



SGI 300

It's More than a Sample Cooler

Sarvesh Analytics brings the most powerful Peltier based Sample Gas Cooler with integrated Autodrain, Filter and Condensate Sensor in a most compact form. It is more than a cooler. It simplifies your sample condition design and assembly.

Salient Features

Plug n Play

Engineered for Online Processes and Analysers

Peltier Cooler with PTFE heat exchanger

Microprocessor based Electronics

Inbuilt Moisture / Condensate Protection Logic

Integrated Peristaltic Pump

Auto Start-up Sequence

Inbuilt Sample Pump Control Logic

Sample Filter with Condensate Sensor

Alarm / Fault Relay output

Auto Shutdown on Hardware Failure

Output to directly drive external Sample Pump

In-built Pump Control Logic

Sample Pump output is ON only when

- Sample temperature $< 12^{\circ}\text{C}$ and
- Sample is dry without Condensate

Consumes Less Panel Space
Reduces Tubing and Electricals
Faster Integration time
Reduces Cost

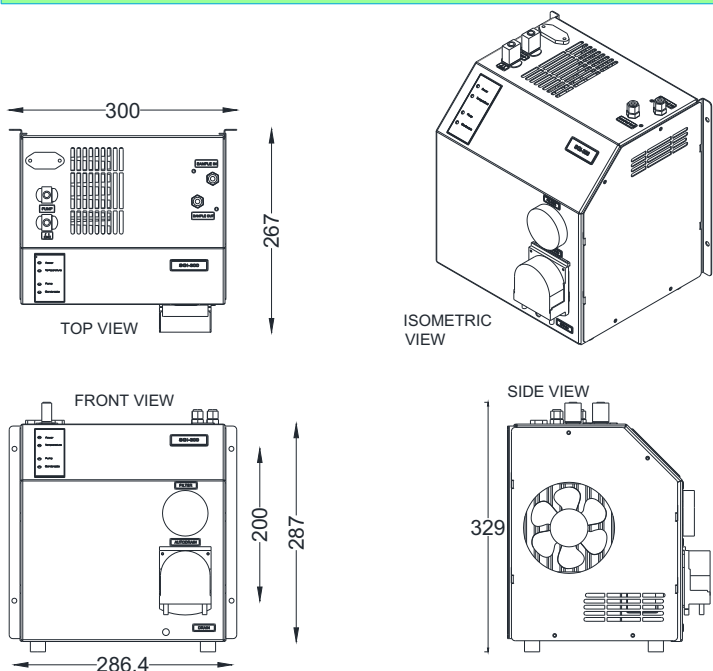


Hardware Specifications

Cooler Specifications:	
Heat Exchanger	1 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:	1 no.s
Sample Fine Filter:	0.1 Micron Coalescing Type
Condensate Sensor:	Long life corrosion free Sensor
Output :	Triac Output to Drive an External Sample Pump rated @ 230V AC 50Hz, 1A max
Fault Relay:	Potential Free CO contact, rated @ 230 VAC, 1 A
Wetted Parts:	SS 316, PTFE, Viton, Silicon, HDPE

Environmental Conditions

Ambient Temperature:	+10°C to + 40°C
Storage Temperature:	+0°C to + 50°C
Relative Humidity:	< 90% RH non-condensing
Area Classification:	Safe Area

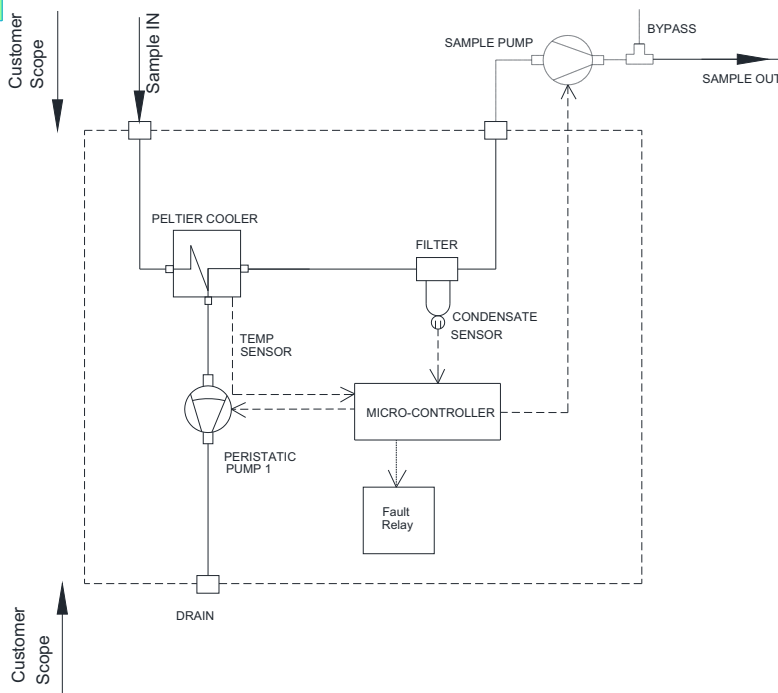


Salient Features

- The Micro controller controls the following loops
 - ✓ maintains the temperature of the cooler to get 5° C as Sample Output Temperature
 - ✓ Operates the External Sample pump below 12° C
 - ✓ Operates the Peristaltic Pumps periodically
 - ✓ Trips the External Pump output if condensate is detected
- There are Four LED Status Indicator - Power, Status of Cooler Temperature, Pump & Condensate.
- FAULT ALARM:** The Micro Controller generates Fault Alarm in case of Cooler Temperature failure and Condensate detection

Other Specifications

Sample Connection	Inlet - 1/4" OD Outlet - 1/4" OD Drain - Flexible tube connection
Enclosure	Wall mounted Dimension 330 (H) x 300 (W) x 267 (D) mm Protection Suitable for Safe Area, IP 20 Weight Approx. 11 Kgs
Power Supply	230 VAC, 50 Hz, 150 VA



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.

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