

ADVANCED REFLUX SAMPLER



YARS100

Bulletin 11A00V02-01E-A

www.yokogawa.com/us/an/index.htm

Advanced Sampling

- Self Acting Version available in either fixed or adjustable set-points with optional over temp shut-off valve (no electricity required)
- Electronic Version via integral controller or from plant DCS system
- Tight Temperature Control produces high quality, consistent sample for analysis. Can be controlled to within 0.5°F of set point depending on type of control.
- High Throughput for reduced sample transport time. Up to 5LPM (application dependant)
- Improved Cooling Efficiency lowers utility costs
- All Components field serviceable

The Yokogawa Advanced Reflux Sampler is designed to provide conditioning for severe service analysis needs using a simple self contained two stage system. The first stage is designed to provide filtration of particulate and passive cooling. As the sample reaches the second stage, it is directed through a transition piece which channels the gas evenly across two active cooling elements. The cooling elements provide 360 degree contact between sample and coolant. As the cooling takes place, condensate and Heavy Hydrocarbons removed from the sample are gravity fed back through the reflux section, washing the sample inlet of particulate and other fouling compounds. Temperature is tightly controlled with a single point temperature measurement fed to a controller which cycles the two active cooling elements.

Mounting	Vertical
Controller	Self Acting (Fixed or Adjustable) or Electronic (integral PID or plant DCS)
Wetted Material	316SS, Titanium, Hastelloy, Carpenter 20 (other materials available)
Inlet Connection	Flanged (typical 1", 2" OR 3" 150# OR 300# RF ANSI)
Sample Temperature	50°-1500° F
Inlet Pressure	2 - 600 PSIG
Sample Outlet Temperature	40° - 200° F
Sample Flow	1-5 LPM
Area Classification	Zone/Div 1/2 available
Coolant Media	15 SCFM @ 90 PSIG typical (other cooling media such as propylene possible) CUSTOM DESIGNS AVAILABLE TO SUIT MANY APPLICATIONS

Technical specifications are subject to change without notice.

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vigilantplant.[®]

The clear path to operational excellence

SEE
CLEARLY

KNOW
IN ADVANCE

ACT
WITH AGILITY

VigilantPlant is Yokogawa's automation concept for safe, reliable, and profitable plant operations. VigilantPlant aims to enable an ongoing state of Operational Excellence where plant personnel are watchful and attentive, well-informed, and ready to take actions that optimize plant and business performance.

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