To accomplish these impressive air savings, we incorporate the proven Transvector® amplification principle in our nozzle and jet designs. When compressed air enters the nozzle or jet, it fills a chamber with only one exit path – a thin annular orifice. As air passes through this orifice, it accelerates to 1000 ft (304.8 m) per second, entraining free surrounding air as it exits. The result is airflow volume up to 25 times more than supplied by the compressed air.

**Features…**
- Lowers operating costs and saves energy
- Helps meet OSHA noise specifications
- Meets OSHA dead-end pressure specifications
- Wide range of styles and thrust performance
- Significant savings when replacing open copper tube jets

**Drastically Reduce Compressed Air Consumption**

Vortec blowoff nozzles and jets are designed to significantly reduce compressed air consumption and noise, compared to open jets.

**Reduce your operating costs significantly with our nozzles and jets**

<table>
<thead>
<tr>
<th></th>
<th>Vortec Model 1201 Nozzle</th>
<th>1/4&quot; x 1' Length Copper Tube</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Air consumption</strong></td>
<td>9 SCFM</td>
<td>42 SCFM</td>
</tr>
<tr>
<td><strong>Annual operating cost/8-hour shift</strong></td>
<td>$324</td>
<td>$1512</td>
</tr>
<tr>
<td><strong>Annual cost savings per nozzle</strong></td>
<td></td>
<td>$1188</td>
</tr>
</tbody>
</table>

*Data based on 100 psig (6.9 bar) operating pressure and $0.30/1000 SCF compressed air cost.*
Air Nozzles and Jets

Drastically Reduce Compressed Air Consumption

Nozzles are an excellent replacement for open copper tubes, flex-line and other nozzles not designed to save air. A full range of styles, with designs compatible to most installations, is available.

### Nozzles

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Thrust (Power) Oz at 12&quot;</th>
<th>Air Consumption SCFM (SLPM)</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>1200 Nozzle</td>
<td>Adjustable output flow and thrust, 1/8&quot; NPT(M) inlet</td>
<td>3 to 21</td>
<td>8 (226) to 26 (736)</td>
<td>Threaded connection is ideal for installing on blow guns and manifolds. Adjustable micrometer dial sets airflow and thrust. Available in aluminum (1200) or stainless steel (1200 SS).</td>
</tr>
<tr>
<td>1200 SS Nozzle</td>
<td>1/8&quot; NPT(M) inlet</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9401 Blow Gun</td>
<td>Blow Gun with adjustable output model 1200 nozzle, 1/4&quot; NPT(F) inlet</td>
<td>3 to 21</td>
<td>8 (226) to 26 (736)</td>
<td>Thumb lever operated blow gun with model 1200 adjustable output &quot;Durablast&quot; nozzle.</td>
</tr>
<tr>
<td>1201 Nozzle</td>
<td>1/4&quot; OD, copper tubing</td>
<td>6</td>
<td>9 (255)</td>
<td>Compact size. Permanently mounted on copper tubing which can be bent, flared, used with compression fittings or soldered.</td>
</tr>
<tr>
<td>1201F-12</td>
<td>3/8&quot; OD, flexible rubber hose, 1/8&quot; NPT(M) inlet</td>
<td>6</td>
<td>9 (255)</td>
<td>Compact size. Permanently mounted on flexible hose. Holds position under full line pressure. Ideal for areas with limited space.</td>
</tr>
<tr>
<td>1202 Nozzle</td>
<td>1/4&quot; OD, copper tubing, high thrust</td>
<td>20</td>
<td>23 (651)</td>
<td>Compact size. Permanently mounted on copper tubing which can be bent, flared, used with compression fittings or soldered.</td>
</tr>
<tr>
<td>1203 Nozzle</td>
<td>3/8&quot; OD, copper tubing</td>
<td>9</td>
<td>13 (368)</td>
<td>Permanently mounted on copper tubing which can be bent, flared, used with compression fittings or soldered.</td>
</tr>
<tr>
<td>1204 Nozzle</td>
<td>1/2&quot; OD, flexible rubber hose, 1/8&quot; NPT(M) inlet</td>
<td>9</td>
<td>13 (368)</td>
<td>Permanently mounted on flexible hose. Holds position under full line pressure. Efficient replacement for flex-line used for blowoff.</td>
</tr>
<tr>
<td>1205 Nozzle</td>
<td>3/8&quot; OD, copper tubing, high thrust</td>
<td>28</td>
<td>31 (877)</td>
<td>Permanently mounted on copper tubing which can be bent, flared, used with compression fittings or soldered.</td>
</tr>
<tr>
<td>1206 Nozzle</td>
<td>11/16&quot; OD, high thrust, flexible rubber hose, 1/4&quot; NPT(M) inlet</td>
<td>28</td>
<td>31 (877)</td>
<td>Permanently mounted on flexible hose. Holds position under full line pressure. Efficient replacement for flex-line used for blowoff.</td>
</tr>
<tr>
<td>1220 Nozzle</td>
<td>4/4&quot; NPT(M) inlet, maximum thrust</td>
<td>72</td>
<td>120 (3396)</td>
<td>Threaded connection. Ideal for maximum thrust applications such as large surface blowoff. Perfect for paving, roofing and construction uses.</td>
</tr>
</tbody>
</table>

**Specifications are at 100 psig (6.9 bar) except 1220 nozzle is at 40 psig (2.7 bar).**

### Airstream Size

<table>
<thead>
<tr>
<th>Model No.</th>
<th>At Nozzle</th>
<th>12&quot; From Nozzle</th>
</tr>
</thead>
<tbody>
<tr>
<td>1200, 1200 SS</td>
<td>5/8&quot; (16 mm)</td>
<td>3-1/2&quot; (89 mm)</td>
</tr>
<tr>
<td>1201, 1202, 1201F-12</td>
<td>3/16&quot; (5 mm)</td>
<td>3-1/4&quot; (82 mm)</td>
</tr>
<tr>
<td>1203, 1204, 1205, 1206</td>
<td>1/4&quot; (6 mm)</td>
<td>3-1/4&quot; (82 mm)</td>
</tr>
<tr>
<td>1220</td>
<td>1&quot; (25.4 mm)</td>
<td>5&quot; (127 mm)</td>
</tr>
</tbody>
</table>
Air Nozzles and Jets
Drastically Reduce Compressed Air Consumption

Transvector Jets are round-throated air amplifiers. One end provides a strong airflow while the other creates suction as free air is entrained. Since jets output a more concentrated, targeted volume of air than nozzles, they are ideal for water, solvents or light oil stripping applications.

**Amplification 4:1**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Thrust (Power) Oz at 12&quot;</th>
<th>Air Consumption SCFM (SPLM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>909A Jet</td>
<td>Transvector Jet, easily adjustable output</td>
<td>2 to 17</td>
<td>5-21 (142-594)</td>
</tr>
<tr>
<td>901A Jet</td>
<td>Transvector Jet</td>
<td>6</td>
<td>8 (226)</td>
</tr>
<tr>
<td>901BA Jet</td>
<td>Transvector Jet, for conveying applications, 3/4&quot; (19 mm) diameter suction and discharge</td>
<td>6</td>
<td>8 (226)</td>
</tr>
<tr>
<td>901DA Jet</td>
<td>Transvector Jet, high thrust-focused output</td>
<td>14</td>
<td>17 (481)</td>
</tr>
<tr>
<td>901HA</td>
<td>Transvector Jet, high thrust, 3/4&quot; (19 mm) diameter suction connection</td>
<td>14</td>
<td>17 (481)</td>
</tr>
</tbody>
</table>

The compressed air inlet size for all of the above models is 1/8"-27 female NPT. All Transvector Jets are anodized aluminum and can be shimmed (except Model 909A) to vary the output thrust, suction and air consumption. Thrust and air consumption specifications are at 100 psig (6.9 bar).

**Air Consumption**

<table>
<thead>
<tr>
<th>SCFM (SPLM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-21 (142-594)</td>
</tr>
<tr>
<td>8 (226)</td>
</tr>
<tr>
<td>17 (481)</td>
</tr>
</tbody>
</table>

**Airstream Size**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>At Jet</th>
<th>12&quot; from Jet</th>
</tr>
</thead>
<tbody>
<tr>
<td>909A</td>
<td>3/8&quot; (10 mm)</td>
<td>3&quot; (76 mm)</td>
</tr>
<tr>
<td>901A</td>
<td>5/8&quot; (16 mm)</td>
<td>3-1/2&quot; (89 mm)</td>
</tr>
<tr>
<td>901BA</td>
<td>5/8&quot; (16 mm)</td>
<td>3-1/4&quot; (83 mm)</td>
</tr>
<tr>
<td>901DA</td>
<td>3/8&quot; (10 mm)</td>
<td>3&quot; (76 mm)</td>
</tr>
<tr>
<td>901HA</td>
<td>3/8&quot; (10 mm)</td>
<td>3&quot; (76 mm)</td>
</tr>
</tbody>
</table>

**ANNUAL BLOWOFF COST CALCULATION GUIDE**

Use these formulas to determine and compare the annual operating cost of your current blowoffs versus Vortec alternatives.

**Quick method:**

Assuming:
- 100 psig (6.9 bar) operating pressure
- $0.30 per 1000 SCF compressed air cost
- 250 work days/year

Calculate operating cost/shift by multiplying air consumption (SCFM) by 36.

Example:

9 SCFM (air consumption) x 36 = $324 (annual operating cost/shift)

For other operating conditions, follow these calculations:

___ SCFM x 60 minutes =___ SCFH

___ SCFH x ___ Hours of operation/day = ___ SCF/day

___ SCF/day x ___ Days of operation/year = ___ SCF/year

___SCF/year x $___/1000 SCF = $___ Annual operating cost

**Vortec nozzles and jets deliver precise airflows and are ideal for cleaning, drying, cooling, parts movement or ejection.**

For assistance in selecting the appropriate model for your requirements, contact our Technical Service Department at 800.745.5355.
Drastically Reduce Compressed Air Consumption

**1200 and 1200 SS Nozzles**

Adjustable Output

1/8"-27 NPT HEX

5/8" (16 mm) Diameter

1.88" (48 mm)

55° (10 mm)

5/8" (16 mm) HEX

1/8"-27 NPT INLET

**1201 and 1202 Nozzles**

1/4" (6.4 mm) Diameter

1.2" (30 mm)

80° (8.9 mm)

1/4" (6.4 mm) INLET

**1201F-12 Nozzle**

FLEXIBLE RUBBER HOSE

1/8"-27 NPT INLET

1.3" (13 mm)

1.88" (48 mm)

1/8"-27 NPT (FEMALE)

**1203 and 1205 Nozzles**

BENDABLE COPPER TUBE

1/8"-27 NPT (FEMALE)

3/8" (9.5 mm) DIAMETER

8" (203 mm)

1.43" (36 mm)

.50" (12.7 mm)

.50" (12.7 mm)

.75" (19 mm)

.75" (19 mm)

.62" INSIDE DIA. (16 mm)

.50" DIA. (12.7 mm)

.39" INSIDE DIAMETER (9.9 mm)

**1204 Nozzle**

FLEXIBLE RUBBER HOSE

.98" (25 mm)

1.85" (47 mm)

.97" (25 mm)

1.33" (34 mm)

.75" DIA. (19 mm)

.75" DIA. (19 mm)

.62" INSIDE DIA. (16 mm)

.300" INSIDE DIA. (7.6 mm)

1/8"-27 NPT INLET

**1206 Nozzle**

FLEXIBLE RUBBER HOSE

1.33" (34 mm)

1/4"-18 NPT INLET

1.33" DIA. (34 mm)

**1220 Nozzle**

3/4"-14 NPT INLET

4.9" (125 mm)

2.48" (63 mm)

1.49" (38 mm)

.97" (25 mm)

.62" (16 mm)

1.33" DIA. (34 mm)

1.33" DIA. (34 mm)

.62" INSIDE DIA. (16 mm)

.300" INSIDE DIA. (7.6 mm)

1/8"-27 NPT (FEMALE)

COMPRESSED AIR INLET

**901A Transvector Jet**

2.12" (54 mm)

1.49" (38 mm)

.97" (25 mm)

1.33" (34 mm)

.75" DIA. (19 mm)

.75" DIA. (19 mm)

.62" INSIDE DIA. (16 mm)

.375" INSIDE DIA. (9.5 mm)

1/8"-27 NPT (FEMALE)

COMPRESSED AIR INLET

**901DA Transvector Jet**

2.62" (67 mm)

2.12" (54 mm)

1.49" (38 mm)

.97" (25 mm)

.41" (10.5 mm)

1.33" DIA. (34 mm)

.50" DIA. (12.7 mm)

.60" DIA. (12.7 mm)

.40" INSIDE DIA. (10.2 mm)

1/8"-27 NPT (FEMALE)

COMPRESSED AIR INLET

**901HA Transvector Jet**

2.96" (76 mm)

2.48" (63 mm)

1.85" (47 mm)

1.33" (34 mm)

.97" (25 mm)

.62" (16 mm)

1.33" DIA. (34 mm)

.75" DIA. (19 mm)

.75" DIA. (19 mm)

.62" INSIDE DIA. (16 mm)

.300" INSIDE DIA. (7.6 mm)

1/8"-27 NPT (FEMALE)

COMPRESSED AIR INLET

**909A Transvector Set Jet**

2.57" (65 mm)

1.47" (37 mm)

.97" (25 mm)

1.19" DIAMETER (30.2 mm)

.375" INSIDE DIA. (9.5 mm)

1/8"-27 NPT (FEMALE)

COMPRESSED AIR INLET

**9401 Blow Gun**

The design of our Blow Gun makes it comfortable to hold and includes a convenient hang-up hook. Model 9401 has a 1/4" NPT(F) inlet thread and a 1/8" NPT(F) outlet thread. Includes a model 1200 adjustable nozzle.

Confident in the quality and reliability of Vortec products, we extend an unparalleled, 10-Year Warranty on all Air Nozzles and Jets.

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Developing compressed air solutions to improve manufacturing productivity for over 50 years!

VORTEC The Originator of Vortex Tube Products