

## FTEC 10 Series

### 4" Fan Filters/Exhaust Filters

#### Specification sheet

#### Certificates

- UL and cUL Listed, File Number E497874
- CSA and CSAus Listed, File Number 80030884
- CE Compliant

#### Application

FTEC10 series Fan Filters and Exhaust Filters are designed to supply forced convection filtered air for enclosures and electrical panels. By using the unique filtering and cooling features, FTEC will cool down the inside of enclosures to a desired temperature to protect the electrical and electronic parts against heat.

#### Features

- Type 12 and Type 3R NEMA Rating-NO HOOD REQUIRED
- IP 54 using G3 filter mat and IP 55 using G4 filter mat
- 115 VAC, 230 VAC, 12, 24, and 48 VDC available
- Polyurethane sealing gasket
- Ball bearing Fan
- Easily snaps into place without the use of screws
- Washable and reusable filter mat
- Robust flame-retardant plastic housing, UL 94-V0
- Operating/Storage Temperature: -4 °F to +158 °F / -20 °C to +70 °C
- UV Resistant

#### Colors

- RAL 7035 – Light Gray
- RAL 7032 – Dark Gray
- RAL 9011 – Black
- Custom Colors upon request



# FTEC10



# FTEC10 series Performance Chart - 4" Fan Filter and Exhaust Filter

| NEMA Rating  | Type 12                                       |                       |                   | Type 12 or Type 3R                            |                       |                     |
|--|---|-----------------------|-------------------|---|-----------------------|---------------------|
|  | IP 54   |                       |                   | IP 55   |                       |                     |
| Filter Media   | G3  |                       |                   | G4  |                       |                     |
| Rated Voltage  | 100-120 VAC                                   | 200-240 VAC           | 12/24/48 VDC      | 100-120 VAC                                   | 200-240 VAC           | 12/24/48 VDC        |
| Frequency  | 60/50 Hz                                      |                       |                   | 60/50 Hz                                      |                       |                     |
| Bearing  | Two Ball Bearing                              | Two Ball Bearing      | Two Ball Bearing  | Two Ball Bearing                              | Two Ball Bearing      | Two Ball Bearing    |
| Power connection   | 3 Poles screwless connector or 2 Pin terminal |                       | Wires             | 3 Poles screwless connector or 2 Pin terminal |                       | Wires               |
| Fan Filters Colors   |   |                       |                   |   |                       |                     |
| RAL 7035 Light Gray  | FTEC10L4X-115SB                               | FTEC10L4X-230SB       | FTEC10L4X-(*)DSB  | FTEC10L5(**)-115SB                            | FTEC10L5(**)-230SB    | FTEC10L5(**)-(*)DSB |
| RAL 7032 Dark Gray   | FTEC10D4X-115SB                               | FTEC10D4X-230SB       | FTEC10D4X-(*)DSB  | FTEC10D5(**)-115SB                            | FTEC10D5(**)-230SB    | FTEC10D5(**)-(*)DSB |
| RAL 9011 Black   | FTEC10B4X-115SB                               | FTEC10B4X-230SB       | FTEC10B4X-(*)DSB  | FTEC10B5(**)-115SB                            | FTEC10B5(**)-230SB    | FTEC10B5(**)-(*)DSB |
| Reverse Flow Fan Filter  | FTEC10L4X-115RB                               | FTEC10L4X-230RB       | FTEC10L4X-(*)DRB  | FTEC10L5(**)-115RB                            | FTEC10L5(**)-230RB    | FTEC10L5(**)-(*)DRB |
| Flow Capacity (CFM-m³/hr at 60/50 Hz) and Maximum Static Pressure (in H <sub>2</sub> O-Pa at 60/50 Hz) |   |                       |                   |   |                       |                     |
| Unimpeded (***)  | 15/14 CFM-26/24 m³/hr                         | 15/14 CFM-26/24 m³/hr | 38 CFM- 65 m³/hr  | 14/11 CFM-24/19 m³/hr                         | 14/11 CFM-24/19 m³/hr | 35 CFM-60 m³/hr     |
| In combination   |   |                       |                   |   |                       |                     |
| Fan Filter+Exhaust Filter  | 11/9 CFM-19/16 m³/hr                          | 11/9 CFM-19/16 m³/hr  | 26 CFM- 45 m³/hr  | 10/8 CFM-17/14 m³/hr                          | 10/8 CFM-17/14 m³/hr  | 22 CFM-37 m³/hr     |
| Max. Static Pressure   | 0.18/0.13-46/33                               | 0.18/0.13-46/33       | 0.32-80           | 0.15/0.12-37/30                               | 0.15/0.12-37/30       | 0.30-75             |
| Fan Filter+Reverse Flow Fan Filter   | 13/12 CFM-22/20 m³/hr                         | 13/12 CFM-22/20 m³/hr | 35 CFM-60 m³/hr   | 12/11 CFM-20/19 m³/hr                         | 12/11 CFM-20/19 m³/hr | 32 CFM-55 m³/hr     |
| Max. Static Pressure   | 0.20/0.16-50/40                               | 0.20/0.16-50/40       | 0.34-85           | 0.18/0.14-46/35                               | 0.18/0.14-46/35       | 0.31-78             |
| Other Fan Filters Data   |   |                       |                   |   |                       |                     |
| Power Input  | 12/14 W                                       | 12/14 W               | 2.2/2.9/3.8 W     | 12/14 W                                       | 12/14 W               | 2.2/2.9/3.8 W       |
| Weight   | 550 gram /1.21 lb                             |                       | 230 gram /0.51 lb | 550 gram /1.21 lb                             |                       | 230 gram /0.51 lb   |
| Noise Level  | 38/33 dB (A)                                  |                       | 55 dB (A)         | 38/33 dB (A)                                  |                       | 55 dB (A)           |
| Durability (hrs at 35 °C)  | 50,000  | 50,000                | 60,000            | 50,000  | 50,000                | 60,000              |
| Operating Temperature  | -20 to +70 °C / -4 to +158 °F                 |                       |                   | -20 to +70 °C / -4 to +158 °F                 |                       |                     |
| Dimensions   | 4.57" X 4.57" X 2.95" / 116 X 116 X 75 mm³    |                       |                   | 4.57" X 4.57" X 2.95" / 116 X 116 X 75 mm³    |                       |                     |
| Certificates   | CSA-UL-CE                                     |                       |                   | CSA-UL-CE                                     |                       |                     |
| Exhaust Filter-Colors  | Type 12-IP 54                                 |                       |                   | Type 12 or Type 3R-IP55                       |                       |                     |
| RAL 7035 Light Gray  | FTEC10L4X                                     |                       |                   | FTEC10L5(**)                                  |                       |                     |
| RAL 7032 Dark Gray   | FTEC10D4X                                     |                       |                   | FTEC10D5(**)                                  |                       |                     |
| RAL 9011 Black   | FTEC10B4X                                     |                       |                   | FTEC10B5(**)                                  |                       |                     |
| Dimensions   | 4.57" X 4.57" X 1.22" / 116 X 116 X 31 mm³    |                       |                   | 4.57" X 4.57" X 1.22" / 116 X 116 X 31 mm³    |                       |                     |
| Weight   | 100 gram / 0.22 lb                            |                       |                   | 100 gram / 0.22 lb                            |                       |                     |
| Certificates   | CSA-UL-CE                                     |                       |                   | CSA-UL-CE                                     |                       |                     |
| Accessories  |   |                       |                   |   |                       |                     |
| Replacement Filter Media   | FTEC10-FM-4                                   |                       |                   | FTEC10-FM-5                                   |                       |                     |
| NO Thermostat (°C)   | TTEC-200-C / ETEC-400                         |                       | ETEC-400          | TTEC-200-C / ETEC-400                         |                       | ETEC-400            |
| NO Thermostat (°F)   | TTEC-200-F / ETEC-400                         |                       | ETEC-400          | TTEC-200-F / ETEC-400                         |                       | ETEC-400            |

(\*) 12 means 12 VDC, 24 means 24 VDC, and 48 means 48 VDC

(\*\*\*) Flow capacity at 90 VAC - 60 Hz (Type 12) is 13.5 CFM

(\*\*) X represents Type 12, IP 54 or IP 55, Z represents Type 3R IP 55

10



