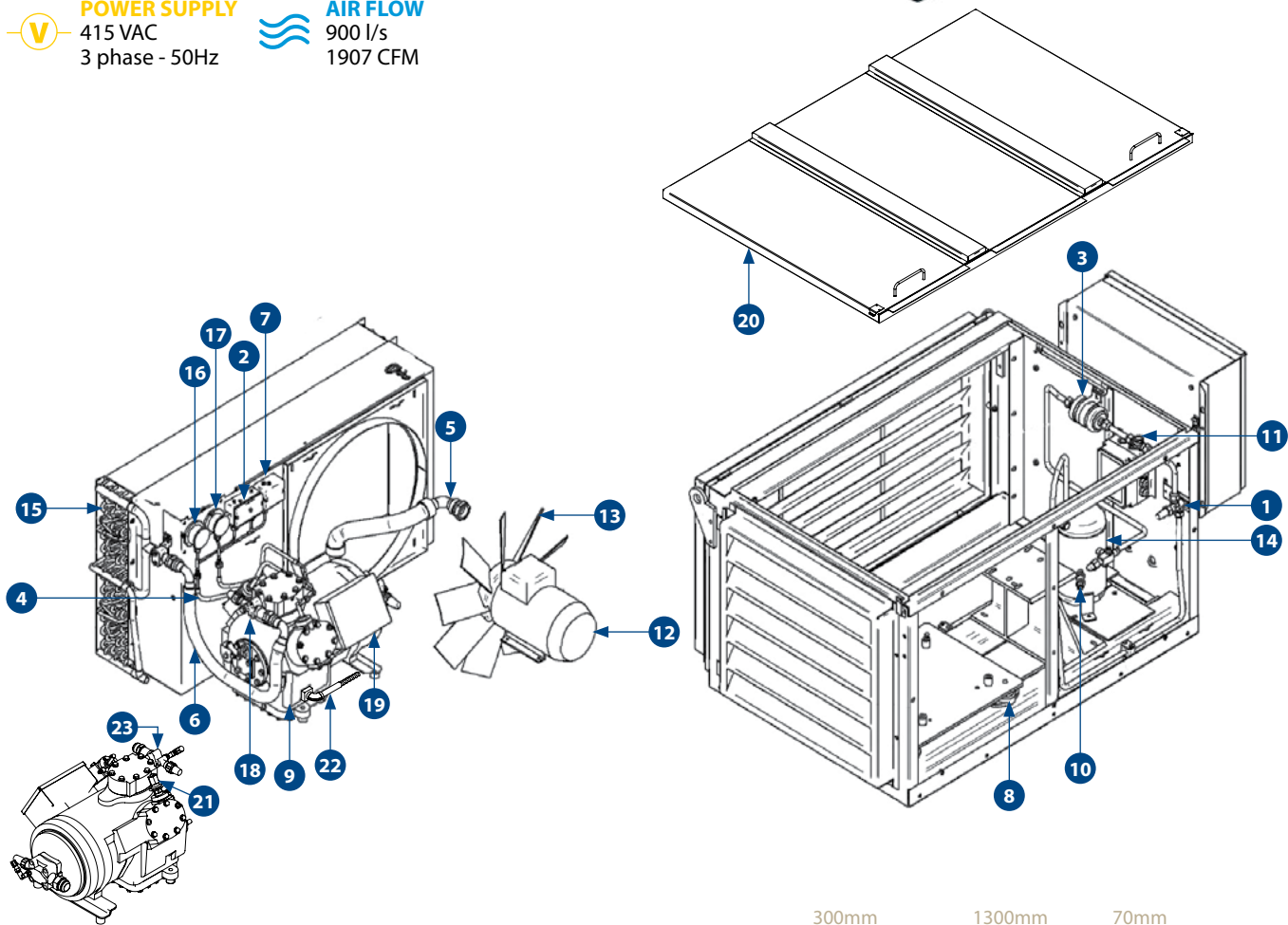
**COOLING**
20.0 kW
68240 BTU

**HEATING (OPTION)**
9.0 kW
30708 BTU

**POWER SUPPLY**
415 VAC
3 phase - 50Hz

**AIR FLOW**
900 l/s
1907 CFM

OBSOLETE
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	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
20	AS508425 LID ASSEMBLY	1
21	AU200045 VALVE UNLOADER PRESSURE	1
22	AU200079 CRANKCASE HEATER 415V 75W	1
23	AU200061 VALVE UNLOADER ELECTRICAL	1
	AU517507 VALVE ACCESS 1/4"	1
	AU519074 ADAPTOR 134A 1/4" HIGH SIDE RED	1
	AU519075 ADAPTOR 134A 1/4" LOW SIDE BLUE	1
	AU542026 REFRIGERANT OIL	4
	AU200061 VALVE UNLOADER ELECTRICAL	1

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
Technical Manual Reference	SM277-2136	SM277-2136
Dimension (L X W X H)	1850mm X 1670 mm X 895mm	72.8in 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.



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UNDERGROUND
EQUIPMENT



WHEEL LOADER



MPR20MX1

ELECTRICAL

ROOFTOP PACKAGED HVAC UNIT

MPR20MX1

20kW 415VAC with Heating (9kW)



OBSOLETE
SUPPORT ONLY



COOLING
20.0 kW
68240 BTU



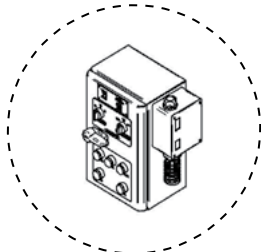
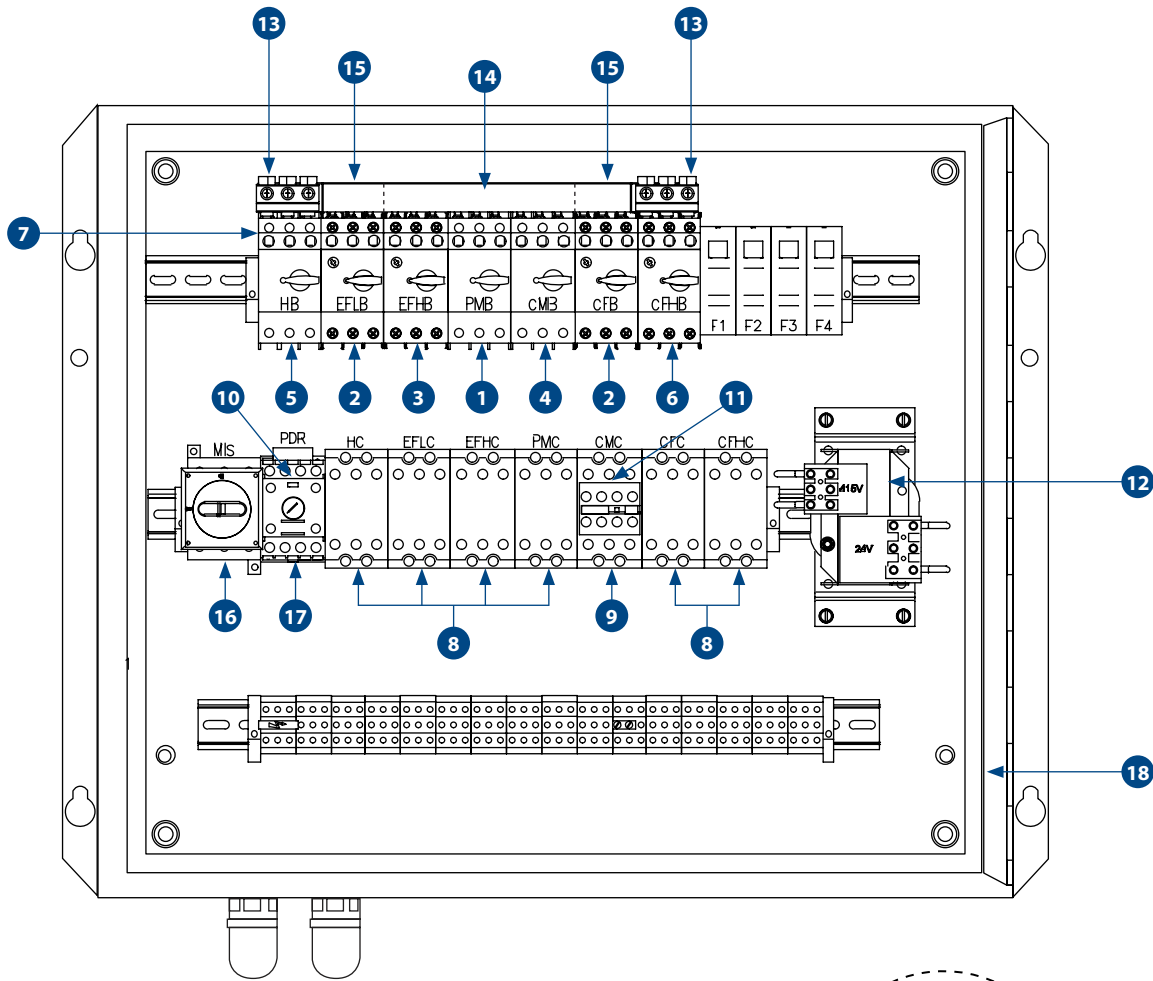
HEATING (OPTION)
9.0 kW
30708 BTU



POWER SUPPLY
415 VAC
3 phase - 50Hz



AIR FLOW
900 l/s
1907 CFM



see **MEW11** (pg 98) for control
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 2.8-4.0A 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

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
Technical Manual Reference	SM277-2136	SM277-2136
Dimension (L X W X H)	1850mm X 1670 mm X 895mm	72.8in X 65.7in X 35.2in

MAINTENANCE

3 YEARS / 16,200 HOURS

AU653505	TIMER (3-30 SECONDS)
AU651056	CONTACTOR 12A 3 POLE 24VAC 1NC

COMPANION ITEMS

PART NO.	DESCRIPTION
FVV100MR1	Pressuriser

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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UNDERGROUND
EQUIPMENT



WHEEL LOADER



TCF7

ROOFTOP CONDENSER

TCF7BX1

7kW 24V with Flare Fittings

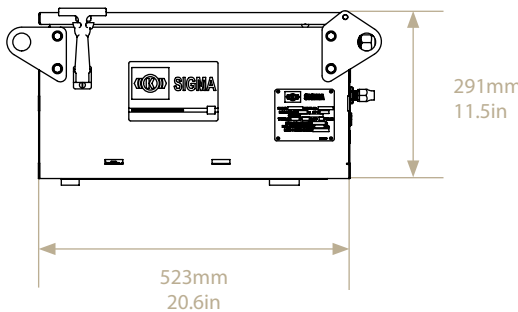
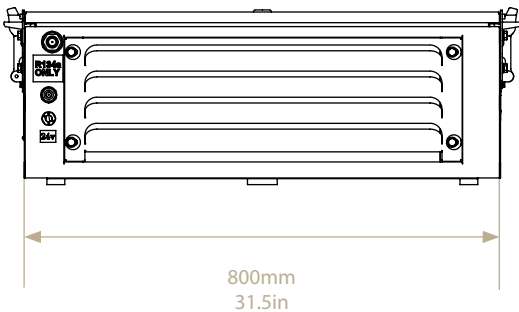
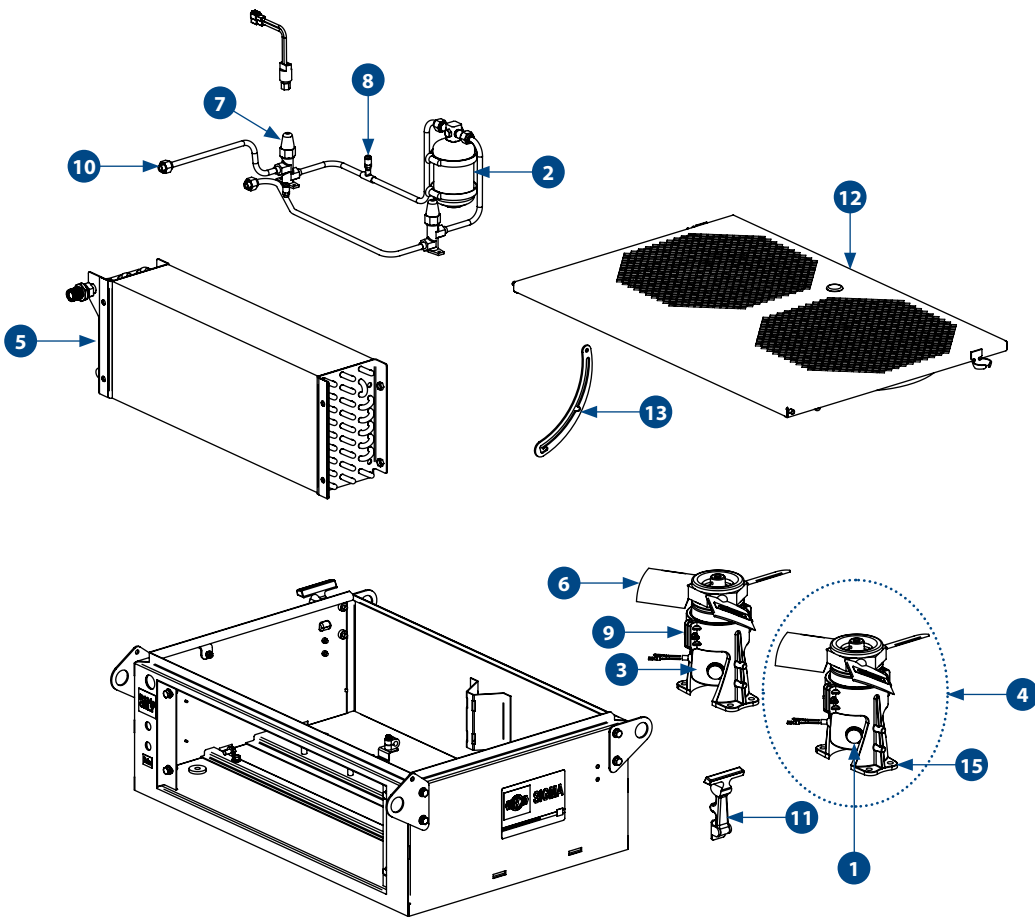
 **COOLING**
7.0 kW
23884 BTU

 **AIR FLOW**
650 l/s
1377 CFM

 **POWER SUPPLY**
24 VDC



OBSOLETE
SUPPORT ONLY



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 H0393309	MOTOR BRUSH 24VDC Previously AU320621 for UE026	4
2 AU531411	RECEIVER DRIER 3/8" 24UNF 165MM HIGH	1
3 H0384821	24V DC SINGLE SHAFT BRUSHED MOTOR Previously UE026	2
4 AS5000170	CONDENSER FAN ASSEMBLY 24V	2
5 AU110631	CONDENSER COIL 6RW (TCF7BX1)	1
AU110029	CONDENSER COIL 6R (TCF7BX2)	1
6 AU420229	FAN AXIAL 300MM 3 BLADES LB	2
7 AU517254	PCAV 3/8" SOLDER	2
8 AU517505	VALVE ACCESS 1/4" 1/8" OD SOLDER	1
9 UC028	CONDENSER MOTOR MOUNT	4
10 UR009	BULKHEAD FITTING 3/8" MF #6 (TCF7BX1)	1
AU512C065	BULKHEAD FITTING O-RING 3/8" (TCF7BX2)	1
11 AU851590	TOGGLE CLAMP RUBBER (TCF7BX2)	2
12 AS5000125	CONDENSER LID W/ASSEMBLY	1
13 S5000149	LID PROP	1
AS515203	LIQUID LINE VALVE TO DRIER	3
AS515204	LIQUID LINE DRIER TO RECEIVER	3
AS515205	LIQUID LINE RECEIVER TO VALVE	3
AU935432	FLAT NEOPRENE EXTRUSION	2

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	7.0 kW	23884 BTU
Fan Speeds	1	1
Air Flow	650 l/s	1377 CFM
Power Supply	24V	24V
Current Draw	20 A	20 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	35.0 Kg	77.0 lbs
Dimension (L X W X H)	800mm X523mm X 291mm	31.5in X 20.6in X 11.5in

MAINTENANCE

6 MONTHS / 2,400 HOURS

H0393309 MOTOR BRUSH 24VDC

ANNUAL / 4,800 HOURS

AU531411 RECEIVER DRIER 3/8" 24UNF165MM HIGH

H0384821 4V DC SINGLE SHAFT BRUSHED MOTOR

COMPANION ITEMS

PART NO.	DESCRIPTION
TFR7BX2	Rooftop Evaporator (7kW)
EB9P4X	Pressuriser
H0404765	Hydraulic Compressor 170 vertical
H0404764	Hydraulic Compressor 170 (Horizontal)
AU270307E	Engine Driven Compressor
AU2790311E	Engine Driven Compressor
AU270312E	Engine Driven Compressor

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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UNDERGROUND
EQUIPMENT



WHEEL LOADER



TCF8

FLOOR MOUNTED CONDENSER

TCF8BX1

8kW 24V Hinged Lid

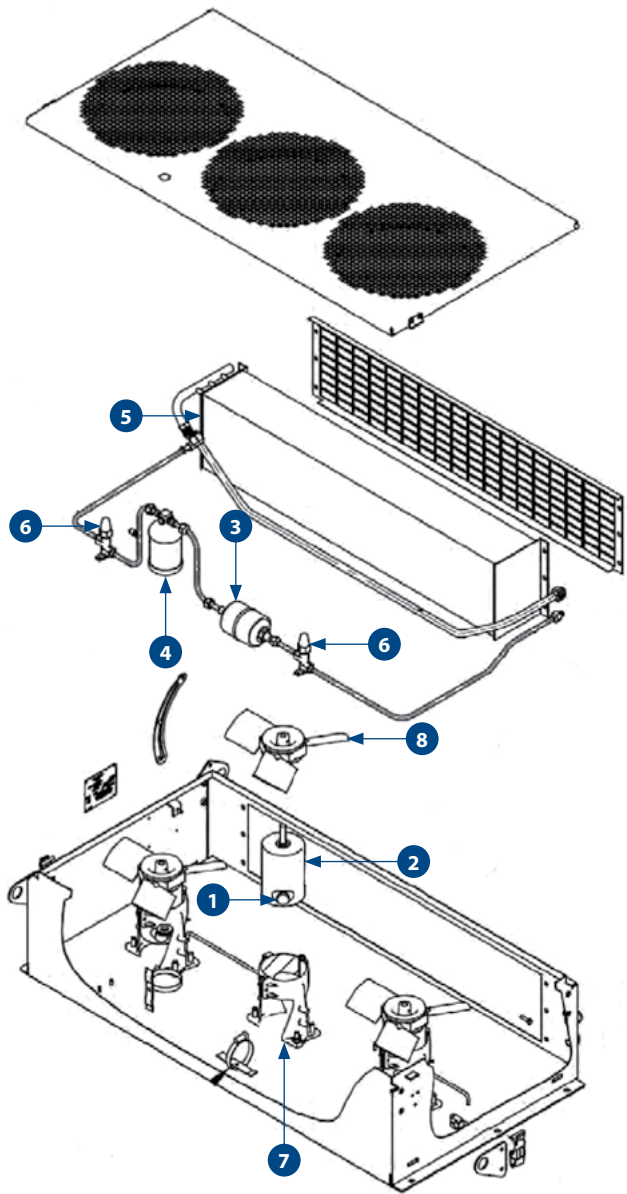
TCF8BX2

8kW 24V Removable Lid

 **COOLING**
7.0 kW
23884 BTU

 **AIR FLOW**
650 l/s
1377 CFM

 **POWER SUPPLY**
24 VDC



OBSOLETE
SUPPORT ONLY

SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 H0393309	MOTOR BRUSH 24VDC Previously AU320621	6
2 H0384821	24V DC SINGLE SHAFT BRUSHED MOTOR Previously UE026	3
3 AU531138	DRIER 3/8" MF	1
4 AU531411	RECEIVER DRIER 3/8" 24UNF 165MM HIGH	1
5 AU110009	CONDENSER COIL 946MM X 203MM X 132MM 6RW TCF8	1
6 AU517254	PCAV 3/8" SOLDER	2
7 UC028	CONDENSER MOTOR MOUNT	6
8 AU420229	FAN AXIAL 300MM 3 BLADES LB	3

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	8.0 kW	27296 BTU
Fan Speeds	1	1
Air Flow	980 l/s	2077 CFM
Power Supply	24V	24V
Current Draw	30 A	30 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	50.0 Kg	110.0 lbs
Technical Manual Reference	SM278-2715	SM278-2715
Dimension (L X W X H)	1236mm X 600mm X 294 mm	48.7in X 23.6in X 11.6in

MAINTENANCE

6 MONTHS / 2,400 HOURS

AU320622	BRUSH MOTOR 24VDC EACH HEAVY DUTY
H0393309	MOTOR BRUSH 24VDC

ANNUAL / 4,800 HOURS

AU531138	DRIER 3/8" MF
AU531411	RECEIVER DRIER 3/8" 24UNF165MM HIGH
H0384821	24V DC SINGLE SHAFT BRUSHED MOTOR

3 YEARS / 14,400 HOURS

H0472020	HIGH PRESSURE SWITCH ASSEMBLY
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COMPANION ITEMS

PART NO.	DESCRIPTION
H0406943	8kW Rooftop Evaporator (TFC8BX5)
H0407003	8kW Rooftop Evaporator (TFC8BX6)
EB9P4X	Pressuriser
H0404765	Hydraulic Compressor 170 vertical
H0404764	Hydraulic Compressor 200 horizontal
AU270307E	Engine Driven Compressor
AU2790311E	Engine Driven Compressor
AU270312E	Engine Driven Compressor

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.



DOZER



DRAGLINE & SHOVEL



DRILL



EXCAVATOR



FORKLIFT &
TELEHANDLERS



OVERHEAD CRANE



RAIL SPECIAL
VEHICLE



TRUCK



UNDERGROUND
EQUIPMENT



WHEEL LOADER



TDR7

ROOFTOP HVAC UNIT

TDR7BX1

7kW 24V Heating with 6kW Heating Flare Fittings

TDR7BX2

7kW 24V Heating with 6kW Heating O-Ring Fittings



OBSOLETE
SUPPORT ONLY



COOLING
7.0 kW
23884 BTU



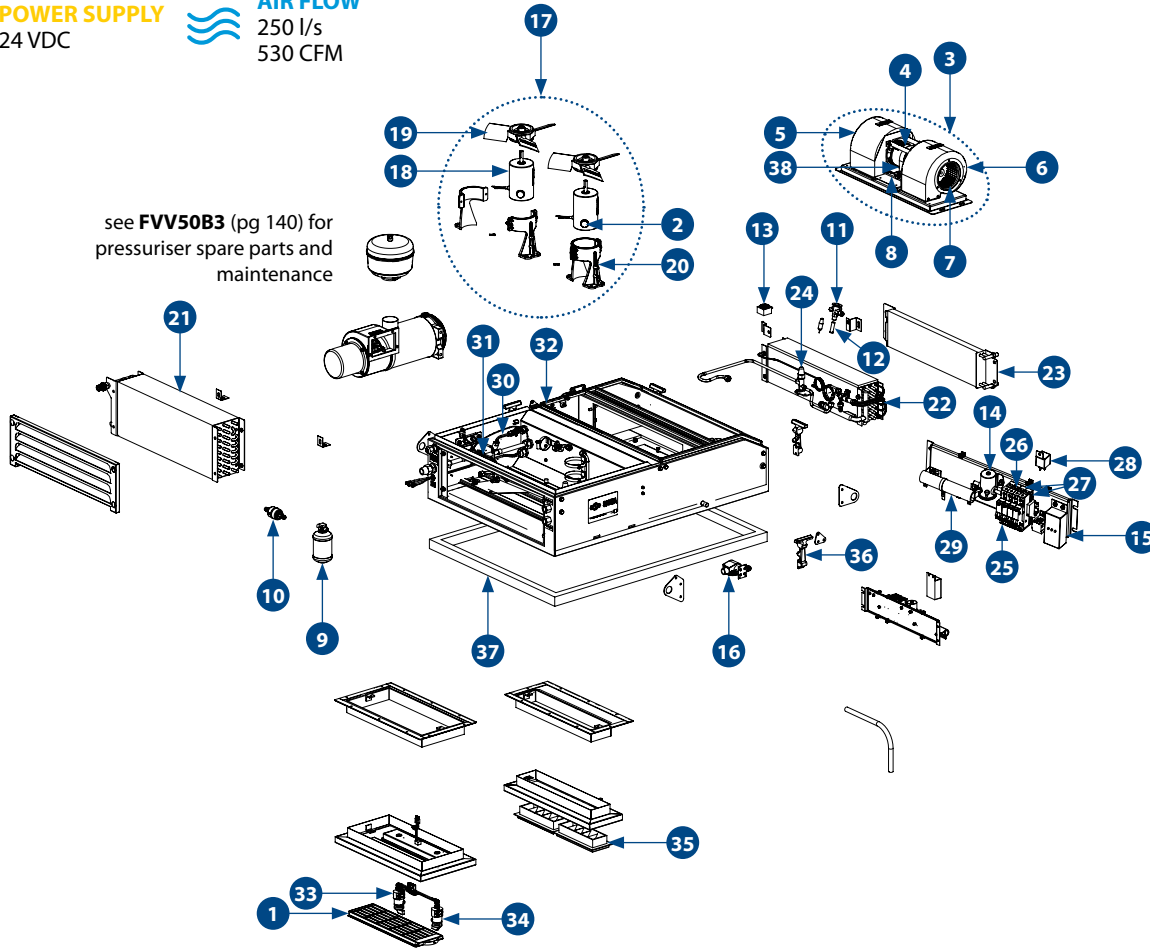
HEATING (OPTION)
6.0 kW
20472 BTU



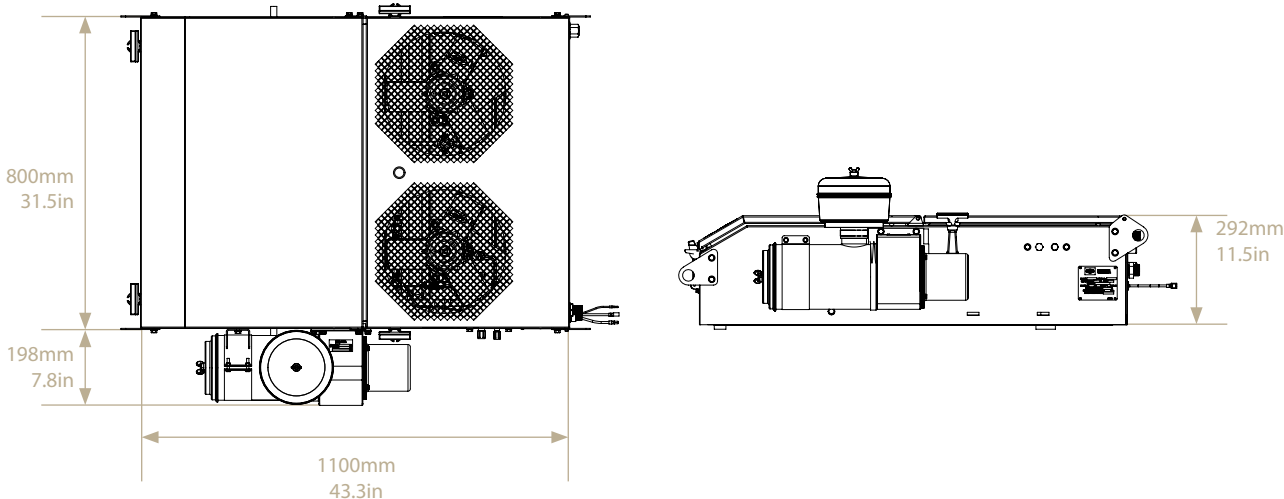
POWER SUPPLY
24 VDC



AIR FLOW
250 l/s
530 CFM



see **FVV50B3** (pg 140) for
pressuriser spare parts and
maintenance



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 MC0445	RETURN AIR FILTER ASSEMBLY	1
2 H0393309	BRUSH FOR MOTOR 24VDC EACH Previously AU320621	6
3 AS5000224	EVAPORATOR FAN ASSEMBLY 24V	1
4 H0384822	DOUBLE SHAFT 24V DC BRUSHED MOTOR Previously UE023	1
5 AS5000222	BLOWER HOUSING W/ASSEMBLY RH	1
6 AS5000223	BLOWER HOUSING W/ASSEMBLY LH	1
7 UF171	BLOWER 121D X 127W X 3/8" DUAL INLET	2
8 UC027	EVAPORATOR MOTOR MOUNT SUIT	1
9 AU531411	RECEIVER DRIER 3/8" 24UNF165MM HIGH	1
10 AU531357	DRIER 3/8" MF	1
11 AU521509	TX VALVE 2T 3/8" IN 1/2" OUT 1/4" EQ R134A	1
12 AU521508	TX ORIFICE 2T R22 #06	1
13 UE016	THERMOSTAT DEICE STUD	1
14 UE072	RELAY 24VDC 70A AUTOMOTIVE	1
15 AU681925	THERMOSTAT 12 - 24 VDC WITH SENSOR + POT	1
16 UE057	VALVE SOLENOID 1/4" BSP 24VDC WATER	1
17 AS5000170	CONDENSER FAN ASSEMBLY 24V	2
18 H0384821	SINGLE SHAFT 24V DC BRUSHED MOTOR Previously UE026	2
19 AU420229	FAN AXIAL 300MM 3 BLADES LB	2
20 UC028	CONDENSER MOTOR MOUNT SUIT	4
21 AU110631	CONDENSER COIL 600 X 229 X 132 6RW (TDR7BX1)	1
AU110029	CONDENSER COIL 600 X 229 X 123 6RW (TDR7BX2)	1
22 AU120954	EVAPORATOR COIL 570MM X 152MM X 95MM 6RW	1
23 AU130002	HEATER COIL 570 X 152 X 32 2RW	1
24 AU517254	PCAV 3/8" SOLDER	2
25 AU641091	CIRCUIT BREAKER 6A 1 POLE	1
26 AU641092	CIRCUIT BREAKER 25A 1 POLE	1
27 AU641119	CIRCUIT BREAKER 16A 1 POLE	2
28 AU661483	RELAY 20A 24VDC 5 PIN	1
29 AU692105	RESISTOR 2 OHM 100W 1 CLIPS ADJUSTABLE	1
30 AU523655	HIGH PRESSURE SWITCH 1/4" FF 2415kPa	1
31 AU523365	LOW PRESSURE SWITCH 1/4" FF 205kPa	1
32 AU862211	LID RUBBER SEAL	6
33 AU663562	ROTARY SWITCH MODE	1
34 AU663563	ROTARY SWITCH FAN	1
35 UC901	DIFFUSER 246MM X 104MM	2
36 AU851590	TOGGLE CLAMP RUBBER	4
37 S5000159	UNIT TO CAB SEAL	1
38 S5006029	MOTOR MOUNT CLAMP 97MM	1
UE700	CIRCUIT BEAKER 40A STUD TYP MANUAL	1
UC504	DRAIN NOZZLE 13MM	4

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	7.0 kW	23884 BTU
Heating Capacity	6.0 kW	20472 BTU
Fan Speeds	3	3
Air Flow	250 l/s	530 CFM
Fresh Air	30 l/s	64 CFM
Power Supply	24V	24V
Current Draw	33.5 A	33.5 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	110.0 Kg	242.0 lbs
Technical Manual Reference	SM395-5000	SM395-5000
Dimension (L X W X H)	1100mm X 800mm X 292mm	43.3in X 31.5in X 11.5in

MAINTENANCE

MONTHLY / 400 HOURS

MC0445	RETURN AIR FILTER ASSEMBLY
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6 MONTHS / 2,400 HOURS

H0393309	BRUSH FOR MOTOR 24VDC EACH
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ANNUAL / 4,800 HOURS

H0384822	DOUBLE SHAFT 24V DC BRUSHED MOTOR
H0384821	SINGLE SHAFT 24V DC BRUSHED MOTOR
AU531411	RECEIVER DRIER 3/8" 24UNF165mm HIGH
AU531357	DRIER 3/8" MF

COMPANION ITEMS

PART NO.	DESCRIPTION
H0404765	Hydraulic Driven Compressor 170 (V)
H0404764	Hydraulic Driven Compressor 200 (H)
AU270306	Engine Driven Compressor
AU270307	Engine Driven Compressor

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.

TDR10

REFRIGERATION & ASSEMBLY

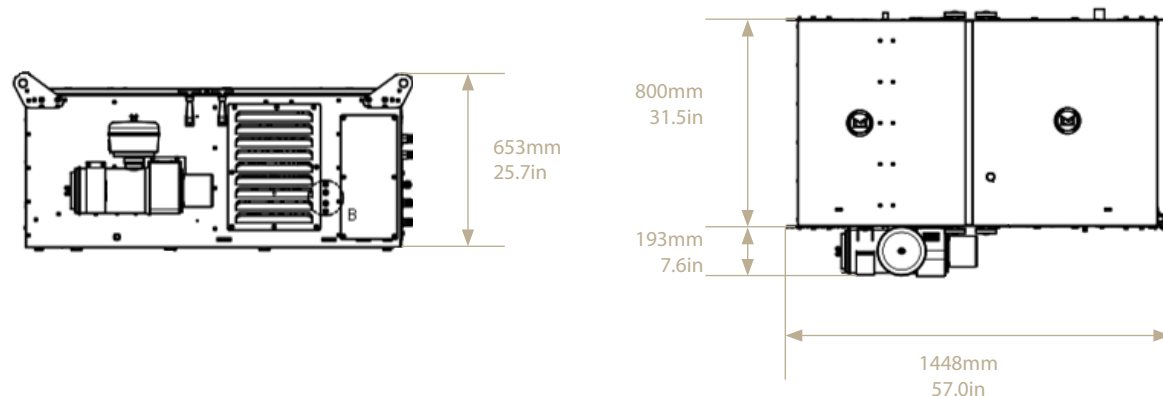
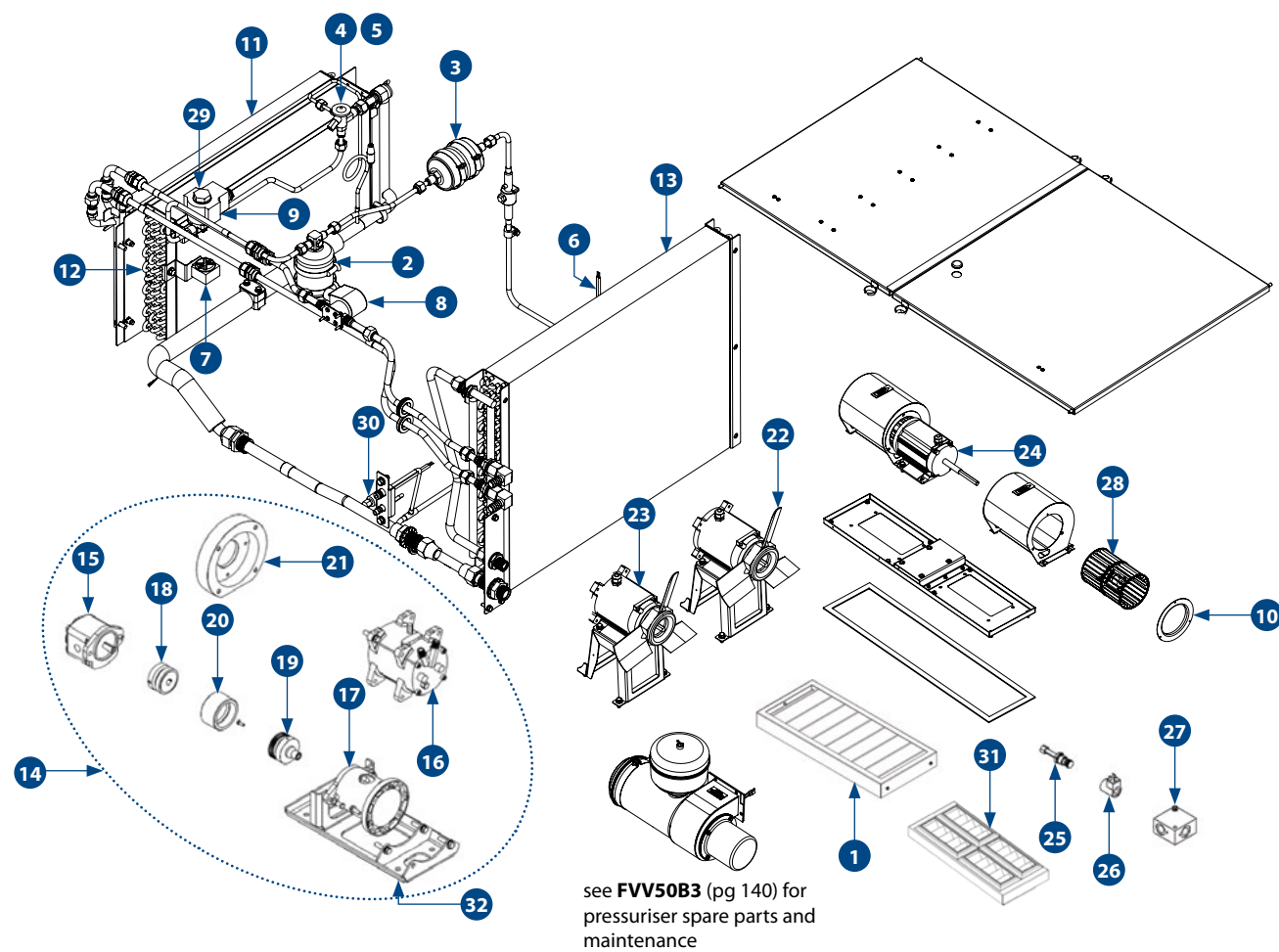
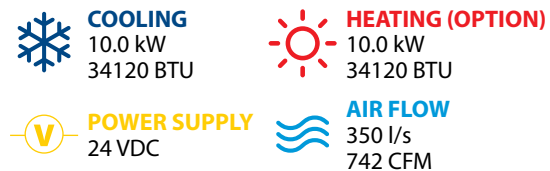
ROOFTOP HVAC UNIT

TDR10BX1

10kW 24V Heating

TDR10BX2

10kW 24V Heating with Hydraulic Compressor



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AS3754056 S3754098	RETURN AIR FILTER ASSEMBLY RETURN AIR FILTER MEDIA	1 1
2 AU531411	RECEIVER DRIER 3/8" 24UNF 165MM HIGH	1
3 AU531138	DRIER 3/8" MF	1
4 AU521509	TX VALVE 2T 3/8" IN 1/2" OUT 1/4" EQ R134A	1
5 AU521508	TX ORIFICE 2T R22 #06	1
6 AU523655	HIGH PRESSURE SWITCH 1/4" FF 2415kPa	1
7 UE016	THERMOSTAT DEICE STUD	1
8 UE057	VALVE SOLENOID 1/4" BSP 24VDC WATER	1
9 AU522021	SOLENOID VALVE 3/8" SOLDER NC	1
10 AU410902	INLET RING 105MM	4
11 AU130036	HEATER COIL 570MM X 305MM X 33MM 2RW TDR10	1
12 AU120036	EVAPORATOR COIL 570MM X 305MM X 83MM (BX1)	1
13 AU110036	CONDENSER COIL 650MM X 533MM X 66MM	1
14 AS3754098	COMPRESSOR ASSY (BX2)	1
15 AU340000	MOTOR HYDRAULIC DRIVE 14CC (BX2)	1
16 AU270019E	COMPRESSOR VMO NO CLUTCH (BX2)	1
17 AS509727	COMPRESSOR MOTOR HOUSING (BX2)	1
18 AS509742	COUPLING MALE MOTOR (BX2)	1
19 H0130377	COUPLING MALE-COMPRESSOR (BX2)	1
20 AS509744	COUPLING FEMALE (BX2)	1
21 AS509746	ADAPTOR PLATE COMPRESSOR (BX2)	1
22 AU420227	FAN AXIAL 300MM 3 BLADES RA	2
23 AU320032	MOTOR 0.15kW 71 FT 4P 24VDC S/S	2
24 AU320033	MOTOR 0.37kW 71 FT 4P 24VDC D/S	1
25 AU522000	SOLENOID VALVE CARTRIDGE SIZE 12 (BX2)	1
26 AU522001	SOLENOID VALVE COIL (BX2)	1
27 AU522003	SOLENOID VALVE BODY SIZE 12 3/4" BSPP (BX2)	1
28 AU410105	BLOWER 120D X 178W X 3/8 CW DUAL INLET	2
29 AU668140	COIL SOLENOID 24VDC TYPE 1	1
30 AU523365	LOW PRESSURE SWITCH 1/4" FF 205kPa	1
31 UC901	DIFFUSER 246MM X 104MM	4
32 UC269	ANTI VIBRATION MOUNT 1/2" -20UNF	4
AS3754102	HOSE - HYDRAULIC MOTOR DRAINAGE (BX2)	1
AS3754103	HOSE - SOLENOID VALVE IN (BX2)	1
AS3754104	HOSE - SOLENOID VALVE OUT (BX2)	1
AS3754106	HOSE - REFRIGERATION COMP DISCHARGE (BX2)	1
AS3754107	HOSE - REFRIGERATION COMP SUCTION (BX2)	1
AS3754116	HOSE - HYDRAULIC MOTOR IN (BX2)	2
UC504	DRAIN NOZZLE 13MM	4
AU862211	LID RUBBER SEAL	7
AU230644	VALVE SERVICE 5/8" WITH ACCESS PORT (BX2)	1
AU230C011	VALVE 1/2 TUBE #8 R134A DISCHARGE (BX2)	1
AU512C067	BULKHEAD FTG O-RING 5/8"	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	10.0 kW	34120 BTU
Heating Capacity	10.0 kW	34120 BTU
Fan Speeds	3	3
Air Flow	350 l/s	742 CFM
Fresh Air	30 l/s	64 CFM
Power Supply	24V	24V
Current Draw	33 A	33 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	220.0 Kg	484.0 lbs
Technical Manual Reference	SM478-3754	SM478-3754
Dimension	1448mm X 800mm X 653mm	57.0in X 31.5in X 25.7in

MAINTENANCE

MONTHLY / 400 HOURS

AS3754056	RETURN AIR FILTER ASSEMBLY
S3754098	RETURN AIR FILTER MEDIA

ANNUAL / 4,800 HOURS

AU531411	RECEIVER DRIER 3/8" 24UNF165MM HIGH
AU531138	DRIER 3/8" MF

3 YEARS / 14,400 HOURS

AU521509	TX VALVE 2T 3/8"IN 1/2"OUT 1/4"EQ R134A
AU521508	TX ORIFICE 2T R22 #06
AU523655	HIGH PRESSURE SWITCH 1/4" FF 2415kPa
AU523365	LOW PRESSURE SWITCH 1/4" FF 205kPa
UE016	THERMOSTAT DEICE STUD
UE057	VALVE SOLENOID 1/4" BSP 24VDC WATER
AU522021	SOLENOID VALVE 3/8" SOLDER NC
AU862211	LID RUBBER SEAL
UC269	ANTI VIBRATION MOUNT 1/2" -20UNF (BX2)

COMPANION ITEMS

PART NO.	DESCRIPTION
H0404767	Hydraulic Driven Compressor 200 (Vertical) for TDR10BX1
H0404766	Hydraulic Driven Compressor 200 (Horizontal) for TDR10BX1
AU270314E	Engine Driven Compressor (TDR10BX1)
AU270318E	Engine Driven Compressor (TDR10BX1)
H0548912	3Ph vert scroll kit



DOZER



DRAGLINE & SHOVEL



DRILL



EXCAVATOR



FORKLIFT & TELEHANDLERS



OVERHEAD CRANE



RAIL SPECIAL VEHICLE



TRUCK



UNDERGROUND EQUIPMENT



WHEEL LOADER



TDR10

ELECTRICAL

ROOFTOP HVAC UNIT

TDR10BX1

10kW 24V Heating

TDR10BX2

10kW 24V Heating with Hydraulic Compressor

 **COOLING**
10.0 kW
34120 BTU

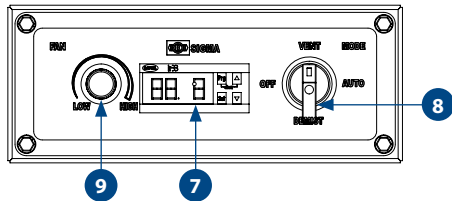
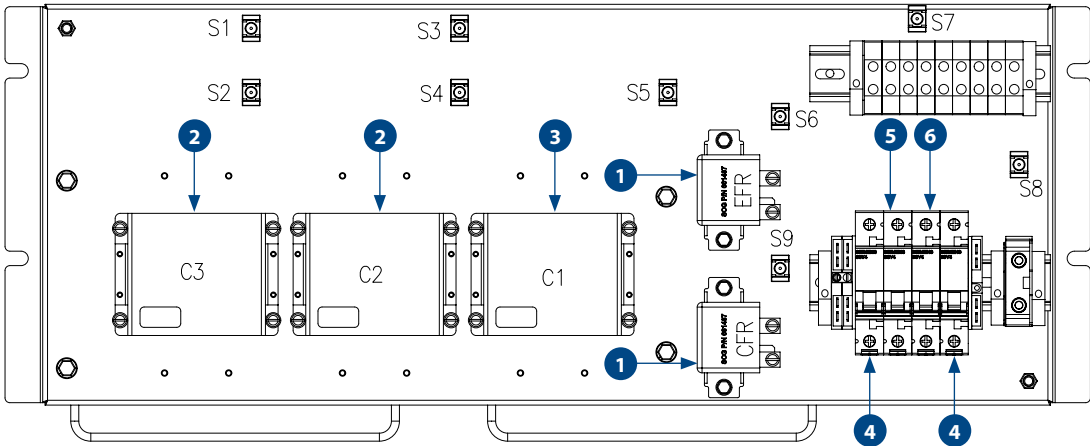
 **HEATING (OPTION)**
10.0 kW
34120 BTU

 **POWER SUPPLY**
24 VDC

 **AIR FLOW**
350 l/s
742 CFM



OBSOLETE
SUPPORT ONLY



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU661487	RELAY 50A 24VDC 1 POLE	2
2 AU6761003	MOTOR CONTROL CONDENSER 24V 30A	2
3 AU6761004	MOTOR CONTROL EVAPORATOR 24V 30A	1
4 AU641092	CIRCUIT BREAKER 25A 1POLE	2
5 AU641091	CIRCUIT BREAKER 6A 1POLE	1
6 AU641090	CIRCUIT BREAKER 10A 1POLE	1
7 AU681960	THERMOSTAT DIGITAL 24V 2 STAGE	1
8 AU663117	ROTARY SWITCH 4 POSITION	1
9 UC451	KNOB 1/4 BLACK PLASTIC 21mm DIA	1
AU641070	CIRCUIT BREAKER 63A 1POLE	1
AU681961	THERMOSTAT SENSOR PROBE NTC WITH LEAD	1
AU6791057	POTENTIOMETER ASSEMBLY - CABLE JST	1

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	10.0 kW	34120 BTU
Heating Capacity	10.0 kW	34120 BTU
Fan Speeds	3	3
Air Flow	350 l/s	742 CFM
Fresh Air	30 l/s	64 CFM
Power Supply	24V	24V
Current Draw	33 A	33 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	220.0 Kg	484.0 lbs
Technical Manual Reference	SM478-3754	SM478-3754
Dimension	1484mm X 833mm X 650mm	57.0in X 31.5in X 25.7in

MAINTENANCE

3 YEARS / 14,400 HOURS

AU661487 RELAY 50A 24VDC 1 POLE

AU681960 THERMOSTAT DIGITAL 24V 2 STAGE

COMPANION ITEMS

PART NO.	DESCRIPTION
H0404767	Hydraulic Driven Compressor 200 (Vertical) for BX1
H0404766	Hydraulic Driven Compressor 200 (Horizontal) for BX1
AU270314E	Engine Driven Compressor (TDR10BX1)
AU270318E	Engine Driven Compressor (TDR10BX1)
H0548912	3Ph vert scroll kit

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.



DOZER



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OVERHEAD CRANE



RAIL SPECIAL
VEHICLE



TRUCK



UNDERGROUND
EQUIPMENT



WHEEL LOADER



TFC6BX1

CEILING EVAPORATOR

TFC6BX1

6kW 24V with Heating (6kW)

**COOLING**
6.0 kW
20472 BTU

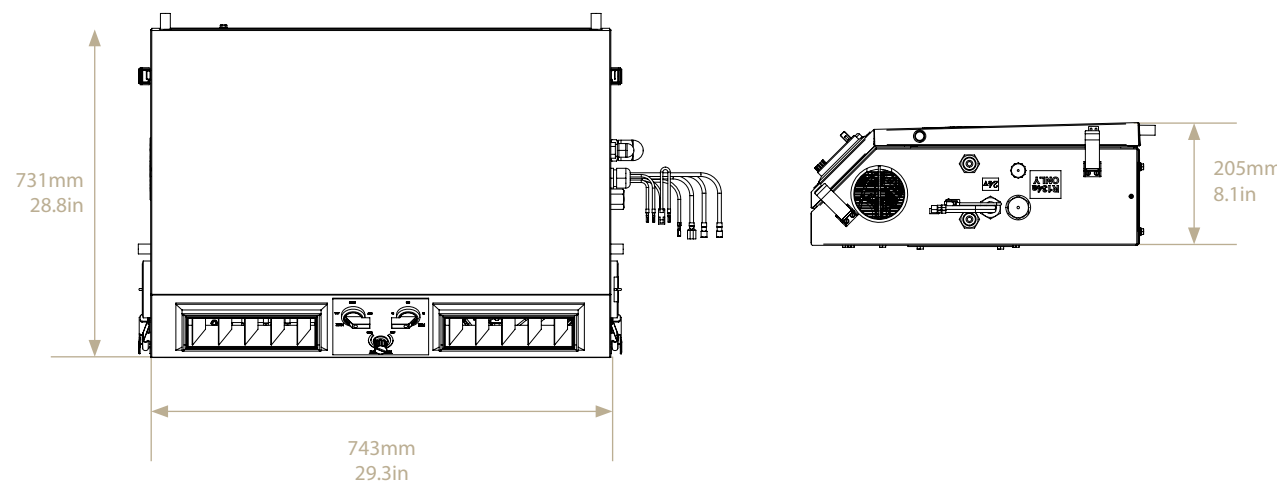
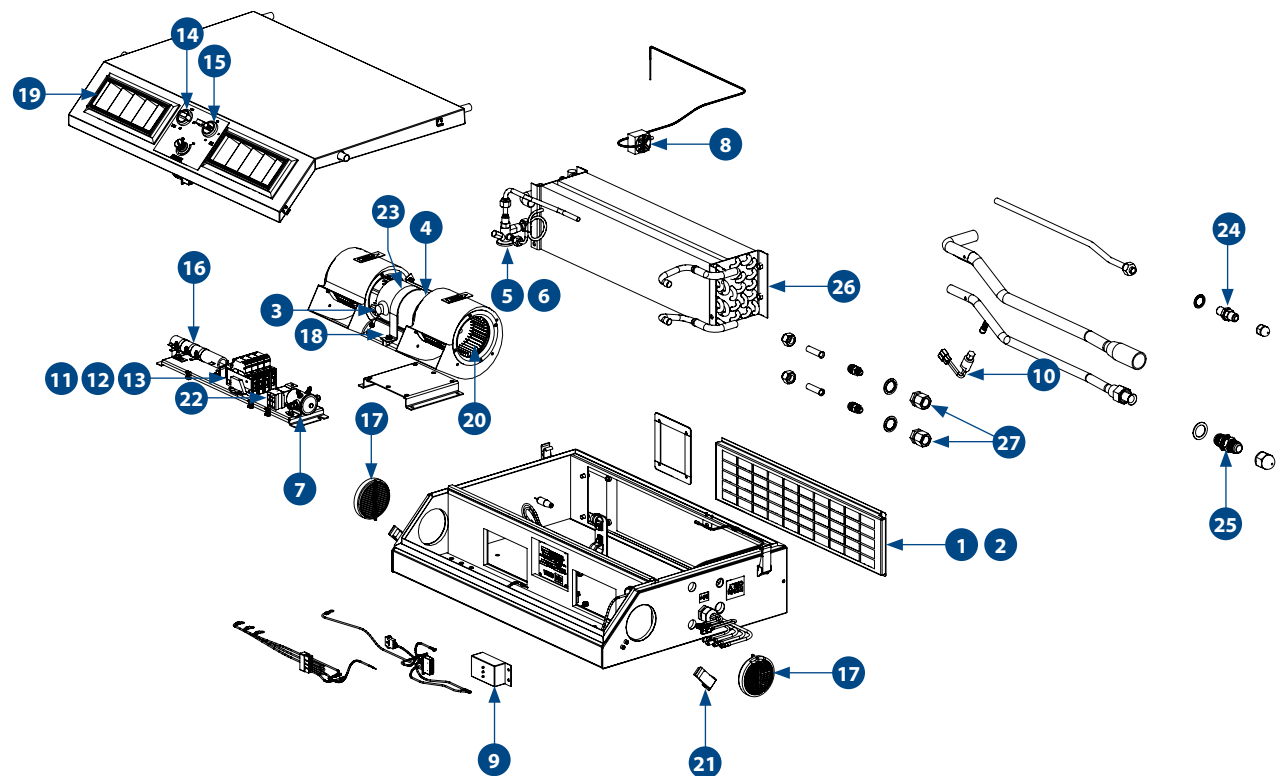
**HEATING (OPTION)**
6.0 kW
20472 BTU

**POWER SUPPLY**
24V

**AIR FLOW**
250 l/s
530 CFM



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SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AS502003	RETURN AIR FILTER	1
2 H0467593	RETURN AIR FILTER MEDIA Previously UC151	1
3 H0393309	MOTOR BRUSH 24VDC Previously AU320621	2
4 H0384822	DOUBLE SHAFT 24V DC BRUSHED MOTOR Previously UE023	1
5 AU521509	TX VALVE 2T 3/8" IN 1/2" OUT 1/4" EQ R134A	1
6 AU521505	TX ORIFICE 2T R22 #05	1
7 UE072	RELAY 24VDC 70A AUTOMOTIVE	1
8 UE016	THERMOSTAT DEICE STUD	1
9 AU681925	THERMOSTAT 12-24VDC WITH SENSOR + POT	1
10 AU523365	LOW PRESSURE SWITCH 1/4" FF 205kPa	1
11 AU641091	CIRCUIT BREAKER 6A 1POLE	1
12 AU641092	CIRCUIT BREAKER 25A 1POLE	2
13 AU641119	CIRCUIT BREAKER 16A 1 POLE	1
14 AU663562	ROTARY SWITCH MODE	1
15 AU663563	ROTARY SWITCH FAN	1
16 AU692107	RESISTOR 2 OHM 100W 3 CLIPS ADJUSTABLE	2
17 AU821704	DIFFUSER ROUND 92MM PVC	2
18 UC027	EVAPORATOR MOTOR MOUNT	2
19 UC901	DIFFUSER 246MM X 104MM	1
20 UF048	BLOWER 108D X 104W X DUAL INLET	2
21 UC310	LATCH OVERCENTRE SS	4
22 AU661483	RELAY 20A 24VDC 5 PIN	1
23 S5006029	MOTOR MOUNT CLAMP 97MM	1
24 UR008	BULKHEAD FITTING 1/2" MF	1
25 UR010	BULKHEAD FITTING 3/4" MF	1
26 AU120603	EVAPORATOR+HEATER COIL 600x153x79+33	1
27 AU872310	BULKHEAD FITTING 1/2BSP X 1/4BSP Previously UR009	2
UE700	CB TEXAS CDM-40A 8945 KLI,	1
AU681926	POT LINEAR 10kOHM WITH PLUG	1
UE057	VALVE SOLENOID 1/4" BSP 24VDC WATER	1
UC096	FTG P3 5/8 STR BRB X 1/4 MBSPT	2

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	6.0 kW	20472 BTU
Heating Capacity	6.0 kW	20472 BTU
Fan Speeds	3	3
Air Flow	250 l/s	530 CFM
Fresh Air	30 l/s	64 CFM
Power Supply	24V	24V
Current Draw	10.5 A	10.5 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	36.0 Kg	79.2 lbs
Technical Manual Reference	SM395-5000	SM395-5000
Dimension (L X W X H)	743mm X 731mm X 205mm	29.3in X 28.8in X 8.1in

MAINTENANCE

MONTHLY / 400 HOURS

AS502003S	RETURN AIR FILTER
H0467593	RETURN AIR FILTER MEDIA
H0393309	MOTOR BRUSH 24VDC

ANNUAL / 4,800 HOURS

H0384822	DOUBLE SHAFT 24V DC BRUSHED MOTOR
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3 YEARS / 14,400 HOURS

AU521509	TX VALVE 2T 3/8"IN 1/2"OUT 1/4"EQ R134a
AU521505	TX ORIFICE 2T R22 #05
AU523365	LOW PRESSURE SWITCH 1/4" FF 205kPa
UE016	THERMOSTAT DEICE STUD
UE072	RELAY 24VDC 70A AUTOMOTIVE
AU661483	RELAY 20A 24VDC 5 PIN
UE057	VALVE SOLENOID 1/4" BSP 24VDCC WATER
AU681925	THERMOSTAT 12-24VDC WITH SENSOR + POT

COMPANION ITEMS

PART NO.	DESCRIPTION
TCF7BX2	Electric Condenser
EB9P4X	Pressuriser
H0404765	Hydraulic Compressor 170 (Vertical)
H0404764	Hydraulic Compressor 170 (Horizontal)
AU270306	Engine Driven Compressor
AU270307	Engine Driven Compressor
AU531411	Receiver Drier
AU531422	Receiver Drier



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OVERHEAD CRANE



RAIL SPECIAL
VEHICLE



TRUCK



UNDERGROUND
EQUIPMENT



WHEEL LOADER



TFC8

CEILING EVAPORATOR

TFC8BX1

8kW 24V

TFC8BX2

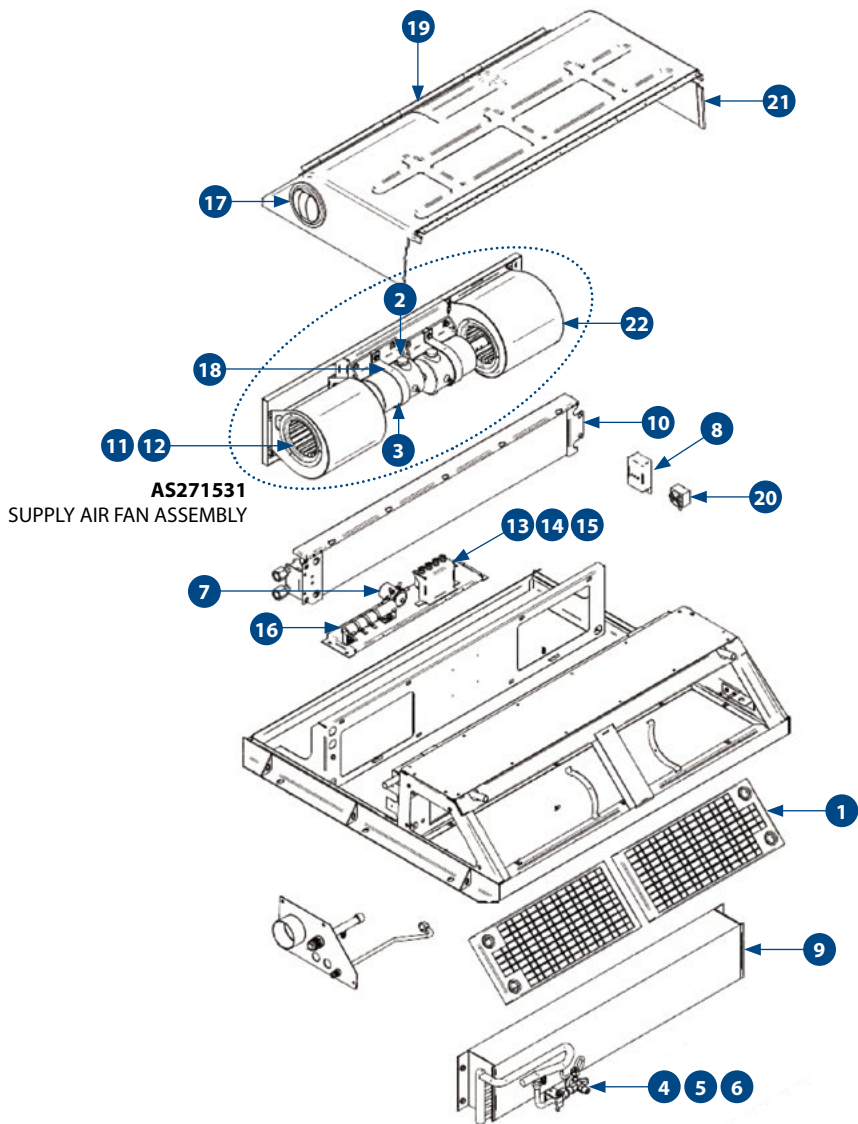
8kW 24V with Electric Heating

 **COOLING**
8.0 kW
27296 BTU

 **HEATING (OPTION)**
11.0 kW
37533 BTU

 **POWER SUPPLY**
24V

 **AIR FLOW**
325 l/s
689 CFM



OBSOLETE
SUPPORT ONLY

SPARE PARTS

PART NO.	DESCRIPTION	QTY
1	AS271535 RETURN AIR FILTER	2
2	H0393309 MOTOR BRUSH 24VDC	4
3	H0384821 24V DC SINGLE SHAFT BRUSHED MOTOR	2
4	AU521509 TX VALVE 2T 3/8" IN 1/2" OUT 1/4" EQ R134A	1
5	AU521508 TX ORIFICE 2T R22 #06	1
6	AU523365 LOW PRESSURE SWITCH 1/4" FF 205kPa	1
7	UE072 RELAY 24VDC 70A AUTOMOTIVE	1
8	H0262987 THERMOSTAT Previously AU681925	1
9	AU120394 EVAPORATOR COIL 864MM X 166MM X 95MM 4RW TFC8	1
10	AU130009 HEATER COIL 864MM X 152MM X 32MM 2RW TFC8	1
11	AU410105 BLOWER 120D X 178W X 3/8 CW DUAL INLET	2
12	AU410902 INLET RING 105MM	4
13	AU641065 CIRCUIT BREAKER 25A PUSH PULL	1
14	AU641067 CIRCUIT BREAKER 35A PUSH PULL	1
15	AU641C111 CIRCUIT BREAKER 5A PUSH PULL	2
16	AU692107 RESISTOR 2 OHM 100W 3 CLIPS ADJUSTABLE	1
17	AU821300 DIFFUSER ROUND 120MM POLYAMIDE	2
18	UC027 EVAPORATOR MOTOR MOUNT	2
19	UC901 DIFFUSER 246 X 104MM	3
20	UE016 THERMOSTAT DEICE STUD	1
21	AS271543 TFC8 COVER ASSEMBLY	1
22	AS198603 SUPPLY AIR BLOWER ASSEMBLY	2
AS271531	SUPPLY AIR FAN ASSEMBLY	1
AS271576	HEATER ASSEMBLY (TFC8BX2)	1
AU641612	CIRCUIT BREAKER 16A 3POLE (TFC8BX2)	1
UE699	CIRCUIT BREAKER 60A STUD TYP MANUAL (TFC8BX1)	1
AU651346	CONTACTOR 12A 24VDC 3 POLE 1NO 1NC (TFC8BX2)	2
AU663563	ROTARY SWITCH A B C D FAN	1
AU663569	ROTARY SWITCH MODE	1
AU691191	HEATER U SHAPE 2.0kW 240V 675MM SS FIN (TFC8BX2)	3
UE057	VALVE SOLENOID 1/4" BSP 24VDC WATER	1
AU662410	SWITCH KEYED 20A (BX2)	1
AU853505	LEAF SPRING 145MM X 25 MM	2
AU872135	SHAFT EXTENSION 1/2" FEMALE X 1/2" MALE	2
AU935432	FLAT NEOPRENE EXTRUSION	1
UC020	HOSE CLEAR PVC 12 5MM ID	10
UC031	FASTENER ASSEMBLY 1/4 TURN - STUD & RECEIPT	3
UC096	FITTING P3 5/8 STR BRB X 1/4 MBSPT (TFC8BX1)	2
UC504	DRAIN NOZZLE 13MM	4

SPECIFICATIONS

	METRIC	IMPERIAL
Cooling Capacity	8.0 kW	27296 BTU
Heating Capacity	11.0 kW 6kW	37,533 BTU 20473 BTU
Fan Speeds	3	3
Air Flow	325 l/s	689 CFM
Fresh Air	30 l/s	64 CFM
Power Supply	24V	24V
Current Draw	30 A	30 A
Refrigerant	R134a	R134a
Maximum Ambient Temperature	54°C	129°F
Weight (nominal)	70.0 Kg	154.0 lbs
Technical Manual	SM278-2715	SM278-2715
Dimension (L X W X H)	1100mm X 900mm X 221mm	43.3in X 35.4in X 8.7in

MAINTENANCE

MONTHLY / 400 HOURS

AS271535	RETURN AIR FILTER
AS271535S	RETURN AIR FILTER - DISPOSABLE OPTION

ANNUAL / 4,800 HOURS

AU320622	BRUSH MOTOR 24VDC EACH HEAVY DUTY
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3 YEARS / 14,400 HOURS

AU521509	TX VALVE 2T 3/8" IN 1/2" OUT 1/4" EQ R134a
AU521508	TX ORIFICE 2T R22 #06
AU523365	LOW PRESSURE SWITCH 1/4" FF 205kPa
UE072	RELAY 24VDC 70A AUTOMOTIVE
UE057	VALVE SOLENOID 1/4" BSP 24VDC WATER
AU681925	THERMOSTAT 12-24VDC WITH SENSOR + POT

COMPANION ITEMS

PART NO.	DESCRIPTION
AS271535S	RETURN AIR FILTER - DISPOSABLE OPTION
TCF8BX2	Electric Condenser
EB9P4X	Pressuriser
H0404767	Hydraulic Driven Compressor 200 (Vertical)
H0404766	Hydraulic Driven Compressor 200 (Horizontal)
AU110240	Radiator Condenser
AU1102401	Radiator Condenser
AU270306	Engine Driven Compressor
AU270307	Engine Driven Compressor
AU270314	Engine Driven Compressor
AU2701001	Engine Driven Compressor
AU531411	Receiver Drier
AU531422	Receiver Drier



POLICIES

- SAFETY & QUALITY
- CORPORATE RESPONSIBILITY
- KNORR EXCELLENCE
- SUSTAINABILITY RATINGS AND RANKINGS
- TERMS & CONDITIONS

“More than one billion people worldwide rely on Knorr-Bremse systems every day.”

That's why safety comes first for Knorr-Bremse and SIGMA. By developing, producing, guaranteeing and delivering the highest quality, each one of us shares the ongoing responsibility for ensuring the safety of people who rely on our products. Our commitment to safety, quality and the environment guides and assists us everyday, in everything we do.

SAFETY



- We develop and provide products and systems with high reliability for the safe operation of vehicles based on the needs of our customers and adapted from sustainable principles.
- We strive to be the technology and market leader for product safety throughout the entire product life cycle.
- Management assumes responsibility for ensuring SIGMA products comply with safety requirements.
- We are committed to creating the organisational conditions needed to achieve our safety objective.
- We are actively involved in the relevant committees and boards and meet the requirements of all necessary safety standards.
- We provide a safe and healthy work environment and promote the prevention of illness and injury.

QUALITY



- We strive to design and produce products and systems with zero defects through the entire supply chain and being the industry benchmark in quality and product safety.
- We are committed to continuously improve the quality of our products and services.
- We comply with the requirements and continually improve the effectiveness of our quality management system.

ENVIRONMENT



- We are committed to the protection of the environment through a sustainable use of natural resources and energy.
- We promote the procurement of energy efficient products and services.
- We will prevent / minimise the impact of our processes, services and products on the environment, and improve the energy efficiency of our products both in manufacture and in application.
- We integrate energy and environmental considerations into our business processes and product design by consistently supporting the development and dissemination of safe and environmentally-friendly technologies.
- We are committed to continuously improving our energy and environmental performance through the establishment and communication of measurable goals, ensuring that the necessary personnel, technical and financial resources are provided.
- We openly communicate the energy and environmental impacts of our products and operations to employees, suppliers, customers, government and the public.
- We develop and support our suppliers and partners to adopt our approach to corporate responsibility.
- We establish company standard practices, where laws or regulations are not adequately protective or do not exist.

CORPORATE RESPONSIBILITY

Knorr-Bremse Global is consistently working on developing innovative products and solutions that combine a high level degree of customer value with a contribution to sustainable development. Safety is always our overriding goal.



We work closely with our customers and suppliers to jointly ensure continuous improvement of product quality and minimal undesirable impact on the environment and society.

Knorr-Bremse would like to ensure that its commitment to responsible conduct is also found in the supply chain. For this reason we have started to integrate sustainability aspects into the Group's procurement structures.

Suppliers of direct material must comply with the relevant quality management guidelines for the business unit concerned as well as the technical specifications set out by engineering. This ensures Knorr-Bremse and SIGMA are able to supply components that meets specified performance requirements for the manufacturing of our HVAC equipment and to support After market requirements.



KNORR EXCELLENCE

In 2007, Knorr-Bremse Group developed an Excellence model which describes the vision in which the company progresses from “very good” to “excellent” in reaching its strategic goals. The Knorr-Bremse Excellence (KE) is particularly important given that quality is the top requirement for Knorr-Bremse as a manufacturer of safety-critical systems.

CLIMATE STRATEGY 2030

CLIMATE STRATEGY 2030

The climate strategy we have adopted for 2030 supersedes the climate protection objectives set in 2015. Knorr-Bremse aims to halve its sites’ CO2 emissions by 2030. In addition, we are committed to the goal of carbon neutrality for our sites from 2021 onward.



PEOPLE EXCELLENCE

PEX – People Excellence – initiative was first launched in 2010 with a clear focus on strengthening personnel development processes and tools. PEX remains a constant focus to maintain our position as an attractive employer, contribute to sustainability through flexible work arrangements and enhance Human Resource values.



Q-FIRST

Safety, reliability and quality of our products are essential for a successful future of Knorr-Bremse. Seemingly minor oversights from the vendor in development or production can jeopardise the success of Knorr-Bremse and SIGMA. As a manufacturer of active vehicle safety systems, it is our highest obligation to deliver error-free products. The Q-First initiative ensures our quality control procedures are a top priority.



SUPPLY CHAIN EXCELLENCE

The over-arching supply chain is the operational processes for reliable delivery to our customers. The “Supply Chain Excellence” initiative is central to achieving the Knorr Excellence performance benchmark. The motto of SCE is “Simple, fast, direct, reliable.”



SIX SIGMA

The Six Sigma program was introduced at Knorr-Bremse to focus on continuous process improvement, improve our customer experience and build better leaders. From 2003 more than 100 Black Belts and more than 400 Green Belts have been trained around the globe. The savings from certified improvement projects has exceeded €6 million in cost reduction & avoidance.

SUSTAINABILITY RATINGS AND RANKINGS

Knorr-Bremse commitment to sustainability is evaluated regularly and recognized as part of external ratings and rankings. They are important to us as they confirm our direction and alert us to potential improvements. Using sustainability ratings and rankings, we analyse and evaluate the external perception of our sustainability performance. The comparison with our peers and early detection of trends gives us findings that we use to develop our sustainability management further. Knorr-Bremse has already received many above-average ratings for its sustainability measures and was able to improve further on a number of relevant ratings during the reporting period.

ESG RATINGS AND RANKINGS

DAX® 50 ESG

DAX®50 ESG

Knorr-Bremse has been listed in the index since it started. It represents the top 50 companies in Germany based on their ESG performance, market capitalization and revenue.



S&P Global Corporate Sustainability Assessment

Knorr-Bremse scored 51 out of 100 points (2022: 50; 2021: 52), putting it in the top 21% of the comparison group. The S&P Global Corporate Sustainability Assessment takes into account economic criteria as well as environmental and social criteria based on the best-in-class principle. The most sustainable companies in an industry are added to the index.



MSCI

KnorrBremse rating of “AA” was confirmed for the reporting year 2023 (2022: AA, 2021: A), the second-best of seven categories. MSCI ESG ratings score companies on a scale from “AAA” to “CCC” with regard to their industry specific ESG risks and their risk management.



ISS ESG

Knorr Bremse improved to the prime status of “B” (2022: C+, 2021: C+), thus putting Knorr Bremse among the best 12% in an industry comparison. ISS ESG assesses a company’s sustainability performance on a scale from “A+” to “D.”



Morningstar Sustainability

Knorr-Bremse scored 13.8 out of a total of 100 risk points (2022: 19.5; 2021: 18.9) and was therefore classified as low risk (top 1% of the comparison group). Sustainability categorizes ESG risks across five risk levels (negligible, low, medium, high and severe).



CDP

Knorr Bremse received an improved rating of “A” for transparency and performance on climate protection (2022: C, 2021: B). This meant that Knorr-Bremse achieved the leadership level of CDP, putting it above the European average (B) and the global sec-tor average (C). Within the comparison group Knorr Bremse is among the top 21%. CDP rates companies on climate protection according to a scale from “A” to “D–”, with “A” being the highest.



EcoVadis

Knorr-Bremse is currently scored with Gold (2023: Silver status; 2022: Silver status) and is therefore among the top 3% of companies in the comparison group. EcoVadis rates corporations from 180 countries in the categories of Environment, Labor & Human Rights, Ethics and Sustainable Procurement, awarding a status of Platinum, Gold, Silver or Bronze.



SAQ – Sustainability Self-Assessment Questionnaire by Drive Sustainability

20 Knorr Bremse sites are rated within a range from 84% to 92% (2022: 18 sites within a range from 81% to 93%, 2021: 17 sites within a range from 80% to 93%). The Self-Assessment Questionnaire (SAQ) is a supplier questionnaire of the auto-motive (supplier) industry. It rates the sustainability management of a company’s individual locations on a scale from 0% to 100%.

TERMS & CONDITIONS OF SALE & DELIVERY

I. General

- 1. Only the Terms of Sale and Delivery as printed herein shall be applicable.
- 2. Any deviations from our Terms of Sale and Delivery shall not be valid, unless confirmed by us in writing. Any discordant terms are herewith expressively contradicted.

II. Offers and Orders

- 1. Our offers are submitted without engagement. Cost estimates, if any, are to be understood without any obligation. All declarations of acceptance and purchase orders must be confirmed in writing by fax (order acknowledgement) to have legal effect. The same shall be applicable to any supplements, modifications or collateral covenants.

III. Prices

- 1. Our prices are based on the costs valid at the time our written order acknowledgement according to chapter II is issued. The prices are to be understood for delivery ex works, without packing and insurance, unless otherwise agreed upon, and are subject to the addition of Goods and Services Tax (GST).
- 2. To the extent that we are obliged to take back the packing material used for transport, the purchaser shall bear the cost for the return of the packing material used and all appropriate cost for its recycling or, should this be feasible or be deemed advisable by us, the appropriate cost accruing additionally for its repeated use.
- 3. In the event of a change in cost, we reserve the right to proceed with a modification in prices.

IV. Delivery

- 1. Delivery periods agreed upon shall be considered as having started at the time our written order acknowledgement according to chapter II has been sent, but not before the fulfilment of any existing obligations to cooperate on the part of the purchaser. The delivery period shall be considered as having been observed if by the date of its expiration the goods delivered have left the works or if an advice informing of their readiness for shipment had been issued.
- 2. Cases of force majeure and other events beyond our influence, in particular defaults in delivery on the part of our suppliers, traffic breakdowns, interruptions of production, industrial disputes, shortages of material and energy, action of government authorities as well as import or export restrictions, which could jeopardise the unimpeded performance of the order, entitle us to postpone the delivery date accordingly or to withdraw from the contract partly or totally if, as a consequence of said events, the performance of the contract should be seriously endangered or made impossible, without the purchaser being able to raise any damage claims arising there from. This shall also be applicable if said events should occur at a moment when we are in default.
- 3. In the event of the shipment being entirely or partly delayed at the request or on the initiative of the purchaser, the latter shall be charged, beginning one week after the purchaser or carrier has been advised that the goods were ready for shipment, all costs caused by the delay, in particular the storage costs, but not less than 0.5% per month of the invoiced value of the goods transported, unless the purchaser or carrier entrusted by the latter should refuse the goods to be transported in a way that can be expected from him other than the manner that had been agreed upon. We shall be entitled, however to dispose of the goods to be delivered in another way and to supply the purchaser within an appropriately extended period if an adequate grace period granted for taking delivery has expired without result.
- 4. Partial deliveries with corresponding accounts being drawn up shall be permissible.
- 5. At the request of the purchaser, we shall be prepared to insure the goods transported at the latter's own expense, against all risks from damage to the goods caused by theft, breakage, transport, fire or water as well as against all other insurable risks.

V. Passing of risk

- 1. The risk shall pass to the purchaser at the latest as soon as the purchaser has been advised that the goods are ready for shipment

or have been surrendered to the carrier or have left out stock for shipment. This shall also be applicable for partial deliveries or when we have assumed the performance of other services also, such as shipment, delivery to domicile or erection. In the event of the shipment being delayed or rendered impossible through the fault of the purchaser, the risk shall pass to the purchaser at the moment the purchaser or carrier acting on the latter's behalf is notified that the goods are ready for shipment.

VI. Terms of payment

- 1. As regards the due date of payment of the purchase price, the conditions in our order acknowledgement according to chapter II shall be binding. Should the latter not contain any such data, the purchase price shall be due 30 days after the date in which the invoice is issued. In the event of the purchaser failing to observe the stipulated date of payment or his being in default although having been duly served a reminder, we shall be entitled to claim interest on arrears at a rate of 4% above the bank rate of the Reserve Bank of Australia rate valid at the respective moment, unless the purchaser should evidence that the loss has been smaller.
- 2. Even if otherwise provided by the purchaser, we shall be authorised to set off payment against any pending liabilities of the purchaser which were due at former date and shall inform the latter of the manner in which the set-off has been made. Should any expense or interest have accrued formerly, we shall be authorised to set off payment first against the expenses, then against the interest and finally against the primary liability.
- 3. The purchaser shall not be entitled to any set off or retention or payment, unless any counter claims on his part have been established in a final court decision or are uncontroversial. In case the purchaser should, contrary to the aforementioned provision, have made a set-off payment against our receivables and default in payment, we shall be authorised in particular to claim interest on arrears according to the provision in chapter VI 1.

VII. Retention of title

- 1. We reserve title to the goods delivered pending settlement by the purchaser of all and any claims resulting from the business relationship and pending payment of all cheques, bills or notes. This shall also be applicable to all and any current account balance claims.
- 2. In the event of the purchaser becoming proprietor of a new object through processing or incorporation of the goods delivered by us into that object, the purchaser shall with a view to securing our claims grant us already now the co-property of the new object in the proportion of the invoice value of our goods to the other goods incorporated in the new object and he shall keep the objects subject to our co-property for us in custody free of charge.
- 3. We shall be authorised to insure the goods delivered, at the expense of the purchaser, against all risks from damage caused by theft, breakage, fire, water or other damage, unless the purchaser has evidence to have effected an insurance himself.
- 4. The purchaser shall be authorised to resell the goods delivered in the ordinary course of business, subject to our revocation. This right shall extinguish if the purchaser should suspend payments or if he should otherwise contravene his contractual obligations. The purchaser shall assign to us already now all accounts receivable with ancillary rights due to him, deriving from the resale. The accounts receivable assigned to us are destined to secure all claims resulting from the retention of title. The purchaser shall be entitled to collect the receivables assigned to us as long as the respective authorisation has not been withdrawn by us. Such authorisation shall extinguish without having expressively been withdrawn if the purchaser should suspend payments. On our request, the purchaser shall inform us expressly and immediately to whom the goods have been sold and what receivables are due to him resulting from the resale.
- 5. In case the value of goods for which we hold title as per the foregoing provisions should exceed the claims to be secured by more than 20%, we undertake, at the purchaser's request, to release securities accordingly.
- 6. We reserve all property right and copyrights for any parts of

TERMS & CONDITIONS OF SALE & DELIVERY

- documentation, in particular drawings, figures, weight and measurement particulars and other performance data; such documentation must not be made available to any third party without our prior written consent.
- 7. The purchaser shall not be entitled to pledge the goods delivered or the receivable, which are sue to him in exchange or to assign said goods for security. The purchaser undertakes to notify us immediately of any distrains of the goods delivered or of any other impairments of his rights.
- 8. In the event of the purchaser contravening his contractual obligations, in particular by defaulting in payment or in case of a substantial deterioration of his financial conditions, we shall, after having duly served him a reminder, be entitled to reclaim and the purchaser shall be obliged to surrender the goods delivered. The withdrawal or dstraint of goods subject to retention of title by us shall not be considered a withdrawal from the contract.

VIII. Warranty

- 1. We warrant the goods delivered to be free from faults or defects according to the respective state of technology as well as to feature properties that had expressly been promised, by way of repair or replacement of the product claimed to be faulty, whichever we prefer. The costs arising from repair or replacement shall be borne by us, the transport charges at our expense being limited to those incurred for the cheapest shipping and reshipping mode. In the event of the repair or replacement failing to be effective within a reasonable period of time, the purchase shall be entitled to reduce the purchase price or to withdraw from the contract.
- 2. Warranty claims, if any, shall be excluded if the purchaser does not notify us in writing of the discernible faults or defect immediately after receipt of the goods delivered, while presenting the defective goods to us. Any faults or defects that cannot be discovered within this period even when subjecting them to a careful exam, shall be communicated to us in writing immediately after they have been discovered.
- 3. If the right of the purchaser to assert a warranty claim should related to a defect inherent to a purchased product, our liability shall be limited to the assignment of the rights that we may claim against our supplier. The purchaser shall be entitled to assert any warranty claims against us only if he has previously asserted such claims unsuccessfully by taking legal action against our supplier.
- 4. The warranty period shall be one year from the date of delivery. In the case of components installed in motor vehicles, construction machines or building material machinery, the warranty period shall be one year from the date of commissioning. It shall expire prematurely, but not before a period of six months has elapsed from the date of delivery, once 1200 service hours have been reached or, in the case of brake or compressor units, once a total mileage of 50,000km has been covered. The warranty period shall expire 18 months after the date of delivery at the latest.
- 5. Our liability for any repair work performed on the goods delivered or the delivery of replacement goods shall be governed by the foregoing provisions. The warranty period for the above shall be limited, however, to three months; it shall terminate at the earliest at the date of expiration of the original warranty period.
- 6. We shall not assume any liability for consequences resulting from any modifications or repair work performed on the goods by the purchaser or third parties without our prior consent.

- 7. Any further claims shall be excluded. We shall not assume any liability for claims of the purchaser with respect to damage occurred to other than the goods delivered themselves. The exclusion of liability shall likewise not be applicable in the case of absence of qualities that had expressly been warranted if such warranty had the explicit purpose of protecting the purchaser against any damage that has not occurred to the goods delivered themselves. The exclusion of liability shall likewise not be applicable in case of damage caused wilfully or by gross negligence on the part of our statutory representatives or executive personnel.

IX. Damage Claims

Claims for damages as a result of any violation of contractual or extra-contractual obligations can only be asserted if such violation has been done wilfully or in case of gross negligence on the part of our statutory representatives or executive personnel. In the event of damage having been caused by non-executive personnel, we shall be held liable only if the attainment of the objective pursued with the conclusion of the endangered by such wilful action or gross negligence.

X. Liability for collateral obligations

In case that the object delivered should, through our fault, not be comparable or being utilised in accordance with the terms of the contract, pursuant to the missing or insufficient compliance with proposals submitted or advise furnished prior or subsequent to the conclusion of the contract or other collateral contractual obligations, in particular instructions for us and maintenance of the object delivered, the provisions of the chapter VII 7 and IX shall be applicable analogously, to the exclusion of any further claims of the purchaser.

XI. Partial invalidity

Should any of the provisions of the present Terms and conditions of Sale and Delivery be void, the validity of the remaining provisions shall not be affected thereby. In case one or several provisions of the present Terms and conditions of sale and delivery should be void, the parties hereto shall replace the void by a valid provision coming as close as possible economically to the void provision.

XII. Applicable law, place or performance and venue

- 1. The present Terms and conditions of sale and delivery as well as the entire legal relationship between the purchaser and ourselves shall be governed by the law of New South Wales. The application of the United Nations Convention on Contracts for the International Sale of Goods shall be excluded.
- 2. The price of performance and venue shall be in the state of New South Wales or the respective place of business of our branch offices if action was taken by the latter. This stipulation of venue shall however, be applicable only if the purchase is a merchant possessing full commercial capacity, a legal person or a special fund under public law. We shall also be entitled to institute legal proceedings before the court that is competent for the place of business or the branch office of the purchaser or the jurisdiction of which results from other statutory regulations.

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