



CCI Thermal
Technologies INC.
Heating and Filtration Solutions

CATA-DYNE



Cata-Dyne™ Catalytic Heater
Enclosure Packages



CCI Thermal Technologies INC.

Heating and Filtration Solutions

CCI Thermal Technologies Inc. is the leading supplier of heated explosion-proof solutions for the natural gas processing industry. Our products include explosion-proof heater enclosures, instrument gas preheaters and super conductor instrument enclosure heaters.

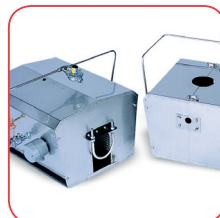
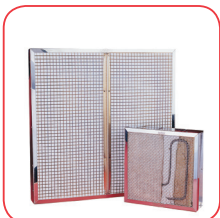
Cata-Dyne™ Catalytic Heater Enclosure Packages

The Cata-Dyne™ Catalytic Heater Enclosure Packages use radiant heat to prevent freezing and hydrate formations found in natural gas pipeline pressure reduction locations, natural gas metering, measuring and valves.

The heart of the Cata-Dyne™ heater enclosure assembly is the industry standard Cata-Dyne™ WX, BX and WXS gas catalytic heater. The Cata-Dyne™ WX, BX and WXS brings trademark quality, durability and performance to provide the most consistently reliable radiant heat source available. Mounted within a self contained stainless steel enclosure, heater locations are strategically positioned to apply direct infrared heat to meters, valves and controls.

Features

- Enclosure comes fully assembled
- Stainless steel enclosures provide added longevity for the harshest environments
- Cata-Dyne™ heaters are CSA or FM certified, available in both natural gas or propane
- Optional thermostats and regulators are available
- Designed to clamp directly to the pipeline, spring clamps make installation easy
- Custom designed enclosure packages available upon request



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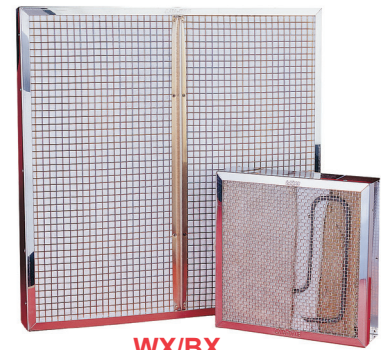
Cata-Dyne™ Explosion-Proof Gas Catalytic Heaters

The Cata-Dyne™ WX, BX and WXS Slim Line series explosion-proof gas catalytic heaters are the industry standard for radiant heating applications in hazardous environments. These heaters are available with gas, electrical and accessory connections on the back of the heaters.

The explosion-proof catalytic technology used in the WX, BX and WXS series is the most efficient in the industrial heating market, and the versatility and reliability of the WX, BX and WXS has made them the heater of choice for many customers throughout the world.

TABLE 1 - Fuel and Electrical Rating Data

Model #	Max. Gas Input		Pre-Start Element Amperage		
	Btu/hr	kW	12V	120V	240V
	Natural Gas/Propane	Natural Gas/ Propane			
Cata-Dyne™ WX Series Explosion-Proof Catalytic Heaters - CSA and FM					
WX0606	1250	0.366	7.1	0.7	0.4
WX0612	2500	0.732	7.1	0.7	0.4
WX0624	5000	1.464	15.0	2.1	1.0
WX0808	2222	0.651	7.1	0.7	0.4
WX1012	4167	1.220	15.0	2.1	1.0
WX1212	5000	1.464	15.0	2.1	1.0
WX1224	10000	2.929	30.0	4.2	2.1
Cata-Dyne™ BX Series Explosion-Proof Catalytic Heaters - FM only					
BX0606	1500	0.440	7.1	0.7	0.4
BX0612	3000	0.879	7.1	0.7	0.4
BX0624	6000	1.758	15.0	2.1	1.0
BX0808	2667	0.782	7.1	0.7	0.4
BX1012	5000	1.465	15.0	2.1	1.0
BX1212	6000	1.758	15.0	2.1	1.0
BX1224	12000	3.517	30.0	4.2	2.1
Cata-Dyne™ WXS Slim Line Series Explosion-Proof Catalytic Heaters - FM only					
WXS0606	1750	0.513	7.1	0.7	0.4
WXS0612	3500	1.025	7.1	0.7	0.4
WXS0624	7000	2.050	15.0	2.1	1.0
WXS0808	3111	0.911	7.1	0.7	0.4
WXS1012	5883	1.708	15.0	2.1	1.0
WXS1212	7000	2.050	15.0	2.1	1.0
WXS1224	14000	4.100	30.0	4.2	2.1



WX/BX



WXS

Note: Please call factory for other voltages and heaters sizes.

Model Coding

W 1224 1 1 1 1 1 1

MODEL SERIES
 W - WX SERIES
 H - BX SERIES
 WXS - WXS SERIES

HEATER SIZE

HEATER VOLTAGE*
 0 - NO ELEMENTS
 1 - 12 VOLT
 2 - 120 VOLT
 4 - 240 VOLT
 9 - 12 VOLT/375W

THERMAL SENSOR
 0 - NONE
 1 - THERMOCOUPLE &
 SAFETY SHUT-OFF VALVE
 2 - H19 THERMOCOUPLE

CATALYST PAD
 1 - WX PAD
 4 - BX/WXS PAD

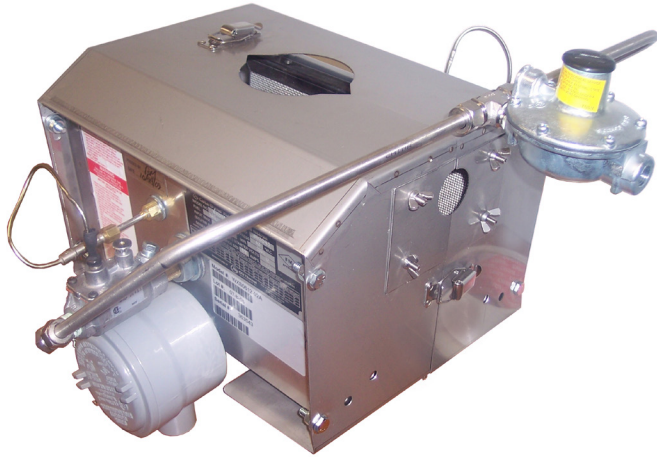
BOX BRACKET STYLE
 0 - SPECIAL
 1 - SHORT SIDE
 2 - LONG SIDE
 3 - PERIMETER SIDE FLANGE
 4 - PERIMETER BACK FLANGE
 5 - FACE TABS
 6 - FLAT BRACKETS
 7 - ANGLE SIDE BRACKETS
 8 - OLD STYLE "L" BRACKETS
 9 - PERIMETER FLANGE,
 BACK LOADING

CERTIFICATION
 0 - NONE
 1 - CSA
 2 - FM

FUEL RATING
 1 - NATURAL GAS (7" W.C.)
 2 - PROPANE (11" W.C.)
 3 - NATURAL GAS (3.5" W.C.)
 4 - NATURAL GAS (4.5" W.C.)

***Note:** Please call factory for other voltages and heater sizes.

Regulator Enclosure

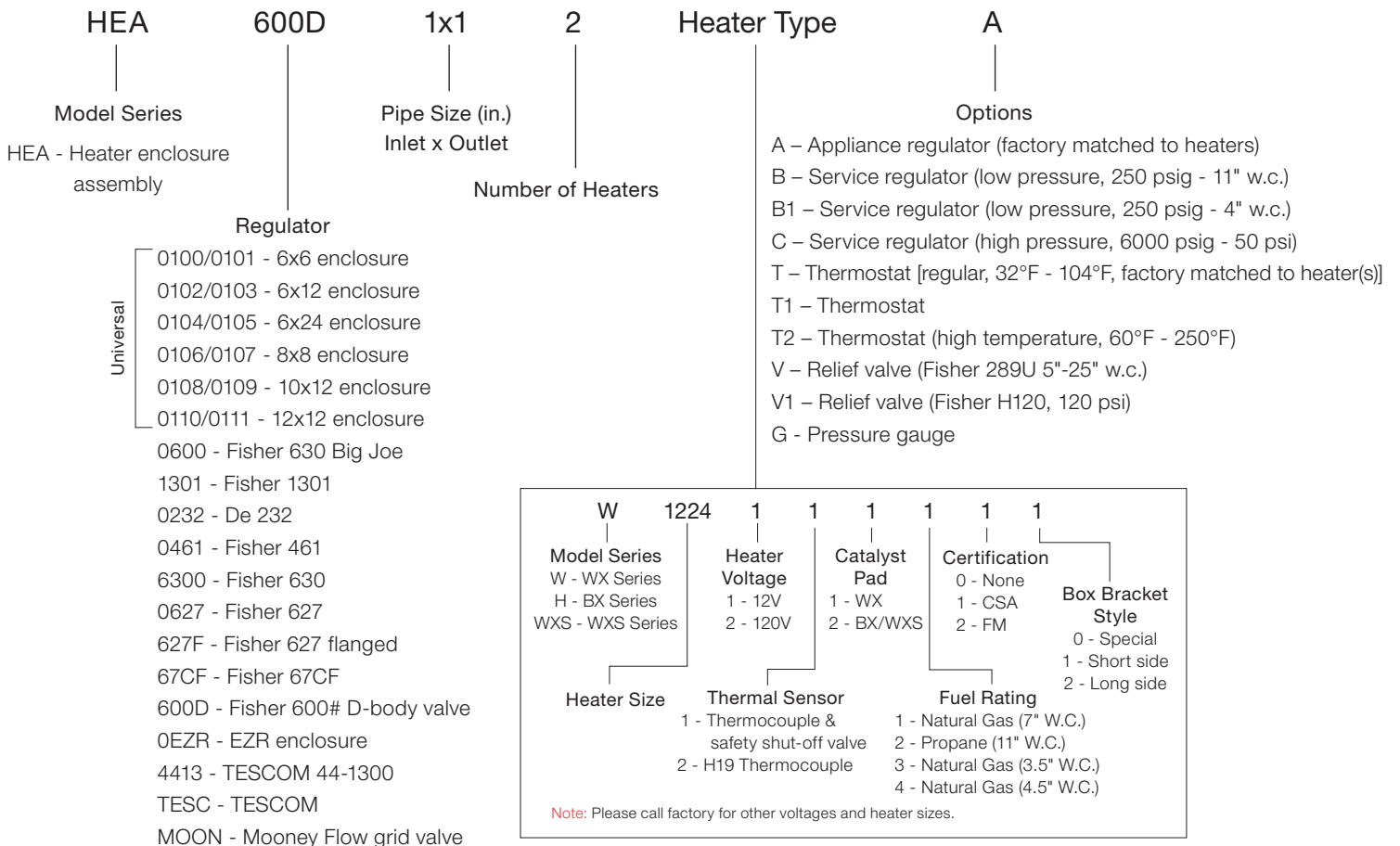


Features

- Enclosure comes fully assembled
- Stainless steel enclosures provide added longevity for the harshest environments
- Cata-Dyne™ heaters are CSA or FM certified, available in both natural gas or propane
- Optional thermostats and regulators are available
- Designed to clamp directly to the pipeline, spring clamps make installation easy
- Custom designed enclosure packages available upon request

The Regulator Enclosure is specifically designed to provide freeze protection for a wide variety of natural gas pipeline regulators. Enclosures are designed for specific regulators and generic applications.

Model Coding



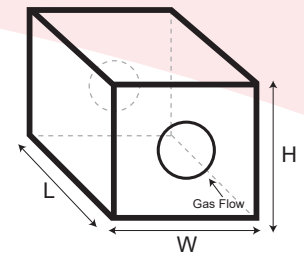


TABLE 2 - Regulator Enclosures

Model No. *	Description	Dimensions		
		L	W	H
		in (mm)	in (mm)	in (mm)
HEA0100-1X1-1-__0606	Enclosure, Universal 1 and 2" inlet pipe	10.125 (257)	8.375 (213)	8.563 (218)
HEA0101-1X1-2-__0606	Enclosure, Universal 1 and 2" inlet pipe	10.125 (257)	8.375 (213)	8.563 (218)
HEA0102-1X1-1-__0612	Enclosure, Universal 1 and 2" inlet pipe	12.250 (311)	11.000 (279)	8.250 (210)
HEA0103-1X1-2-__0612	Enclosure, Universal 1 and 2" inlet pipe	12.250 (311)	11.000 (279)	8.250 (210)
HEA0104-1X1-1-__0624	Enclosure, Universal 1 and 2" inlet pipe	24.500 (622)	11.000 (279)	8.250 (210)
HEA0105-1X1-1-__0624	Enclosure, Universal 1 and 2" inlet pipe	24.500 (622)	11.000 (279)	8.250 (210)
HEA0106-1X1-2-__0808	Enclosure, Universal 1 and 2" inlet pipe	12.125 (308)	14.125 (359)	10.188 (259)
HEA0107-1X1-2-__0808	Enclosure, Universal 1 and 2" inlet pipe	12.125 (308)	14.125 (359)	10.188 (259)
HEA0108-1X1-1-__1012	Enclosure, Universal 1 and 2" inlet pipe	14.000 (356)	16.000 (406)	14.000 (356)
HEA0109-1X1-2-__1012	Enclosure, Universal 1 and 2" inlet pipe	14.000 (356)	16.000 (406)	14.000 (356)
HEA0110-1X1-1-__1212	Enclosure, Universal 1 and 2" inlet pipe	14.000 (356)	16.000 (406)	14.000 (356)
HEA0111-1X1-2-__1212	Enclosure, Universal 1 and 2" inlet pipe	14.000 (356)	16.000 (406)	14.000 (356)
HEA-1301-1X1-1-__0606	Enclosure, 1301 Regulator	6.375 (162)	9.000 (229)	8.375 (213)
HEA-0232-1X1-1-__0606	Enclosure, DE 232 Regulator, Basic	10.125 (257)	8.375 (213)	8.563 (218)
HEA-0461-1X1-2-__0808	Enclosure, Fisher 461-S Regulator Flanged	17.625 (448)	19.183 (487)	11.750 (298)
HEA-0461-3X3-1-__0808	Enclosure, Fisher 461-X57 Regulator, High Pressure	8.250 (210)	19.183 (487)	10.313 (262)
HEA-0600-1X1-2-__0808	Enclosure, 600 Series Reg, "BIG JOE"	12.125 (308)	14.125 (359)	10.188 (259)
HEA-0600-1X1-2-__0612	Enclosure, 600 Series Reg, "BIG JOE"	12.250 (311)	11.000 (279)	8.250 (210)
HEA-0600-1X1-2-__0612	Enclosure, 600 Series Reg, "BIG JOE", Flanged	12.250 (311)	11.000 (279)	8.250 (210)
HEA-0600-1X1-2-__1212	Enclosure, Fisher 630 Regulator	12.125 (308)	15.188 (386)	14.188 (360)
HEA-0627-1X1-2-__0808	Enclosure, Fisher 627 Regulator	12.125 (308)	12.500 (318)	7.500 (191)
HEA-627F-1X1-1-__1212	Enclosure, Fisher 627 Regulator Flanged	16.250 (413)	20.438 (519)	14.063 (357)
HEA-627F-1X1-1-__0808	Enclosure, Fisher 627 Regulator Flanged	16.250 (413)	20.438 (519)	14.063 (357)
HEA-0627-2X2-1-__0808	Enclosure, Fisher 627 Regulator	15.063 (383)	15.125 (384)	13.000 (330)
HEA-0627-1X1-1-__0808	Enclosure, Fisher 627 Regulator	15.063 (383)	15.125 (384)	13.000 (330)
HEA-0627-2X2-1-__1012	Enclosure, Fisher 627 Regulator	12.125 (308)	12.833 (326)	10.500 (267)
HEA-67CF-1X1-1-__0606	Enclosure, 67CF Regulator	6.438 (164)	9.000 (229)	8.375 (213)
HEA-600D-3X3-2-__1012	Enclosure, Similar to 600# Fisher D-Body Valve	21.625 (549)	15.625 (397)	12.500 (318)
HEA-0EZR-2X2-2-__1212	Enclosure, Fisher 2" EZR Regulator	20.625 (524)	28.125 (714)	23.125 (587)
HEA-0EZR-1X1-2-__1212	Enclosure, Fisher 1" EZR Regulator	20.625 (524)	28.125 (714)	23.125 (587)
HEA-0EZR-3X3-2-__1212	Enclosure, Fisher 3" EZR Regulator	20.625 (524)	28.125 (714)	23.125 (587)
HEA-0EZR-4X4-2-__1212	Enclosure, Fisher 4" EZR Regulator	20.625 (524)	28.125 (714)	23.125 (587)
HEA-0EZR-6X6-2-__1212	Enclosure, Fisher 6" EZR Valve, CL 600	20.625 (524)	28.125 (714)	23.125 (587)
HEA-0EZR-8X8-2-__1212	Enclosure, Fisher 6" EZR Valve 8" x 6" Pipe Size	20.625 (524)	28.125 (714)	23.125 (587)
HEA-MOON-2X2-2-__1212	Enclosure, Mooney Flowgrid Valve	14.750 (375)	14.125 (359)	14.125 (359)
HEA-TESC-2X2-1-__0612	Enclosure, Tescom Regulator	12.000 (305)	10.000 (254)	7.000 (178)
HEA-4413-1X1-1-__0606	Enclosure, Tescom 44-1300 Reg	11.125 (283)	10.313 (262)	8.750 (222)

*Note: __ = WX, BX or WXS.

Pipe Preheater Enclosure

The Pipe Preheater Enclosure is designed to heat gas upstream of valves, chokes, orifice fittings and regulators. Commonly installed in locations where the valves, chokes, orifice fittings and regulators are not easily accessible.

Features

- Enclosure comes fully assembled
- Stainless steel enclosures provide added longevity for the harshest environments
- Cata-Dyne™ heaters are CSA or FM certified, available in both natural gas or propane
- Optional thermostats and regulators are available
- Designed to clamp directly to the pipeline, spring clamps make installation easy
- Custom designed enclosure packages available upon request

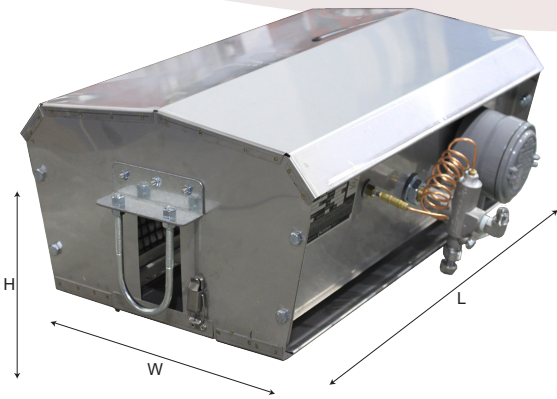
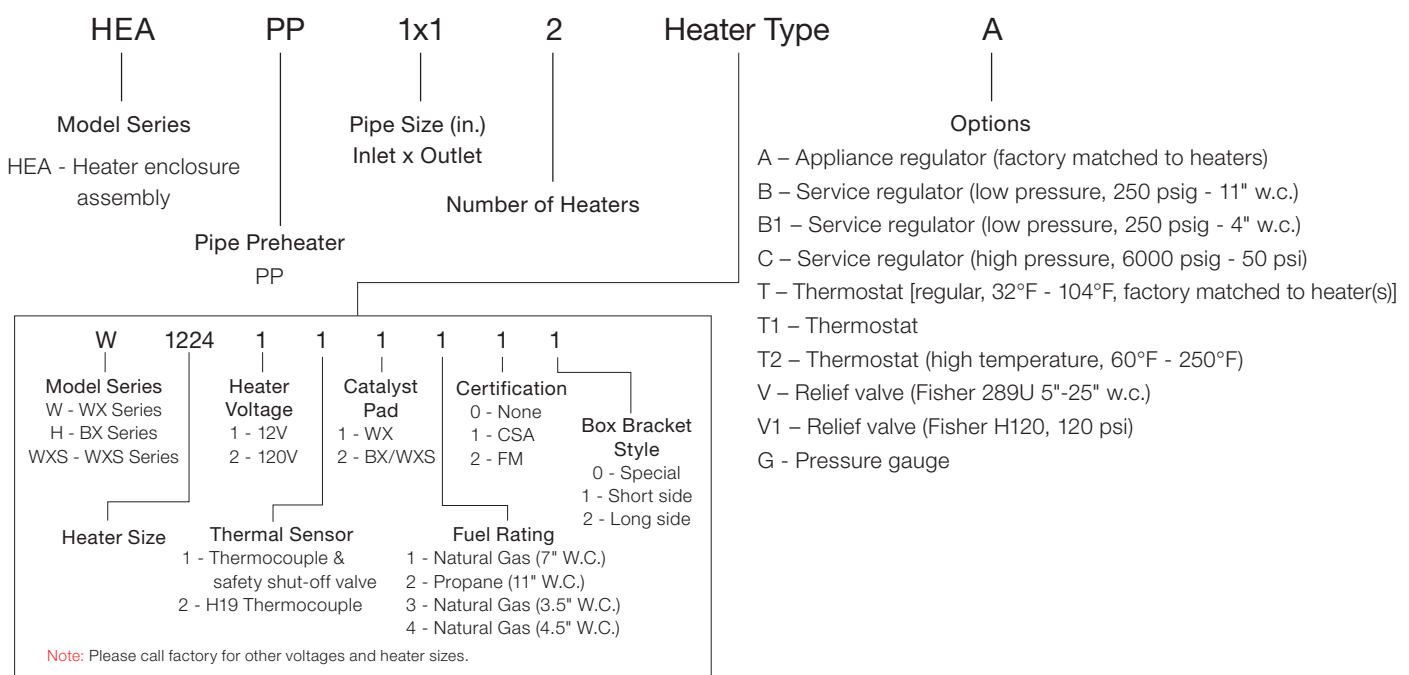


TABLE 3 - Pipe Preheater Enclosures

Model No.	Description	Dimensions		
		L	W	H
		in (mm)	in (mm)	in (mm)
HEA-PP-2X2-2-WX0624	Enclosure, 2" Pipe Preheater	24.000 (610)	12.000 (305)	9.000 (229)
HEA-PP-3X3-2-WX1224	Enclosure, 3" Pipe Preheater	24.000 (610)	20.000 (508)	15.500 (394)
HEA-PP-4X4-2-WX1224	Enclosure, 4" Pipe Preheater Peeked Top	25.000 (635)	12.000 (305)	15.000 (381)
HEA-PP-2X2-2-WX12X24	Enclosure, 2" Pipe Preheater	24.000 (610)	20.000 (508)	16.000 (406)
HEA-PP-2X2-2-WX0612	Enclosure, 2" Pipe Preheater	16.375 (416)	9.250 (235)	12.250 (311)
HEA-PP-4X4-2-WX1224	Enclosure, 4" Pipe Preheater	12.625 (321)	20.000 (508)	36.0625 (916)
HEA-PP-1X1-2-WX1224	Enclosure, 1" Pipe Preheater Rectangular	36.000 (914)	13.000 (330)	20.000 (508)
HEA-PP-2X2-2-WX0624	Enclosure, 2" Pipe Preheater c/w Dual Gas Trains	24.000 (610)	13.000 (330)	9.000 (229)
HEA-PP-4X4-2-WX1248	Enclosure, 4" Pipe Preheater	51.000 (1294)	20.000 (508)	20.000 (508)
HEA-PP-3X3-2-WX1248	Enclosure, 3" Pipe Preheater	51.000 (1294)	21.000 (533)	15.000 (381)
HEA-PP-1X1-2-WX1248	Enclosure, 1" Pipe Preheater	51.000 (1294)	21.000 (533)	15.000 (381)
HEA-PP-2X2-2-WX1248	Enclosure, 2" Pipe Preheater, c/w 12x48	48.000 (1219)	28.000 (711)	15.000 (381)
HEA-PP-1.5X1.5-WX0624	Enclosure, 1.5" Pipe Preheater, Double 6x24 Heaters	24.000 (610)	12.000 (305)	9.000 (229)

Model Coding



Rotary Meter Enclosure

The Rotary Meter Enclosure is designed to prevent freezing of wet gas and creation of hydrates that can cause meters to fail or provide inaccurate readings.

Features

- Designed to suit many different rotary meter valves
- Enclosure comes fully assembled
- Stainless steel enclosures provide added longevity for the harshest environments
- Cata-Dyne™ heaters are CSA or FM certified, available in both natural gas or propane
- Optional thermostats and regulators are available
- Designed to clamp directly to the pipeline, spring clamps make installation easy
- Custom designed enclosure packages available upon request

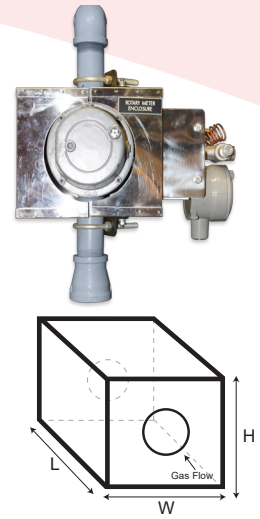
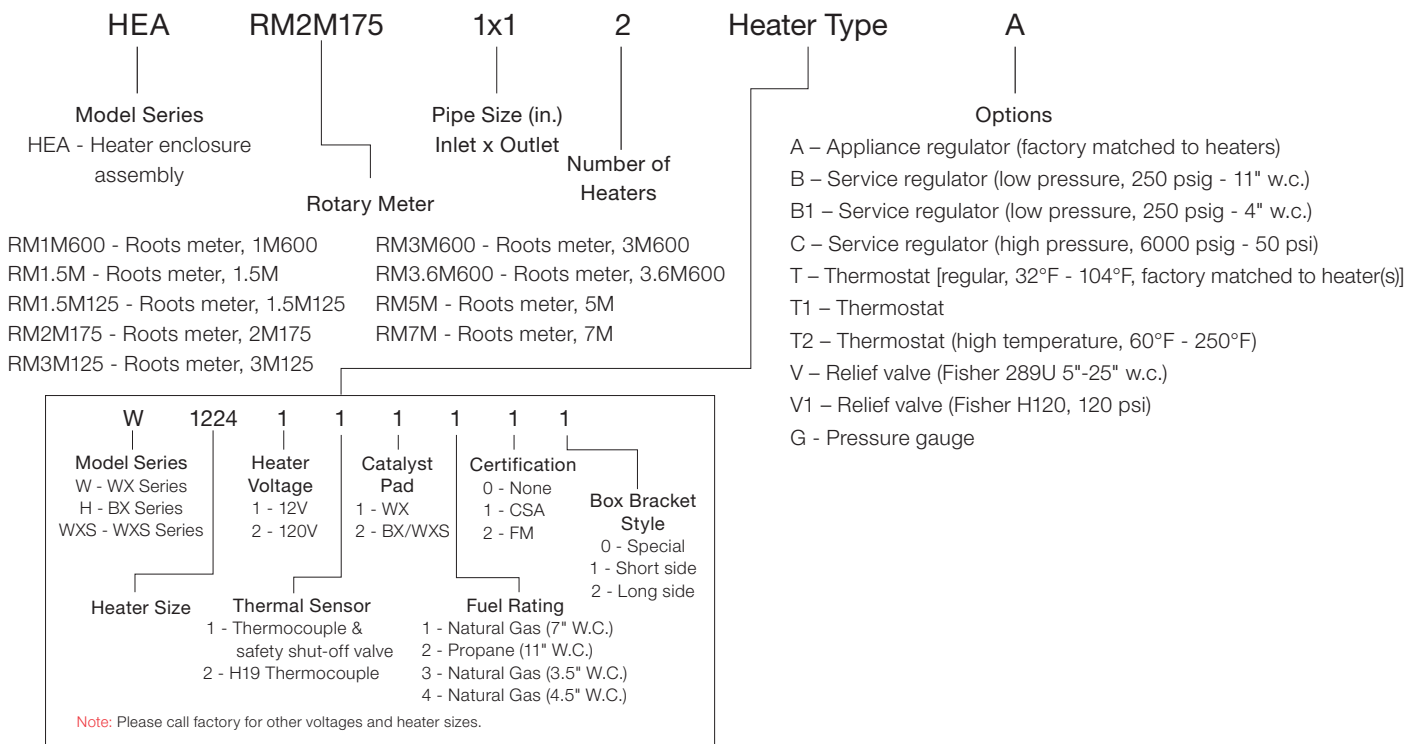


TABLE 4 - Rotary Meter Enclosures

Model No.	Description	Dimensions		
		L	W	H
		in (mm)	in (mm)	in (mm)
HEA-RM1M600-2X2-1-WX0808	Enclosure, Roots 1M600 Meter	15.00 (381)	14.50 (368)	15.00 (381)
HEA-RM1.5M-2X2-1-WX0808	Enclosure, Roots 1.5M Meter	10.00 (254)	11.00 (279)	10.00 (254)
HEA-RM2M175-2X2-1-WX0808	Enclosure, 2M175 Meter	12.00 (305)	12.00 (305)	10.00 (254)
HEA-RM3M125-2X2-1-WX0808	Enclosure, 3M125 Meter	12.00 (305)	12.00 (305)	10.00 (254)
HEA-RM3.6M600-2X2-1-WX0808	Enclosure, Roots 3.6M600 Meter	15.00 (381)	16.00 (406)	14.00 (356)
HEA-RM1.5M-3X3-1-WX0612	Enclosure, Roots 1.5M Meter	14.00 (356)	10.00 (254)	10.00 (254)
HEA-RM1M600-3X3-1-WX0612	Enclosure, Roots 1M600 Meter	16.00 (406)	14.00 (356)	14.00 (356)
HEA-RM3M125-2X2-1-WX0612	Enclosure, Roots 3M125 Meter	11.00 (279)	16.00 (406)	15.00 (381)
HEA-RM3M600-3X3-1-WX0612	Enclosure, Roots 3M600 Meter	15.00 (381)	15.00 (381)	14.00 (356)
HEA-RM5M-3X3-1-WX0808	Enclosure, Roots 5M	11.00 (279)	16.00 (406)	11.00 (279)
HEA-RM5M-3X3-1-WX0612	Enclosure, Roots 5M	11.00 (279)	16.00 (406)	11.00 (279)
HEA-RM7M-3X3-1-WX1012	Enclosure, Roots 7M	15.00 (381)	15.00 (381)	16.00 (406)

Model Coding

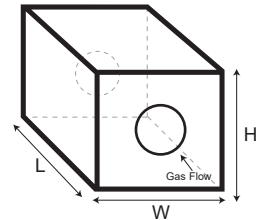


Motor Valve Enclosure



Features

- Designed to ensure that all the sensitive portions of the valve are outside of the heated zone
- Enclosure comes fully assembled
- Stainless steel enclosures provide added longevity for the harshest environments
- Cata-Dyne™ heaters are CSA or FM certified, available in both natural gas or propane
- Optional thermostats and regulators are available
- Designed to clamp directly to the pipeline, spring clamps make installation easy
- Custom designed enclosure packages available upon request

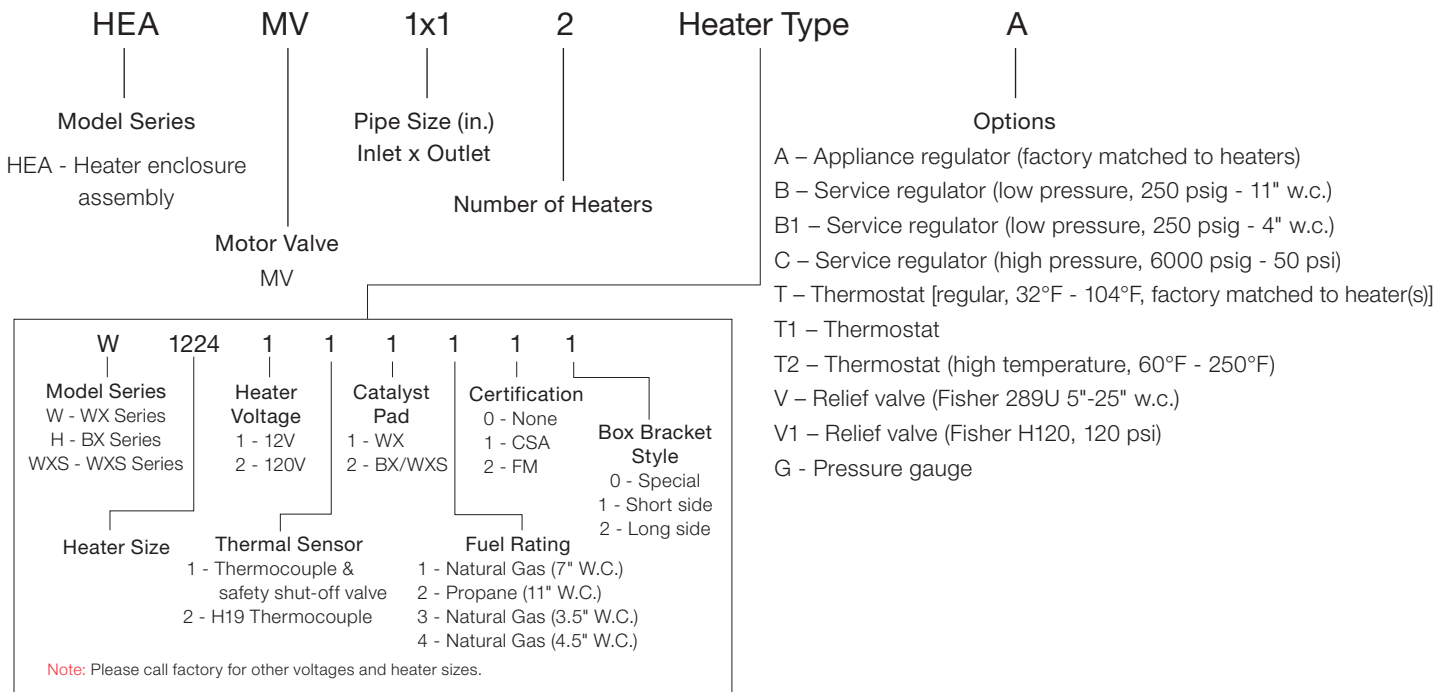


The Motor Valve Enclosure heats the critical portions of the motor valve to prevent freezing.

TABLE 5 - Motor Valve Enclosures

Model No.	Description	Dimensions		
		L	W	H
		in (mm)	in (mm)	in (mm)
HEA-MV1-1X1-1-WX10X12	Enclosure, 1" Motor Valve	9.625 (244)	12.000 (305)	14.125 (359)
HEA-MV2-2X2-2-WX10X12	Enclosure, 2" Motor Valve	14.000 (356)	9.500 (241)	12.000 (305)
HEA-MV1-1X1-2-WX0808	Enclosure, 1" Motor Valve	10.000 (254)	8.000 (203)	10.563 (268)

Model Coding



Orifice Fitting Meter Enclosure

The Orifice Fitting Meter Enclosure heats an orifice fitting directly. The enclosure has an easily accessible entry for the orifice fitting adjustment. The assembly is designed to heat natural gas passing through the orifice to prevent icing and the dropout of liquids.

Features

- Designed to heat the orifice fitting directly
- Enclosure comes fully assembled
- Stainless steel enclosures provide added longevity for the harshest environments
- Cata-Dyne™ heaters are CSA or FM certified, available in both natural gas or propane
- Optional thermostats and regulators are available
- Designed to clamp directly to the pipeline, spring clamps make installation easy
- Custom designed enclosure packages available upon request

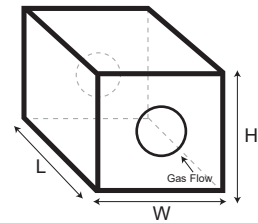
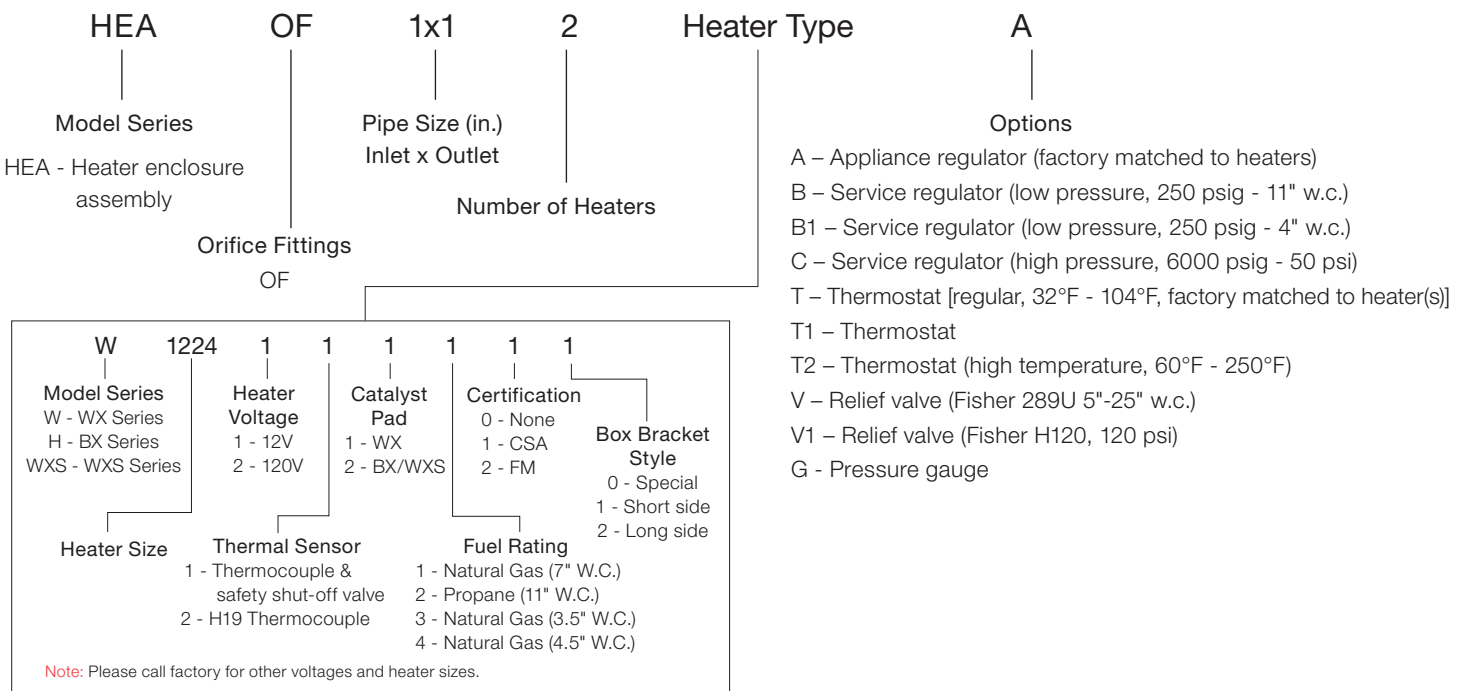


TABLE 6 - Orifice Fitting Meter Enclosures

Model No.	Description	Dimensions		
		L	W	H
		in (mm)	in (mm)	in (mm)
HEA-OF-2X2-1-WX1012	Orifice Fitting	14 (356)	16 (406)	14 (356)
HEA-OF-3X3-1-WX1012				
HEA-OF-4X4-1-WX1012				

Model Coding



Super Conductor Enclosure



The Super Conductor Enclosure's innovative design transfers heat using heat conducting rods, creating a moisture free heat source. The super conductor provides dry penetrating heat for small enclosures housing batteries, radio controls and other moisture sensitive equipment.

Features

- Designed to keep instrumentation at an operable temperature
- Electrical power is not required to maintain operation after start-up
- Designed to operate for extended periods of time without maintenance
- Cata-Dyne™ heaters are CSA and FM certified, available in both natural gas and propane
- Custom sizes and designs available

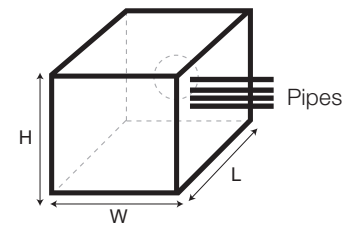
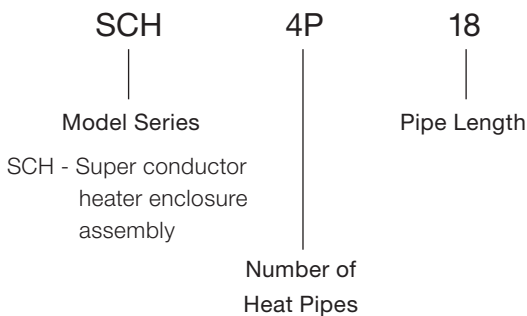


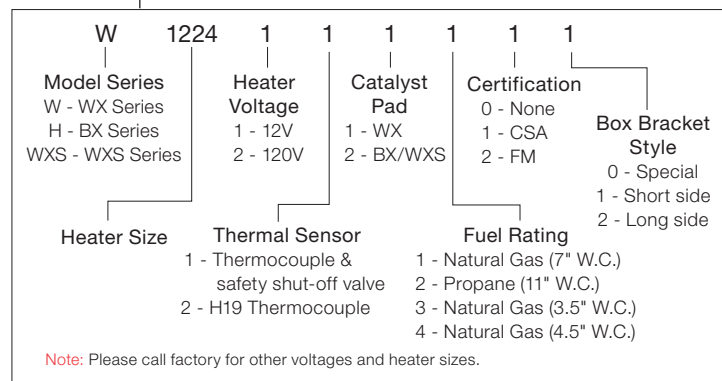
TABLE 7 - Super Conductor Enclosures

Part No.	Pipe Qty	Pipe Length in (mm)	Heater Size in	Length in (mm)	Width in (mm)	Height in (mm)	Pipe Length in (mm)
SCH-4P-18-0808	4	18 (457)	8 x 8	17.30 (439)	17.20 (437)	10.40 (264)	8.50 (216)
SCH-4P-24-0808		24 (610)	8 x 8	17.30 (439)	17.20 (437)	10.40 (264)	14.50 (368)
SCH-4P-33-1212		33 (838)	12 x 12	17.30 (439)	19.00 (478)	14.75 (375)	19.50 (495)

Model Coding



Heater Type



Instrument Gas Preheater

The Instrument Gas Preheater is the preferred solution for the natural gas industry, providing freeze protection for instrument supply gas, pilot actuated regulators and related applications.

Features

- Stainless steel enclosure with both single & dual coil models
- Cata-Dyne™ heaters are CSA and FM certified, available in both natural gas and propane
- Operates for extended periods, without maintenance
- The compact unit helps eliminate the need for a separate facility to keep gas temperatures optimal
- Often used for gas chromatographs, valves, pilots and other low flow instruments
- Custom sizes and designs available

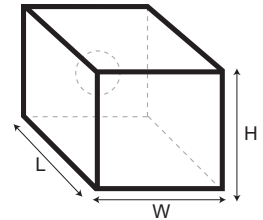
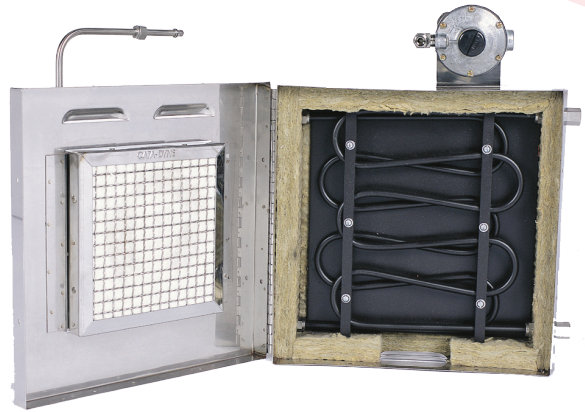
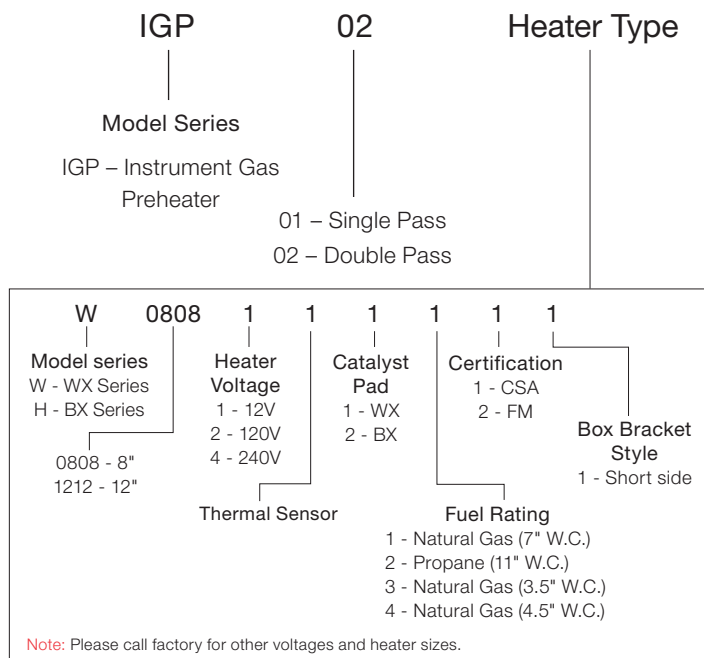


TABLE 8 - Instrument Gas Preheater

Part No.	Coils	Heater Size in	Length in (mm)	Width in (mm)	Height in (mm)
IGP-01-__0808	Single Pass	8 x 8	6 (152)	14 (356)	14 (356)
IGP-02-__0808	Double Pass	8 x 8	6 (152)	14 (356)	18 (457)
IGP-01-__1212	Single Pass	12 x 12	5 (127)	18 (457)	18 (457)
IGP-02-__1212	Double Pass	12 x 12	5 (127)	18 (457)	18 (457)

Model Coding



A

Options

- A – Appliance regulator (factory matched to heaters)
- B – Service regulator (low pressure, 250 psig - 11" w.c.)
- B1 – Service regulator (low pressure, 250 psig - 4" w.c.)
- C – Service regulator (high pressure, 6000 psig - 50 psi)
- M – Wall mount bracket (not applicable to HEA)
- M1 – Pipe mount bracket (2" pipe size, U-Bolt mount)
- T – Thermostat [regular, 32°F - 104°F, factory matched to heater(s)]
- T1 – Thermostat
- T2 – Thermostat (high temperature, 60°F - 250°F)
- V – Relief valve (Fisher 289U 5"-25" w.c.)
- V1 – Relief valve (Fisher H120, 120 psi)

Enclosure Request for Quote Form

Enclosure Type

- | | |
|------------------------------------------|-----------------------------------------------------|
| <input type="checkbox"/> Regulator | <input type="checkbox"/> Super conductor |
| <input type="checkbox"/> Pipe preheater | <input type="checkbox"/> Instrument gas preheater |
| <input type="checkbox"/> Rotary meter | <input type="checkbox"/> Other (description): _____ |
| <input type="checkbox"/> Motor valve | _____ |
| <input type="checkbox"/> Orifice fitting | _____ |

Device to be Enclosed

Type or manufacturer, size, model: _____

Temperature

Gas inlet before device: _____ °F / °C
 Temp. limit of enclosed device: _____ °F / °C
 Gas outlet after device: _____ °F / °C

Piping

Diameter: Inlet _____ in. Outlet _____ in
 Design temperature: _____ °F / °C
 Design pressure: _____ psig

Pressure

Gas inlet before regulator or enclosure: _____ psig
 Gas outlet after regulator of enclosure: _____ psig

Gas Flow

Maximum: _____ SCFM Minimum: _____ SCFM

Type of Gas Being Heated

- Natural Gas LPG
 Other: _____

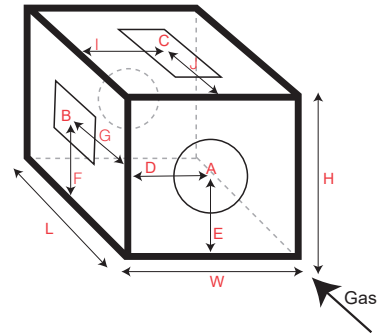
Electrical/Controls

Supply Power: _____ V

Hazardous Physical Dimensions Restrictions

	Maximum	Minimum
L		
W		
H		

Dimension Size:



- A: _____ F: _____
 B: _____ G: _____
 C: _____ H: _____
 D: _____ I: _____
 E: _____ J: _____

Other Field Restrictions (please specify): _____

Available Drawings/Sketches: Yes (please attach) / No

Available Photos: Yes (please attach) / No

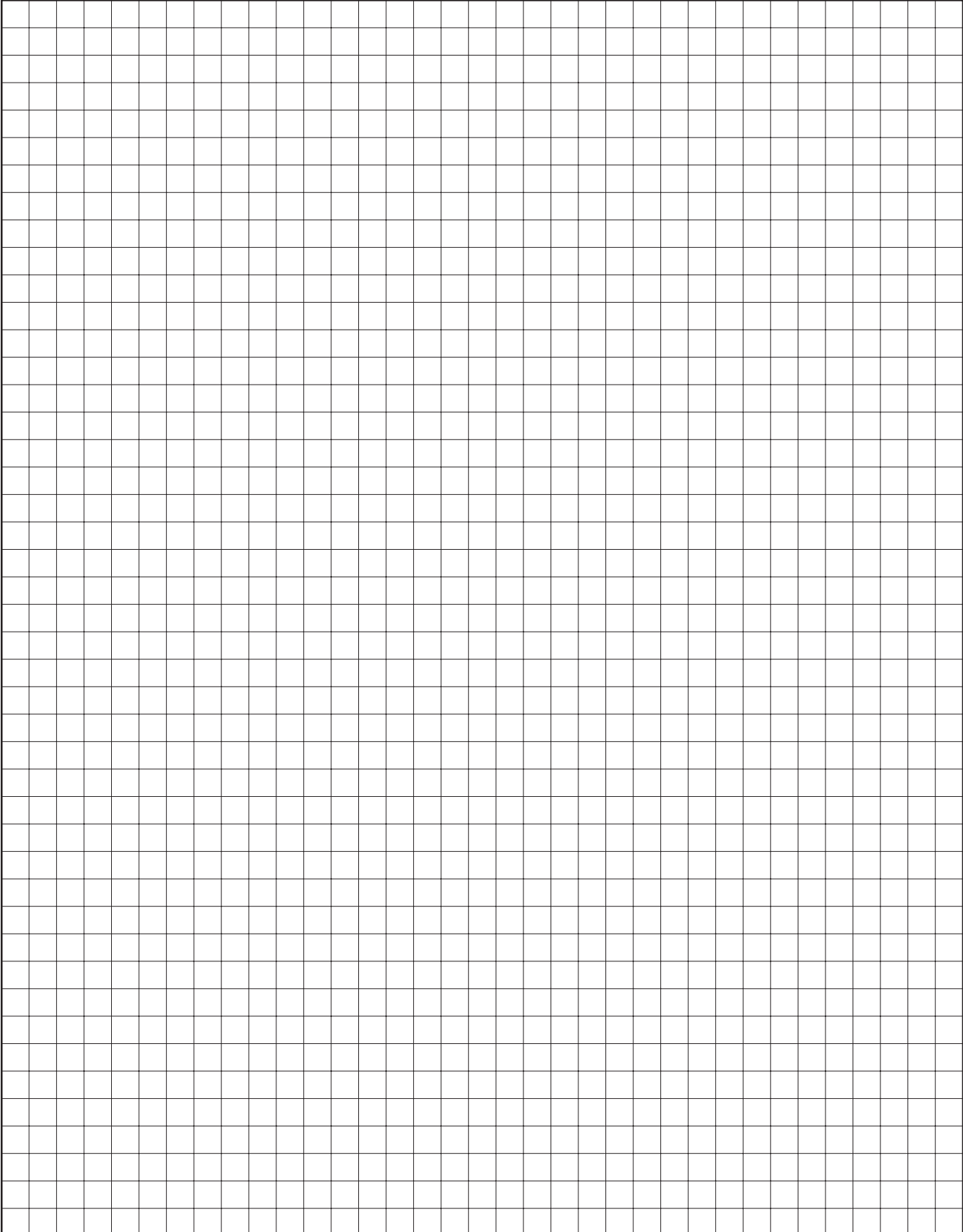
Options

- Manual shut-off ball valve
 Filter: H₂S / Water / Oil / Particles
 Filter Bypass Line

Thermostat Control

- High temperature controller: 60°F to 250°F (15°C to 121°C)
 Temperature controller: 32°F to 110°F (0°C to 43°C)

NOTES





As a leader in advanced heating and filtration solutions with facilities across North America, CCI Thermal Technologies Inc. manufactures six of the top brands in industrial heating in addition to a comprehensive line of engineered industrial filtration products including:



Cata-Dyne™ is the industry standard in infrared gas catalytic heaters, enclosures, pipeline systems and accessories. Customers across a wide range of industries rely on Cata-Dyne™ to supply them with safe, reliable, efficient and versatile infrared catalytic heating equipment for a variety of applications in both hazardous and non-hazardous environments.

Ruffneck™ is renowned for its rugged, reliable and versatile heavy-duty explosion-proof heaters, heating systems and heating accessories. Ruffneck™ has a long and proud history of supplying quality heating products for the harshest industrial environments to a worldwide customer base for over 30 years. Ruffneck™ is well-known in the industry for its "ship the heat in a week" policy, where 95% of all standard orders are shipped within one week of order placement.



Caloritech™ electric heaters, heating elements and heating accessories are well-known in the industry for their quality, reliability, performance and versatility. In addition to standard "off the shelf" industrial heaters and heating systems components, Caloritech™ also offers engineered heating solutions custom designed, manufactured and tested to satisfy customer specifications. No matter what your application or environment, Caloritech™ has a solution to fit your heating needs.

3L Filters™ has satisfied the most demanding industrial filtration requirements for over 40 years. A broad range of standard and custom products includes liquid filters, strainers, separators, pressure vessels, and engineered products and systems. 3L Filters™ has special expertise for nuclear, petrochemical, water treatment and environmental applications.



Norseman™ is the most technologically advanced line of explosion-proof electric air heaters and heating accessories, including both forced air heaters and natural convection heaters, as well as unit heaters, panel heaters and thermostats. Norseman™ offers innovative, low maintenance solutions for a wide range of applications in a variety of industrial and commercial environments. Custom engineered heaters or heating systems are available for specialized applications.

Fastrax® has manufactured railroad track and switch heating since 1995. Fastrax® engineers complete heating packages for the rail industry. Fastrax® track and switch heaters are designed to provide the most efficient heat transfer on rail equipment and components for the coldest environments. In addition to heaters, Fastrax® manufactures fully automatic energy saving controls to complete the rail heating system.



DriQuik™ provides components for infrared drying ovens. DriQuik™ utilizes a pioneered radiant oven technology established in the 1930s providing the industry standard in infrared radiant heating components.

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