Eliminator Troubleshooter

Oil/Water Separator



Benefits & Savings

- Troubleshooter, is designed to effectively separate emulsified compressor condensate to levels of 15 PPM or less without premature element failure and backup spillages.
- Delivery system, (patent pending) has a pneumatically operated pump that is used to feed the filter module. The use of the pressure assures the filter will not clog.
- Increased media's ability, up to four times the amount of oil that standard activated carbon can hold. This is due to the alumino silicate is coated with hydrophobic compound (patent pending).
- Improved efficiency, system only requires compressed air to operate the diaphram pump.
- Same delivery system is used for each filter module. Expanding air system may only require a larger filter module.

GARDNER DENVER'S SOLUTION FOR SAFELY DISPOSING OF AIR COMPRESSOR CONDENSATE

Traditional gravity type separators do very well in separating oils that have good separation characteristics. However, many compressor oils do not fully separate. These types of oils, known as emulsions, tend to foul-up the carbon filters as well as the preabsorption and coalescing medias that are commonly installed in front of the carbon filters. Those filters have to be replaced before their capacity is fully used. This is a result of oil binding off the pore area of the carbon where the condensate first comes in contact with the filter. The jelled oil clogs the filter, which then prevents the volume of condensate from properly flowing through the filter. This premature failure of the carbon filters most often results in the system backing up on the floor.

Troubleshooter

- Separates Emulsified Oils
- Low Maintenance Costs
- Only Two Moving Parts
- Fully Automatic
- Non-Corrosive Materials
- Extended Filter Life
- Non-Clogging Filter Design
- Effortless Maintenance Procedures



Operation

The condensate enters the diffuser chamber (1) where it is depressurized. The oily condensate then enters a main reservoir (2) where gravity separation occurs. Any oil that floats to the surface is skimmed off through an adjustable oil weir (3). The condensate then moves to a separate chamber through a pick-up tube (4). As the condensate accumulates in the next chamber, a float (5) rises with the level of condensate. The float is connected to a ball valve (6) by a lever arm. The increased level of condensate causes the float to rise and open the ball valve. As the valve opens, the air-operated pump (7) is allowed to push the condensate out to the filter module (8). If the level of condensate continues to rise, the float also rises and further opens the ball valve. This results in additional condensate being pushed to the filter module. Thus, the system will self adjust to the quantity of condensate entering the system. This system assures maximum contact time for the filter module.

Ordering Information

Madal	Description						
Model	Delivery System cfm	Filter Gallons					
CTS-T15	125-250	15					
CTS-T30	250-560	30					
CTS-T55	560-1125	55					

Filter Replacements

Part #	Description			
7037093	Troubleshooter 15 gal. filter			
7037094	Troubleshooter 30 gal. filter			
7037095	Troubleshooter 55 gal. filter			



The troubleshooter is the most economical and efficient way to separate emulsified, slowly demulsible, or high volume condensate loads. Determine the highest cfm flow possible with the application, then make your selection of the appropriate unit size.

Specifications

Inter-connecting fittings and hoses are supplied for connecting the delivery system to the filter modules.

Max	CFM@ 20 psi		Dimensions (in)			1)	Inlet		Oil	Container	Pump	
gpm			Н	C)	w	npt		Out		Material	Material
0.9	(0.35	38	1	6 3	24	1⁄2" (3)		3/4"	Polypro.	Acetal/ Viton
Filter		Max	Max C	Dim	Dimensions (in)			ilet	H Water	Container	Weight	
Modu Galloi	le ns	hp	Capacity Gallons	ity 15	н	D	w	(in)	Out (in)	Material	lbs
15		50	5		20	15	15	3	3/8	3/4	Polyethyl	. 90
30		100	12		29	19	19	3	3/8	2	Polyethyl	. 200
55		200	24		33	23	23	3	3/8	2	Polyethyl	. 400

*Note: when properly maintained, the troubleshooter will have discharge water containing less than 15 ppm of oil remaining.

A Troubleshooter filter module could last 12 months in a Rotary Screw application. However, filter life may be less due to lubricant, compressor type, and maintenance. Reduce cfm ratings by 50% for reciprocating compressors with lubricators.

Not recommended for Food Grade or Silicone based lubricants. All design specifications are subject to change without notice.



www.GardnerDenverProducts.com

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