NOTES:
1. VORTEX COOLER REQUIRES 35-40 SCFM @ 80-100PSIG, DEWPOINT < -40°F RECOMMENDED. TYPICAL CYCLE IS 20% ON.
2. UNIT HEIGHT PER FLANGE OPTIONS, +1", -4"
3. LIFTING WEIGHT: 150LBS. NOTE THAT THE EYELET IS NOT LOCATED DIRECTLY ABOVE CENTER OF GRAVITY.
4. HEATED SAMPLE LINE RECOMMENDED @ 140°F MINIMUM.
5. SAMPLE FLOW RECOMMENDED 1-4 L/M.
6. CUSTOMER I.D. TAG IF SPECIFIED ON PO. ENGRAVED STAINLESS STEEL SECURED WITH SCREWS OR RIVETS.
7. SERIAL/PART NUMBER LABEL LOCATED INSIDE ON DOOR.

PROCESS INLET PORT (NOT USED) PLUGGED WITH 1/4" BORED THRU FITTING AND CAP.
4954-0010-SW-BT
4954-0188

GATE VALVE
2" OR 3" SAMPLE BOOT SHRINK FIT TO UMBILICAL

PROCESS PIPE

CUSTOMER ID TAG

AIR INLET USER CONNECTION 1/2" TUBE

ENCLOSURE VENT

FLANGE OPTIONS:
- 2", 2.5", OR 3"
- 150#, 300#, OR 600#
- 316SS

VORTEX COOLER & MUFFLER

22"
52"

2015-
1221-PA-V

M. Walser
09/08/2015

ECON# - 5200 Convair Drive Carson City, NV 89706 PH(775)883-2500 FAX (775)883-6388
NOTES:

THE THERMOMETER EXTENDS INTO THE MAIN COLUMN AND MUST BE REMOVED PRIOR TO REMOVING THE DISC ASSEMBLY. THERMOMETER TO BE INSTALLED UTILIZING A BORED-THRU COMPRESSION FITTING FOR EASE OF REMOVAL AND PROPER SEAL.
<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
<th>Description</th>
<th>UAI Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Actuated Toggle Valve (NO)</td>
<td>1</td>
<td>Ball Valve, 2 Way, 1/4&quot; Tube</td>
<td>4955-1140</td>
</tr>
<tr>
<td>Bleed Tube 100 Micron</td>
<td>1</td>
<td>Relief Valve - 12psi</td>
<td>4955-1138</td>
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<tr>
<td>Pneumatic Timer</td>
<td>1</td>
<td>Air Relay</td>
<td>8200-1026</td>
</tr>
<tr>
<td>Pneumatic Controller With Integral Pressure Indicator Controller Output</td>
<td>1</td>
<td>Temperature Element</td>
<td>3019-1019</td>
</tr>
<tr>
<td>Temperature Dial</td>
<td>1</td>
<td>Pressure Regulator With Integral Pressure Indicator Regulator Output</td>
<td>3020-1003</td>
</tr>
<tr>
<td>Temperature Element</td>
<td>1</td>
<td>Thermometer: 1/2&quot; Stem 316SS</td>
<td>4955-1137</td>
</tr>
</tbody>
</table>

**NOTES:**

1. ALL TUBING TO BE 1/4" 316SS (UNLESS OTHERWISE NOTED). BLEED TUBE INSTALLED VERTICALLY WITH ORIFICE ON TOP.
2. ALL WETTED MATERIALS ARE STAINLESS STEEL.
3. SET PNEUMATIC TIMER TO 5 MINUTES.
4. PLUG THE REMAINING OUTPUT ON AIR RELAY W/ PLUG PN 4651-0023.
5. SET TEMPERATURE DIAL TO 65°F. SET SENSITIVITY SLIDER APPROXIMATELY 1/8" FROM THE TOP.
6. SET REGULATOR TO 40 PSI.
7. SET VORTEX TUBE 3.5 TURNS FROM BOTTOM.
8. BORED OUT FITTING 4954-0010-SW-BT

**LEGEND:**

- 2WAY BALL VALVE NORMALLY OPEN
- TUBE BY OTHERS

**TUBING BY OTHERS:**