

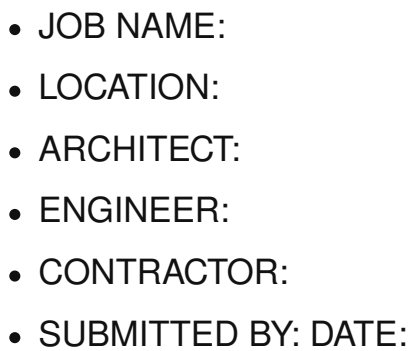


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# QMARK

## **QMARK QX Series Explosion Proof Convector**

[illegible]

|                          | TAG/ITEM | QTY | CATALOG NUMBER | DESCRIPTION |
|--------------------------|----------|-----|----------------|-------------|
| ACCESSORIES AND CONTROLS |          |     |                |             |
|                          |          |     |                |             |
|                          |          |     |                |             |
|                          |          |     |                |             |

|               |      |
|---------------|------|
| SUBMITTED BY: | DATE |
|               |      |
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|--------------|------|
| APPROVED BY: | DATE |
|              |      |
|              |      |
|              |      |
|              |      |

## ARCHITECT'S AND ENGINEER'S SPECIFICATIONS\*

Electric explosion proof convection heater(s)

shall be supplied by QMark®, a Marley Engineered Products® Brand, Bennettsville, SC, USA, and shall be of the KW rating, voltage and phase specified in the schedule. They shall be convection type heating units, certified to cCSAus and ABS, and approved for Class I, Divisions 1 and 2, Group B, C and D; Class II, Divisions 1 and 2, Groups E, F and G; Class I, Zones 1 and 2, Group IIB and H2. These convection heaters have been designed and manufactured to provide a rugged and corrosion resistant heat source for areas where volatile flammable liquids or gases and vapors are present.

## SAFETY

Convection heaters shall be outfitted a linear limit, automatic reset thermal cutout standard to every unit.

## HEAT EXCHANGER

Grade A Nickel-Chromium heating coils are insulated with ceramics and magnesium oxide from the copper heater tube and fitted with large aluminum fins locked in place for optimal heat transfer.

## **ENCLOSURE**

Heat exchanger and components to be enclosed in an industrial grade, corrosion-resistant all welded cabinet fabricated with polyester powder-coated, 14 gauge steel. The front cover shall be set at a 45° angle, discouraging the use of heater as a shelf or “step stool” and preventing objects from being set on top of the convector, which can restrict airflow and cause overheating. Inlet and discharge air louvers shall be stamped and integrated into the front cover for additional rigidity.

## **CONSTRUCTION OPTIONS**

Gas and Dust Atmospheres: Units are listed to cover the applications for both hazardous gases and vapors, as well as requirements for dust particles.

Wet Locations: All unit sizes available with iridite coated elements and powder-coated frames for NEMA 3 wet locations.

Stainless Steel cabinet construction

## **ELECTRICAL**

Units are available in a wide selection of wattages from 500w–9,500w, single and three phase, and from 120v–600v.

## **MOUNTING**

Cabinet should be mounted at least 6 inches (152 mm) above the floor. Factory-furnished wall brackets make installation easy.

## **OPTIONAL BUILT-IN CONTROLS**

The following factory installed packages and prewired control options are available: adjustable built-in thermostat, remote thermostat, and transformer and contactor bundles.

\* QMark reserves the right to change specifications without prior notice.

Class I, Divisions 1 & 2, Groups B, C & D | Class I, Zones 1 & 2 Groups IIB + H2 |  
 Ignition Temperature Code T2A, 536° F Models & Specifications:

| ITEM INFORMATION<br><br>CATALOG NO. | ELECTRICAL DATA  |       | OPTIONAL BUILT-ON<br>CONTROLS<br><br>THERMOSTAT ONLY* OR THERMOSTAT WITH CONTROLS | SHIP WEIGHT.** |
|-------------------------------------|------------------|-------|-----------------------------------------------------------------------------------|----------------|
|                                     | UNITVOLTS        | PHASE |                                                                                   |                |
|                                     | TOTAL            | KW    |                                                                                   |                |
|                                     | SIZE<br><br>AMPS |       |                                                                                   |                |

|                  |     |   |     |     |   |   |         |        |
|------------------|-----|---|-----|-----|---|---|---------|--------|
| QX-254-F0310052B | 120 | 1 | 4.2 | 0.5 | 1 | — | 1024754 | 13 lbs |
| QX-254-F0310052C | 208 | 1 | 2.4 |     |   | — | 1024754 | 13 lbs |
| QX-254-F0310052J | 240 | 1 | 2.1 |     |   | — | 1024754 | 13 lbs |
| QX-254-F0310052N | 277 | 1 | 1.8 |     |   | — | 1024754 | 13 lbs |
| QX-254-F0310102B | 120 | 1 | 8.3 | 1.0 | 1 | — | 1024754 | 13 lbs |
| QX-254-F0310102C | 208 | 1 | 4.8 |     |   | — | 1024754 | 13 lbs |
| QX-254-F0310102J | 240 | 1 | 4.2 |     |   | — | 1024754 | 13 lbs |
| QX-254-F0310102N | 277 | 1 | 3.6 |     |   | — | 1024754 | 13 lbs |

|                  |     |   |      |     |   |              |    |        |
|------------------|-----|---|------|-----|---|--------------|----|--------|
| QX-254-F0320182B | 120 | 1 | 15.0 | 1.8 | 2 | Not Required | S2 | 13 lbs |
| QX-254-F0320182C | 208 | 1 | 8.7  |     |   | Not Required | S2 | 27 lbs |
| QX-254-F0320182J | 240 | 1 | 7.5  |     |   | Not Required | S2 | 27 lbs |
| QX-254-F0320182N | 277 | 1 | 6.5  |     |   | Not Required | S2 | 27 lbs |
| QX-254-F0320182I | 347 | 1 | 5.2  |     |   | B2           | B3 | 27 lbs |
| QX-254-F0320182U | 480 | 3 | 2.2  |     |   | B2           | B3 | 27 lbs |
| QX-254-F0320182Z | 600 | 3 | 1.8  |     |   | B2           | B3 | 27 lbs |
| QX-254-F0320252C | 208 | 1 | 12.0 |     |   | Not Required | S2 | 27 lbs |
| QX-254-F0320252D | 208 | 3 | 6.9  |     |   | B2           | B3 | 27 lbs |
| QX-254-F0320252J | 240 | 1 | 10.4 |     |   | Not Required | S2 | 27 lbs |

|                  |     |   |      |     |   |              |    |        |
|------------------|-----|---|------|-----|---|--------------|----|--------|
| QX-254-F0320252N | 277 | 1 | 9.0  | 2.5 | 2 | Not Required | S2 | 27 lbs |
| QX-254-F0320252I | 347 | 1 | 7.2  |     |   | B2           | B3 | 27 lbs |
| QX-254-F0320252U | 480 | 3 | 3.0  |     |   | B2           | B3 | 27 lbs |
| QX-254-F0320252Z | 600 | 3 | 2.4  |     |   | B2           | B3 | 27 lbs |
| QX-254-F0330362C | 208 | 1 | 17.3 | 3.6 | 3 | Not Required | S2 | 36 lbs |
| QX-254-F0330362D | 208 | 3 | 10.0 |     |   | B2           | B3 | 36 lbs |
| QX-254-F0330362J | 240 | 1 | 15.0 |     |   | Not Required | S2 | 36 lbs |
| QX-254-F0330362N | 277 | 1 | 13.0 |     |   | Not Required | S2 | 36 lbs |
| QX-254-F0330362I | 347 | 1 | 10.4 |     |   | B2           | B3 | 36 lbs |
| QX-254-F0330362U | 480 | 3 | 4.3  |     |   | B2           | B3 | 36 lbs |
| QX-254-F0330362Z | 600 | 3 | 3.5  |     |   | B2           | B3 | 36 lbs |

|                  |     |   |          |         |   |                     |    |            |
|------------------|-----|---|----------|---------|---|---------------------|----|------------|
| QX-254-F0330442D | 208 | 3 | 12.<br>2 | 4.<br>4 | 3 | B2                  | B3 | 36 lb<br>s |
| QX-254-F0330442J | 240 | 1 | 18.<br>3 |         |   | Not<br>Requ<br>ired | S2 | 36 lb<br>s |
| QX-254-F0330442N | 277 | 1 | 15.<br>9 |         |   | Not<br>Requ<br>ired | S2 | 36 lb<br>s |
| QX-254-F0330442I | 347 | 1 | 12.<br>7 |         |   | B2                  | B3 | 36 lb<br>s |
| QX-254-F0330442U | 480 | 3 | 5.3      |         |   | B2                  | B3 | 36 lb<br>s |
| QX-254-F0330442Z | 600 | 3 | 4.3      |         |   | B2                  | B3 | 36 lb<br>s |
| QX-254-F0340652D | 208 | 3 | 18.<br>0 | 6.<br>5 | 4 | B2                  | B3 | 60 lb<br>s |
| QX-254-F0340652J | 240 | 3 | 27.<br>1 |         |   | B2                  | B3 | 60 lb<br>s |
| QX-254-F0340652N | 277 | 1 | 23.<br>5 |         |   | B2                  | B3 | 60 lb<br>s |
| QX-254-F0340652I | 347 | 1 | 18.<br>7 |         |   | B2                  | B3 | 60 lb<br>s |
| QX-254-F0340652U | 480 | 3 | 7.8      |         |   | B2                  | B3 | 60 lb<br>s |
| QX-254-F0340652Z | 600 | 3 | 6.3      |         |   | B2                  | B3 | 60 lb<br>s |

|                  |     |   |          |         |   |    |    |            |
|------------------|-----|---|----------|---------|---|----|----|------------|
| QX-254-F0340752D | 208 | 3 | 20.<br>8 | 7.<br>5 | 4 | B2 | B3 | 60 lb<br>s |
| QX-254-F0340752J | 240 | 1 | 31.<br>3 |         |   | B2 | B3 | 60 lb<br>s |
| QX-254-F0340752N | 277 | 1 | 27.<br>1 |         |   | B2 | B3 | 60 lb<br>s |
| QX-254-F0340752I | 347 | 1 | 21.<br>6 |         |   | B2 | B3 | 60 lb<br>s |
| QX-254-F0340752U | 480 | 3 | 9.0      |         |   | B2 | B3 | 60 lb<br>s |
| QX-254-F0340752Z | 600 | 3 | 7.2      |         |   | B2 | B3 | 60 lb<br>s |
| QX-254-F0340952D | 208 | 3 | 26.<br>4 | 9.<br>5 | 4 | B2 | B3 | 60 lb<br>s |
| QX-254-F0340952J | 240 | 1 | 39.<br>6 |         |   | B2 | B3 | 60 lb<br>s |
| QX-254-F0340952N | 277 | 1 | 34.<br>3 |         |   | B2 | B3 | 60 lb<br>s |
| QX-254-F0340952I | 347 | 1 | 27.<br>4 |         |   | B2 | B3 | 60 lb<br>s |
| QX-254-F0340952U | 480 | 3 | 11.<br>4 |         |   | B2 | B3 | 60 lb<br>s |
| QX-254-F0340952Z | 600 | 3 | 9.1      |         |   | B2 | B3 | 60 lb<br>s |

| ITEM INFORMATION | ELECTRICAL DATA |       | OPTIONAL BUILT-ON | SHI<br>P W<br>T.** |
|------------------|-----------------|-------|-------------------|--------------------|
|                  | UNIT            |       | CONTROLS          |                    |
|                  | VOLTS           | PHASE | CONTROLS T        |                    |
|                  | TOTAL           | KW    | HERMOSTAT ONLY* O |                    |
|                  | CATALOG NO.     | SIZE  | R ONLY THERMOST   |                    |
|                  | AMPS            |       | AT WITH CONTROLS  |                    |

|                  |     |   |     |     |   |   |         |        |
|------------------|-----|---|-----|-----|---|---|---------|--------|
| QX-254-F0310053B | 120 | 1 | 4.2 | 0.5 | 1 | — | 1007002 | 13 lbs |
| QX-254-F0310053C | 208 | 1 | 2.4 |     |   | — | 1007002 | 13 lbs |
| QX-254-F0310053J | 240 | 1 | 2.1 |     |   | — | 1007002 | 13 lbs |
| QX-254-F0310053N | 277 | 1 | 1.8 |     |   | — | 1007002 | 13 lbs |
| QX-254-F0310103B | 120 | 1 | 8.3 | 1.0 | 1 | — | 1007002 | 13 lbs |
| QX-254-F0310103C | 208 | 1 | 4.8 |     |   | — | 1007002 | 13 lbs |
| QX-254-F0310103J | 240 | 1 | 4.2 |     |   | — | 1007002 | 13 lbs |
| QX-254-F0310103N | 277 | 1 | 3.6 |     |   | — | 1007002 | 13 lbs |

|                  |     |   |      |     |   |              |      |        |
|------------------|-----|---|------|-----|---|--------------|------|--------|
| QX-254-F0320183B | 120 | 1 | 15.0 | 1.8 | 2 | Not Required | S1   | 27 lbs |
| QX-254-F0320183C | 208 | 1 | 8.7  |     |   | Not Required | S1   | 27 lbs |
| QX-254-F0320183J | 240 | 1 | 7.5  |     |   | Not Required | S1   | 27 lbs |
| QX-254-F0320183N | 277 | 1 | 6.5  |     |   | Not Required | S1   | 27 lbs |
| QX-254-F0320183I | 347 | 1 | 5.2  |     |   | B2           | B2S1 | 27 lbs |
| QX-254-F0320183U | 480 | 3 | 2.2  |     |   | B2           | B2S1 | 27 lbs |
| QX-254-F0320183Z | 600 | 3 | 1.8  |     |   | B2           | B2S1 | 27 lbs |
| QX-254-F0320253C | 208 | 1 | 12.0 |     |   | Not Required | S1   | 27 lbs |
| QX-254-F0320253D | 208 | 3 | 6.9  |     |   | B2           | B2S1 | 27 lbs |
| QX-254-F0320253J | 240 | 1 | 10.4 |     |   | Not Required | S1   | 27 lbs |
|                  |     |   |      |     |   |              |      |        |

|                  |     |   |          |     |   |                     |      |            |
|------------------|-----|---|----------|-----|---|---------------------|------|------------|
| QX-254-F0320253N | 277 | 1 | 9.0      | 2.5 | 2 | Not<br>Requ<br>ired | S1   | 27 lb<br>s |
| QX-254-F0320253I | 347 | 1 | 7.2      |     |   | B2                  | B2S1 | 27 lb<br>s |
| QX-254-F0320253U | 480 | 3 | 3.0      |     |   | B2                  | B2S1 | 27 lb<br>s |
| QX-254-F0320253Z | 600 | 3 | 2.4      |     |   | B2                  | B2S1 | 27 lb<br>s |
| QX-254-F0330363C | 208 | 1 | 17.<br>3 | 3.6 | 3 | Not<br>Requ<br>ired | S1   | 36 lb<br>s |
| QX-254-F0330363D | 208 | 3 | 10.<br>0 |     |   | B2                  | B2S1 | 36 lb<br>s |
| QX-254-F0330363J | 240 | 1 | 15.<br>0 |     |   | Not<br>Requ<br>ired | S1   | 36 lb<br>s |
| QX-254-F0330363N | 277 | 1 | 13.<br>0 |     |   | Not<br>Requ<br>ired | S1   | 36 lb<br>s |
| QX-254-F0330363I | 347 | 1 | 10.<br>4 |     |   | B3                  | B3S1 | 36 lb<br>s |
| QX-254-F0330363U | 480 | 3 | 4.3      |     |   | B2                  | B2S1 | 36 lb<br>s |
| QX-254-F0330363Z | 600 | 3 | 3.5      |     |   | B2                  | B2S1 | 36 lb<br>s |

|                  |     |   |          |         |   |                     |      |            |
|------------------|-----|---|----------|---------|---|---------------------|------|------------|
| QX-254-F0330443D | 208 | 3 | 12.<br>2 | 4.<br>4 | 3 | B2                  | B2S1 | 36 lb<br>s |
| QX-254-F0330443J | 240 | 1 | 18.<br>3 |         |   | Not<br>Requ<br>ired | S1   | 36 lb<br>s |
| QX-254-F0330443N | 277 | 1 | 15.<br>9 |         |   | Not<br>Requ<br>ired | S1   | 36 lb<br>s |
| QX-254-F0330443I | 347 | 1 | 12.<br>7 |         |   | B2                  | B3S1 | 36 lb<br>s |
| QX-254-F0330443U | 480 | 3 | 5.3      |         |   | B2                  | B2S1 | 36 lb<br>s |
| QX-254-F0330443Z | 600 | 3 | 4.3      |         |   | B2                  | B2S1 | 36 lb<br>s |
| QX-254-F0340653D | 208 | 3 | 18.<br>0 | 6.<br>5 | 4 | B2                  | B2S1 | 60 lb<br>s |
| QX-254-F0340653J | 240 | 1 | 27.<br>1 |         |   | B2                  | B2S1 | 60 lb<br>s |
| QX-254-F0340653N | 277 | 1 | 23.<br>5 |         |   | B2                  | B2S1 | 60 lb<br>s |
| QX-254-F0340653I | 347 | 1 | 18.<br>7 |         |   | B2                  | B2S1 | 60 lb<br>s |
| QX-254-F0340653U | 480 | 3 | 7.8      |         |   | B2                  | B2S1 | 60 lb<br>s |
| QX-254-F0340653Z | 600 | 3 | 6.3      |         |   | B2                  | B2S1 | 60 lb<br>s |

|                  |     |   |          |         |   |    |      |            |
|------------------|-----|---|----------|---------|---|----|------|------------|
| QX-254-F0340753D | 208 | 3 | 20.<br>8 | 7.<br>5 | 4 | B2 | B2S1 | 60 lb<br>s |
| QX-254-F0340753J | 240 | 1 | 31.<br>3 |         |   | B2 | B2S1 | 60 lb<br>s |
| QX-254-F0340753N | 277 | 1 | 27.<br>1 |         |   | B2 | B2S1 | 60 lb<br>s |
| QX-254-F0340753I | 347 | 1 | 21.<br>6 |         |   | B2 | B2S1 | 60 lb<br>s |
| QX-254-F0340753U | 480 | 3 | 9.0      |         |   | B2 | B2S1 | 60 lb<br>s |
| QX-254-F0340753Z | 600 | 3 | 7.2      |         |   | B2 | B2S1 | 60 lb<br>s |
| QX-254-F0340953D | 208 | 3 | 26.<br>4 | 9.<br>5 | 4 | B2 | B2S1 | 60 lb<br>s |
| QX-254-F0340953J | 240 | 1 | 39.<br>6 |         |   | B2 | B2S1 | 60 lb<br>s |
| QX-254-F0340953N | 277 | 1 | 34.<br>3 |         |   | B2 | B2S1 | 60 lb<br>s |
| QX-254-F0340953I | 347 | 1 | 27.<br>4 |         |   | B2 | B2S1 | 60 lb<br>s |
| QX-254-F0340953U | 480 | 3 | 11.<br>4 |         |   | B2 | B2S1 | 60 lb<br>s |
| QX-254-F0340953Z | 600 | 3 | 9.1      |         |   | B2 | B2S1 | 60 lb<br>s |

| ITEM INFORMATION | ELECTRICAL DATA |       | OPTIONAL BUILT-ON | SHI<br>P W<br>T.** |
|------------------|-----------------|-------|-------------------|--------------------|
|                  | UNIT            |       | CONTROLS          |                    |
|                  | VOLTS           | PHASE | T                 |                    |
|                  | TOTAL           | KW    | HERMOSTAT ONLY* O |                    |
|                  | CATALOG NO.     | SIZE  | R ONLY            |                    |
|                  | AMPS            |       | AT WITH CONTROLS  |                    |

|                  |     |   |      |     |   |              |         |        |
|------------------|-----|---|------|-----|---|--------------|---------|--------|
| QX-254-F0610052B | 120 | 1 | 4.2  | 0.5 | 1 | —            | 1024754 | 13 lbs |
| QX-254-F0610052C | 208 | 1 | 2.4  |     |   | —            | 1024754 | 13 lbs |
| QX-254-F0610052J | 240 | 1 | 2.1  |     |   | —            | 1024754 | 13 lbs |
| QX-254-F0610052N | 277 | 1 | 1.8  |     |   | —            | 1024754 | 13 lbs |
| QX-254-F0620142B | 120 | 1 | 11.7 | 1.4 | 2 | Not Required | S2      | 27 lbs |
| QX-254-F0620142C | 208 | 1 | 6.7  |     |   | Not Required | S2      | 27 lbs |
| QX-254-F0620142J | 240 | 1 | 5.8  |     |   | Not Required | S2      | 27 lbs |
|                  |     |   |      |     |   |              |         |        |

|                  |     |   |          |         |   |                     |    |            |
|------------------|-----|---|----------|---------|---|---------------------|----|------------|
| QX-254-F0620142N | 277 | 1 | 5.1      |         |   | Not<br>Requ<br>ired | S2 | 27 lb<br>s |
| QX-254-F0620142I | 347 | 1 | 4.0      |         |   | B2                  | B3 | 27 lb<br>s |
| QX-254-F0630232B | 120 | 1 | 19.<br>2 | 2.<br>3 | 3 | Not<br>Requ<br>ired | S2 | 36 lb<br>s |
| QX-254-F0630232C | 208 | 1 | 11.<br>1 |         |   | Not<br>Requ<br>ired | S2 | 36 lb<br>s |
| QX-254-F0630232D | 208 | 3 | 6.4      |         |   | B2                  | B3 | 36 lb<br>s |
| QX-254-F0630232J | 240 | 1 | 9.6      |         |   | Not<br>Requ<br>ired | S2 | 36 lb<br>s |
| QX-254-F0630232N | 277 | 1 | 8.3      |         |   | Not<br>Requ<br>ired | S2 | 36 lb<br>s |
| QX-254-F0630232I | 347 | 1 | 6.6      |         |   | B2                  | B3 | 36 lb<br>s |
| QX-254-F0630232U | 480 | 3 | 2.8      |         |   | B2                  | B3 | 36 lb<br>s |
| QX-254-F0630232Z | 600 | 3 | 2.2      |         |   | B2                  | B3 | 36 lb<br>s |
|                  |     |   |          |         |   |                     |    |            |

|                  |     |   |      |     |   |              |    |        |
|------------------|-----|---|------|-----|---|--------------|----|--------|
| QX-254-F0640322C | 208 | 1 | 15.4 | 3.2 | 4 | Not Required | S2 | 60 lbs |
| QX-254-F0640322D | 208 | 3 | 8.9  |     |   | B2           | B3 | 60 lbs |
| QX-254-F0640322J | 240 | 1 | 13.3 |     |   | Not Required | S2 | 60 lbs |
| QX-254-F0640322N | 277 | 1 | 11.6 |     |   | Not Required | S2 | 60 lbs |
| QX-254-F0640322I | 347 | 1 | 9.2  |     |   | B2           | B3 | 60 lbs |
| QX-254-F0640322U | 480 | 3 | 3.8  |     |   | B2           | B3 | 60 lbs |
| QX-254-F0640322Z | 600 | 3 | 3.1  |     |   | B2           | B3 | 60 lbs |
| QX-254-F0640502D | 208 | 3 | 13.9 | 5.0 | 4 | B2           | B3 | 60 lbs |
| QX-254-F0640502J | 240 | 1 | 20.8 |     |   | Not Required | S2 | 60 lbs |
| QX-254-F0640502N | 277 | 1 | 18.1 |     |   | Not Required | S2 | 60 lbs |
| QX-254-F0640502I | 347 | 1 | 14.4 |     |   | B2           | B3 | 60 lbs |

|                  |     |   |     |  |  |    |    |        |
|------------------|-----|---|-----|--|--|----|----|--------|
| QX-254-F0640502U | 480 | 3 | 6.0 |  |  | B2 | B3 | 60 lbs |
| QX-254-F0640502Z | 600 | 3 | 4.8 |  |  | B2 | B3 | 60 lbs |

| ITEM INFORMATION | ELECTRICAL DATA |            | OPTIONAL BUILT-ON CONTROLS |                                             | SHIP WEIGHT.** |
|------------------|-----------------|------------|----------------------------|---------------------------------------------|----------------|
|                  | UNIT            |            |                            |                                             |                |
|                  | VOLTS           | PHASE      | CONTROLS                   | T                                           |                |
|                  | CATALOG NO.     | TOTAL SIZE | KW                         | HERMOSTAT ONLY* OR THERMOSTAT WITH CONTROLS |                |

|                  |     |   |      |     |   |              |         |        |
|------------------|-----|---|------|-----|---|--------------|---------|--------|
| QX-254-F0610053B | 120 | 1 | 4.2  | 0.5 | 1 | —            | 1007002 | 13 lbs |
| QX-254-F0610053C | 208 | 1 | 2.4  |     |   | —            | 1007002 | 13 lbs |
| QX-254-F0610053J | 240 | 1 | 2.1  |     |   | —            | 1007002 | 13 lbs |
| QX-254-F0610053N | 277 | 1 | 1.8  |     |   | —            | 1007002 | 13 lbs |
| QX-254-F0620143B | 120 | 1 | 11.7 |     |   | Not Required | S1      | 27 lbs |
| QX-254-F0620143C | 208 | 1 | 6.7  |     |   | Not Required | S1      | 27 lbs |

|                  |     |   |          |         |   |                     |      |            |
|------------------|-----|---|----------|---------|---|---------------------|------|------------|
| QX-254-F0620143J | 240 | 1 | 5.8      | 1.<br>4 | 2 | Not<br>Requ<br>ired | S1   | 27 lb<br>s |
| QX-254-F0620143N | 277 | 1 | 5.1      |         |   | Not<br>Requ<br>ired | S1   | 27 lb<br>s |
| QX-254-F0620143I | 347 | 1 | 4.0      |         |   | B2                  | B2S1 | 27 lb<br>s |
| QX-254-F0630233B | 120 | 1 | 19.<br>2 | 2.<br>3 | 3 | Not<br>Requ<br>ired | S1   | 36 lb<br>s |
| QX-254-F0630233C | 208 | 1 | 11.<br>1 |         |   | Not<br>Requ<br>ired | S1   | 36 lb<br>s |
| QX-254-F0630233D | 208 | 3 | 6.4      |         |   | B2                  | B2S1 | 36 lb<br>s |
| QX-254-F0630233J | 240 | 1 | 9.6      |         |   | Not<br>Requ<br>ired | S1   | 36 lb<br>s |
| QX-254-F0630233N | 277 | 1 | 8.3      |         |   | Not<br>Requ<br>ired | S1   | 36 lb<br>s |
| QX-254-F0630233I | 347 | 1 | 6.6      |         |   | B2                  | B2S1 | 36 lb<br>s |
| QX-254-F0630233U | 480 | 3 | 2.8      |         |   | B2                  | B2S1 | 36 lb<br>s |
|                  |     |   |          |         |   |                     |      |            |

|                  |     |   |      |     |   |              |      |        |
|------------------|-----|---|------|-----|---|--------------|------|--------|
| QX-254-F0630233Z | 600 | 3 | 2.2  |     |   | B2           | B2S1 | 36 lbs |
| QX-254-F0640323C | 208 | 1 | 15.4 | 3.2 | 4 | Not Required | S1   | 60 lbs |
| QX-254-F0640323D | 208 | 3 | 8.9  |     |   | B2           | B2S1 | 60 lbs |
| QX-254-F0640323J | 240 | 1 | 13.3 |     |   | Not Required | S1   | 60 lbs |
| QX-254-F0640323N | 277 | 1 | 11.6 |     |   | Not Required | S1   | 60 lbs |
| QX-254-F0640323I | 347 | 1 | 9.2  |     |   | B2           | B2S1 | 60 lbs |
| QX-254-F0640323U | 480 | 3 | 3.8  |     |   | B2           | B2S1 | 60 lbs |
| QX-254-F0640323Z | 600 | 3 | 3.1  |     |   | B2           | B2S1 | 60 lbs |
| QX-254-F0640503D | 208 | 3 | 13.9 |     |   | B2           | B2S1 | 60 lbs |
| QX-254-F0640503J | 240 | 1 | 20.8 |     |   | Not Required | S1   | 60 lbs |
| QX-254-F0640503N | 277 | 1 | 18.1 |     |   | Not Required | S1   | 60 lbs |

|                  |     |   |      |     |   |    |      |        |
|------------------|-----|---|------|-----|---|----|------|--------|
| QX-254-F0640503I | 347 | 1 | 14.4 | 5.0 | 4 | B2 | B2S1 | 60 lbs |
| QX-254-F0640503U | 480 | 3 | 6.0  |     |   | B2 | B2S1 | 60 lbs |
| QX-254-F0640503Z | 600 | 3 | 4.8  |     |   | B2 | B2S1 | 60 lbs |

Convectors are 60/50 Hz rated \*Thermostat only is load carrying or remote. \*\*Without controls.

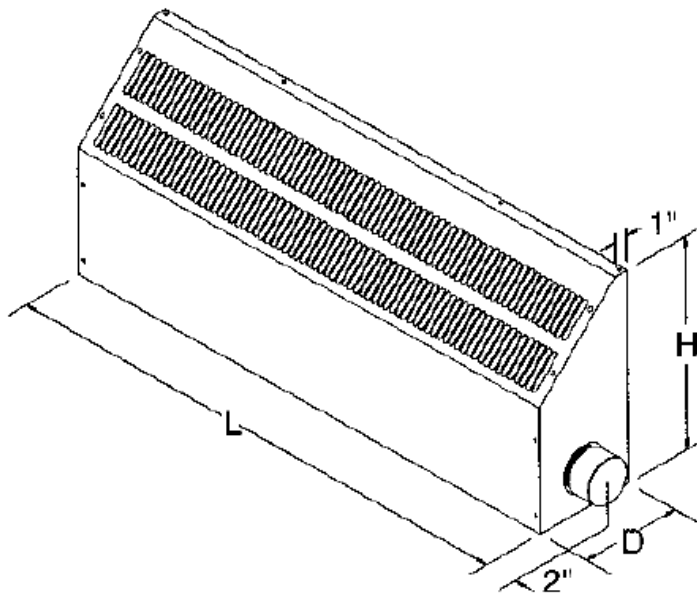
| ITEM INFORMATION | ELECTRICAL DATA |       |  | OPTIONAL BUILT-ON CONTROLS                       |            |
|------------------|-----------------|-------|--|--------------------------------------------------|------------|
|                  | UNIT            |       |  |                                                  |            |
|                  | VOLTS           | PHASE |  | CONTROLS                                         | T          |
| CATALOG NO.      | TOTAL SIZE      | KW    |  | HERMOSTAT ONLY* OR ONLY THERMOSTAT WITH CONTROLS | SHIP WT.** |

|                  |     |   |     |     |   |   |         |        |
|------------------|-----|---|-----|-----|---|---|---------|--------|
| QX-254-F0810054B | 120 | 1 | 4.2 | 0.5 | 1 | — | 1007002 | 13 lbs |
| QX-254-F0810054C | 208 | 1 | 2.4 |     |   | — | 1007002 | 13 lbs |
| QX-254-F0810054J | 240 | 1 | 2.1 |     |   | — | 1007002 | 13 lbs |
| QX-254-F0810054N | 277 | 1 | 1.8 |     |   | — | 1007002 | 13 lbs |

|                  |     |   |          |         |   |                     |      |            |
|------------------|-----|---|----------|---------|---|---------------------|------|------------|
| QX-254-F0820104B | 120 | 1 | 8.3      | 1.<br>0 | 2 | Not<br>Requ<br>ired | S1   | 27 lb<br>s |
| QX-254-F0820104C | 208 | 1 | 4.8      |         |   | Not<br>Requ<br>ired | S1   | 27 lb<br>s |
| QX-254-F0820104J | 240 | 1 | 4.2      |         |   | Not<br>Requ<br>ired | S1   | 27 lb<br>s |
| QX-254-F0820104N | 277 | 1 | 3.6      |         |   | Not<br>Requ<br>ired | S1   | 27 lb<br>s |
| QX-254-F0820104I | 347 | 1 | 2.9      |         |   | B2                  | B2S1 | 27 lb<br>s |
| QX-254-F0830174B | 120 | 1 | 14.<br>2 | 1.      |   | Not<br>Requ<br>ired | S1   | 36 lb<br>s |
| QX-254-F0830174C | 208 | 1 | 8.2      |         |   | Not<br>Requ<br>ired | S1   | 36 lb<br>s |
| QX-254-F0830174D | 208 | 3 | 4.7      |         |   | B2                  | B2S1 | 36 lb<br>s |
| QX-254-F0830174J | 240 | 1 | 7.1      |         |   | Not<br>Requ<br>ired | S1   | 36 lb<br>s |
| QX-254-F0830174N | 277 | 1 | 6.1      |         |   | Not<br>Requ<br>ired | S1   | 36 lb<br>s |

|                  |     |   |      |     |   |              |      |        |
|------------------|-----|---|------|-----|---|--------------|------|--------|
| QX-254-F0830174I | 347 | 1 | 4.9  | 7   | 3 | B2           | B2S1 | 36 lbs |
| QX-254-F0830174U | 480 | 3 | 2    |     |   | B2           | B2S1 | 36 lbs |
| QX-254-F0830174Z | 600 | 3 | 1.6  |     |   | B2           | B2S1 | 36 lbs |
| QX-254-F0840324C | 208 | 1 | 15.4 | 3.2 | 4 | Not Required | S1   | 36 lbs |
| QX-254-F0840324D | 208 | 3 | 8.9  |     |   | B2           | B2S1 | 60 lbs |
| QX-254-F0840324J | 240 | 1 | 13.3 |     |   | Not Required | S1   | 60 lbs |
| QX-254-F0840324N | 277 | 1 | 11.6 |     |   | Not Required | S1   | 60 lbs |
| QX-254-F0840324I | 347 | 1 | 9.2  |     |   | B2           | B2S1 | 60 lbs |
| QX-254-F0840324U | 480 | 3 | 3.8  |     |   | B2           | B2S1 | 60 lbs |
| QX-254-F0840324Z | 600 | 3 | 3.1  |     |   | B2           | B2S1 | 60 lbs |

## Dimensions and Clearances:



| SIZE | L     | H   | D   |
|------|-------|-----|-----|
| 1    | 26"   | 6"  | 4 ½ |
| 2    | 26"   | 16" | 8   |
| 3    | 39"   | 16" | 8   |
| 4    | 67 ½" | 16" | 8   |

## Electrical Package Options

All single-phase heaters rated over 22 amps or 277 volts and all three-phase heaters require a magnetic contactor. Some electrical combinations will also require a control transformer. To simplify field installation, these accessories are factory-mounted on the heater cabinet and factory pre-wired (not available on Size 1 convectors).

| CATAL<br>OG NO<br>. | OP<br>TIO<br>N                                   |  | DESCRIPTION                                                                                                                                                                   |
|---------------------|--------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B2                  | Electric Control Option*<br>(without thermostat) |  | Classes I and II, Groups B, C, E, D, F and G includes contactor and transformer (as required). Required for all three-phase and singlephase heaters over 22 amps or 277 volts |
| B2S1                | Thermostat & Controls*                           |  | Classes I and II, Groups C, D, E, F and G includes thermostat, contactor and transformer (as required).                                                                       |
| B3                  | Thermostat & Controls<br>(Group B)*              |  | Classes I and II, Groups B, C, D, E, F and G includes thermostat, contactor and transformer (as required). Thermostat has internal set point.                                 |

|    |                            |       |                                                                                                                                                                                                                     |
|----|----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S1 | The<br>rmo<br>stat         | Only* | Classes I and II, Groups C, D, E, F and G single-phase heaters rated up to 22 amps at 120-277 volts. Use remote room thermostat Catalog Number 1007002 for Size 1 convectors.                                       |
| S2 | Thermostat Only (Group B)* |       | Classes I and II, Groups B, C, D, E, F and G single-phase heaters rated up to 22 amps at 120-277 volts. Thermostat has internal set point. Use remote room thermostat Catalog Number 1024754 for Size 1 convectors. |

### Custom Options:

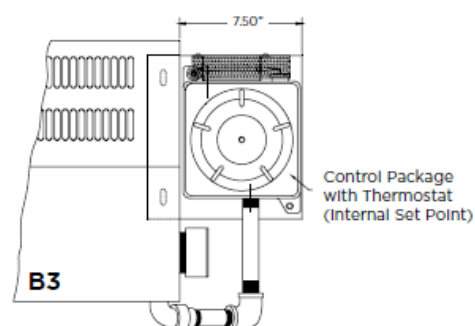
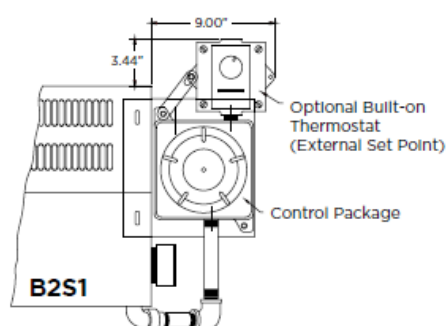
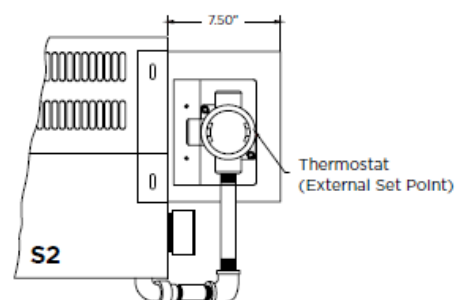
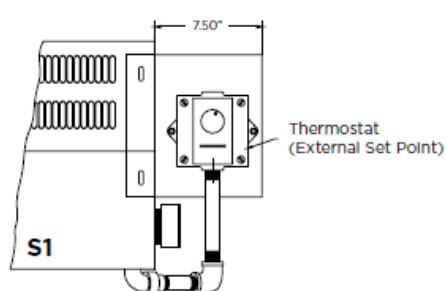
| CATALOG NO. | OPTION                                           | DESCRIPTION                                                                                                                                                                                                                           |
|-------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C1          | Wet Locations                                    | Type 3 rated construction. Includes Iridite coated element assembly and gasketed terminal box. Not available with options B2/S1, S1, or S2.                                                                                           |
| C2          | Corrosive-Resistant Stainless Steel Construction | Type 3 rated construction with addition of stainless steel cabinet. Includes Iridite coated element assembly and gasketed terminal box. Not available with options B2/S1, S1, or S2. ONLY the cabinet is upgraded to stainless steel. |

### Accessory Remote Thermostats:

| CATALOG NO. | SWITCH TYPE | TYPE | RATING | TEMP RANGE | DESCRIPTION |
|-------------|-------------|------|--------|------------|-------------|
|             |             |      |        |            |             |

|                |                                           |                  |                       |                                 |                                                                                                |
|----------------|-------------------------------------------|------------------|-----------------------|---------------------------------|------------------------------------------------------------------------------------------------|
| 100700<br>2    | Bimetal                                   | S<br>P<br>D<br>T | 125-27<br>7V, 22<br>A | 50°–9<br>0°F (1<br>0°–32°<br>C) | Class 1, Div. 1, Groups C & D Class II,<br>Div. 1, Groups E, F, & G                            |
| QX-102<br>4754 | Bulb and<br>Capillary<br>with<br>Internal | S<br>P<br>D<br>T | 120-24<br>0V, 25<br>A | 40°–1<br>20°F (                 | Class 1, Div. 1, Groups B, C & D Class II<br>, Div. 1, Groups E, F, & G                        |
| QX-102<br>5396 | Set Point<br>Adjustm<br>ent               | S<br>P<br>ST     | 277V,<br>22A          | 5°–49°<br>C)                    | Corrosion-Resistant Class 1, Div. 1, Gro<br>ups B, C, & D Class II, Div. 1, Groups E,<br>F & G |

## Thermostat Options



**S1 & B2S1**, rated for  
Class I, Groups C & D | Class II, Groups E, F, & G

**S2 & B3**, rated for  
Class I, Groups B, C & D | Class II, Groups E, F, & G

## How to Order

Example:

|           |   |            |   |          |           |          |            |          |          |   |             |
|-----------|---|------------|---|----------|-----------|----------|------------|----------|----------|---|-------------|
| <b>QX</b> | - | <b>254</b> | - | <b>F</b> | <b>03</b> | <b>1</b> | <b>025</b> | <b>2</b> | <b>U</b> | - | <b>B2S1</b> |
|-----------|---|------------|---|----------|-----------|----------|------------|----------|----------|---|-------------|

**Brand: QX**

**Series: 254** = Convection Heat, Explosion Proof

**Agency Approval: F** = cCSAus Approval (standard), **N** = No Approval

**NEC Temperature Rating: 02** = T2: 572°F/300°C, **03** = T2A: 536°F/280°C, **04** = T2B: 500°F/260°C, **05** = T2C: 446°F/230°C, **06** = T3A: 356°F/180°C, **07** = T3: 392°F/200°C, **08** = T3C: 320°F/160°C, **09** = T3B: 329°F/165°C, **00** = Non-Hazardous

**Cabinet Size: 1** = 1 Element (6" x 26" x 4 ½"), **2** = 2 Element (16" x 26" x 8"), **3** = 2 Element (16" x 39.5" x 8"), **4** = 2 Element (16" x 67 ½" x 8")

**kW\*: 005, 010, 014, 017, 018, 023, 025, 032, 036, 044, 050, 065, 075, 095**

**Location Rating: 1** = Class 1, Group D; **2** = Class 1, Groups B, C, D; **3** = Class 1, Groups C, D; **4** = Class 2, Groups E, F, G; **5** = Class 1, Group B; **6** = Class 1, Group C; **10** = Non-Hazardous

**Factory Install Options:**  
**B2\*\*\*** = Electric Control Option (without thermostat),  
**B2S1\*\*\*** = Thermostat & Controls,  
**B3\*\*\*** = Thermostat & Controls (Group B), **S1\*\*\*** = Thermostat Only, **S2\*\*\*** = Thermostat Only (Group B), **C1** = Wet Locations, **C2** = Corrosive-Resistant Stainless Steel Construction

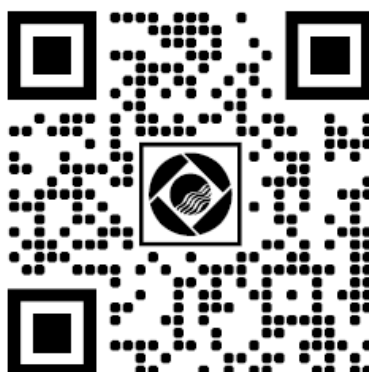
**Voltage & Phase:**  
**Standard Offering**  
**B** = 120/1, **C** = 208/1, **D** = 208/3, **J** = 240/1, **K** = 240/3, **N** = 277/1, **T** = 480/1, **U** = 480/3.  
**Additional/Special Offering**  
**A** = 115/1, **E** = 220/1, **F** = 220/3, **G** = 230/1, **H** = 230/3, **I** = 347/1, **L** = 254/1, **M** = 266/1, **O\*\*** = Special, **P** = 440/1, **Q** = 440/3, **R** = 460/1, **S** = 460/3, **V** = 208/240/1, **W** = 575/1, **X** = 575/3, **Y** = 600/1, **Z** = 600/3

- From 0.1-99.9 kW, rounded to the nearest 1/10 kW. Varies by Temperature and Class Rating.
- For custom requests, contact Marley sales representative for assistance and additional detail
- Not available on Size 1 Convectors.
- Contact Marley Sales Representative for additional configuration details

No matter the industry or application, Marley Engineered Products has a robust portfolio of innovative, reliable, high-performance comfort heating and ventilation solutions for all your heating needs.

For more information or assistance on your next project, contact Technical Services at [800-642-4328](tel:800-642-4328)

**Scan the QR code to access additional specs and features**



# Documents / Resources



[QMARK QX Series Explosion Proof Convectors \[pdf\]](#) User Manual  
QX-254-F0310052B, QX-254-F0310052C, QX-254-F0310052J, QX Series  
s Explosion Proof Convectors, QX Series, Explosion Proof Convectors,  
Proof Convectors, Convectors

## References

- [User Manual](#)

QMARK

Convectors, Explosion Proof Convectors, Proof Convectors, QMARK, QX Series, QX Series Explosion Proof Convectors, QX-254-F0310052B, QX-254-F0310052C, QX-254-F0310052J

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