



VAREC BIOGAS 248 Series CONDENSATE ACCUMULATOR

The Condensate Accumulator is designed to store large volumes of liquid condensed from biogas and allow the condensate to drain while preventing any gas from escaping.

Introduction

Biogas is usually hot and saturated when it leaves the digester. It continues to cool as it goes through the piping system causing water condensate to drop out. The removal of condensate from the biogas piping system is necessary to protect piping and equipment from possible damage caused by corrosion or water hammer.

The 248 Series Condensate Accumulator can store a significant amount of condensate. It is usually installed at the lowest point of the piping system.

Features

The simple design of the 248 Series permits easy and reliable maintenance and operation. The unit uses an internal drip leg and operates with a water seal under normal operating conditions. The height of the water seal should not expose the tip of the drip leg that is inside the vessel.

The drip leg is sized to prevent surges from expelling the liquid seal. As condensate from the gas is diverted to the accumulator, the drip leg will automatically drain the amount of condensate that is above the level of the water seal.

The drip leg exit connection must be properly piped using a tee to prevent syphoning. One end of the tee is to vent, and the other is to drain.

Two 1/2" NPT connections are provided for sight glass installation. It allows visual inspection of the water seal and condensate level during start-up and normal operation. A large 2-inch NPT blowout and drain connection is provided to remove entrained solids or sediment.



Optional Accessories

Sight Glass

For a quick externall check of the water seal and condensate level, a Varec Biogas Sight Glass should be specified for field installation. Varec Biogas Sight Glass assembly includes isolation and drain valves, glass and guard rods. The sight glass can also be supplied with stainless steel isolation valves, drain cock and guard rods.

Level Switch

316 SS wetted parts, SPST indication for high and low level indication.

Design Features

- Large Condensate Reservoir
- · Simple Operation
- Optional Alarm Switches

Specifications

Dimensions and Weights, inches [mm] and lbs. (kg)

Size	13 Gai.	125 Gai.
Α	49 [1245]	49 [1245]
В	43 ¹ / ₄ [1099]	43 ¹ / ₄ [1099]
С	19 [483]	42 [1067]
D	19 [483]	44 [1118]
Shipping Weight	100 (45)	250 (114)

Inlet Connections

4" 150 lbs. ANSI FF Flange Drilling Pattern

Blow-Out or Drain Connections 2" NPT

Design Pressure 35 psig (240 kPa)

Maximum Operating Pressure 20" WC (510mm WC)

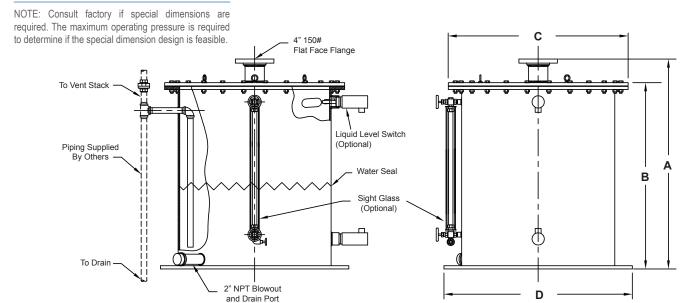
Materials of Construction

The Varec Biogas Model 248 Condensate Accumulator can be provided in the following materials of construction:

- Carbon Steel Construction with Epoxy Coated Internals and External Rust Inhibitive Primer Finish
- Stainless Steel

Capacity

13 Gallon [49 liters] 125 Gallon [473 liters]



Ordering Information

Model 248	Description Condensate Accumulator						
	Code 1 2		ize 3 Gallons (49L) 25 Gallons (473L)				
		Code A B	Carbon	ial of Construction Steel Construction with Epoxy Coated Internals and External Rust Inhibitive Primer Finish inless Steel			
			Code 2 3	Sight Glass (Optional) 1/2" Sight Glass Assembly with SS Valves, SS Guard Rods & Drain Cocks, PN: 281-31 Not Required			
				Code High / Low Level Switch High & Low Level Switch Not Required			
248 Example: 13 (1 Gallon Condensat	B te Accumulator	2 , 316 SS Cor	1 (Example) onstruction, Sight Glass Assembly and Level Switch Included.			