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ThermaPhase

Oil/Water Separator

FOR COMPRESSOR CONDENSATE



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Every day we are bombarded by the media with dire predictions concerning the greenhouse effect, the depletion of the ozone layer, the consequences of burning the rain forest and any number of other potential major environmental disasters. In most cases, the problem is of such magnitude we feel helpless in trying to solve the problem.

However, there is an environmental problem much closer to home upon which you can have a very positive effect. Many air compressors produce oily condensate that is allowed to either run on the ground or is put to the sewer. This condensate, if left untreated, fouls the environment or creates a significant treatment problem.

In many cases, the solution is as easy as running the condensate through gravity separators and a carbon filter before dumping the water. When the nature of the lubricant is such that it forms a stable emulsion or is difficult to separate, then another method must be used to accomplish the task. ThermaPhase was developed to solve this problem.

ThermaPhase handles a broad variety of synthetic (polyglycol, diester, synthetic hydrocarbons, silicone, polyester and mixtures thereof) and petroleum based compressor lubricants. ThermaPhase should not be used on lubricants containing significant quantities of phosphate esters.

ThermaPhase is a positive action solution to the problem of safely disposing of air compressor condensate.

The ThermaPhase unit is a thermostatically controlled, electrically heated evaporation unit that separates air compressor condensate from spent compressor lubricant. The condensate water leaves the unit as atmospheric steam and the lubricant is periodically drained from the unit.

ThermaPhase offers an economical alternative to having your condensate hauled away by a licensed disposal company. Determine the volume of condensate generated and check your savings from the Table...Annual Savings With ThermaPhase. The ThermaPhase heating elements and control mechanisms utilize off-the-shelf components which simplifies spare parts replacement.

Special Design Features

The ThermaPhase unit utilizes special low density heating elements for long life and low maintenance. The heating elements are staged to go on and off sequentially. (Time of sequence between elements is variable but fixed by design.) When the operating temperature is reached, only the number of elements required to maintain operation are on. This system minimizes power surges, helps balance the load and reduces power consumption. There is a low level cut-off switch which provides protection for the heating elements which must be completely submerged whenever they are on.

The internal vaporization chamber is fabricated from stainless steel to eliminate rust and provide long term service.

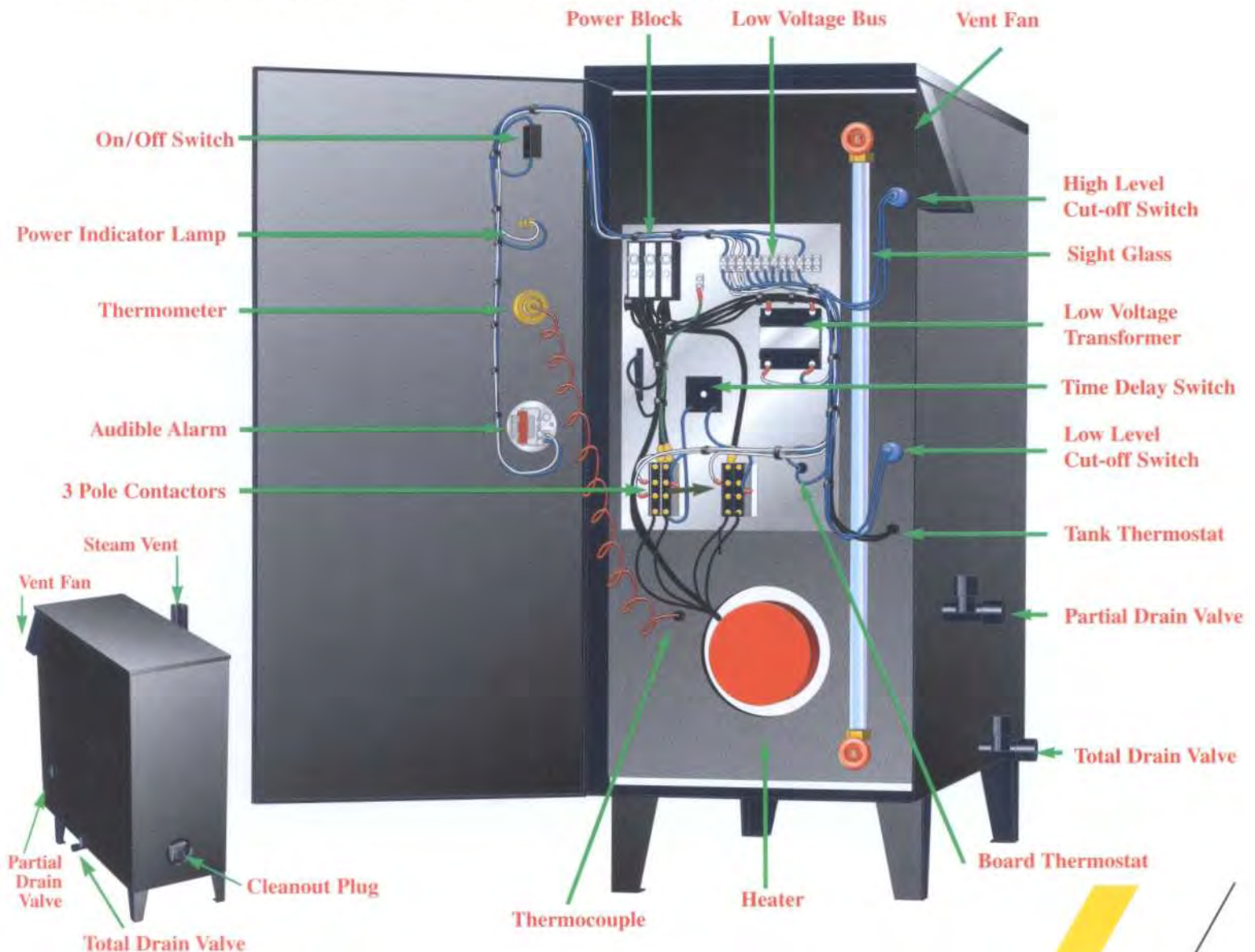
Special consideration has been given to the safe performance of this unit. There is an internal dip leg in the vent line to provide pressure relief should the vent become accidentally blocked.

The high level alarm/cut-off switch provides positive notification that the unit is full and needs to be drained. There is a 4 inch clean out plug in the back of the unit for convenient cleaning of the internal chamber and heating element every six months. There is also a sight glass to allow the operator to monitor performance of the unit and decide when to drain the unit.

A thermometer is provided to monitor the operating temperature and determine when the lubricant has cooled to a safe temperature for draining. There are two thermostats for overheating protection and two drain valves for partial and total draining on the unit.

The ThermaPhase utilizes high efficiency insulation to conserve energy and provide a safe physical environment. Over 90 percent of the energy input is utilized to convert condensate to steam.

ThermaPhase provides you with a safe, positive solution to a persistent problem.



THERMAPHASE CAPACITY/UTILITY CHART

Model No.	Capacity Lbs./Hr Gals/Hr		KW	Amps	Volts	Shipping WT	Phases	Dimensions H x L x W
TP-6	15.8	1.9	6	11	480	546	3	48 1/8 x 46 1/8 x 20 3/8
TP-12	34.2	4.1	12	19	480	550	3	48 1/8 x 46 1/8 x 20 3/8
TP-18	51.6	6.2	18	21.7	480	618	3	48 1/8 x 46 1/8 x 24 3/8
TP-24	69.1	8.3	24	28.9	480	624	3	48 1/8 x 46 1/8 x 24 3/8
TP-36	104.1	12.5	36	43.4	480	633	3	48 1/8 x 46 1/8 x 24 3/8
TP-54	156.6	18.8	54	65.0	480	819	3	48 1/8 x 46 1/8 x 44 3/8
TP-72	209.1	25.1	72	86.7	480	834	3	48 1/8 x 46 1/8 x 44 3/8

The ThermaPhase Advantage

- All weather operation
- No carbon disposal problem
- Easy to maintain
- Minimum operator attention required

Annual Savings Using ThermaPhase

GALS./DAY	GALS./YR.	ANNUAL SAVINGS MINUS ELECTRICAL COST
25	9,125	\$ 13,504
50	18,250	\$ 27,010
100	36,500	\$ 54,020
300	109,500	\$162,060
450	164,250	\$243,090
600	219,000	\$324,120

ASSUMPTIONS: Electricity cost \$ 0.08 per KWH
Waste water disposal cost \$2.00 per gallon



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