

Clean-Shower™ Down Flow micro climate workstation

Modular construction
Class 100 air
Vertical down flow
Inexpensive

Simple design

Clean-Showers design is based on Moorfields fan filter units that are the backbone of the successful Clean-Tent range of products. The Clean-Shower is a laminar down flow booth designed for use in clean rooms to create a micro climate of approximately two levels better residual particulate quality w.r.t. ambient

The Fan filter unit consists of an epoxy coated steel air box housing a centrifugal fan and air dampers /baffles. At the back of the box is a 400mm square spigot containing pre filter and (if required) flange connection for a supply air duct. On the front of the unit is attached the final filter. This determines the quality of the air supplied. The filter is attached to the frame via a neoprene seal and siliconed into place. H14 Class 100 HEPA's are fitted as standard but other options are available upon request.

The fan is controlled by a variable speed rotary dial and on/off switch mounted on a dado rail attached to a vertical support leg. The fan can provide up to 1100 m³/hr through the filter at the industry standard 0.45 m/sec face velocity. This ensures that the air change rate at the work station is very high for the specified Class specification.

The fan filter unit is mounted on a structural T grid roof on top of a 50mm box section anodised aluminium frame. The frame is enclosed on all sides with clear strip curtains / solid acrylic panels (customer option), designed to allow as much ambient light into the work station as possible.



Image of Clean-Shower series 2400 model

Technical Specification:

Overall dimensions (mm):

CS2400 – 2400(L) x 1200(W) x 2465(H)

Filter size – 1200 x 600 x 85

Filter type – H14 Class 100

Booth size – 2400(L) x 1200(W) x 2100 (H)

Overall dimensions (mm):

CS1200 – 1200(L) x 1200(W) x 2465(H)

Filter size – 1200 x 600 x 85

Filter type – H14 Class 100

Booth size – 1200(L) x 1200(W) x 2100 (H)

Electrical : fan 280W, 230vac 50Hz standard. Supply 5A, 230vac 50Hz single phase 3 pin plug.

Pre-filter: EU8 polyester pre filter. 400mm x 400mm. Life approximately 4 weeks in lab conditions with continuous fan.

HEPA: H14. Vmax at face = 0.45 m/sec
Life approximately 5 years in lab conditions with continuous fan

Fan: M.T.B.F. full speed 20,000 hrs continuous

Options: Electrical pack – lights, dado rail, 2 x sockets; pressure gauge; front face pre filter; external ducting; custom height frame; castor or pads on frame legs