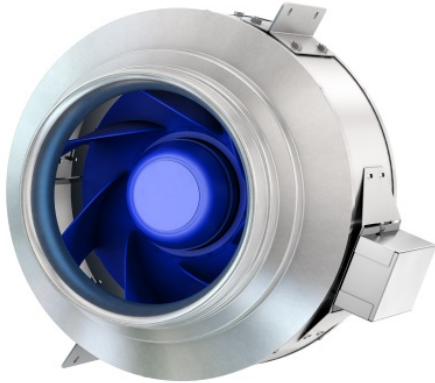


## FKD Inline duct fans

### Moderate to high airflow metal fans for various applications



- Mixed-flow impeller enabling high static pressure
- Built-in thermal overload protection with automatic reset
- Galvanized steel housing
- Operable in air stream temperatures up to 140°F
- Comes with mounting brackets for quick & easy installation
- Limited 5-year warranty

[Find more details in our online catalogue](#)

#### High Static Pressure

The mixed-flow impeller design enables the fan to overcome high static pressures, making it suitable for applications where airflow resistance is a concern.

#### Applications

Offices, hospitals, beauty salons, veterinary clinics, commercial bathrooms, and residential applications such as kitchen range hood exhausts.

#### Easy Installation and Reliability

The fan comes with fan brackets for quick and easy installation, streamlining the setup process for users.

#### Built-in Thermal Protection

Built-in thermal overload protection with automatic reset functionality prevents motor overheating and damage.

### Certifications



## Technical parameters

### Nominal data

|                                |         |    |
|--------------------------------|---------|----|
| Voltage (nominal)              | 230     | V  |
| Frequency                      | 60      | Hz |
| Phases                         | 1~      |    |
| Input power                    | 1,609   | W  |
| Input current                  | 6.44    | A  |
| Temperature of transported air | max 140 | °F |

### Protection/Classification

|                        |      |
|------------------------|------|
| Enclosure class, motor | IP54 |
| Insulation class       | F    |

### Dimensions and weights

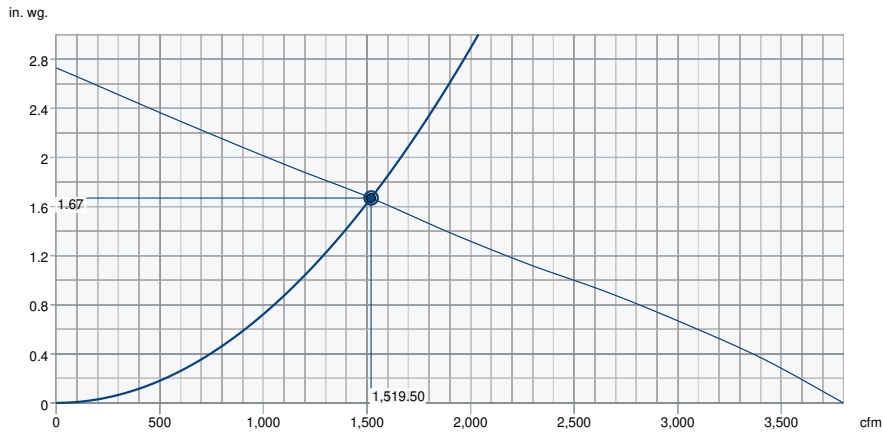
|                                  |      |     |
|----------------------------------|------|-----|
| Duct dimension; Circular, inlet  | 16   | in. |
| Duct dimension; Circular, inlet  | 16   | in. |
| Duct dimension; Circular, outlet | 16   | in. |
| Duct dimension; Circular, outlet | 406  | mm  |
| Weight                           | 75.1 | lb  |

### Optional

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

## Performance

### Performance curve



#### Hydraulic data

|                          |              |
|--------------------------|--------------|
| Required air flow        | 1,520 cfm    |
| Required static pressure | 1.67 in. wg. |
| Working air flow         | 1,519 cfm    |
| Working static pressure  | 1.67 in. wg. |
| Air density              | 0.075 lb/ft³ |
| Power                    | 1,337 W      |
| Fan control - RPM        | 1,672 rpm    |
| Current                  | 5.61 A       |
| Airflow efficiency       | 1.1 cfm/W    |
| Supply voltage           | 230 V        |

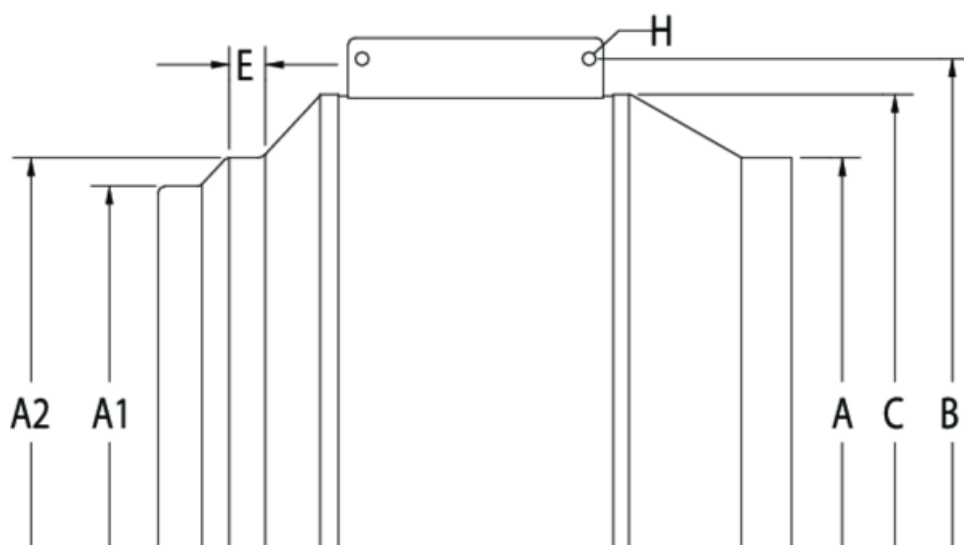
| Sound power level |       | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k | Total |
|-------------------|-------|----|-----|-----|-----|----|----|----|----|-------|
| Inlet             | dB(A) | 50 | 66  | 73  | 77  | 77 | 75 | 71 | 64 | 82    |

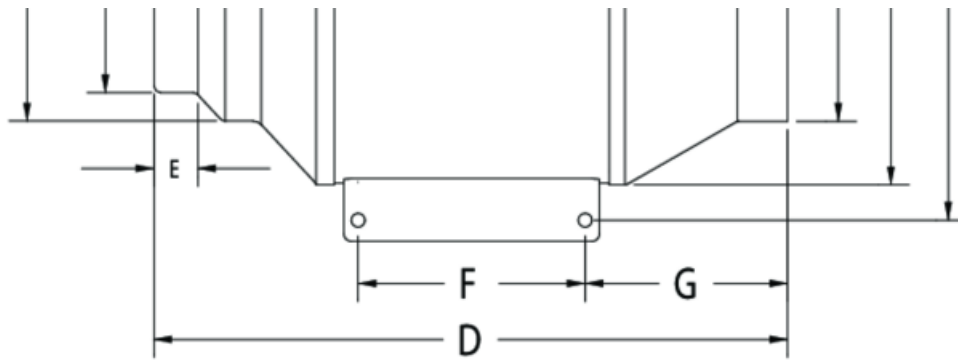
## Performances

**CFM Table**

| Model              | 0.0" Ps | 0.5" Ps | 0.75" Ps | 1.0" Ps | 1.5" Ps | 2.0" Ps |
|--------------------|---------|---------|----------|---------|---------|---------|
| FKD 8XL / KD 8XL   | 819     | 665     | 583      | 477     | 277     | 200     |
| FKD 10 / KD 10     | 910     | 752     | 653      | 547     | 342     | 142     |
| FKD 10XL / KD 10XL | 1266    | 1100    | 1006     | 911     | 696     | 460     |
| FKD 12 / KD 12     | 1305    | 1145    | 1054     | 948     | 712     | 479     |
| FKD 12XL / KD 12XL | 1863    | 1524    | 1325     | 1052    | 300     | -       |
| FKD 14 / KD 14     | 1979    | 1615    | 1390     | 1126    | 332     | -       |
| FKD 14XL / KD 14XL | 2406    | 1947    | 1706     | 1439    | 652     | 34      |
| FKD 16 / KD 16     | 2438    | 1958    | 1691     | 1401    | 712     | 56      |
| FKD 16XL / KD 16XL | 3740    | 3182    | 2857     | 2544    | 1801    | 1120    |
| FKD 18 / KD 18     | 3951    | 3382    | 3087     | 2752    | 2120    | 1256    |
| FKD 18XL / KD 18XL | 5463    | 5034    | 4806     | 4569    | 4061    | 3400    |
| FKD 20 / KD 20     | 5588    | 5151    | 4920     | 4673    | 4128    | 3492    |

## Dimensions

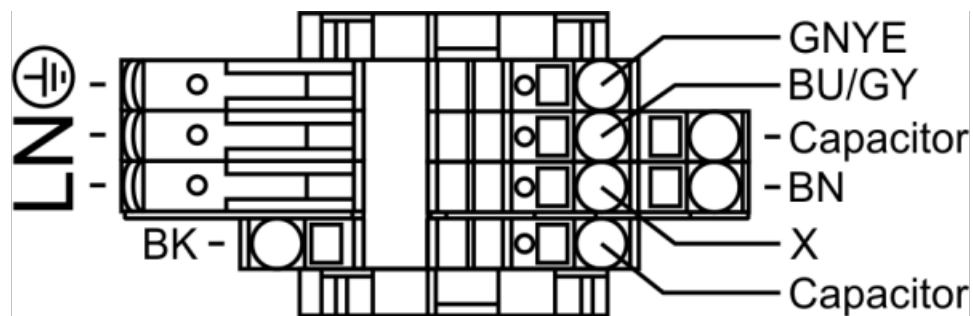




| Model              | A            | A1           | A2           | B            | C            | D            | E          | F           | G            | H        |
|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|-------------|--------------|----------|
| FKD 12XL / KD 12XL | 12 (305)     | 12 (305)     | 14 (356)     | 20 3/8 (518) | 17 7/8 (454) | 18 7/8 (479) | 1 3/8 (35) | 4 (102)     | 8 1/2 (216)  | 3/8 (10) |
| FKD 14 / KD 24     | 14 (356)     | 12 (305)     | 14 (356)     | 20 3/8 (518) | 17 1/4 (438) | 17 1/4 (438) | 1 1/4 (32) | 4 (102)     | 6 3/4 (171)  | 3/8 (10) |
| FKD 14XL / KD 14XL | 14 (356)     | 14 (356)     | 15 5/8 (397) | 22 3/8 (568) | 19 3/4 (502) | 20 1/4 (514) | 1 1/2 (38) | 4 (102)     | 8 3/4 (222)  | 3/8 (10) |
| FKD 16 / KD 16     | 15 5/8 (397) | 14 (356)     | 15 5/8 (397) | 22 3/8 (568) | 19 3/4 (502) | 18 3/4 (476) | 1 1/2 (38) | 4 (102)     | 7 1/8 (181)  | 3/8 (10) |
| FKD 16XL / KD 16XL | 15 5/8 (397) | 15 5/8 (397) | 17 5/8 (448) | 24 1/2 (622) | 22 1/8 (562) | 23 3/4 (603) | 1 1/4 (32) | 7 7/8 (200) | 8 1/2 (216)  | 1/2 (13) |
| FKD 18 / KD 18     | 17 5/8 (448) | 15 5/8 (397) | 17 5/8 (448) | 24 1/2 (622) | 22 1/8 (562) | 21 3/4 (552) | 1 1/4 (32) | 7 7/8 (200) | 7 (178)      | 1/2 (13) |
| FKD 18XL / KD 18XL | 17 5/8 (448) | 17 5/8 (448) | 19 5/8 (498) | 28 1/2 (724) | 26 (660)     | 27 1/4 (692) | 1 3/4 (44) | 7 7/8 (200) | 10 1/2 (267) | 1/2 (13) |
| FKD 20 / KD 20     | 19 5/8 (498) | 17 5/8 (448) | 19 5/8 (498) | 28 1/2 (724) | 26 (660)     | 27 1/4 (692) | 1 3/4 (44) | 7 7/8 (200) | 10 1/2 (267) | 1/2 (13) |

Dimensions are in inches (mm).

## Wiring



|                      |            |
|----------------------|------------|
| BU/GY - Blue or Grey | BN - Brown |
| GNYE - Green-Yellow  | BK - Black |

## Accessories

- IR 16 Iris Damper (411240)
- LD 16 Silencer (411288)

## Documents

- 498379 FKD-KD IOM EN FR ES.pdf
- 498381 FKD/KD Submittal Sheet EN
- FKD-KD\_CSI\_SPECIFICATION.ZIP