



Air Compressor Condensate White Paper

Did you know it is unlawful to drain your air compressor condensate directly to the sewer without first treating it for harmful contaminants?

The Clean Water Act of 1970 created the Environmental Protection Agency (EPA) which is currently enforcing its regulations to maintain a safe and green environment.

Title 40, Part 279 of the Code of Federal Regulations dictates the Rules Governing Proper Handling and Disposal of Used Oil. These rules specify that there can be no more than 40 ppm oil in the waste water drained to sewers.

Some local regulations are even stricter, depending upon a municipality's ability to treat the wastewater at the local level.

Most compressor condensate contains a minimum of 300 ppm of oil, so dispensing it directly to your drain is a thing of the past, as you face large fines if your facility is inspected.

Treating condensate waste on site is simple and effective utilizing the Muscle™ Compressor Coalescer's gravity separation method.

This simple method of separation requires no fancy, expensive replacement filters, yet effectively treats most compressor condensate to comply with the EPA's standard as well as those of many local industrial treatment facilities.



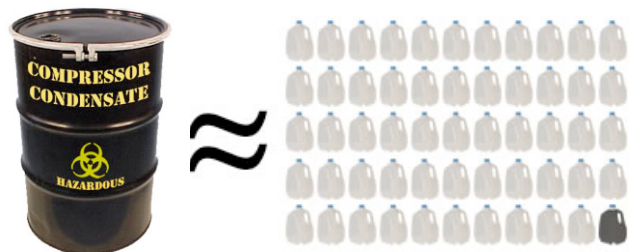
Zebra Muscle lowers wastewater costs up to 98%:

- Condensate is mostly water. Expect a 50:1 ratio, 50 parts water to 1 part oil (or just 1 gallon of oil in a 55 gallon drum of condensate).
- Air systems can produce an enormous amount of condensate each day. A 100 HP compressor operating in a climate of 70°F with 80% humidity generates 2 gallons of condensate each hour.
- Disposal companies charge between \$150 to \$250 to dispose of a 55 gallon drum of compressor condensate.

The savings are considerable if you separate your condensate on site, paying only to dispose of the oil:

- If you use the numbers above, a 100 HP compressor, operating 24 hours, will produce a minimum of 48 gallons of condensate a day and only 0.96 gallons of this is oil. It will take you 57 days to accumulate (1) 55 gallon drum of oil with a minimum disposal cost of \$150.

In that same 57 days, without separation, you will accumulate almost (50) 55 gallon drums of condensate with a minimum disposal cost of \$7,500. The Muscle saves you over \$7,000 in disposal cost during 2 months of operating!



Contact Zebra today for more information on the Muscle Compressor Coalescer and how it will minimize your condensate waste stream and treat it effectively to comply with EPA and local municipality regulations!