



# 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 m<sup>3</sup>/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 <sup>3</sup> /hr	cfm	m <sup>3</sup> /hr		inch	mm
60 psig 4,2 kg/cm <sup>2</sup>	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 <sup>2</sup>	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 <sup>2</sup>	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/cm<sup>2</sup>)

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

