Condensate Treatment Solutions

CTS Series Eliminator II™ Oil-Water Separators

GD
GARDNER DENVER™

Experience Proven Results™

Condensate Treatment Solutions

A Cleaner Environment & Reduced Disposal Costs

Compressed air is compressed and discharged at elevated temperatures in a saturated state. As the air cools through aftercoolers, dryers, or pipelines, the water vapor condenses into a liquid form which then mixes with the normal oil carryover from the compressor. The condensate becomes contaminated by the oil and must be treated before expelling it into a sewer system or onto the ground. The oil must be separated from the condensate and only the condensate can be expelled. The oil must be reclaimed and disposed of in an environmentally safe manner.

The CTS Eliminator II

Designed as an effective and reliable means of treating lubricant-contaminated compressor condensate, the CTS Eliminator II separates oil for easy disposal.

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

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.

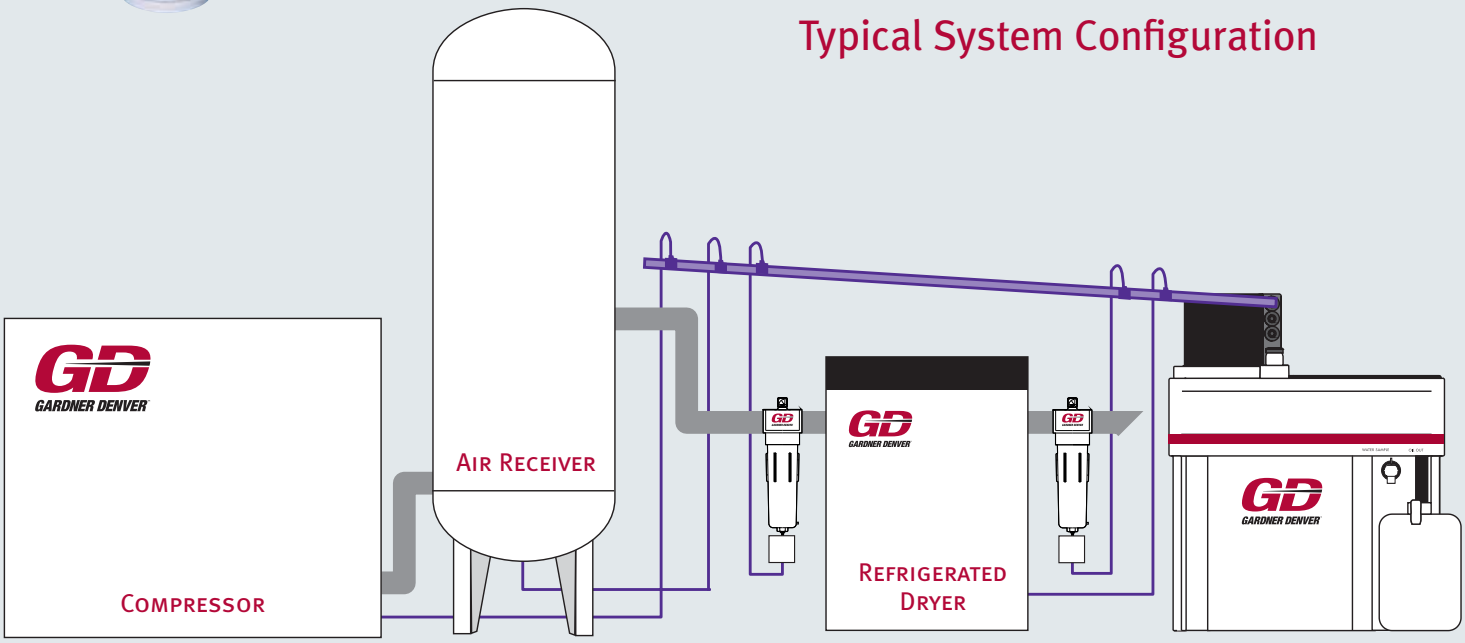
Our AEON lubricants have superior demulsibility which enhances the overall system performance from the compressor's operation to the condensate disposal. Many competitive lubricants take longer to separate, thus requiring larger oil/water separators at higher costs. Using the Eliminator II with AEON 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 9000SP. 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.

Typical System Configuration



Leading Innovation in Compressed Air Treatment

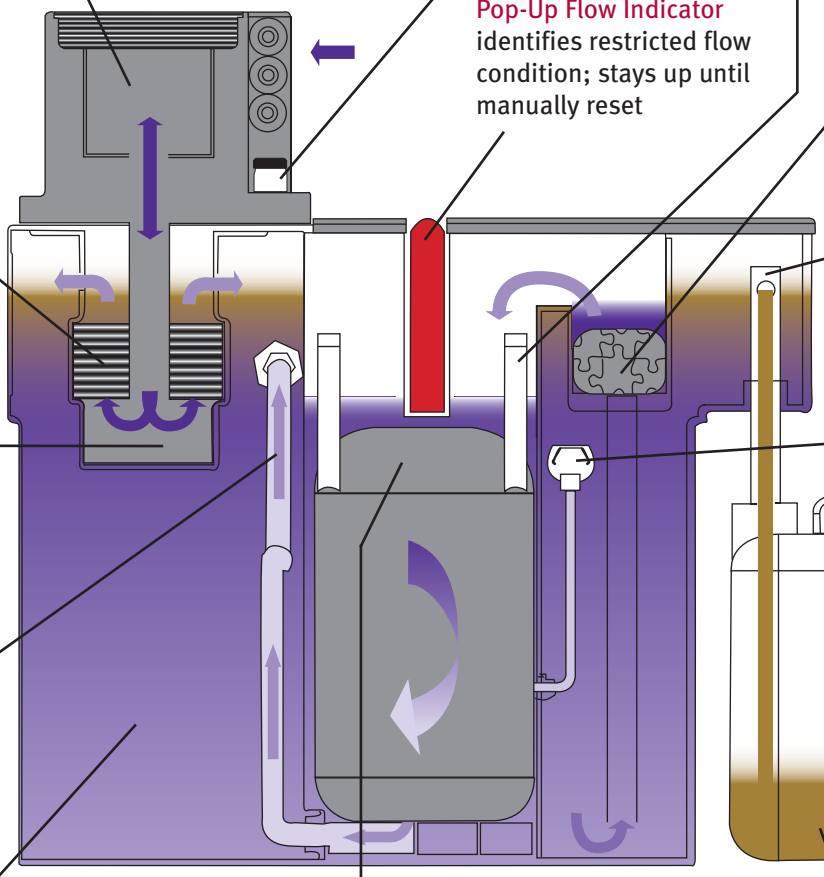
Features/Benefits

- Designed & Rated for Real Life Summertime Conditions: 90° F and 90% RH
- Reduced Maintenance: 40% longer service life than most competitive units
- Vaccu-Break Conduit: (CTS60 & above) and carbon bed handles (CTS30 & above) for easy carbon change out
- 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

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

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

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

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

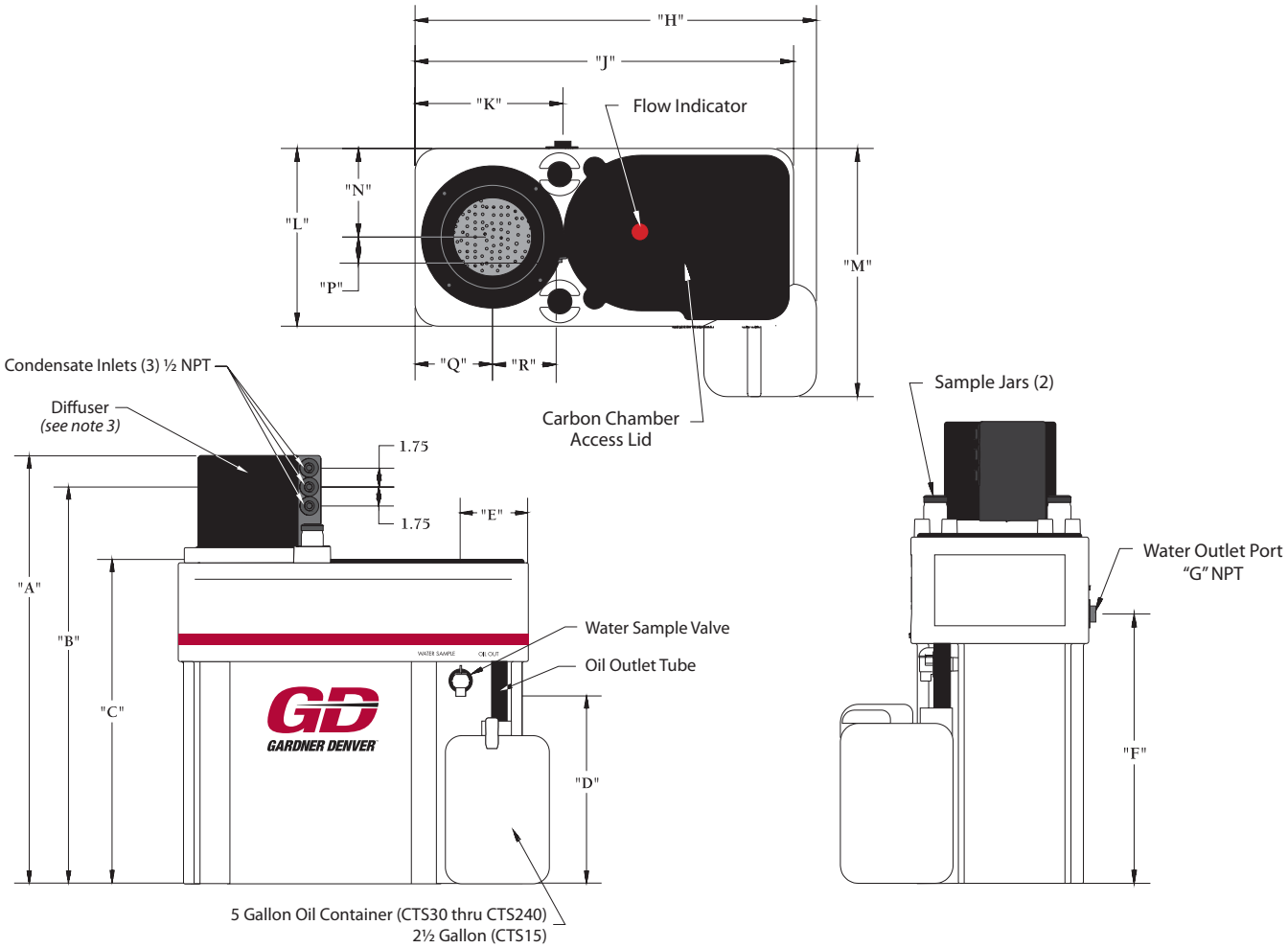
Large Vessel for maximum residence time

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



SIZE	DIMENSIONAL SYMBOL															
	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

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

Model	CTS15	CTS30	CTS60	CTS120	CTS180	CTS240
Weight in pounds	53	77	120	240	360	480

Eliminator II Support

Ordering Information

CTS ☐
- 15
- 30
- 60
- 120
- 180
- 240

Ambient temperature: +32–120° F
Inlet temperature: 120° F

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
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.

RNC 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®

www.GardnerDenverProducts.com

Gardner Denver, Inc. 1800 Gardner Expressway, Quincy, IL 62305
www.contactgd.com/compressors
866-440-6241

©2014 Gardner Denver, Inc. Printed in U.S.A. GA-CTS-100 1st Ed. 1/14

Please recycle after use.