



# ***Manitowoc***

## **Foodservice**

## **Parts Manual**

For more Parts Information:

<https://manitowocfsg.sysonline.com/Default.aspx>

# TABLE OF CONTENTS

Manitowoc Foodservice [Updated: Sep. 30, 2013]

Manitowoc - Ice & Related

Parts Catalog

Ice Machine

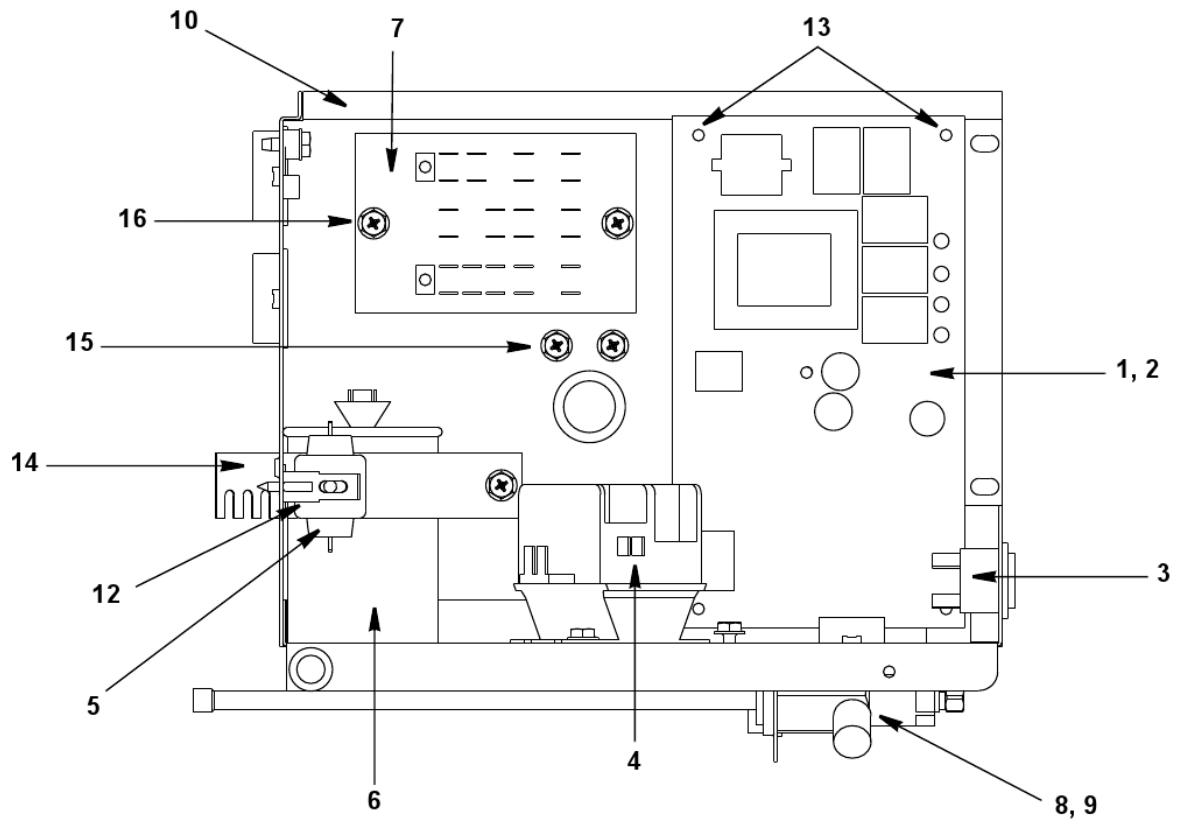
Q Series

Q Model - Air, Water & Remote

Q0450, JC0495

|                                                                   |    |
|-------------------------------------------------------------------|----|
| Q0450 - Control Box Components .....                              | 1  |
| Q0450 - Evaporator Compartment - Common Components .....          | 3  |
| Q0450 - Refrigeration Compartment - Common Components .....       | 5  |
| Q0450 - Refrigeration Compartment - Air-cooled Components .....   | 8  |
| Q0450 - Refrigeration Compartment - Water-cooled Components ..... | 10 |
| Q0450 - Refrigeration Compartment - Remote Components .....       | 12 |
| Q0450 - Panels .....                                              | 14 |
| JC0495 Remote Condenser Components .....                          | 16 |

## Q0450 - CONTROL BOX COMPONENTS



# Q0450, JC0495

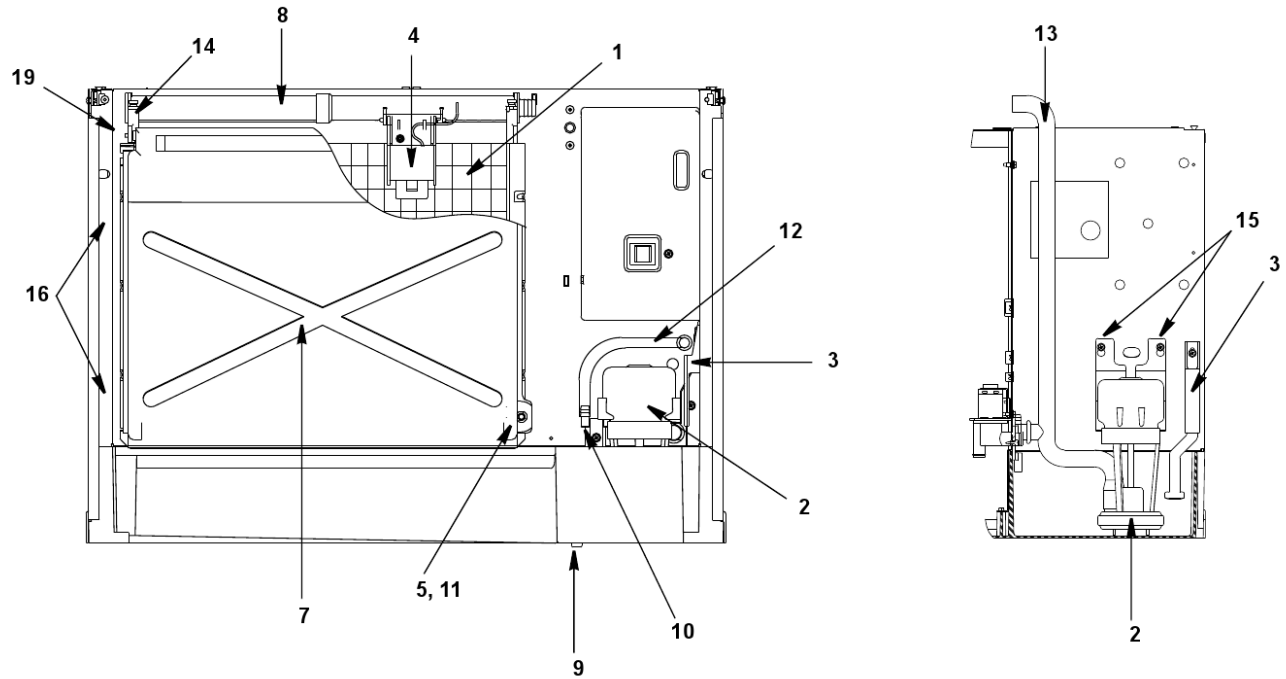
## Q0450 - CONTROL BOX COMPONENTS

| #  | 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  |         | Contactors                                 |     |      |
| 4a | 2006589 | Contactors - 115V/60 Hz/1 Ph               |     |      |
| 4b | 2006599 | Contactors - 230V/50-60 Hz/1 Ph            |     |      |
| 5  | 8505003 | PTCR Compressor Starter                    |     |      |
| 6  |         | Compressor Run Capacitor                   |     |      |
| 6a | 2010143 | Run Capacitor - 115V/60 Hz/1 Ph            |     |      |
| 6b | 8504003 | Run Capacitor - 208-230V/50-60 Hz/1 Ph     |     |      |
| 7  |         | Terminal Board with Wire Harness Attached  |     |      |
| 7a | 2032283 | Wiring Harness - 115V/60 Hz/1 Ph           |     |      |
| 7b | 2032293 | Wiring Harness - 230V/60 Hz/1 Ph           |     |      |
| 7c |         | Wiring Harness - 230V/50 Hz/1 Ph           |     | [1]  |
| 8  | 8373263 | Refrigeration Service Valve Assembly       |     |      |
| 9  | 5475039 | Locknut - 0.375" - 18 NPS                  |     |      |
| 10 | 6025593 | Control Box                                |     |      |
| 11 | 7628523 | Control Box Cover                          |     |      |
| 12 | 8505023 | PTCR Mounting Bracket                      |     |      |
| 13 | 4302253 | Control Board Mounting Supports            |     |      |
| 14 | 6024951 | Capacitor Bracket                          |     |      |
| 15 | 5202169 | Screw - #10-24 x 0.50" Ground              |     |      |
| 16 | 5202069 | Screw - #10-24 x 0.50" HEX                 |     |      |

### PART NOTES:

[1] - No Longer Available

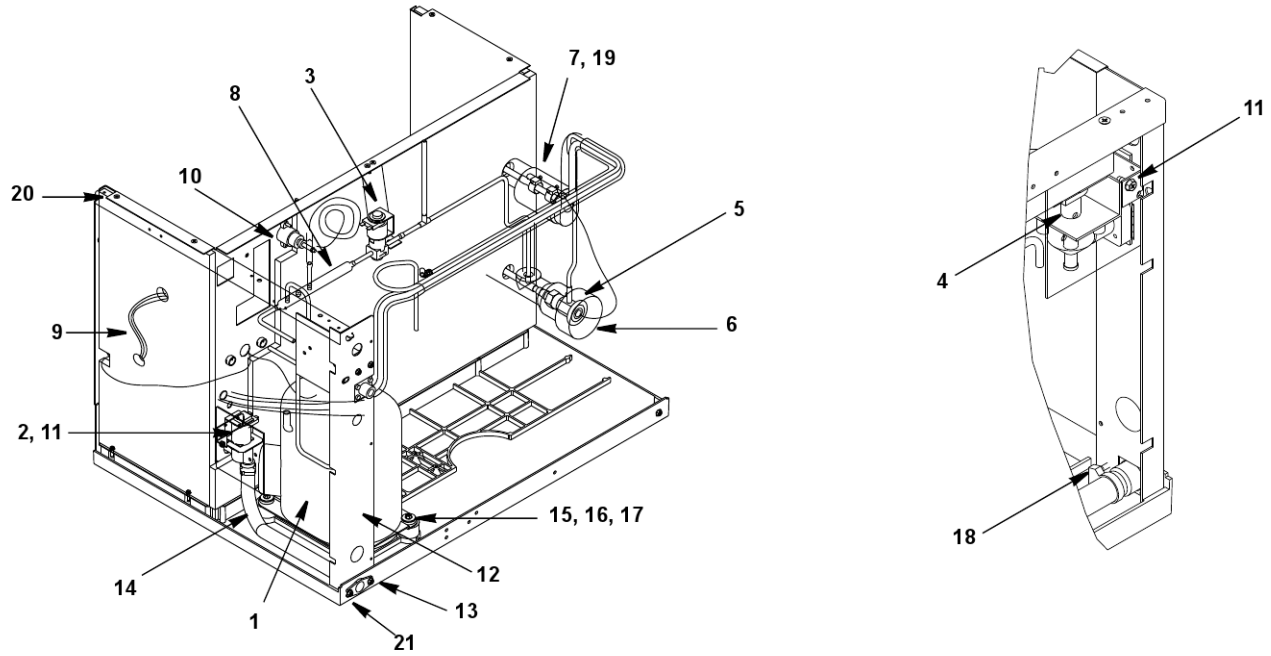
## Q0450 - EVAPORATOR COMPARTMENT - COMMON COMPONENTS



## Q0450 - 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  | 4304643 | Water Curtain                                     |     |      |
| 8  | 7624983 | Water Distribution Tube - B/J/Q                   |     |      |
| 9  | 4300629 | Water Trough Plug                                 |     |      |
| 10 | 4303883 | Water Inlet Flow Tube                             |     |      |
| 11 | 7628023 | Water Curtain Magnet and Cap                      |     |      |
| 12 | 4421113 | Water Inlet Tubing 0.375 ID                       |     |      |
| 13 | 4421093 | Water Pump Tubing                                 |     |      |
| 14 | 5000013 | Thumbscrew - #8-32 x 0.375"                       |     |      |
| 15 | 5202069 | Screw - #10-24 x 0.50" HEX                        |     |      |
| 16 | 5202189 | Screw - #10-24 x 0.75"                            |     |      |
| 17 | 7628063 | Base and Water Trough Repair Kit                  |     |      |
| 18 | 7626213 | Evaporator Top Molding and Gasket Assembly        |     |      |
| 19 | 7627763 | Water Curtain Pin Assembly                        |     |      |

## Q0450 - REFRIGERATION COMPARTMENT - COMMON COMPONENTS



## Q0450 - 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                      |     |      |
| 10a | 2355369   | High Pressure Cut-out Control                        |     | [4]  |
| 10b | 2001243   | High Pressure Cut-out Control                        |     | [5]  |
| 11  | 6023541   | Dump Valve/Water Inlet Valve Mounting Bracket        |     |      |
| 12  | 6019501   | 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  | 5202189   | Screw - #10-24 x 0.75"                               |     |      |
| 22  | 6023541   | Dump Valve/Water Inlet Valve Mounting Bracket        |     |      |
| 23  | 2006143   | Terminal Block - 50 Hz - 3 Pole                      |     | [6]  |

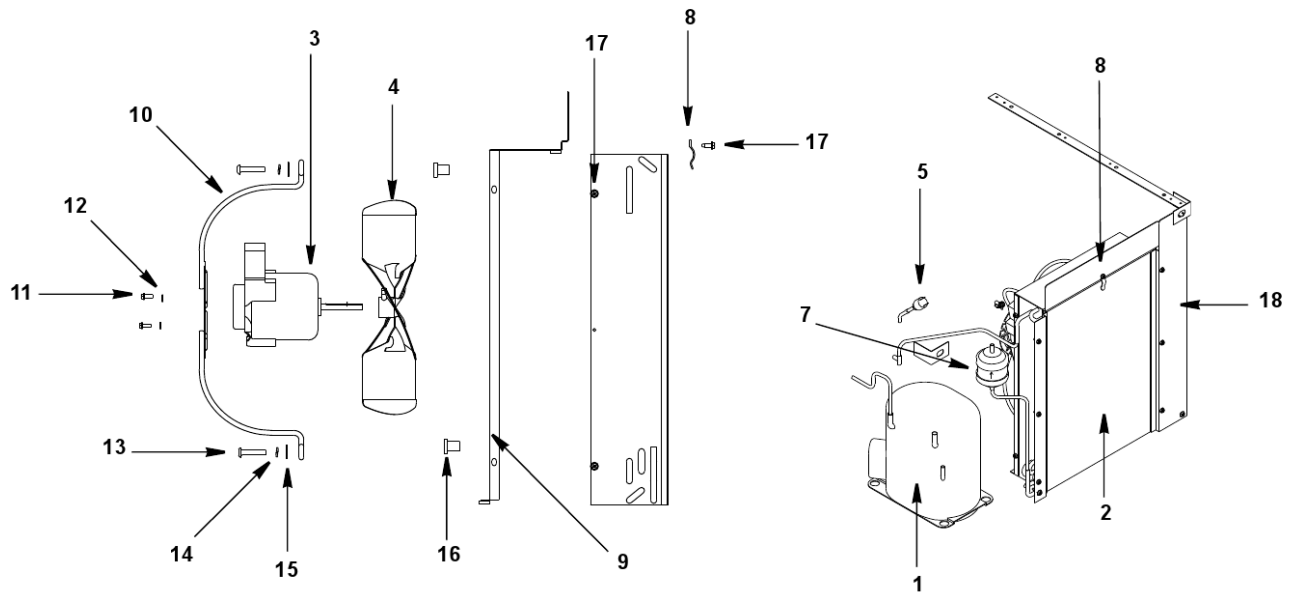
## Q0450 - REFRIGERATION COMPARTMENT - COMMON COMPONENTS

| # | 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] - Manual Reset
- [5] - Auto Reset
- [6] - 50 Hz Only

## Q0450 - REFRIGERATION COMPARTMENT - AIR-COOLED COMPONENTS



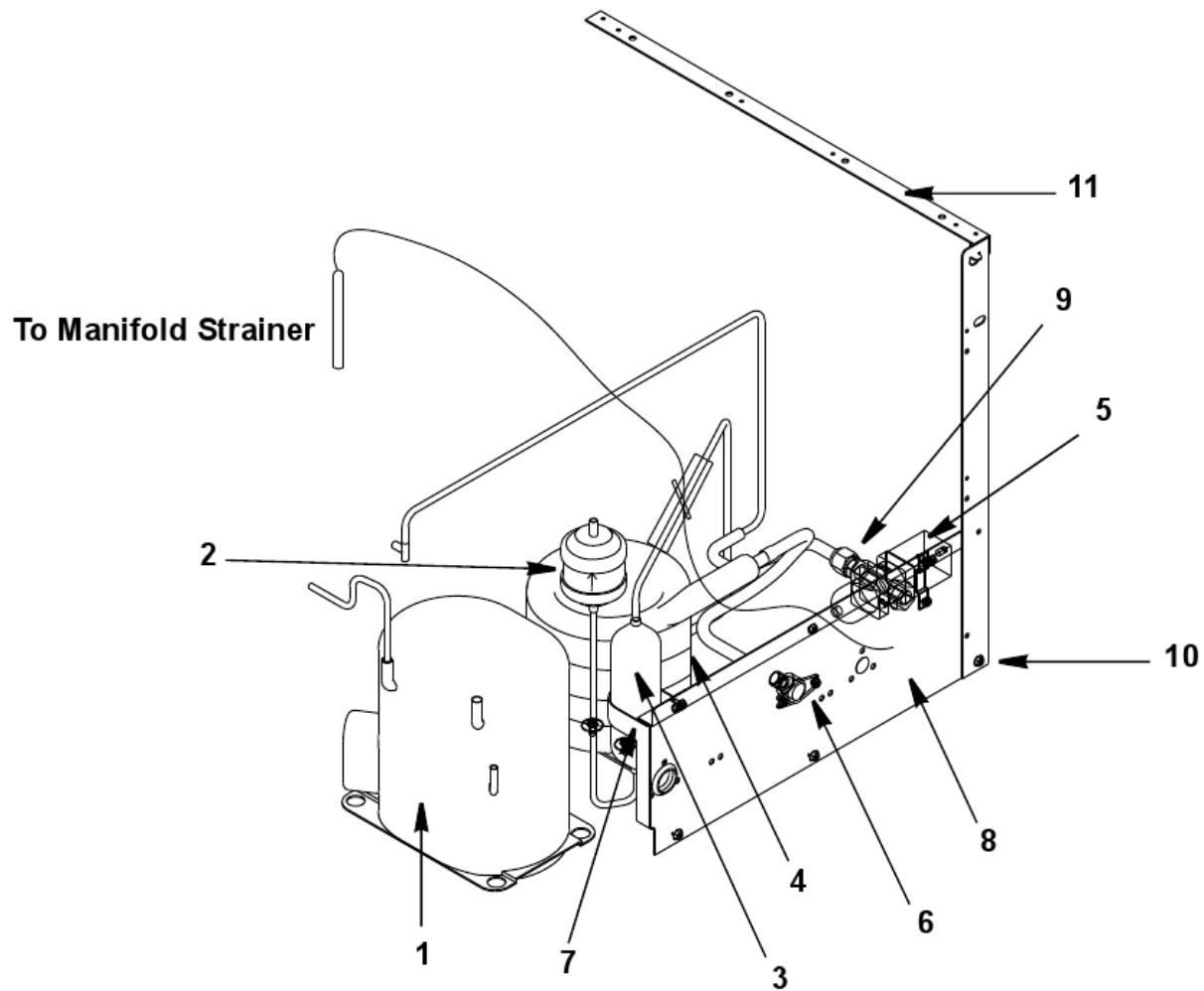
## Q0450 - REFRIGERATION COMPARTMENT - AIR-COOLED COMPONENTS

| #  | 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  | 4040163 | Air Filter                         |     |      |
| 7  | 8930259 | Drier                              |     |      |
| 8  | 5650699 | Air Filter Clip                    |     |      |
| 9  | 6018791 | Fan Shroud                         |     |      |
| 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         |     |      |
| 18 | 6021681 | Left Corner Post Weldment          |     |      |

### PART NOTES:

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

## Q0450 - REFRIGERATION COMPARTMENT - WATER-COOLED COMPONENTS



# Q0450, JC0495

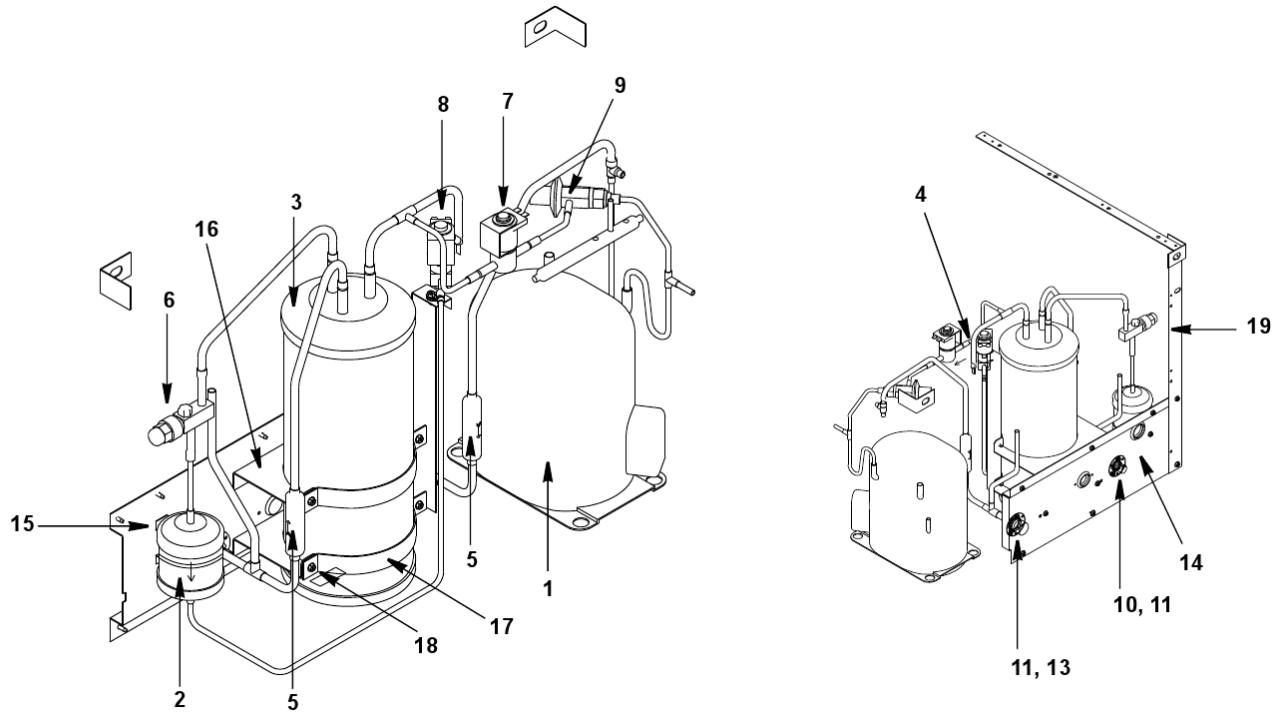
## Q0450 - REFRIGERATION COMPARTMENT - WATER-COOLED COMPONENTS

| #  | 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  | 6019061   | Back Panel                  |     |      |
| 9  | 8332033   | Water Coupling              |     |      |
| 10 | 5202069   | Screw - #10-24 x 0.50" HEX  |     |      |
| 11 | 6019511   | Left Corner Post Weldment   |     |      |

### PART NOTES:

[1] - Refer to COMMON PARTS Page

## Q0450 - REFRIGERATION COMPARTMENT - REMOTE COMPONENTS



## Q0450 - REFRIGERATION COMPARTMENT - REMOTE COMPONENTS

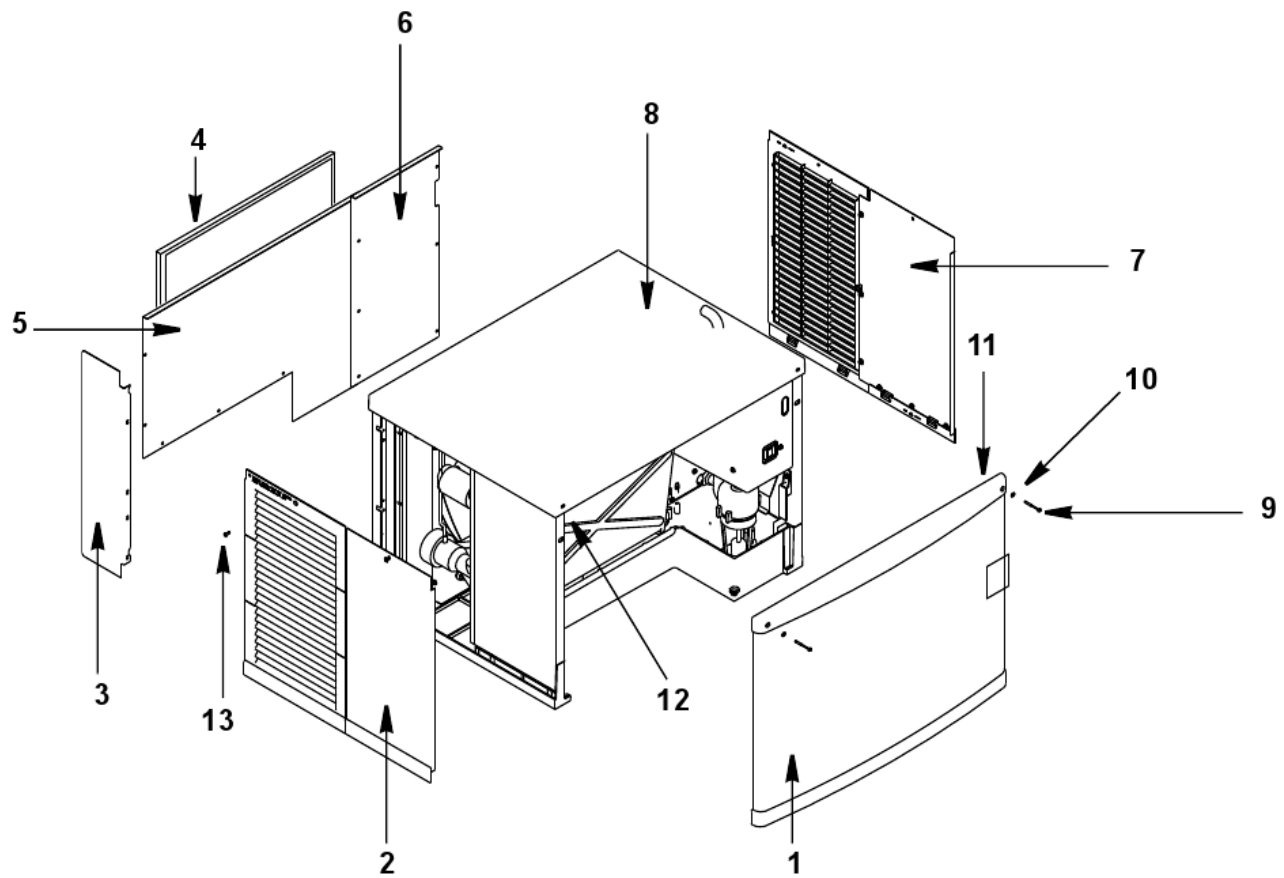
| #  | PART #    | DESCRIPTION                                              | QTY | Note |
|----|-----------|----------------------------------------------------------|-----|------|
| 1  |           | Compressor                                               |     | [1]  |
| 2  | 8930279   | Drier                                                    |     |      |
| 3  | 7629573   | Receiver                                                 |     |      |
| 4  |           | Safety Soft Plug                                         |     | [2]  |
| 5  | 8373149   | Magni-Check Valve - 0.375"                               |     |      |
| 6  | 8373169   | Receiver Service Valve                                   |     |      |
| 6a | 5650753   | Caps for Refrigeration Service Valve                     |     |      |
| 7  |           | Harvest Pressure Regulating Solenoid Valve               |     |      |
| 7a | 7630001   | Danfoss Solenoid Valve with Electrical Coil - 115V/60 Hz |     |      |
| 7b | 000005156 | Danfoss Solenoid Valve Coil Only - 115V/60 Hz            |     | [3]  |
| 7c | 2404363   | Alco Solenoid Valve Coil Only - 115V/60 Hz               |     |      |
| 8  |           | Liquid Line Solenoid Valve                               |     |      |
| 8a | 7630021   | Danfoss Solenoid Valve 115V                              |     |      |
| 8b | 000005156 | Danfoss Solenoid Valve Coil Only - 115V/60 Hz            |     | [3]  |
| 8c | 2404363   | Alco Solenoid Valve Coil Only - 115V/60 Hz               |     |      |
| 9  | 8367793   | Harvest Pressure Regulating Valve                        |     |      |
| 10 | 8360343   | Coupling - Male - 5/8-18                                 |     |      |
| 11 | 8360353   | Coupling - Male - 1-1/6-12                               |     |      |
| 12 | 8360053   | Coupling Mounting Flange for 5/8-18                      |     |      |
| 13 | 8360063   | Coupling Mounting Flange for 1-1/16-12                   |     |      |
| 14 | 6019061   | Back Panel                                               |     |      |
| 15 | 6017371   | Drier Support Bracket                                    |     |      |
| 16 | 6000561   | Receiver Mounting Bracket                                |     |      |
| 17 | 6307214   | Receiver Mounting Strap                                  |     |      |
| 18 | 5202069   | Screw - #10-24 x 0.50" HEX                               |     |      |
| 19 | 6019511   | Left Corner Post Weldment                                |     |      |

### PART NOTES:

- [1] - Refer to COMMON Parts
- [2] - No Longer Available
- [3] - \pages from 000005156\_02.jpg" width=280 height=256>

# Q0450, JC0495

## Q0450 - PANELS



# Q0450, JC0495

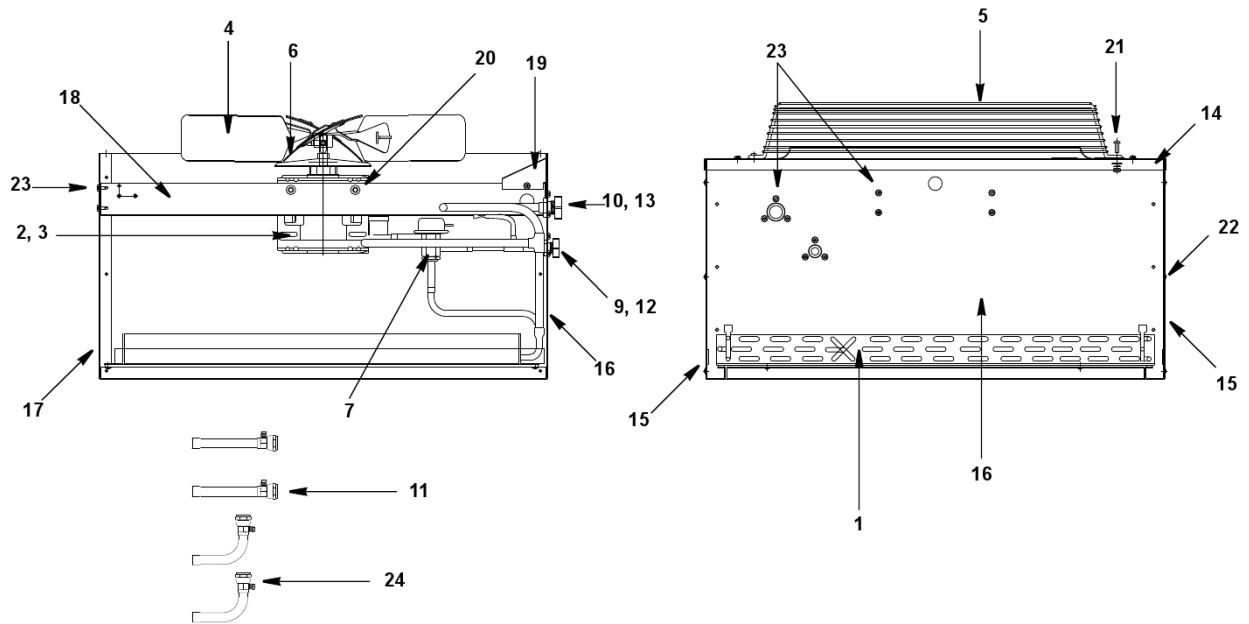
## Q0450 - PANELS

| #  | PART #  | DESCRIPTION                             | QTY | Note |
|----|---------|-----------------------------------------|-----|------|
| 1  | 7628533 | Front Panel Assembly                    |     |      |
| 2  | 7628303 | Left Side Panel                         |     |      |
| 3  | 6023631 | Air Baffle                              |     |      |
| 4  | 4040163 | Air Filter                              |     |      |
| 5  | 6019981 | Back Panel                              |     |      |
| 6  | 6019971 | Back Panel, Air                         |     |      |
| 7  | 7628313 | Right Side Panel                        |     |      |
| 8  | 4303313 | 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 | 5473039 | Speed Nut Assembly to Mount Front Cover |     | [1]  |
| 13 | 5202099 | Screw - #10-24 x 0.50" PHIL             |     |      |
| 14 | 9202509 | Extruded Tape                           |     |      |
| 15 | 6580419 | Front Top Support                       |     |      |

### PART NOTES:

- [1] - Items 9, 10, 11 and 12 can be ordered as assembly 7628983.

## JC0495 REMOTE CONDENSER COMPONENTS



## JC0495 REMOTE CONDENSER COMPONENTS

| #   | PART #    | DESCRIPTION                                 | QTY | Note |
|-----|-----------|---------------------------------------------|-----|------|
| 1   | 8850639   | Air Condenser                               |     |      |
| 2   | 7629423   | Fan Motor - 115V/60 Hz/1 Ph                 |     |      |
| 3   |           | Fan Motor Run Capacitor                     |     | [1]  |
| 4   | 2416113   | Fan Blade                                   |     |      |
| 5   | 3400643   | Fan Guard                                   |     |      |
| 6   | 2415053   | Rain Slinger                                |     |      |
| 7   | 000004070 | Head Pressure Control Valve                 |     |      |
| 8   | 000008040 | Terminal Block - 3 Pole                     |     |      |
| 9   | 8360343   | Coupling - Male - 5/8-18                    |     |      |
| 10  | 8360353   | Coupling - Male - 1-1/6-12                  |     |      |
| 11  | K0129     | Female Line Set Coupling Kit                |     |      |
| 12  | 8360053   | Coupling Mounting Flange for 5/8-18         |     |      |
| 13  | 8360063   | Coupling Mounting Flange for 1-1/16-12      |     |      |
| 14  | 6017751   | Top Cover                                   |     |      |
| 15  | 6017741   | Panel - Side                                |     |      |
| 16  | 6017731   | Panel - Rear                                |     |      |
| 17  | 6017721   | Panel - Front                               |     |      |
| 18  | 6017681   | Fan Motor Mounting Bracket                  |     |      |
| 19  | 6017761   | Electrical Box Cover                        |     |      |
| 20  | 5035659   | Fan Motor Mounting Screw                    |     |      |
| 20a | 5573099   | Mounting - Flatwasher                       |     |      |
| 20b | 5573139   | Mounting - Lockwasher                       |     |      |
| 20c | 5429759   | Mounting - Hexnut                           |     |      |
| 21  | 5033459   | Screw - 1/4-20 x 0.625"                     |     |      |
| 21a | 5573049   | Flatwasher                                  |     |      |
| 21b | 5545119   | Mounting - Lockwasher                       |     |      |
| 21c | 5429529   | Mounting - Hexnut                           |     |      |
| 22  | 5121539   | Panel/Condenser Mounting Screw - #8 x 0.50" |     |      |
| 22a | 5544599   | Panel/Condenser Mounting Lockwasher         |     |      |
| 23  | 5202069   | Screw - #10-24 x 0.50" HEX                  |     |      |
| 24  | 7626843   | Valve Cores                                 |     |      |
| 25  | 6017691   | Legs                                        |     |      |

## PART NOTES:

[1] - No Longer Available