



Marc Climatic Controls, Inc.

EXPLOSION-PROOF

Fan-Forced Unit Heaters

Class I, Division 1, Groups C,D

Class II, Division 1, Groups F,G

OPERATING TEMPERATURE CODE

T3C - 320°F (160°C)

The 233 series heaters are certified by CSA International to U.S. and Canadian standards for use in hazardous (classified) locations. CSA International is accredited as a Nationally Recognized Testing Laboratory (NRTL) by the U.S. Occupational Safety and Health Administration (OSHA).

Typical areas of installation include refining, chemical, petrochemical, and offshore facilities, as well as other locations where ignitable concentrations of flammable gases or vapors may be present under normal operating conditions.

233 SERIES



Features:

- CSA certified assuring safety and performance.
- Spark-proof construction including aluminum fan blade and explosion-proof motor.
- Heater core is all welded steel construction with painted steel heaters and tubes for non-corrosive environments and with spiral wound aluminum fins.
- Non-toxic propylene glycol heat transfer fluid.
- Automatic and manual reset overtemperature thermal cutouts.
- 24 volt transformer and contactor.
- Heavy 14 gauge cabinet, powder coated.
- Adjustable air discharge louvers.
- Fan guard on air inlet.

Options:

- Phenolic coated heat exchanger, cabinet, and fan blade for corrosive chemical plant environments.
- 316 stainless steel heat exchanger, headers, tubes with aluminum fins, stainless steel cabinet, and corrosive-resistant hardware for waste water treatment plants.
- Heater mounting kits.
- Thermostat installed and wired to the heater or shipped loose.
- two-position fan selector switch (Auto - On).
- Disconnect switch.
- 50 HZ service.

FAN-FORCED UNIT HEATERS 233 SERIES

EXPLOSION-PROOF
CLASS I, DIVISION 1, GROUPS C,D
CLASS II, DIVISION 1, GROUPS F,G

- 60 HZ -

OPERATING TEMPERATURE CODE
T3C - 320°F (160°C)

Catalog Number	Kw	Volts	Phase	Total Amps (1)	Frame Size	Approximate Air Temperature Rise °F (°C)	Air Flow (CFM)	Net Weight (LBS)
233-FA-0036C	3	208	1	17	1	15 (8)	650	110
233-FA-0036J	3	240	1	15	1	15 (8)	650	110
233-FA-0036D	3	208	3	10	1	15 (8)	650	110
223-FA-0036K	3	240	3	9	1	15 (8)	650	110
233-FA-0036U	3	480	3	5	1	15 (8)	650	110
233-FA-0036Z	3	600	3	4	1	15 (8)	650	110
233-FA-0056C	5	208	1	26	1	25(13)	650	110
233-FA-0056J	5	240	1	23	1	25(13)	650	110
233-FA-0056D	5	208	3	16	1	25(13)	650	110
223-FA-0056K	5	240	3	14	1	25(13)	650	110
233-FA-0056U	5	480	3	7	1	25(13)	650	110
233-FA-0056Z	5	600	3	6	1	25(13)	650	110
233-FA-0086C	7.5	208	1	38	1	28(16)	850	110
233-FA-0086J	7.5	240	1	34	1	28(16)	850	110
233-FA-0086D	7.5	208	3	23	1	28(16)	850	110
223-FA-0086K	7.5	240	3	20	1	28(16)	850	110
233-FA-0086U	7.5	480	3	10	1	28(16)	850	110
233-FA-0086Z	7.5	600	3	9	1	28(16)	850	110
233-FA-0106J	10	240	1	44	1	38(21)	850	110
233-FA-0106D	10	208	3	30	1	38(21)	850	110
223-FA-0106K	10	240	3	26	1	38(21)	850	110
233-FA-0106U	10	480	3	13	1	38(21)	850	110
233-FA-0106Z	10	600	3	11	1	38(21)	850	110
233-FB-0156D	15	208	3	44	2	27(15)	1800	150
223-FB-0156K	15	240	3	38	2	27(15)	1800	150
233-FB-0156U	15	480	3	19	2	27(15)	1800	150
233-FB-0156Z	15	600	3	16	2	27(15)	1800	150
233-FB-0206U	20	480	3	25	2	35(19)	1800	150
233-FB-0206Z	20	600	3	21	2	35(19)	1800	150
233-FC-0256U	25	480	3	31	3	26(14)	3110	190
233-FC-0256Z	25	600	3	25	3	26(14)	3110	190
233-FC-0306U	30	480	3	37	3	25(13)	3850	190
233-FC-0306Z	30	600	3	30	3	25(13)	3850	190

(1) Total amps = Heating Element Amps and Motor Amps

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE 10-12-06



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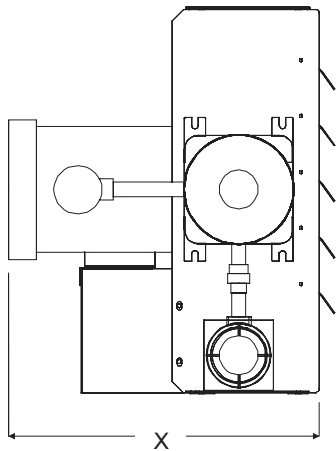


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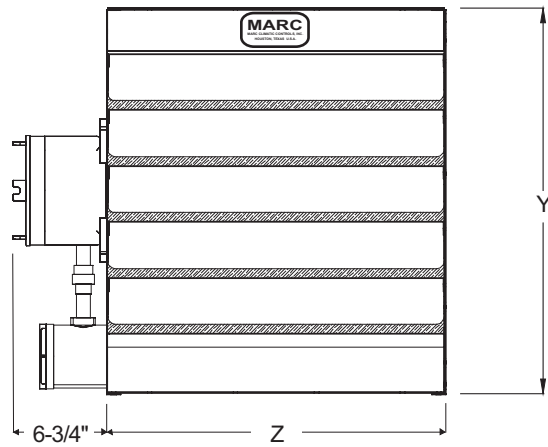
233 Series Fan-Forced Heater Dimensions

Marc Climatic Controls, Inc.

10-12-06

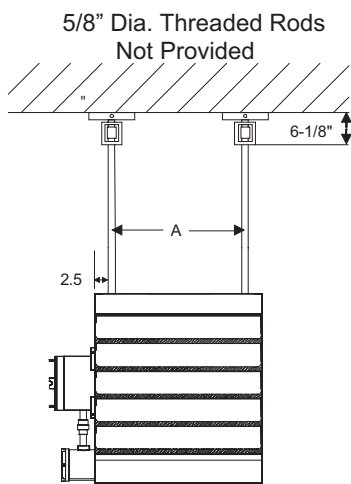


Side View

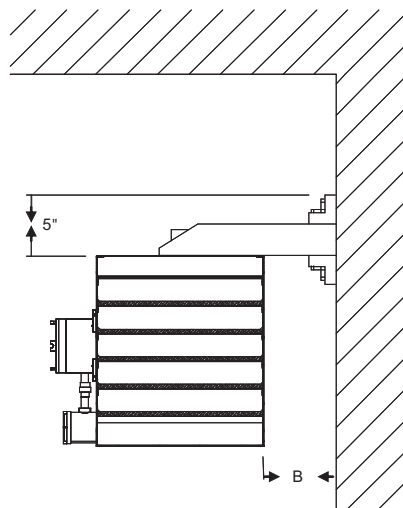


Front View

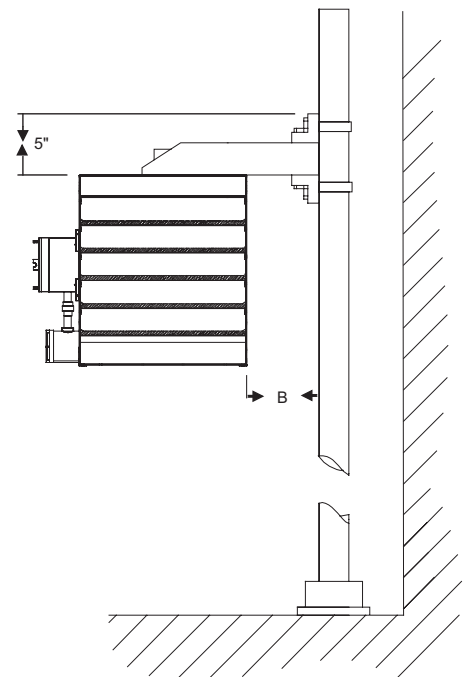
Accessory Mounting Kits (Optional)



Ceiling Mounting Kit



Wall Mounting Kit



Pole Mounting Kit

Size	A	B	X	Y	Z
1	11-1/16"	9"	18-1/4"	19-3/8"	16-1/16"
2	15-1/16"	7"	18-1/4"	23-3/8"	20-3/16"
3	19-1/16"	5"	20"	27-3/8"	24-3/16"