

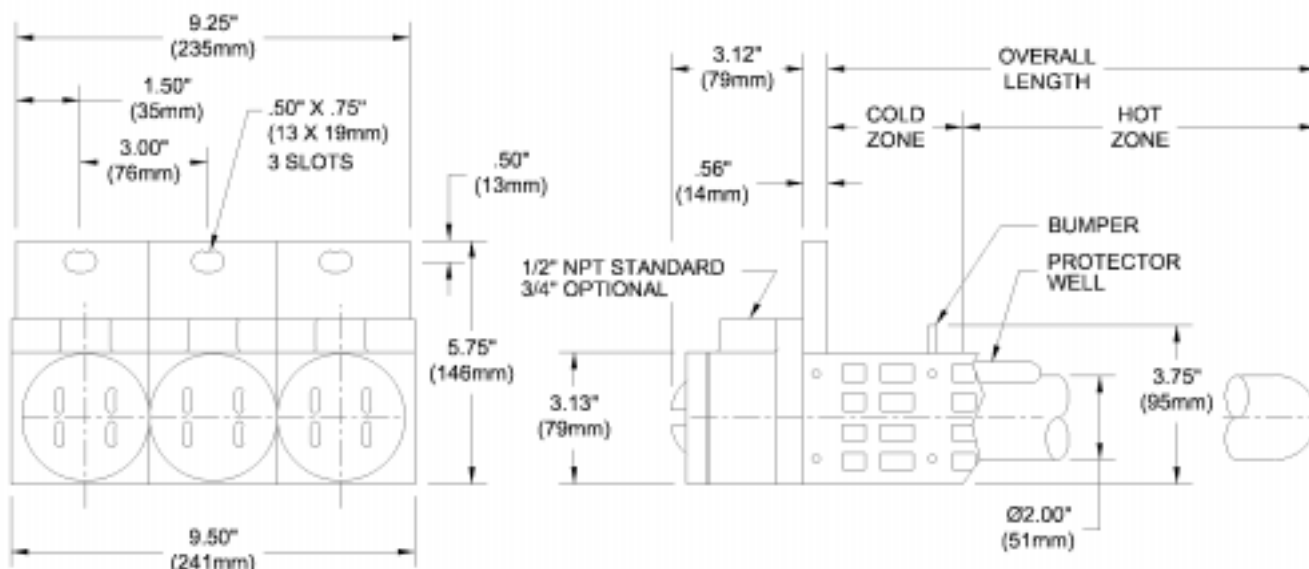
Standard guard is polypropylene. Fluoropolymer (PTFE) guards available for chromic acid and high temperature applications (180°F and higher).

3QM SERIES, QUARTZ HEATERS WITH METAL ELEMENTS					
WATTS	VOLTS	HOT ZONE	OVERALL LENGTH	MODEL NUMBER	SHIP WGT. Lbs./kg
		In./mm	In./mm		
1500	120	6	10	3QM1.5110C-**	21
	240	(155)	(255)	3QM1.5210C-**	(10)
3000	120	7	11	3QM3111C-**	22
	240	(180)	(280)	3QM3211C-**	(10)
3000	120	7	17	3QM3117C-**	26
	240	(180)	(430)	3QM3217C-**	(12)
6000	240	12	17	3QM6217C-**	26
	480	(305)	(430)	3QM6417C-**	(12)
6000	240	12	23	3QM6223C-**	30
	480	(305)	(585)	3QM6423C-**	(14)
9000	240	18	23	3QM9223C-**	30
	480	(460)	(585)	3QM9423C-**	(14)
9000	240	18	29	3QM9229C-**	34
	480	(460)	(735)	3QM9429C-**	(15.5)
10500	240	21	29	3QM10.5229C-**	34
	480	(535)	(735)	3QM10.5429C-**	(15.5)
12000	240	28	35	3QM12235C-**	38
	480	(710)	(890)	3QM12435C-**	(17)
12000	240	28	41	3QM12241C-**	44
	480	(710)	(1040)	3QM12441C-**	(20)
15000	240	33	41	3QM15241C-**	44
	480	(840)	(1040)	3QM15441C-**	(20)
15000	240	33	47	3QM15247C-**	48
	480	(840)	(1195)	3QM15447C-**	(22)
18000	240	39	47	3QM18247C-**	48
	480	(990)	(1195)	3QM18447C-**	(22)
18000	240	39	52	3QM18252C-**	52
	480	(990)	(1320)	3QM18452C-**	(24)
24000	240	49	59	3QM24259C-**	55
	480	(1245)	(1500)	3QM24459C-**	(25)
30000	240	62	71	3QM30271C-**	65
	480	(1575)	(1805)	3QM30471C-**	(30)

Product Features and Benefits:

- ◆ **SUPERIOR CHEMICAL RESISTANCE:** For use in most aqueous acidic plating solutions and pickling tanks. Not for use in hydrofluoric acid or alkaline solutions. Check solution recommendation chart or with your chemical supplier for proper sheath material selection.
 - ◆ **MATERIALS OF CONSTRUCTION:** Heavy wall quartz sheath with replaceable metal elements and common polypropylene guard (complete assembly).
 - ◆ **OUTSTANDING PERFORMANCE:** Watt densities of 25 watts per square inch (4 w/cm²) ensure long service life.
 - ◆ **CORROSION RESISTANT HEAD:** Vapor tight, flame retardant polypropylene terminal enclosures with 3-foot (.9m) flexible PVC liquid tight conduits.
 - ◆ **SAFETY FEATURES:**
 - Grounded construction.
 - Thermal protector built in. Replaceable PQI fuse standard for solutions up to 180°F (82°C).
 - **CERTIFICATIONS:** UL, CSA, and CE.
 - ◆ **SIZES:** 1,500 watts to 30,000 watts.
 - ◆ **VOLTAGES:** 120, 240 or 480 volts. 208, 380, 415, 600 and other voltages available. Single phase standard, three phase available.
 - ◆ **OPTIONS AVAILABLE (consult factory):**
 - Replaceable thermal protectors:
 - PQIM: for solutions from 180°F (82°C) to 230°F (110°C).
 - Resettable thermal protectors:
 - PQII: for solutions up to 180°F (82°C).
 - PQIIM: for solutions from 180°F (82°C) to 230°F (110°C).
 - Special configurations and lengths.
 - Longer wire and conduit lengths.
 - Fluoropolymer (PTFE) guards for chromic acid or solutions over 180°F (82°C).
 - Lower watt densities for highly viscous solutions.
 - Temperature and level controls sized to match the heater.
- NOTE:** Not for use in hydrofluoric acid or alkaline solutions. Standard configuration is three individual single phase elements that can be wired together for three phase power.

DIMENSIONS



TRIPLE TUBE QUARTZ OVER THE SIDE HEATER

Series	Wattage	Voltage	Length	Options	Type of Fuse	Wire and Conduit Length															
	1.5 = 1500 3 = 3000 6 = 6000 9 = 9000 10.5 = 10500 12 = 12000 15 = 15000 18 = 18000 24 = 24000 30 = 30000	1 = 120 2 = 240 4 = 480 -208 = 208 -380 = 380 -415 = 415 -600 = 600	10 = 1.5kW 11 = 3kW 17 = 6kW 23 = 9kW 29 = 10.5kW 35 = 12kW 41 = 15kW 47 = 18kW 59 = 24kW 71 = 30kW specify custom lengths, not to exceed tank depth			36" length standard (no designator) specify variations from standard Ex: -X84 = 84"															
	3QM = Quartz																				
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						-C = complete heater with polypropylene guard -H = heater less guard (quartz sheath and element) -J = quartz tube only -E = element only -X = any special configuration not called out in the part number (specify in clear text)															

ORDERING EXAMPLE:

3QM9223C-PQI

Triple tube quartz, 9000 watts, 240 volts, 23" overall length, complete heater, PQI fuse.

**PROCESS
TECHNOLOGY**