

MODEL HFI PURGE GAS CONTROL STATION

For use with **Model HIR**
Claus Thermal Reaction Furnace Infrared Pyrometer

FEATURES

- Accurate continuous control of purge flow rate
- Insures long term temperature measurement reliability by sweeping dust and ash from the pyrometer lens window
- Corrosion resistant, suitable for Sulfur Unit environment
- Available in all stainless steel (NACE compliant)
- Mounts on vertical surface or 2" pipe stand
- Simple, easy installation

APPLICATION

The **Model HFI** Purge Gas Control Station is designed for use with the Delta Controls **Model HIR** Claus Thermal Reactor Infrared Pyrometer. The **HFI** purge control provides the correct purge flow rate regardless of changes in the gas supply pressure. The constant controlled purge flow prevents dust and ash from clinging to the lens window.

Controlling the flow rate also insures that the Model HIR's unique purge pre-heating system provides the necessary flow to keep contaminants from the lens while insuring that sufficient heat is applied to the purge gas to prevent cooling the pyrometer's lens window. Should the lens window be permitted to cool, reaction gases would slowly condense onto the lens glass surface. The resulting sulfur film would, over time, begin to obscure the transmission of IR energy to the sensor causing inaccuracy.



SPECIFICATIONS

Flow Range	4-38 LPM (standard)
Pressure Indicator:	2.5"Ø; 0-60 PSIG (0-4 bar)
Pressure Control Range:	2-50 PSIG (0.1 – 3.5 bar)
Filter:	5 micron sintered polypropylene
Filter Drain:	Manual valve

Materials of Construction:

Flow Meter body:	Stainless Steel
Pressure Regulator Body:	Stainless Steel
Pressure Gauge:	Stainless Steel
Connection Fittings:	Stainless Steel
Panel, and Mounting Hardware:	Stainless Steel

Connection Fittings:

1/8" NPTF
Other sizes and types available

Supply Pressure:

25-250 PSIG (1.75-17 bar)

Supply Gas:

Nitrogen

MODEL NUMBERING SYSTEM

MODEL NO. - EXPOSED MATERIAL - CONNECTION SIZE/TYPE - OPTIONS

MODEL EXAMPLE HFI - BB - NPT - AA

MODEL NO.	
M/N	DESCRIPTION
HFS	COMPLETE FLUSH GAS CONTROL STATION

CONNECTION SIZE/TYPE	
M/N	DESCRIPTION
NPT	1/8" FEMALE PIPE
6mm	6mm TUBING
8mm	8mm TUBING

OPTIONS		
M/N	DESCRIPTION	FLOW RANGE
AA	FOR MODELS HTP, HTX	2-17 lpm
ZZ	SPECIAL	AS SPECIFIED

EXPOSED MATERIAL	
M/N	MATERIALS DESCRIPTION
BB	ALL 300 STAINLESS STEEL, INCLUDING EXTERIORS; NACE COMPLIANT

CLASS 11 SPARE AND INDIVIDUAL PARTS		
P/N	DESCRIPTION	BASE \$
24-098BB	PRESSURE UNIT, ALL S.S.	
24-106AA	5 MICRON FILTER ELEMENT	
24-111BB	PRESSURE CONTROL OVERHAUL KIT, S.S.	
12-056TT	PRESSURE INDICATOR, ALL S.S.	
24-185BB	FLOW METER / FLOWRATE CONTROL, ALL S.S.	



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