Carbon Canister - Odor Scrubber

**Common Tank Contents**
- Sulfuric Acid
- Biodiesel
- Acetic Acid
- Transformer Oils
- Lube Oils
- Glycerol
- Polyalcohols
- Polyethers

**Advantages**
- Eliminate odors
- Protect against hydrocarbons and other caustic gases
- Protect against fluid contamination, dilution, and sedimentation
- Maintain ISO cleanliness codes
- Extend life of hydraulic, lubrication, and process fluids
- Extend MTBF and reduce O&M costs

**Features & Performance**

1. **Activated Carbon adsorbent**
   - Activated carbon is used in various pore sizes to provide maximum odor protection and filtration of harmful hydrocarbons and other by products.

2. **Valved Controlled Airflow**
   - All tank vent dryers use a series of flapper valves to control the inflow and outflow of air. This maximizes the desiccant performance and prevents desiccant contamination during exhale from tanks or reservoirs.

3. **Robust Stainless Steel Construction**
   - All Tank Vent Dryers are made of 316 stainless steel to withstand the elements and environment for decades. Viton O-Rings are also used for very harsh applications.

4. **Easy to install & use**
   - Carbon canister odor scrubbers are easy to install and can either be wall or floor mounted. Floor mounted models feature a desiccant tray or lever which allows for easy desiccant replacements in the field

**Technical Info:**

<table>
<thead>
<tr>
<th>Model</th>
<th>710</th>
<th>715</th>
<th>730</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum filling or emptying rate</td>
<td>m³/hr</td>
<td>28.9</td>
<td>62.9</td>
</tr>
<tr>
<td></td>
<td>liter/min</td>
<td>480</td>
<td>1048</td>
</tr>
<tr>
<td></td>
<td>c.f.m.</td>
<td>17</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>galls/min</td>
<td>206</td>
<td>230</td>
</tr>
<tr>
<td>Maximum fluid capacity related to desiccant content</td>
<td>m³</td>
<td>55</td>
<td>125</td>
</tr>
<tr>
<td></td>
<td>liters</td>
<td>55000</td>
<td>125000</td>
</tr>
<tr>
<td></td>
<td>ft³</td>
<td>1975</td>
<td>4431</td>
</tr>
<tr>
<td></td>
<td>gallons</td>
<td>12297</td>
<td>27593</td>
</tr>
<tr>
<td>Replacement desiccant data</td>
<td>wt. of charge</td>
<td>10.75 kg</td>
<td>20 kg</td>
</tr>
<tr>
<td></td>
<td>wt. of desiccant</td>
<td>5.6 kg</td>
<td>12.5 kg</td>
</tr>
</tbody>
</table>
**Maintenance Procedure**

1. **STEP (1)**
   - Loosen 2 bolts each side to lower container.

2. **STEP (2)**
   - Remove container.

3. **STEP (3) & (4)**
   - Side cover.

4. **STEP (3)**
   - Perforated metal cover assembly.

5. **See STEP (5)**
   - Add fresh Activated Carbon.
      - (See procedure for filling)

**Installation Procedure**

- Connect to inlet vent of the tank.
- Check Valve, 1-1/2 NPT Pipe Size.

- Bolt hole location
  - Back View.
Dimensional Info - Model 715 w/ Check Valve

- 1-1/2 NPT Male Connection
- 2 SLOTS 0.44 WIDE
- CHECK VALVE
- FLOW DIRECTION
- DETAIL A
- SCALE 0.750
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<td>1048</td>
<td>37</td>
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<tr>
<td>730</td>
<td>250</td>
<td>4163</td>
<td>147</td>
</tr>
</tbody>
</table>

**Air Inlet**
- 3” ANSI Flange (Model 730)

**Mounted Hardware**

**Exit Outlet - Remote mounted**

**Disabled Vent**

**Desiccant Cartridge**

**Desiccant Empty Port**

- **Maximum filling or emptying rate**
- **Maximum fluid capacity related to desiccant content**
- **Replacement desiccant data**
BREATHERS & DRYERS: CARBON CANISTER

Dimensional Info - Model 730 w/ remote plumbing & CV

CHECK VALVE, 1/8 CRACKING PRESSURE, 3 NPT MALE, 316 STAINLESS STEEL

CLASS 150 FLANGE LOW-PRESSURE 3 PIPE SIZE, 7-1/2" OD 316/316L STAINLESS STEEL

CUSTOMER TO ASSEMBLE AT INSTALLATION

316 STAINLESS STEEL, HIGH TEMPERATURE CHEMICAL RESISTANT BRAIDED HOSE FLEXIBLE, 3 X 3 NPT MALE FITTINGS, 36 INCH LG.

BOTTOM VIEW MOUNTING HOLE LOCATION HOSE REMOVED FOR CLARITY

SIDE VIEW

CLASS 150 FLANGE CENTER

21.24

20.00

14.00

9/16 3-PACES

5.00

20.00

22.00

2.00

.75

10.00

54.69

20.50

33.33

22.00

26.69

31.30

54.69

20.00

14.00

316 STAINLESS STEEL, HIGH TEMPERATURE CHEMICAL RESISTANT BRAIDED HOSE FLEXIBLE, 3 X 3 NPT MALE FITTINGS, 36 INCH LG.

FRONT VIEW

SIDE VIEW

54.69
How do they work?

Option 1 - Vent to atmosphere

1. During tank filling, air will exit through the top of the tank’s vent pipe and down into the carbon canister odor scrubber

2. As the air passes through the scrubber, odors and hydrocarbons will be filtered leaving clean air to vent to atmosphere

Option 2 with Remote Venting

1. During tank filling, air will exit through the top of the tank’s vent pipe and down into the carbon canister odor scrubber

2. As the air passes through the scrubber, odors and hydrocarbons will be filtered leaving clean air to vent to a remote location.
BREATHERS & DRYERS: CARBON CANISTER

Dual System - Vent Dryer & Odor Scrubber

**Model 715 Parallel System - Vent Dryer & Odor Scrubber - PN: 1DT75500**

Tank Vent Dryer 715 Dual System
Part Number 1DT75500

**Tank Vent Dryer 715**
1DT74600-V2-MS
Molecular Sieve

**Tank Vent Dryer 715 Odor Scrubber**
1DT4600-V4-AC
Activated Carbon

**Model 730 Parallel System - Vent Dryer & Odor Scrubber - PN: 1DT75700**

Tank Vent Dryer 730 Dual System
Part Number 1DT75700

**Tank Vent Dryer 730**
1DT74200-V2-MS
Molecular Sieve

**Tank Vent Dryer 730 Odor Scrubber**
1DT4200-V4-AC
Activated Carbon
Optional safety & check valves

WARNING - Safety check/relief valves MUST be installed in flow orientation shown

Tank Vent Dryer 730
Part Number 1DT74200-V2-MS-CV2
(Inhale only with flapper, disabled TVD vent, safety check / relief valves).

Tank Vent Dryer 715
Part Number 1DT74600-V2-MS-CV1
(Inhale only with flapper, disabled TVD vent, safety check / relief valves).
Tank Vent Dryer Ordering - Part Number Selector

**Example Part Number: 1DT74200-V1-MS-CV**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Version</th>
<th>Media Selection</th>
<th>Check Valve</th>
</tr>
</thead>
<tbody>
<tr>
<td>1DT74200</td>
<td>-V1</td>
<td>-MS</td>
<td>-CV</td>
</tr>
</tbody>
</table>

**Choose part number**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1DT74200</td>
<td>Model 730 Tank Vent Dryer, Floor Mounted, Refillable</td>
</tr>
<tr>
<td>1DT74600</td>
<td>Model 715 Tank Vent Dryer, Wall Mounted, Refillable</td>
</tr>
</tbody>
</table>

**Choose version number**

<table>
<thead>
<tr>
<th>Version</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-V1</td>
<td>Inhale only w/ flapper, TVD vent cap open</td>
</tr>
<tr>
<td>-V1P</td>
<td>Inhale only w/ flapper, TVD vent cap open, w/ plumbing</td>
</tr>
<tr>
<td>-V2</td>
<td>Inhale only w/ flapper, disabled TVD vent</td>
</tr>
<tr>
<td>-V2P</td>
<td>Inhale only w/ flapper, disabled TVD vent, w/ plumbing</td>
</tr>
<tr>
<td>-V3</td>
<td>Inhale &amp; exhale only w/o flapper, disabled TVD vent, w/ plumbing</td>
</tr>
<tr>
<td>-V4</td>
<td>Exhale w/o flapper, w/ check valve, disabled TVD vent</td>
</tr>
<tr>
<td>-V4P</td>
<td>Exhale w/o flapper, w/ check valve, disabled TVD vent, w/ plumbing</td>
</tr>
</tbody>
</table>

**Choose media selection**

- **MS** Molecular Sieve
- **AC** Activated Carbon

**Choose valve selection**

- **CV1** Check Valve
- **CV2** Safety Check/Relief Valve (2 Required)

---

**WARNING**

- -V2 only to be used in parallel system 1DT75500. In order to prevent catastrophic back pressure, system design MUST include safety check / relief valves.

**Tank Vent Dryer - Model 730**

Part Number: 1DT74200-V1P-MS

*WARNING*

- -V2 and -V2P only to be used in parallel system 1DT75700 in order to prevent catastrophic back pressure, system design MUST include safety check/relief valves.