



Customer installation of the weighing booth



Weighing booth

The **clean-tek** weigh-station cabin consists of our wall system which acts as a return air duct, with a flush-mounted integral control terminal for control and monitoring of the laminar flow and return air inlets with return air grill & filter mat. Pre-filters which can be exchanged via the return air inlets are installed within the return air duct. Magnehelic differential pressure gauge for monitoring the pre-filters and main filter are incorporated in the clean room wall. If necessary, **coolers** can be incorporated in the return air duct or in the plenum chamber. The control unit for these can also be incorporated in the control terminal.

The air flow

The laminar air flow is generated via our LFM 2013 Laminar Flow Modules. The design allows illumination to be installed underneath the air outlet face – teardrop lights are particularly suitable for this. The outlet speed of 0.45 m/s is usual for a weighing booth. If lower outlet speeds are permissible, we recommend installation of a sterile air / CG distributor. The sterile air distributor can be made of finely woven polyester fabric or finely woven stainless steel mesh. These create a small pressure differential which ensures that the air flow is evenly distributed over the outlet surface.

A PVC curtain assists in directing the air flow, thus preventing the escape of active materials and supporting the creation of a slight underpressure in the weighing area.

Maintenance

All maintenance work must be done from the clean room side. Such work includes changing filters, replacing fluorescent tubes or extension / modification of the control cabinet.



Integrated Return-air



Weighingbooth

Technical data

Material

Wall elements	Sheet steel Stainless steel Aluminium
Colour	RAL 9002, 9010 Stainless steel, brushed Special colours on request

Return air duct

Length	Variable
Height	Max. 6000 mm
Depth	660 mm
Pre-filter monitoring	Magnehelic 0-300 Pa
Main filter monitoring	Magnehelic 0-300 Pa

Filters

Filtermat	G4
Pre-filter	F7/F9
Main filter	H13/H14

Operating modes

Buttons	Sleep/Activated On/Off Illumination
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Laminar Flow Module

Control unit	UNIcon activation of up to 32 Laminar Flow Modules
Digital display	UNIcon: automatic speed regulation
Air-speed sensor	Schmidt Technology 20.250



Example of an installed weighing booth with laminar flow module, teardrop light and PVC curtain



Control element