

RF-12, RF-16, RF-20, RF-24

RF-12

RF-16

RF-20, RF-24

Air Driven Reaction Fans

Rugged, cast aluminum housing and fan blade make these fans ideal for hazardous locations and demanding ventilation projects. The RF design utilizes action-reaction principles. Compressed air is discharged through nozzles located at the tip of the fan blades providing extremely efficient, high volume, low maintenance air movers.

FEATURES:

RF-12, RF-16

- 2100 to 5100 cfm (3,566 to 8,665 m^3/hr) at 80 psig.
- Use for fresh air supply or fume exhaust.
- Low compressed air consumption.
- Spark resistant cast aluminum housing and fan blade.
- Virtually maintenance free.
- Permanently lubricated bearings eliminate line oiler.
- Cast in handles and feet.
- Cast in bead to accept 12” and 16” duct.
- Bolt holes allow attachment of optional face plates.

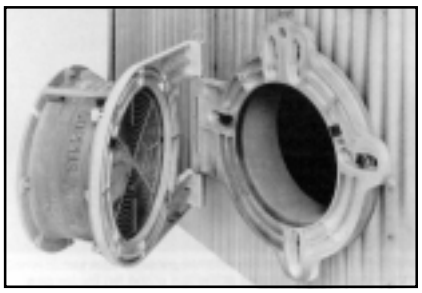
RF-12Q

- Attenuated nozzles added to reduce dBA level (see sound levels chart on inside back cover).

RF-20, RF-24

- 11,000 to 16,900 cfm (18,689 to 28,713 m^3/hr) at 80 psig.
- Use for fresh air supply or fume exhaust.
- Can be carried or rolled to job site.
- Spark resistant cast aluminum housing and fan blade.
- Permanently lubricated bearings.
- Flanges mate with 20” (508mm) and 24” (610mm) API tank opening.

SWING OUT ASSEMBLY



Personnel and equipment egress or entrance to tanks and vessels can be achieved quicker, easier and safer with the RF-20/24 and CP-20 Swing Out. Mounts to standard API 20” or 24” tank openings. Swing-out gate, constructed of cast aluminum, is held in closed position with industrial strength hook and loop fastener which can be easily opened and closed by pulling or pushing on Swing Out.

RF-12, RF-16 PERFORMANCE

Air flow through Flexible Duct at 80 psig (cfm/m³/hr)

Model	Duct Diam.	Straight Length of Duct				
		20' 6m	30' 9m	40' 12m	50' 15m	100' 31m
RF-12	12" 305mm	2020 3433	1960 3331	1910 3246	1870 3178	1680 2855
RF-12Q	12" 305MM	1350 2294	1315 2234	1275 2166	1235 2098	1110 1886
RF-16	16" 406mm	4850 8241	4750 8071	4600 7816	4550 7731	4150 7052

RF-12, RF-16 FREE AIR OPERATING DATA

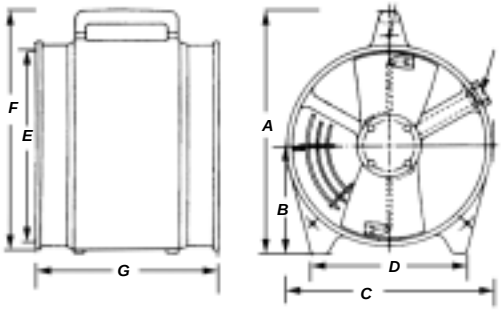
Air flow divided by consumed air = delivery ratio (efficiency)

Model	Inlet Pressure		Air Consumption		Total Air flow		Delivery Ratio
	psig	kg/cm²	scfm	m³/hr	scfm	m³/hr	
RF-12	80	5.6	61	104	2140	3636	35
RF-12Q	80	5.6	29	49	1440	2447	50
RF-16	80	5.6	144	246	5100	8665	35

RF-12, RF-16 DIMENSIONS (In./mm)

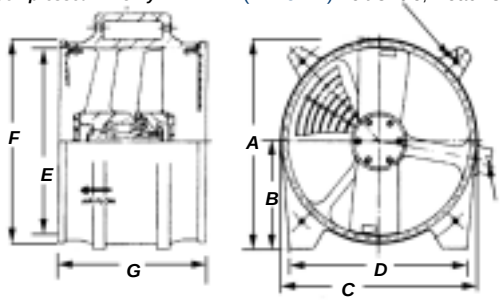
3/4" NPT Inlet
100 PSIG (7kg/cm)
Max. Compressed Air only.

7/16" (11mm) Holes on 13.5" center
(343 mm) Bolt Circle, 3 each side.



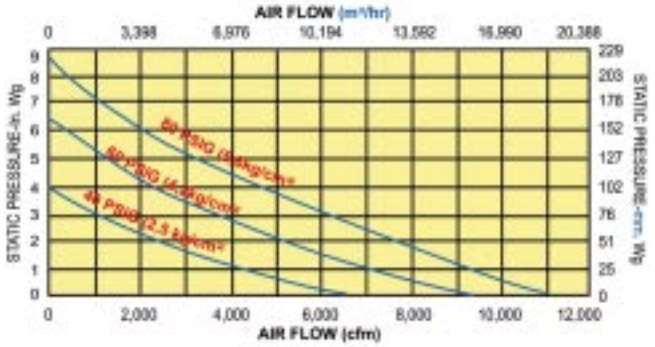
3/4" NPT Inlet
100 PSIG (7 kg/cm)
Max. Compressed Air Only

5/8" (16MM) Holes on 17.5" center
(444.5MM) Bolt Circle, 4 each side.

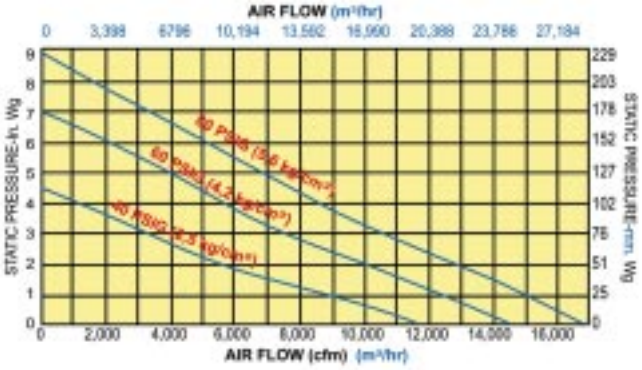


Model	A	B	C	D	E	F	G	Wt.
RF-12 RF-12Q	14.5 368	6.4 163	12.0 305	10.5 267	10.9 276	11.8 299	10.8 273	39lbs 18kg
RF-16	16.4 416	8.4 213	17.4 442	14.5 368	15.4 391	15.8 401	12.0 305	50lbs 23kg

RF-20 PERFORMANCE



RF-24 PERFORMANCE



RF-20, RF-24 FREE AIR OPERATING DATA

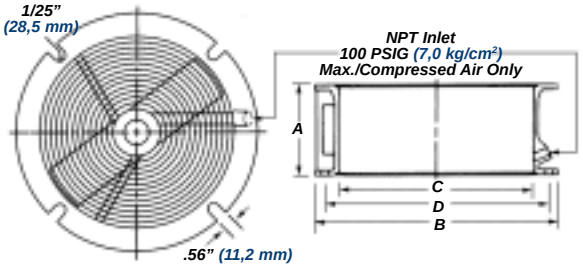
Air flow divided by consumed air = delivery ratio (efficiency)

Model	Inlet Pressure		Air Consumption		Total Air flow		Delivery Ratio
	psig	kg/cm²	scfm	m³/hr	scfm	m³/hr	
RF-20	60 80	2,8 5,6	125 210	212 357	7,000 11,000	11,893 18,689	59 53
RF-24	80 60	5.6 4,2	400 324	680 550	16,900 14,600	23,713 24,805	42 45

RF-20, RF-24 DIMENSIONS (In./mm)

1/25"
(28,5 mm)

NPT Inlet
100 PSIG (7,0 kg/cm²)
Max./Compressed Air Only



Model	A	B	C	D	E	Bolt Slots		Wt.
						Size	No.	
RF-20	10.2 260	24.7 629	19.5 495	22.5 572	3/4 19	1.12 29	4	69lbs 31kg
RF-24	11.6 294	31.2 794	24.0 610	30.2 768	1 25	1.12 29	4	160lbs 73kg