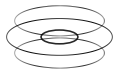


|  <b>TORUS</b> | <div><div></div><div></div> · Owner</div><br><b>PROCESS DATASHEET, E-161 ELECTRIC FUEL GAS PREHEATER</b> | Document No.         | PRO-DS-012             |          |          |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------|------------------------|----------|----------|
|                                                                                                |                                                                                                          | Revision / Date      | A · September 29, 2026 |          |          |
|                                                                                                |                                                                                                          | Issue purpose        | Issued for Review      |          |          |
| PROCESS · PROCESS DATASHEET, E-161 ELECTRIC FUEL GAS PREHEATER                                 |                                                                                                          |                      |                        |          |          |
| Rev.                                                                                           | Date                                                                                                     | Revision description | Prepared               | Reviewed | Approved |
| A                                                                                              | 2026-09-29                                                                                               | Issued for Review    |                        |          |          |
|                                                                                                |                                                                                                          |                      |                        |          |          |

## PROCESS DATA

| Item            | Value                           | Item                 | Value                             |
|-----------------|---------------------------------|----------------------|-----------------------------------|
| Tag             | E-161                           | Line                 | 2"-F-1050-A6, upstream of PCV-161 |
| Fluid           | Natural gas, design composition | Design flow          | 330 lb/h (6,760 scf/h)            |
| Inlet pressure  | 897 to 1,148 psig               | Inlet temperature    | 45 to 120 °F                      |
| Outlet setpoint | 105 °F                          | Design duty, case C1 | 3.98 kW                           |
| Rated power     | 5 kW                            | Design               | 1,440 psig, -20 to 250 °F         |

## CONSTRUCTION AND CONTROLS

| Item             | Value                                                                             |
|------------------|-----------------------------------------------------------------------------------|
| Type             | Explosion-proof immersion heater in a pressure body, Class 600                    |
| Controls         | Outlet temperature controller, sheath high-temperature cutout, low-flow interlock |
| Downstream alarm | Low temperature after PCV-162 at 15 °F                                            |
| Electrical       | Standby-power panel; Class I Div 2 Group D, T3 or better                          |

## NOTES

- Sizing per  PRO-CAL-010, Fuel Gas System. The 105 °F setpoint keeps the PCV-161 outlet at or above 40 °F and the PCV-162 outlet at or above 20 °F in every case.
- Heater construction: Vendor to confirm (HOLD H-15).
- Process data only. The mechanical, instrument and electrical datasheets complete the purchase specification.
- Pressures are gauge unless stated. Standard conditions are 14.73 psia and 60 °F; local atmospheric pressure is 14.10 psia.
- Values marked HOLD H-15 are typical and shall be confirmed by the selected vendor.

