

MKII Series Explosion-Proof Gas Catalytic Heaters

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

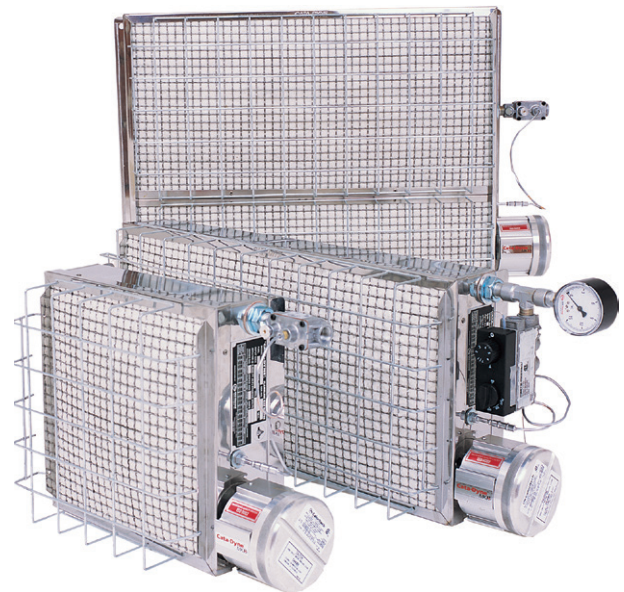
- Heater box constructed of 300 series stainless steel for corrosion protection
- Cata-Dyne™ proprietary explosion-proof catalyst pad.
- Standard 3/8" NPT gas connections
- Cata-Dyne™ heaters are designed to operate on either natural gas or propane
- Cata-Dyne™ heaters do not require electrical power 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 3, page 11 for fuel & electrical ratings



Model No.	Max. Gas Input		Min. Gas Input				Max. Gas Flow				Start-Up Amperage	
	Natural Gas / Propane		Natural Gas		Propane		CFH		m³/hr		12V	120V
	Btu/hr	kW	Btu/hr	kW	Btu/hr	kW	Natural Gas	Propane	Natural Gas	Propane		
MK12x12	5,000	1.464	2,000	0.586	1,500	0.440	5.0	2.0	0.1416	0.0566	15.0	2.1
MK12x24	10,000	2.929	4,000	1.172	3,000	0.879	10.0	4.0	0.2832	0.1133	30.0	4.2
MK18x24	15,000	4.393	6,000	1.758	4,500	1.319	15.0	6.0	0.4248	0.1699	30.0	4.2
MK18x48	30,000	8.787	12,000	3.517	9,000	2.638	30.0	12.0	0.8495	0.3398	–	13.3
MK24x24	20,000	5.858	8,000	2.345	6,000	1.758	20.0	8.0	0.5663	0.2265	30.0	4.2
MK24x48	40,000	11.716	16,000	4.689	12,000	3.517	40.0	16.0	1.1327	0.4531	–	13.3

Table 4 – G Series Fuel and Electrical Rating Data (CSA and FM - Non-Hazardous)

Model No.	Max. Gas Input		Min. Gas Input				Max. Gas Flow				Start-Up Amperage						
	Natural Gas / Propane		Natural Gas		Propane		CFH		m³/hr		12V	120V	208V	240V	380V	480V	600V
	Btu/hr	kW	Btu/hr	kW	Btu/hr	kW	Natural Gas	Propane	Natural Gas	Propane							
H6x6	1,500	0.440	500	0.147	375	0.110	1.5	0.6	0.0425	0.0170	7.1	0.7	–	0.4	–	–	–
H6x12	3,000	0.879	1,000	0.293	750	0.220	3.0	1.2	0.0850	0.0340	7.1	0.7	–	0.4	–	–	–
H6x24	6,000	1.758	2,000	0.586	1,500	0.440	6.0	2.4	0.1699	0.0680	15.0	2.1	1.2	1.0	–	–	–
H8x8	2,667	0.782	900	0.264	700	0.205	2.7	1.1	0.0755	0.0302	7.1	0.7	–	0.4	–	–	–
H10x12	5,000	1.465	1,700	0.498	1,250	0.366	5.0	2.0	0.1416	0.0566	15.0	2.1	1.2	1.0	–	–	–
H12x12	6,000	1.758	2,000	0.586	1,500	0.440	6.0	2.4	0.1699	0.0680	15.0	2.1	1.2	1.0	–	–	–
H12X24	12,000	3.517	4,000	1.172	3,000	0.879	12.0	4.8	0.3398	0.1359	30.0	4.2	2.4	2.1	–	1.5	0.9
H12x36	18,000	5.275	6,000	1.758	4,500	1.319	18.0	7.2	0.5097	0.2039	–	5.0	2.9	2.5	1.6	1.3	1.0
H12x48	24,000	7.034	8,000	2.345	6,000	1.758	24.0	9.6	0.6796	0.2718	30.0	6.7	3.9	3.3	2.1	1.7	1.3
H12x60	30,000	8.792	10,000	2.931	7,500	2.198	30.0	12.0	0.8495	0.3398	45.0	10.4	6.0	5.2	3.3	2.6	2.1
H12x72	36,000	10.551	12,000	3.517	9,000	2.638	36.0	14.4	1.0194	0.4078	–	12.1	7.0	6.0	3.8	3.0	2.4
H18x24	18,000	5.275	6,000	1.758	4,500	1.319	18.0	7.2	0.5097	0.2039	30.0	4.2	2.4	2.1	–	1.5	–
H18x30	22,500	6.594	7,500	2.198	5,625	1.649	22.5	9.0	0.6371	0.2549	–	–	–	–	–	1.5	–
H18x36	27,000	7.913	9,000	2.638	6,750	1.978	27.0	10.8	0.7646	0.3058	–	10.0	5.8	5.0	3.2	2.5	2.0
H18x48	36,000	10.551	12,000	3.517	9,000	2.638	36.0	14.4	1.0194	0.4078	–	13.3	7.7	6.7	4.2	3.3	2.7
H18x60	45,000	13.188	15,000	4.396	11,250	3.297	45.0	18.0	1.2743	0.5097	–	20.8	12.0	10.4	6.6	5.2	4.2
H18x72	54,000	15.826	18,000	5.275	13,500	3.956	54.0	21.6	1.5291	0.6116	–	24.2	14.0	12.1	7.6	6.0	4.8
H24x24	24,000	7.034	8,000	2.345	6,000	1.758	24.0	9.6	0.6796	0.2718	30.0	4.2	2.4	2.1	–	1.5	–
H24x30	30,000	8.792	10,000	2.931	7,500	2.198	30.0	12.0	0.8495	0.3398	30.0	4.2	2.4	2.1	–	1.5	–
H24x36	36,000	10.551	12,000	3.517	9,000	2.638	36.0	14.4	1.0194	0.4078	–	10.0	5.8	5.0	3.2	2.5	2.0
H24x48	48,000	14.067	16,000	4.689	12,000	3.517	48.0	19.2	1.3592	0.5437	–	13.3	7.7	6.7	4.2	3.3	2.7
H24x60	60,000	17.584	20,000	5.861	15,000	4.396	60.0	24.0	1.6990	0.6796	–	20.8	12.0	10.4	6.6	5.2	4.2
H24x72	72,000	21.101	24,000	7.034	18,000	5.275	72.0	28.8	2.0388	0.8155	–	24.2	14.0	12.1	7.6	6.0	4.8

Table 5 – WXS Slim Line Series Fuel and Electrical Rating Data (FM Only)

Model No.	Max. Gas Input		Min. Gas Input				Max. Gas Flow				Start-Up Amperage			
	Natural Gas / Propane		Natural Gas		Propane		CFH		m³/hr		12V	120V	240V	
	Btu/hr	kW	Btu/hr	kW	Btu/hr	kW	Natural Gas	Propane	Natural Gas	Propane				
WXS6x6	1,750	0.513	583	0.171	438	0.128	1.8	0.7	0.0496	0.0198	7.1	0.7	0.4	
WXS6x12	3,500	1.025	1,167	0.342	875	0.256	3.5	1.4	0.0991	0.0396	7.1	0.7	0.4	
WXS6x24	7,000	2.050	2,333	0.684	1,750	0.513	7.0	2.8	0.1982	0.0793	15.0	2.1	1.0	
WXS8x8	3,111	0.911	1,037	0.304	778	0.228	3.1	1.2	0.0881	0.0352	7.1	0.7	0.4	
WXS10x12	5,833	1.709	1,944	0.570	1,458	0.427	5.8	2.3	0.1652	0.0661	15.0	2.1	1.0	
WXS12x12	7,000	2.050	2,333	0.684	1,750	0.513	7.0	2.8	0.1982	0.0793	15.0	2.1	1.0	
WXS12x24	14,000	4.101	4,667	1.368	3,500	1.026	14.0	5.6	0.3964	0.1586	30.0	4.2	2.0	
WXS12x36	21,000	6.151	7,000	2.051	5,250	1.539	21.0	8.4	0.5947	0.2379	30.0	5.0	2.5	
WXS12x48	28,000	8.201	9,333	2.735	7,000	2.051	28.0	11.2	0.7929	0.3172	30.0	6.7	3.3	
WXS24x24	28,000	8.201	9,333	2.735	7,000	2.051	28.0	11.2	0.7929	0.3172	30.0	4.2	2.0	
WXS24x36	42,000	12.302	14,000	4.103	10,500	3.077	42.0	16.8	1.1893	0.4757	–	10.0	5.0	
WXS24x48	56,000	16.402	18,667	5.471	14,000	4.103	56.0	22.4	1.5858	0.6343	–	13.3	6.7	
Round	8 in	2,500	0.732	825	0.242	625	0.183	2.5	1.0	0.0708	0.0283	7.1	0.7	–
	12 in	5,500	1.611	1,825	0.535	1,375	0.403	5.5	2.2	0.1557	0.0623	15.0	2.1	–