



COPPUS Jectair® HP and Hornet HP

High-performance, highly efficient
Venturi air movers

MODEL/SPECIFICATIONS

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.

* **Steam use on steel diffuser units only.**

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

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

JECTAIR DESCRIPTION

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.

FEATURES / ADVANTAGES

- Available in five sizes: 3S-HP, 3-HP, 6-HP, 8-HP, or 9-HP
- 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 m³/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 maintenance-free)
- Static bonding cable (standard on all models) with spring tension grip and replaceable contact tips.

OPTIONS

- Accepts flexible duct on diffuser end
- Inlet duct adapter available
- Tripod for stationary mounting available

JECTAIR HORNET DESCRIPTION

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

JECTAIR HORNET FEATURES / ADVANTAGES

- 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 with maximum operating temperature of 160° Fahrenheit (93° Celsius)

TECHNICAL DATA

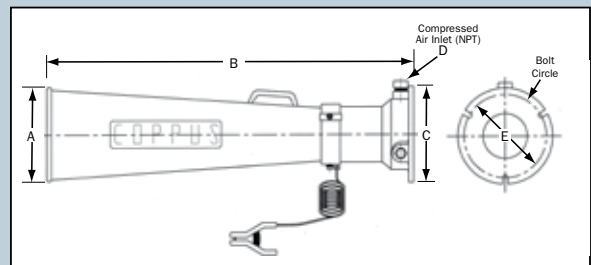
| EFFICIENCY PERFORMANCE AT SELECT INLET PRESSURES INDUCTION RATIO = cfm of total airflow/cfm of compressed air | | | | | | | | |
|--|-------|----------|--------------------|-----------------|--------------------|-----------------|-----------------------------|-----|
| INLET PRESSURE | MODEL | AIR FLOW | | AIR CONSUMPTION | | INDUCTION RATIO | BLOCK TIGHT STATIC PRESSURE | |
| | | cfm | m ³ /hr | cfm | m ³ /hr | | inch | mm |
| 60 psig 4,2 kg/cm ² | 3S-HP | 1,370 | 2,328 | 47 | 80 | 29.1 | 5.8 | 147 |
| | 3-HP | 1,520 | 2,595 | 47 | 80 | 32.3 | 5.8 | 147 |
| | 6-HP | 3,980 | 6,762 | 98 | 167 | 40.6 | 4.3 | 109 |
| | 8 | 5,600 | 9,515 | 178 | 302 | 31.5 | 3.9 | 99 |
| | 9 | 6,880 | 11,096 | 265 | 450 | 25.8 | 5.5 | 140 |
| 80 psig 5,6 kg/cm ² | 3S-HP | 1,530 | 2,600 | 61 | 104 | 25.1 | 7.5 | 191 |
| | 3-HP | 1,700 | 2,888 | 61 | 104 | 27.8 | 7.5 | 191 |
| | 6-HP | 4,500 | 7,645 | 126 | 214 | 35.7 | 5.6 | 132 |
| | 8 | 6,250 | 10,620 | 233 | 396 | 26.8 | 5.2 | 132 |
| | 9 | 8,000 | 13,592 | 366 | 571 | 23.8 | 6.8 | 173 |
| 100 psig 7 kg/cm ² | 3S-HP | 1,660 | 2,820 | 72 | 122 | 23.0 | 8.9 | 224 |
| | 3-HP | 1,860 | 3,160 | 72 | 122 | 25.8 | 8.9 | 224 |
| | 6-HP | 4,870 | 8,274 | 153 | 260 | 31.8 | 6.7 | 170 |
| | 8 | 6,750 | 11,469 | 282 | 479 | 23.9 | 6.2 | 157 |
| | 9 | 8,900 | 15,121 | 410 | 697 | 21.7 | 7.7 | 196 |

| VENTURI | | |
|-----------|------|-----|
| ITEM | PSIG | dBa |
| Jectair 3 | 80 | 88 |
| Jectair 3 | 60 | 85 |
| Jectair 3 | 40 | 81 |
| Jectair 6 | 80 | 92 |
| Jectair 6 | 60 | 89 |
| Jectair 6 | 40 | 85 |
| Jectair 8 | 80 | 94 |
| Jectair 8 | 60 | 91 |
| Jectair 8 | 40 | 87 |
| Jectair 9 | 80 | 95 |
| Jectair 9 | 60 | 92 |
| Jectair 9 | 40 | 88 |

Maximum operating pressure 150 psig (10.5 kg/cm²)

| PERFORMANCE THROUGH VARIOUS LENGTHS OF FLEXIBLE DUCT AT 80 PSIG (7 KG/CM ²) High static pressure capabilities of the JectairHP air mover permit use of long runs of flexible duct on outlet or inlet diffuser. | | | | | | |
|---|---------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| MODEL | DUCT Diameter | FREE AIR | 20 ft/6 m | 30 ft/9 m | 40 ft/12 m | 50 ft/15 m |
| | in/mm | cfm/m ³ /hr | cfm/m ³ /hr | cfm/m ³ /hr | cfm/m ³ /hr | cfm/m ³ /hr |
| 3-HP | 8/203 | 1,700/2,888 | 1,550/2,634 | 1,480/2,515 | 1,410/2,396 | 1,350/2,294 |
| 6-HP | 12/305 | 4,500/7,645 | 4,020/6,830 | 3,860/6,558 | 3,715/6,312 | 3,580/6,083 |
| 8 | 14/356 | 6,250/10,620 | 5,550/9,431 | 5,280/8,972 | 5,050/8,581 | 4,850/8,241 |
| 9 | 14/356 | 8,000/13,592 | 6,850/11,640 | 6,550/11,130 | 6,250/10,620 | 6,000/10,195 |

| DIMENSIONS | | | | | | | | |
|------------|-------------|---------------|-------------|-----------|----------------|-----|-----------|---------------|
| MODEL | in/mm | | | | | | | WT lbs/kgs |
| | A | B | C | D | MOUNTING SLOTS | | | |
| | | | | | 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 2.7 |
| 3-HP | 7.3 185 | 33.0 838 | 7.5 190 | 0.5 13 | 6.5 165 | 3 | 0.4 10 | 9 4.1 |
| 6-HP | 12.0 305 | 44.2 1,123 | 11.5 292 | 1 25 | 10.8 274 | 3 | 0.4 10 | 21 9.5 |
| 8 | 14.0 356 | 46.0 1,168 | 14.3 363 | 1 25 | 13.5 345 | 3 | 0.5 13 | 35 15.9 |
| 9 | 14.0 356 | 46.0 1,168 | 16.8 427 | 1 25 | 15.3 387 | 10 | 0.9 23 | 42 19.0 |



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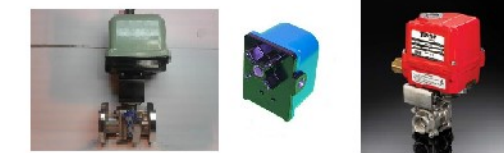
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