

MKII Series Explosion-Proof Catalytic Heater

Our Cata-Dyne™ MKII Series explosion-proof catalytic heater has sleek side mount controls ideal for customers seeking to reduce costs with easier and quicker heater installation.

Applications

The Cata-Dyne™ MKII Series heaters are used in many different applications that involve spot or space heating where hazardous materials may be present.

These include:

- comfort heating for industrial buildings and installations
- freeze protection for equipment or components
- drying or curing processes

Features

- heater box constructed of 300 series stainless steel for corrosion protection
- Cata-Dyne™ proprietary explosion-proof catalyst pad.
- standard 3/8" NPT gas connections
- Cata-Dyne™ heaters are designed to operate on either natural gas or propane
- Cata-Dyne™ heaters do not require electrical power to operate once they have been started
- our QuikSTART heater technology reaches the catalytic threshold faster, bringing the heater to full operating temperature in half the time
- shorter thermocouple is nickel plated with an added polymer sleeve to enhance the corrosion protection for a stronger electromagnetic connection to the safety shut-off valve (SSOV)
- all gas control components as well as all electrical connections are side mounted for easy installation and access
- side mounted rating plate for easy visibility
- single start up element with the same power and wattage rating as used in the standard WX heaters dual elements
- heater contains no moving parts and is designed to operate indefinitely when supplied with air and clean fuel
- internal heater components such as our proprietary catalyst pad and preheat Caloritech™ tubular element are manufactured in-house



Certifications

The Cata-Dyne™ MKII Series explosion-proof catalytic heater is approved for the following:

- Canadian Standards Association (CSA) for use in Class I, Division 1 & 2, Group D hazardous locations
- Factory Mutual (FM) for use in Class I, Division 1, Group D hazardous locations. Temperature code T2C at an ambient temperature of 40°C (104°F)

See TABLE 2 on page 13 for fuel & electrical ratings

MKII

**TABLE 1 - Fuel and Electrical Rating Data
WX Series - CSA and FM**

Model No.	Maximum Gas Input		Minimum Gas Input				Maximum Gas Flow				Start-Up Amperage						
	Btu/hr (kW)		Btu/hr (kW)				CFH		m ³ /hr		12V	120V	208V	240V	380V	480V	600V
	Natural Gas & Propane		Natural Gas		Propane		Natural Gas	Propane	Natural Gas	Propane							
WX6x6	1,250	(0.366)	500	(0.147)	375	(0.110)	1.25	0.5	0.0354	0.0142	7.1	0.7	~	0.4	~	~	~
WX6x12	2,500	(0.733)	1,000	(0.293)	750	(0.220)	2.5	1.0	0.0708	0.0283	7.1	0.7	~	0.4	~	~	~
WX6x24	5,000	(1.465)	2,000	(0.586)	1,500	(0.440)	5.0	2.0	0.1416	0.0566	15.0	2.1	1.2	1.0	~	~	~
WX6x60	12,500	(3.663)	5,000	(1.465)	3,750	(1.099)	12.5	5.0	0.3540	0.1416	~	~	~	~	~	1.3	~
WX8x8	2,222	(0.651)	900	(0.264)	700	(0.205)	2.2	0.9	0.0629	0.0252	7.1	0.7	~	0.4	~	~	~
WX10x12	4,167	(1.221)	1,700	(0.498)	1,250	(0.366)	4.2	1.7	0.1180	0.0472	15.0	2.1	1.2	1.0	~	~	~
WX12x12	5,000	(1.465)	2,000	(0.586)	1,500	(0.440)	5.0	2.0	0.1416	0.0566	15.0	2.1	1.2	1.0	~	~	~
WX12x24	10,000	(2.931)	4,000	(1.172)	3,000	(0.879)	10.0	4.0	0.2832	0.1133	30.0	4.2	2.4	2.1	~	1.5	0.9
WX12x36	15,000	(4.396)	6,000	(1.758)	4,500	(1.319)	15.0	6.0	0.4248	0.1699	30.0	5.0	2.9	2.5	1.6	1.3	1.0
WX12x48	20,000	(5.861)	8,000	(2.345)	6,000	(1.758)	20.0	8.0	0.5663	0.2265	30.0	6.7	3.9	3.3	2.1	1.7	1.3
WX12x60	25,000	(7.327)	10,000	(2.931)	7,500	(2.198)	25.0	10.0	0.7079	0.2832	45.0	10.4	6.0	5.2	3.3	2.6	2.1
WX12x72	30,000	(8.792)	12,000	(3.517)	9,000	(2.638)	30.0	12.0	0.8495	0.3398	~	12.1	7.0	6.0	3.8	3.0	2.4
WX18x24	15,000	(4.396)	6,000	(1.758)	4,500	(1.319)	15.0	6.0	0.4248	0.1699	30.0	4.2	2.4	2.1	~	1.5	~
WX18x30	18,750	(5.495)	7,500	(2.198)	5,625	(1.649)	18.75	7.5	0.5309	0.2124	~	~	~	~	~	1.5	~
WX18x36	22,500	(6.594)	9,000	(2.638)	6,750	(1.978)	22.5	9.0	0.6371	0.2549	~	10.0	5.8	5.0	3.2	2.5	2.0
WX18x48	30,000	(8.792)	12,000	(3.517)	9,000	(2.638)	30.0	12.0	0.8495	0.3398	~	13.3	7.7	6.7	4.2	3.3	2.7
WX18x60	37,500	(10.990)	15,000	(4.396)	11,250	(3.297)	37.5	15.0	1.0619	0.4248	~	20.8	12.0	10.4	6.6	5.2	4.2
WX18x72	45,000	(13.188)	18,000	(5.275)	13,500	(3.956)	45.0	18.0	1.2743	0.5097	~	24.2	14.0	12.1	7.6	6.0	4.8
WX24x24	20,000	(5.861)	8,000	(2.345)	6,000	(1.758)	20.0	8.0	0.5663	0.2265	30.0	4.2	2.4	2.1	~	1.5	~
WX24x30	25,000	(7.327)	10,000	(2.931)	7,500	(2.198)	25.0	10.0	0.7079	0.2832	30.0	4.2	2.4	2.1	~	1.5	~
WX24x36	30,000	(8.792)	12,000	(3.517)	9,000	(2.638)	30.0	12.0	0.8495	0.3398	~	10.0	5.8	5.0	3.2	2.5	2.0
WX24x48	40,000	(11.723)	16,000	(4.689)	12,000	(3.517)	40.0	16.0	1.1327	0.4531	~	13.3	7.7	6.7	4.2	3.3	2.7
WX24x60	50,000	(14.654)	20,000	(5.861)	15,000	(4.396)	50.0	20.0	1.4159	0.5663	~	20.8	12.0	10.4	6.6	5.2	4.2
WX24x72	60,000	(17.584)	24,000	(7.034)	18,000	(5.275)	60.0	24.0	1.6990	0.6796	~	24.2	14.0	12.1	7.6	6.0	4.8

TABLE 2 - MKII Series - CSA and FM

Model No.	Maximum Gas Input		Minimum Gas Input				Maximum Gas Flow				Start-Up Amperage	
	Btu/hr (kW)		Btu/hr (kW)				CFH		m ³ /hr		12V	120V
	Natural Gas & Propane		Natural Gas		Propane		Natural Gas	Propane	Natural Gas	Propane		
MKII12x12	5,000	(1.464)	2,000	(0.586)	1,500	(0.440)	5.0	2.0	0.1416	0.0566	15.0	2.1
MKII12x24	10,000	(2.929)	4,000	(1.172)	3,000	(0.879)	10.0	4.0	0.2832	0.1133	30.0	4.2
MKII18x24	15,000	(4.393)	6,000	(1.758)	4,500	(1.319)	15.0	6.0	0.4248	0.1699	30.0	4.2
MKII18x48	30,000	(8.787)	12,000	(3.517)	9,000	(2.638)	30.0	12.0	0.8495	0.3398	~	13.3
MKII24x24	20,000	(5.858)	8,000	(2.345)	6,000	(1.758)	20.0	8.0	0.5663	0.2265	30.0	4.2
MKII24x48	40,000	(11.716)	16,000	(4.689)	12,000	(3.517)	40.0	16.0	1.1327	0.4531	~	13.3