

# absorbALL Oil/Water Separators

The reduction of pollution and effluent is of vital concern in today's industrial environment. The consequence of unlawful pollution or contamination affects us all in the future of our environment and the way we run our businesses. Ultrachem has helped develop the **absorbALL** family of oil/water condensate separators to help businesses meet local, state and federal regulations while profitably reducing the amount of effluent generated from their compressed air systems.

Ultrachem has five models of our successful oil/water separators that are useful as an add-on system to your current air compressor system. These **absorbALLs** will remove the excess oil from the large amount of water generated when air is compressed. In many cases, reducing the oil to levels below 100 ppm will allow the remaining water to be disposed of in a sanitary sewer. Your local sewer district can help supply guidelines on local regulations.

Our many years of manufacturing air compressor oils with a variety of petroleum and synthetic formulations gives Ultrachem unique experience in being able to separate the oils from the water. The **absorbALLs** may be successfully used with any oil currently used in an industrial air compressor application.



## AbsorbALL Features

- ◆ **Automatic**—No electricity or heat required to work. Units should not be placed in an area where it is likely to freeze.
- ◆ **Energy Efficient**—No moving parts.
- ◆ **No Bacteria**—No stagnant water means no bacteria buildup. Avoid the use of oil/water separators that incorporate large settling tanks, as they can generate harmful bacteria or molds due to stagnate water.
- ◆ **Built-in Depressurization Chamber**—Use with autodrains, timer controlled drains, intelligent drains or manual drains. Will accept blowdown pressures to 250 psi in most cases.
- ◆ **Safe**—Thermal units heat condensate and release harmful vapors into the air, use energy, and cost many times more to purchase and maintain.
- ◆ **Easy Model Sizing**—Sizing is based on the cfm output of the compressors. Selection of the appropriate poly-element bag is based on the chemistry of the oil. If the compressor is using a PAG (polyglycol type coolant), there is a poly-element bag for that purpose, and the cfm rating for each unit is reduced. **Note: We have found that large reciprocating compressors, particularly double-acting recipcs, generally send more oil downstream, and that results in shorter bag life, as the bags can only absorb so much oil.** There is no need to worry about diminished capacity with humidity increases.
- ◆ **System Expansion**—In many cases the **Model 750** and **1250** allow for increases in capacity for the future. Adding on the **absorbALL Extender** can double the capacity. The **Extender** may be positioned to the front or side.
- ◆ **UPS & FedEx Shipping**—The smaller **Enviro** and the **Model 520** easily ship by UPS or FedEx.

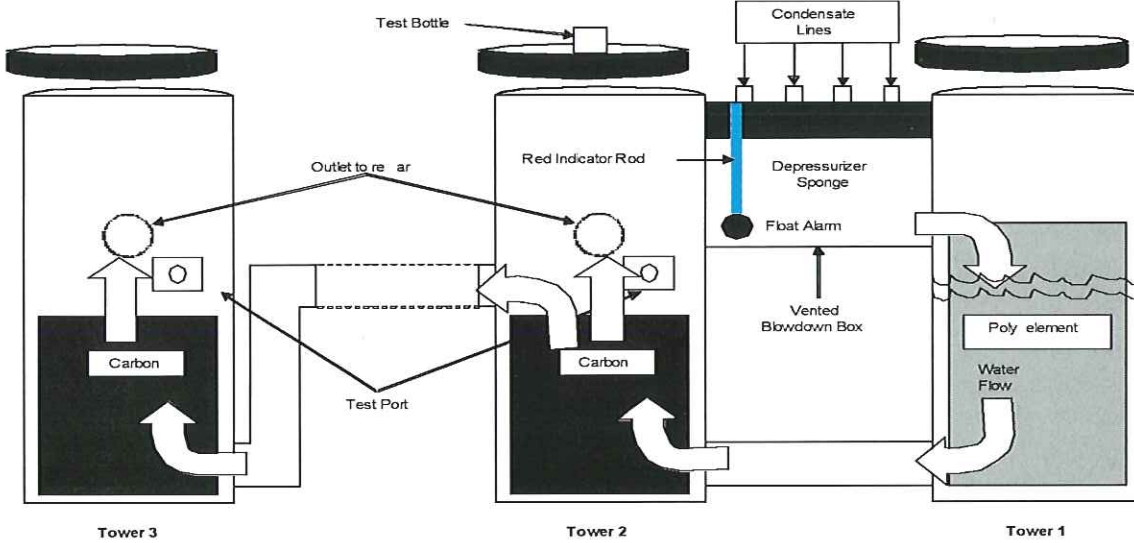
## How absorbALLs Work

The absorbALLs utilize a unique patented poly-element filter that acts as the primary filter to remove and absorb the bulk of the oil in the condensate. Different poly-elements treated with different proprietary chemicals are used for polyglycol (PAG) coolants.

The condensate then moves through a carbon filter media that acts as a polishing stage and removes all oil down to 20 ppm. The life of the filters is directly related to the amount of the oil in the condensate.

**absorbALL Extender**

**absorbALL 1250**



	<b>Enviro</b>	<b>520</b>	<b>750</b>	<b>1250</b>	<b>Extender</b>
Target output value	<20 ppm	<20 ppm	<20 ppm	<20 ppm	<20 ppm
Activated carbon elements	1 each	1 each	1 each	1 each	2 each
Inlet connections	¼", 3/8", ½" (3 total)	½" (2 ea)	½" (2 ea)	½" (4 ea)	½" (2 ea)
Outlet connection	½"	½"	½"	½"	½"
TEST valve	yes	yes	yes	yes	yes
Service drain	yes	yes	yes	yes	yes
Overflow Indicator	no	yes	yes	yes	yes
Housing material	PE	PE	PE	PE	PE
Total recyclable	yes	yes	yes	yes	yes
Polyglycol coolants	no	yes*	yes*	yes*	yes*
Max. compressor capacity**	65 cfm	300 cfm	750 cfm	1250 cfm	1500/2500 cfm
Dimensions (inches)					
Height	27.75	26.20	38	45.47	34.43
Width	10.25	27.56	32	41.00	34.05
Depth	10.75	11.81	16	17.12	15.35
Weight (pkg.w/out pallet)	11 lbs	50 lbs	109 lbs	130 lbs	84 lbs

**Typical absorbALL Properties**

All absorbALL models can accept condensate discharge from intelligent drains, timer drains, float drains and manual drains. Additional condensate can be manually added.

Capacity may be less with ATF, Polyglycol, or Silicone.

\* A special polyelement is required for removal of polyglycol coolants. \*\*Capacity at 125 psi. Higher pressures may create more stable emulsions and make separation more difficult or impossible.