

IntegraHeat™ Electric Process Heating Systems

Integrated Flow Solutions IntegraHeat[™] Electric Process Heating Systems are flanged heater bundles & control panels designed in accordance with IFS-607A technical specification to electrically heat liquids and gases.

Industries



Standard Features- Process

- Integraheat[™] Electric Heater Process Sizing Software
- IFS-607A Industrial Grade Electric Process Heater & Control Panel Specification
- Aspen Simulation/Process Guarantee
 - **Element Watt Density Selection by Application**
 - Water 45 watts per square inch
 - Fuel Gas 23 watts per square inch
 - Air 15 watts per square inch
 - Oil
 10 watts per square inch

Standard Features- Electrical

- Non-Hazardous Area Classification
- Control Panel NEMA 4/4X
- Programmable Logic Control (PLC)
 - Outlet or Differential Temperature Control
 - Pressure Control
- "Low Select" Over Ride Logic Control
 - Process & Bundle PID Control Loops
- Load Management Control
- Human Machine Interface (HMI) by Touch Screen Graphic Color Display
- Finger Safe
- Ground Fault Detection
- Heater Bundle Over Temperature Limit
- Silicon Controlled Rectifier (SCR) Power Control
- Rigid Galvanized "On Skid" Conduit
- Analog Wiring 300 Volt, PVC Insulation, 16 AWG Minimum
- Control Power & Digital Wiring 600 Volt, THWN
 Insulation, 14 AWG Minimum
- Power Wiring 600 Volt XHHW-2 or THWN Insulation, 12 AWG Minimum

Standard Features- Mechanical

- Stainless Steel Nameplate Stamped with Project
 Information
- Heavy Duty All Welded Structural Steel Skid Base



Standard Features- Testing

- Hydro Test of Heater Bundle/Housing/Piping
- On Skid Meggar/Continuity Test
- Heater Bundle Meggar/Resistance/High Pot Test
- Control Panel Power/Control Circuitry Test
- Simulated PLC Logic Test

Industry Standards

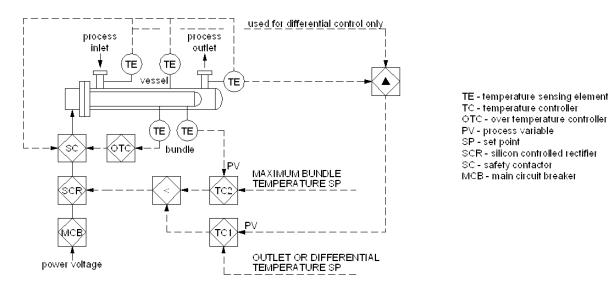
- NEC 500 Control Panel
- TEMA "R" 8th Edition Electric Heater Design
- CSA Heater Bundle Terminal Housing
- ASME Section VIII & National Board Registered Heater Housing
- ANSI B31.1 / ANSI B31.3 Piping, Fittings, Valves
- ASME Section IX Pipe Fabrication
- AWS D1.1 Structural Steel

Standard Options

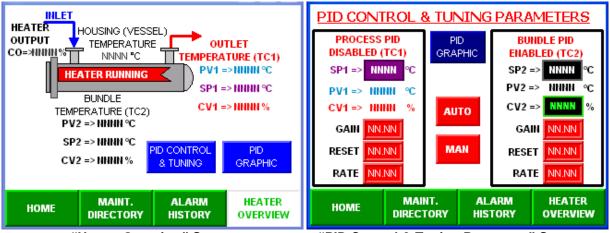
- Hazardous Area Classifications
 - Class 1, Division 1
 - Class 1, Division 2
- On Skid Stainless Steel or Fiberglass Cable Tray
- Offshore Paint
- Heater Housing Insulation

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AUTOMATION and CONTROLS

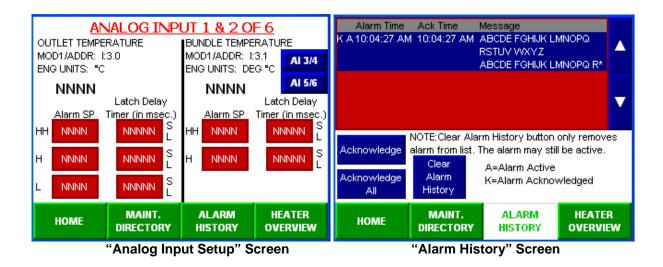






"Heater Overview" Screen

"PID Control & Tuning Parameter" Screen



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