

# ADVANCED REFLUX SAMPLER



## YARS100

Bulletin 11A00V02-01E-A

# 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.

<b>Mounting</b>	Vertical
<b>Controller</b>	Self Acting (Fixed or Adjustable) or Electronic (integral PID or plant DCS)
<b>Wetted Material</b>	316SS, Titanium, Hastelloy, Carpenter 20 (other materials available)
<b>Inlet Connection</b>	Flanged (typical 1", 2" OR 3" 150# OR 300# RF ANSI)
<b>Sample Temperature</b>	50°-1500° F
<b>Inlet Pressure</b>	<b>2 - 600 PSIG</b>
<b>Sample Outlet Temperature</b>	<b>40° - 200° F</b>
<b>Sample Flow</b>	1-5 LPM
<b>Area Classification</b>	Zone/Div 1/2 available
<b>Coolant Media</b>	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.

**ATEX**  **II 2 G T4**  
**CE**

## Yokogawa Electric Corporation

World Headquarters  
9-32, Nakacho 2-chome, Musashino-shi,  
Tokyo 180-8750, JAPAN  
Tel: +81-422-52-6316 Fax: +81-422-52-6619  
<http://www.yokogawa.com/an/>

## North America

**Yokogawa Corporation of America**  
Georgia, U.S.A  
<http://www.yokogawa.com/us>

## South America

**Yokogawa Corporation of America**  
Brazil  
<http://www.yokogawa.com.br/>

## Yokogawa Europe B.V. European Headquarters

The Netherlands  
<http://www.yokogawa.com/eu/>

## Yokogawa Electric CIS LTD

Russian Federation  
<http://www.yokogawa.ru/>

## Middle East

**Yokogawa Middle east B.S.C. (C)**  
<http://www.yokogawa.com/bh/>

## Singapore

**Yokogawa Engineering Asia PTE. LTD.**  
<http://www.yokogawa.com/bh/>

## Korea

**Yokogawa Electric Korea CO., LTD.**  
<http://www.yokogawa.com/kr/>

## China

**Yokogawa China CO., LTD.**  
<http://www.yokogawa.com/cn/>  
**Yokogawa Shanghai Instrumentation CO., LTD.**  
<http://www.yisi.com/cn/>  
**Yokogawa Sichuan Instrument CO., LTD.**  
<http://www.cys.com/cn/>

## Taiwan

**Yokogawa Taiwan Corporation**  
<http://www.yokogawa.com.tw/>

## India

**Yokogawa India LTD.**  
<http://www.yokogawa.com/in/>

## Australia

**Yokogawa Australia PTY. LTD.**  
<http://www.yokogawa.com/au/>

Represented by:

Vig-PMK-G-NL-10E

Printed in USA, 107 (KP) [Ed 02b]