

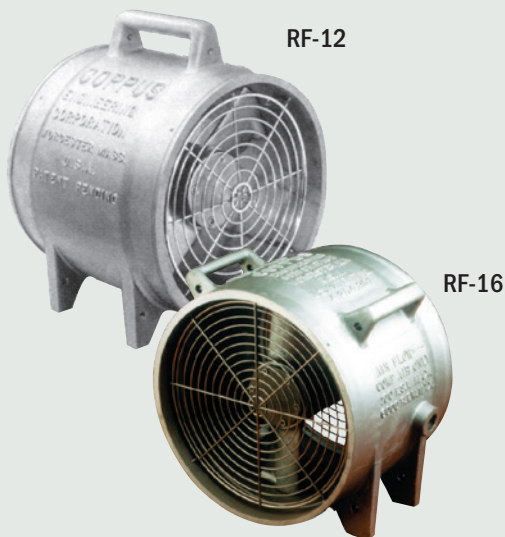
RF-24

# COPPUS Reaction Fans

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

Air-driven reaction fans

### MODEL/SPECIFICATIONS



RF-12

RF-16

### 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 m<sup>3</sup>/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 m<sup>3</sup>/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

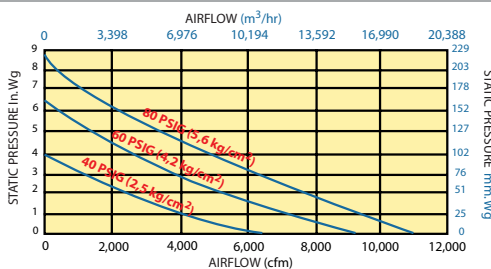
### SWING-OUT ASSEMBLY FOR RF-20/24 AND CP-20

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

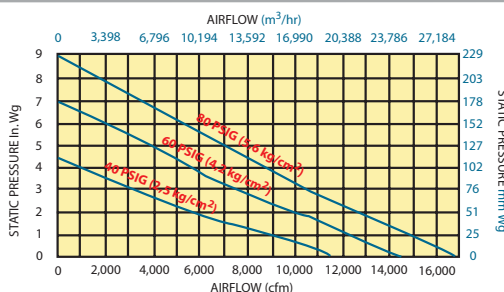


\*Maximum operating pressure 100 psig (7 kg/cm<sup>2</sup>)

### RF-20 PERFORMANCE

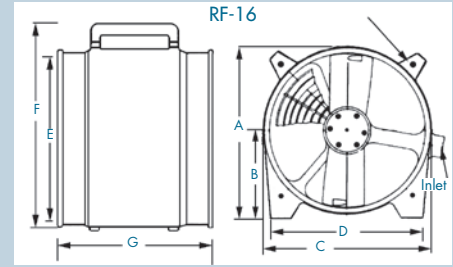


### RF-24 PERFORMANCE

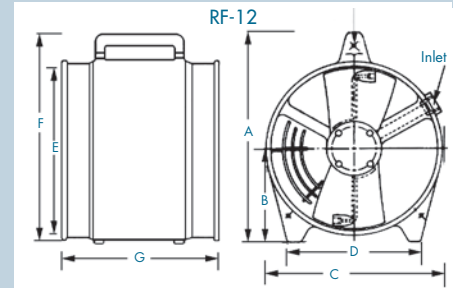


# TECHNICAL DATA

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

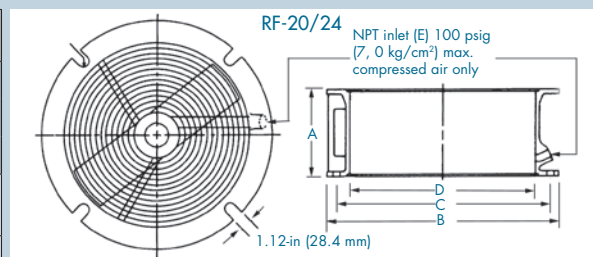


RF-12, RF-16 FREE AIR OPERATING DATA AIR FLOW DIVIDED BY CONSUMED AIR = DELIVERY RATION (EFFICIENCY)								
MODEL	INLET PRESSURE		AIR CONSUMPTION		TOTAL AIR FLOW		DELIVERY RATIO	INLET CONNECTION NPT
	psig	kg/cm <sup>2</sup>	scfm	m <sup>3</sup> /hr	scfm	m <sup>3</sup> /hr		
RF-12	80	5.6	61	104	2,140	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 (m <sup>3</sup> /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 <sup>3</sup> /hr	cfm/ m <sup>3</sup> /hr	cfm/ m <sup>3</sup> /hr	cfm/ m <sup>3</sup> /hr	cfm/ m <sup>3</sup> /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	4	69 31
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 <sup>2</sup>	scfm	m <sup>3</sup> /hr	scfm	m <sup>3</sup> /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