

HEPA and ULPA Terminal Hoods

TDUG-B T-DUG-A



Product	TDUG-B	TDUG-A
MPPS efficiency*	99,995 %	99,9995 %
CEN EN 1822 classification	H 14	U 15
Suggested final pressure drop	400 Pa	400 Pa
Maximum pressure drop	600 Pa	600 Pa
Maximum operating temperature	60°C	60°C
Maximum relative humidity	90 %	90 %

* Average efficiency. Punctua efficiency has an admitted penetration rate 5 times higher.

TDUG-B and TDUG-A terminal hoods are used to create sterile rooms with vertical laminar flow; they are generally installed in false ceilings with proper aluminum profiles. The frame of the hoods is made of extruded anodized aluminum and is connected with a single-block polystyrene plenum, self-extinguishing, stamp-formed and fitted with circular collar.

The filter medium is made of micro-fiber glass, water-proof and fire-proof, mini-pleated with constant pitch; the sealant used is polyurethane based. These filters are fitted with thermo-plastic continuous separators. The terminals have white epoxy painted micro-drawn steel

protection grids. TDUG terminal hoods come in two versions: TDUG-A ULPA class and TDUG-B HEPA class. All the filters are individually tested through a scanning system; at the end of the test they are labeled with the test results.

for application in areas where air cleanness is a determining factor for the quality of production.

Applications

TDUG-A and TDUG-B terminal hoods are installed in controlled contamination rooms where very high air cleanness levels are required: electronic, pharmaceutical industries, laboratories, etc. They have been specifically designed

Installation

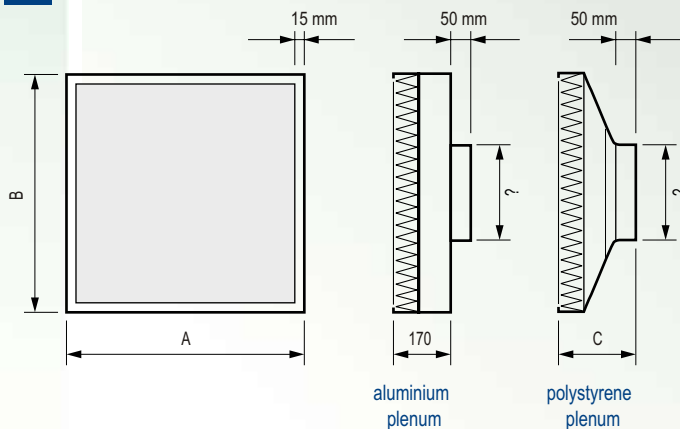
The two TDUG-A and TDUG-B terminals are installed using proper supporting ceiling frames, that guarantee high sealing tightness between the frame and the ceilings. The terminals are connected using flexible circular ducts to the ducts of the conditioning system. A light depression is kept and maintained in the false ceiling to prevent non-filtered air from entering the clean room below.

Type	Dimensions (mm)			Collar ø (mm)	Nominal air rate flow		Filtration media m ²	Initial pressure drop Pa	
	A	B	C		m ³ /h	m ³ /sx10 ⁻³ *		T DUG-B	TDUG-A
TDUG-B									
T DUG-A									
3 **	305	x 305	x 220	150	150	42	2,5	130	150
42	305	x 610	x 220	200	300	84	5	130	150
43 **	457	x 457	x 220	250	340	95	5	130	150
4	610	x 610	x 220	250	600	167	10	130	150
8	610	x 915	x 220	250	900	250	15	130	150
9	610	x 1219	x 220	250	1200	333	19	130	150
82	915	x 915	x 220	250	1355	376	22	130	150

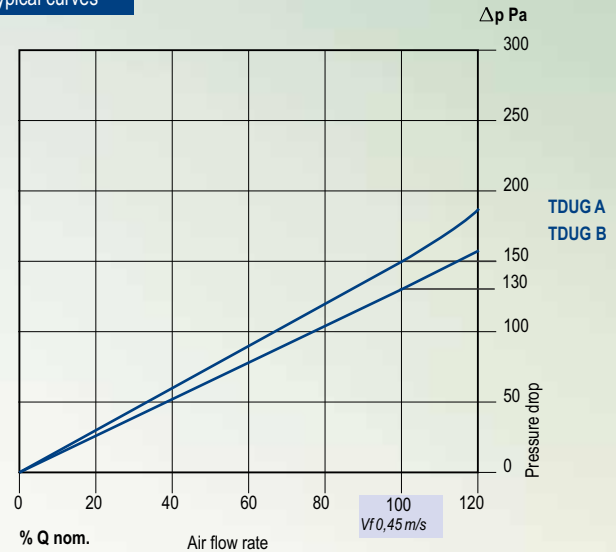
*1 m³/s x 10⁻³ = 1 l/s

** Type available only with aluminium plenum

Size



Typical curves

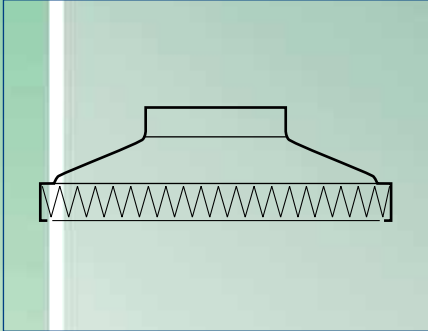


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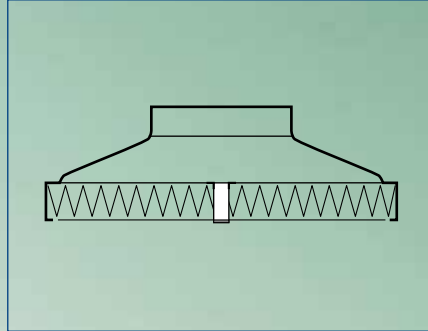
CARBOFILT activated carbon filters

TDUG-B T-DUG-A OPTIONS



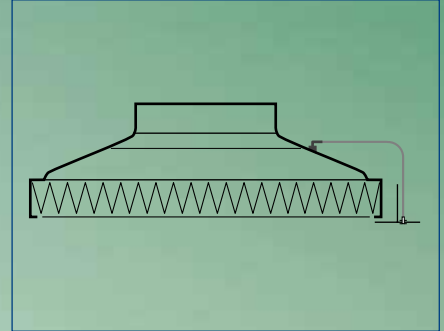
TDUG B.....

Standard terminal with perforated equalizer panel



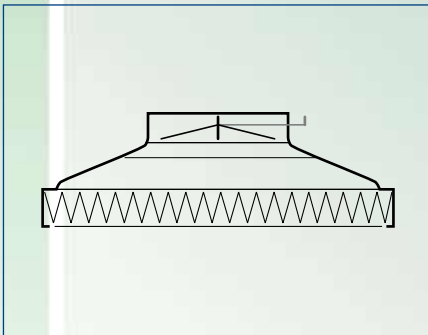
TDUG B...../D

Standard terminal with perforated equalizer panel and D.O.P. Test "D" port on filter separator.



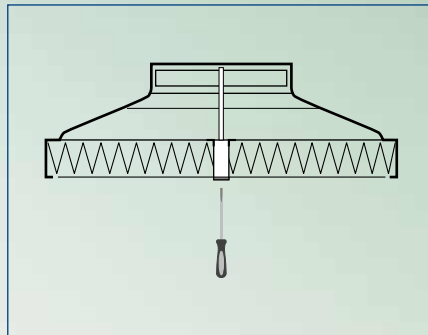
TDUG B...../T

Standard terminal with perforated equalizer panel and D.O.P. test "T" port on plenum.



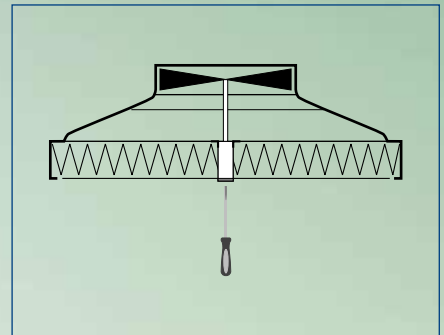
TDUG B...../F

Standard terminal with perforated equalizer panel and adjustable damper from false ceiling.



TDUG B...../DD

Standard terminal with perforated equalizer panel and D.O.P. test "D" port on filter separator and adjustable perforated disk on the axis from clean side of filter with adjustable equalizer function (limited) from supply.



TDUG B...../DR

Standard terminal with perforated equalizer panel and D.O.P. test "D" port on filter separator, multiple blade adjustable damper from clean side of filter.

Options on request

t	: D.O.P. test — port on plenum
d	: D.O.P. test — port on face in the middle of the filter
f	: adjustable damper from false ceiling
dr	: D.O.P. test + adjustable damper in the middle of the filter
dd	: D.O.P. test + adjustable perforated disk in the middle of the filter
c ₁	: individual testing certificate
c ₂	: lot testing certificate
fl	: aluminum equalizer
lv	: equalizing micromesh membrane air outlet side