



## FR Inline duct fans

### Low airflow resin fans for various applications

- Durable, leak-free, low-noise operation
- Corrosion and heat-resistant housing
- Indoor/outdoor use
- Built-in thermal overload protection with automatic reset
- Operable in air stream temperatures up to 140°F
- Mounting bracket and hardware included
- 5-year factory warranty
- **FR is not a Radon Mitigation Fan**

### Versatility

Designed for multi-purpose use in small to medium supply and exhaust ventilation systems in residential and commercial buildings.

### Durability and Reliability

These fans feature a durable, leak-free design, operate quietly, and provide long-lasting performance and minimal maintenance.

### Easy Installation

Mounting brackets and hardware are included for straightforward installation, streamlining the setup process for contractors.

### Accessories

Choose from a variety of duct accessories to make installation straightforward and time-efficient: fast clamps, filter boxes, silencers, shut-off dampers, and grilles.

## Certifications



### HVI Certified

HVI certification is a voluntary third-party certification programme to verify performance of residential ventilation products, in accordance with HVI/ANSI consensus test standards. Visit the HVI-Certified Products Directory to learn more.



### UL Listed

This product is Listed by UL. UL has rigorously tested and confirmed that this product meets all of their stringent requirements. Search the UL Product iQ directory for more information about our listed products.

## Technical parameters

### Nominal data

|                                |         |     |
|--------------------------------|---------|-----|
| Voltage (nominal)              | 120     | V   |
| Frequency                      | 60      | Hz  |
| Phases                         | 1~      |     |
| Input power                    | 66      | W   |
| Input current                  | 0.59    | A   |
| Impeller speed                 | 2143    | rpm |
| Air flow                       | max 180 | cfm |
| Temperature of transported air | max 140 | °F  |

### Protection/Classification

|                        |      |  |
|------------------------|------|--|
| Enclosure class, motor | IP44 |  |
| Insulation class       | B    |  |

### Dimensions and weights

|                                  |      |     |
|----------------------------------|------|-----|
| Duct dimension; Circular, inlet  | 4    | in. |
| Duct dimension; Circular, inlet  | 4    | in. |
| Duct dimension; Circular, outlet | 4    | in. |
| Duct dimension; Circular, outlet | 102  | mm  |
| Weight                           | 2.54 | kg  |

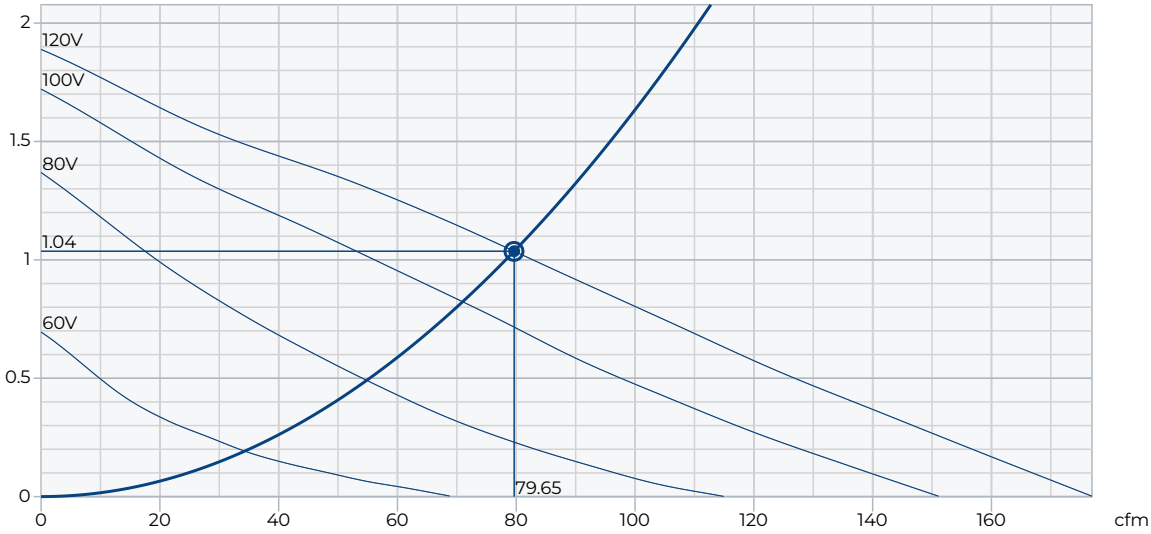
### Optional

|                      |          |  |
|----------------------|----------|--|
| Duct connection type | Circular |  |
| Motor type           | AC       |  |
| Material             | Plastic  |  |

## Performance

### Performance curve

in. wg.



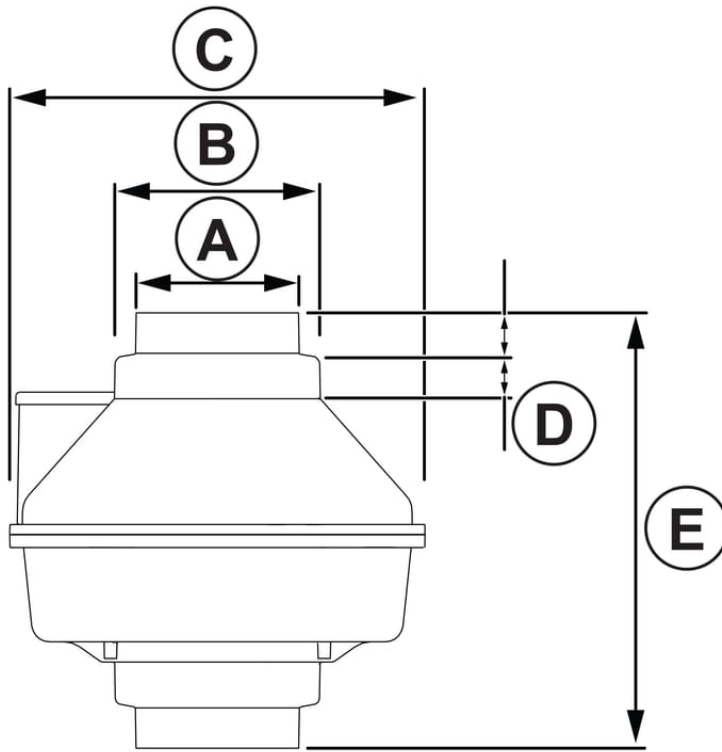
#### Performance data

|                          |                          |
|--------------------------|--------------------------|
| Required air flow        | 80 cfm                   |
| Required static pressure | 1.04 in. wg.             |
| Working air flow         | 80 cfm                   |
| Working static pressure  | 1.04 in. wg.             |
| Air density              | 0.075 lb/ft <sup>3</sup> |
| Power                    | 63 W                     |
| Fan control - RPM        | 2,831 rpm                |
| Current                  | 0.51 A                   |
| Airflow efficiency       | 1.3 cfm/W                |
| Supply voltage           | 120 V                    |

#### Sound power level

|        |       | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k | Total |
|--------|-------|----|-----|-----|-----|----|----|----|----|-------|
| Inlet  | dB(A) | 29 | 50  | 52  | 57  | 61 | 59 | 54 | 44 | 65    |
| Outlet | dB(A) | 29 | 52  | 59  | 55  | 60 | 59 | 54 | 45 | 65    |

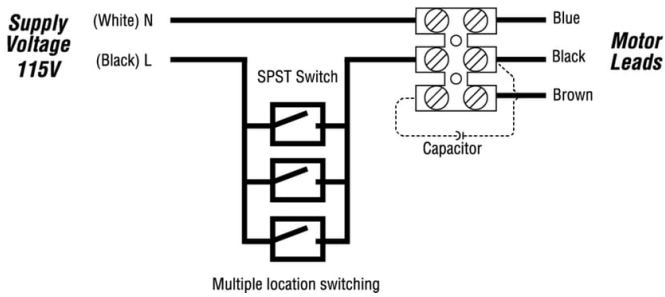
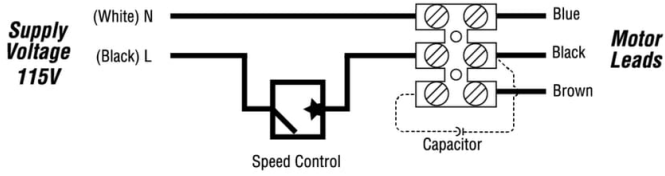
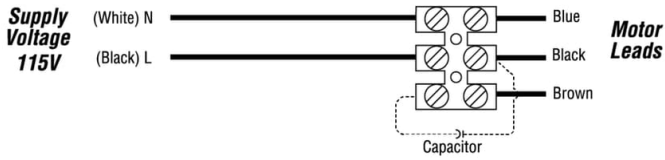
**Dimension**



| Model  | A               | B               | C        | D      | E             |
|--------|-----------------|-----------------|----------|--------|---------------|
| FR 100 | 3 31/32 (100.5) | 4 31/32 (126.5) | 10 (254) | 1 (25) | 10 9/16 (268) |
| FR 110 | 3 31/32 (100.5) | 4 31/32 (126.5) | 10 (254) | 1 (25) | 10 9/16 (268) |

Dimensions are in inches (mm)

**Wiring**



## AHU Accessories

- DHS 05 Humidity/Fan control (494044)
- HS 4W External Louver Exhaust (45151)
- IPF05 Speed control (484164)
- LD 4 Silencer (411282)
- RSK 4 Backdraft Damper (411112)
- FC 4 Mounting Clamps (2 pcs) (411295)
- IG 4 Inlet Guard (411301)
- IR 4 Iris Damper (411234)
- PT6 Attic Thermostat (494085)
- WC 15 Speed control (411102)

## Documents

- E2326 FG-FR-FKD BR EN pages
- FR\_CSL\_SPECIFICATION.ZIP
- 401444 FR OIPM EN FR ES
- 450371 FR Submittal Sheet EN

## CSI Specification

Please note that the CSI Specification has been moved under the Documentation Tab.