

AUTO-purge III

INSTALLATION GUIDE

COMPRESSED AIR REQUIREMENT

80 psig minimum, 150 psig maximum, oil and dirt free. Consumption is 20 acfm, with field selectable purge duration of 30-120 seconds, during which air is released. Air supply must be capable of maintaining 55 psig at the AUTO-purge enclosure, for the entire purge cycle.

LINE SIZE FROM AUTO-purge ENCLOSURE TO FLOW MEASURING STATION OR PROBES

Distance	Tubing Size	Tubing Wall Thickness Recommendation (applies to all tube sizes)
< 25'	1/2" stainless steel tube	.035" - Suitable for compression fittings
25' - 50'	3/4" stainless steel tube	.065" - Suitable for socket weld fittings
> 50'	1.0" stainless steel tube	

ACCUMULATOR TANK Strongly recommended. Includes check valve at the tank inlet.

Capacity	Equipment Served
120 gallons	All CA Stations
120 gallons	Multiple VOLU-probes having a combined length greater than 10'
80 gallons	One or more VOLU-probes having a combined length less than 10'

LINE SIZE FROM AUTO-purge ENCLOSURE TO ACCUMULATOR TANK

25' maximum length, 1/2" pipe line size (minimum). Recommend locating accumulator tank as close as possible to the AUTO-purge enclosure.

ELECTRICAL POWER REQUIREMENTS

AUTO-purge Supply Voltage	In Rush	Hold
24 VAC	74VA	62VA
24 VDC	28W	28W
120 VAC	93VA	78VA

Notes:

For enclosure Vortex Cooler option, add 2 watts @ 24-99V / 50-60Hz/DC for 400 BTUH @ 100 psig ≤ 70°F.
 For enclosure Heater option, add 1.7A @ 120VAC for 200 watt heater.

AMBIENT TEMPERATURE

40°F to 140°F. Ambient temperatures above or below this range may necessitate use of an enclosure cooler and/or heater.

PURGE FREQUENCY

Once a day (minimum), once per hour (maximum).