SARVESH ANALYTICS Pvt. Ltd.

Sample Conditioners

Analysis Simplified

Smart Sampling Conditioner -	**i-Cons**
Sample Coolers -	**SGI-300**
Heated Sample Probe -	**SP-300**
Retraction Probe -	**SRP-400**
Cryogenic Sample Vaporiser -	**SV-200**
Sample Vaporiser -	**SV-400**

Tele: 91 - 94 2300 4179

email: info@sarveshindia.com

www.sarveshindia.com



i-Cons

Complete Sampling System in a Compact 19" Enclosure

i-Cons is the most Advanced, Intelligent and COMPACT Extractive Sampling System based on a Powerful Peltier Cooler. It includes all the essential Sampling Components, Realtime Diagnostics with Auto Correction and Early Warnings, History and Modbus communications. It helps you to achieve quickest integration time with minimal tubing and electricals.

Salient Features

- Plug n Play Menu Driven
- Engineered for Online Processes Analysers
- Auto Start-up Sequence
- Peltier Cooler with PTFE heat exchanger
- Controls output for Blowback, Sample SOVs & Heated Hose
- Auto Blowback on Flow Failure
- Peristaltic Pump with variable discharge rate
- Built in Sample Pump, Condensate Sensor, Flow detector, Autocal SOVs & Filter
- Pulsating Blowback for Efficient Cleaning
- Alarm and Fault History
- Remote Monitoring with Modbus RTU over RS 485
- Auto Shutdown on Hardware Failure

Maintenance Reminder for
- Peristaltic Pump tube
- Sample Filter
- Sample Probe Filter
- Sample Pump kit

Consumes Less Panel Space
Needs very few external components
Enables fastest Integration time
Reduces Direct and Indirect Cost

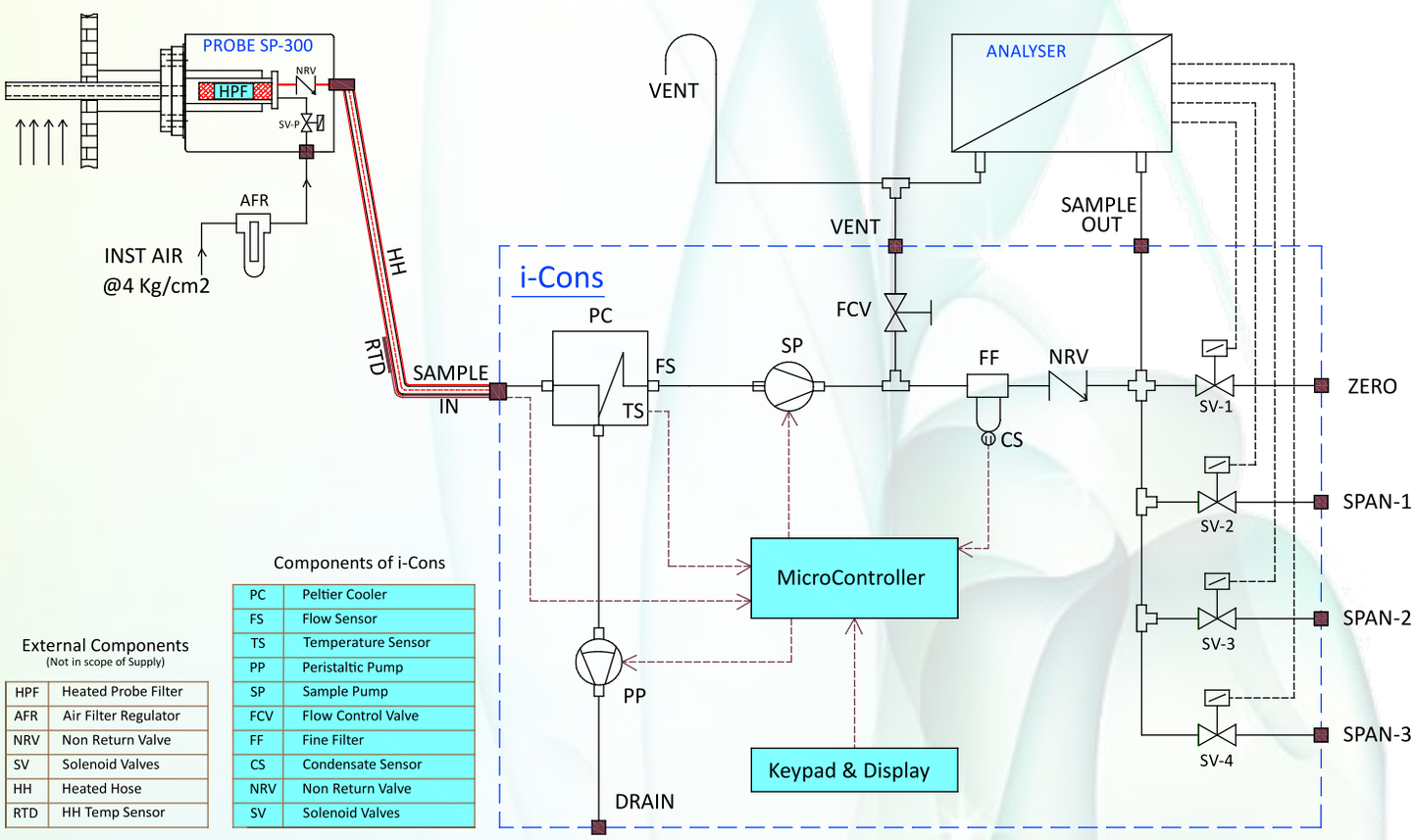
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i-Cons

i-Cons is a Sample Conditioner based on Peltier Cooler - a solid state technology. It is highly efficient, robust and has a long life as compared to conventional system.
i-Cons also continuously monitors system health and hardware. In case of any fault, which is rare, it goes into Shutdown thus avoiding running the system with fault and causing complications & damages.

All the Sample Conditioning Components you need are in-built in **i-Cons**

- ✓ **Peltier Cooler** with **PTFE Heat Exchanger** to Cool Sample Gas and
- ✓ A **Peristaltic Pump** to remove the collected moisture and condensate
- ✓ A **Sample Pump** to draw the Sample gas and monitor the flow with a **Flow Sensor**
- ✓ A **Condensate Sensor** to trip the Sample Pump in case of condensate carryover
- ✓ A **Fine Filter** as a final stage filtration for your Analyser
- ✓ A **Flow Control Valve** to set the right flow through the Analyser and bypass the excess flow
- ✓ **Solenoid Valves** for Zero and Span gases for Auto-Calibration or Remote Calibration Check of your Analyser



External Components
(Not in scope of Supply)

HPF	Heated Probe Filter
AFR	Air Filter Regulator
NRV	Non Return Valve
SV	Solenoid Valves
HH	Heated Hose
RTD	HH Temp Sensor

Components of i-Cons

PC	Peltier Cooler
FS	Flow Sensor
TS	Temperature Sensor
PP	Peristaltic Pump
SP	Sample Pump
FCV	Flow Control Valve
FF	Fine Filter
CS	Condensate Sensor
NRV	Non Return Valve
SV	Solenoid Valves

The **i-Cons** does more than the PLC functions you need and it is User programmable -

- ✓ Controls the period Blowback of your Sample Probe
- ✓ Controls your Heated Hose Temperature with RTD input
- ✓ Controls the Sample Cooler Output Temperature and Operates the Sample pump only if it is below 12^0 C
- ✓ Operates the Peristaltic Pumps periodically
- ✓ Monitors the Sample Flow and Initiates Blowback in case of Flow Failure
- ✓ Maintains History and Maintenance Records

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Sample Probe Blowback

- **i-Cons** controls the Cyclic Blowback of the Filter in your Sample Probe. The user can set the interval and duration of Blowback, either through Keypad or over Modbus command.
- The Blowback is PULSATING which ensures efficient cleaning of filter.
- If Sample Probe Filter gets choked mid-cycle and Sample Flow fails**, i-Cons** will immediately initiates an Automatic Blowback . This needs no manual interventions.
- During Blowback Sample Pump is OFF.

Heated Sample Line

The **i-Cons** has a in built Temperature Controller to controls your Heated Hose temperature. The user can program the temperature set point of the Heated Hose either through Keypad or Modbus command.

The RTD (Pt100) input from your Heated Hose is used to control the temperature.

Sample Pump

- **i-Cons** uses a in-built Sample Pump to draw sample from your Stack or Process.
- There are two Pump options based on the Sample Line distance i.e. 60 or 90 meters.
- When Condensate is detected in Sample Line or any Hardware Fault is detected, the Sample Pump is immediately tripped.
- During Blowback or Calibration, the Sample Pump is kept Off.

Peristaltic Pumps

- The Condensate collected by Peltier Cooler is removed by an in-built Peristaltic Pump.
- This Peristaltic Pumps in **i-Cons** run periodically.
- The discharge rate of these pumps are user programmable.
- If the Sample has excess water, you can connect a external Peristaltic Pump to **i-Cons**.
- This second Peristaltic Pump can also be programmed and controlled by **i-Cons**.

History & Maintenance Records

i-Cons keeps a real time record of Faults and Remaining Life of Consumables such as Filters, Peristaltic Tubes and Sample Pump. At the end of life of consumables, it gives a message to Check and Replace the same.

This feature is very helpful and act as an early warning system for maintenance. The data of Consumable Life is also available over Modbus.

Calibration in Progress

i-Cons has a 'Cal-in-Progress' Digital input. This should be wired to the 'Cal-in-Progess' Relay output of your Analyser.

Whenever your Analyser goes into Calibration the Sample Pump inside the **i-Cons** is kept OFF for the entire Calibration process.

Modbus on RS-485

i-Cons has a Modbus RTU communication. The user can remotely get **i-Cons** Status, Health, History and Maintenance Records through Modbus. The user can also Set Parameters in **i-Cons** through Modbus command. The Calibration Solenoid Valves can be operated through Modbus.

Hardware Specifications

Cooler Specifications:

Heat Exchanger:	1 x PTFE
Sample Inlet Temperature:	Max 160^0 C
Sample Dew Point:	65^0 C max
Sample Flow (max):	240 LPH (4LPM)
Sample Outlet Temperature:	5^0 C
Sample Dust Level:	< 3 micron
Peristaltic Pump:	1 No.
Fine Filter:	0.1µ Coalescing Element
Condensate Sensor:	Long life SS Sensor

Sample Pump with Fast Loop Valve:

Free Flow - 5 LPM

Optional: Free Flow - 8 LPM

Other Specifications

Sample Connection

Inlet	-	1/4" OD PTFE
Outlet	-	1/4" OD PTFE
Bypass	-	1/4" OD PTFE

Calibration Connections 1/4" OD PTFE

Drain Connections Flexible Tube connection

Enclosure	19" Rack / Panel mounted
Dimension	310 (H) x 483 (W) x 285 (D) mm
Protection	Suitable for Safe Area, IP 20
Weight	Approx. 16 Kgs
Power Supply	230 VAC, 50 Hz, 600 VA (excluding Heat Tracer)

Electrical Specifications

Display & Keypad: Backlit LCD, 4 Line x 20 Alphanumeric Character, with 7 Keys

Input (External):

Analog Input: 1 x RTD (Pt100) from your Heated Hose

Digital Inputs:

- 1 x Calibration in Progress from Analyser
- 1 x Zero Gas Solenoid Valve Initiate signal from Analyser
- 1 x Span Gas-1 Solenoid Valve Initiate signal from Analyser
- 1 x Span Gas-2 Solenoid Valve Initiate signal from Analyser

All Digital Inputs has contact voltage of 12/24V DC hence they are to be operated from potential free contacts from Analyser.

Outputs:

1 x Triac:	Drives SSR / Contactor for Heated Hose
Relay-1:	Alarm / Fault
Relay-2:	Sample Probe Blowback Solenoid Valve

All Relay outputs are SPST (Single Pole Single Throw) and rated @ 230V AC 1A

Communication: MODBUS RTU over RS-485

READ: Measured Values, Status, Setup Parameters & Maintenance History

WRITE: Operate Calibration Solenoid Valve, Setup Parameters

Material in contact with Sample: SS 316, PTFE, Viton, Silicon, Engineering Plastic.

Suitable for Sample with SO2, NOx, CO less than 1000ppm.

Not suitable for samples containing HCL, HF, H2S and other highly Corrosive, Toxic and Flammable Samples.

Environmental Conditions

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

Optional Hardware

Auto - Calibration

i-Cons can come with internal Solenoid Valves for Auto-Calibration with One Zero Gas and Two / Three Span Gases. These Solenoid Valves are of 24V DC operated and can be controlled by your Analyser directly.

Remote Calibration Check

CPCB guidelines asks for remote calibration check of the analyser. i-Cons can accept modbus command to Remotely Switch ON/OFF Zero, Span-1 and Span-2 Solenoid Valves.

Water Separator with Peristaltic Pump

This unit separates and removes excess water from Sample Gas. The collected water is removed by an external Peristaltic Pump which is controlled by i-Cons.

Sample Pump - High Flow Rate

When your Sample line distance is between 60 - 90m this option should be selected. The free flow rate is 8 LPM.

Sample Probe SP-300

This Sample Probe is suitable for High Dew Point Sample. It has Heated Filter and Blowback Solenoid Valve. The Blowback solenoid Valve can be controlled by i-Cons.

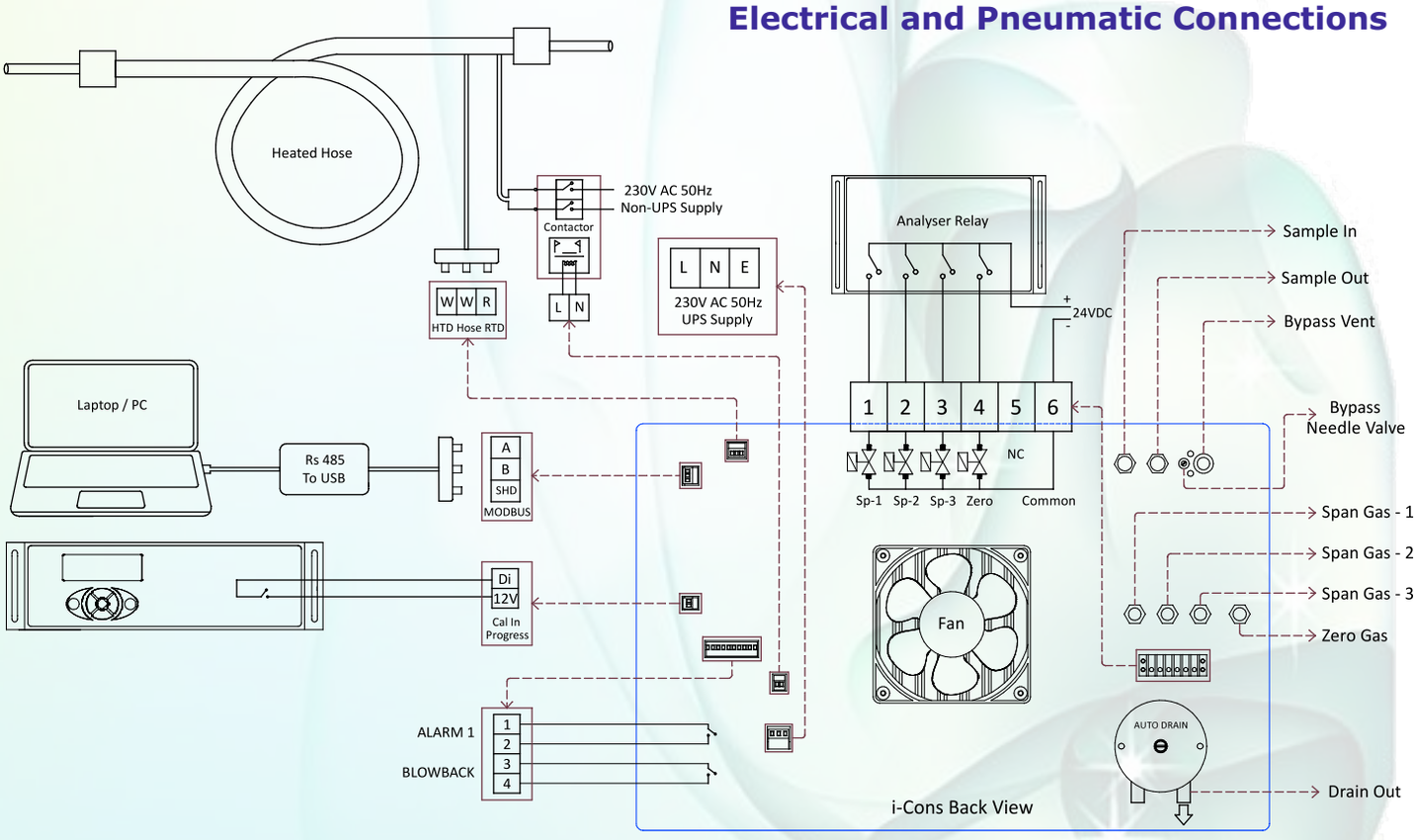
*Refer catalogue for more details

Heated Sample Line

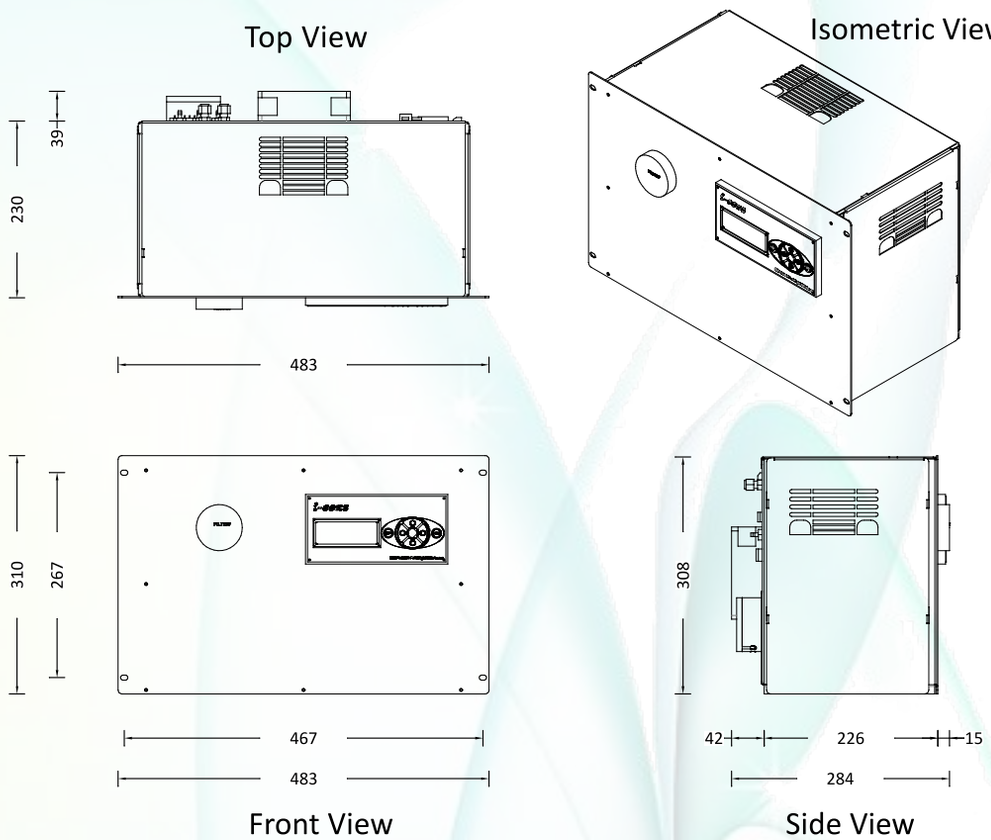
Prefabricated Heated Hose with 1/4"OD PTFE Sample Tube with heating capacity of 40W/mtrs, 230V AC. The heated hose temperature is maintained by i-Cons.

The Heated hose is available in 30 / 45 / 60 / 75 / 90 mtrs

Electrical and Pneumatic Connections



Dimensions



Ordering Code

	1	2	3	4	5	6	7	8	9	10	11	12
i-Cons -	**1**								X	X		X

Auto Calibration Solenoid Valves

None	X
Zero + Span	2
Zero + Span1 + Span2	3
Zero + Span1 + Span2 + Span3	4

Remote Calibration

None	X
Zero + Span1+ Span2	C

Sample Line distance

Between 20 to 60 Meters	M
Between 60 to 90 Meters	L

Catchpot with Peristaltic Pump

X	None
Y	Yes

Heated Hose

0	0	None
-	-	Length in meters

Sample Probe

X	X	None
2	0	Model SP-200
3	0	Model SP-300
3	B	Model SP-300+BB Tank

Notes: - The final responsibility to check whether this product meets the requirement of the Process and / or Analyser remains solely with the customer.
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Regd. Off: # 207, Vinayak Arcade, Akurdi, Pune - 411035, INDIA

Factory: Gat No.188, Jyotibanagar, Talwade, Pune - 411062 INDIA

Email: info@sarveshindia.com

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SGI-300

Sample Cooler for OEMs

Sarvesh Analytics brings to you the most powerful PELTIER based SAMPLE GAS COOLER with Integrated Peristaltic Pump, Filter and Condensate Sensor .

SGI-300 is more than a Sample Cooler. It simplifies your sample condition design and assembly. SGI-300 has a very small form factor.

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 Control Logic for Sample Pump

Sample Pump output is ON only when
- Sample temperature <12 ^{o}C &
- Sample is dry without Condensate

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

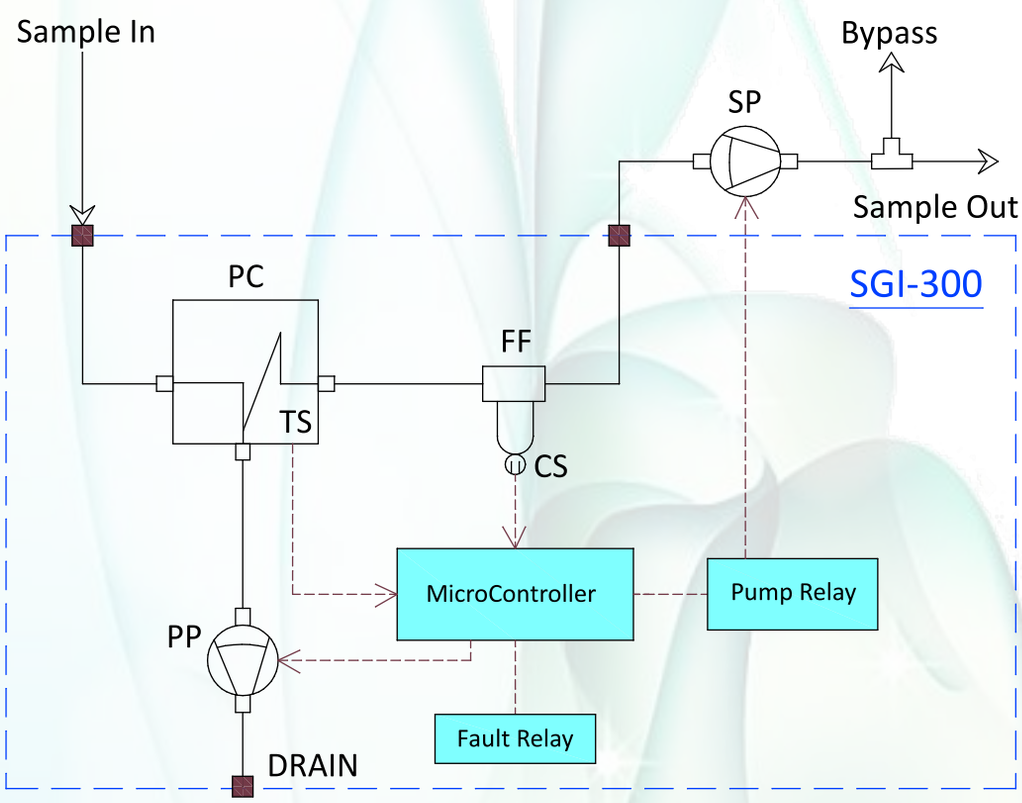
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SGI-300 is a Sample Cooler based on Peltier Cooler which is a solid-state technology. It is highly efficient, robust and has a long life as compared to conventional compressor based cooler. Peltier Technology is environment friendly.

SGI-300 also includes Peristaltic Pump, Condensate Sensor and Control Logic for Sample Pump with Relay Output. In case of any fault, which is rare, it stops the Sample Pump and goes into Shutdown thus avoiding damages to downstream components.

SGI-300 is very compact and is more than a Sample Cooler -

- ✓ It is a **Peltier Cooler** with **PTFE Heat Exchanger** to Cool your Acidic Sample Gas and
- ✓ It has a **Peristaltic Pump** to remove the collected Condensate
- ✓ It has a **Condensate Sensor** to trip the Sample Pump Relay Output in case of condensate carryover
- ✓ It has a **Fine Filter** as a final stage filtration for your Analyser
- ✓ It has a **Relay Output** to connect your External **Sample Pump** to draw the Sample gas



Components of SGI-300

PC	Peltier Cooler
TS	Temperature Sensor
PP	Peristaltic Pump
FF	Fine Filter
CS	Condensate Filter

External Components

(Not in scope of Supply)

SP	Sample Pump

SGI-300 simplifies your Sample Handling System as it includes a Sample Cooler, a Peristaltic Pump, a Condensate Sensor and a Fine Filter, all in one housing. This compact size consumes Less space in your panel, Less Tubes and Fittings. It is quick to install and commission. Overall it reduces your Integration Time and Bill of Material cost.

The unique PTFE Heat Exchanger is very efficient and it assures a extended life for acidic sample gases.

Control Logic

The micro-controller in **SGI-300** does most of the Logic required for your Sample Conditioning system. This simplifies the wiring and interconnection. The micro-controller -

- ✓ Controls the Sample Gas Output Temperature at 5° C
- ✓ Operates the Relay Output for your Sample Pump, when the Sample Temperature is below 12° C
- ✓ Operates the Peristaltic Pumps periodically to remove the Condensate
- ✓ Trips the Relay Output for your Sample Pump when Condensate is detected
- ✓ Operates Fault Alarm Relay when the Cooler Temperature is above 12° C and/or Condensate is detected

Display Indicators and Diagnostics

The **SGI-300** has four LEDs to display the status of Power, Cooler Temperature, Condensate and Relay Output for Sample Pump.

The micro-controller continuously monitors the health of the Hardware. In case of failure these LEDs are used to indicate the various area of failure.

Hardware Specifications

Cooler Specifications:

Heat Exchanger:	1 x PTFE
Sample Inlet Temperature:	Max 160° C
Sample Dew Point:	65° C max
Sample Flow (max):	240 LPH (4LPM)
Sample Outlet Temperature:	5° C
Sample Dust Level:	< 3 micron
Peristaltic Pump:	1 No.
Fine Filter:	0.1µ Coalescing Element
Condensate Sensor:	Long life SS Sensor

Electrical Specifications

Display Indicators: 4 x LEDs, Status Indicator for Power, Cooler Temperature, Pump and Condensate

Outputs: Relay-1: Sample Pump Connection
Relay-2: Alarm

All Relay outputs are SPST (Single Pole Single Throw) and rated @ 230V AC 1A

Power Supply: 230 VAC, 50 Hz, 150 VA

Material in contact with Sample: SS 316, PTFE, Viton, Silicon, Engineering Plastic.

Suitable for Sample containing SO2, NOx, CO less than 1000ppm.

Not suitable for samples containing
HCL, HF, H2S and other highly Corrosive, Toxic and Flammable Samples.

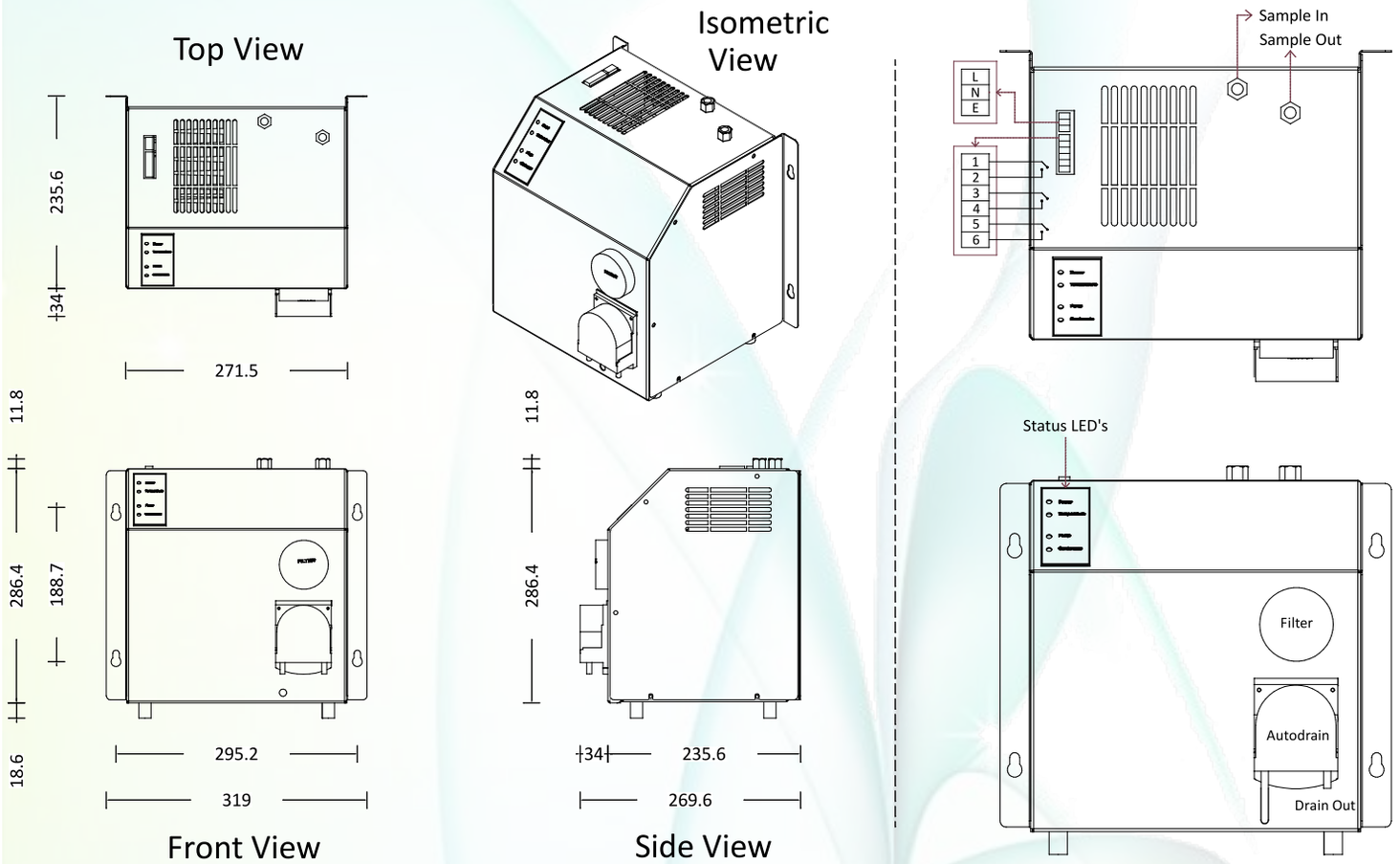
Other Specifications

Sample Connection
Inlet - 1/4" OD PTFE
Outlet - 1/4" OD PTFE
Drain Connections 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

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



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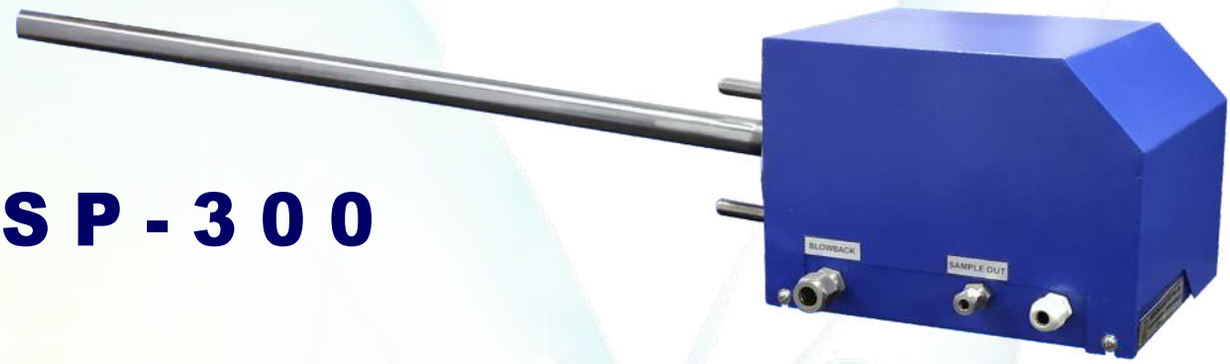
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Email: info@sarveshindia.com

Website: www.sarveshindia.com

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SP-300

SAMPLE PROBE with BLOWBACK
for High Dew Point Sample Gas

Heated Sample Probes

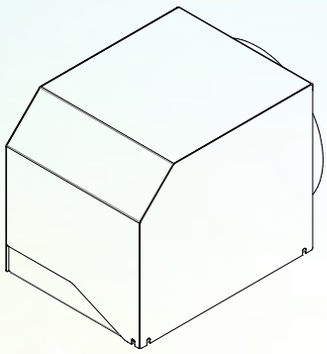
SP - 300 has a Heated Filter which is kept just outside the stack. The Blowback and Sample ports are separate which enables higher flow rate of blowback air, ensuring better filter cleaning.
The Sample and Blowback lines are separated by a non-return valve which eliminate the requirement of a High Temperature Solenoid Valve or Air Operated Valve in sample line during blowback.

Salient Features

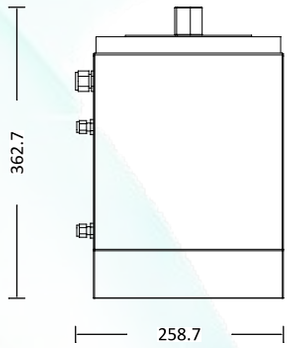
- Separate Sample & Blowback Port
- Eliminates Heated SOV / AOV in Sample Line
- Extra efficient Heating 50W only
- Ex-Situ Heated Filter
- Suitable for Dust Load up to 10gm/Nm^3
- No Cold Spots with evenly Heated Element
- SS 316 Sintered Filter Element of 10µ
- Suitable for Sample Moisture up to 15%
- Blowback Solenoid Valve is standard
- Efficient Blowback with 1/2" OD Port
- Long Life Filter Element due to Uniform Cleaning
- Optional Calibration Port

Sample Temperature:	120 - 500 ºC
Process Connection:	2" / 4" ANSI
Sample Port:	1/4" OD
Blowback Port:	1/2" OD
Calibration Port:	1/4" OD

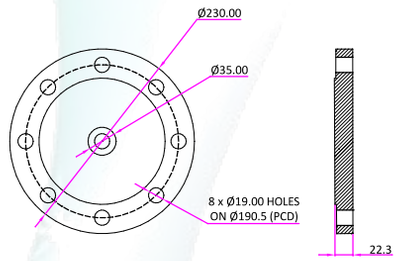
Wetted Parts: SS316, PTFE, VITON
Design Pressure: 10 Kg/cm2 Max
Design Temperature: 180 ºC Max
Blowback Pressure: 4 - 7 Kg/cm2



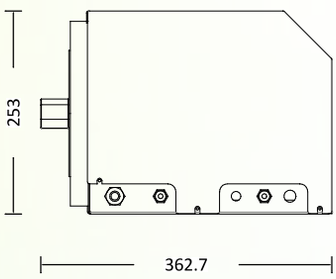
Isometric View



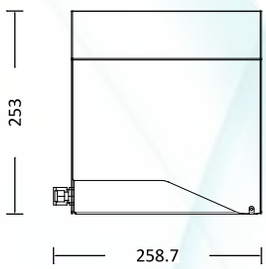
Top View



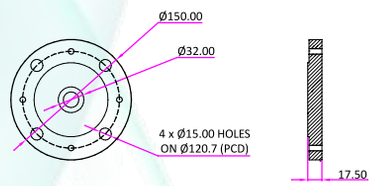
4'' 150# FLANGE



Side View



Front View



2'' 150# FLANGE

Ordering Code

	1	2	3	4	5	6	7	8	9	10	11	12
SP-	3								X	X	X	2

Probe Tube Material of Construction*

SS 316, Suitable up to 550^0 C	0	0
Inconel, 625 Suitable up to 1100^{0}C	1	0
Ceramic, Suitable up to 1400^{0}C	2	0

Probe Insertion Length

500 mm	0	5
1000 mm	1	0
1500 mm (not available in Ceramic)	1	5

Process Flange (with Bolts & Gasket)

SS 316, 2" ANSI 150#	2
SS 316, 4" ANSI 150#	4

Calibration Port

None	X
Included	Y

Blowback Tank

X	None
B	Included

* As per Process Temperature

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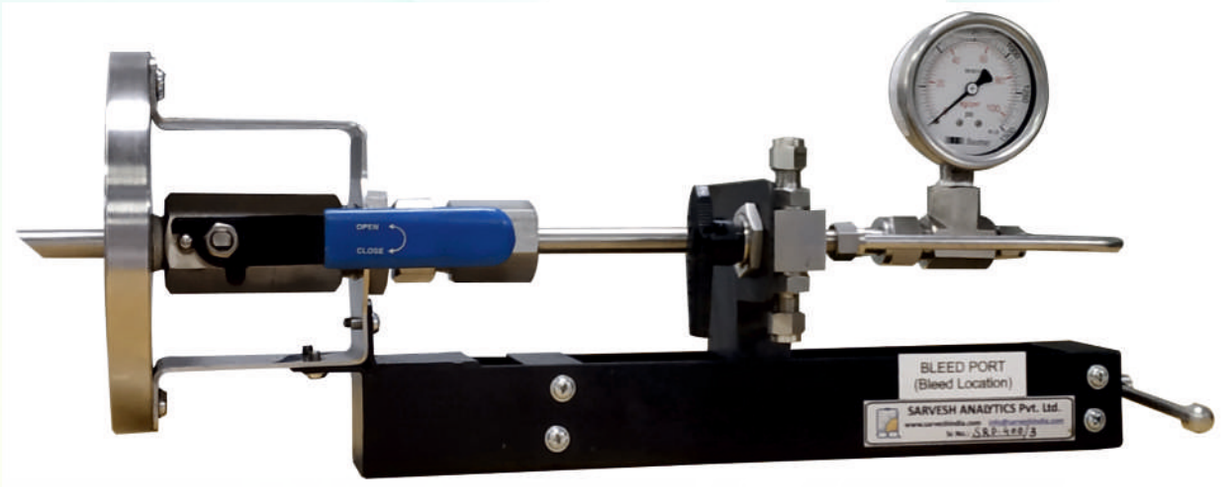
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S R P - 4 0 0

Retractable Sample Probe

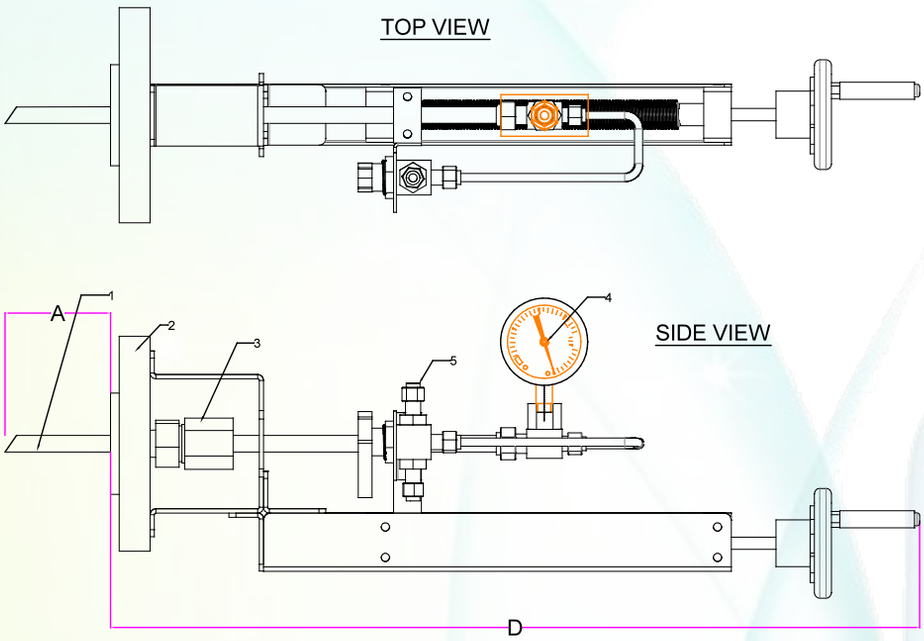
SRP - 400 can be inserted or removed from a active process line. The Probe tube glides through a specially designed fitting which can be safely operated up to 100 kg/cm2. The Retraction and Insertion is smooth. It has a three way Valve to isolate the downstream Sample Line or after retraction, safely bleed the trapped fluid. This makes maintenance a lot safer and easier.

Salient Features

- Non Fly-Off design
- Engineered for Safe Operations
- Separate Sample and Bleed port
- Compact and Sleek Design
- No Welding on the Sample Path
- Pressure indication for Safe Bleed
- Simple Installation and Operation
- Many options of Insertion Length available
- Orifice Controlled Safe Bleed
- Optional Process Isolation Valve
- NACE compliance available
- Negligible Dead Volume

Process Connection:
1.5" / 2" ANSI #300/#600
Sample Tube: 12mm OD / 8mm ID
Sample Outlet & Bleed port:
1/4" or 1/8" OD

Wetted Parts: SS316, PTFE, VITON
Design Pressure: 100 Kg/cm2 Max
Design Temperature: 180 ºC Max



SR. NO.	ITEM DISCRIPTION	MOC.	SPECIFICATION	QTY.
1	PROBE	SS-316	12 MM OD	1
2	FLANGE	SS-316	1.5" x 300#	1
3	CONAX GLAND	PTFE , SS-316	-	1
4	PRESSURE GAUGE	SS-316	0-100 Kg/cm2	1
5	3-WAY BALL VALVE	SS-316	1/4" OD	1

NOTE :

SR. NO.	ITEM DISCRIPTION	LENGTH (MM)			
A	INSERTION	200	400	600	800
D	OVERALL LENGTH	665	865	1065	1265

Ordering Code

	1	2	3	4	5	6	7	8	9	10	11	12
SRP -	4				X				X	X	X	X

Process Connection

1.5" ANSI # 300 *1	0	0
2" ANSI # 300 *1	0	1
1.5" ANSI # 600 *2	1	0
2" ANSI # 600 *2	1	1

* 1 Pressure Gauge = 25kg/cm2

* 2 Pressure Gauge = 40kg/cm2

Process Isolation Valve

None	X
2-Way Ball Valve	Y

Future Use

None	X
None	X

Bleed Valve

X	None
1	3-Way Ball Valve - 1/8" OD
2	3-Way Ball Valve - 1/4" OD

Retraction Length of Probe

0	2	200 mm
0	4	400 mm
0	6	600 mm
0	8	800 mm (maximum)

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.

SARVESH ANALYTICS Pvt. Ltd.

Regd. Off: # 207, Vinayak Arcade, Akurdi, Pune - 411035, INDIA

Factory: Gat No.188, Jyotibanagar, Talwade, Pune - 411062 INDIA

Email: info@sarveshindia.com

Website: www.sarveshindia.com

Telphone: 91 94 2300 4179





SV-200

Cryogenic Sample Vaporiser

Cryogenic Sample Vaporiser **SV-200** raises the temperature of your Cryogenic Sample Gas to ambient temperature. The powerful Heat Exchanger ensures your sample quickly reaches ambient temperature and avoids condensation on the sample line. A bypass line with Needle valve is also provided for quick flushing at tapping point.

Salient Features

- Easy to Install and Service
- Efficient and Powerful Heat Exchanger
- Thermostat for Over Temperature Protection
- Drain Outlet for Condensate
- All SS 316 Wetted Parts
- 1 x Pt100 for Sample Inlet Temperature
- 2 x Pt100 for Sample Outlet Temperature

Specifications

Flow Rate:	10 LPM max
Heater Wattage:	200 Watts
Power Supply:	230V AC 50 Hz
Mounting Flange:	1.25" or 2" ANSI 150#
End Connections:	
Inlet:	Weld on Bush for 8mmOD tube
Outlet:	6mm OD or 1/4" OD
Dimension:	370 x 230 x 385(H) mm

Notes:
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SV-400

Sample Vaporiser

Sample Vaporiser **SV-400** quickly Vaporises condensates formed during Sample Gas Transport from tapping point to your Analyser. The Multi-pass Heat Exchanger ensures your sample is always at right temperature and in gaseous state. This ensure accurate measurement. The user can set desired Heater Temperature.

Salient Features

- Plug and Play
- For Online Process Analysers
- Efficient Heat Exchanger
- In-Built Temperature Controller
- In-Built Thermostat for Dual Safety
- All SS 316 Wetted Pasts

Specifications

Flow Rate:	6 LPM max
Heater Wattage:	100 Watts
Power Supply:	110 / 230V AC 50 Hz
Temperature:	100 - 200 deg C user Selectable
End Connections:	1/4" NPTF
Dimension:	250(W) x 265(H) x 160(D)
Mounting :	Wall Mount

Notes: - The final responsibility to check whether this product meets the requirement of the Process and / or Analyser remains solely with the customer.
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