

CLEAN SUPPLY UNIT

COMPLETE WITH BLOWER & HEPA FILTER

Introduction



Price from
S\$430
(ex-factory Singapore)

Clean supply unit comprises of concealed ceiling mount HEPA filter unit. It creates a clean environment which is dust free and bacteria free. It is suitable for clean room with turbulent flow. **Kyodo Clean Supply Unit** is one of the most effective, quietest and most economical clean room equipment in the market, it is widely used in pharmacy, laboratory, packinghouse and other applications that need special control with dust and bacteria.

Product Features:

- Air tight performance.
- Special design can reduce pressure drop and noise.
- High performance and excellent quality.
- Low energy consumption reduces operating cost.

Constructions:

The casing is made of EG Steel sheet with powder coating.

Room replaceable design, casing can be fixed on the ceiling, the HEPA filter can be replaced after remove the blow-out surface perforated sheet.

Installation:

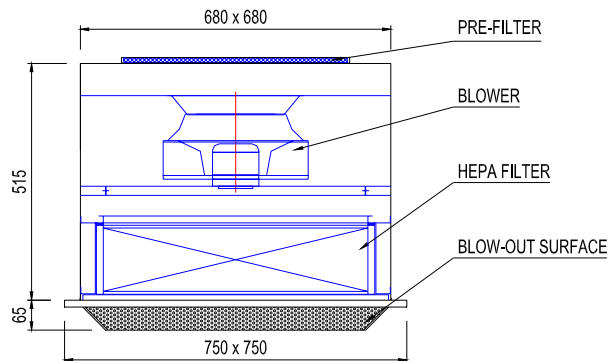
The installation of clean supply unit can only be installed after the clean environment is achieved. This can prolong the HEPA filter life span.

Kyodo clean supply unit is easy for installation. It is used to install on ceiling tee. Please use forklift to unload the goods. To ensure incoming air quality, please reserve enough space for air return.

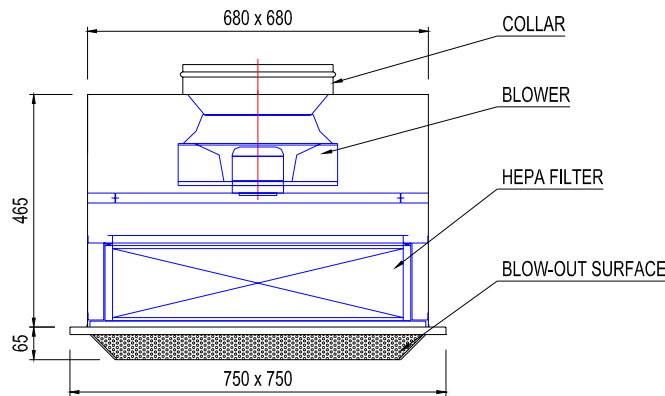
SPECIFICATION	
HEPA FILTER SIZE	610 x 610 x 150 mm
HEPA FILTER EFFICIENCY	99.99% @ 0.3 µm PARTICLE
CONSTRUCTION	STEEL SHEET METAL CASING
BLOW OUT SURFACE	PERFORATED STEEL SHEET
FINISHING	POWDER BAKED EPOXY
POWER SUPPLY	AC 3Φ 200/220/380/415/480V 50/60Hz
WEIGHT	32kg

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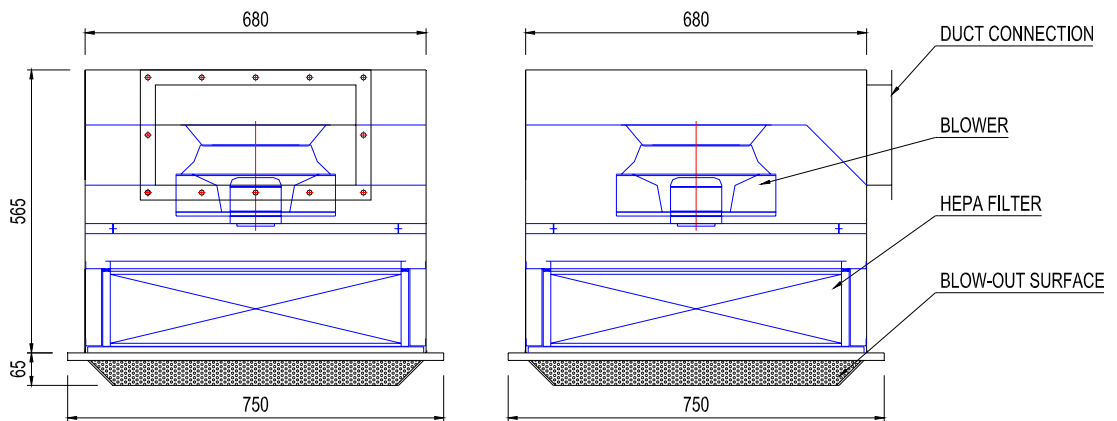
Type A



Type B



Type C

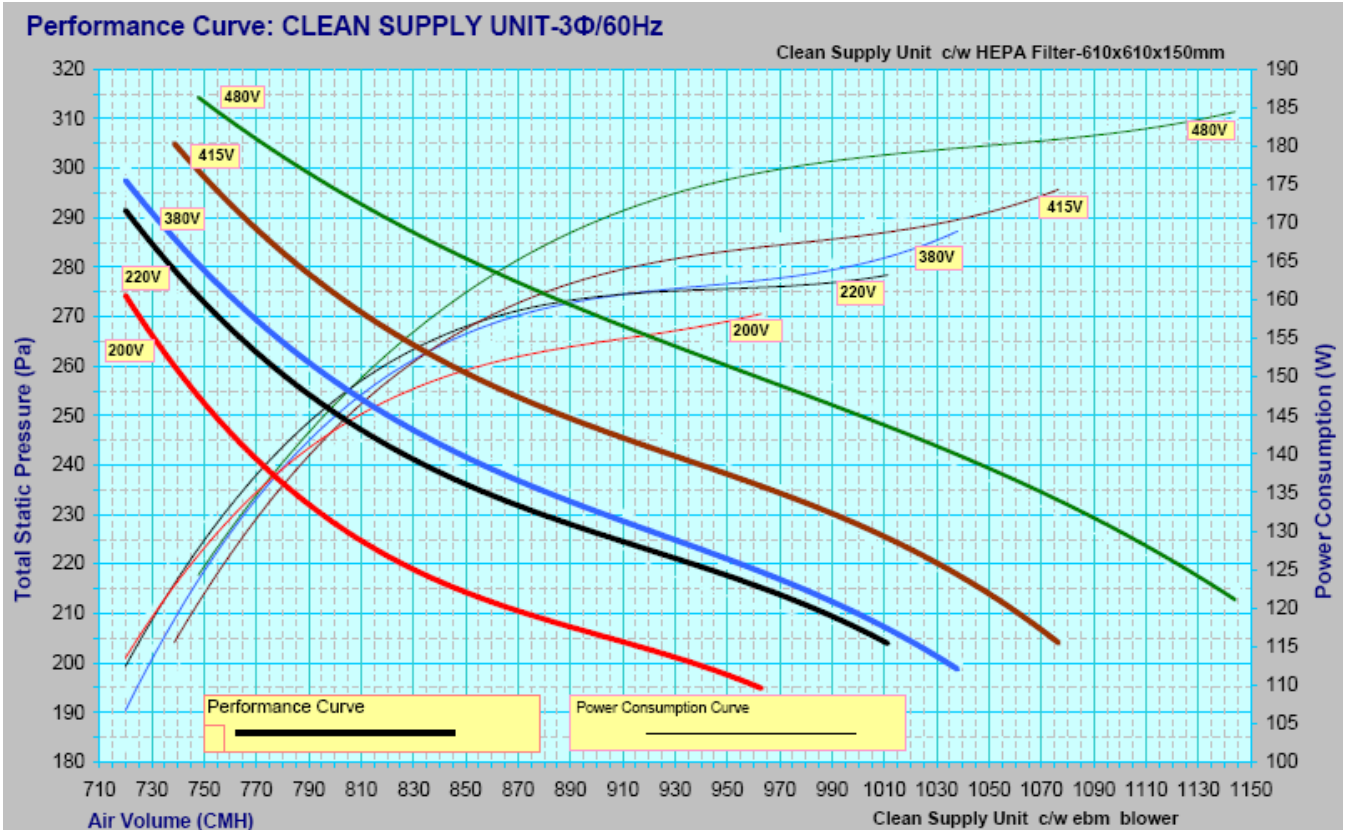
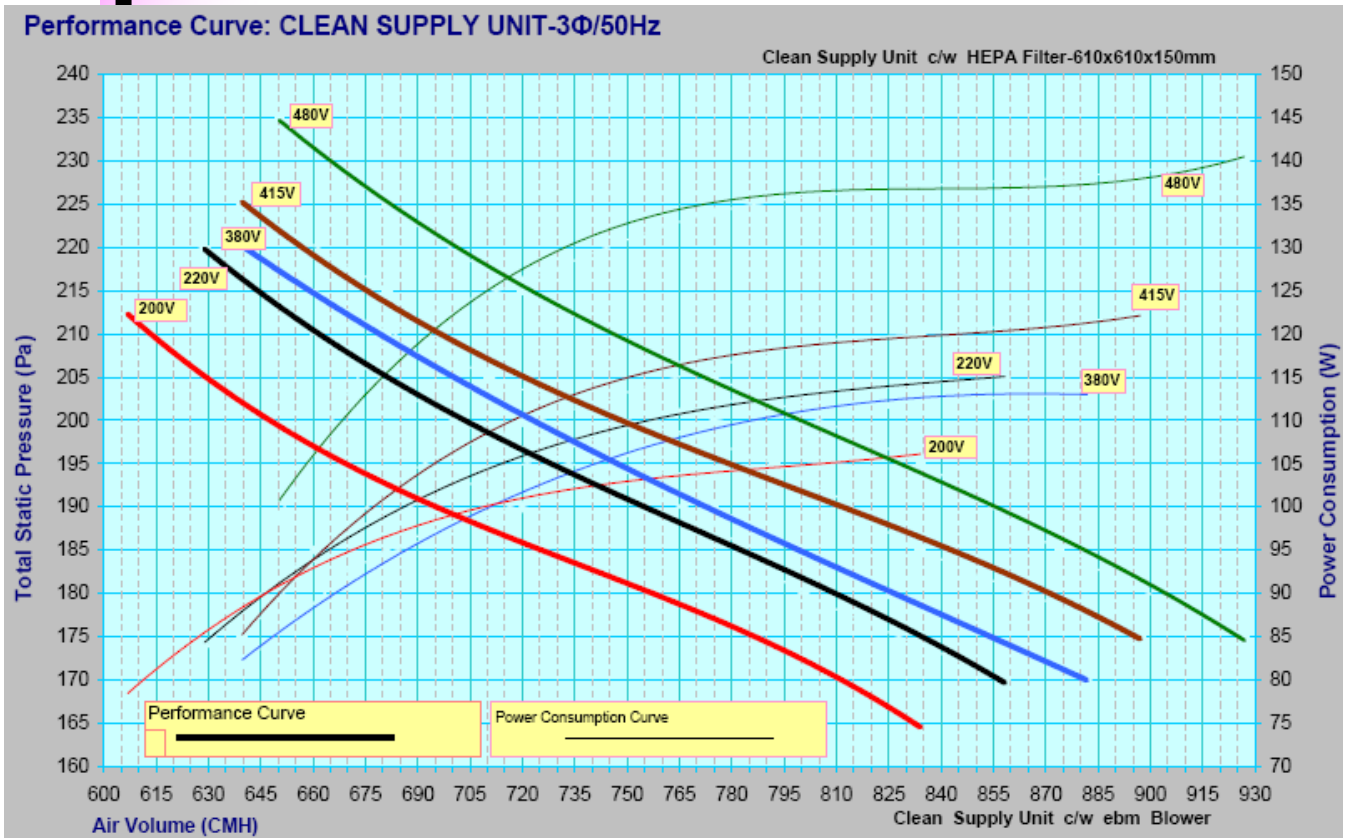


Blower / Motor	ebm Germany
Type	External Rotator, Backward Curve
Impeller	3D Aluminium
Fan Balance Grade	G 2.5
Bearing Maker	SKF or Equal
Motor & Fan balancing	Dynamically balanced. Quality ISO International Standard DIN 1940-E
Bearing Life Time	75,000 hours
Motor Approval	ISO 9001
Motor Insulation / IP	Class F / IP44
RMS Accelebration, G*	< 0.025

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Performance Curve



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ebm Blower

Air performance

Air performance characteristics are determined in a test chamber built to DIN 24163, with the fan measured on its sucking side. They refer to an air density of $\rho = 1.2 \text{ kg/m}^3$ at 20 °C.

With air density ρ changing, pressure build-up also changes, though the air flow remains the same.

Pressure at deviating air density can be calculated roughly by the following equation:

$$\Delta p_2 = \Delta p_1 \frac{\rho_2}{\rho_1}$$

Safety approvals

Depending on the product, ebm-papst fans and blowers comply with EN 60335-1, EN 50178, EN 60950, and EN 60034-1.

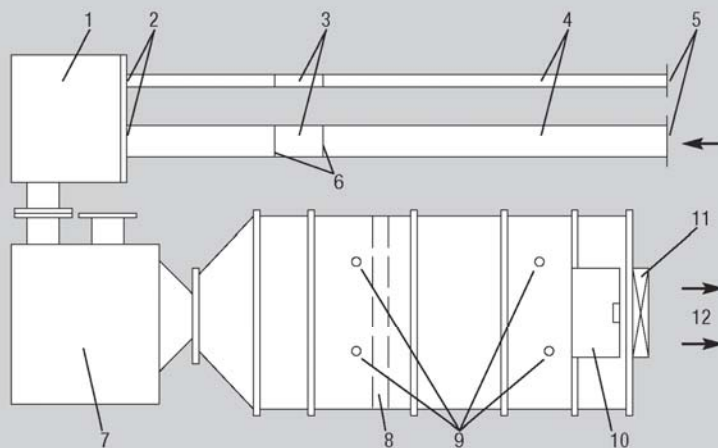
Special requests as to flammability rating have to be specified by the customer.

The major part of the fans and blowers can also be supplied in CE, VDE, UL, GOST, CCC and/or CSA approved design.

Noise level

The noise level as indicated is measured in an echo-free chamber with non-reflective floor, following DIN 45635-1, respectively ISO 3745.

The fan under test is anti-vibration mounted and runs at free air at nominal voltage, in AC also at nominal frequency. The microphone is placed in front of the air inlet, at a distance of one meter. Since the actual operating and mounting conditions usually differ from test conditions, the data given can only be used for comparison.



Test chamber set-up

Test rig according to DIN 24163

- 1) Collector
- 2) Hydraulic shutter
- 3) Venturi tube or nozzle
- 4) 9 ducts with different diameter each for different air volumes
- 5) Air intake (inlet nozzles)
- 6) Measuring points for diff. pressure, air flow
- 7) Auxiliary fan with shutter
- 8) Air flow rectifier
- 9) Measuring points for static pressure, connected by ring pipe
- 10) Door
- 11) Fan under test
- 12) Direction of air delivery, free air