



FREEZ-FITER

Compact Portable
Pilot and Fuel Gas Heaters

 **BRUEST**
CATALYTIC HEATERS

www.bruestcatalyticheaters.com



TECHNOLOGY OVERVIEW

Bruest Catalytic Freez-Fiter Fuel Gas Heaters were designed to heat low to medium volume of gas with either one or two catalytic heaters to heat a serpentine process gas coil. The Freez-Fiter family of heaters is offered with high pressure regulators to reduce the inlet gas pressure to the fuel gas train, an integral filter to remove contaminants, and temperature controllers to adjust the temperature of the process gas. Bruest's Freez-Fiter family of fuel gas heaters are great alternatives to larger fuel gas systems.

SPECIFICATIONS

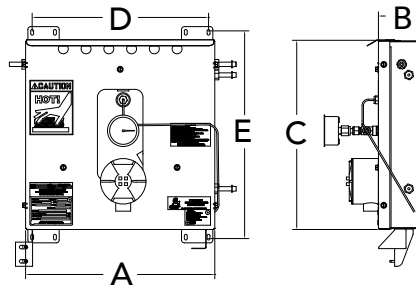
The Freez-Fiter family of heaters operates on the same principle as all of Bruest's Catalytic Heaters. An electric source is required to warm up the catalytic pad. Once the pads are warmed up, which should take between 15 to 20 minutes, the electric supply can be removed and the gas supply takes over. After the gas is introduced, the catalytic reaction will supply the necessary heat to continue the process.

Model	S1800	S4000	S6000	S8000	S12000	S16000
BTUH	2,500	5,000	12,000	24,000	36,000	48,000
Heater Size	R8	R12	6X24	12X24	12X36	12X48
Qty of Heater	1	1	2	2	2	2
Coil Size	3/8" Tubing	3/8" Tubing	1/2" Tubing	1/2" Tubing	3/4" Tubing	3/4" Tubing
# of Coils	1 or 2	1 or 2	1	1	1	1
MAOP (PSIG)	3000	3000	3000, 4300, 5200	3000, 4300, 5200	3000, 4300, 5200	3000, 4300, 5200
Starting Voltage	12DC/120AC	12DC/120AC	12DC, 120, 240AC	12DC, 120, 240AC	12DC, 120, 240AC	AC Only, 120, 240
Low Pressure Regulator (up to 50 PSIG Inlet)	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
Filter	STANDARD Inline	STANDARD Inline	STANDARD	STANDARD	STANDARD	STANDARD
Fuel Input Gauge	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
Temperature Controller	OPTIONAL	OPTIONAL	STANDARD	STANDARD	STANDARD	STANDARD
High Pressure Regulator	OPTIONAL	OPTIONAL	STANDARD	STANDARD	STANDARD	STANDARD
Power Cable Options (Feet)	16, 20, 25	16, 20, 25	16, 20, 25	16, 20, 25	16, 20, 25	16, 20, 25
Heater Panel Classification Available	General, Class 1, Div 1 or Div 2, Gr. D	General, Class 1, Div 1 or Div 2, Gr. D	Class I, Div 1, Gr. D	Class I, Div 1, Gr. D	Class I, Div 1, Gr. D	Class I, Div 1, Gr. D

Models S1800 and S4000

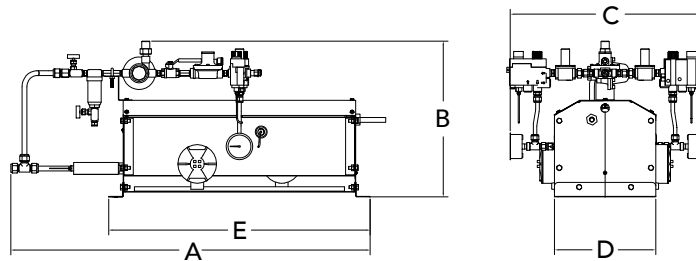


S1800 Shown on Stand



Model Number	A		B		C		D		E		Heat Value BTU	Est. Weight Lbs
	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM		
S1800	12.8	323.9	4.9	125.5	12.8	323.9	11.7	296.4	14.0	355.6	2500	22
S4000	16.6	421.6	4.1	104.1	16.6	421.6	15.5	393.7	18.2	462.3	5000	35

Models S6000, S8000, S12000, and S16000



Model Number	A		B		C		D		E		Heat Value BTU	Est. Weight Lbs
	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM		
S6000	38.1	972.0	16.1	410.0	19.7	500.0	10.5	268.0	27.1	689	12000	50
S8000	38.1	972.0	20.8	527.0	20.4	519.0	11.3	286.0	27.1	689	24000	60
S12000	49.1	1247.0	21.6	548.0	23.8	604.0	13.0	330.0	39.1	994	36000	75
S16000	61.3	1557.0	21.6	548.0	23.8	604.0	13.0	330.0	51.1	1299	48000	110

FEATURES

BENEFITS

Stainless steel construction	Suitable for outdoor installation with little to zero maintenance required
DC startup power option	Allows heaters to be started without costly AC power installation, can be run off car batteries
Light weight, compact design	Portable and easy to install. Can be relocated where heat is required with minimal tools
Direct heating of process coil	No costly heat exchange medium to fill, no risk of spills
Temperature control based on gas temperature	Accurate temperature control ensuring consistent gas heating
Larger (S6000 and higher) models with dual temperature controllers	Increased turn down ratio to cover wide spectrum of flow rate ranges

APPLICATIONS

- Fuel Gas Heating
- Pilot Gas Heating
- CNG Decompression System (see Bruest LD Series Let Down Stations for more information)
- LPG Vaporization
- Glycol Heating

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**.

FF	12	0	0	-	A	B	C	D	E	F	
Location	Designation / Options										
FF	Freez-Fiter Family				A	Pressure Rating Continued	3/4" Tubing				
12	Freez-Fiter Size		BTU Rating			4	2750PSIG (12000/16000)				
	06	S6000	12,000			5	4000PSIG (12000/16000)				
	08	S8000	24,000			6	4900PSIG (12000/16000)				
	12	S12000	36,000								
	16	S16000	48,000		B	Gas Train					
						0	Dual Mertik with Fisher 1301, Belgas P912 High/Low pressure regulators				
0	Starting Voltage *					1	Dual Mertik with Fisher 1301, Fisher 912 High/Low pressure regulators				
	1	12VDC (N/A on S16000)				2	Dual Mertik with Belgas P39, Belgas P912 High/Low pressure regulators				
	2	120VAC									
	3	240VAC			C	Pigtail - Power Cable *					
						0	None				
3	Certification					1	16ft XP Pigtail				
	3	Heater Panels - Class 1 Division 1 Group D rated				2	20ft XP Pigtail				
						3	25ft XP Pigtail				
A	Pressure Rating - 1/2" Tubing				D	Fuel Gas Type	0	Natural Gas			
	1	3000PSIG (6000/8000)					1	LPG - Specify Propane or LPG Mix			
	2	4300PSIG (6000/8000)			E	Reserved	0				
	3	5200PSIG (6000/8000)			F	Reserved	0				

* S16000 cannot have a starting voltage of 12VDC or a pigtail option. Please contact factory for assistance on configuring a S1800 or S4000

Example Models

FF0613-101000	FF1633-410000
Freez-Fiter S6000 rated at 24,000 BTU with 12VDC startup voltage	Freez-Fiter S16000 rated at 48,000 BTU, 240VAC startup voltage
Class I Division 1 Group D heater panels	Class I Division 1 Group D heater panels
3000 PSIG operating pressure, 1/2" process gas tubing	2750 PSIG operating pressure, 3/4" process gas tubing
Dual Mertik temperature controller	Dual Mertik temperature controller
Fisher 1301 high pressure regulator	Fisher 1301 and 912 regulators
Belgas low pressure regulators	No power cable
16 foot explosion proof pigtail power cable	Natural gas fuel supply



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