

FILTOWER-F



3 Different Applications
3 Different Sizes

FILTOWER-F – Welding Fume
FILTOWER-D – Dust
FILTOWER-L – Oil- & Emulsion Mist

FILTOWER-100 – 10.000 m³/h
FILTOWER-160 – 15.000 m³/h
FILTOWER-200 – 20.000 m³/h

*Up to 70%
 Heating cost savings!*

ESTAPLUS

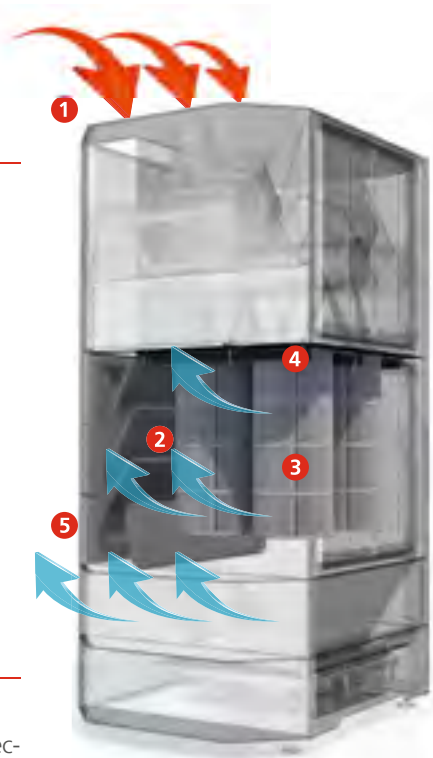
Special Features

- » Two parallel-connected fans, separately switchable
- » Three power stages – suitable for each application
- » New, patented filter change system for low-dust filter exchange
- » Highly effective pre-separation system
- » Low-impulse air leakage
- » Mobile dust collection drawer with disposal box and with collection insert for FILTOWER L

Your Benefits

- » Best air quality in the workplace
- » Plug & Play: Position, connect electricity and compressed air – done!
- » Powerful and low-noise suction
- » Can be placed in the work area (no pipe installation)
- » Flexible deployment; easy to move with forklift or crane
- » Low operating costs thanks to cleanable permanent filter cartridges

Data dependent on equipment type



- 1 Extraction of contaminated air
- 2 **Pre-separation system**
 (calculated separation efficiency >80% for particles ≥ 50 µm) serves as a spark pre-separation system and filters coarse particles.
- 3 Filtration of residual dust particles through long life cartridge filters with nanofibers of dust class M (99.9% separation efficiency)
- 4 Easy filter change of highly-effective long life cartridge filters thanks to the newly-developed, patented **ESTA QuickChange filter change system**
- 5 Low-draft recirculation via outlets on side

* Patent pending



Movable dust collection drawer



Intuitive device control

FILTOWER-F



FILTOWER-F 160

For welding fume

Application Range

- » Supplementary solution for maintaining dust limits, where extraction at certain points alone will not suffice
- » For welding processes, for which suction at specific points is impractical
- » For supporting direct extraction
- » For improving room air quality



Ideal for

Welding fume

Soldering fume



Product Video

Special Versions

- » With IFA test certificate "W3" for extraction during welding of high-alloy steel
- » Optionally with activated carbon applications for the filtration of gases and odorous substances
- » With frequency converter for regulating extraction performance
- » Special voltage
- » Special paint



Dust Extractors

High Vacuum
Extraction Units

Welding Fume
Filters

Oil Mist
Separators

Carbon Filter

Downdraft
Tables

Extraction Fans

Extraction Arms

Filter Towers

Central Extraction
Systems

Pipe Systems

FILTOWER-D und FILTOWER-L



FILTOWER-D 160

For dusts

Ideal for

- Fine, floating particulate matter
- Plastic dust
- Chemical dust
- Bulk material applications

Application Range

- » Supplementary solution for maintaining dust limits, where extraction at certain points alone will not suffice
- » For improving room air quality

Special Versions

- » Optionally with activated carbon applications for the filtration of gases and odorous substances
- » With frequency converter for regulating extraction performance
- » Special voltage
- » Special paint



FILTOWER-L 160

For Oil- and emulsion mist

Ideal for

- Aerosols
- Oilmist
- Emulsion mist
- Fumes

Application Range

- » Supplementary solution for maintaining limits
- » For supporting direct extraction on cutting
- » Production machinery (CNC-processing)
- » For improving room air quality

Special Versions

- » Optionally with activated carbon applications for the filtration of gases and odorous substances
- » With frequency converter for regulating extraction performance
- » Special voltage
- » Special paint

NEW

FILTOWER *ecolight* and FILTOWER *eco+*



FILTOWER *ecolight*

The *ecolight* design ensures that the FILTOWER's extraction performance can be adjusted manually **as appropriate** during operation, which raises the level of efficiency and optimises operating costs.

This is made possible by the new **ESTA EasyControl** controller and the use of frequency converters to **regulate the air volume flow**.

FILTOWER *ecolight* design:

- » ESTA EasyControl device control
- » Frequency converter
- » Adjustable timer



FILTOWER *eco+*

The FILTOWER *eco+* series combine outstanding extraction and filtration performance for maximum efficiency at low operating costs. All thanks to the new **ESTA EasyControl device control** with sophisticated sensor technology and the application of frequency converters.

FILTOWER *eco+* design:

- » ESTA EasyControl device control
- » Frequency converter for fan motors
- » Programmable timer
- » Dust sensors in the raw gas and clean air areas for performance control as well as residual dust and filter break monitoring
- » Level measurement in collection container



ESTA EasyControl is a newly-developed device control that ensures energy-efficient device operation with state-of-the-art sensor technology. **Power savings of up to 50%** compared to conventional differential pressure controls are obtained through current volume flow measurement and the fully-automated regulation of the extraction performance based on the operating parameters.

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NEW

FILTOWER 4.0 and FILTOWER ecotemp



FILTOWER 4.0

Intelligently connected and energy-saving: the FILTOWER 4.0 models have integrated protocol and network functions. Measurement and operating data can be processed quickly and easily in digital form. In addition to the **ESTA EasyControl device control**, frequency converters ensure efficient operation.

FILTOWER 4.0-design:

- » Protocol and network functions via customer's LAN network
- » Digital installation support
- » ESTA EasyControl device control
- » Frequency converter for fan motors
- » Programmable timer
- » Dust sensors in the raw gas and clean air areas for performance control as well as residual dust and filter break monitoring
- » Level measurement in collection container



FILTOWER ecotemp

In addition to the outstanding extraction and filtration abilities, the filter towers in the **ecotemp** range also create a comfortable room climate in the working area.

FILTOWER ecotemp design:

- » Energy-efficient cooling or heating possible by two slatted heat exchangers
- » Stepless regulation of temperature
- » Environmentally friendly (water quantity: 4 m³/h / Connection: 1 inch)
- » Low maintenance costs through clean gas side installation
- » Drain taps for condensation
- » Stainless steel drip tray
- » Low loss of pressure through large vector surface



ESTA EasyControl is a newly-developed device control that ensures energy-efficient device operation with state-of-the-art sensor technology. **Power savings of up to 50%** compared to conventional differential pressure controls are obtained through current volume flow measurement and the fully-automated regulation of the extraction performance based on the operating parameters.

FILTOWER-Series at a glance

	Standard	ecolight	eco ⁺	4.0
ESTA QuickChange filter changing system	●	●	●	●
Jet pulse filter cleaning	●	●	●	●
Fans with IE3 motor drive	●	●	●	●
ESTA Easy Control controller	×	●	●	●
Frequency converter	○	●	●	●
Simple volumetric flow control	×	●	●	●
Timer	×	○	○	○
Automatic control of the suction power using dust sensors	×	×	●	●
Residual dust and filter monitoring	×	×	●	●
Level measurement in the dust collection vessel	×	×	●	●
Digital levelling aid	×	×	○	●
Recording of the operational data	×	×	○	●
Remote maintenance and control via LAN/WiFi	×	×	×	●
<i>ecotemp</i>	○	○	○	○

● = included ○ = optional × = not included

OPTIONS AND SPECIAL VERSIONS – ACCOMODATING INDIVIDUALITY

- » Fire sensor with extinguishing system
- » Ecotemp design with heating and/or cooling module*
- » Activated carbon inserts for filtering gases and odorous substances
- » Special coating in RAL colour
- » IFA test certificate W3 for extraction when welding high-alloy steels**



* Only available as a new purchase
** FILTOWER F

- Dust Extractors
- High Vacuum Extraction Units
- Welding Fume Filters
- Oil Mist Separators
- Carbon Filter
- Downdraft Tables
- Extraction Fans
- Extraction Arms
- Filter Towers
- Central Extraction Systems
- Pipe Systems

FILTOWER

Technical Data

FILTOWER		100	160	200
Max. Airflow	m ³ /h	10.000	15.000	20.000
Max. negative pressure	Pa	2.800	2.800	2.800
Voltage	V	400	400	400
Motor	kW	2 × 3.0	2 × 4.0	2 × 7.5
Filter surface	m ²	100	160	200
Filter elements	Piece	4	4	4
Dust collection container	l	150	150	150
Dimensions (L/W/H)	mm	2.060 × 1.510 × 2.950	2.060 × 1.510 × 3.350	2.060 × 1.510 × 3.850
Weight	kg	1.100	1.200	1.500
Sound emission	dB(A)	71	75	77

Order Number	100	100 <i>ecotemp</i>	160	160 <i>ecotemp</i>	200	200 <i>ecotemp</i>
FILTOWER F Standard	667100	690100	667160	690160	–	–
With test certificate W3	664100	703100	664160	703160	680200003	699200003
<i>ecolight</i>	680100	699100	680160	699160	680200	699200
<i>eco+</i>	670100	696100	670160	696160	670200	696200
4.0	673100	691100	673160	691160	673200	691200
FILTOWER D Standard	663100	694100	663160	694160	–	–
<i>ecolight</i>	676100	701100	676160	701160	676200	701200
<i>eco+</i>	671100	698100	671160	698160	671200	698200
4.0	674100	695100	674160	695160	674200	695200
FILTOWER L Standard	660100	692100	660160	692160	–	–
<i>ecolight</i>	677100	700100	677160	700160	677200	700200
<i>eco+</i>	672100	697100	672160	697160	672200	697200
4.0	675100	693100	675160	693160	675200	693200

