

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 supply air 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.

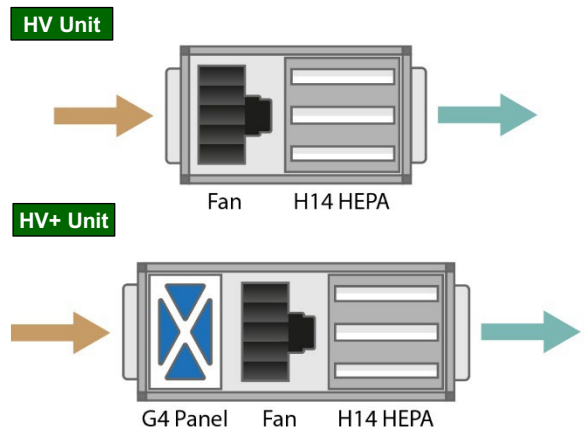
The HEPA Supply Air Fan Unit is fitted with a high pressure and speed adjustable EC fan which is wired to an external terminal box to which power connections and speed adjustments can be made manually via a 0-10V signal potentiometer.

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 75% (G4) to ISO16890. (HV+ UNIT)

Automatic Controls: CO2 Sensor controls or Constant Pressure controls or Constant Volume controls.



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
- Pressure switch with warning lights for dirty filter conditions can be supplied.

UNIT	Flow Rates & Available Pressure		Unit Dimensions mm				Part Number
	Airflow (m³/s)	Clean External Pressure (Pa)*	Height	Width	Length	Spigots ** (diameter)	
H14 HEPA + Fan							
HV33	0.15 – 0.2	150	450	450	900	300	1908855
HV63	0.3 – 0.5	150	450	750	900	300	1908857
HV66	0.5 – 0.8	150	750	750	900	500	1908859
Prefiltration + H14 HEPA + Fan							
HV33+	0.15 – 0.2	100	450	450	1250	300	1908856
HV63+	0.3 – 0.5	100	450	750	1250	300	1908858
HV66+	0.5 – 0.8	100	750	750	1250	500	1908860

* External Pressures are calculated allowing for 100Pa for dirty filters.

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