

## FILTOWER-F



### 3 Different Applications

### 3 Different Sizes

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

**FILTOWER-100** – 10.000 m<sup>3</sup>/h  
**FILTOWER-160** – 15.000 m<sup>3</sup>/h  
**FILTOWER-200** – 20.000 m<sup>3</sup>/h

## Up to 70% Heating cost savings!

### ESTAPLUS

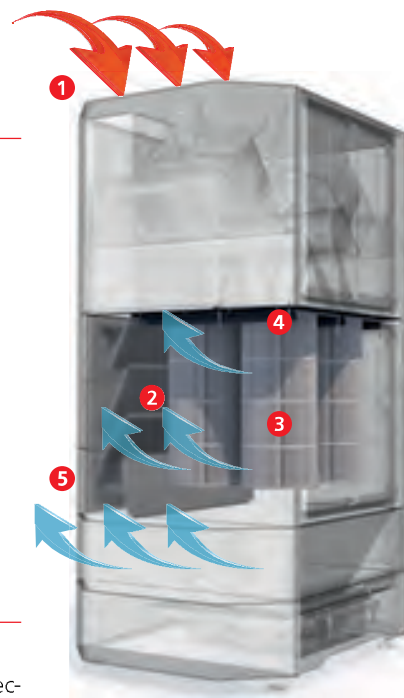
#### Special Features

- » 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, **ESTA QuickChange filter change system**
- 5 Low-draft recirculation via outlets on side



Movable dust collection drawer



Intuitive device control

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-F



FILTOWER-F 50

For welding fume



Ideal for

Welding fume

Soldering fume



Product Video

### 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

### 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



FILTOWER-F 160



## 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

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**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.

**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 m<sup>3</sup>/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



Fully equipped industrial coolers ready for connection, suitable for indoor and outdoor installation

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## FILTOWER-Series at a glance

	Standard	<i>ecolight</i>	<i>eco+</i>	<b>4.0</b>
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 erection 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\*\*

**W3**



\* Only available as a new purchase  
\*\* FILTOWER F

## FILTOWER

### Technical Data

FILTOWER		50	100	160	200
Max. Airflow	m³/h	5.600	10.000	15.000	20.000
Max. negative pressure	Pa	3.300	2.800	2.800	2.800
Voltage	V	400	400	400	400
Motor	kW	4.0	2×3.0	2×4.0	2×7.5
Filter surface	m²	56	100	160	200
Filter elements	Piece	4	4	4	4
Dust collection container	l	100 – 150	150	150	150
Dimensions (L/W/H)	mm	2.180 × 3.000 × 2.400	2.060 × 1.510 × 2.950	2.060 × 1.510 × 3.350	2.060 × 1.510 × 3.850
Weight	kg	445	1.100	1.200	1.500
Sound emission	dB(A)	78	71	75	77

### Order Number

	50	100	100 <i>ecotemp</i>	160	160 <i>ecotemp</i>	200	200 <i>ecotemp</i>
<b>FILTOWER F</b> Standard	–	667100	690100	667160	690160	–	–
With test certificate W3	–	664100	703100	664160	703160	680200003	699200003
<i>ecolight</i>	680050	680100	699100	680160	699160	680200	699200
<i>eco+</i>	–	670100	696100	670160	696160	670200	696200
4.0	–	673100	691100	673160	691160	673200	691200
<b>FILTOWER D</b> Standard	–	663100	694100	663160	694160	–	–
<i>ecolight</i>	676050	676100	701100	676160	701160	676200	701200
<i>eco+</i>	–	671100	698100	671160	698160	671200	698200
4.0	–	674100	695100	674160	695160	674200	695200
<b>FILTOWER L</b> 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



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