



## JECTAIR® HI Performer (HP) and JECTAIR Hornet HP



**NOTE:** Maximum operating pressure is 150 PSIG

### JECTAIR® HORNET HP Shock Resistant, Polymer Diffuser.



The Jectair Hornet HP features a light weight, shock resistant, conductive polymer diffuser that is virtually indestructible.

- Available in 3 sizes: 3S-HP, 3-HP & 6-HP
- Polymer safely dissipates static electric charges.
- Diffuser is constructed of linear low density polyethylene, rated UL 94-V2 with maximum operating temperature of 160 °F (93 °C)

### High Performance, highly efficient Venturi Air Movers

The unmatched performance of the COPPUS Jectair HPs is recognized throughout the industry. When compared to older style air horns, the patented air mixing chamber of the Jectair HP produces **14% more air while consuming 26% less compressed air.** (see performance/efficiency charts on following page).

#### FEATURES:

- Available in 5 sizes: 9, 8, 6-HP, 3-HP, 3S-HP
- HI Performer (HP) and Hornet models available in 3 sizes: 6-HP, 3-HP and 3S-HP
- Air flows range from 1370 to 8900 cfm (2,328 to 15,121m<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).
- Steel diffusers protected by safety yellow, epoxy base powder coating with conductive filler to help dissipate static charge.
- No moving parts - Virtually maintenance free.
- Static bonding cable with spring tension grip and replaceable contact tips standard on all models.
- Accepts flexible duct on diffuser end (optional duct adapter for inlet end available).
- Tripod for stationary mounting available (see Accessories on page 6 for more information).

#### OPERATING PRINCIPLE:

Compressed air or steam is admitted to 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 which induces a large volume of surrounding air to enter the Jectair through the inlet bell. The air is then discharged at high velocity through the horn shaped diffuser.

**NOTE:** Operating efficiency is dependent upon compressed air volume and pressure (see performance/efficiency charts on following page).

**EFFICIENCY PERFORMANCE**

INDUCTION RATIO =  $\frac{\text{CFM of Total AirFlow}}{\text{CFM of Compressed Air}}$

Inlet Pressure	Model	Air Flow cfm (m <sup>3</sup> /hr)	Air Consumed (scfm)	Induction Ratio
<b>60 psig</b> 4,2kg/cm <sup>2</sup>	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
<b>80 psig</b> 5,6kg/cm <sup>2</sup>	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	336 571	23.8
<b>100 psig</b> 7kg/cm <sup>2</sup>	3S-HP	1660 2820	72 122	25.8
	3-HP	1860 3160	72 122	23.0
	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.

**BLOCKED TIGHT STATIC PRESSURE**

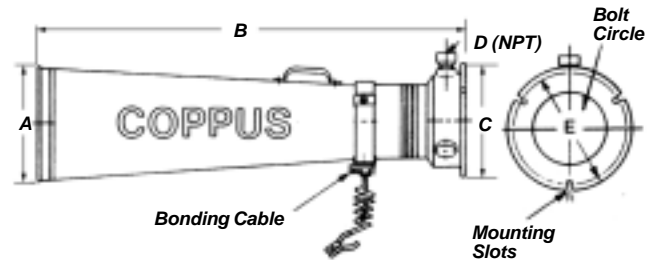
Model	Inlet Pressure		
	60 psig 4,2kg/cm <sup>2</sup>	80 psig 5,6kg/cm <sup>2</sup>	100 psig 7kg/cm <sup>2</sup>
<b>3S-HP</b>	5.8" 147mm	7.5" 191mm	8.9" 224mm
<b>3-HP</b>	5.8" 147mm	7.5" 191mm	8.9" 224mm
<b>6-HP</b>	4.3" 109mm	5.6" 132mm	6.7" 170mm
<b>8</b>	3.9" 99mm	5.2" 132mm	6.2" 157mm
<b>9</b>	5.5" 140mm	6.8" 173mm	7.7" 196mm

**PERFORMANCE THROUGH VARIOUS LENGTHS OF FLEXIBLE DUCT AT 80 psig (7kg/cm<sup>2</sup>)**

High static pressure capabilities of the Jectair HP permits use of long runs of flexible duct on outlet or inlet diffuser.

Model	Duct Diameter	Free Air cfm/m <sup>3</sup> /hr	20'/6m cfm/m <sup>3</sup> /hr	30'/9m cfm/m <sup>3</sup> /hr	40'/12m cfm/m <sup>3</sup> /hr	50'/15m cfm/m <sup>3</sup> /hr
3-HP	8"	1700	1550	1480	1410	1350
	203mm	2888	2634	2515	2396	2294
6-HP	12"	4500	4020	3860	3715	3580
	305mm	7645	6830	6558	6312	6083
8	14"	6250	5550	5280	5050	4850
	356mm	10,620	9431	8972	8581	8241
9	14"	8000	6850	6550	6250	6000
	356mm	13,592	11,640	11,130	10,620	10,195

**DIMENSIONS**



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

**SAFETY PRECAUTIONS**

- Use Bonding Cables (standard on all COPPUS Jectairs) when operating in hazardous locations to prevent static electrical discharges.
- Secure unit before admitting compressed air (or steam) to prevent damage or injury from high reaction force.
- Do not allow solid objects or loose debris to enter inlet housing during operation.
- When exhausting fumes from enclosed vessels, take care not to create vacuum conditions that could collapse vessel.