

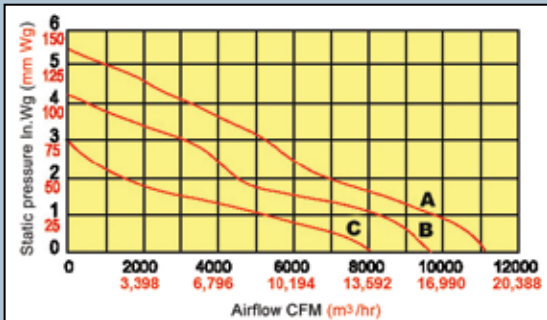


COPPUS

CP-20

Air- or steam turbine-driven blower/exhauster

MODEL/SPECIFICATIONS



- **A** = 80 psig (5, 6 kg/cm²) at large nozzle or 150 psig (10,6 kg/cm²) at small
- **B** = 60 psig (4, 2 kg/cm²) at large nozzle or 115 psig (8, 1 kg/cm²) at small
- **C** = 40 psig (2, 8 kg/cm²) at large nozzle or 80 psig (5, 6 kg/cm²) at small

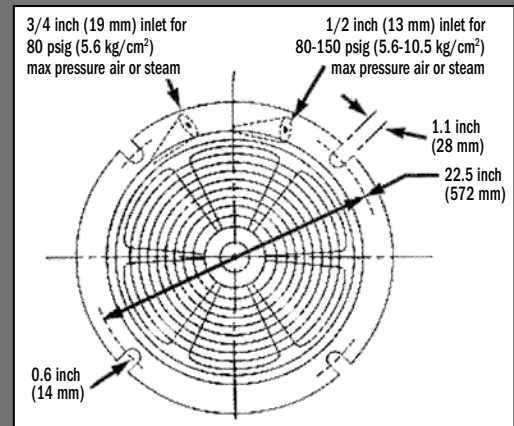
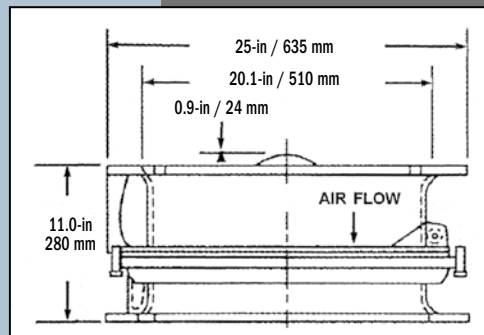
DESCRIPTION

This powerful fan is designed for fast and thorough degassing, ventilating or cooling of large process vessels such as columns, towers, reactors, scrubbers, furnaces, and storage tanks.

FEATURES / ADVANTAGES

- Delivers air flow up to 11,200 cfm (19,029 m³/hr)
- Can be used as blower or exhauster
- Fits 20 in (508 mm) API tank opening
- Cast aluminum housing and fan blade
- Stainless steel turbine buckets
- Separate stainless steel nozzles for high- or low-pressure operation
- Fan assembly shaft rotates on permanently sealed ball bearings
- Stationery expansion nozzles

DIMENSIONS



TECHNICAL DATA

AIR AND STEAM DRIVEN		
CP-20	80 psig	108 dBA
CP-20	60 psig	107 dBA
CP-20	40 psig	105 dBA

High-pressure inlet equals small nozzle
- 1/2 in NPT connection
Low-pressure inlet equals large nozzle
- 3/4 in NPT connection

STEAM AND AIR CONSUMPTION

STEAM/AIR PRESSURE psig kg/cm ²	STEAM CONSUMPTION lbs/hr / kg/hr		AIR CONSUMPTION scfm / m ³ /hr	
	SMALL NOZZLE	LARGE NOZZLE	SMALL NOZZLE	LARGE NOZZLE
150 10.6	640 209		220 178	
115 8.1	510 231		178 302	
80 5.6	380 172	740 336	128 217	250 425
60 4.2		590 268		194 330
40 2.8		440 200		142 241



RF-20

RF-24

MODEL/SPECIFICATIONS

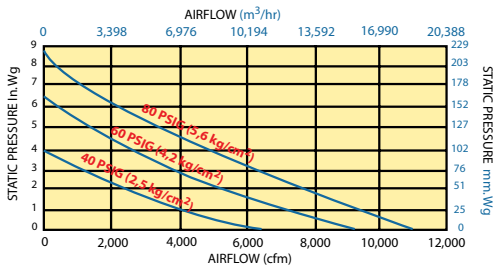


RF-12

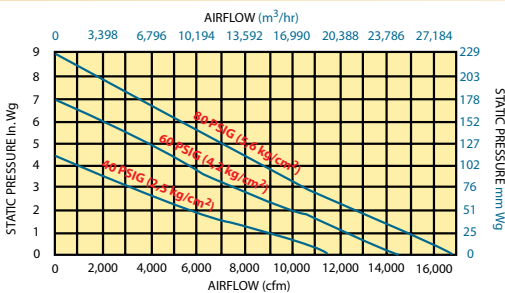


RF-16

RF-20 PERFORMANCE



RF-24 PERFORMANCE



Air-driven reaction fans

COPPUS REACTION FANS

(RF-12, RF-16, RF-20, RF-24)

DESCRIPTION

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

RF-20, RF-24 FEATURES / ADVANTAGES

- 11,000 to 16,900 cfm (18,689 to 28,713 m³/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 in (508 mm) and 24 in (610 mm) API tank openings

RF-12, RF-16 FEATURES / ADVANTAGES

- 2,100 to 5,100 cfm (3,566 to 8,665 m³/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 in (305 mm) and 16 in duct (406 mm)
- Bolt holes allow optional adapter plates attachment

SWING-OUT ASSEMBLY FOR RF-20/24 AND CP-20

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 models; mounts to standard API 20 in (508 mm) or 24 in (610 mm) tank openings.

Swing-out gate (constructed of cast aluminum) is held in closed position with industrial strength hook and loop fastener that can be opened and closed easily by pulling or pushing.



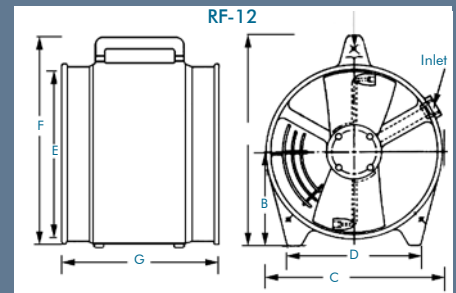
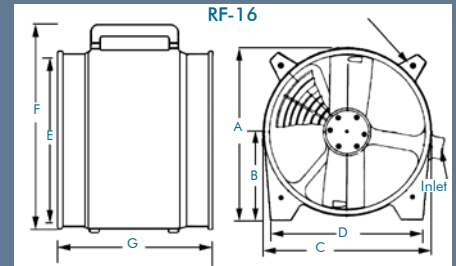
*Maximum operating pressure 100 psig (7 kg/cm²)

COPPUS REACTION FANS

(RF-12, RF-16, RF-20, RF-24)

TECHNICAL DATA

RF-12, RF-16 DIMENSIONS								
MODEL	in/mm							WT lbs/kgs
	A	B	C	D	E	F	G	
RF-12	14.5 368	6.4 163	12.0 305	10.5 267	10.9 276	11.8 299	10.8 273	39 18
RF-16	16.4 416	8.4 213	17.4 442	14.5 368	15.4 391	15.8 401	12.0 305	50 23



RF-12, RF-16 FREE AIR OPERATING DATA AIR FLOW DIVIDED BY CONSUMED AIR = DELIVERY RATION (EFFICIENCY)

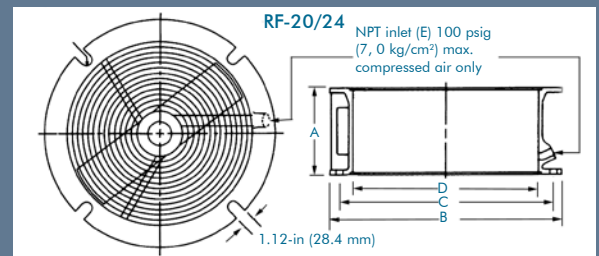
MODEL	INLET PRESSURE		AIR CONSUMPTION		TOTAL AIR FLOW		DELIVERY RATIO	INLET CONNECTION NPT
	psig	kg/cm ²	scfm	m ³ /hr	scfm	m ³ /hr		
RF-12	80	5.6	61	104	2,140	3,636	35	3/4 inch
RF-16	80	5.6	144	246	5,100	8,665	35	3/4 inch

RF-12, RF-16 PERFORMANCE SPECIFICATIONS AIR FLOW THROUGH FLEXIBLE DUCT AT 80 PSIG (cfm (m³/hr))

MODEL	DUCT Diameter	STRAIGHT LENGTH OF DUCT				
		20 ft/6 m	30 ft/9 m	40 ft/12 m	50 ft/15 m	100 ft/31 m
		inch/ mm	cfm/ m ³ /hr	cfm/ m ³ /hr	cfm/ m ³ /hr	cfm/ m ³ /hr
RF-12	12/305	2,020/3,433	1,960/3,331	1,910/3,246	1,870/3,178	1,680/2,855
RF-16	16/406	4,850/8,241	4,750/8,071	4,600/7,816	4,550/7,731	4,150/7,052

RF-20, RF-24 DIMENSIONS

MODEL	in/mm						BOLT SLOTS SIZE NO.	WT lbs/kgs
	A	B	C	D	E			
	RF-20	10.2 260	24.7 629	22.5 572	19.5 495	0.75 19	1.12 28.4	
RF-24	11.6 294	31.2 794	30.2 768	24.0 610	1 25	1.12 28.4	4	160 73



RF-20, RF-24 FREE AIR OPERATING DATA AIR FLOW DIVIDED BY CONSUMED AIR = DELIVERY RATION (EFFICIENCY)

MODEL	INLET PRESSURE		AIR CONSUMPTION		TOTAL AIR FLOW		DELIVERY RATIO	INLET CONNECTION NPT
	psig	kg/cm ²	scfm	m ³ /hr	scfm	m ³ /hr		
RF-20	60	4.2	160	271	7,000	11,893	59	3/4 in
	80	5.6	210	375	11,000	18,689	53	
RF-24	60	4.2	324	550	14,600	24,804	45	1 in
	80	5.6	400	680	16,900	28,713	42	

AIR-DRIVEN

ITEM	PSIG	dba
RF-12	80	104
RF-12	60	101
RF-16	80	109
RF-16	60	107
RF-20	80	108
RF-20	60	106
RF-24	80	111
RF-24	60	109

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