

BAG EMPTYING FILTER - TRV SERIES

Technical catalogue: Filters
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Revised: 20.11.2018

Summary

The TRV-Series of, self-contained, bag emptying filters are an economic and effective dust collector, developed over many years of operation, to deliver improved levels of filter performance and fan efficiency.

Classified as low pressure - high volume, they are intended for use with close coupled ducting systems for the capture, transportation and separation of coarse dust particulate.

Overview

The TRV-Series are available in either single, twin or triple bag arrangement and can be specified for fixed installation (secured to the floor) or mobile (mounted on optional trolley).

Supplied as standard with filter bags manufactured from calico, the TRV-Series can also be supplied with, optional, terylene needle felt woven bags or even polyester pleated cartridge filters.

Construction

Built to provide many years of service, the TRV-Series is manufactured from heavy-gauge galvanised steel, finished in a hard-wearing, RAL 7035, paint finish.

The directly-driven, dynamically balanced, impeller is manufactured from heavy-gauge steel plate to ensure very stable and vibration free performance.



TRV1 & TRV2 static, with calico media

TRV Electrical Control

NVR (no-current-release) Switch, with Emergency Stop



TRV Secure Filter/Bag Retention

NVR Quick Release Strap



Filtration Technology

The FERCELL range of economical water spray booths are manufactured in standard widths from 1.1 metre to 6.6 metres, with specials made to a customer's requirements.

Extraction Power

Extraction is provided by a heavy plate steel, radial impeller connected directly to a continuously rated high-speed, 415v 3Phs, TEFC electric motor.

Control

A no-voltage-release switch assembly is mounted directly to the electric motor, equipped with start, stop and emergency 'SLAP' stop.

Benefits

- Inexpensive, efficient and quite running
- Robust build for demanding trade workshop environments
- High airflow for effective suction, even over extended distances
- Multiple filter technology options
- Large collection capabilities, either in plastic waste sacks, or optional steel bins
- Low maintenance costs
- Fast delivery, from stock

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Filter Technology & Efficiency

The TRV can be supplied with the standard calico media, or alternatively with either TNF bag/s or polyester cartridge/s.

Filtration efficiency is based upon the filter element supplied, ranging from 98% at 30 microns for the standard calico filter elements to 98% at 1 micron for the cartridge elements.

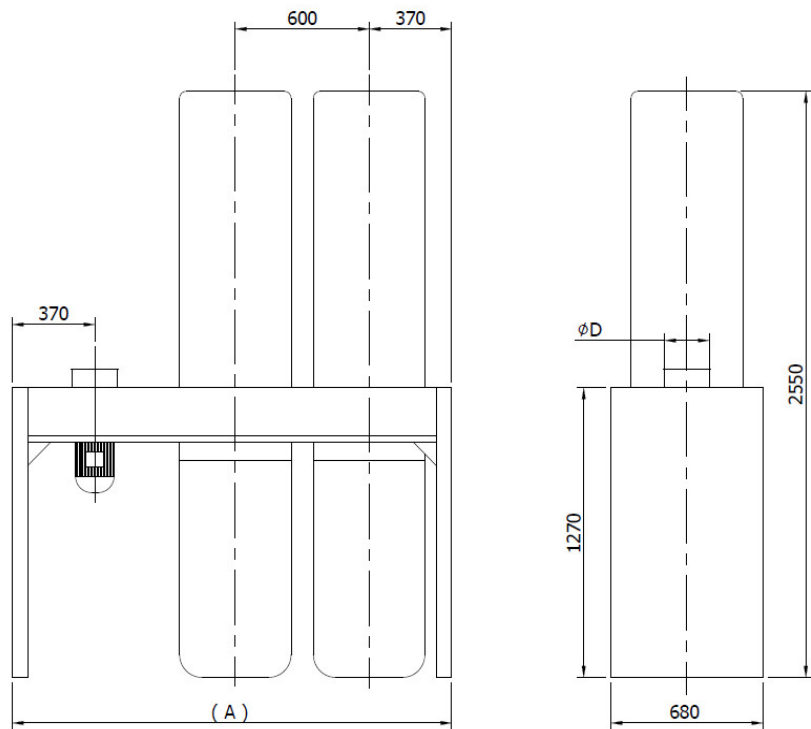
Principle of Operation

When connected to a centralised duct system, the TRV-Series provides suction for the purpose of dust extraction. Waste materials, are collected directly into, either, heavy-duty, plastic collection sack/s or steel bin/s, located beneath the filter body. The collection arrangements are easily emptied by means of quick release straps, for minimal downtime.

Air exhausts through, either bag or cartridge, filter/s, directly to the space around the unit.

Options

Available with options for different filtration technology and collection facilities.



TRV2 Filter Dimensions (refer to ^ details in table below)

Specification

	TRV-1	TRV-2	TRV-3
Code	885015/010 [885010/010]	885015/020 [885010/020]	885015/030 [885010/030]
Airflow (Max.)	1,320 m³h	2,650 m³h	3,980 m³h
Static Pressure (Max.)	1,190 Pa	1.280 Pa	1.320 Pa
Filter Number	One	Two	Three
Filtration Area*	2.2 m²	4.5 m²	6.7 m²
Filtration Efficiency*	30 micron	30 micron	30 micron
Filter Size*	500mmø x 1,300mm	500mmø x 1,300mm	500mmø x 1,300mm
Collection Capacity	0.22 m³ (220 Litres)	0.44 m³ (440 Litres)	0.66 m³ (660 Litres)
Installed Power	2.2 kW	3.0 kW	4.0 kW
Voltage	400v	400v	400v
Phase	3 Phs	3 Phs	3 Phs
Electrical Connection	EEC Socket 3Phs + T	EEC Socket 3Phs + T	EEC Socket 3Phs + T
Sound Power Level [**]	75 dB(A) [+/- 3 dB]	76 dB(A) [+/- 3 dB]	77 dB(A) [+/- 3 dB]
Suction Port Dimension	150 mmø	200 mmø	250 mmø
Length^	1,375 mm	1,975 mm	2,600 mm
Width^	680 mm	680 mm	680 mm
Height^	2,550 [2,720] mm	2,550 [2,720] mm	2,550 [2,720] mm
Weight [***]	69 [87] Kgs	97 [139] Kgs	150 [175] Kgs

* calico media **tolerance ***trolley