

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.

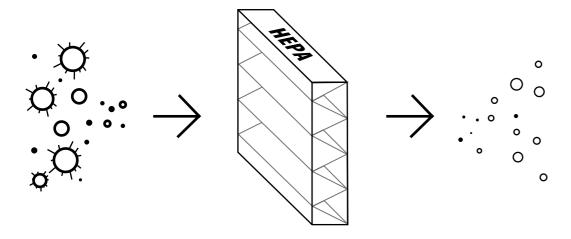
Ensuring cabin air is safe to breathe and free from airborne contaminates including pesticide, asbestos, silica dust, fine coal dust and diesel particulate matter. To ensure risk for the coal mine operators is at an acceptable level.

HEPA solutions for underground and surface mining applications





HEPA FILTER



Here at Sigma Air Conditioning we understand the importance of quality in your business and how your biggest assets, your operators, work tirelessly day in and day out in the heat and cold. Create a safe and healthy breathing space with Sigma's range of High Efficiency Particulate Air (HEPA) filters. Our H13 compliance HEPA filters removes 99.95% of all particles greater than 0.3 microns.

WHAT DOES A HEPA FILTER DO?

HEPA filters are a special type of filter that capture microscopic particles like fine silica dust, particulate matter, smoke, bacteria and some virus. HEPA filters also capture toxic substances like asbestos, heavy metals and carcinogenic dust.



WITHOUT HEPA

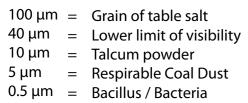
Long-term exposure to unwanted air particulates is one of the leading causes for life threatening illnesses. Recommended for operators in mine sites but also suitable for all work places that requires a clean and healthy environment.

WHY HEPA FILTER?

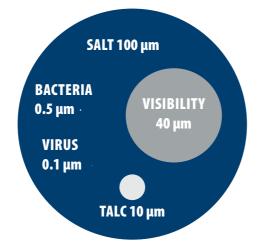
Apart from the preventive and air quality benefits, operators can breathe easy knowing that the air inside the cabins is clean and safe. Employers can enjoy the peace of mind, knowing that the HEPA filters upgrade provides their operators with a safe and healthy working environment.

HOW BIG IS A MICRON?

As a unit of measure, 1 micron also called micro meter is equal to 1 millionth of a meter or .000039 inch.

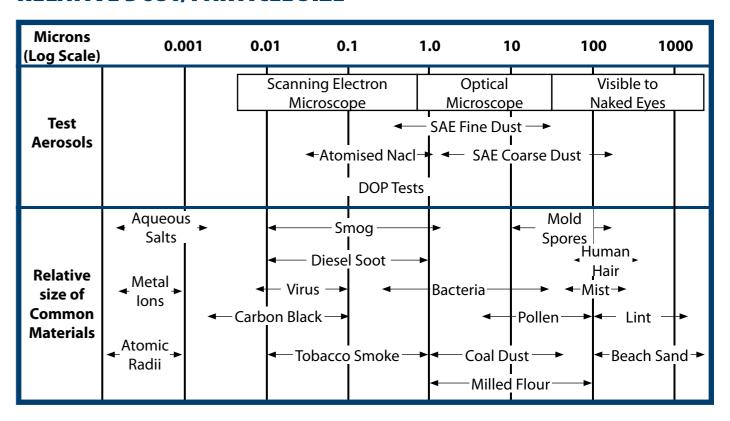


 $0.1 \, \mu m = Virus$

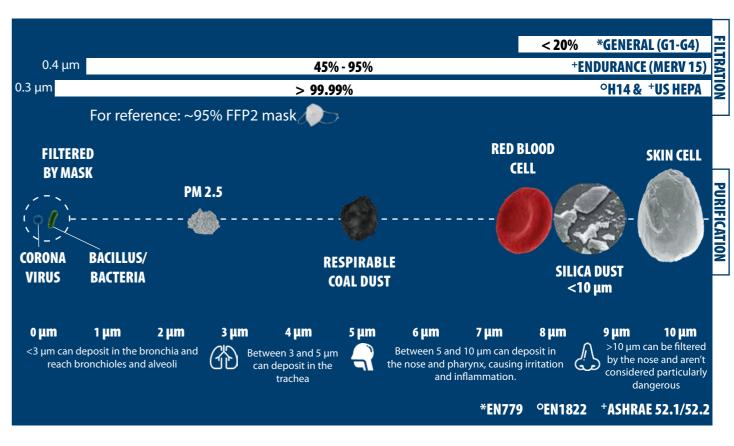


KNORR-BREMSE

RELATIVE DUST/PARTICLE SIZE



FILTER EFFICIENCY



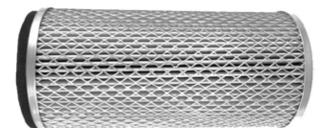
H0116836





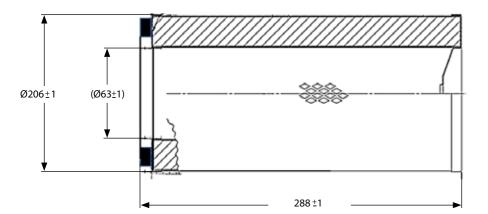


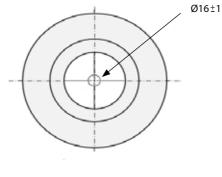




H13 COMPLIANCE 99.95% FILTRATION EFFICIENCY MEETING EUROPEAN STANDARD EN1822

Fresh Air filter, 206OD x 288mm, H13 intermediate stiffness HEPA filter media composed of borosilicate microfibers with acrylic resin binder. Supply with Top Cap 16ID and Bottom Cap 63ID. 99.95% for particles diameter 0.3 µm





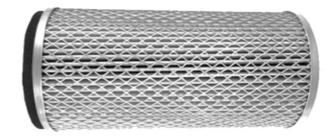
COMPATIBLE WITH



H0111416/H0111417

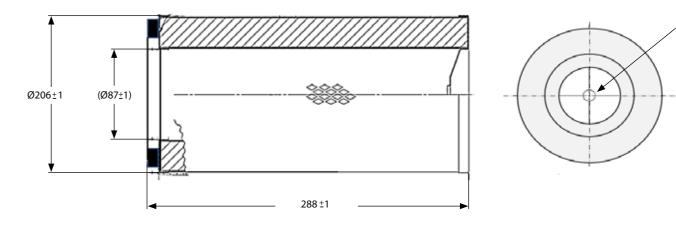
NOTE: Some additional parts may be required for installation. Please consult with the Sigma Technical Sales team to confirm HVAC selection and suitability





H13 COMPLIANCE 99.95% FILTRATION EFFICIENCY

Fresh Air filter, 206OD x 288mm, H13 intermediate stiffness HEPA filter media composed of borosilicate microfibers with acrylic resin binder. Supply with Top Cap 16ID and Bottom Cap 63ID. 99.95% for particles diameter 0.3 μm



COMPATIBLE WITH



H0111418

NOTE: Some additional parts may be required for installation. Please consult with the Sigma Technical Sales team to confirm HVAC selection and suitability



Ø16±1

H14/US HEPA FILTER

AU460863



H14 & US HEPA COMPLIANCE 99.99% FILTRATION EFFICIENCY

HEPA filter, 305x305x149mm (nominal), with galvanised steel case, 99.99% filtration efficiency for particles diameter $0.3~\mu m$

MATERIAL

PARTICULARS	DESCRIPTION
MEDIA	TYPE 55 GLASS PAPER
CASE	GALVANISED STEEL
SPACERS	ALUMINUM
GASKET	NEOPRENE
FEATURES	FIRE RESISTANT AND SELF EXTINGUISHING

PERFORMANCE

PARAMETERS	DESCRIPTION
Maximum	70°C / 158°F - CONTINUOUS
temperature	120°C / 248°F - SHORT PERIODS ONLY

COMPATIBLE WITH







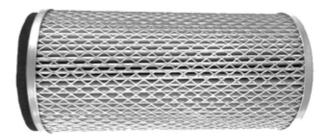
PVV50M2

NOTE: Some additional parts may be required for installation. Please consult with the Sigma Technical Sales team to confirm HVAC selection and suitability



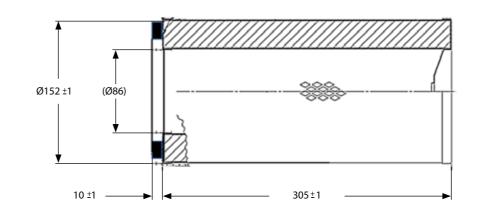
H13 HEPA FILTER

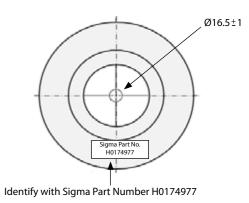
H0174977



H13 COMPLIANCE 99.95% FILTRATION EFFICIENCY MEETING EUROPEAN STANDARD EN1822

Fresh Air filter, 305L x 152OD, H13 intermediate stiffness HEPA filter media composed of borosilicate microfibers with acrylic resin binder. Supply with 17 ID rubber bonded metal washer. 99.95% for particles diameter $0.3~\mu m$





COMPATIBLE WITH







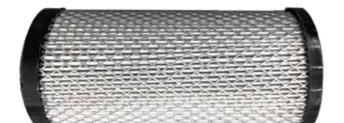
FVV100

NOTE: Some additional parts may be required for installation. Please consult with the Sigma Technical Sales team to confirm HVAC selection and suitability



H13 HEPA FILTER

H0202671

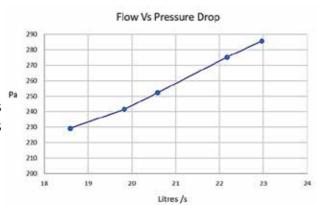


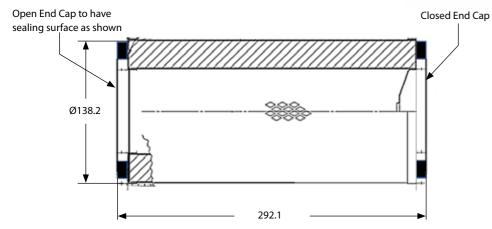


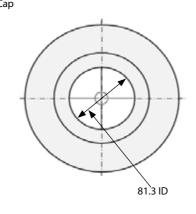
HEPA PRODUCT RANGE

H13 COMPLIANCE 99.95% FILTRATION EFFICIENCY MEETING EUROPEAN STANDARD EN1822

Fresh Air filter, 292L x 138OD, H13 intermediate stiffness HEPA filter media composed of borosilicate microfibers with acrylic resin binder. 99.95% for particles diameter 0.3 μ m







COMPATIBLE WITH





NOTE: Some additional parts may be required for installation. Please consult with the Sigma Technical Sales team to confirm HVAC selection and suitability



PRODUCTS KIT SET



HEPA UPGRADE KIT FOR EB9P4X

KIT H0225677

Upgrade the standard EB9P4X Endurance filter to HEPA grade with SIGMA HEPA UPGRADE KIT (KIT H0225677). H13 intermediate stiffness HEPA filter media composed of borosilicate microfibers with acrylic resin binder.

KIT PARTS

III PAN	113		
ART NO.	DESCRIPTION	QTY	
H0202671	H13 HEPA FILTER	1	99.95% PARTICULATE
AU682070	AIR FLOW AND MONITORING SWITCH	1	EFFICIENCY AT 0.3 MICRON
AU622401	CABLE RADOX FOR WIRING	1	
KIT500001	KIT FOR AIRFLOW SWITCH DUCT	1	
		4	345.6 obs./
3 Sheat	Conductor		Ø4mm plastic connectors
		Ø4mm PVC t	tube 4x Self-tapping

NOTE: Some additional parts may be required for installation. Please consult with the Sigma Technical Sales team to confirm HVAC selection and suitability



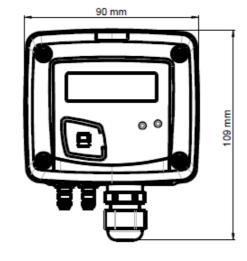
PRESSURE MONITORING UNIT

KEY POINTS

- Range from -100/+100 Pa to -2000/+2000 mbar (according to model)
- RCR relay output 3A/230 Vac, power supply 24 Vac/Vdc
- Visual and audible alarm, red led in front
- ABS V0 IP65 housing
- "¼ turn" system mounting with wall-mount plate
- Housing with simplified mounting system
- Solenoid valve for auto-calibration (only on PST11 model)



FEATURES OF HOUSING





PARAMETERS	DESCRIPTION
Material	ABS VO as per UL94
Protection	IP65
Display	LCD 10 digits Size : 50 x 17 mm
Height of digits	Values : 10 mm Units : 5 mm
Connections	ribbed, Ø 6.2 mm
Cable gland	Ribbed Ø 6.2 mm (PST11 - PST12 - PST13) Security Ø 6.2 mm (PST14 - PST15)
Weight	143 g

TECHNICAL FEATURES

I ECHNICAL FEATURES		
PARAMETERS	DESCRIPTION	
Unit of measurement	Pa, mmH2O, inWG, mmHG, daPa, kPa, hPa, mbar (PST-11, PST-12, PST-13) mbar, inWG, mmHG, PSI, mmH2O, daPa, hPa, kPa (PST-14, PST-15)	
Accuracy*	PST11: \pm 1% of reading \pm 2 Pa PST12: \pm 1.5% of reading \pm 3 Pa PST113: \pm 1.5% of reading \pm 3 mmH2O PST14 and PST15: \pm 1.5% of reading \pm 3 mbar	
Response time	1/e (63%) 0.3 s	
Resolution	1 Pa ; 0.1 mmH2O ; 0.01 mbar ; 0.01 inWG ; 0.01 mmHG ; 0.1 daPa ; 0.001 kPa	
Autozero	20.0 Kg	
Type of fluid	Air and neutral gases	
Overpressure tolerated	PST11, PST12 :21 000 Pa; PST13 :69 000 Pa; PST14 :1400 mbar; PST15 :4100 mbar	
Operating temperature	From 0°C to +50°C	
Storage	From -10 °C to +70 °C	

TECHNICAL SPECIFICATIONS

PARAMETERS	DESCRIPTION
Output	1 RCR relay 3 A / 230 Vac
Power supply	24 Vac/Vdc ±10 %
Consumption	2 VA
Relay and alarm status	Red led in front and internal buzzer
Electromagnetical compatibility	EN61326
Electrical connection	Terminal block for cables Ø0.05 to 2.5 mm2
PC communication	USB-mini Din cable
Environment	Air and neutral gases
Storage temperature	From -10 °C to +70 °C

^{*}All the accuracies indicated in this technical datasheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.





EB9P2X/4X

FRESH AIR PRESSURISER

EB9P2X

Fresh Air Pressuriser 31 l/s 12V

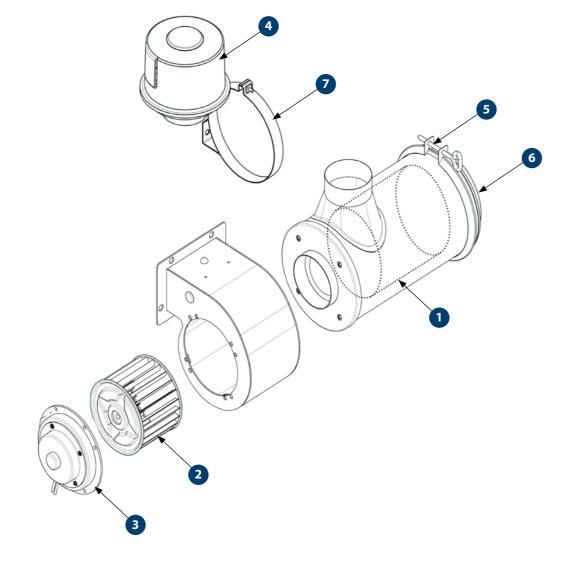
EB9P4X

Fresh Air Pressuriser 31 l/s 24V

EB9P4XL

Fresh Air Pressuriser 35 l/s 24V





SPARE PARTS

PAR	T NO.	DESCRIPTION	QTY
1	AU460083 AU460082	FILTER CARTRIDGE ENDURANCE (EB9P4X) FILTER CARTRIDGE ENDURANCE (EB9P4XL)	1
	* Note: Sites w to suit both ur	hich have both EB9P4 and EB9P4X can use KNHV8000 nit)5
	AU410337	BLOWER 120D x 89W x 5/8 COUNTER CLOCKWISE SINGLE INLET	1
2	UE327 H0175266	MOTOR 80W 12V FOR EB9P2X MOTOR 70W 24V ASSEMBLY FOR EB9P4X & EB9P4XL	1 1
	AU460963	PRE CLEANERTS 3"INLET SMALL	1
4	H0056158	CLAMP ASSEMBLY 168MM INTERNAL DIAMETER	1
5	H0056157	COVER ASSEMBLY	1
6	AU870001	MOUNTING BAND AIR CLEANER 6.5" DIAMETER	1
Ø	S3750100	SEAL GASKET MOTOR	1
	S3750101	SEAL CASKET CANISTER	1

HEPA FILTRATION OPTION

PARTICULARS	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	

SPECIFICATIONS

	METRIC	IMPERIAL
Fan Speeds	1	1
Fresh Air	31 l/s	65 CFM
Fresh Air (EB9P4XL)	35 l/s	74 CFM
Power Supply	12V / 24V	12V / 24V
Power Supply (EB9P4XL)	24V	24V
Current Draw	6 A / 3 A	6 A / 3 A
Weight (nominal)	8.0 Kg	17.6 lbs
Technical Manual Reference	SM407-5065	SM407-5065
Dimension L X W X H	462mm X 364mm X 192mm	18.2in X 14.3in X 7.6in

MAINTENANCE

AU460083	FILTER CARTRIDGE ENDURANCE (EB9P4X)	
AU460082	FILTER CARTRIDGE ENDURANCE (EB9P4XL)	
KNHV80005*	FILTER KIT	
6 MONTHS / 1800 HOURS		
H0202671	H13 HEPA FILTER OPTION FOR EB9P2X & EB9P4X (FOR UPGRADED UNIT)	
ANNUAL / 3600 HOURS		
UE327	MOTOR 80W 12V FOR EB9P2X	
H0175266	MOTOR 70W 24V ASSEMBLY FOR EB9P4X & EB9P4XL	
3 YEARS / 10,800 HOURS		
AU410337	BLOWER 120D X 89W X 5/8 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.

COMPANION ITEMS

PART NO.	DESCRIPTION
H0202671	H13 HEPA FILTER OPTION FOR EB9P2X & EB9P4X
H0225677	HEPA UPGRADE KIT WITH PRESSURE MONITOR
AU682070	AIR FLOW AND MONITORING SWITCH







EB9P

FRESH AIR PRESSURISER WITH HEPA

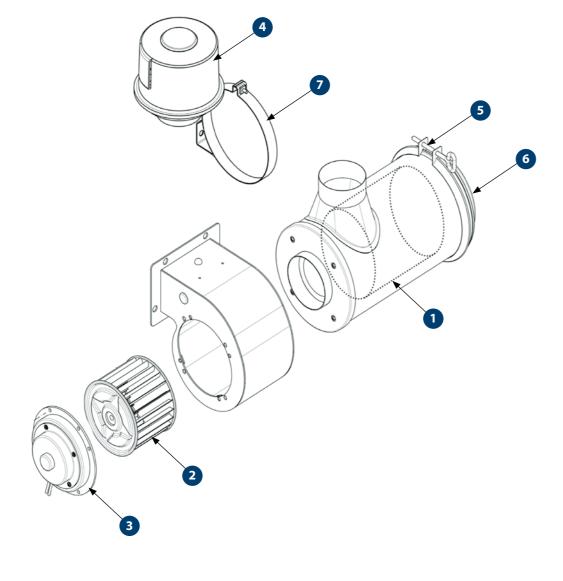
H0316118

Fresh Air Pressuriser with HEPA 20 l/s 24V

H0316119

Fresh Air Pressuriser with HEPA 20 l/s 12V





SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 H0202671	H13 HEPA FILTER	1 1
2 AU410337	BLOWER 120D x 89W x 5/8 COUNTER CLOCKWISE SINGLE INLET	1
3 UE327 H0175266	MOTOR 80W 12V FOR EB9P2X 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" DIAMETER	1
\$3750100	SEAL GASKET MOTOR	1
S3750101	SEAL CASKET CANISTER	1

HEPA FILTRATION

* on qualified cabins

PARTICULARS	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

SPECIFICATIONS

	METRIC	IMPERIAL
Fan Speeds	1	1
Fresh Air	22 l/s	46 CFM
Power Supply	12V / 24V	12V / 24V
Current Draw	3 A / 1.5 A	3 A / 1.5 A
Weight (nominal)	8.0 Kg	17.6 lbs
Dimension L X W X H	462mm X 364mm X 192mm	18.2in X 14.3in X 7.6in

MAINTENANCE

6 MONTHS / 1800 HOURS	
H0202671	H13 HEPA FILTER OPTION FOR EB9P2X & EB9P4X (FOR UPGRADED UNIT)
ANNUAL / 3600 HOURS	
UE327 MOTOR 80W 12V FOR EB9P2X	
H0175266	MOTOR 70W 24V ASSEMBLY FOR EB9P4X & EB9P4XL
3 YEARS / 10,800 HOURS	
AU410337	BLOWER 120D X 89W X 5/8 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.

PRE CLEANER TS 3" INLET SMALL

COMPANION ITEMS

AU460963

PART NO.	DESCRIPTION	
AU682070	AIR FLOW AND MONITORING SWITCH	







FRESH AIR PRESSURISER UNIT

H0111416

Compact HEPA Filtration Pressuriser System 12 VDC

H0111417

Compact HEPA Filtration Pressuriser System 24 VDC

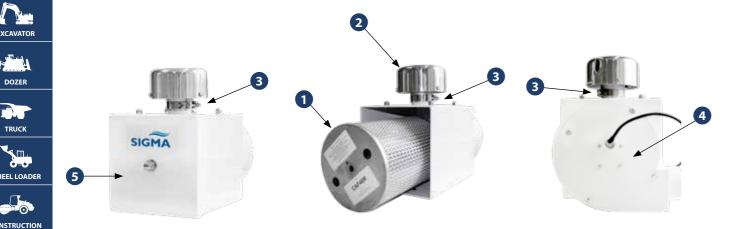
AVAILABLE IN 12V OR 24V

Meets the EN 15695 in qualifying cab

99.9% PARTICULATE EFFICIENCY AT 0.3 MICRON 0.5% CABIN LEAKAGE

AIM

To provide highest quality filtered fresh air into the cabin to reduce exposure to harmful particulates and gasses. Also to provide positive pressure inside the cabin, positive pressure inside the cabin will allow the filtered air to leak out through minor gaps in the door seal, this reduces the risk of ingress of dust into the cabin through those seals.



SYSTEM OPERATION

The airflow through the FPS Series Filter is as follows:

Contaminated air is drawn into the system through the centrifugal pre-cleaner. The circular motion of the pre-cleaner separates out larger particulates dramatically increasing filter life.















SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 H0116836	FILTER 16 / 79ID X 206OD X 288H EN15695 (HEPA)	1
2 AU460748	CENTRIFUGAL PRE -CLEANER	1
3 H0133899	2-1/2 INCH ADAPTOR	1
4 H0133903 H0133904	24V MOTOR W/ MOTOR MOUNTING PLATE 12V MOTOR W/ MOTOR MOUNTING PLATE	1
5 H0133901	FILTER ACCESS PANEL, SERIES 955	1

HEPA FILTRATION

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

The high capacity and high efficiency HEPA filter and pressuriser is designed using heavy-duty 304 stainless steel construction that is suitable for mobile applications in corrosive atmospheres. The activated filter media can be customised to suit the removal of specific contaminants and odours from the workplace, resulting in clean fresh air to the operator.



SPECIFICATIONS

	METRIC	IMPERIAL
Fan Speeds	1	1
Air Flow	22 l/s	50 CFM
Power Supply	12v/24v	12v/24v
Current Draw	3.2 /1.6A	3.2 /1.6A
Weight (nominal)	20.0 Kg	44.0 lbs
Dimension L X W X H	450x250x370 mm	17.72x9.82x 14.57 inch

MAINTENANCE

6 MONTHS / 18	6 MONTHS / 1800 HOURS	
H0116835	FILTER 16 / 79ID X 206OD X 288H	
H0116836	FILTER 16 / 79ID X 206OD X 288H EN15695 (FOR UPGRADED UNIT)	
ANNUAL / 3,600 HOURS		
AU460748	CENTRIFUGAL PRE-CLEANER	
3 YEARS / 10,800 HOURS		
H0133903	24V MOTOR W/ MOTOR MOUNTING PLATE	
H0133904	12V MOTOR W/ MOTOR MOUNTING PLATE	

COMPANION ITEMS

PART NO.	DESCRIPTION
H0116835	FILTER 16 / 79ID X 206OD X 288H
H0133905	3 INCH INLET ADAPTOR
AU460747	PRE-CLEANER 3 INCH

PRESSURISATION

Air exiting the FPS unit creates positive pressure in a properly sealed cabin. This over-pressure pushes clean air out leaks in the positive side pressure side of the system, rather than allowing contaminated air to enter. A differential pressure gauge is available to measure the difference in pressure between the inside and outside of the cabin.

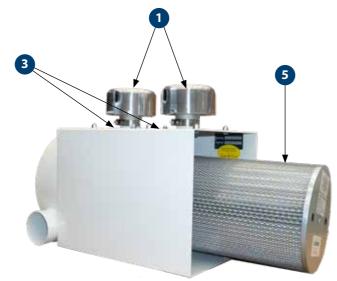




FPS955-220VAC

H0111418

Compact HEPA Filtration Pressuriser System FPS955 220VAC







COMPACT FILTRATION PRESSURISER



SPARE PARTS

PART NO.	DESCRIPTION	QTY
1 AU460748	CENTRIFUGAL PRE-CLEANER 2-1/2 INCH ID	2
2 H0133898	220 V MOTOR AND MOUNTING PLATE	1
3 H0133899	2-1/2 INCH ADAPTOR	2
4 H0133901	FILTER ACCESS PANEL SERIES FPS955	1
5 H0116837	FILTER 16/87ID X 273OB X 417H (H13 GRADE)	1
	FI ANGE KIT WITH 3 INCH SPIGOT	1

HEPA FILTRATION

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

^{*} on qualified cabins

SPECIFICATIONS

	METRIC	IMPERIAL
Fan Speeds	1	1
Fresh Air	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	400mm X 680mm X 400 mm	19.3in X 26.8in X 15.7in

MAINTENANCE

6 MONTHLY / 1800 HOURS		
H0116837	FILTER 16 / 87ID X 273OD X 417H (H13 GRADE)	
ANNUAL / 3,600 HOURS		
AU460747	FILTER PRE-CLEANER 8.5" FULL VIEW	
AU460748	CENTRIFUGAL PRE-CLEANER	
3 YEARS / 10,800 HOURS		
H0133898	220 V MOTOR AND MOUNTING PLATE	
Please contact	SIGMA for more information including details	

Maintenance periods and scope are dependent on application

COMPANION ITEMS

and site conditions, and are to be used as a guide.

on an overhaul scope and interval.

PART NO.	DESCRIPTION
AU460747	CENTRIFUGAL PRE-CLEANER 3 INCH ID
H0133905	3 INCH INLET ADAPTOR

DOZER

TRUCK

WHEEL LOADER

CONSTRUCTION

UNDERGROUND
EQUIPMENT

INDUSTRIAL

SMELTERS

RAIL SPECIAL
VEHICLES





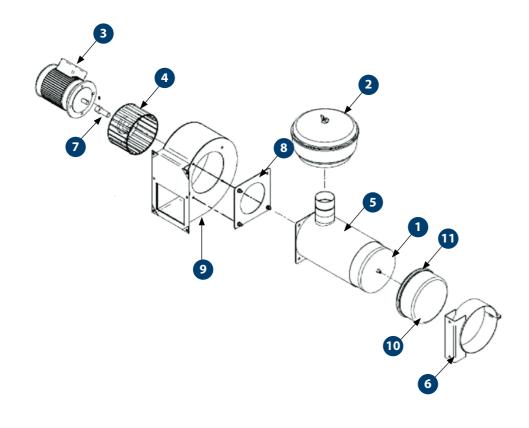
FVV80

FRESH AIR PRESSURISER UNIT

FVV80MR1

Fresh Air Pressuriser 80 l/s 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 AU410525	BLOWER 178D X 76W X 19MM	1
5 AS162609	FILTER CANNISTER ASSEMBLY	1
6 AS162611	FILTER SUPPORT CLAMP ASSEMBLY	1
7 AU872011	SHAFT EXTENSION 14MM F X 19MM M	1
8 R1626026	GASKET FVV100 INLET 200MM X 200MM 140MM DIAMETER	1
9 AS162614	FAN HOUSING ASSEMBLY	1
10 AU460768	END CAP	1
11 AU460765	CLAMP ASSEMBLY	1

HEPA FILTRATION OPTION

PARTICULARS	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

SPECIFICATIONS

	METRIC	IMPERIAL
Fan Speeds	1	1
Air Flow	80 l/s	170 CFM
Power Supply	415 VAC	415 VAC
Current Draw	1.3 A	1.3 A
Maximum Ambient Temperature Range	46°C	115°F
Weight (nominal)	22.0 Kg	48.4 lbs
Dimension L X W X H	724mm X 333mm X 495mm	28.5in X 13.1in X 19.5in

MAINTENANCE

MONTHLY / 200	HOURS	
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.		

COMPANION ITEMS

PART NO.	DESCRIPTION
AU460965	PRE-CLEANER TS 3" INLET LARGE
AU460081	FILTER CARTRIDGE ENDURANCE
H0174977	HEPA FILTER CARTRIDGE







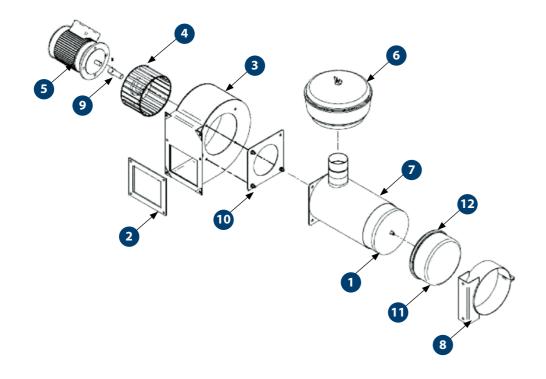
FVV100

FRESH AIR PRESSURISER UNIT

FVV100MR1

Fresh Air Pressuriser 100 l/s 415 VAC





SPARE PARTS

PART NO.	DESCRIPTION	QTY
AU460734 1 AU460081 H0174977	FILTER ELEMENT SUIT FVV80 & FVV100 FILTER CARTRIDGE ENDURANCE H13 HEPA FILTER	1 1 1
2 R1626027	GASKET OUTLET 206MM X 178MM	1
3 AS162608	FAN HOUSING	1
4 AU410520	BLOWER 178D X 102W X 19MM	1
UE800 AU304150	MOTOR 0.37kW BEEW FL 2900RPM 240V (FVV100K1) MOTOR 0.55KW 415V 71 FL 2P (FVV100MR1)	1 1
6 AU460729	FILTER PRE-CLEANER 270MM - STANDARD	1
7 AS162609	FILTER CANNISTER ASSEMBLY	1
8 AS162611	FILTER SUPPORT CLAMP ASSEMBLY	1
9 AU872011	SHAFT EXTENSION 14MM F X 19MM MALE	
10 R1626026	GASKET FVV100 INLET 200MM X 200MM 140MM DIAMETER	1
11 AU460768	END CAP	1
12 AU460765	CLAMP ASSEMBLY	1

HEPA FILTRATION OPTION

PARTICULARS	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	

SPECIFICATIONS

	METRIC	IMPERIAL
Fan Speeds	1	1
Air Flow	100 l/s	212 CFM
Power Supply	415 VAC	415 VAC
Current Draw	1.3 A	1.3 A
Weight (nominal)	22.0 Kg	48.4 lbs
Dimension (L X W X H)	755mm X 333mm X 495mm	29.7in X 13.in X 19.5in

MAINTENANCE

MONTHLY / 300 HOURS			
AU460734	FILTER ELEMENT SUIT FVV80 & FVV100		
AU460081	FILTER CARTRIDGE ENDURANCE		
6 MONTHS / 1800 HOURS			
H0174977	H13 HEPA FILTER		
3 YEARS / 10,800 HOURS			
AU460729	FILTER PRE-CLEANER 270MM - STANDARD		
AU410520	BLOWER 178D X 102W X 19MM		

Maintenance periods and scope are dependent on application and site conditions, and are to be used as a guide.

on an overhaul scope and interval.

Please contact SIGMA for more information including details

COMPANION ITEMS DESCRIPTION PART NO. AU460965 PRE-CLEANER TS 3" INLET LARGE





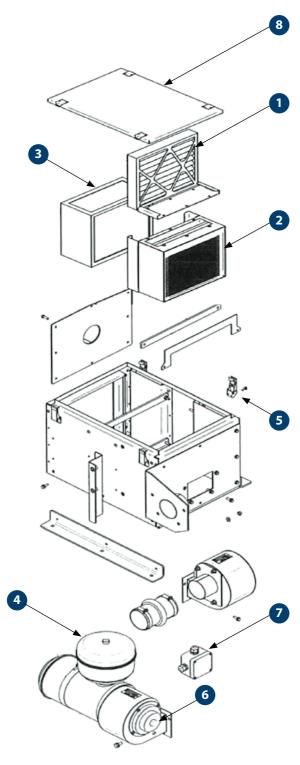


PVV50B2

PRESSURISER

PVV50B2

Fresh Air Multi Stage Filtration (H14 HEPA) and Pressuriser 30 l/s 24V



















SPARE PARTS

PART NO.	DESCRIPTION	QII
1 AU460628	FILTER CARTRIDGE PLEAT 305MM X 305MM X 50MM	1
AS3505127 AU480004 AU480010 AU480011	FILTRATION MODULE ASSEMBLY MEDIA ACT ALUMINA MEDIA ACT CARBON MEDIA IMPREG CARBON	1 1 1 1
3 AU460863	FILTER 305MM X 305MM X 149MM METAL CASE (H14 HEPA FILTER)	1
4 AU460963	PRE CLEANER TS 3"INLET SMALL	1
5 UC310	CATCH TOGGLE OVERCENTRE SS	4
6 H0175266	MOTOR 70W 24VDC ASSEMBLY	2
7 AU613047	TERMINAL BOX 80MM X 80MM	1
8 AS5242124	LID ASSEMBLY	1
AU460706	FILTER ASSEMBLY ROUND 133MM - STANDARD	1
AU460080	FILTER CART ENDURANCE FVV50B2	1
AU410337	BLOWER 120D x 89W x 5/8 COUNTER CLOCKWISE SINGLE INLET	2
AU862211	SEAL RUBBER	2
\$3750100	SEAL GASKET MOTOR	1
S3750101	SEAL GASKET CANISTER	1
UC369	CATCH STRIKER STAINLESS STEEL	4
AU635405	TERMINAL BLOCK	1
AU460083	FILTER CARTRIDGE ENDURANCE FOR EB9P4X	1
H0056158	CLAMP ASSEMBLY 168MM INTERNAL DIAMETER	1
H0056157	COVER ASSEMBLY	1
AU870001	MOUNTING BAND AIR CLEANER 6.5" DIAMETER	1

HEPA FILTRATION

PARTICULARS	DESCRIPTION
PART NO.	AU460863
HEPA GRADE	H13 / US HEPA / AS4260 (GRADE 2)
TEST STANDARD	EN 1822 or equivalent
FILTRATION EFFICIENCY	*99.95% for particles diameter 0.3 μm
FILTER DIMENSION	305mm x 305mm x 149mm

 $[\]ensuremath{^*}$ on qualified cabins

SPECIFICATIONS

METRIC	IMPERIAL
1	1
30 l/s	64 CFM
24V	24V
6 A	6 A
60.0 Kg	132.0 lbs
695mm X 364mm X 520mm	27.4in X 14.3in X 20.5in
	1 30 l/s 24V 6 A 60.0 Kg 695mm X 364mm

MAINTENANCE

3 MONTHS / 900 HOURS							
AU4600083	FILTER CARTRIDGE ENDURANCE FOR PVV50B2						
AU460628	FILTER CARTRIDGE PLEAT 305MM X 305MM X 50MM						
AU480004	MEDIA ACT ALUMINA						
AU480010	MEDIA ACT CARBON						
AU480011	MEDIA IMPREG CARBON						
ANNUAL / 3,60	O HOURS						
AU460863	FILTER 305MM X 305MM X 149MM METAL CASE						
H0175266	MOTOR 70W 24VDC ASSEMBLY						
3 YEARS / 10,80	00 HOURS						
AU460963	PRE CLEANER TS 3" INLET SMALL						
AU410337	BLOWER 120D x 89W x 5/8 COUNTER CLOCKWISE 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.

COMPANION ITEMS

PART NO.	DESCRIPTION
KNHV90007	FIELD SERVICE KIT PVV50 24VDC – EXCL MED





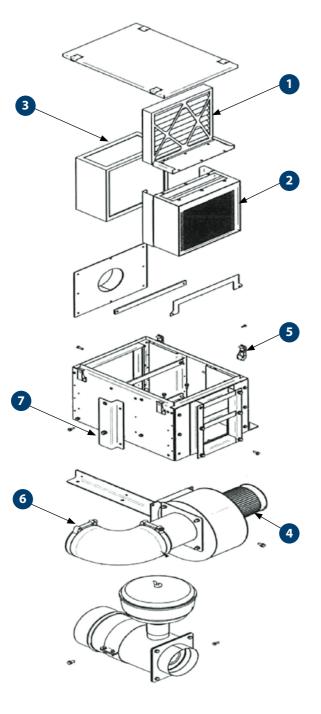


PVV50M2

PRESSURISER

PVV50M2

Fresh Air Multi Stage Filtration (H14 HEPA) and Pressuriser 50 l/s 415 VAC



SPARE PARTS

DESCRIPTION

1 AU460628	FILTER CARTRIDGE PLEAT 305MM X 305MM X 50MM	1
AS3505127 AU480004 AU480010 AU480011	FILTRATION MODULE ASSEMBLY MEDIA ACT ALUMINA MEDIA ACT CARBON MEDIA IMPREG CARBON	1 1 1 1
3 AU460863	FILTER 305MM X 305MM X 149MM METAL CASE (H14 HEPA FILTER)	1
4 AU304150	MOTOR 0.55KW 415V 71 FL 2P	1
5 UC310	CATCH TOGGLE OVERCENTRE SS	4
6 UC265	ELBOW RUBBER 90DEG 6"	1
7 AS3505146	CANISTER MOUNTING BRACKET ASSEMBLY	1
AS162608	FAN HOUSING	1
AS162609	FILTER CANNISTER ASSEMBLY	1
AS162611	FILTER SUPPORT CLAMP ASSEMBLY	1
AU410520	BLOWER 178D X 102W X 19MM CCW SINGLE INLET	1
AU460081	FILTER CARTRIDGE ENDURANCE FVV100	1
AU460727	FILTER CYCLONE 8" METAL	1
AU460729	FILTER PRE-CLEANER 270MM	1
AU460734	FILTER ELEMENT SUIT FVV80 & FVV100	1
AU460765	CLAMP ASSEMBLY	1
AU460768	END CAP	1
AU862121	GASKET OUTLET 206MM X 178MM	1
AU862211	SEAL RUBBER	2
AU872011	SHAFT EXTENSION 14MM F X 19MM M	1
R1626026	GASKET FVV100 INLET 200MM X 200MM 140MM DIAMETER	1
UC266	CLAMP SUIT UC265	2

SPECIFICATIONS

	METRIC	IMPERIAL
Fan Speeds	1	1
Fresh Air	50 l/s	106 CFM
Power Supply	415 VAC	415 VAC
Current Draw	6 A	6 A
Weight (nominal)	60.0 Kg	132.0 lbs
Dimension L X W X H	695mm X 364mm X 520mm	27.4in X 14.3in X 20.5in

MAINTENANCE

3 MONTHS / 90	0 HOURS						
AU460081	FILTER CARTRIDGE ENDURANCE						
AU460628 FILTER CARTRIDGE PLEAT 305MM X 305MM X 50MM							
AU480004	MEDIA ACT ALUMINA						
AU480010	MEDIA ACT CARBON						
AU480011	MEDIA IMPREG CARBON						
ANNUAL / 3,600 HOURS							
AU460863	FILTER 305MM X 305X149MM METAL CASE						
3 YEARS / 10,80	00 HOURS						
AU460729	FILTER PRE-CLEANER 270MM						
AU410520	BLOWER 178D X 102W 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.							

HEPA FILTRATION

PARTICULARS	DESCRIPTION
PART NO.	AU460863
HEPA GRADE	H13 / US HEPA / AS4260 (GRADE 2)
TEST STANDARD	EN 1822 or equivalent
FILTRATION EFFICIENCY	*99.95% for particles diameter 0.3 µm
FILTER DIMENSION	305mm x 305mm x 149mm

^{*} on qualified cabins



DRILL

EXCAVATOR

DOZER

TRUCK

WHEEL LOADER

CONSTRUCTION



SIGMA PVV50 SERIES:

The high capacity and high efficiency HEPA filter and pressuriser is designed using heavy-duty 304 stainless steel construction that is suitable for mobile applications in corrosive atmospheres. The activated filter media can be customised to suit the removal of specific contaminants and odours from the workplace, resulting in clean fresh air to the operator.

PVV50 - 5 stages of filtration. Available in 12VDC, 24VDC or 415VAC.











NOTES

Pre-cleaner

Cartridge Filter

Activated Media

Post Filter

H14 HEPA Filter

H14 Certified 99.99% efficient on particulate 0.3 micron and above.

Customised Contaminant Removal

MULTI-MIX®	NH ₃	со	CO ₂	CI ₂	C₂H₄	нсон	HC	voc		H ₂ S	H ₂ SO ₄	нсі	NO _x	O ₃	SO _x
MM-100		•													
MM-200			•												
MM-1000					•	•									•
MM-3000							•	•						•	
MM-7000	•														
MM-9000				•					•	•	•	•	•		
MM1355					•	•	•	•						•	•
MM-1955				•					•	•	•	•	•		•

Where,

NH ₃	Ammonia	C_2H_4	Ethylene	HF	Hydrogen Fluoride	NO _x	Oxides of Nitrogen
co	Carbon Monoxide	нсон	Formaldehyde	H ₂ S	Hydrogen Sulphide	O ₃	Ozone
CO ₂	Carbon Dioxide	нс	General Hydrocarbon	H ₂ SO ₄	Sulphuric Acid	SO _x	Oxides of Sulphur
CI ₂	Chlorine	voc	General VOC	HCI	Hydrochloric Acid		





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