



TWIN-PAK

Clamp On, Direct Heating
Pipeline Heaters

 **BRUEST**
CATALYTIC HEATERS

www.bruestcatalyticheaters.com



■ TECHNOLOGY OVERVIEW

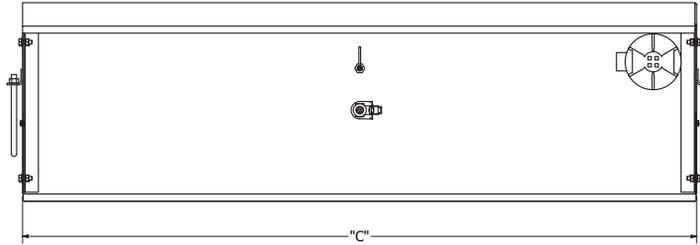
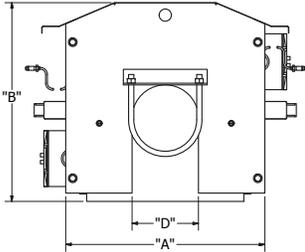
Bruest's Twin-Pak pipeline heaters are designed for quick and easy installation with a wide range of BTU inputs in different sizes to accommodate various pipeline sizes and heating requirements. Twin-Paks can be used at gate stations, gas filtration plants, and other locations where heat is required directly on the pipe or vessel. The compact design of the Twin-Paks allows for heating where space is limited without reconfiguring existing pipes.

The Twin-Paks include one or two Bruest catalytic heaters. The Bruest catalytic heaters are designed for use in general wiring, Class 1 Division 2 Group D, or Class 1 Division 1 Group D locations. As with all Bruest catalytic heaters, the heaters are started with electric power. The input power can be 12VDC, 120VAC, or 240VAC. Fuel gas supply can be either Natural Gas or LP gas for additional flexibility.

■ SPECIFICATIONS

The Twin-Paks can be used to heat the gas upstream of pressure regulators and measurement facilities prior to a pressure cut. The dual heater Twin-Pak is equipped with fuel gas manifold with pressure regulators and dual temperature controllers. Each heater can be operated independently of the other, allowing the Twin-Pak to have a 4:1 turndown ratio. They are designed primarily for outdoor use and can be placed in isolated, unmanned areas with minimal user maintenance required. Twin-Paks are economical alternative solutions that can be quickly implemented.

FEATURES	BENEFITS
Compact, portable design	Easily relocated to where heat is required
Multiple BTU rating and starting voltages	Sized to meet application demand, pipe size, and power availability
Stainless Steel construction	Can be installed outdoors without affecting performance
Mounted directly on pipe	Quick and easy installation Operation ready in as little as 3 hours
Hazardous location rated	Minimal installation space
Mechanically operated	Electricity required only during startup Minimal maintenance
Short lead time	Available in as little as two weeks



Model Number	A		B		C		D		Heat Value	Est. Weight
	IN	MM	IN	MM	IN	MM	IN	MM	BTU	Lbs
SP02	12.375	314.3	8.25	209.6	24	609.6	2.5	63.5	6,000	25
TP02	12.375	314.3	8.25	209.6	24	609.6	2.5	63.5	12,000	35
TP12	12.375	314.3	14.25	362	24	609.6	2.5	63.5	24,000	50
TP13	12.375	314.3	14.25	362	36	914.4	2.5	63.5	36,000	62
TP14	12.375	314.3	14.25	362	48	1219.2	2.5	63.5	48,000	95
TP15	12.375	314.3	14.25	362	60	1524	2.5	63.5	60,000	110
TP16	12.375	314.3	14.25	362	72	1828.8	2.5	63.5	72,000	120
TP33	14	355.6	20.25	514.4	36	914.4	2.5	63.5	56,000	115
TP34	14	355.6	20.25	514.4	48	1219.2	2.5	63.5	74,000	130
TP35	14	355.6	20.25	514.4	60	1524	2.5	63.5	90,000	145
TP24	14	355.6	26.25	666.8	48	1219.2	2.5	63.5	100,000	158
TP25	14	355.6	26.25	666.8	60	1524	2.5	63.5	120,000	180
TP26	14	355.6	26.25	666.8	72	1828.8	2.5	63.5	144,000	220

Twin-Pak dimensions for 2" pipes. Contact Factory for additional pipe sizes

The Twin-Paks are designed to accommodate pipes up to 10" in diameter. The width of the Twin-Pak will be adjusted for the larger pipe diameters. Contact factory or visit www.bruestcatalyticheaters.com for additional pipe diameters.

APPLICATION CONSIDERATIONS

Bruest Twin-Pak pipeline heaters are simple to install with virtually zero modification required to existing pipes. Guidelines include:

- **Length of unobstructed pipe:** need sufficient length for Twin-Pak
- **Diameter of pipe relative to Twin-Pak height:** Height of Twin-Pak should be 4X pipe diameter or less
- **Gas flow dynamic:** Speed and turbulent flow can help heat transfer
- **Color of pipe:** Darker color are better suited
- **Distance of pipe to ground:** Twin-Paks should be mounted off the ground to avoid contamination by water or other debris

■ HOW TO BUILD A SYSTEM

Use this chart to identify the capacity and features required for your application. For assistance, please call the Bruest Engineering Team at 800-835-0557.

TP	16	V	C	-	P	G	R	T	H	X
Location	Designation / Options									
TP	Twin-Pak Family				P	Pipe Diameter (continued)				
	TP	Dual Heaters				4	4"			
	SP	Single				5	5"			
16	Heater Selection					6	6"			
	Code	Heater	Code	Heater	G	Gas Train	Standard with Fisher 912 and Maxitrol Appliance Regulator			
	02	S0624	33	S1836		0	No Thermostatic Control			
	12	S1224	34	S1848		1	Invensys Controller			
	13	S1236	35	S1860		2	Mertik Controller			
	14	S1248	24	S2448	R	Regulator				
	15	S1260	25	S2460		0	No High Pressure Regulator			
	16	S1272	26	S2472		1	Fisher 1301 Regulator			
V	Starting Voltage					2	Fisher 67FR Regulator			
	1	12VDC (TP02 - TP13 only)			T	Power Cable				
	2	120VAC				0	No Cable			
	3	240VAC				1	16ft XP Pigtail #12/3			
C	Certification					2	20ft XP Pigtail #10/3			
	3	Heater Panels - Class 1 Division 1 Group D rated				3	25ft XP Pigtail #8/3			
P	Pipe Diameter					4	50ft XP Pigtail			
	1	1"			H	Orientation				
	2	2"				H	Horizontal			
	3	3"				V	Vertical			
					X	Custom	To Be Specified			

■ Example Models

TP3523-2212HX	TP1213-2201VX
Twin-Pak Dual S1860 Heater	Twin-Pak Dual S1224 Heater
120VAC, Heater Panels	12VDC (TP02 - TP13 only) Heater Panels
Class 1 Division 1 Group D rated	Class 1 Division 1 Group D rated
2" Pipe	2" Pipe
Dual Mertik	Dual Mertik
Fisher 1301	No Fisher 1301
20ft XP Pigtail #10/3 Horizontal Mount	16ft XP Pigtail #12/3 Vertical Mount



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