

## Electronic Demand Condensate Drain Traps

# Eco-Drain Series



### Remove Condensate

Condensate is a natural by-product of compressed air. Mostly water, it also contains oils, dirt and other material. If left in your air system, it will contaminate products and cause equipment malfunction. Kaeser Eco-Drains automatically remove condensate from aftercoolers, filters, dryers, tanks and air lines. Unlike manual valves and timed solenoids, Eco-Drains ensure that condensate does not build up in your system. They sense when liquid is present and automatically discharge it, but they only open when

condensate is present, saving costly compressed air.

### Accurate Electronic Control

A capacitance sensor monitors condensate levels in the drain and activates the Eco-Drain's solenoid. This sensor's high accuracy eliminates compressed air losses. Eco-Drains feature LEDs that indicate power, valve and alarm status as well as a test button to manually check drain operation. Dry contacts enable remote monitoring and alarm functions.

### Standard Features:

- Capacitance sensor activates the solenoid only when liquid is present
- Only clean compressed air is used to control the valve
- Large discharge prevents emulsification
- Automatically attempts to clear discharge line blockages
- LED indicators for power on, valve operation, and blockage alarm (except Eco-Drain 30 model)
- Function test button
- 6 foot power cord with 3 prong plug
- Dry contacts for central alarm signaling are standard on most models
- 30 and 31 models have quick change maintenance modules

### Reliable Components

Eco-Drains' rugged cast aluminum housing and superior diaphragm valve technology ensure many years of reliable service. Other drain types put valves in direct contact with contaminated condensate, which clogs control lines and disrupts solenoid movement. In Eco-Drains, a patented pilot air control design separates the working components from the condensate chamber, providing worry free operation and high reliability.

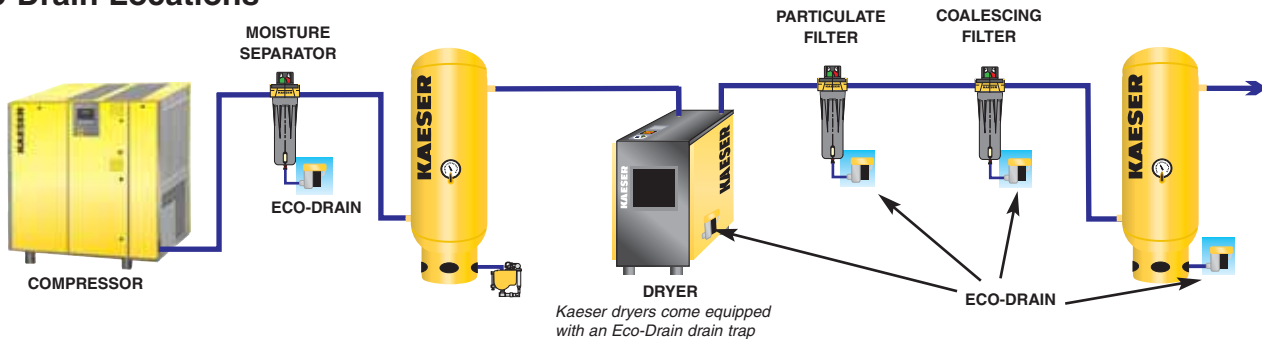
## Specifications

| Model        | Maximum Capacity (cfm) |       |         | Pressure min/max (psig) | Temp. min/max (°F) | Inlet Connection Size NPT (in.) | Condensate Discharge Size (in.) | Weight (lb.) |
|--------------|------------------------|-------|---------|-------------------------|--------------------|---------------------------------|---------------------------------|--------------|
|              | Compressor             | Dryer | Filter* |                         |                    |                                 |                                 |              |
| Eco-Drain 30 | 100                    | 200   | 1000    | 12/230                  | 34/140             | 1/2                             | 3/8                             | 1.8          |
| Eco-Drain 31 | 225                    | 450   | 2250    |                         |                    |                                 |                                 | 2.2          |
| Eco-Drain 12 | 270                    | 563   | 3375    |                         |                    |                                 |                                 | 1.8          |
| Eco-Drain 13 | 1350                   | 2250  | 13,500  |                         |                    | 4.4                             |                                 |              |
| Eco-Drain 14 | 4500                   | 9000  | 22,500  |                         |                    | 6.4                             |                                 |              |
|              |                        |       |         |                         |                    | 3/4                             |                                 |              |

Electrical supply: 115V / 1 Ph / 60 Hz  
\*downstream of the dryer

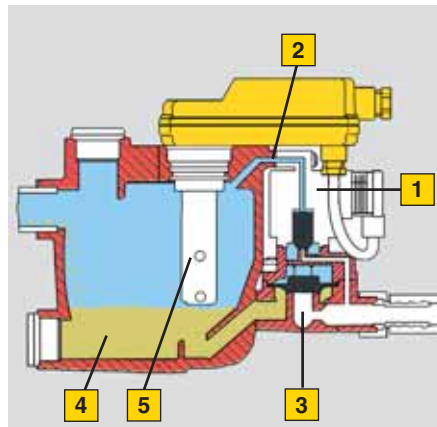
Specifications are subject to change without notice.

## Eco-Drain Locations



## Operation

A solenoid valve (1) allows clean compressed air (2) to pass and force the diaphragm valve (3) to the closed position. When the collection chamber (4) fills with condensate to a maximum level, the capacitance sensor (5) signals to energize the solenoid valve which allows the air above the diaphragm to vent. Condensate is released from the collection chamber and the diaphragm valve closes before air is lost.



## Easy Maintenance

Maintenance for Eco-Drains 30 and 31 takes just a few minutes. Just replace the snap-in service module and discard the old one. Maintenance for Eco-Drains 12, 13 and 14 consists of replacement of wear items. All replaceable items are contained in a simple kit for each drain model.



Eco-Drain 30 and 31

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Certified Management Systems



## The Air Systems Specialist

With over 85 years of experience, Kaeser is the air systems specialist. Our extensive 100,000 square foot facility allows us to provide unequalled product availability. With service centers nationwide and our 24-hour emergency parts guarantee, Kaeser customers can rely on the best after-sales support in the industry. Kaeser stands committed to providing the highest quality air system for your specific compressed air needs.