

HEPA Supply Air Fan Unit

H14 HEPA Fan Filtration System

Applications

- High Care / Food Manufacture / Food Preparation
- IAQ Filtration System incorporating a fan up to 0.8m³/s
- Retrofittable for Fan Coil / Air Conditioning Systems that require HEPA Filtration
- Can be used to attain HEPA Filtered Positive Pressure environment
- Improvement of Indoor Air Quality on systems not designed originally for HEPA Filters
- Control HEPA filtered air supply based on CO2 levels or constant pressure (Not fitted as standard)

Description

The HEPA Supply Air Fan Unit is a complete Fan-Filter air movement system incorporating HEPA Filtration up to grade H14 to EN1822. This Air Handling Unit can be fitted as a standalone supply or recirculation HEPA filtration system, or retrofitted and balanced to work with an existing mechanical ventilation system such as a fan coil system or air conditioning systems which do not have an existing ability to support HEPA filtered air.

The HEPA Supply Air Fan Unit is fitted with a high pressure and speed adjustable EC fan which is wired to an external terminal box to which power connections and speed adjustments can be made manually via a 0-10V signal potentiometer.

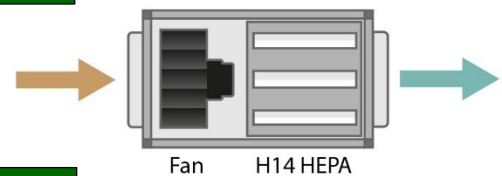
The HEPA Supply Air Fan Unit is manufactured in a standard Air Handling Unit construction with an anodised aluminium pentapost frame, fitted with double skinned mineral wool insulated panels. The unit is finished with a grey plastic-coated leatherette steel. A single removable access door provides access for changing the HEPA and any pre filters, and also allows for fan inspection and easy cleaning.

Optional Extras

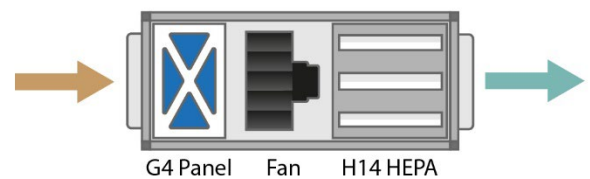
Addition of Prefiltration : Pleated Panel Filters @ Coarse 65% (G4) to ISO16890. (HV+ UNIT)
Automatic Controls : CO2 Sensor and controls or Constant Pressure.



HV Unit



HV+ Unit



HEPA Supply Air Recirculation	HEPA Supply Air from outside	HEPA Supply Air with Fan Coil
Recirculation HV+ unit including G4 Panel + Fan + H14 HEPA	Supply air HV+ unit including G4 Panel + Fan + H14 HEPA	HV unit including Fan + H14 HEPA, Fan coil system to include prefilter

Technical

- Airflow operating Range: up to 0.8m³/s
- Single Phase 240 Volt 50 Hz operation
- Grade H14 to EN1882
- Prefilters when fitted are G4 Pleated Panel Coarse 75% to ISO16890 and a Grade F7 to EN779 Minicell, ePM1 60%
- Pressure switch with warning lights for dirty filter conditions can be supplied.

UNIT	Flow Rates & Available Pressure *						Unit Dimensions mm				Part Number
	Airflow (m ³ /s)			Clean External Pressure (Pa)			Height	Width	Length	Spigots ** (diameter)	
	High	Med	Low	High	Med	Low					
H14 HEPA + Fan											
HV33	0.22	0.19	0.17	347	425	505	450	450	900	300	1908855
HV63	0.40	0.33	0.25	75	220	285	450	750	900	300	1908857
HV66	0.80	0.65	0.55	116	410	600	750	750	900	500	1908859
Prefiltration + H14 HEPA + Fan											
HV33+	0.22	0.19	0.17	347	425	505	450	450	1250	300	1908856
HV63+	0.40	0.33	0.25	75	220	285	450	750	1250	300	1908858
HV66+	0.80	0.65	0.55	116	410	600	750	750	1250	500	1908860

* Available pressure is with clean filters and includes prefilters

** Spigots are a male connection on Outlet (i.e. manufactured 5mm less than the dimension stated).