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Sarvesh Analytics brings the most simplified extractive Sampling System based on Powerful Peltier based cooler in the most compact form. It includes all the components required to give a safe and conditioned sample for your Gas Analyser.

Complete Sampling System

Compact 19" Peltier Based System

Dual Channel Cooler with
integrated Peristaltic Pump

Includes

Sample Filter with Condensate Sensor

Sample Pump with Flow Control Valve

Blowback Controller

Heated Hose Controller

Optional

Calibration Solenoid Valve

Sample Probe with Blowback

Heated Hose (50m)

Salient Features

PLUG and PLAY

Microprocessor based Electronics with
inbuilt Moisture Protection Logic

Sample Pump output is ON only when

- Sample temperature $< 12^{\circ}\text{C}$

- Sample is dry without Condensate

Timer Based Blowback

Reduces Tubing and Electrical

Consumes Less Panel Space

Faster Integration Time

Reduces Cost

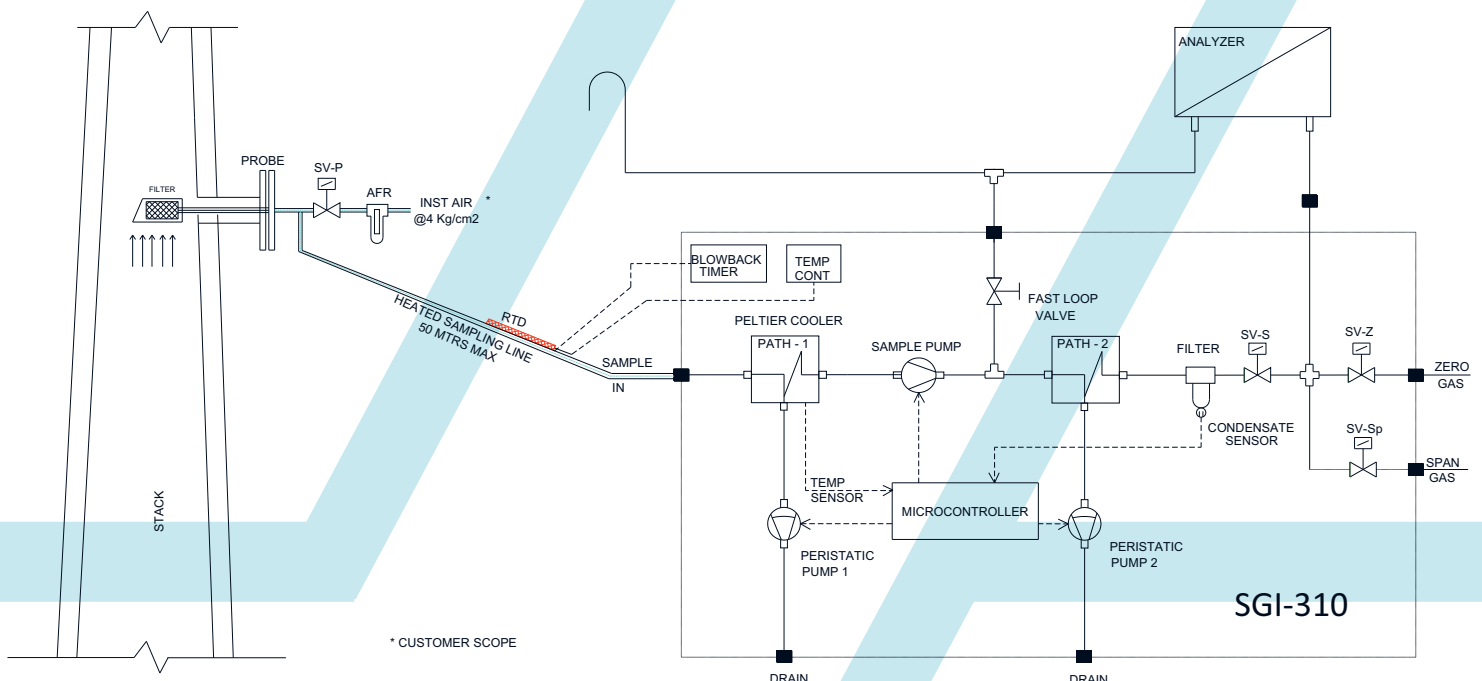


Hardware Specifications

Cooler Specifications:	
Heat Exchanger	2 x PTFE
Sample Inlet Temperature	Max 140° C
Sample Dew Point	65° C max
Sample Flow	240 LPH (4 LPM)max
Sample Outlet Temperature	5° C
Sample Dust Level	< 3 micron
Peristaltic Pumps	2 no.s
Sample Fine Filter:	0.1 Micron Coalescing Type
Condensate Sensor:	Long life corrosion free Sensor
Sample Pump with Fast Loop Valve:	Free Flow - 5 LPM
Optional:	Free Flow - 9 LPM
Calibration Valves (optional):	2 x Solenoid Valve, 24 VDC
Temperature Controller:	User Programable with SSR output rated @ 230V AC, 50 Hz, 20A.
Material in contact with Sample:	SS 316, PTFE, Viton, Silicon, Engineering Plastic
Blowback Timer :	User Programmable with relay output rated @ 230VAC 1 A
Fault Relay:	Potential Free CO contact, rated @ 230 VAC, 1 A

Salient Features

- The Micro controller controls the following loops
 - ✓ maintains the temperature of the cooler to get 5° C as Sample Output Temperature
 - ✓ Operates the Sample pump below 12° C
 - ✓ Operates the Peristaltic Pumps periodically
 - ✓ Trips the Sample Pump when condensate is detected
- INDICATORS: There are Four LED Status Indicator - Power, Status of Cooler Temperature, Sample Pump and Condensate.
- FAULT ALARM: The Micro Controller Generates fault Alarm in case of Cooler Temperature failure and condensate detection
- BLOWBACK: The Blowback timer is user programmable and is used to operate the Blowback Solenoid Valve at the Sample Probe. The Sample Pump is OFF during Blowback.
- HEATED HOSE: The Temperature controller for Heated Hose is user programmable. It is used to control the Heated Hose temperature. The RTD from the Heated hose is taken as the temperature input.
- CALIBRATION VALVES (optional) : The calibration Solenoid Valves can be directly controlled by the Gas Analyser.



Notes:
 -The final responsibility to check whether this product meets the requirement of the Process and / or Analyser remains solely with the customer.
 - M/s SARVESH ANALYTICS PVT. LTD. has a policy of continuous improvement of product & services and hence reserves the right to change the specifications and features without prior notice.

