

Indirect-Fired Heater

Prevent hydrate formation, reduce viscosity, and break down emulsions

APPLICATIONS

- Operations requiring the heating of well effluents

BENEFITS

- Improved efficiency through hydrate formation prevention, viscosity reduction, and emulsion break down

FEATURES

- Vessel for water bath at atmospheric pressure
- Split coil with intermediate choke
- Adjustable choke with a 1.5-in seat and a solid-stem tip
- Three 3.125-in gate valves rated to 5,000-psi working pressure
- Diesel shutdown valve controlled by pilot-light stoppage and temperature controller
- Flame arrestor on burner air inlet
- Spark arrestor on chimney exhaust

The skid-mounted indirect-fired diesel heater is used for raising the temperature of well effluents to prevent hydrate formation, reduce viscosity, and break down emulsions.

This unit consists of a vessel for water bath at atmospheric pressure, a 4-in [102-mm] split coil with intermediate choke, and an adjustable choke with a 1.5-in [38-mm] seat and solid-stem tip. A manifold is equipped with three 3.125-in [79-mm] gate valves rated to 5,000-psi [34-MPa] working pressure.

The heater also includes a diesel shutdown valve actuated by a pilot-light stoppage and temperature controller, a flame arrestor on the burner air inlet, and a spark arrestor on the chimney exhaust.



Indirect-fired heater.

Specifications

Model	IHT-BAG
Service	H ₂ S
Fluid class	DD
Working temperature, degF [degC]	32 to 200 [0 to 93]
Working pressure (coil), psi [MPa]	5,000 [34] upstream and downstream from the choke
Heating capacity, MMBtu/h [J/h]	2 [2,120]
Diesel consumption, galUS/h [L/h]	29 [110]
Effluent inlet connection	3-in Fig 1002 Female
Effluent outlet connection	3-in Fig 1002 Male
Diesel inlet connection	¼-in NPT
Electrical supply	400 V AC at 60 Hz, 10 A
Footprint, ft × ft [m × m]	19.4 × 7.4 [5.90 × 2.25]
Height, ft [m]	13.1 [4.0] with chimney
Weight, lbm [kg]	33,069 [15,000]
Certifications	
Design	Type Approval/Design Verification Review
Manufacturing	Certificate of Conformity
Documentation	Quality File and Load Test
Applicable codes	ANSI B31.3, API-6A (PSL-2), API-12K, H ₂ S (NACE MR0175)
Optional accessories	Set of D58 choke beans, part number P582643