

# Py-Gas Sample Conditioner

## ◆ Principle of operation.

The Py-Gas Sample Conditioner is normally mounted vertically on a customer-supplied shut-off valve on the process line.

Sample flows up the column at flow rates through the filter reflux section where any particulate matter is filtered out.

As the vapor sample passes upward to the cooling section, the moisture and heavy hydrocarbons are condensed, flowing downwards and accumulating on the packing of the filter reflux section..

As the condensibles increase on the packing they continue to flow downward and backwash any particulates back into the process line.

Depending on the application, hot water or steam may be injected at an appropriate location in the filter reflux section to provide additional condensibles to aid in cleaning the filter packings.

## ◆ Application.

The Py-Gas is an online sample conditioner designed for difficult sample conditioning situations such as the following.

- Hot and dirty gases
- Pyrolysis gases
- Liquid mists or water removal
- Wet, dirty gases
- Heavy particulate removal
- Fine carbon removal

# Py-Gas Sample Conditioner



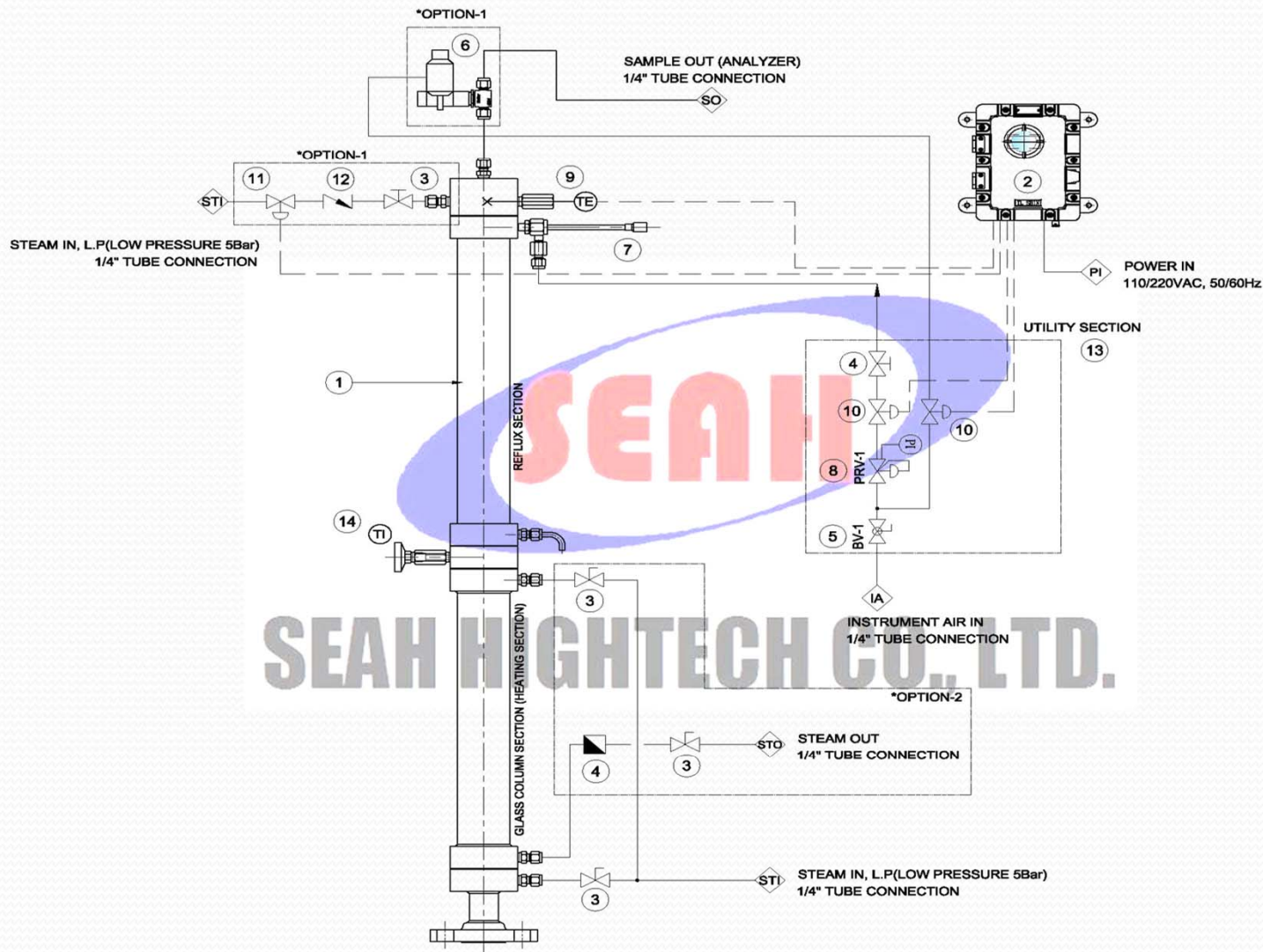
## ◆ Features

- On-Line Sample Conditioning.
- Self Cleaning
- Uses Vortex Air or Chilled Liquid Coolant.
- No Moving Parts.
- Provides Clean Sample to Analyzers.
- Uniform Representative Sampling.
- Suitable for Hazardous Areas.

## ◆ 사양 및 주문번호

Model	A	Specification	B	Specification	Accessories
		Volume		Body Material	
SAHT-PGSC-A-B	14	140cc(1/4"Tube)		H : Hastelloy-C M : Monel S : 316SS	* Flange

# DYNAMIC REFLUX SAMPLING PROBE



ITEM NO.	DESCRIPTION & SIZE	MATERIAL	QTY		KG	REMARK
			UNIT	TOTAL		
1	REFLEX COOLER UNIT	316SS	1			
2	TEMPERATURE CONTROLLER PLC BASED	-	1			
3	NEEDLE VALVE, 1/4"	316SS	5			
4	STEAM TRAP, 1/4"	304SS	1			
5	BALL VALVE, 1/4"	316SS	1			
6	AIR OPERATED VALVE, 1/4", N/O	-	1			
7	VORTEXT COOLER, MODEL 20008	SS	1			
8	PRESSURE REGULATOR WITH GAUGE	AL.	1			
9	THERMOWELL FOR TEMP. SELSOR	316SS	1			
10	SOLENOID VALVE, 3-WAY	-	1			
11	SOLENOID VALVE, 2-WAY FOR STEAM	-	1			
12	CHECK VALVE, 1/4"	316SS	1			
13	UTILITY SECTION PANEL	304SS	1			
14	TEMP GAUGE, 1/4"NPT, 0-100°C	304SS	1			

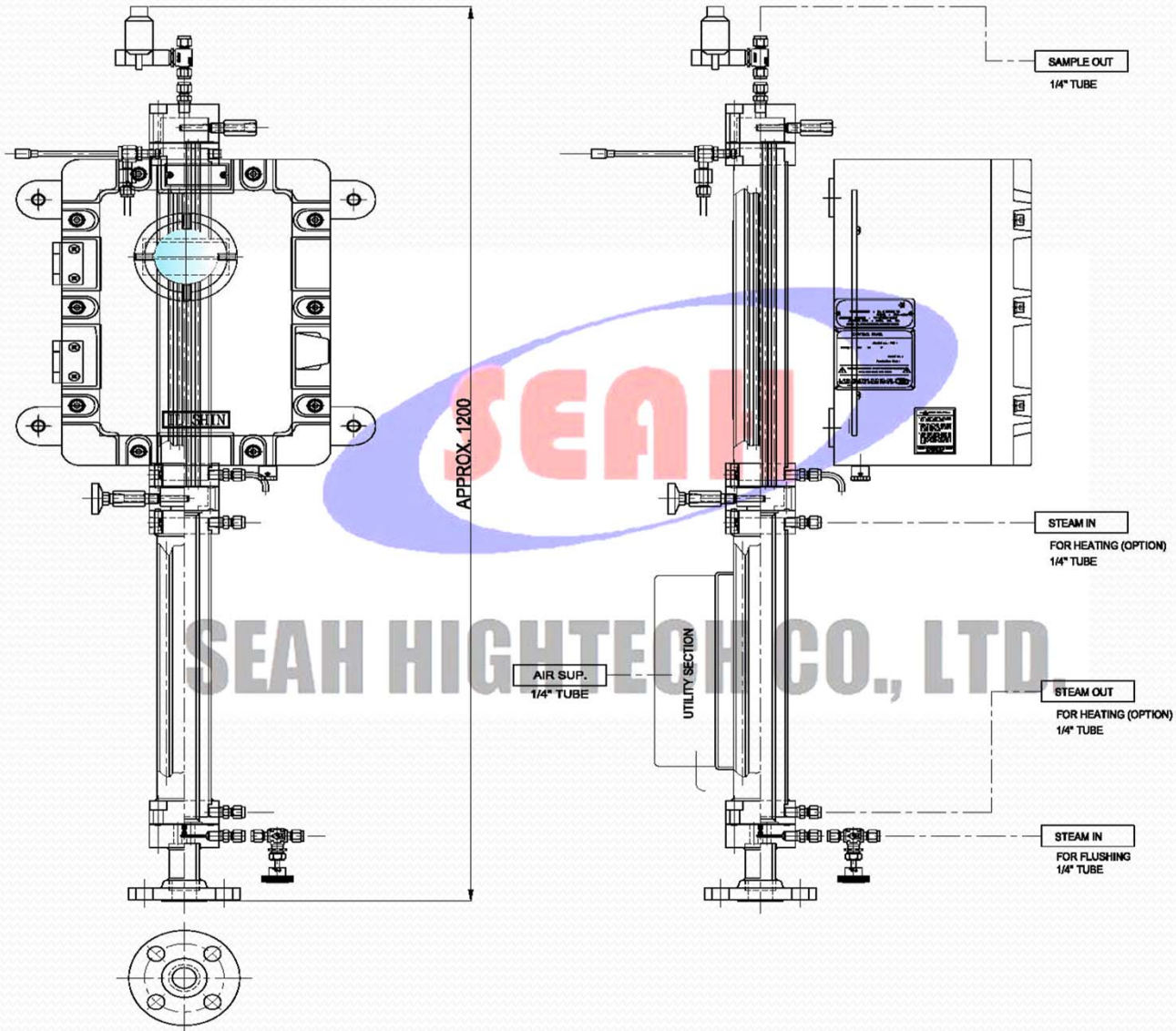
## NOTE

- The sample wetted metal material before pressure regulator would be 316SS or Higher grade
- OPTION-1 : This function is used to automatically flush foreign substances on the cooling tube line.  
OPTION-2 : Steam line system for Heating section

SEAH HIGHTECH CO., LTD.

FOR APPROVAL	Jan.14, 2019	J.S. Hong	K.Y. SON	D.H. PARK	
REV.	DESCRIPTION	DATE	REVD	CHECKED	APP'D
<b>SEAH HIGHTECH</b> SEOUL, KOREA		TITLE			--
SCALE	NONE SCALE	DRAWN	DESIGN	CHECK	APPR.
PROJECTION	-	Jun seo, Hong			DRAWING NO.
DATE	Jan.14, 2019				REV.

**DYNAMIC REFLUX SAMPLING PROBE**



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