

# CONDENSATE TREATMENT SOLUTIONS

*Leading Innovation in  
Compressed Air Treatment*

**CTS SERIES**

**ELIMINATOR II™**

**OIL WATER**

**SEPARATORS**



# Condensate Treatment Solutions

*for a Cleaner Environment and Reduced Disposal Costs*

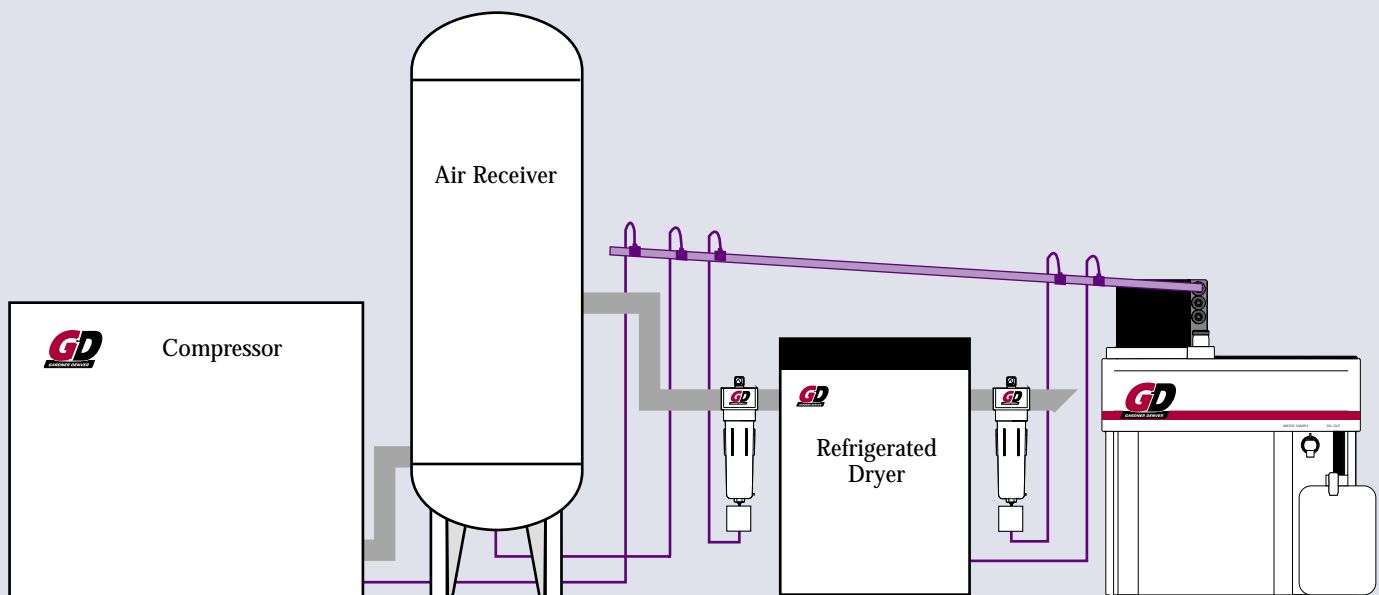
The new CTS Eliminator II has been designed as an effective and reliable means of treating lubricant contaminated compressor condensate.

Compressed air is discharged at elevated temperatures in a saturated condition. Any cooling which takes place through aftercoolers, dryers, or pipelines cause the water vapor to condense into a liquid form, which then mixes with any oil carryover of a machine. This contaminated condensate cannot be disposed of into sewer systems, or onto the ground, without being properly treated.



Untreated condensate can have detrimental effects on the environment and is illegal to dump into sewer systems or onto the ground.

## Typical System Configuration



# Did You Know...?

Not all lubricants are created equal? Even lubricants of the same base stock perform differently, depending upon the additives used. This becomes especially important when trying to separate lubricant from condensed water in a compressed air system.



That is why Gardner Denver has custom engineered our lubricants to give you maximum performance. AEON™ lubricants provide extra value in dollars you can see.

Our superior demulsibility enhances overall system performance from compressor operation to condensate disposal. Many competitive lubricants take longer to separate, thus requiring larger oil/water separators at higher costs. Using the Eliminator II with AEON lubricants saves you big money up front and over the life of the system.

Let us show you how we can provide more value for less!

| MODEL  | MAX CFM CAPACITY |            |
|--------|------------------|------------|
|        | 90°F/90%RH       | 70°F/70%RH |
| CTS15  | 150              | 357        |
| CTS30  | 300              | 714        |
| CTS60  | 600              | 1428       |
| CTS120 | 1200             | 2856       |
| CTS180 | 1800             | 4284       |
| CTS240 | 2400             | 5712       |

*Ratings based on rotary screw air compressor operating on AEON 9000 SP. Ratings may be increased by 25% if a refrigerated air dryer is not used. Please consult your Gardner Denver distributor for proper sizing when using other types of lubricants or compressors. Eliminator II is not recommended for use with emulsifying lubricant such as Polyglycol, ATF, or Motor Oil lubricants with heavy additive packages.*

# Eliminator II

## Features/Benefits

- ♦ **Designed & Rated for Real Life Summertime Conditions** – 90°F 90% RH
- ♦ **Reduced Maintenance** – 40% longer service life than most competitive units
- ♦ **Vaccu-Break Conduit** – (CTS60 & Above) & carbon bed handles (CTS30 & above) for easy carbon changeout
- ♦ **Pop Up Indicator** – Stores evidence of restricted flow conditions until manually reset
- ♦ **Unique Pre-Absorption Filter** – Breaks contaminate formed emulsions

## Accessories

- ♦ **DISTRIBUTOR** – Used to collect and evenly distribute flow into multiple units; also recommended for use with high capacity demand drains to protect Eliminator II from large condensate surges



- ♦ **Remote Flow Indicator** – For remote alarming of a reduced flow condition
- ♦ **Level Minder** – Remote indication of when oil container needs replacement
- ♦ **Heater** – For use when ambient temperatures are subject to freezing



# Eliminator II

**Inlet Diffuser** rotates at 90° intervals & has 3 condensate inlets for maximum installation flexibility

**Sample Test Jars** (2) for a quick visual check of water-out vs. standard tap water; if the water out is cloudy, carbon needs replacement

**Suspended Carbon Bed** handles (CTS30 and larger) assist in carbon replacement

**Pre-Absorption Chamber** Unique material breaks contaminate formed emulsions, allowing for more efficient separation

**Separation Filter** coalesces small oil droplets into larger ones allowing them to float freely on the surface

**Pop-Up Flow Indicator** identifies restricted flow condition; stays up until manually reset

**Sediment Chamber** collects rust & scale, avoiding carbon fouling; removable chamber for easy cleaning

**Water Outlet Port** located in back of unit to easily pipe into drain

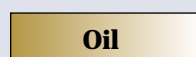
**Oil Outlet Tube** is fully adjustable to precisely set the depth of the lubricant level for optimum performance

**Sample Valve** is conveniently located and samples condensate from 2/3 into the carbon depth - allows time to re-order carbon replacement, while remaining within the legal limit

**Large Vessel** for maximum residence time

**Wider Carbon Bed** with up to 40% more carbon provides extended service intervals and improved performance in hot, humid summertime conditions

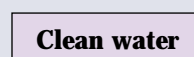
**Translucent Oil Container** comes standard and allows for easy oil disposal



Oil

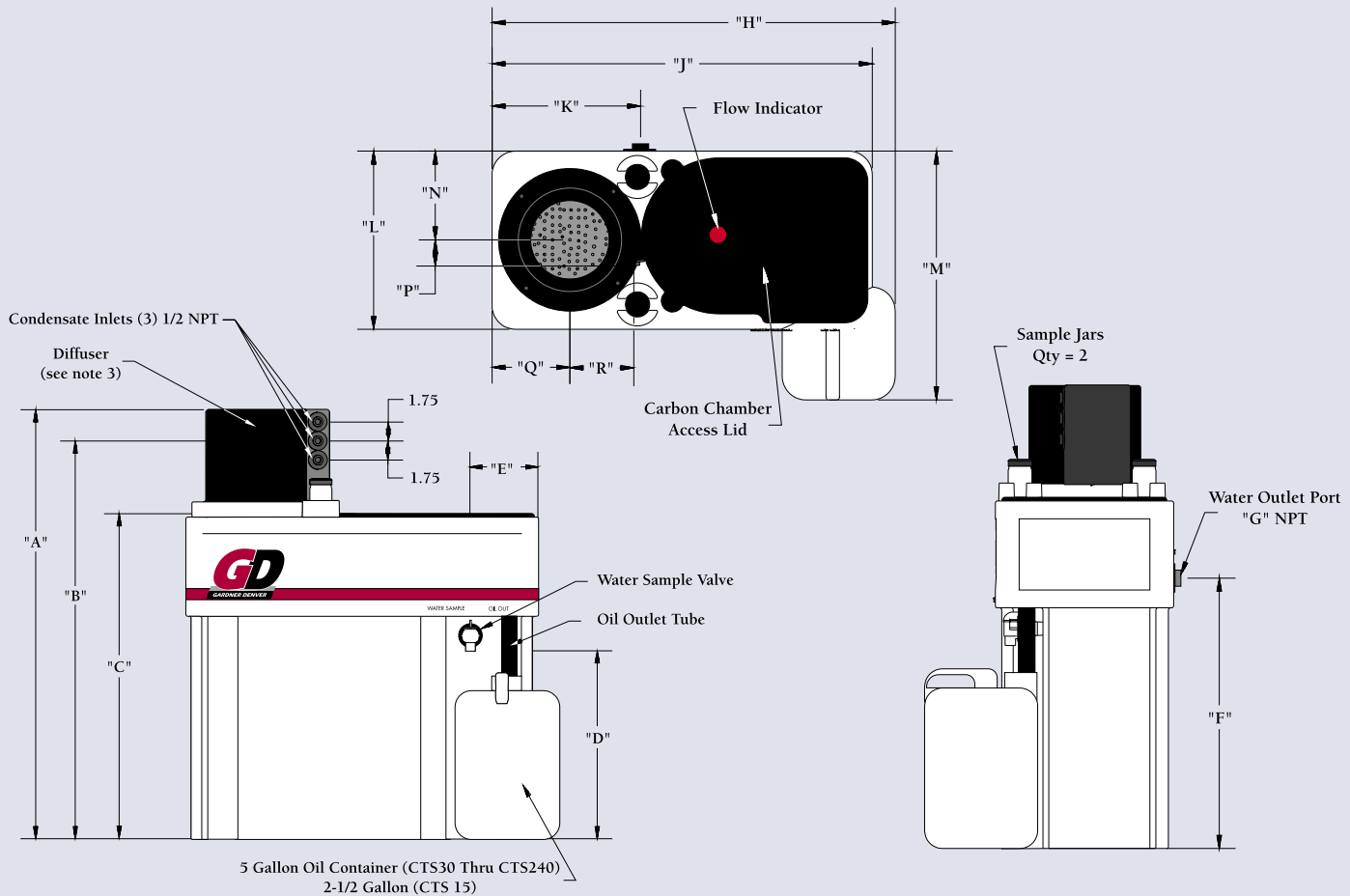


Contaminated water



Clean water

# Dimensional Data



## DIMENSIONAL SYMBOL

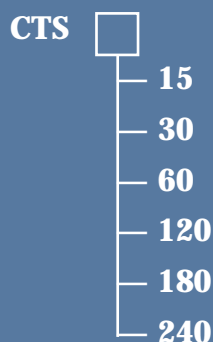
| SIZE   | A     | B     | C     | D     | E    | F     | G    | H     | J     | K     | L     | M     | N    | P    | Q     | R    |
|--------|-------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|-------|------|------|-------|------|
| CTS15  | 29.75 | 27.00 | 20.75 | 11.25 | 5.25 | 16.00 | .75  | 26.50 | 26.00 | 9.00  | 14.00 | 19.50 | 4.50 | 2.75 | 4.50  | 4.00 |
| CTS30  | 39.00 | 36.25 | 29.75 | 17.00 | 6.25 | 22.75 | .75  | 34.00 | 32.00 | 12.50 | 15.00 | 21.00 | 7.50 | 3.50 | 6.50  | 5.25 |
| CTS60  | 39.00 | 36.25 | 29.75 | 17.00 | 5.25 | 23.00 | 1.00 | 35.00 | 32.00 | 22.00 | 26.50 | 30.75 | 6.00 | 3.50 | 13.50 | 5.25 |
| CTS120 | 39.00 | 36.25 | 9.75  | 17.00 | 5.25 | 23.00 | 1.00 | 72.00 | 32.00 | 22.00 | 26.50 | 30.75 | 6.00 | 3.50 | 13.50 | 5.25 |
| CTS180 | 39.00 | 36.25 | 29.75 | 17.00 | 5.25 | 23.00 | 1.00 | 109.0 | 32.00 | 22.00 | 26.50 | 30.75 | 6.00 | 3.50 | 13.50 | 5.25 |
| CTS240 | 39.00 | 36.25 | 29.75 | 17.00 | 5.25 | 23.00 | 1.00 | 146.0 | 32.00 | 22.00 | 26.50 | 30.75 | 6.00 | 3.50 | 13.50 | 5.25 |

**NOTES** **Note 1:** All dimensions are in inches, **Note 2:** Tolerances - all dimensions are +/- .50 unless otherwise shown,

**Note 3:** Diffuser is rotatable in 90 degree increments **Note 4:** When properly maintained, the Eliminator II will have discharge water containing less than 15 ppm of oil remaining

|                         | CTS15 | CTS30 | CTS60 | CTS120 | CTS180 | CTS240 |
|-------------------------|-------|-------|-------|--------|--------|--------|
| <b>Weight in pounds</b> | 53    | 77    | 120   | 240    | 360    | 480    |

# Ordering Information



# Maintenance Kits

Convenient Pre-Packaged Filter Kits include Expansion Chamber Elements, Separation Filters, Pre-Absorption Filters, and Carbon Beds

| MODEL # | MAINTENANCE KIT P/N |
|---------|---------------------|
| CTS15   | 7024364             |
| CTS30   | 7024365             |
| CTS60   | 7024366             |
| CTS120  | 7024367             |
| CTS180  | 7024368             |
| CTS240  | 7024369             |

# Recommended Accessories

| DESCRIPTION  | PART #  |
|--|---------|
| DISTRIBUTOR - Condensate Management System           | 7003107 |
| Remote Flow Indicator                                | 7024378 |
| CTS15 Level Minder Oil Container Alarm System        | 7024379 |
| CTS30/60 Level Minder Oil Container Alarm System     | 7024380 |
| .5 KW Heater for CTS15                               | 7024381 |
| 1 KW Heater for CTS30/60 (2 each required for CTS60) | 7024382 |

# Other Innovative Products



## FIL SERIES

### High Efficiency Filters

A full range of filters 20-21,250 cfm; coalescing, particulate, and activated carbon for the removal of water, oil, and particulates from compressed air.



## DS2 SERIES

### Evacuator Drain Valves

A full family of zero air loss, energy efficient demand drains. Ruggedly designed to effectively and reliably prevent moisture damage to dryers, air tools, gauges, and other critical components.



## 9VXRD SERIES

### Refrigerated Dryers

A full line of high quality refrigerated dryers with features and benefits unmatched by the competition. Designed to produce dew points as low as 38°F in compressed air.



## DGH SERIES

### Desiccant Dryers

A complete line of desiccant dryers for the removal of water vapor in compressed air to dew points as low as -100°F

# Gardner Denver

Specifications subject to change without notice.

<http://www.gardnerdenver.com>

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