



# ***Manitowoc***

## **Foodservice**

## **Parts Manual**

For more Parts Information:  
<https://manitowocfsg.sysonline.com/Default.aspx>

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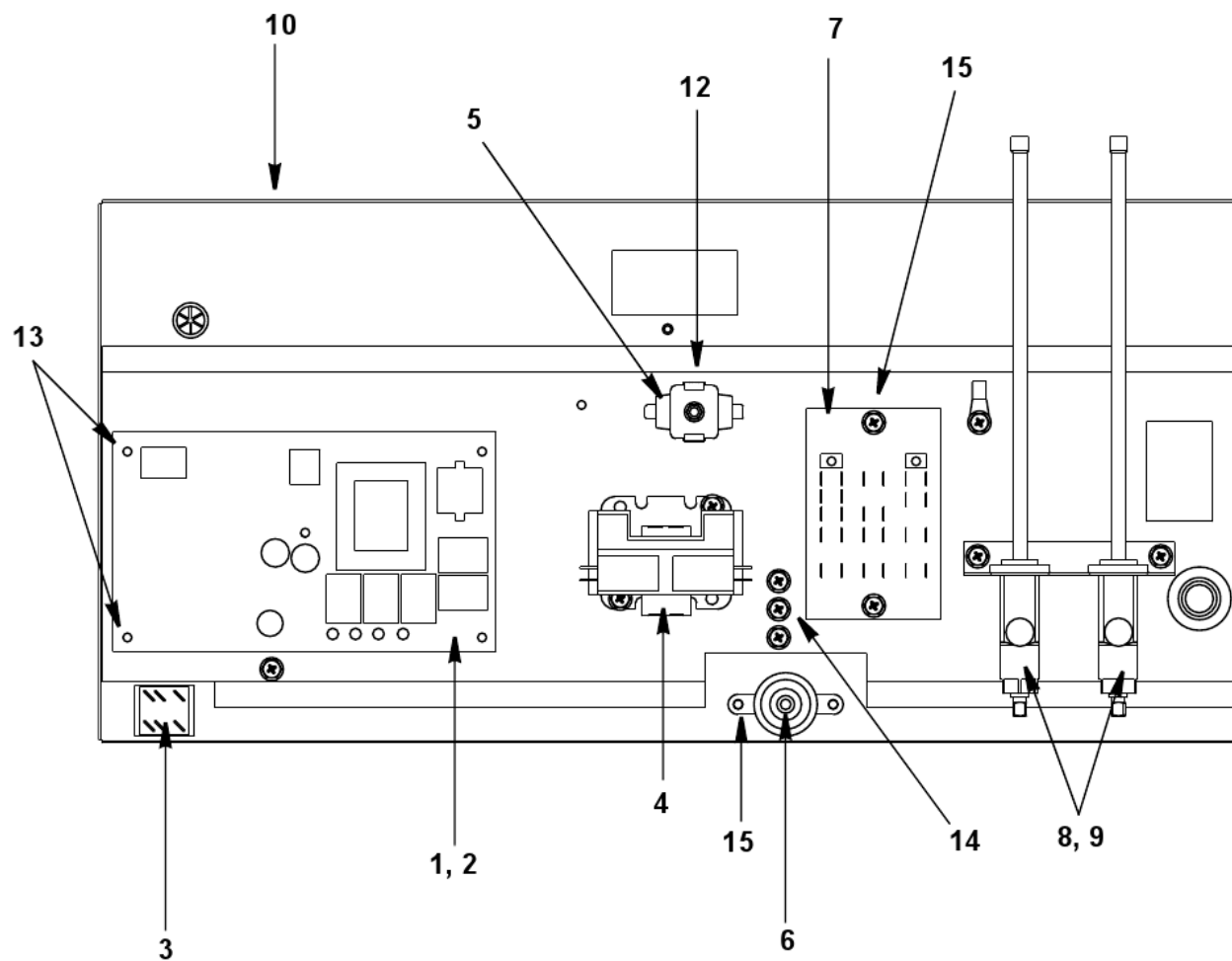
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# Q0420

## Q0420 - CONTROL BOX COMPONENTS



# Q0420

## Q0420 - CONTROL BOX COMPONENTS

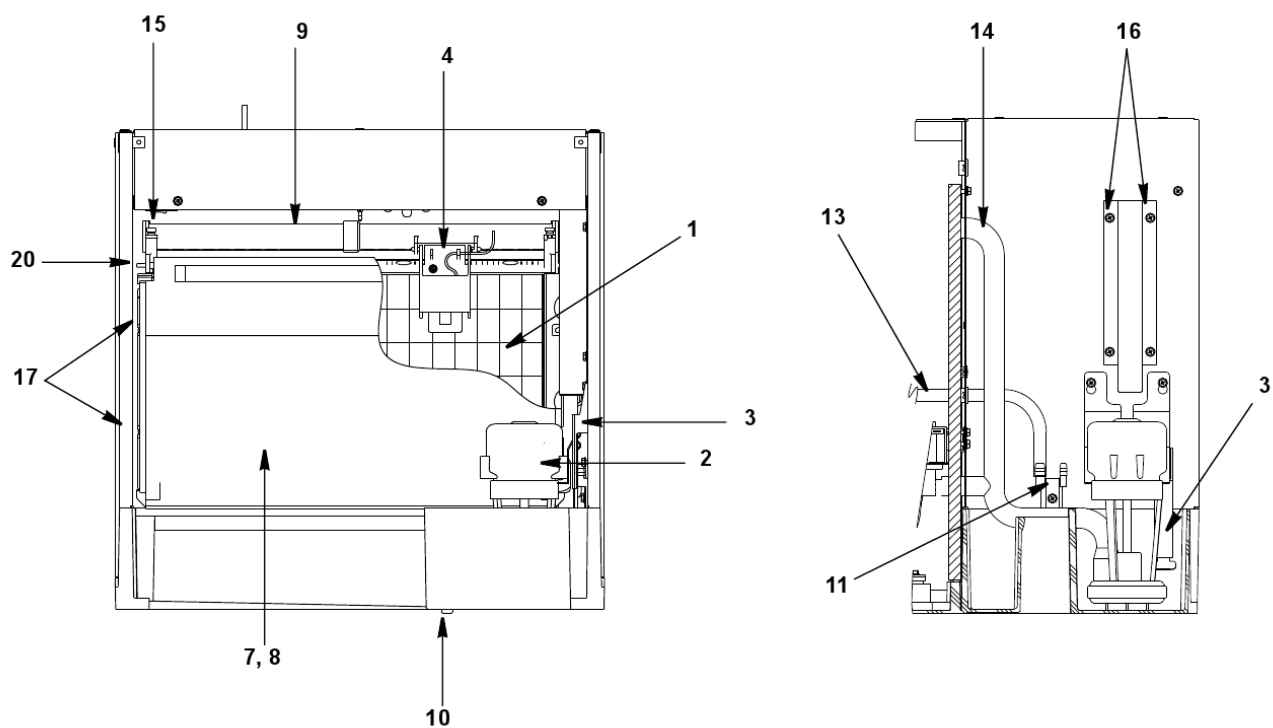
| #  | PART #  | DESCRIPTION                                | QTY | Note |
|----|---------|--------------------------------------------|-----|------|
| 1  | 7627823 | Control Board                              |     |      |
| 2  | 2511003 | 7 Amp Fuse - Mounted on Control Board      |     |      |
| 3  | 2301343 | Toggle Switch Only                         |     |      |
| 3a | 2032173 | Toggle Switch with Wiring Harness Attached |     |      |
| 4  |         | Contactor                                  |     |      |
| 4a | 2006589 | Contactor - 115V/60 Hz/1 Ph                |     |      |
| 4b | 2006599 | Contactor - 230V/50-60 Hz/1 Ph             |     |      |
| 5  | 8505003 | PTCR Compressor Starter                    |     |      |
| 6  |         | Run Capacitor                              |     |      |
| 6a | 2010143 | Run Capacitor - 115V/60 Hz/1 Ph            |     |      |
| 6b | 8504003 | Run Capacitor - 208-230V/50-60 Hz/1 Ph     |     |      |
| 7a | 2355369 | High Pressure Cut-out Control              |     | [1]  |
| 7b | 2001243 | High Pressure Cut-out Control              |     | [2]  |
| 8  |         | Terminal Board with Wire Harness Attached  |     |      |
| 8a | 2032283 | Wiring Harness - 115V/60 Hz/1 Ph           |     |      |
| 8b | 2032293 | Wiring Harness - 230V/60 Hz/1 Ph           |     |      |
| 8c |         | Wiring Harness - 230V/50 Hz/1 Ph           |     | [3]  |
| 9  | 8373263 | Refrigeration Service Valve Assembly       |     |      |
| 10 | 5475039 | Locknut - 0.375" - 18 NPS                  |     |      |
| 11 |         | Control Box                                |     |      |
| 12 | 7628033 | Control Box Cover                          |     |      |
| 13 | 8505023 | PTCR Mounting Bracket                      |     |      |
| 14 | 4302253 | Control Board Mounting Supports            |     |      |
| 15 | 5202169 | Screw - #10-24 x 0.50" Ground              |     |      |
| 16 | 5121669 | Screw - #8-32 x 0.50"                      |     |      |

### PART NOTES:

- [1] - Manual Reset
- [2] - Auto Reset
- [3] - No Longer Available

# Q0420

## Q0420 - EVAPORATOR COMPARTMENT - COMMON COMPONENTS



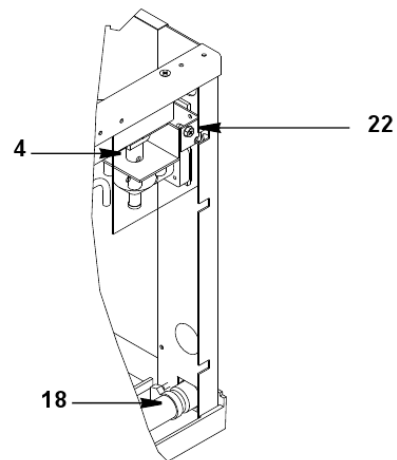
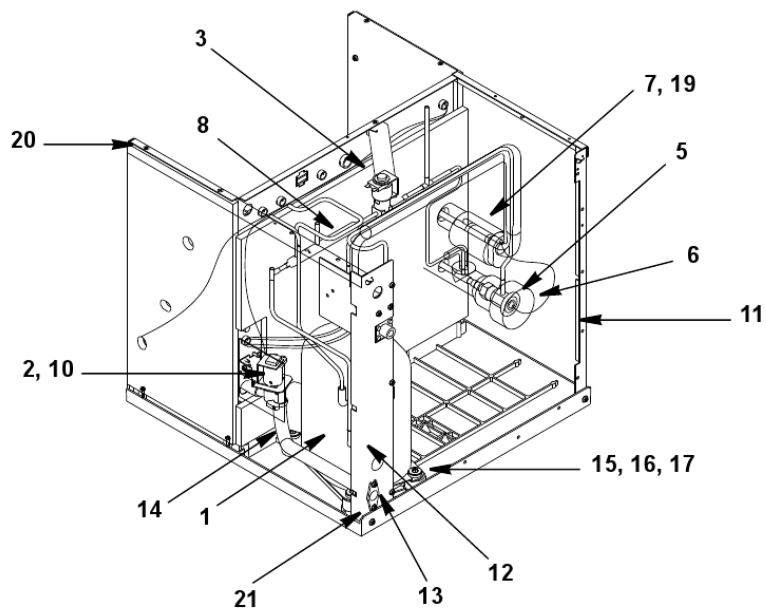
# Q0420

## Q0420 - EVAPORATOR COMPARTMENT - COMMON COMPONENTS

| #  | PART #  | DESCRIPTION                                       | QTY | Note |
|----|---------|---------------------------------------------------|-----|------|
| 1  |         | Evaporator Assembly                               |     |      |
| 1a | 7625129 | Evaporator - Regular Cube                         |     |      |
| 1b | 7625119 | Evaporator - Dice Cube                            |     |      |
| 1c | 7625109 | Evaporator - Half Dice Cube                       |     |      |
| 2  |         | Water Pump                                        |     |      |
| 2a | 7623063 | Water Pump - 115V/60 Hz                           |     |      |
| 2b | 7626013 | Water Pump - 230V/50-60 Hz                        |     |      |
| 3  | 2511293 | Water Level Probe                                 |     |      |
| 4  | 7627813 | Ice Thickness Control Probe                       |     |      |
| 5  | 2301483 | Magnetic Bin Switch                               |     |      |
| 6  | 7620543 | Water Flow Clamp - Use on Regular Cube Evap. Only |     |      |
| 7  | 4009113 | Water Curtain Up to SN 020566500                  |     |      |
| 8  | 4004793 | Water Curtain After SN 020566500                  |     |      |
| 9  | 7624983 | Water Distribution Tube - B/J/Q                   |     |      |
| 10 | 4300629 | Water Trough Plug                                 |     |      |
| 11 | 4303883 | Water Inlet Flow Tube                             |     |      |
| 12 | 7628023 | Water Curtain Magnet and Cap                      |     |      |
| 13 | 4421113 | Water Inlet Tubing 0.375 ID                       |     |      |
| 14 | 4009543 | Water Pump Tubing                                 |     |      |
| 15 | 5000013 | Thumbscrew - #8-32 x 0.375"                       |     |      |
| 16 | 5202069 | Screw - #10-24 x 0.50" HEX                        |     |      |
| 17 | 5202189 | Screw - #10-24 x 0.75"                            |     |      |
| 18 | 7628063 | Base and Water Trough Repair Kit                  |     |      |
| 19 | 7626213 | Evaporator Top Molding and Gasket Assembly        |     |      |
| 20 | 7627763 | Water Curtain Pin Assembly                        |     |      |

# Q0420

## Q0420 - REFRIGERATION COMPARTMENT - COMMON COMPONENTS



# Q0420

## Q0420 - REFRIGERATION COMPARTMENT - COMMON COMPONENTS

| #  | PART #    | DESCRIPTION                                          | QTY | Note |
|----|-----------|------------------------------------------------------|-----|------|
| 1  |           | Compressor                                           |     |      |
| 1a | 7628103   | Compressor - Tecumseh - 115V/60 Hz/1 Ph              |     |      |
| 1b | 8505553   | Overload                                             |     |      |
| 1c | 7628123   | Compressor - Tecumseh - 208-230V/60 Hz/1 Ph          |     |      |
| 1d | 8505563   | Overload                                             |     |      |
| 1e | 7628113   | Compressor - Tecumseh - 230V/50 Hz/1 Ph              |     |      |
| 1f | 8505573   | Overload                                             |     |      |
| 2  |           | Water Dump Valve                                     |     |      |
| 2a | 000001767 | Water Dump Valve - 115V/60 Hz                        |     |      |
| 2b | 000001768 | Water Dump Valve - 208-230V/50-60 Hz                 |     |      |
| 3  |           | Hot Gas Valve                                        |     |      |
| 3a | 7630011   | Danfoss Solenoid Valve With Coil - 115V/60 Hz        |     |      |
| 3b | 000005156 | Danfoss Solenoid Valve Coil Only - 115V/60 Hz        |     | [1]  |
| 3c | 2404363   | Alco Solenoid Valve Coil Only - 115V/60 Hz           |     |      |
| 3d | 7630071   | Danfoss Solenoid Valve With Coil - 208-230V/50-60 Hz |     |      |
| 3e | 000005157 | Danfoss Solenoid Valve Coil Only - 230V/50-60 Hz     |     | [2]  |
| 3f | 2404483   | Alco Solenoid Valve Coil Only - 230V/50 Hz           |     |      |
| 4  |           | Water Inlet Valve                                    |     |      |
| 4a | 000007965 | Water Inlet Valve - 115V/60 Hz/1 Ph                  |     |      |
| 4b | 000007966 | Water Inlet Valve - 208-230V/50-60 Hz                |     |      |
| 5  | 7600193   | Expansion Valve                                      |     |      |
| 6  |           | Expansion Valve Body Insulation Boot                 |     |      |
| 6a | 4007213   | Valve Insulation Boot - Body                         |     |      |
| 6b | 4000363   | Valve Insulation Boot - Body                         |     |      |
| 7  | 4007203   | Valve Insulation Boot - Bulb                         |     | [3]  |
| 8  | 8310163   | Manifold Strainer                                    |     |      |
| 9  | 2078103   | Water Pump Electrical Wire Lead                      |     |      |
| 10 | 6035641   | Dump Valve Mounting Bracket                          |     |      |
| 11 | 6025341   | Left Corner Post Weldment                            |     |      |
| 12 | 6025331   | Right Corner Post Weldment                           |     |      |
| 13 | 8706083   | Female Wing Adapter - 0.50"                          |     |      |
| 14 | 4420383   | Clear Tubing - 0.625" ID                             |     |      |
| 15 | 8503069   | Mounting - Rubber Grommet                            |     |      |
| 16 | 5573419   | Washer                                               |     |      |
| 17 | 5012309   | Compressor Mounting - Screw                          |     |      |
| 18 | 5650709   | Snap Clamp - 0.799"/0.899" ID                        |     |      |
| 19 | 5650529   | Clamp - Expansion Valve Bulb                         |     |      |
| 20 | 5202099   | Screw - #10-24 x 0.50" PHIL                          |     |      |
| 21 | 5202069   | Screw - #10-24 x 0.50" HEX                           |     |      |
| 22 | 6023541   | Dump Valve/Water Inlet Valve Mounting Bracket        |     |      |
| 23 | 2006143   | Terminal Block - 50 Hz - 3 Pole                      |     | [4]  |

# Q0420

## Q0420 - REFRIGERATION COMPARTMENT - COMMON COMPONENTS

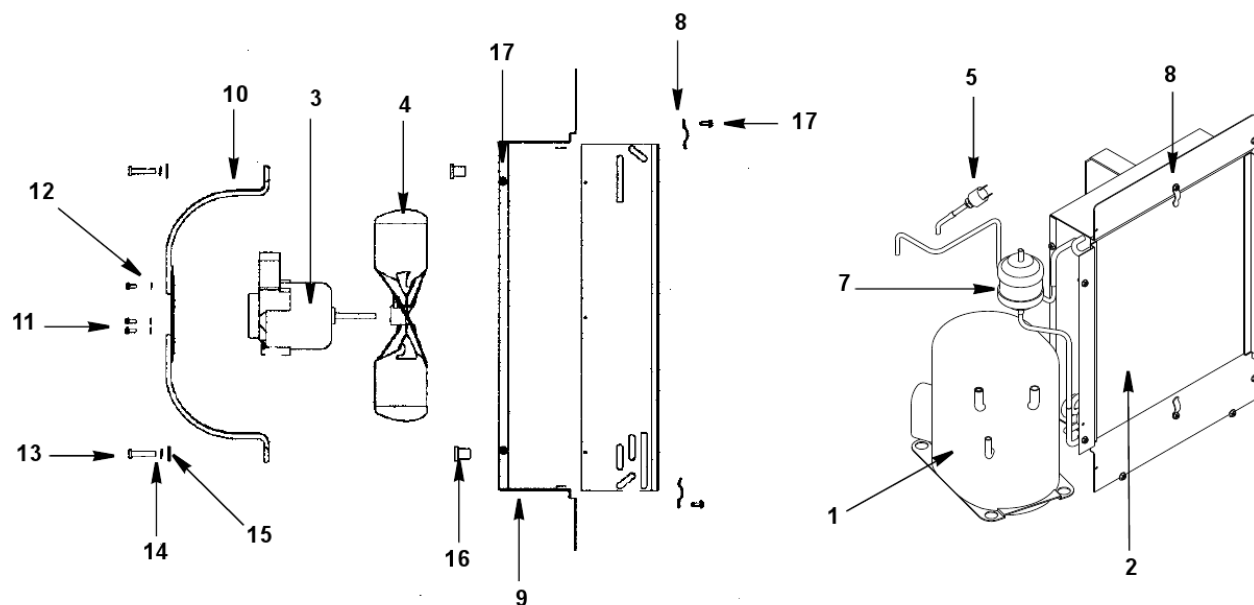
| # | PART # | DESCRIPTION | QTY | Note |
|---|--------|-------------|-----|------|
|---|--------|-------------|-----|------|

**PART NOTES:**

- [1] - \pages from 000005156\_02.jpg" width=280 height=256>
- [2] - \pages from 000005156\_02.jpg" width=266 height=183>
- [3] - \pages from 400720\_08.jpg" width=923 height=583>
- [4] - 50 Hz Only

# Q0420

## Q0420 - REFRIGERATION COMPARTMENT - AIR-COOLED COMPONENTS



# Q0420

## Q0420 - REFRIGERATION COMPARTMENT - AIR-COOLED COMPONENTS

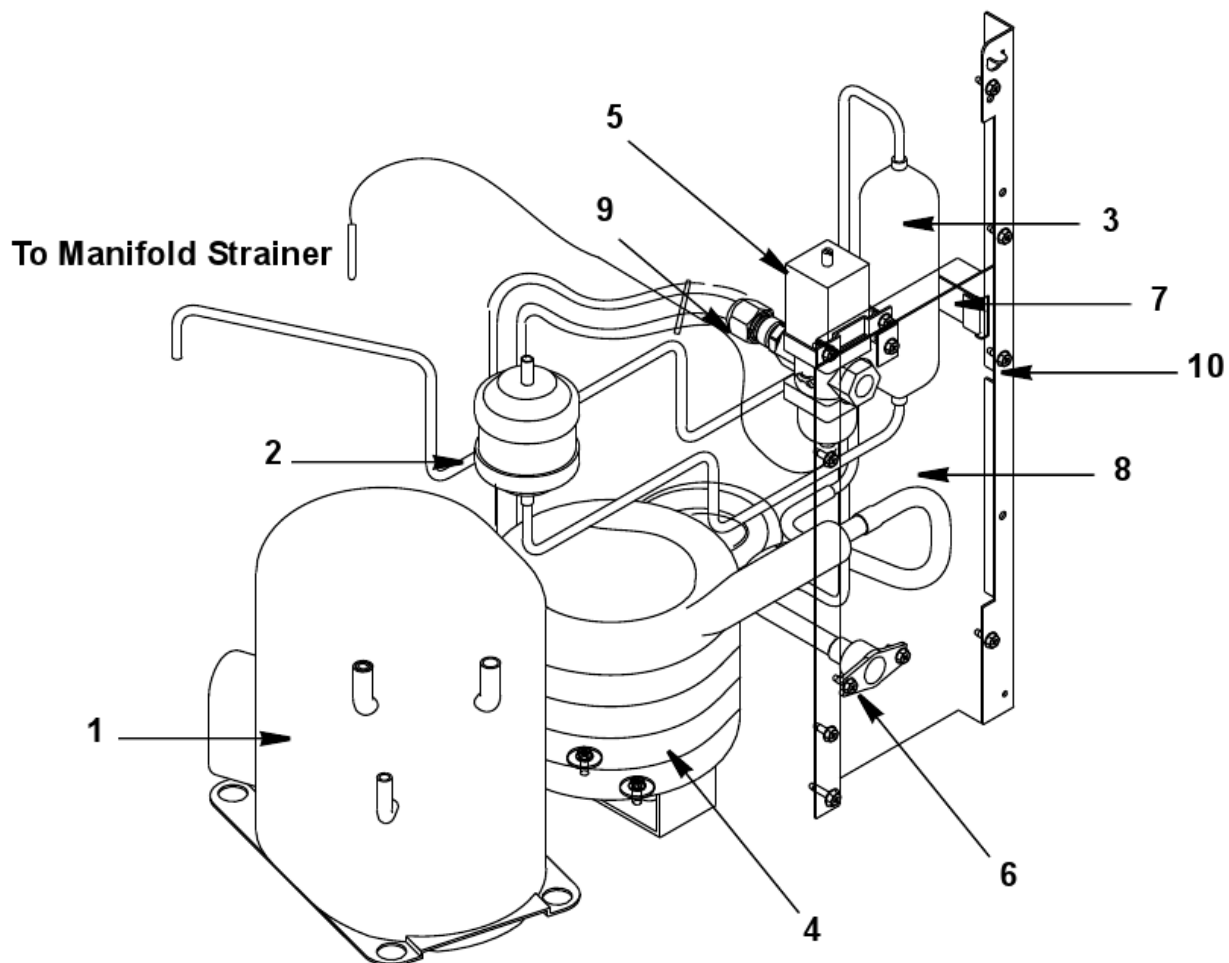
| #  | PART #  | DESCRIPTION                        | QTY | Note |
|----|---------|------------------------------------|-----|------|
| 1  |         | Compressor                         |     | [1]  |
| 2  | 8851243 | Air Condenser                      |     |      |
| 3  |         | Fan Motor                          |     |      |
| 3a | 2412929 | Fan Motor 115V/60 Hz/1 Ph          |     |      |
| 3b | 2412939 | Fan Motor 208-230V/50-60 Hz        |     |      |
| 4  | 2416203 | Fan Blade                          |     |      |
| 5  | 2001263 | Fan Cycling Control - 200-250 psig |     | [2]  |
| 6  | 4040233 | Air Filter                         |     |      |
| 7  | 8930259 | Drier                              |     |      |
| 8  | 5650699 | Air Filter Clip                    |     |      |
| 9  | 6061621 | Ice Restrictor Q291 Only           |     |      |
| 10 | 3406623 | Fan Motor Bracket                  |     |      |
| 11 | 5025599 | Screw - #8-36 x 0.375"             |     |      |
| 12 | 5504269 | Flatwasher #8                      |     |      |
| 13 | 5033589 | Mounting - Screw                   |     |      |
| 14 | 5545109 | Lockwasher                         |     |      |
| 15 | 5573059 | Mounting - Flatwasher              |     |      |
| 16 | 5429559 | Mounting - Rubber Wellnut          |     |      |
| 17 | 5202069 | Screw - #10-24 x 0.50" HEX         |     |      |

### PART NOTES:

- [1] - Refer to COMMON PARTS Page
- [2] - \pages from 200126\_09.jpg" width=150 height=306>

# Q0420

## Q0420 - REFRIGERATION COMPARTMENT - WATER-COOLED COMPONENTS



# Q0420

## Q0420 - REFRIGERATION COMPARTMENT - WATER-COOLED COMPONENTS

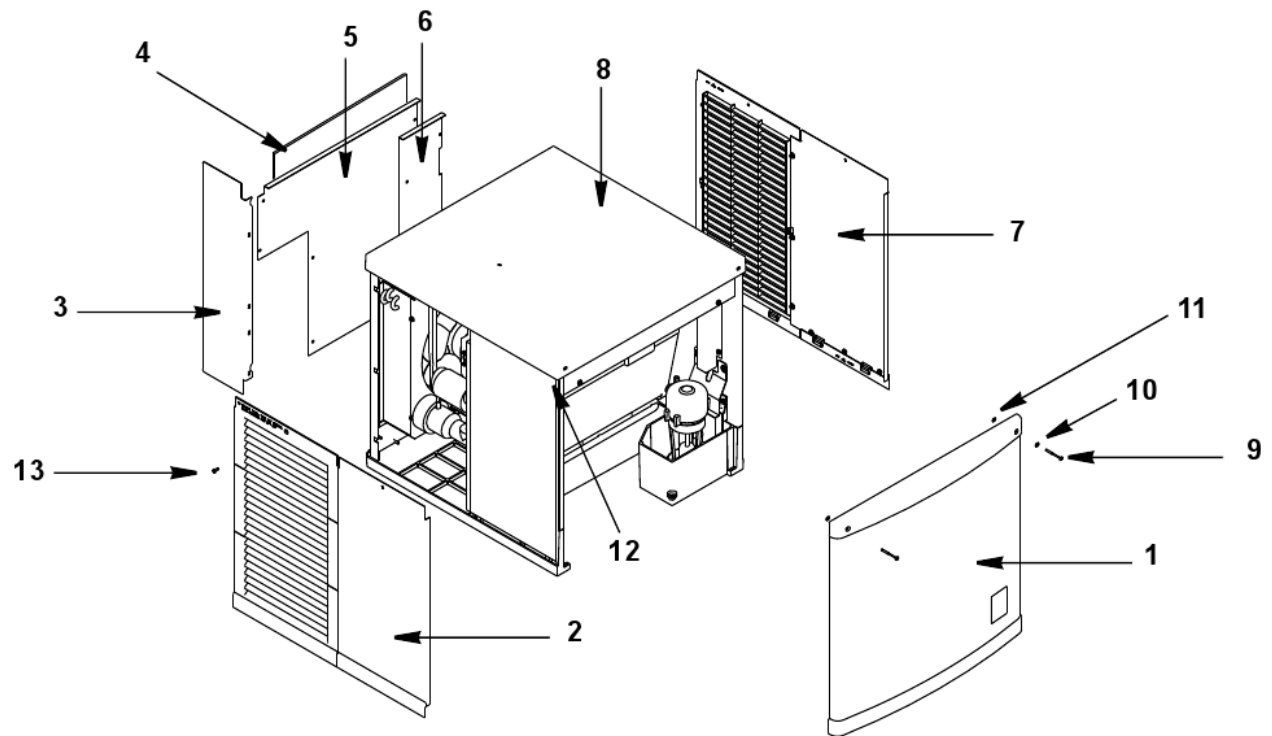
| #  | PART #    | DESCRIPTION                            | QTY | Note |
|----|-----------|----------------------------------------|-----|------|
| 1  |           | Compressor                             |     | [1]  |
| 2  | 8930259   | Drier                                  |     |      |
| 3  | 000008892 | Receiver                               |     |      |
| 4  | 8865323   | Water-Cooled Condenser                 |     |      |
| 5  | 8372069   | Water Regulating Valve                 |     |      |
| 6  | 8706083   | Female Wing Adapter - 0.50"            |     |      |
| 7  | 6000541   | Receiver Strap                         |     |      |
| 8  | 6023501   | Water-cooled Coupling Panel            |     |      |
| 9  | 8332023   | Water Coupling Connection - 0.375" NPT |     |      |
| 10 | 5202069   | Screw - #10-24 x 0.50" HEX             |     |      |

### PART NOTES:

[1] - Refer to COMMON PARTS Page

# Q0420

## Q0420 - PANELS



# Q0420

## Q0420 - PANELS

| #  | PART #  | DESCRIPTION                       | QTY | Note |
|----|---------|-----------------------------------|-----|------|
| 1  | 7628323 | Front Panel Assembly              |     |      |
| 2  | 7628333 | Left Side Panel                   |     |      |
| 3  | 6023751 | Air Baffle                        |     |      |
| 4  | 4040233 | Air Filter                        |     |      |
| 5  | 6025471 | Back Panel, Water                 |     |      |
| 6  | 6025461 | Back Panel, Air                   |     |      |
| 7  | 7628343 | Right Side Panel                  |     |      |
| 8  | 4302993 | Top Cover                         |     |      |
| 9  | 5119019 | Screw - #8 x 1.75"                |     | [1]  |
| 10 | 5573389 | Washer - Nylon 0.171" x 0.38"     |     | [1]  |
| 11 | 5648279 | Screw Retainer - Nylon #8         |     | [1]  |
| 12 | 5473049 | Speed Nut - U Type 0.50" x 0.576" |     | [1]  |
| 13 | 5202099 | Screw - #10-24 x 0.50" PHIL       |     |      |
| 14 | 9202509 | Extruded Tape                     |     |      |

### PART NOTES:

- [1] - Items 9, 10, 11 and 12 can be ordered as assembly 7628813.