

Cata-Dyne™ Line Heaters

The Cata-Dyne™ Line Heater is used to increase the temperature of gaseous fluids to avoid the formation of hydrates during pressure drop. The heater is designed for use in Class I, Division 1 or 2, Group D hazardous locations.

General Description

- The Cata-Dyne™ Line Heater consists of Cata-Dyne™ gas catalytic heaters mounted within a self-contained stainless steel structure. Heaters are strategically positioned to apply direct infrared heat at a pre-determined thermal density to an interior offset serpentine tube heat exchanger.

- The uniform diameter offset serpentine configuration is designed to promote high velocity turbulent flow resulting in maximum transfer of energy to the gas stream.

Features

- Cata-Dyne™ gas catalytic heaters provide infrared energy through a chemical reaction resulting in a quieter heating system.
- The heater does not require the use of glycol to transfer heat.
- The flanged and serpentine tube heat exchanger is designed for quick installation.
- All Cata-Dyne™ gas catalytic heaters and unit enclosures are made with stainless steel, limiting corrosion and maintenance.
- Automatic units feature control panels that are custom engineered with simple to state-of-the-art PLC controlled systems. Heat is applied only when required, and at the rate required, reducing operating costs.



Table 10 - Cata-Dyne™ Line Heater Models

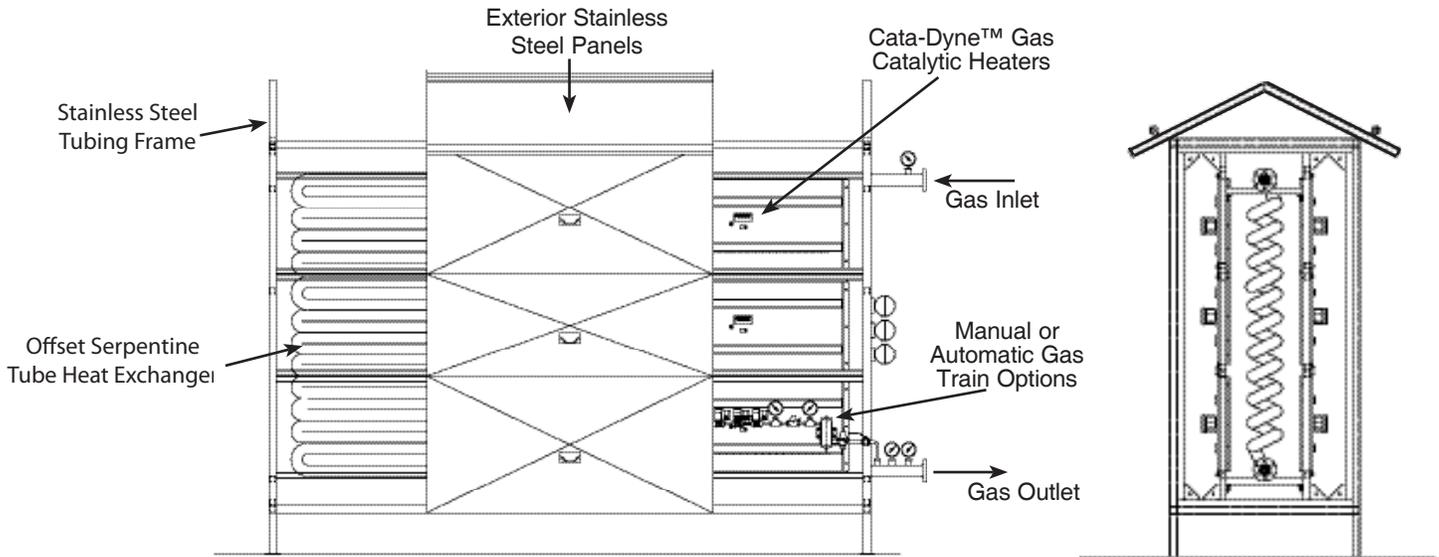
Model	Output(Btu/hr)			External Dimensions (ft.)		
	Minimum Manual	Automatic	Maximum	Length	Width	Height
S2-1	18,200	18,200	62,400	7.25	4.50	5.25
S4-2	36,400	18,200	124,800	7.25	4.50	7.50
S8-2	72,800	36,400	249,600	13.50	4.50	7.50
S12-3	109,200	36,400	374,400	13.50	4.50	9.75
S18-3	163,800	54,600	561,600	19.75	4.50	9.75
S32-4	145,600	72,800	998,400	26.00	5.50	12.00
S40-4	182,000	91,000	1,248,000	32.25	5.50	12.00
S48-4	218,400	109,200	1,497,600	38.50	5.50	12.00
S56-4	254,800	127,400	1,747,200	44.75	5.50	12.00

Applications

Cata-Dyne™ Line Heaters are used for a variety of applications in the Oil & Gas and Power Generation industries.

Common applications include heating:

- High pressure natural gas prior to pressure reduction to prevent the formation of hydrates.
- Fuel gas for natural gas fired turbines.
- Thick oils to improve ease of distribution.

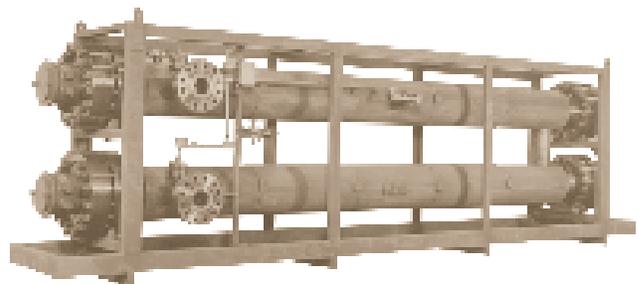


Other Line Heating Technologies from CCI Thermal

CCI Thermal manufactures electric heating equipment and has a team of experienced engineers ready to custom design a system for your application.



Caloritech™ Clamp-On Heater System
 • 58 kW, 250°F / 3500 psig, 15 W/in²



Caloritech™ Circulation Heater System
 • 800 kW, 200°F / 3000 psig, 25 W/in²

Visit us at www.ccithermal.com for more information.