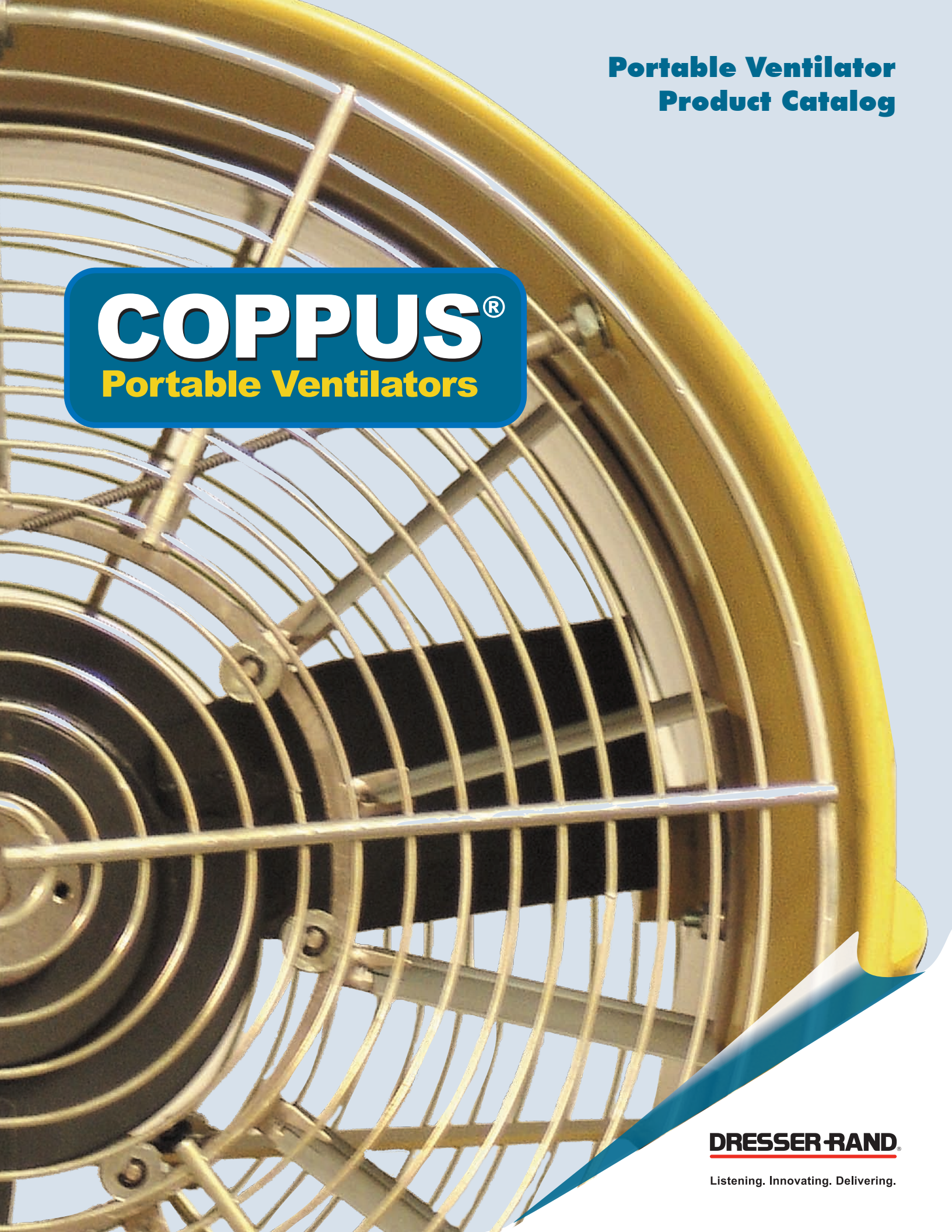
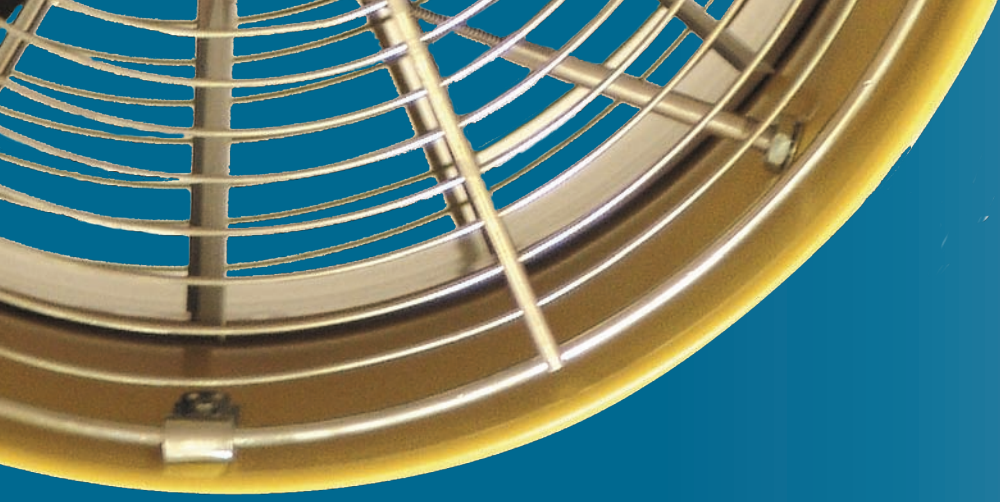
Portable Ventilator Product Catalog



COPPUS®
Portable Ventilators

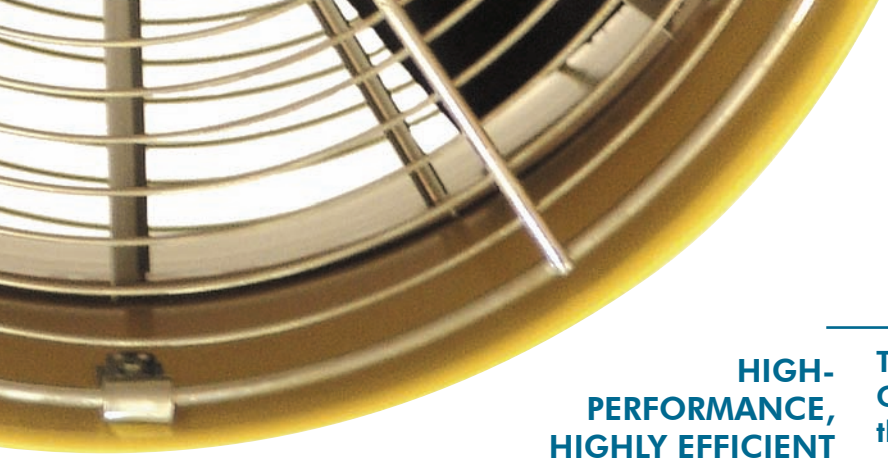
DRESSER-RAND

Listening. Innovating. Delivering.



WELCOME

For more than 90 years, COPPUS portable ventilators and cooling products have been recognized as leaders in providing reliable, ventilation to meet the demands of safety and maintenance personnel around the world in refineries, chemical plants, steel mills, paper mills, utilities, fabrication shops, and a host of other industries including construction, railroads, airlines, shipbuilding, marine and food/beverage processing.



COPPUS® JECTAIR® HP AND HORNET HP

HIGH-PERFORMANCE, HIGHLY EFFICIENT 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 degrees Fahrenheit (93 degrees 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 (m³/hr)	AIR CONSUMED (scfm)	INDUCTION RATIO
60 psig 4,2 kg/cm²	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

INLET PRESSURE	MODEL	AIR FLOW cfm (m³/hr)	AIR CONSUMED (scfm)	INDUCTION RATIO
80 psig 5,6 kg/cm²	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

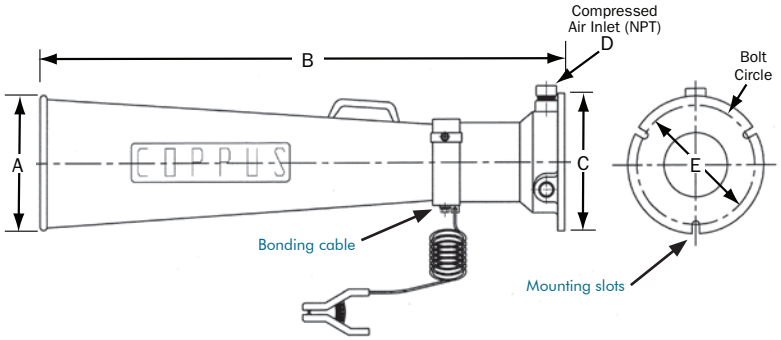
INLET PRESSURE	MODEL	AIR FLOW cfm (m³/hr)	AIR CONSUMED (scfm)	INDUCTION RATIO
100 psig 7 kg/cm²	3S-HP	1660 (2820)	72 (122)	23.0
	3-HP	1860 (3160)	72 (122)	25.8
	6-HP	4870 (8274)	153 (260)	31.8
	8	6750 (11,469)	282 (479)	23.9
	9	8900 (15,121)	410 (697)	21.7

Maximum operating pressure of 150 psig on compressed air or steam

PERFORMANCE THROUGH VARIOUS LENGTHS OF FLEXIBLE DUCT AT 80 PSIG (7 KG/CM²)

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 (m³/hr)	20-ft /6 m cfm (m³/hr)	30-ft / 9 m cfm (m³/hr)	40-ft / 12 m cfm (m³/hr)	50-ft / 15 m cfm (m³/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			Wt.
					E	No.	Width	
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/cm²)	80 psig (5,6 kg/cm²)	100 psig (7 kg/cm²)
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® 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-inch (203 mm), 12-inch (304.8 mm), 16-inch (406 mm), 20-inch (508 mm), and 24-inch (610 mm); larger diameters available on request
- Available lengths: 10-foot (3 m) and 25 foot (7.5 m); duct can be coupled together for longer runs
- Temperature range: -40 degrees F (-40 degrees C) to +250 degrees F (+121 degrees 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-inch (102 mm), 5-inch (127 mm) and 6-inch (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.

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.

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)

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