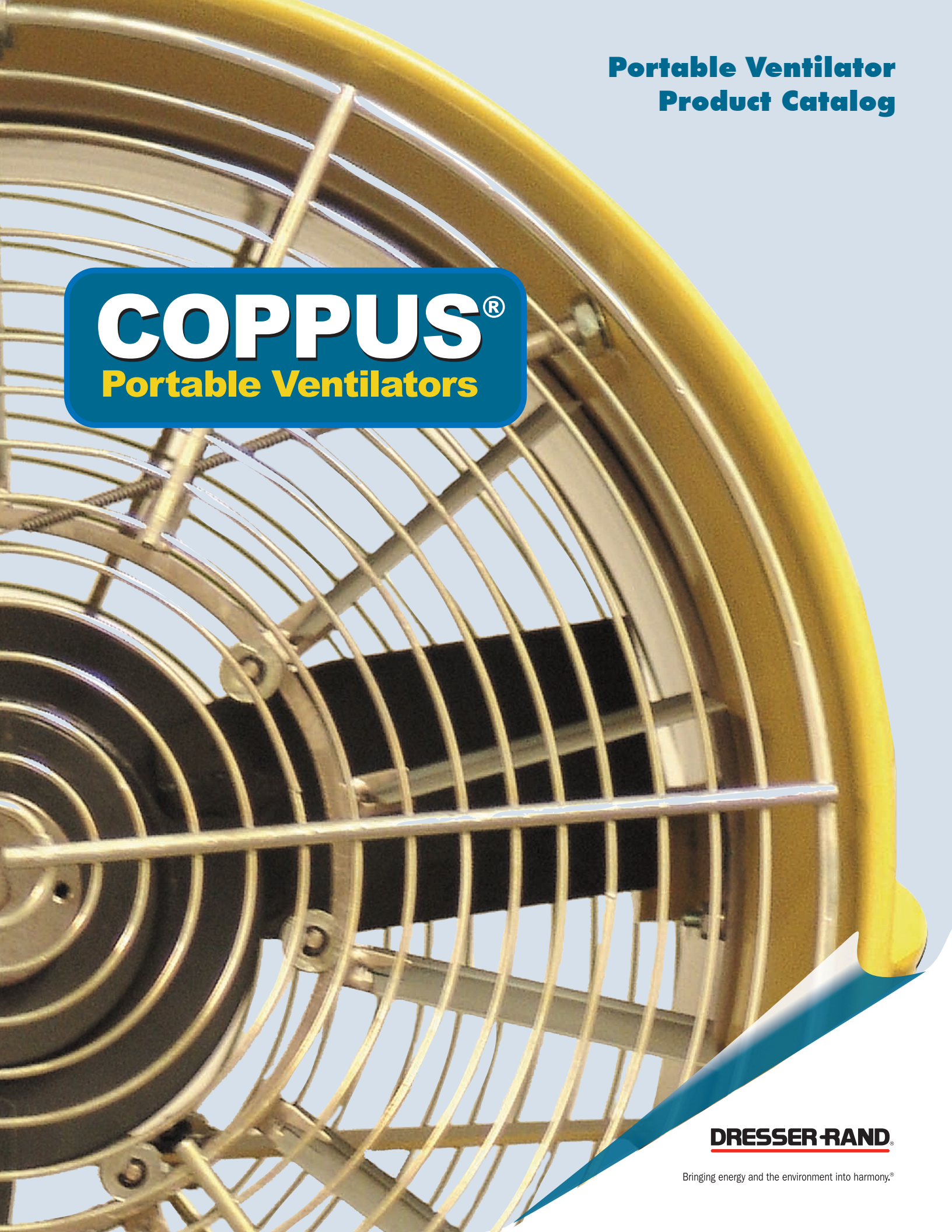
Portable Ventilator Product Catalog



DRESSER-RAND

Bringing energy and the environment into harmony.®

GENERAL APPLICATIONS

- **Confined space fresh air supply**
- **Fume removal (degassing)**
- **Process cooling**
- **Equipment cooling**
- **Source capture fume exhaust or filtration**
- **Personnel heat stress relief**
- **Air curing and drying of paints and coatings**

FEATURES / ADVANTAGES

- One-year warranty
- Large product selection to meet nearly any portable ventilation or cooling need
- Vaneaxial and centrifugal designs
- Choice of drives: electric, pneumatic, steam, or water
- Explosion-proof models
- Premium heavy-duty, continuous-operation motors
- Heavy-duty construction to meet industry demands
- Accommodates flexible duct
- Accessories

TECHNICAL ASSISTANCE

Our engineers are available during normal business hours (8 a.m. - 5 p.m. ET) to assist with equipment operation or application inquiries. Instruction manuals that include parts lists and engineering drawings are available as PDF documents. For a listing of available literature or to request a specific document please send us an email or use our customer service line.

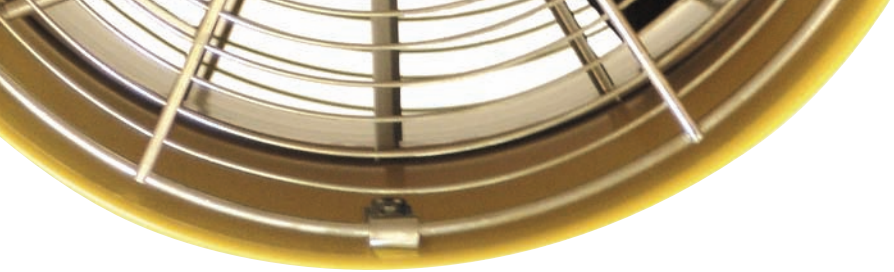
TRAINING

We offer free training in the operation of COPPUS equipment for confined space ventilation. (Please note that this is not a certified training program for confined space procedures.) For more information, contact your local representative or our customer service department.

PLACING YOUR ORDER

To ensure fast, accurate processing of your order, please use the following procedures. If you need assistance contact your local representative or our customer service department.

- **All orders must be in writing on a purchase order or on company letterhead with an authorized signature.**
- **Orders should be made out to: Dresser-Rand c/o your local representative.**
- **Include correct part number(s), model, description and pricing.**
- **For tax exempt orders, submit your current sales tax exemption certificate on file with the state to which the order is being shipped. All other orders will be taxed at the prevailing sales tax rate of the states to which they are shipped.**
- **We accept Visa, MasterCard and American Express.**



COPPUS® QUICK REFERENCE GUIDE

PRODUCT	MOTOR TYPE	FAN SIZE AND TYPE	AIR FLOWS cfm (m^3/hr)	FEATURES	PAGE
CADET	Electric or Gas TE* or EP**	8″ (203 mm) Vane-axial and Centrifugal	560-1,300 (933-2,209)	Lightweight and compact	5-6
VANO 175CV, 250CV	Electric TE and EP	8″ (203 mm) and 12″ (305 mm) Vaneaxial	1,500-3,000 (2,549-5,098)	Rugged, durable, low-profile design for high air volume	7-8
AIR MAX 12	Electric TE	12″ (305 mm) Vaneaxial	2,200 (3,735)	Lightweight, compact, high air volume	9
TA16-5000 TA16-5500	Electric TE and EP	16″ (406 mm) Tubeaxial	5,000-5,500 (8,495-9,345)	Heavy-duty, high volume for exhaust and fresh air	10
ACCESSORIES				Add convenience and improve production	17
AIR DUCT				Large selection of flexible duct and duct canisters	17
COLDFRONT INDUSTRIAL KIT	Electric	N/A	N/A	Turn any COPPUS fan into a “super cooler”	11
COLDFRONT COMPACT KIT	Electric	N/A	N/A	Heavy-duty compact pump designed for easy transport	12
VENTAIR	Electric TE and EP	8″ (203 mm) to 16″ (406 mm) Centrifugal	1,700-10,700 (2,885-18,179)	Five sizes up to 30 HP; supply air to multiple work areas	13
PORTAVENT	Electric TE and EP	5″ (127 mm) and 6″ (152 mm) Centrifugal	560-940 (951-1,597)	Ideal for removing welding fumes; multi-position stand	14
DOUBLE-DUTY HEAT KILLER	Electric TE and EP	18″ (457 mm), 24″ (610 mm) and 30″ (762 mm) Vaneaxial	4,100-17,000 (6,970-28,890)	Adjustable guide vanes for versatile air flow patterns	15-16
JECTAIR JECTAIR HORNET	Compressed Air	8″ (203 mm) to 14″ (356 mm) Venturi	1,370-8,900 (2,328-15,121)	High-air flows, lightweight, maintenance-free	21-22
RF-12, RF-16 (REACTION FANS)	Compressed Air	12″ (305 mm) and 16″ (406 mm) Axial	2,140-5,100 (3,636-8,665)	Ideal for hazardous locations; all aluminum-cast housing	19-20
RF-20, RF-24 (REACTION FANS)	Compressed Air	20″ (508 mm) and 24″ (610 mm) Axial	11,000-16,900 (18,689-28,700)	Bolts directly to tanks with standard API manways	19-20
CP-20	Steam or Air	20″ (508 mm) Axial	11,200 (19,029)	Bolts directly to standard API 20-inch manway	18
MARINE VENTILATORS	Steam, Air and Water	12″ (305 mm) and 15″ (381 mm) Axial	4,600-8,400 (7,815-14,275)	Cargo tank ventilators; mates to 12.5 inch (318 mm) deck opening	23
MARINE VENTURI	Compressed Air	Venturi	3,980-4,870 (6,762-8,274)	Lightweight; mates to 12-inch (305 mm) deck opening	24

*TE: Totally enclosed motor
**EP: Explosion-proof motor

FREQUENTLY ASKED QUESTIONS

ARE ALL COPPUS VENTILATORS UL LISTED?

All electrical components (motors, starters, switches, junction boxes, cord, plugs, etc.) are UL listed.

WHAT TYPE OF VENTILATOR DO YOU RECOMMEND FOR EXPLOSION-PROOF ENVIRONMENTS?

If compressed air is available as your utility, we recommend our RF series ventilators or our Jectair (venturi style) air movers. Pneumatic-drive ventilators are often desirable for hazardous locations. If electric drive is preferred or required, we offer most of our fans and ventilators in explosion-proof models. Explosion-proof units require all electrical connections to be enclosed, and moving mechanical pieces to be constructed of material so as not to create sparks. This requires special motors and starters, as well as fan blades and other moving parts to be made of non-sparking materials such as aluminum, stainless steel, fiberglass or plastic.

WHY ARE PLUGS NOT STANDARD ON EXPLOSION-PROOF UNITS?

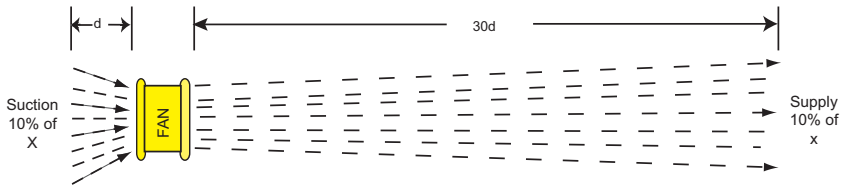
Local electrical codes can vary for hazardous location equipment operation, creating a variety of different plug-receptacle configurations. We recommend that either the plug be installed by a local electrician, or the type and part number of the correct plug be submitted to us in writing for factory installation to ensure local code compliance.

WHAT IS THE MAXIMUM HORSEPOWER I CAN USE WITH 115V POWER?

A 1.5 HP motor is the largest practical power unit to effectively run on single-phase power. A larger HP motor will generate very large current in-rushes, tripping the electrical protection breaker.

IS THERE A DIFFERENCE IN AIR VOLUME ON THE SUCTION AND DISCHARGE OF THE VENTILATOR?

No. The given air volume is the same whether the ventilator is used as an exhauster or blower. However, there is a significant difference in the *air velocity* at a given distance away from the fan. For example: one foot (305 mm) away from the suction end of a 12" (305 mm) fan, the air velocity will drop by 90 percent compared to only a three percent drop on the supply side.



Air velocity is reduced as the distance from the fan increases on both the inlet (exhaust) and outlet (delivery) sides. However the rate of reduction in air velocity is significantly greater on the inlet side of the fan.

d = diameter of the fan face
x = air velocity of the fan face

COMMON PORTABLE VENTILATION TERMS

CONFINED SPACE

Large enough area to be occupied by an individual, but with limited or restricted means for entry or exit; not normally designed for continuous occupancy.

CFM

Cubic feet per minute—measurement of flow handled by a fan.

STATIC PRESSURE

Usually expressed in inches water gauge (Wg); pressure measured in a direction normal to the air flow; static pressure combined with velocity pressure equals total pressure.

BLOCKED TIGHT STATIC PRESSURE

Operating condition in which the fan outlet is completely closed, resulting in no air flow.

FREE AIR DELIVERY

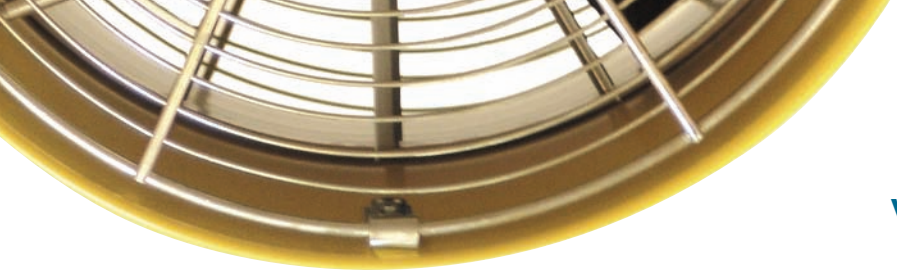
Maximum airflow where static pressure across the fan is zero.

CAPTURE VELOCITY

Air velocity at any point in front of the hood opening necessary to overcome opposing air currents and to capture the contaminated air at that point.

DECIBEL LEVELS

Sound data on COPPUS products are based on tests conducted with units operating at published speeds. No attachments for attenuating sound were used [dBA levels recorded at 5′ (1.5 m)].



COPPUS® CADET®

VANEAXIAL AND CENTRIFUGAL MODELS, ELECTRIC DRIVES

IDEAL FOR UTILITY UNDERGROUND AND LIGHT INDUSTRIAL CONFINED SPACE VENTILATION

These versatile, rugged, and economical ventilators deliver exceptional air flow in a compact, lightweight design—and their non-corrosive injection-molded housing is nearly indestructible. They are ideal for utility underground and light manufacturing confined space ventilation, and are available in a variety of models.

VANEAXIAL MODELS

- Flame-resistant injection-molded housing (5VA is the highest UL flame retardant rating possible)
- Glass-filled, polyester resin, spark-resistant fan blade
- Accommodates 8-inch (203 mm) flexible duct

MODEL VAC

MODEL VEP

Vaneaxial Hazardous Location Electric Drive

VANEAXIAL MODELS

MODEL	DRIVE	MOTOR	HP	WEIGHT		FREE AIR	
				lbs	kg	cfm	m³/hr
VAC1	Electric 115V/60Hz	TE	1/2	35	16	867	1465
VAC2	Electric 110V/50Hz	TE	1/2	35	16	804	1358
VAC3	Electric 230V/60Hz	TE	1/2	35	16	867	1465
VAC4	Electric 220V/50Hz	TE	1/2	35	16	804	1358
EV1	Electric 115V/60Hz	TE	1/4	27	12	1300	2197
VEP1	Electric 115V/60Hz	EP	1/2	40	19	867	1465
VEP2	Electric 110V/50Hz	EP	1/2	40	19	804	1358
VEP3	Electric 230V/60Hz	EP	1/2	40	19	867	1465
VEP4	Electric 220V/50Hz	EP	1/2	40	19	804	1358

PERFORMANCE THROUGH 90-DEGREE BEND(S)

1-90 Degree		2-90 Degree		3-90 Degree	
cfm	m³/hr	cfm	m³/hr	cfm	m³/hr
776	1318	766	1301	756	1284
730	1240	720	1223	710	1206
776	1318	776	1301	756	1465
730	1240	720	1223	710	1206
730	1240	659	1119	602	1023
776	1318	766	1301	756	1284
730	1240	720	1223	710	1206
776	1318	766	1301	756	1284
730	1240	720	1223	710	1206

ELECTRIC	
ITEM	dBA
VAC1	88
CAC1	78

CENTRIFUGAL MODELS

- Excellent air flow and pressure performance
- Flame-resistant UL94-5VA injection-molded housing
- Glass-filled, polyester resin spark-resistant fan blade
- Accommodates 8-inch (203 mm) duct at inlet and outlet ends
- Fan scroll can be positioned easily at 45-degree, 90-degree, and 180-degree discharge angles
- Available in electric and gasoline-driven models

MODEL CAC

• HAZARDOUS LOCATION MODELS

- Housing and components are constructed of special conductive polymers for safe dissipation of static charges
- Electric motors meet NEC Class 1, Division 1, Group D and Class II, Division I, Groups E, F, G specifications
- Available in vaneaxial and centrifugal models

MODEL CEP

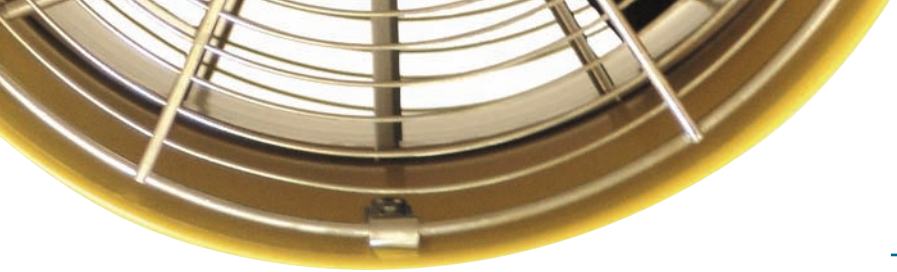
Hazardous Location

CENTRIFUGAL MODELS

MODEL	DRIVE	MOTOR	HP	WEIGHT		FREE AIR	
				lbs	kg	cfm	m^3/hr
CAC1	Electric 115V/60Hz	TE	1/2	35	16	1014	1722
CAC2	Electric 110V/50Hz	TE	1/2	35	16	845	1428
CAC3	Electric 230V/60Hz	TE	1/2	35	16	1014	1722
CAC4	Electric 220V/50Hz	TE	1/2	35	16	845	1428
CEP1	Electric 115V/60Hz	EP	1/2	35	16	1014	1722
CEP2	Electric 110V/50Hz	EP	1/2	35	16	845	1428
CEP3	Electric 230V/60Hz	EP	1/2	35	16	1014	1722
CEP4	Electric 220V/50Hz	EP	1/2	35	16	845	1428

PERFORMANCE THROUGH 90-DEGREE BEND(S)

1-90 Degree		2-90 Degree		3-90 Degree	
cfm	m^3/hr	cfm	m^3/hr	cfm	m^3/hr
860	1461	845	1436	830	1410
717	1218	704	1196	692	1176
860	1461	845	1436	830	1410
717	1218	704	1196	692	1176
860	1461	845	1436	830	1410
717	1218	704	1196	692	1176
860	1461	845	1436	830	1410
717	1218	704	1196	692	1176



COPPUS® VANO® 175CV, 250CV

RUGGED, RELIABLE, VENTILATOR MODELS

COPPUS ventilators revolutionized air moving equipment more than 60 years ago with the introduction of the VANO models. The VANO models offer a fixed guide vane design that delivers high volumes of air while maintaining static pressure for exhausting fumes and delivering fresh air. A rugged, durable, high-performance design makes the VANO models ideal for ventilating tanks, process vessels, tank cars, manholes and other confined spaces.

MODEL 175CV: 3/4 HP
1,500 cfm (2,549 m^3/hr)

MODEL 250CV: 1 HP
3,000 cfm (5,098 m^3/hr)

FEATURES

- Straightening fixed guide vanes for improved static pressure performance
- Accepts ducting at inlet and outlet ends
- Converts for exhausting fumes from bottom of tanks
- Available with totally enclosed (TE) or explosion-proof (EP) motors and compatible switch; all models supplied with 15′ (4.572 m) power cord
- Heavy-gauge, powder-coated steel and cast aluminum construction
- Spark-resistant fan blades
- Automatic reset thermal overload protection standard on VANO 175CV and 250CV models
- Optional tripod and transport cart

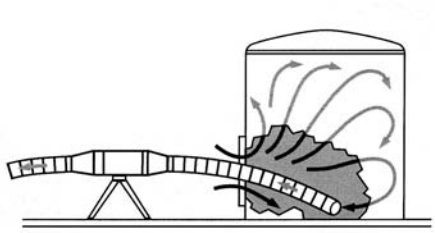
Optional tripod available.
See page 17.

CONVERTIBLE DESIGN

By simply removing the inlet sleeves, the VANO 175CV and 250CV convert to vertical exhaust units

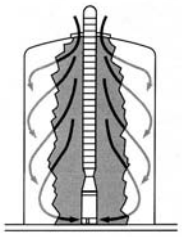
WITH INLET SLEEVE INSTALLED

The flexible duct can be attached to inlet and outlet ends. This allows fumes to be exhausted from a confined space, or fresh air delivered from a remote area.



WITH INLET SLEEVE REMOVED

Cut-outs on inlet end of CV models are exposed for exhausting heavier-than-air fumes from the bottoms of tanks, vats, drums and other confined spaces.



HAZARDOUS LOCATION MODELS

VANO models are available with hazardous location (EP)* motors that meet NEC Class I, Division I, Group D and Class II, Division I, Groups E, F, G specifications

*EP models do not include plugs

PERFORMANCE SPECIFICATIONS

AIR FLOW THROUGH FLEXIBLE DUCT - STRAIGHT RUNS [cfm (m^3/hr)]

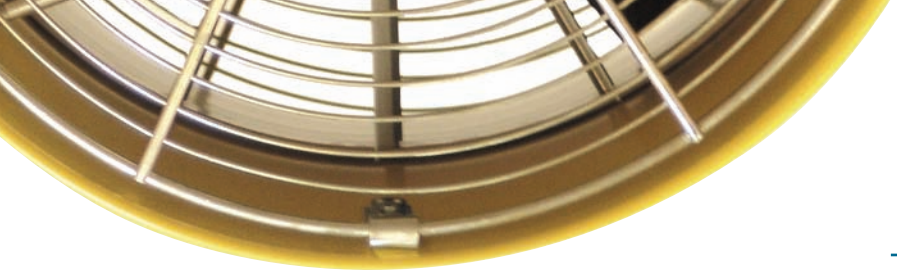
MODEL	10 foot (3.05 m)		20 foot (6.10 m)		30 foot (9.15 mm)		50 foot (15.25 m)	
	cfm	m^3/hr	cfm	m^3/hr	cfm	m^3/hr	cfm	m^3/hr
175CV	1,400	2,379	1,300	2,209	1,200	2,039	1,080	1,835
250CV	2,940	5,098	2,620	4,452	2,480	4,214	2,300	3,908

Performance schedule represents 60Hz synchronous speeds; 50Hz models perform at approximately 80 percent of listed schedules.

VARIOUS STATIC PRESSURES [cfm (m^3/hr)]

MODEL	FREE AIR		0.5 in WG 13 mm		0.75 in WG 19 mm		1.0 in WG 25 mm	
	cfm	m^3/hr	cfm	m^3/hr	cfm	m^3/hr	cfm	m^3/hr
175CV	1,500	2,549	1,350	2,294	1,280	2,175	1,230	2,095
250CV	3,000	5,098	2,620	4,452	2,480	4,214	2,300	3,908

ELECTRIC	
ITEM	dBA
VANO 175CV	90
VANO 250CV	92



COPPUS®
Air MAX-12

ECONOMICAL, HIGH-VOLUME TUBE AXIAL BLOWER

This 12" (305 mm), lightweight, rugged blower delivers up to 2,200 cfm (3,740 m³/hr) for confined space ventilation and fresh air supply.

FEATURES

- Rugged, all-steel housing construction
- Integral on/off motor switch
- Fixed guide vanes for improved performance
- Glass-reinforced, polypropylene, non-sparking fan blade
- 20' (6.1 m) cord with GFCI at plug end
- Anti-vibration foot pads

SPECIFICATIONS

MOTOR: TE 3/4 HP with integral on/off switch, 115V/6.8 amp, Class B insulation, auto reset thermal overload protection; attached 20' (6.1 m) heavy-duty cord with GFCI shut-off at plug end

FREE AIR: 2,200 cfm (3,740 m³/hr)

WEIGHT: 44 lbs (18.14 kg)

HOUSING: 18-gauge steel, powder-coated with carry handle and anti-vibration foot pads; rolled bead on ends for added strength and attaching flexible ducting; safety screens attached per OSHA guidelines

Please note: Not available for Class 1, Div. 1 (hazardous locations) applications

AIR FLOW THROUGH DUCT (STRAIGHT RUNS) cfm (m³/hr)

MODEL	FREE AIR		10 foot (3.05 m)		20 foot (6.10 m)		30 foot (9.15 m)	
	cfm	m³/hr	cfm	m³/hr	cfm	m³/hr	cfm	m³/hr
Air MAX	2,200	3,740	2,120	3,602	2,025	3,440	1,890	3,211

ELECTRIC	
ITEM	dBA
AirMax 12	74

COPPUS® TA16

DELIVERS LARGE VOLUME WITH HIGH-STATIC PRESSURE CAPABILITIES

The unique fan blade design not only allows exceptionally high air volume but also maximizes static pressure for better performance through longer runs of air duct. Typical ventilation applications include large tanks, tunnels, towers, and shipboard compartments; this fan also is ideal for product and process cooling.

TA16 with optional locking casters.

FEATURES

- TE or EP motor
- Thermal overload protection
- Powder-coated, heavy-gauge steel housing
- Cast-aluminum or glass-filled fan blade provides spark-resistance
- Skid-mounted for stability (optional casters available)
- Duct can be connected at inlet and outlet ends
- Optional caster kit available

MODEL TA16-5500

2-HP, 5,500 cfm (9,345 m^3/hr) free air

MODEL TA16-5000

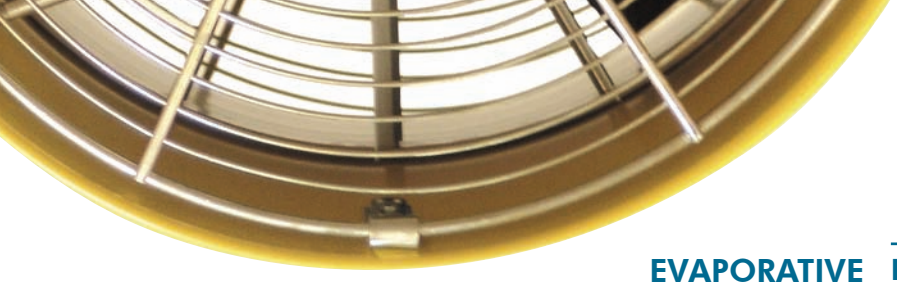
1 1/2-HP, 5,000 cfm (8,495 m^3/hr) free air

ELECTRIC	
ITEM	dBA
TA16	96

PERFORMANCE SPECIFICATIONS

AIR FLOW THROUGH FLEXIBLE-DUCT-STRAIGHT RUNS cfm (m^3/hr)

MODEL	10 foot (3.05 m)		50 foot (15.25 m)		100 foot (30.5 m)	
	cfm	m^3/hr	cfm	m^3/hr	cfm	m^3/hr
TA16-5500 2 HP	5,320	9,039	4,775	8,113	4,250	7,721
TA16-5000 1 1/2 HP	4,835	8,215	4,340	7,379	3,875	6,585



COPPUS®
COLD*FRONT*

EVAPORATIVE COOLING SYSTEM

Evaporative cooling has been recognized for years as an economical and efficient way to reduce ambient temperatures in high-heat environments. Dresser-Rand has harnessed the power of evaporative cooling with its industrial COPPUS COLD*FRONT* cooling system and compact COLD*FRONT* kits.

INDUSTRIAL COLD*FRONT*

Transforms high-velocity COPPUS fans into "super coolers" capable of reducing high ambient temperatures 10-25° Fahrenheit—depending on the relative humidity range.

FEATURES

- Heavy-gauge, powder-coated steel enclosure
- 10" (254 mm) pneumatic wheels and front-locking caster for easy mobility
- High-pressure, quick-connect hose
- Heavy-duty, 1,200 PSI triplex bronze pump accommodates up to six misting rings
- 5-micron water filter
- Kit includes: 25' (7.62 m) high-pressure hose, 20" (508 mm) or 16" (406 mm) stainless steel misting ring with six replaceable .008 misting nozzles

EVAPORATIVE COOLING WITH A COPPUS COLD*FRONT* SYSTEM IS IDEAL FOR:

- Equipment and process cooling in high-heat applications
- Setting up indoor or outdoor "cool-down" stations
- Dust and odor suppression
- Adding moisture in dry manufacturing environments to improve the process and reduce potentially hazardous static electrical charges

COMPACT COLD*FRONT* KIT

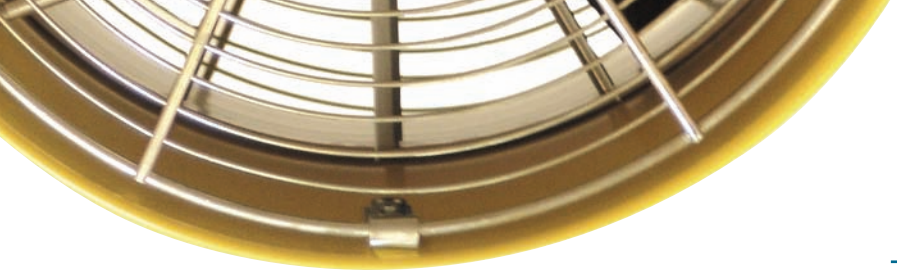
The COLD***FRONT*** compact kit consists of a pump motor assembly, filter, power cord with GFCI plug, 25′ (7.62 m) high-pressure hose, and 20″ (508 mm) or 16″ (406 mm) stainless steel misting ring with six high-pressure misting nozzles attached.

FEATURES

- Powerful triplex pump accommodates up to six misting rings
- Quick and easy installation
- High-impact plastic case protects pump, pump motor and filter
- Can reduce ambient temperatures by 10-25° Fahrenheit, depending on relative humidity

COLD*FRONT* SPECIFICATIONS

PUMP	INDUSTRIAL	COMPACT
Pressure Range	500-1200 psi	500-1200 psi
Type	Tri-Plex plunger	Tri-Plex plunger
GPM (Max)	.122 GPM	.122 GPM
Motor HP/AMPS	1 HP/12.8 AMPS	1 HP/12.8 AMPS
Output Ports	1-quick connect	2-quick connect
Enclosure	Powder-coated steel	High-impact plastic case
Water Use/Ring	7.32 g/hr @ 700 psi	7.32 g/hr @ 700 psi
Water Filter	5 micron	5 micron
Misting Ring	Stainless steel tubing with six replaceable .008 brass nozzles; available in 16-inch (406 mm) and 20-inch (508 mm) diameters	



COPPUS® VENTAIR® TM

HIGH-PRESSURE CENTRIFUGAL BLOWER/ EXHAUSTER

This is a rugged, high-volume, high-pressure centrifugal fan. Backwardly inclined fan blades yield stable air flow through small diameter or long runs of duct. The high static pressure capabilities make this an ideal air mover for supplying fresh air or source-capturing welding and other fumes for multiple remote locations with optional, multiple inlet adapter.

FEATURES

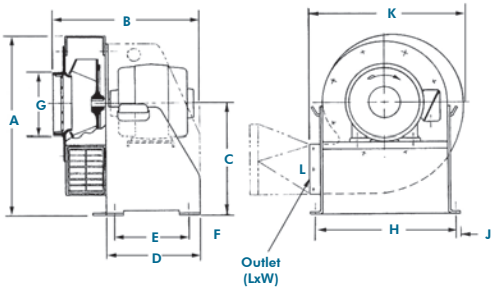
- Available in 1-, 2-, 5-, 15-, and 30-HP motors producing up to 10,700 cfm (18,179 m^3/hr)
- One-piece, cast aluminum, spark-resistant, abrasion-resistant, dynamically balanced fan wheel
- Heavy-gauge steel housing and base protects fan and motor
- Backward curved airfoil-shaped blades provide non-overloading power characteristics allowing peak performance through long runs of duct
- TE and EP motors available
- 3500 rpm motor directly connected to the fan wheel

ELECTRICAL SPECIFICATIONS

- Ventair models available with TE or hazardous location EP motors
- EP motors meet NEC Class I, Division I, Group D and Class II, Division I, Groups F, G

OPTIONS AND ACCESSORIES

- Motor starters
- Beaded or flanged diffusers
- Flexible duct
- Multiple inlet duct adapter
- Forklift adapter
- Vibration isolators



VENTAIR TM shown with optional four-inch (101.6 mm), multiple inlet duct adapter

DIMENSIONS - inches (mm) (weight: lb/kg)

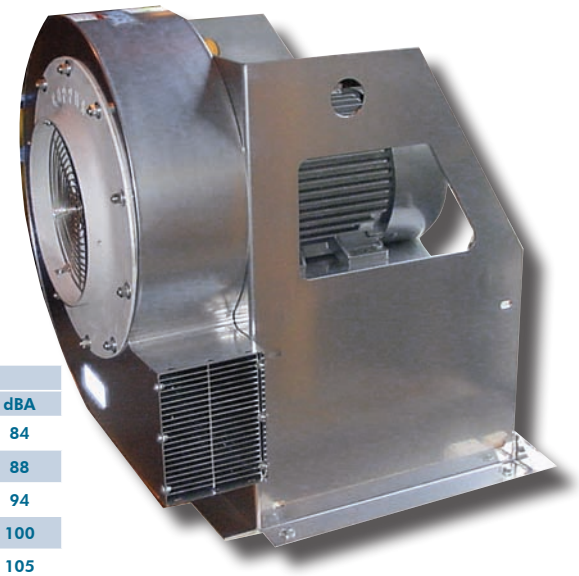
MODEL	A	B	C	D	E	F	G	H	J	K	L (Outlet)	Wgt.
TM-4	22.5 (572)	18.8 (478)	14.0 (356)	12.0 (305)	8.0 (203)	2.0 (51)	8.0 (203)	16.5 (419)	1.0 (25)	19.0 (483)	7.4 x 5.5 (188 x 10)	110 (50)
TM-5	26.2 (665)	23.6 (599)	16.5 (419)	15.0 (381)	11.7 (298)	1.5 (38)	10.0 (254)	19.5 (495)	1.0 (25)	22.0 (559)	8.7 x 6.6 (221 x 168)	130 (59)
TM-6	28.8 (732)	24.9 (632)	17.5 (445)	15.5 (394)	12.2 (311)	1.5 (38)	12.0 (305)	22.5 (572)	1.0 (25)	25.2 (651)	9.6 x 7.4 (244 x 234)	205 (93)
TM-8	35.6 (904)	32.6 (828)	22.0 (559)	21.0 (533)	16.0 (406)	2.0 (51)	14.0 (356)	28.8 (734)	1.5 (38)	30.0 (762)	11.5 x 9.2 (292 x 234)	550 (250)
TM-9	42.0 (1067)	38.5 (978)	26.0 (660)	27.0 (686)	22.7 (578)	2.0 (51)	16.0 (406)	31.5 (800)	1.5 (38)	34.2 (870)	11.5 x 9.2 (292 x 234)	670 (250)

PERFORMANCE SPECIFICATIONS

AIR DELIVERY AT 3,500 rpm [cfm (m^3/hr)]

MODEL	HP	FREE AIR	STATIC PRESSURES in WG (mm) to 24" WG max			
			1 in (25 mm)	2 in (51 mm)	3 in (76 mm)	Block Tight
TM-4	1	1,700 (2,887)	1,560 (2,604)	1,400 (2,379)	1,230 (2,090)	6.0 (152)
TM-5	2	2,500 (4,248)	2,300 (3,908)	2,100 (3,568)	1,900 (3,228)	8.2 (208)
TM-6	5	4,100 (6,966)	3,930 (6,677)	3,740 (6,354)	3,560 (6,048)	12.7 (323)
TM-8	15	7,450 (12,658)	7,250 (12,318)	7,000 (11,893)	6,800 (11,553)	18.6 (472)
TM-9	30	10,700 (18,179)	10,400 (17,674)	10,100 (17,165)	9,800 (16,665)	24.2 (615)

ELECTRIC	
ITEM	dBA
TM4	84
TM5	88
TM6	94
TM8	100
TM9	105



COPPUS®
PORTAVENT®

VERSATILE CENTRIFUGAL VENTILATOR FOR SOURCE CAPTURE FUME EXHAUST

The design, performance and versatility of the PORTAVENT centrifugal ventilator make it ideal for a wide range of industrial applications—welding and other fume removal; small tank purging; equipment cooling; confined space ventilation; and other maintenance and safety applications.

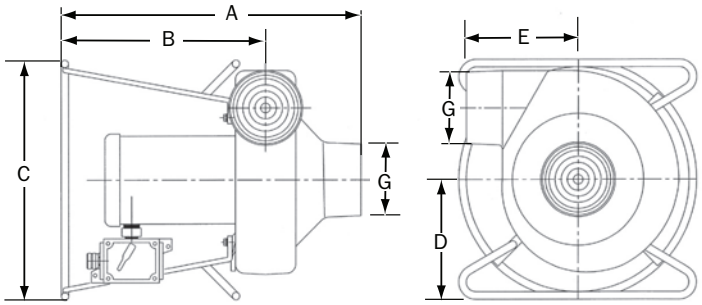
FEATURES

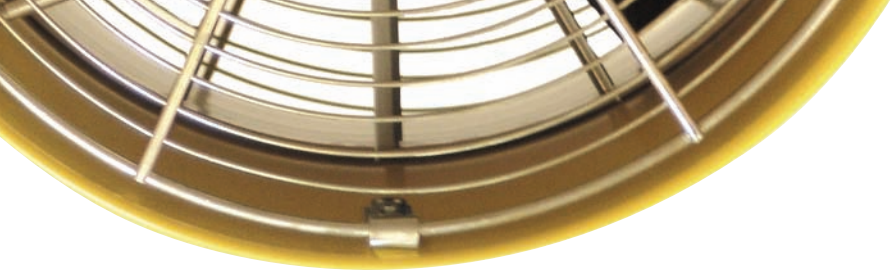
- Available in three models offering 560 to 940 cfm (951 to 1597 m^3/hr)
- Direct-drive 3,500 RPM fan motor
- Cast aluminum fan and housing provide spark-resistant construction
- Unique, multi-position stand offers a variety of convenient set-ups
- Accepts flexible duct at inlet and outlet ends
- Backwardly inclined airfoil blades prevent motor overloads
- Inlet and outlet screens meet OSHA standards
- TE and EP motors available on all models

DIMENSIONS - inches (mm)

MODEL	A in (mm)	B in (mm)	C in (mm)	D in (mm)	E in (mm)	F in (mm)	G in (mm)	Weight lbs (kg)		Free Air Delivery cfm (m^3/hr)
								TE	EP	
PV-500	22.4 (569)	14.8 (376)	19.0 (483)	9.5 (241)	8.4 (213)	5.4 (137)	4.9 (124)	57 (26)	60 (27)	560 (952)
PV-750	22.9 (582)	15.6 (396)	19.0 (483)	9.5 (241)	9.3 (236)	5.9 (150)	5.9 (150)	69 (31)	72 (32)	815 (1385)
PV-1000	22.9 (582)	15.6 (396)	19.0 (483)	9.5 (241)	9.3 (236)	5.9 (150)	5.9 (150)	70 (32)	73 (33)	940 (1597)

ELECTRIC	
ITEM	dBA
PV500	84
PV750	87
PV1000	90





COPPUS® DOUBLE-DUTY™ HEAT KILLER

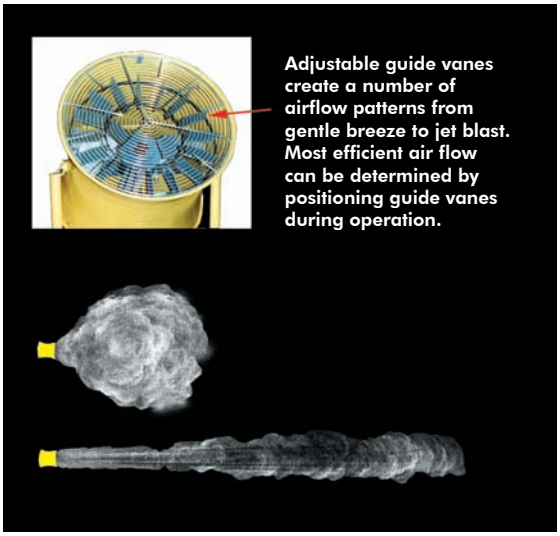
POWERFUL INDUSTRIAL FAN FOR COOLING PRODUCTS, PROCESSES AND PERSONNEL

With airflows up to 17,000 cfm (28,890 m³/hr) the Double-Duty™ Heat Killer (DDHK) is one of the most powerful and versatile portable air movers on the market today. The patented, adjustable guide vane design allows air flow control—from a gentle breeze for personnel cooling, to a concentrated jet blast for product and process cooling.

FEATURES

- Adjustable guide vanes allow varied air movement from a gentle breeze to a jet blast
- Available in 18" (457mm), 24" (610mm) and 30" (762 mm) models
- 24" (610 mm) models available with two-speed, totally enclosed motor (115V only)
- Models available in floor stand or wall mount models
- Heavy-duty, rugged steel housing and frame
- Protective screens meet OSHA guidelines
- Available with TE and EP motors
- Hazardous location switches and motors meet NEC Class I, Division I, Group D and Class II, Division I, Groups F and G specifications
- Thermal overload protection on motors

Please note: EP plugs sold separately to meet local codes

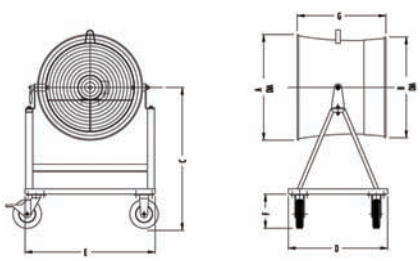


PERFORMANCE SPECIFICATIONS

MODEL	FAN SIZE		MOTOR		AIR VOLUME	
	in	mm	HP	rpm	cfm	m³/hr
18K03D	18	457	1/3	1,750	4,100	6,970
24K07D	24	610	3/4	1,750	7,100	12,060
24K10D	24	610	1	1,750	9,500	16,140
30K30D	30	762	3	1,750	17,000	28,890

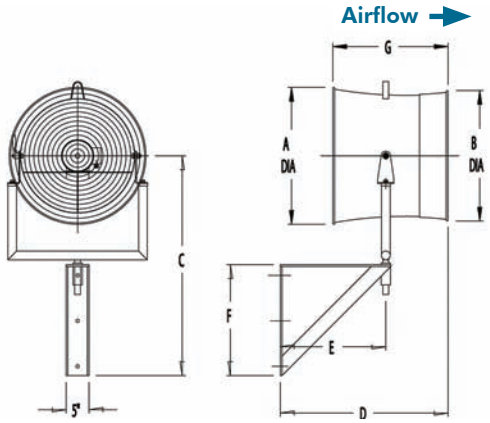
FLOOR STAND DIMENSIONS - inches (mm)

FAN SIZE	A	B	C	D	E	F	G	NET Wt. lbs (kg)
18 in (457 mm)	23.0 (584)	21.3 (541)	36.5 (927)	24.0 (610)	24.3 (617)	7.5 (190)	21.3 (540)	140 (59)
24 in (610 mm)	29.6 (752)	28.3 (719)	39.5 (1003)	28.0 (711)	36.5 (927)	9.5 (241)	25.0 (635)	180 (82)
30 in (762 mm)	36.8 (935)	33.4 (848)	39.5 (1003)	28.0 (711)	36.5 (927)	9.5 (241)	28.0 (711)	230 (104)



WALL MOUNT DIMENSIONS - inches (mm)

FAN SIZE	A	B	C	D	E	F	G
18 in (457 mm)	23.0 (584)	21.3 (541)	39.3 (998)	29.2 (742)	18.7 (475)	20.0 (508)	21.3 (540)
24 in (610 mm)	29.6 (752)	28.3 (719)	47.6 (1208)	36.4 (925)	22.9 (582)	24.0 (610)	25.0 (635)
30 in (762 mm)	36.8 (935)	33.4 (848)	52.7 (1338)	39.6 (1006)	25.1 (638)	26.1 (664)	28.0 (711)



DDHK WALL MOUNT KIT

Easy retrofit wall mount kits are available for existing floor stand models; kits include wall bracket and fan U-bracket.

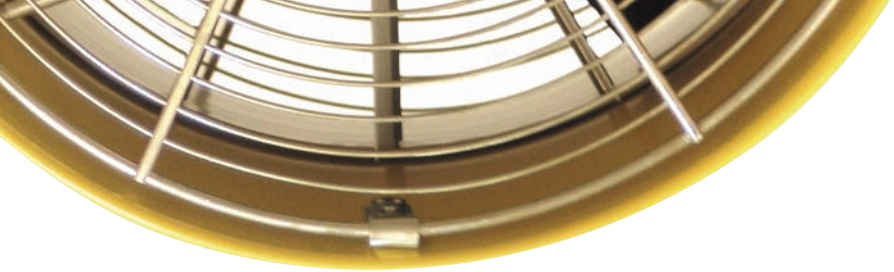
- Frees up valuable floor space
- Ensures permanent location
- Design permits 360-degree rotation with a total tilt up or down of 155-degrees (90-degrees down, 65-degrees up)

Electric	
ITEM	dBA
18K03D	72
24K07D	79
24K10D	85
30K30D	92

AIR VELOCITIES: fpm (m/min) at various distances from fan

MODEL	10-ft (3 m)		30-ft (9 m)		50-ft (15 m)		70-ft (21 m)		90-ft (27 m)
	JB*	DF*	JB	DF	JB	DF	JB	DF	JB
18K03D	1100 (335)	425 (130)	450 (137)	260 (79)	350 (107)	180 (55)	275 (84)	135 (41)	--
24K10D	1675 (508)	670 (203)	840 (255)	375 (114)	560 (170)	280 (85)	350 (106)	230 (70)	185 (56)
30K30D	2250 (686)	1280 (390)	1000 (304)	520 (159)	900 (274)	340 (104)	700 (213)	310 (95)	475 (145)

*Jet Blast (JB) Diffused Flow (DF)



COPPUS® ACCESSORIES

FEATURES AND SPECIFICATIONS (ALL VARIETIES)

- Wire supported, non-collapsible
- Quick and easy cinch belt securely fastens duct to blower housings and duct ends
- Integral rigid duct end allows easy coupling of duct without the need for separate splicer accessory
- Available diameters are 8″ (203 mm), 12″ (304.8 mm), 16″ (406 mm), 20″ (508 mm), and 24″ (610 mm); larger diameters available on request
- Available lengths: 10′ (3 m) and 2′ (7.5 m); duct can be coupled together for longer runs
- Temperature range: -40° F (-40 degrees C) to +250° F (+121° C)
- Meets UL-94 specifications for flame retardant material
- Retractable for easier, safer storage
- Source capture duct: close-pitched, wire-supported, features smooth interior walls for reduced flow restriction; available in 4″ (102 mm), 5″ (127 mm) and 6″ (152 mm) diameters

FLEXIBLE AIR DUCT

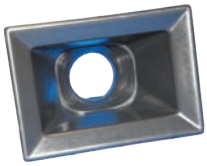
A large selection of flexible air duct for a variety of ventilation applications is available. Our most popular heavy-duty duct features impregnated polyester material designed for harsh, industrial environments. Other options include economical light-duty duct, source capture duct and hazardous location, anti-static duct.

DUCT CANISTER

Extend the life of your duct with the protection of a COPPUS high-density, light-weight polyethylene canister; makes transporting and storage easier and safer.
Canisters for available duct sizes:
- 8″ x 25′ (203 mm x 7500 mm)
- 12″ x 20′ (305 mm x 6000 mm)
- 16″ x 30′ (406 mm x 9000 mm)

JECTAIR TRIPOD

For stationary, long-term use; rotates 360 degrees for precise direction of airflow and accommodates 3-HP and 6-HP Jectair sizes. Installs quickly and easily with two quick-release clamps. Large feet provide stability during operation, and spring-loaded legs fold up for easy transport and storage.



SOURCE CAPTURE HOOD

Available for 5″ and 6″ air duct.

TRANSPORT CART

Heavy-duty cart allows easier transportation of VANO 175CV and 250CV ventilators (which can remain on cart during operation); includes crane-lifting loop.
WEIGHT: 25 lbs (11kg)

VANO TRIPOD

Attaches to VANO 175CV or 250CV model; makes positioning of units and direction of airflow easier by rotating 360 degrees on a 45-degree plane; spring-loaded legs fold up for easy transport and storage.
WEIGHT: 19 lbs (9kg)

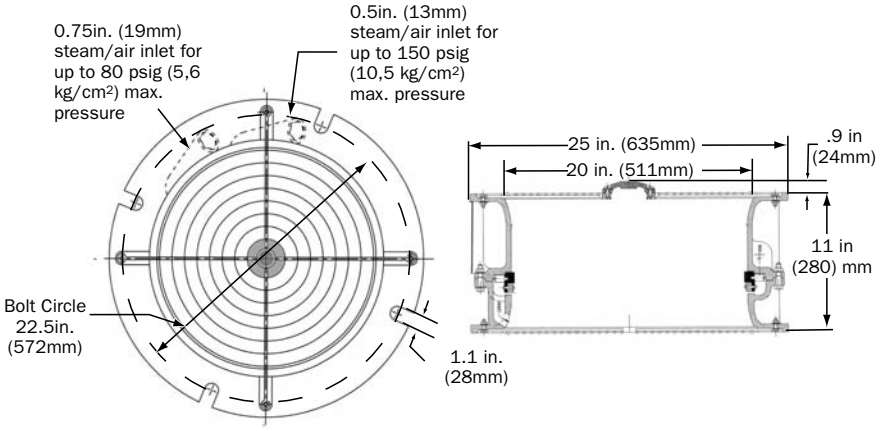
COPPUS® CP-20

AIR- OR STEAM-TURBINE-DRIVEN BLOWER/ EXHAUSTER

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.

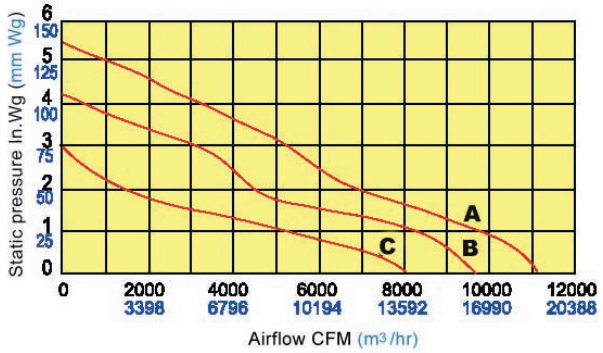
FEATURES

- Delivers air flow up to 11,200 cfm (19,029 m^3/hr)
- Can be used as blower or exhauster
- Fits 20" (508 mm) API tank opening
- Cast aluminum housing and fan blade
- Stainless steel turbine buckets
- Dual inlet stainless steel nozzles expand steam or compressed air up to 150 psig
- Fan assembly shaft rotates on permanently sealed ball bearings



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

PERFORMANCE

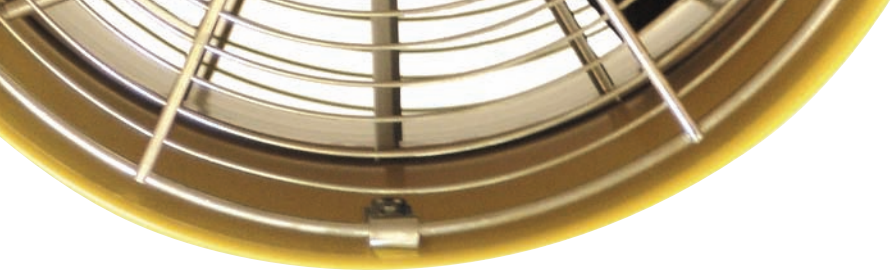


A=80 psig (5, 6 kg/cm²) at large nozzle or 150 psig (10,6 kg/cm²) at small
B=60 psig (4, 2 kg/cm²) at large nozzle or 115 psig (8, 1 kg/cm²) at small
C=40 psig (2, 8 kg/cm²) at large nozzle or 80 psig (5, 6 kg/cm²) at small

Blue numbers on chart indicate metric measurement

STEAM AND AIR CONSUMPTION

STEAM/AIR PRESSURE psig (kg/cm²)	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)



COPPUS®
REACTION FANS
(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 blade providing extremely efficient, high-volume, low-maintenance air movers.

RF-20

RF-24

RF-12

RF-16

RF-20, RF-24 FEATURES

- 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" (508 mm) and 24" (610 mm) API tank openings

RF-12, RF-16 FEATURES

- 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" (305 mm) and 16" duct (406 mm)
- Bolt holes allow attachment of optional adapter plates

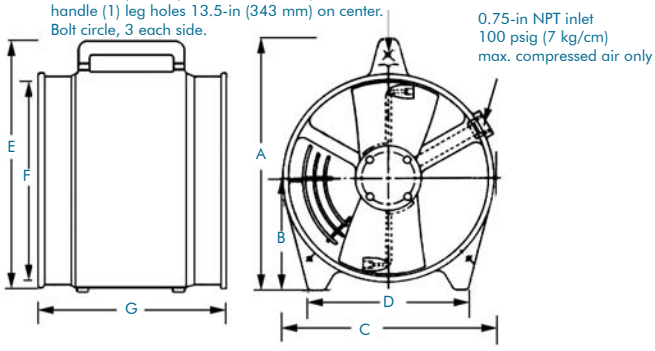
SWING-OUT ASSEMBLY FOR RF-20/24 AND CP-20

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" (508 mm) or 24" (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.

RF-12, RF-16 PERFORMANCE SPECIFICATIONS

AIR FLOW THROUGH FLEXIBLE DUCT AT 80 psig [cfm (m^3/hr)]

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



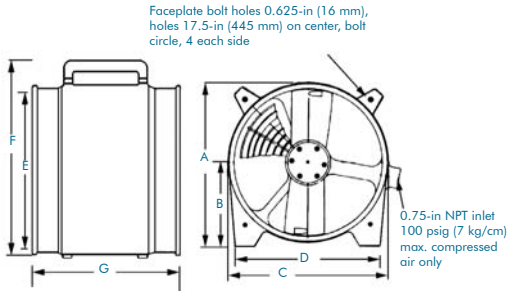
RF-12, RF-16 FREE AIR OPERATING DATA

AIR FLOW DIVIDED BY CONSUMED AIR=DELIVERY RATIO (EFFICIENCY)

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

RF-12, RF-16 DIMENSIONS (in/mm)

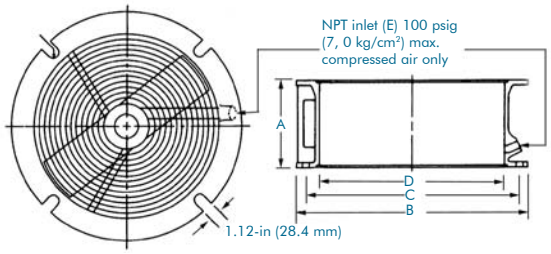
MODEL	A	B	C	D	E	F	G	Wt.
RF-12	14.5 (368)	6.4 (163)	12.0 (305)	10.5 (267)	10.9 (276)	11.8 (299)	10.8 (273)	39 lbs 18 kg
RF-16	16.4 (416)	8.4 (213)	17.4 (442)	14.5 (368)	15.4 (391)	15.8 (401)	12.0 (305)	50 lbs 23 kg



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

RF-20, RF-24 DIMENSIONS - in (mm)

MODEL	A	B	C	D	E	BOLT SLOTS		Wt.
						SIZE	No.	
RF-20	10.2 (260)	24.7 (629)	22.5 (572)	19.5 (495)	0.75 (19)	1.12 (28.4)	4	69 lbs 31 kg
RF-24	11.6 (294)	31.2 (794)	30.2 (768)	24.0 (610)	1 (25)	1.12 (28.4)	4	160 lbs 73 kg



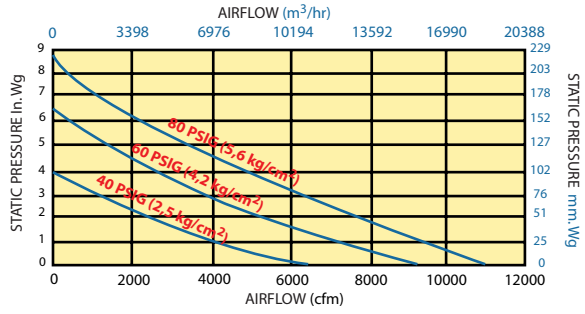
RF-20, RF-24 FREE AIR OPERATING DATA

AIR FLOW DIVIDED BY CONSUMED AIR=DELIVERY RATIO (EFFICIENCY)

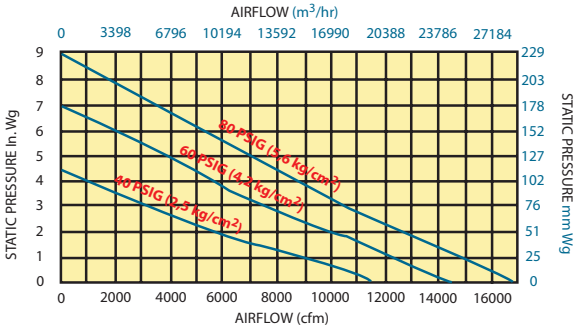
MODEL	INLET PRESSURE		AIR CONSUMPTION		TOTAL AIR FLOW		DELIVERY RATIO
	psig	kg/cm^2	scfm	m^3/hr	scfm	m^3/hr	
RF-20	60 80	4.2 5.6	160 210	271 375	7,000 11,000	11,893 18,689	59 53
RF-24	60 80	4.2 5.6	324 400	550 680	14,600 16,900	24,804 28,713	45 42

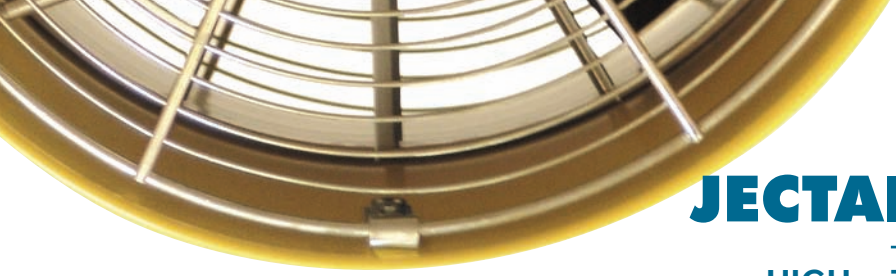
CONTACT FACTORY FOR PERFORMANCE THROUGH 20-INCH (508 mm) and 24-INCH (610 mm) AIR DUCT

RF-20 PERFORMANCE



RF-24 PERFORMANCE





COPPUS®
JECTAIR® HP & HORNET HP

HIGH-PERFORMANCE, HIGH-EFFICIENCY VENTURI AIR MOVERS

The unmatched performance of the COPPUS Jectair® HP is recognized throughout the industry. When compared with older-style air horns, the patented air mixing chamber of the Jectair® HP can produce up to a 40:1 air flow conversion and up to 26 percent savings on compressed air consumption (see efficiency performance charts on next page).

OPERATING PRINCIPLE

Compressed air or steam is admitted into the Jectair through a single inlet connection in the housing leading to the mixing chamber. The air or steam jetted from the nozzle creates a "Venturi" action that induces a large volume of surrounding air to enter the Jectair through the aerodynamic inlet bell. The air is then discharged at high velocity through the horn-shaped diffuser.

NOTE: Operating efficiency depends on compressed air volume and pressure (see efficiency performance charts on next page).

JECTAIR® HORNET FEATURES

The Jectair Hornet HP features a lightweight, shock-resistant, conductive polymer diffuser that is virtually indestructable

- Available in three sizes: 3S-HP, 3-HP, and 6-HP
- Polymer safely dissipates static electricity charges
- Diffuser is constructed of linear low-density polyethylene, rated UL 94-V2 with maximum operating temperature of 160° Fahrenheit (93° Celcius)

FEATURES

- Available in five sizes: 3S-HP, 3-HP, 6-HP, 8, or 9
- High-performance (HP) and Hornet models available in three sizes: 3S-HP, 3-HP, and 6-HP
- Air flows range from 1,370 to 8,900 cfm (2,328 to 15,121 m^3/hr)
- Induction ratios up to 40:1
- Multiple expansion nozzles machined into housing
- High static pressure capabilities
- Diffuser material available in steel, aluminum or shock-resistant polymer (Hornet HP)
- No moving parts (virtually maintenence-free)
- Static bonding cable (standard on all models) with spring tension grip and replaceable contact tips
- Accepts flexible duct on diffuser end (optional duct adapter for inlet end available)
- Tripod for stationary mounting available (see accessories, page 17)

EFFICIENCY PERFORMANCE

INDUCTION RATIO = cfm of total airflow/cfm of compresed air

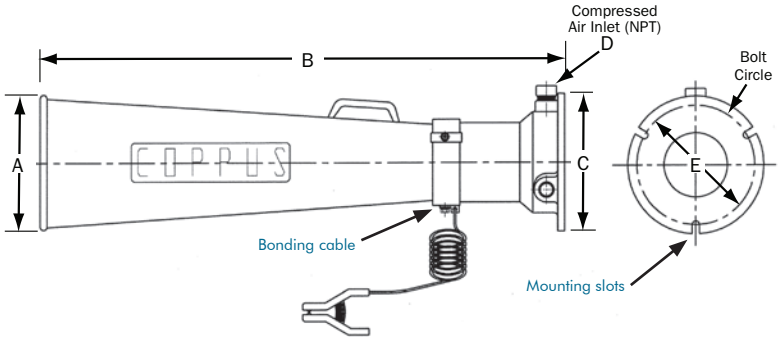
INLET PRESSURE	MODEL	AIR FLOW cfm (m^3/hr)	AIR CONSUMED (scfm)	INDUCTION RATIO
60 psig 4,2 kg/cm^2	3S-HP	1370 (2328)	47 (80)	29.1
	3-HP	1520 (2595)	47 (80)	32.3
	6-HP	3980 (6762)	98 (167)	40.6
	8	5600 (9515)	178 (302)	31.5
	9	6880 (11,096)	265 (450)	25.8
80 psig 5,6 kg/cm^2	3S-HP	1530 (2600)	61 (104)	25.1
	3-HP	1700 (2888)	61 (104)	27.8
	6-HP	4500 (7645)	126 (214)	35.7
	8	6250 (10,620)	233 (396)	26.8
	9	8000 (13,592)	366 (571)	23.8
100 psig 7 kg/cm^2	3S-HP	1660 (2820)	72 (122)	23.0
	3-HP	1860 (3160)	72 (122)	25.8
	6-HP	4870 (8274)	153 (260)	31.8
	8	6750 (11,469)	282 (479)	23.9
	9	8900 (15,121)	410 (697)	21.7

Maximum operating pressure of 150 psig on compressed air or steam

PERFORMANCE THROUGH VARIOUS LENGTHS OF FLEXIBLE DUCT AT 80 PSIG (7 KG/CM^2)

High static pressure capabilities of the Jectair HP air mover permit use of long runs of flexible duct on outlet or inlet diffuser

MODEL	DUCT diameter	FREE AIR cfm (m^3/hr)	20-ft /6 m cfm (m^3/hr)	30-ft / 9 m cfm (m^3/hr)	40-ft / 12 m cfm (m^3/hr)	50-ft / 15 m cfm (m^3/hr)
3-HP	8-in (203 mm)	1700 2888	1550 (2634)	1480 (2515)	1410 (2396)	1350 (2294)
6-HP	12-in (305 mm)	4500 (7645)	4020 (6830)	3860 (6558)	3715 (6312)	3580 (6083)
8	14-in (356 mm)	6250 (10,620)	5550 (9431)	5280 (8972)	5050 (8581)	4850 (8241)
9	14-in (356 mm)	8000 (13,592)	6850 (11,640)	6550 (11,130)	6250 (10,620)	6000 (10,195)



MODEL	A	B	C	D	MOUNTING SLOTS E	MOUNTING SLOTS No.	MOUNTING SLOTS Width	Wt.
3S-HP	6.0 (152)	16.5 (419)	7.5 (190)	0.5 (13)	6.5 (165)	3	0.4 (10)	6 lbs (2, 7 kg)
3-HP	7.3 (185)	33.0 (838)	7.5 (190)	0.5 (13)	6.5 (165)	3	0.4 (10)	9 lbs (4, 1 kg)
6-HP	12.0 (305)	44.2 (1123)	11.5 (292)	1 (25)	10.8 (274)	3	0.4 (10)	21 lbs (9, 5 kg)
8	14.0 (356)	46.0 (1168)	14.3 (363)	1 (25)	13.5 (343)	3	0.5 (13)	35 lbs (15, 9 kg)
9	14.0 (356)	46.0 (1168)	16.8 (427)	1 (25)	15.3 (387)	10	0.9 (23)	42 lbs (19, 0 kg)

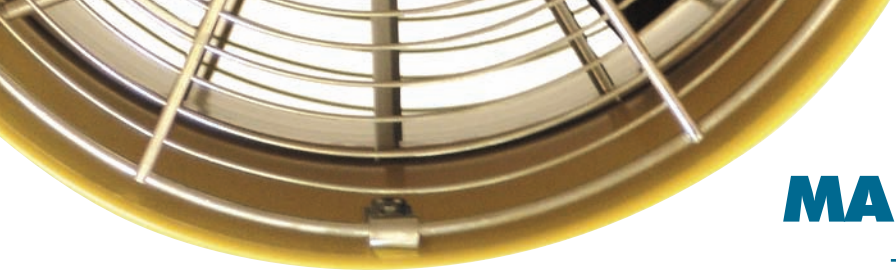
SAFETY PRECAUTIONS

- Use bonding cables (standard on all COPPUS Jectair air movers) when operating in hazardous locations to prevent static electricity discharges
- Secure unit before admitting compressed air (or steam) to prevent damage or injury from high-reaction force
- Do not allow solid objects or debris to enter inlet housing during operation
- When exhausting fumes from an enclosed vessel, take care not to create a vacuum that could collapse the vessel

BLOCKED TIGHT STATIC PRESSURE

MODEL	INLET PRESSURE 60 psig (4,2 kg/cm^2)	INLET PRESSURE 80 psig (5,6 kg/cm^2)	INLET PRESSURE 100 psig (7 kg/cm^2)
3S-HP	5.8-in (147 mm)	7.5-in (191 mm)	8.9-in (224 mm)
3-HP	5.8-in (147 mm)	7.5-in (191 mm)	8.9-in (224 mm)
6-HP	4.3-in (109 mm)	5.6-in (132 mm)	6.7-in (170 mm)
8	3.9-in (99 mm)	5.2-in (132 mm)	6.2-in (157 mm)
9	5.5-in (140 mm)	6.8-in (173 mm)	7.7-in (196 mm)

VENTURI					
ITEM	PSIG	dBA	ITEM	PSIG	dBA
JECTAIR 3	80	88	JECTAIR 8	80	94
JECTAIR 3	60	85	JECTAIR 8	60	91
JECTAIR 3	40	81	JECTAIR 8	40	87
JECTAIR 6	80	92	JECTAIR 9	80	95
JECTAIR 6	60	89	JECTAIR 9	60	92
JECTAIR 6	40	85	JECTAIR 9	40	88



COPPUS®
MARINE VENTILATORS

MARINE VENTILATORS: STEAM-, AIR-, AND WATER TURBINE-DRIVE VENTILATORS

COPPUS marine ventilators are rugged, dependable cargo tank ventilators that have served the shipping industry for many years. They are ideal for on-board gas-freeing, drying and ventilation operations and are available in supply or exhaust models.

Adapter allows Marine Ventilators to mate with Butterworth and other deck and tank openings. Adapters available with or without fixed guide vanes.

STEAM/COMPRESSED AIR TURBINE-DRIVE MODELS

C-12A SUPPLY delivers 5,350 cfm (9,090 m^3/hr)
C-12A EXHAUST delivers 4,600 cfm (7,815 m^3/hr)
C-15A SUPPLY delivers 8,400 cfm (14,275 m^3/hr)
C-15A EXHAUST delivers 6,500 cfm (11,040 m^3/hr)

FEATURES

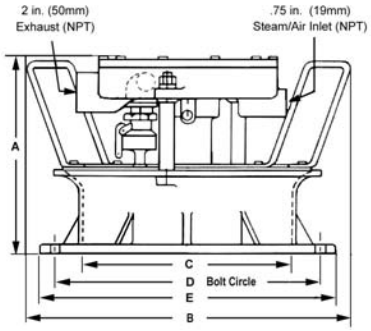
- Cast-iron turbine housing with aluminum cover
- Bronze turbine wheel and stainless steel turbine blades/ nozzles
- Spark-resistant cast aluminum fan and fan housing
- Stainless steel fasteners, studs and protective screen

WATER TURBINE DRIVE MODELS

C-12AWC SUPPLY delivers 5,000 cfm (8,495 m^3/hr)
C-12AWC EXHAUST delivers 4,700 cfm (7,985 m^3/hr)
C-15AWC SUPPLY delivers 7,400 cfm (12,573 m^3/hr)
C-15AWC EXHAUST delivers 5,700 cfm (9,769 m^3/hr)

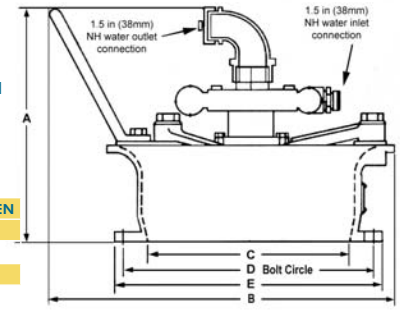
FEATURES

- Anodized cast aluminum motor housing, impeller, inlet/ outlet connections
- Permanently sealed, lubricated stainless steel ball bearings
- Stainless steel fasteners and protective screen



Air/Steam Model

Water Model



AIR-, STEAM-, OR WATER- DRIVEN		
ITEM	RPM	dBA
C-12AWC	5350	97
C-12A	4230	102
C-15A	4500	101

DIMENSIONS FOR MARINE VENTILATORS

MODEL	A in (mm)	B in (mm)	C in (mm)	D in (mm)	E in (mm)	M Size	M No.	Wt lbs (kg)
C-12A	12.6 (321)	20.5 (521)	12.5 (318)	15.3 (388)	16.8 (427)	0.93 (24)	10	100 (45)
C-15A	21.0 (533)	22.2 (563)	15.3 (388)	20.5 (521)	21.5 (546)	1.12 (28)	8	120 (54)
C-12 AWC	14.8 (376)	22.5 (572)	12.5 (318)	15.3 (388)	16.8 (427)	0.93 (24)	10	40 (18)
C-15 AWC	16.5 (419)	24.5 (622)	15.2 (386)	20.5 (521)	21.5 (546)	1.12 (28)	8	53 (24)

COPPUS®
MARINE VENTURI

MARINE VENTURI: LIGHTWEIGHT, DECK-MOUNT, COMPRESSED AIR DRIVE VENTILATOR

Easy to transport, rugged and maintenance-free shipboard ventilator for degassing or delivering fresh air supply to cargo tanks and other on-board confined spaces

FEATURES

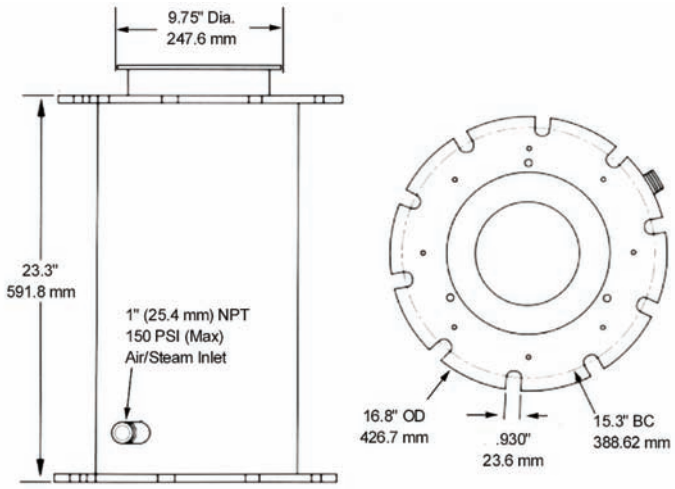
- Delivers 4,870 cfm (8,274 m^3/hr) operating with 100 psig compressed air
- Spark-resistant, corrosion-resistant, powder-coated aluminum construction
- Weighs only 32 lbs (15 kg)
- Mates with 12″ (320 mm) Butterworth deck openings in either supply or exhaust set-up
- Built-in flange on outlet end accepts 12″ (320 mm) flexible duct, nozzles
- Stainless steel fasteners, studs, and protective screen

OPERATING PRINCIPLE

Compressed air or steam is admitted into the Marine Venturi through a single inlet connection in the housing leading to the mixing chamber. The air from the nozzle creates a Venturi action that induces a large volume of surrounding air to enter through the inlet end. The air is then forced out through the outlet at high velocity.

SPECIFICATIONS FOR MARINE VENTURI

INLET PRESSURE psig (kg/cm²)	TOTAL AIRFLOW cfm (m^3/hr)	AIR CONSUMED cfm (m^3/hr)	INDUCTION RATIO
60 4.2	3,980 (6,762)	98 (167)	40.6
80 5.6	4,500 (7,645)	126 (214)	35.7
100 7	4,870 (8,274)	150 (214)	31.8



INDUSTRIES SERVED

COPPUS portable ventilators serve a variety of industries that require a reliable fresh air supply in confined spaces for process cooling, equipment cooling and personnel cooling to increase safety and improve production.

These industries include...

PAINTING AND COATING: Drying and curing, fume exhaust, fresh air supply for comfort and safety

HIGH-HEAT PROCESS STEEL: Process cooling, personnel cooling

ELECTRIC AND GAS UTILITIES: Underground ventilation, equipment cooling, fume exhaust

PAPER: Confined space ventilation, personnel cooling

SHIPBUILDING: Welding fume exhaust, fresh air supply

MARINE: Cargo tank ventilation

OIL REFINING: Equipment cooling, confined space ventilation, personnel cooling

CHEMICAL MANUFACTURE: Fume exhaust and ventilation, personnel cooling

BEVERAGE: Fume exhaust, process cooling

POWER GENERATION: Confined space ventilation, personnel cooling