



HIGH ACCURACY

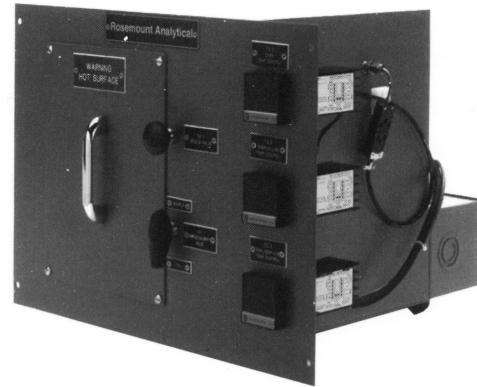
m e a s u r e m e n t i n s t r u m e n t s

PRODUCT DATASHEET

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Heated Sample Gas Conditioning System

- Rugged 19" rack-mount system
- Adjustable gas analysis temperature maximum 375°F
- Oil-free diaphragm pump with safety relief valve
- Heated 316 SS particulate filter
- Calibration gas selector valve



FEATURES

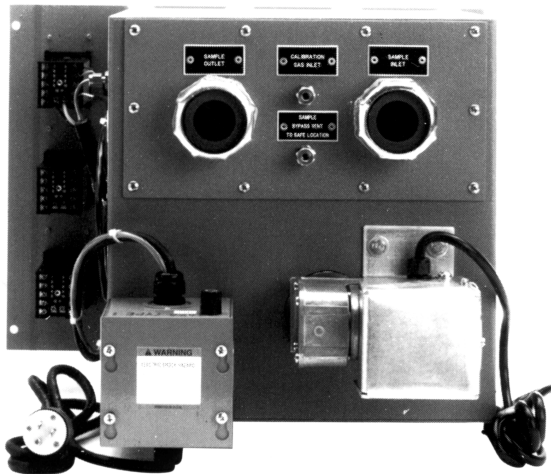


Figure 1. View of Heated Sample Gas Conditioning System

Many gas analyzers are operated at elevated temperatures to eliminate condensation of the sample stream. The Model 6300 Heated Sample Gas Conditioning System is used for wet measurements, wherein moisture or other condensable compounds are maintained in gas phase.

A heated sample pump is used to extract the sample. A safety relief valve prevents over-pressurization of the sample. A sample by-pass line ensures short sample travel time. A 316 SS filter is also included to remove any particulate from the sample and needle valve regulates the sample flow rate prior to sending the sample to the analyzer. Temperature controllers control the analysis temperature and also control the temperature of the sample transport line between the heated sample gas conditioning system and the analyzer(s). An optional temperature controller is also available to control the temperature of the heated sample line between the sample take-off point and the sample gas conditioning system.

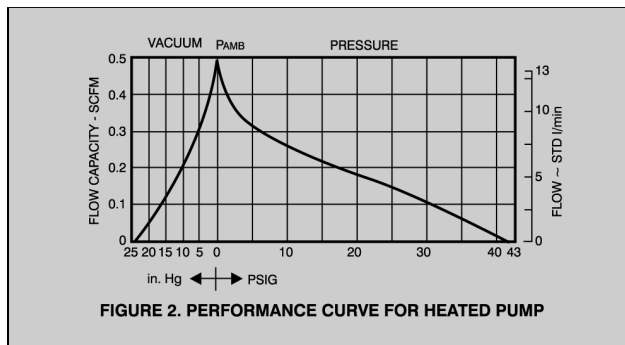


FIGURE 2. PERFORMANCE CURVE FOR HEATED PUMP

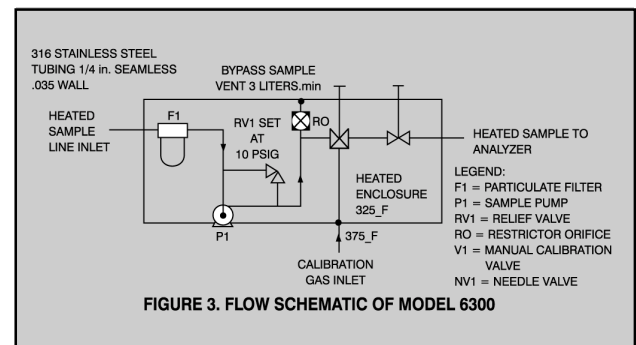


FIGURE 3. FLOW SCHEMATIC OF MODEL 6300

SPECIFICATIONS

Sample Pressure:

Inlet: 30" w.c. vacuum to 5 psig

Outlet: 5 to 9 psig

Sample Temperature: 100 to 375°F (38 to 191°C)

Sample Flowrate: 3 to 5 lpm

Particulate Loading: Designed for pre-filtered, clean samples only. For heavier particulate loading, use quick change filter

Sample Phase: Single phase gas samples only

Ambient Temperature: 32 to 104°F (0 to 40°C)

Wetted Parts: Stainless steel, Teflon, glass fiber, Viton

Electrical Area Classification: General purpose, non-hazardous area only

Dimension: 14" (H) x 19" (W) x 17" (D)

Power: 110 VAC, 60 Hz or 220 VAC, 50 Hz 500 watts without heated line. Add 20 watts per foot of heated line

Separation Distance: Maximum 100 feet from sample take-off point

ORDERING INFORMATION

Model	Description	
6300	Sample Gas Conditioning System – Heated (6300)	
Level 1 Mounting Configuration		
	1	19" rack-mount enclosure
	9	Special (consult factory)
Level 2 Temperature Controller for Heated Lines		
	0	None required
	1	Temperature controller and solid state relay for heated line between take-offs and gas cond.
	9	Special (heated probes, additional temperature controllers, consult factory)
Level 3 Heated Lines Between Heated Sample Conditioning System and Analyzers		
	0	None required
	1	5' sample line (PFA Teflon material)
	2	10' sample line (PFA Teflon material)
	9	Special (consult factory for measurement below 10 ppm)
Level 4 Heated Filter		
	1	Particulate filter (7 micron) for pre-filtered, clean samples only
	2	Quick change (1 micron) filter for heavier particulate loading
	3	Special (consult factory)
Level 5 Electrical Requirements		
	1	115 VAC, 60 Hz
	2	220 VAC, 50 Hz
	3	Special (consult factory)
Level 6 No Selection		
	000	No selection

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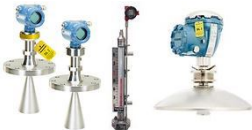










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