

TECH NOTES

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PRODUCT LAUNCH

MODEL 247D LOW PROFILE HIGH PRESSURE DRIP TRAP

Drip traps are recommended for installation on the biogas line, typically at the drain connections of condensate and sediment traps and at low points in the piping. Its basic purpose is for the convenience of safely removing condensate collected from the gas.

Varec Biogas offers several types of drip traps for biogas applications. For high pressure lines that are greater than 5 psig (34 kPa), Varec Biogas offers the Model 247/247AT.

For special applications wherein a large reservoir is required for condensate collection but with minimal or confined space, we offer our Model 247D Low profile high pressure drip trap.



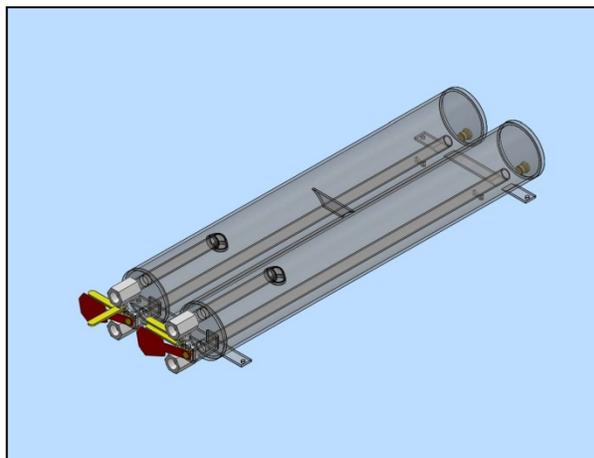
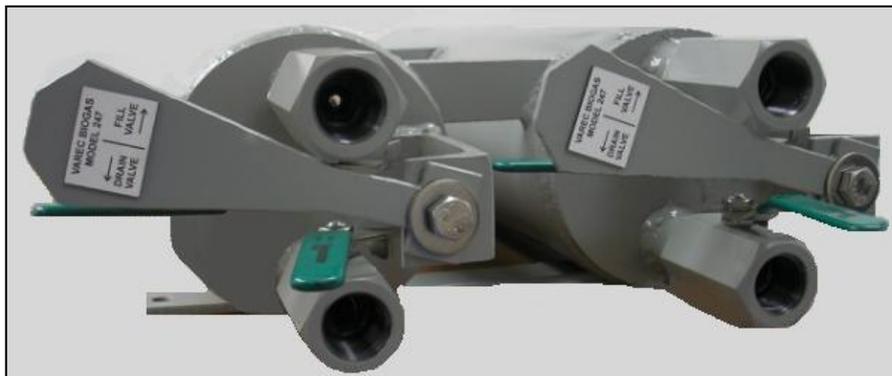
The Model 247D Low Profile High Pressure Drip Trap is rated for a maximum working pressure of 100 psig (688 kPa). This unit is typically installed at low points in the gas piping downstream of booster blowers or compressors. The 247D is ideal for blower and compressor skids because it can be installed low to the ground while providing a larger reservoir for condensate collection.

It is also perfect for use with multi-stage compressors where the water must be drained from 2 chambers with different pressures.

OPERATION

Condensate is accumulated in the drip trap reservoir and drained manually by operating the valve handles. The double-seal ball plug valves and locking lever isolate the gas line connection before opening the drain port, ensuring that gas cannot escape while draining condensate.

To allow condensate to fill the reservoir, simply rotate the locking lever downward and turn the fill handle parallel with the fill pipe. The drain handle remains perpendicular to the drain pipe and is held in place by the locking lever. To drain the reservoir, the “FILL” handle is rotated 90° and the locking lever is moved upward to secure the fill handle in its closed position. The “DRAIN” handle must be slowly rotated until it is parallel with the drain pipe, and the drain valve is open. When the reservoir is empty, the handles are returned to the fill position (lower valve closed, upper valve open).



For automatic operation, the plug valves may come equipped with actuators and a timer that may be set to operate the FILL and DRAIN valves at set intervals. The possibility of leaving both FILL and DRAIN valves open or closed is avoided via an electrical interlock between the FILL actuators and DRAIN actuators. The FILL valve is open and the DRAIN valve is closed at the start of the cycle.

Like the Model 246AT and 247AT, the 247DAT may be specified with a control panel to allow for remote operation of multiple drip traps either automatically (as above) or manually. The

remote control station can also be specified with status lights and/or alarm contacts.

Please consult your local Varec Biogas Sales Representative for technical and pricing assistance on our latest product offering.