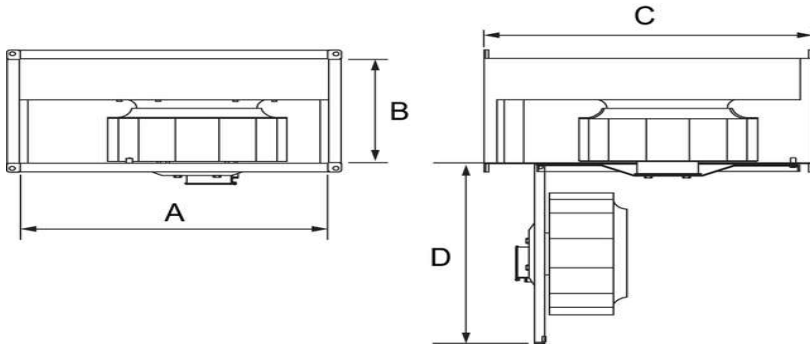


FRD Series

Inline Centrifugal Fan



Dimensional Table:

| Model | A | B | C | D |
|--------------|--------------|--------------|--------------|----------|
| FRD 12-6** | 11 7/8 (302) | 5 7/8 (149) | 15 3/4 (400) | 11 (279) |
| FRD 16-8** | 15 3/4 (400) | 7 3/4 (197) | 19 3/4 (502) | 15 (381) |
| FRD 16-8XL** | 15 3/4 (400) | 7 3/4 (197) | 19 3/4 (502) | 15 (381) |
| FRD 20-10** | 19 5/8 (498) | 9 3/4 (248) | 20 3/8 (518) | 18 (457) |
| FRD 24-14** | 23 5/8 (600) | 13 3/4 (349) | 28 1/2 (724) | 20 (508) |

Dimensions in inches (mm)

**Equivalent Dimensions for 120V and 230V models

| Model | Rated Power | Voltage/Phase | Max Amps | RPM | 0.0"Ps | 0.25"Ps | 0.5"Ps | 0.75"Ps | 1.0"Ps | 2.0"Ps | MAX Ps | Sones [†] | Item # |
|------------|-------------|---------------|-------------------|-------------------|--------|---------|--------|---------|--------|--------|--------|--------------------|--------|
| | W | V/~ | A | min ⁻¹ | cfm | | | | | | inwg | | |
| FRD 12-6 | 84 | 120/1 | 0.74 ¹ | 2550 | 309 | 262 | 214 | 171 | 133 | - | 2.01 | 8.0 | 40030 |
| FRD 16-8 | 150 | 120/1 | 1.30 ¹ | 2950 | 560 | 499 | 434 | 368 | 300 | 119 | 2.57 | 13.0 | 40031 |
| FRD 16-8XL | 264 | 120/1 | 2.32 ¹ | 2800 | 658 | 599 | 535 | 471 | 406 | 196 | 3.44 | 13.1 [‡] | 40032 |
| FRD 20-10 | 191 | 120/1 | 1.68 ¹ | 1650 | 1013 | 915 | 814 | 724 | 617 | - | 1.84 | 16.7 | 40033 |
| FRD 24-14 | 775 | 120/1 | 5.98 ² | 1600 | 2227 | 2097 | 1963 | 1802 | 1642 | 673 | 2.32 | 18.2 [‡] | 40115 |

Performance shown is for installation type D - Duct inlet, Ducted outlet. Speed (RPM) shown is nominal.

Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories).

The sound ratings shown are loudness values in fan sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301.

Values shown are for: Installation Type D: ducted inlet hemispherical sone levels. Ratings do not include the effect of duct end correction

[†]Sones are calculated at 0.5" (static pressure in inches W.G.)

[‡]Sones are calculated at 0.75" (static pressure in inches W.G.)

¹ Recommended speed control rating 5A. ² Recommended speed control rating 10A

| Model | Rated Power | Voltage/Phase | Max Amps | RPM | 0.0"Ps | 0.25"Ps | 0.5"Ps | 0.75"Ps | 1.0"Ps | 2.0"Ps | MAX Ps | Sones [†] | Item # |
|----------------|-------------|---------------|-------------------|-------------------|--------|---------|--------|---------|--------|--------|--------|--------------------|--------|
| | W | V/~ | A | min ⁻¹ | cfm | | | | | | inwg | | |
| FRD 12-6-230 | 80 | 230/1 | 0.35 ¹ | 2785 | 275 | 241 | 211 | 178 | 146 | - | 2.02 | 10.9 | 40449 |
| FRD 16-8-230 | 151 | 230/1 | 0.61 ¹ | 2875 | 581 | 529 | 472 | 407 | 338 | 132 | 2.65 | 14.7 | 40590 |
| FRD 16-8XL-230 | 197 | 230/1 | 0.91 ¹ | 3077 | 555 | 513 | 483 | 453 | 419 | 265 | 3.38 | 15.6 | 45307 |
| FRD 20-10-230 | 189 | 230/1 | 0.86 ¹ | 1666 | 966 | 845 | 722 | 612 | 473 | - | 1.64 | 16.0 | 44022 |
| FRD 24-14-230 | 738 | 230/1 | 3.45 ¹ | 1591 | 2145 | 2012 | 1851 | 1693 | 1523 | 572 | 2.44 | 20.6 | 44003 |

¹ Recommended speed control rating 5A.

Certifications:



Systemair Mfg. Inc. certifies that the FRD series shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.