

**PERFORMANCE DATA  
VORTEX TUBES**

INLET PRESSURE PSIG		PERFORMANCE DATA						
		20	COLD 30	FRACTION 40	% 50	60	70	80
20	TEMP. DROP DEGREE F	63.1	61.3	56.1	51.3	44.5	37	28.8
	<i>TEMP. INCREASE</i>	<i>15.1</i>	<i>24.4</i>	<i>37.8</i>	<i>51.3</i>	<i>65.1</i>	<i>82.5</i>	<i>108.1</i>
40	TEMP. DROP DEGREE F	89.2	85.8	81.1	73.2	63.1	52.5	39.1
	<i>TEMP. INCREASE</i>	<i>23.4</i>	<i>35.2</i>	<i>52.1</i>	<i>73.2</i>	<i>92.8</i>	<i>116.9</i>	<i>148.1</i>
60	TEMP. DROP DEGREE F	104.3	101.7	93.7	84.1	73.5	60.9	45.4
	<i>TEMP. INCREASE</i>	<i>25.6</i>	<i>39.9</i>	<i>59.1</i>	<i>84.1</i>	<i>104.1</i>	<i>133.1</i>	<i>169.1</i>
80	TEMP. DROP DEGREE F	117.1	111.2	102.3	92.2	81.3	66.2	50.1
	<i>TEMP. INCREASE</i>	<i>26.1</i>	<i>44.1</i>	<i>64.1</i>	<i>92.2</i>	<i>114.1</i>	<i>144.3</i>	<i>181.1</i>
100	TEMP. DROP DEGREE F	128.3	119.5	111.1	100.3	86.5	71.9	53.5
	<i>TEMP. INCREASE</i>	<i>27.8</i>	<i>46.1</i>	<i>67.3</i>	<i>100.3</i>	<i>119.9</i>	<i>151.1</i>	<i>192.1</i>

\* Cold Fraction is the percentage of the total flow that comes out as cold air

**Vortex Tube Capacities**

Part #	Inlet Pressure *		Air Consumption		Capacity	
	PSIG	BAR	SCFM	SLPM	Btu/H	Kcal/H
10008 / 10007	100	7	8	226	400	100
10010	100	7	10	311	640	161
10015	100	7	15	425	900	227
10025	100	7	25	708	1500	378
10035	100	7	35	991	2650	668

\* Based on an inlet temperature of 70 degree F / 21.1 degree C  
The chart gives approximate temperature drops and rises from the inlet air temperature.

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