Flower Merchant / Wall of Color
Installation and Service Guide

Self-Contained and Remote Refrigerated Floral Cases

Floratech
Floratech® is a division of Air Innovations, a leader in niche market environmental control since 1983.

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# Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>1</td>
</tr>
<tr>
<td>Receiving and Inspecting Shipments</td>
<td>2</td>
</tr>
<tr>
<td>Uncrating and Set-Up</td>
<td>3</td>
</tr>
<tr>
<td>General Descriptions</td>
<td>4</td>
</tr>
<tr>
<td>Wall of Color Merchandising System</td>
<td>6</td>
</tr>
<tr>
<td>In-Store Location</td>
<td>7</td>
</tr>
<tr>
<td>Electrical Connections and Start-Up</td>
<td>8</td>
</tr>
<tr>
<td>Cleaning and Maintenance — General Comments</td>
<td>9</td>
</tr>
<tr>
<td>Cleaning and Maintenance — Display Case and Evaporator Filter</td>
<td>10</td>
</tr>
<tr>
<td>Cleaning and Maintenance — Condenser and Filter</td>
<td>11</td>
</tr>
<tr>
<td>Cleaning and Maintenance — Evaporator Section</td>
<td>12</td>
</tr>
<tr>
<td>Cleaning and Maintenance — Dissipater Pan with Heater and Float (if present)</td>
<td>13</td>
</tr>
<tr>
<td>Operating Specifications Wall of Color (Self Contained)</td>
<td>14</td>
</tr>
<tr>
<td>Operating Specifications Wall of Color (Remote)</td>
<td>16</td>
</tr>
<tr>
<td>Operating Specifications (Abbreviations)</td>
<td>19</td>
</tr>
<tr>
<td>Troubleshooting Guide</td>
<td>20</td>
</tr>
<tr>
<td>Wiring Diagram Self-Contained</td>
<td>23</td>
</tr>
<tr>
<td>Wiring Diagram Remote</td>
<td>24</td>
</tr>
<tr>
<td>Warranty Procedure</td>
<td>25</td>
</tr>
<tr>
<td>Warranty</td>
<td>26</td>
</tr>
</tbody>
</table>
Introduction

Congratulations on the purchase of your new Floratech display! You have selected the industry’s most advanced, state-of-the-art refrigerated floral merchandising unit that has been designed to keep your flower arrangements fresh and draw shoppers to your products for many years to come.

Each Floratech unit has also been engineered and manufactured to deliver long-term refrigeration and mechanical performance. So as with any new piece of equipment, it is important that you understand the various aspects of its installation, filter maintenance and cleaning procedures.

This Installation and Service Guide has been arranged to help you easily find all the information you need for your specific unit. It summarizes the important information and assembly hints that will help get you started. If you are viewing this guide electronically, you may navigate through the pdf document by simply clicking on the desired sections in the table of contents.

By following all the maintenance procedures found in this guide, you (and your customers) will be rewarded with years of dependable, trouble-free service from your new Floratech unit.

Please read these instructions thoroughly.

And from all of us here at Floratech... thank you.
Receiving and Inspecting Shipments

Each Floratech unit undergoes a series of rigorous Pre-Ship Inspection Points prior to leaving our manufacturing facility. Once the unit has successfully passed this inspection process, it is carefully loaded on the carrier’s transport vehicle.

From this point, the transportation company is wholly responsible for the unit’s shipment — from the time it is received by them until it is delivered to you.

What you should do when your Floratech unit arrives...

1. Carefully inspect the entire unit. Take the time to walk around the unit to look for any exterior damage that may have occurred during shipment. Look closely at all the corners of the unit for any signs of it being dropped.

2. If a shipment should arrive with the crating or packaging damaged, this could signal further damage inside. First, immediately have the driver note the exterior condition on the bill of lading. (Digital photographs of the damage taken at this point will be helpful.)

3. Next, remove the crating and packaging and inspect the contents for any concealed damage. (Again, digital photographs of any damage taken at this point will be helpful.)

4. If it is clear that the unit has been damaged in transit, immediately notify and file a claim with the carrier. Do not return the shipment to Floratech. If this procedure is not followed, the carrier may reject the claim and the consignee may suffer the loss.
To uncrate your Floratech display:

1. Carefully remove any shipping straps, outer wrapping or crating materials and recycle accordingly.

   **IMPORTANT NOTE:** Depending on the model, the unit will be mounted on either casters or feet and the crating is designed to protect them during shipment.

2. Remove unit from the shipping skid using a fork truck. Position the forks carefully to prevent any damage to the casters, feet or other components on the bottom of the unit.

3. Move unit into place as outlined on page 7 “In-Store Location.”

4. Make condensate drain connection, if applicable, as follows:

   **Model Type: Self-Contained without Dissipater Pan**
   - Connect the 1” ID tubing to a floor drain by following local and national codes accordingly.
   - Select material such that kinking can’t occur when rolling unit for cleaning and maintenance.
   - Level or pitch drain line toward floor drain.
   - DO NOT add external trap. Unit provided with internal trap.

   **Model Type: Remote Condensing Unit**
   - Remove shipping bracket supporting P-trap tubing (if supplied).
   - Connect the 1” ID P-trap tubing to a floor drain by following local and national codes accordingly.
   - Provide a means to access during cleaning and maintenance.
   - Level or pitch drain line toward floor drain.
   - DO NOT add external trap. Unit provided with internal trap.

5. Continue with section “Electrical Connections and Start-Up.”
General Descriptions

The Wall of Color model is available in:
- Two (2) refrigeration systems: Self-Contained and Remote
- Refrigerants: R404A, (Glycol available for Remote model only)

Self-Contained Refrigeration System

Easily movable on its built-in casters, Floratech Self-Contained units require no external refrigeration connections. Each unit has a compressor and condenser. The singlewide models are designated as 248, 260 or 272 and have one complete refrigeration/electrical system. The doublewide models are designated as 296, 2120 and 2144 and have two completely separate refrigeration/electrical systems.

The units are 208/230 Volt, 1-Phase, 60-Hertz and fitted with a 4-wire cord connected NEMA 14-30P plug. The electrical system must be connected to an independent and dedicated 30 Amp NEMA 14-30R receptacle. Therefore, use one (1) double-pole circuit for singlewide models and two (2) double-pole circuits for doublewide models.

Under normal conditions, the air temperature leaving the evaporator coil will be approximately 35°F to 40°F below store ambient temperature. Each Floratech unit is thermostatically controlled and has an air cycle defrost initiated by the thermostat. During defrost, the compressor and condenser fans stop and the evaporator fans continue to operate.

Depending on the Floratech model, condensate water is either automatically evaporated by a 1500 Watt dissipater pan or will require installation to a floor drain.

Floratech Wall of Color units use environmentally sensitive refrigerant HFC-R404A.

Remote Refrigeration System

A Floratech Remote unit requires on-site installation of a condensing unit (compressor and condenser). The unit is stationary and has feet, not casters. Specifics for sizing this equipment are found under Specifications on Page 16. To gain access to the refrigeration connections, remove the lower flower shelf or the rear panel behind the unit. Once in place, access to rear of unit will be difficult due to refrigerant piping.

The units are 115 Volt, 1-Phase, and 60-Hertz. Each electrical system must be connected to an independent and dedicated 15 Amp receptacle. Therefore, use one (1) single-pole circuit for singlewide models and two (2) single-pole circuits for doublewide models.
Selection of a condensing unit should produce air temperature leaving the evaporator coil at approximately 33°F. The unit is thermostatically controlled to operate a liquid line solenoid valve. No defrost is supplied, therefore we recommend an off cycle of 20 minutes every 6 hours.

Floratech Wall of Color units use environmentally sensitive refrigerant HFC-R404A.

Evaporator Airflow

All models feature Floratech’s patented “Boundary Layer” airflow technology. This air directly cools vases and gently envelops flowers. Air enters at the bottom front grille and exits out perforated holes throughout the entire case.

Condenser Airflow

Condenser air enters from the floor. It exits by flowing upward and dissipating out through the top on an angled grille located in the back of the unit.

Condensate Removal

Dissipater Pan: No field connections are required. A dissipater pan housing a heater/float combination automatically evaporates condensate water. See Cleaning and Maintenance — Dissipater Pan schedule for optimal operation.

Floor Drain Option: An interconnecting line must be connected from the outlet of the drain in the floral case to the customer’s floor drain (typically found with remote condensing systems). A drain line must be installed if there is no dissipater pan.
Floratech’s Wall of Color has integrated a variety of adjustable shelf features to suit your specific floral merchandising needs. The adjustment and use of these features — Pivoting Shelves, Scalloped Shelves and Adjustable Brackets — are as follows:

**Pivoting Shelves:** These adjustable shelves can be set at 0° (flat), 10°, 20° or 30° to tilt the flowers forward (see Figure A). To adjust, pull the locking Clevis Pin (see Figure B) that is holding the shelf to the bracket, adjust to desired angle and reinsert the Clevis Pin into the appropriate hole to lock.

**NOTE:** When using the optional vase hole cover, we recommend using only the flat 0° setting to prevent objects from falling off.

**Adjustable Brackets:** These brackets (see Figure A) will allow you to change the vertical height between the shelves. To adjust, reposition the brackets on the vertical support to the desired height. Standard units include 3 shelves. Additional shelves are available as an option.

**Scalloped Shelves:** These shelves permit vases to be re-arranged or removed depending on your specific merchandising needs (see Figure C). Standard vases are 9”w x 10”h. Optional, deeper vases are 9”w x 16”h and will accommodate longer stemmed flowers. Grower Bucket style shelves are also available as an option.
In-Store Location

Aside from positioning your Floratech unit in a high-traffic and high-visibility location to increase sales, it’s important that the unit meets the following mechanical requirements.

1. Place the unit in an area where ambient temperature is 65°F to 75°F and the relative humidity does not exceed 50%.

2. To provide sufficient space around the unit for proper operation, anything placed on the left or right side of the unit must allow a 4” floor clearance for air movement. Blocking this airflow could cause poor cooling, lower efficiency and damage to the compressor.

3. Make sure that the location for the unit is level to insure proper condensate drainage.

   **IMPORTANT NOTE:** Conditions outside these parameters will impede performance.

4. Continue with instructions on page 8 “Electrical Connections and Start-Up.”
Electrical Connections and Start-Up

Before proceeding, check to ensure that the ON/OFF switch is in the OFF position. It is located on either the right-hand sidewall under the middle tier flower deck or attached to right-hand rear wall (see Figure A).

1. Connect plugs on Self-Contained units to dedicated double-pole circuits each consisting of 208/230 Volt, 1-Phase, 60-Hertz power. Remote models use only 115V single-pole circuits but require field wiring to the terminal strip inside electrical box. Voltage to the unit should fall between 188-228V for 208V circuits and 207-253V for 230V circuits or damage to the compressor can occur. (Remote units require 104-126V.) For Self-Contained units, use 30 Amp NEMA 14-30R receptacle(s). For Remote units use 15 Amp NEMA 14-15R receptacle(s).

2. Start the unit by moving the power switch to the ON position.

3. The Evaporator Fan, Condenser Fan and Compressor will start.

4. Thermostat is factory set so no field adjustments are required, under normal operating conditions. (Refer to page 14 “Operating Specifications,” if necessary.)

   NOTE: A Secondary Temperature Sensor, which senses the Evaporator Coil temperature, will automatically initiate defrost.

6. Measure supply air temperature after running unit for 15–20 minutes. Supply air temperature should fall between thermostat settings, typically 35°F to 45°F. (Refer to page 20 “Troubleshooting,” if necessary.)

7. Check for leaks and proper drainage of condensate system by pouring 1 quart of water into the evaporator drain pan (for access, see page 12 “Cleaning and Maintenance”). Using a wet vacuum, remove water from dissipater pan as it may not boil off fast enough before new condensate appears.

   IMPORTANT NOTE: If test water isn’t removed before startup, spillage may occur because heater hasn’t reached operating temperature and therefore can’t boil off water fast enough. (Refer to page 20 “Troubleshooting,” if necessary.)

8. Turn light switch ON if applicable (see Figure A). It’s located either on the top/middle of the fixture or next to power switch.
Cleaning and Maintenance —
General Comments

Keeping your Floratech unit operating efficiently will require simple, scheduled maintenance tasks to be performed regularly. We recommend that you establish a simplified, two-level cleaning schedule for your unit as follows:

- **Schedule A: Weekly** — Exterior Cleaning and Filter Inspection
- **Schedule B: Quarterly** — Condenser / Evaporator Coils, Drain Pan and Dissipater Pan

To avoid the expense of unnecessary service calls (cleaning and maintenance are not covered under the warranty), refer to the appropriate section for the tasks listed below and make sure that these maintenance tasks have been performed.

- **Exterior Cleaning and Filter Inspection:** Page 10 1 to 7 days
- **Condenser Section (Warm Compartment):** Page 11 1 to 3 months
- **Evaporator Section (Cool Compartment):** Page 12 1 to 3 months
- **Dissipater Pan with Heater and Float:** Page 13 1 to 3 months

All cleaning frequencies are approximate. Specific intervals depend on your unit’s specific application and environment. We recommend checking for cleanliness during the earliest interval and clean as necessary. Longer cleaning and maintenance intervals may require spending more time to perform individual tasks.

Creating and following your specific schedule will save both time and money for you and your customers.

**SPECIAL NOTE:** If Water Appears On Floor —
- Check for spilled water during flower removal or addition,
- Check for or clear clogged drain or line,
- Check for or replace blown heater fuse,
- Check for or clear stuck float or obstruction,
- If problem still exists, call for service.

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9
Cleaning and Maintenance — Display Case & Evaporator Filter

Schedule A: Weekly — Exterior Cleaning and Filter Inspection

Proper maintenance maximizes cooling and condensate drainage by preventing debris from clogging drain or acting like insulation. Presenting “eye-catching” clean, tidy and full displays increases potential sales.

1. TURN UNIT OFF. This prevents loose particles from being blown around.
2. Remove the vases being careful not to spill any water. This is an ideal time to clean and sanitize vases.
3. NEVER pour water into a vase hole (see Figure A).
4. Vacuum first, then wipe the deck and all external surfaces, including mirrored acrylic panels, with a soft cloth dampened with mild soapy water (see Figure B). DO NOT use strong alkali solutions, abrasive cleaners or spray-type cleaners.
5. Wipe up any spillage.
6. Make a visual inspection of the Evaporator filter located along the bottom front of the unit. To access the Evaporator filter, reach inside of front wall and gently pull up on the handles provided (see Figure C). When the wall has reached its maximum height, gently pull the wall toward you and allow it to come to rest (see Figure D). If dust and particles have accumulated on it, remove it (see Figure E) and wash in a mild soap solution, allow to dry and replace.
8. TURN UNIT ON.
Cleaning and Maintenance —
Condenser & Filter
(Warm Compartment) 1 to 3 months

Schedule B: Quarterly — Condenser / Evaporator Coils, Drain Pan and Dissipater Pan

Perform in conjunction with
- Cleaning and Maintenance — Evaporator and Drain Pan
- Cleaning and Maintenance — Dissipater Pan

Proper maintenance maximizes cooling and minimizes electrical usage by preventing debris buildup on the unit’s coil, which will act like insulation. This insulation “blanket” increases system pressures and temperatures that reduce compressor efficiency. Costly compressor repairs can occur from neglect.

1. TURN UNIT OFF and UNPLUG (if possible). This prevents loose particles from being blown around.
2. Unscrew and remove access panels on backside of unit (see Figure A).
3. Remove filter media from face of condenser, wash in a mild soap solution and allow to dry (see Figure B).
4. Clean the entire coil face using a wet/dry vacuum and brush (see Figure C).

   **NOTE:** Be careful around sharp edges of panels and coil fins. Do not use scrapers, screwdrivers, etc., to clean the coil face or coil damage could result.

5. Clean surrounding area and intake grill as well. Left unattended, lint and dust build-up becomes airborne causing coil to become dirty sooner than expected.
6. Reset pressure switch, if necessary (see Figure D).
7. Replace filter media to face of condenser
8. Replace rear access panel(s) and fasten securely with screws.
9. PLUG UNIT IN (if applicable) and TURN ON.
Cleaning and Maintenance —
Evaporator Section
(Cool Compartment) 1 to 3 months

Proper maintenance maximizes cooling and condensate drainage by preventing debris from acting like insulation or clogging drain. This insulation “blanket” reduces airflow and heat transfer efficiency. Under severe conditions, excessive ice formation could cause water leaks when thawed.

Perform in conjunction with
Cleaning and Maintenance — Dissipater Pan
Cleaning and Maintenance — Condenser

1. TURN UNIT OFF and UNPLUG (if possible). This prevents loose particles from being blown around.
2. Remove vases from the bottom step only, being careful not to spill any water.
3. To access the Evaporator Section, reach inside of front wall and gently pull up on the handles provided (see Figure A). When the wall has reached its maximum height, gently pull the wall toward you and allow it to come to rest.
4. Clean the entire coil face and its surrounding area using a wet/dry vacuum and brush (see Figure B). Be careful around sharp edges of sheet metal and coil fins. Do not use scrapers, screwdrivers, etc., or coil damage could result.
5. Clean out the drain opening and the drain pan (see Figure C).
6. Flush drain pan and hose with a small amount of fresh water. Be careful not to overflow the dissipater pan located in condenser compartment (if present).
7. Wipe the pan with a soft cloth to remove any additional debris (see Figure D).
8. PLUG UNIT IN (if applicable) and TURN ON.
Cleaning and Maintenance — Dissipater Pan with Heater & Float
(If Present) 1 to 3 months

Perform in conjunction with
Cleaning and Maintenance — Condenser
Cleaning and Maintenance — Evaporator and Drain Pan

Proper maintenance maximizes condensate drainage and boiling, which prevents water leaking on to the floor due to a clogged drain or stuck float. Condensate water flows from evaporator drain pan into dissipater pan through a 1” ID plastic tube that has a preformed P-trap. As the water level rises, the float activates the heater to boil water away. The heater is only active during compressor operation.

1. TURN UNIT OFF and UNPLUG (if possible). This prevents loose particles from being blown around.
2. Unscrew and remove access panels on backside of unit (see Figure A).
3. Remove water and debris from inside pan using a wet/dry vacuum. Left uncleaned, sludge will cause the float to stick, causing possible heater failure and water on the floor.
4. Verify that the float moves freely (see Figure B — arrow). If not, remove all debris trapped between float and corner of pan. If float still does not function, call for service.
5. Verify that water flows freely through the P-trap and remaining tubing (see Figure C — arrow). If not, remove the clog.
6. Replace rear access panel(s) and fasten securely with screws.
7. PLUG UNIT IN (if applicable) and TURN ON.
# Operating Specifications
## Wall of Color / Self-Contained

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<th>Frame Type</th>
<th>Single</th>
<th>Double</th>
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**Wall of Color / Self-Contained**

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# Operating Specifications
## Wall of Color / Remote

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<td>Size 260</td>
<td>61.5x81.0x42.5</td>
<td>–</td>
</tr>
<tr>
<td>Size 272</td>
<td>73.5x81.0x42.5</td>
<td>–</td>
</tr>
<tr>
<td>Size 296</td>
<td>–</td>
<td>97.5x81.0x42.5</td>
</tr>
<tr>
<td>Size 2120</td>
<td>–</td>
<td>124.5x81.0x42.5</td>
</tr>
<tr>
<td>Size 2144</td>
<td>–</td>
<td>148.5x81.0x42.5</td>
</tr>
<tr>
<td><strong>Electrical</strong> (volt/phase/Hz)</td>
<td>115/1/60</td>
<td>115/1/60</td>
</tr>
<tr>
<td>Minimum Circuit Amps (MCA)</td>
<td>15</td>
<td>2 @ 15</td>
</tr>
<tr>
<td><strong>Refrigerant</strong></td>
<td>R404A (lb-Oz.)</td>
<td>Customer Supplied</td>
</tr>
<tr>
<td><strong>Compressor</strong> (qty)</td>
<td>na</td>
<td>na</td>
</tr>
<tr>
<td>Size (hp)</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>RLA @ 208V</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>
# Operating Specifications

## Wall of Color / Remote

*continued*

<table>
<thead>
<tr>
<th>Frame Type</th>
<th>Single</th>
<th>Double</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Condenser Fan</strong></td>
<td>na</td>
<td>na</td>
</tr>
<tr>
<td>(qty)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current (amps @ 220V)</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><strong>Evaporator Fan</strong></td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>(qty)</td>
<td>1.3</td>
<td>2.6</td>
</tr>
<tr>
<td>Current (amps @ 208V)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Evaporator Fan</strong></td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>(qty)</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Coil (qty @ 10,200 btuh)</td>
<td>7.5</td>
<td>7.5</td>
</tr>
<tr>
<td>Impeller Diameter (in)</td>
<td>75</td>
<td>75</td>
</tr>
<tr>
<td>Motor Size (watt)</td>
<td>0.65</td>
<td>0.65</td>
</tr>
<tr>
<td>Motor Speed (rpm)</td>
<td>2500</td>
<td>2500</td>
</tr>
<tr>
<td>Motor Current (amps @ 115v)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Suction Pressure</strong></td>
<td>Customer Supplied</td>
<td>Customer Supplied</td>
</tr>
<tr>
<td>(Typ psig R404A)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Discharge Pressure</strong></td>
<td>Customer Supplied</td>
<td>Customer Supplied</td>
</tr>
<tr>
<td>(Typ psig R404A)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Thermostat</strong> (SP + DIF = Cut-In)</td>
<td>35.0</td>
<td>35.0</td>
</tr>
<tr>
<td>SP – Setpoint Cut-Out (°F)</td>
<td>4.0</td>
<td>4.0</td>
</tr>
<tr>
<td>DIF – Differential (°F)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dual Pressure Switch</strong> (R404A)</td>
<td>na</td>
<td>na</td>
</tr>
<tr>
<td>Low-Press Cut In (psig)</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Low-Press Cut Out (psig)</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>High-Press Cut Out w/Man. Reset (psig)</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><strong>Dissipater Pan</strong> (watts) – optional</td>
<td>na</td>
<td>na</td>
</tr>
<tr>
<td>Current (amps @ 208V)</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Fuse, Ceramic Slo-Blo (MDA 1.25L x .25D)</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

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www.floratech.net
800-535-3295
Operating Specifications
(Remote – 404A Refrigerant)

Remote models have the following additional specs:

- Unit mounted on fixed legs not casters
- Use off cycle defrost (20 min every 6 hrs)
- Refrigerant line sizes are 1/2” OD suction, 3/8” OD liquid
- BTUH is based on entering air 55°F DB and 70% RH, 36°F SST, 375 CFM
- Water drain required for condensate. Typically 1” ID tubing drain connection on back-side of unit
- Operating conditions of 33°F leaving coil temperature
- Unit equipped with TXV and a Liquid Line Solenoid Valve controlled by Digital Thermostat

Operating Specifications
(Remote – Glycol Refrigerant)

Remote models have the following additional specs:

- Unit mounted on fixed legs not casters
- Use off cycle defrost (20 minutes every 6 hours)
- Glycol line sizes are .625 OD suction, .625 OD liquid
- BTUH is based on entering air 55°F DB and 70% RH, 375 CFM
- Water drain required for condensate. Typically 3/4” ID tubing drain connection on back-side of unit
- Operating conditions of 33°F leaving coil temperature
- Unit equipped with an Inlet Solenoid Valve and an Outlet Damper Valve
- Flow Rate is 3.92 gpm
- 20°F Entering Glycol Temperature
- 35% Glycol mix
Operating Specifications
(ABBREVIATIONS)

ABBREVIATIONS:

A or Amp = Amperes
bar
BTUH = British Thermal Unit per Hour
C = Celsius
cm = Centimeters
CFM = Cubic Feet per Minute
DB = Dry Bulb
kg = Kilograms
HZ = Hertz
LBS = Pounds
MCA = Minimum Circuit Amps
Min = Minute
OD = Outside Diameter
PSIG = Pounds per Square Inch Gage
QTY = Quantity
RH = Relative Humidity
RLA = Rated Load Amps
RPM = Revolutions Per Minute
SST = Saturated Suction Temperature
TXV = Thermostatic eXpansion Valve
TYP = Typical
V = Volt
**Problem — Case Temperature Too High**

**Operating Conditions:**

A. Compressor Running, Fans Running, Pressures Normal

*Possible Causes:*

1. Ambient temperature higher than 75°F or external heat being introduced into unit
2. Thermostat improperly adjusted or defective

**Operating Conditions:**

B. Evaporator Or Condenser Fans Stopped

*Possible Causes:*

1. Power to unit is OFF
2. ON / OFF Switch is in OFF Position
3. Wire loose
4. Fan motor defective
5. Fan hitting shroud

**Operating Conditions:**

C. Head Pressure High (Over 300 psig)

*Possible Causes:*

1. Condenser or filter dirty
2. Condenser air path restricted
3. Condenser fan not running
4. Refrigerant overcharge
5. Air in system
Problem — Case Temperature Too High (Continued)

Operating Conditions:

D. Head Pressure Low (Under 125 psig)
Or
Suction Pressure Low (Under 30 psig)

Possible Causes:
1. Ambient temperature lower than 60°F or external cooling being introduced into unit
2. Evaporator coil with excessive frost (see E, below)
3. Filter drier contaminated or other high-side restriction
4. Refrigerant shortage
5. Expansion valve restricted

Operating Conditions:

E. Evaporator Coil With Excessive Frost

Possible Causes:
1. Evaporator airflow restricted
2. Evaporator fan(s) not running
3. Refrigerant undercharge
4. Low pressure switch setting improperly adjusted or defective

Operating Conditions:

F. Compressor Stopped Or Cycling, Evaporator Fans Running

Possible Causes:
1. High pressure switch tripped
2. Low pressure switch setting improperly adjusted or defective
3. Refrigerant over/under charge
4. Compressor wire loose
5. Compressor defective
Problem — Case Temperature Too Low

Operating Conditions:

A. Compressor Running, Fans Running

Possible Causes:

1. Thermostat setting too low (adjust per operating instructions)
2. Thermostat defective

Problem — Water On Floor

Operating Conditions:

A. Normal Operation

Possible Causes:

1. Flowers drip during removal
2. Water spilled in case
3. Relative humidity too high (above 50%) and/or ambient temperature too low (below 65°F)
4. Evaporator drain hole or drain tube clogged
5. Hose clamp loose
6. Dissipater pan or its circuit failed
7. Drain pan leaks (Evaporator or Dissipater)

Problem — Excess Noise or Vibration

Operating Conditions:

A. Normal Operation

Possible Causes:

1. Screws or panels loose
2. Unit positioned on uneven floor
3. Fans hitting excessive ice build up on evaporator coil
4. Refrigerant overcharge
DANGER ELECTRIC SHOCK HAZARD
DISCONNECT POWER BEFORE SERVICING
DANGER ELECTRIC SHOCK HAZARD
DISCONNECT POWER BEFORE SERVICING

LEGEND :
B BALLAST (LIGHT OPTION)
EF EVAPORATOR FAN MOTOR
FS FLOAT SWITCH
F1 FUSE 3/4 AMP (LIGHT OPTION)
LOWPRO UNIT
F1 FUSE 5 AMP (LIGHT OPTION)
UPTIGHT UNIT
F2 FUSE 10 AMP
H HEATER
LS LIGHT SWITCH (LIGHT OPTION)
LI FLUORESCENT LIGHT (OPTION)
RS REFRIGERANT SOLENOID VALVE
S SWITCH (UNIT ON/OFF)
SS SAFETY SWITCH (HI TEMP)
DISSIPATOR PAN

TERMINAL BLOCK WIRING
8 JUMPER, ALL GRN, GRD TO BOX
7 NA
6 NA
5 NA
4 5, 11, 13, 50
3 WHT, 4, 10, 30
2 NA
1 BLK 32, 48
Warranty Procedure

The unit serial number is noted on all packing lists and bills of lading and, along with the shipping date, is kept on file at Floratech for warranty purposes. All correspondence regarding warranty must include the model number and serial number of the unit involved. Note that the warranty is null and void if the serial number on the unit or compressor is altered, removed or defaced. All inquiries or correspondence regarding warranty should be handled in accordance with the Warranty (see next page) and directed to:

Floratech
7000 Performance Drive
North Syracuse, New York 13212
Attn: Service Department

1.800.535.3295

This procedure includes but is not limited to:

Obtaining authorization from Floratech prior to incurring any charges for repair or replacement.

Returning prepaid within 30 days any and all defective parts.
Warranty

General

Floratech warrants, to the original buyer, its goods and all parts thereof to be free from defects in material and workmanship for one year from the date of invoicing assuming NORMAL USE AND SERVICE.

Liability

Floratech liability shall be limited to the repair or replacement (at its option) of any part, which, at our sole discretion, is determined to be defective. The purchaser shall pay all transportation costs. Additionally, if a malfunction occurs within 90 days from the date of invoice, Floratech will reimburse the reasonable cost of labor required for the repair or replacement provided authorization is obtained from one of our authorized representatives prior to incurring any labor charges.

Limitation of Liability

THESE WARRANTIES ARE MADE IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND IN LIEU OF ANY OTHER OBLIGATION OR LIABILITY, INCLUDING LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. Floratech will not be responsible for any costs or liabilities whatsoever resulting from improper installation or service of its equipment. In the event that Floratech or its distributors are found liable for damage based on any defect or nonconformity in the products, their total liability for each defective product shall not exceed the purchase price of such defective product. Additionally, neither the repair nor the replacement of any part shall serve to renew or extend the original warranty period. No person or representative is authorized to change these warranties or assume any other obligations or liabilities for Floratech in connection with the sale of its systems.

Indemnification

Purchaser agrees to indemnify, hold harmless and defend seller and its officers, directors, agents and employees from and against any and all claims, liabilities, costs and expenses arising out of or related to Purchaser’s use of the goods, or in any way involving injury to person or property or accident occasioned by the goods sold by Floratech to Purchaser.

Foreign Government and Indian Nations

If Purchaser is a foreign government or an Indian nation, Purchaser hereby expressly waives its defense of sovereign immunity in the event of a dispute between Purchaser and Floratech regarding this invoice and Purchaser expressly acquiesces to the jurisdiction of the federal and state courts of the United States.
Severability

If one or more of the provisions contained in this contract shall for any reason be held to be invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any other provision of this contract, but this contract shall be construed as if such invalid, illegal or unenforceable provision had never been contained.

Additional Requirements

If a defect covered by the Warranty occurs, contact Floratech for authorization to proceed with corrective action. Do not return any parts or incur any charges for which you expect to be reimbursed under this Warranty without receiving this authorization. If parts are replaced under this Warranty, the defective parts must be returned prepaid within 30 days. This Warranty shall be null and void in its entirety if the Serial Number on the air conditioner or compressor is altered, removed or defaced.

April 2006 revision

Floratech

7000 Performance Drive
North Syracuse, New York 13212

Phone: 1-315-452-7400
Fax: 1-315-452-7420
info@airinnovations.com
www.airinnovations.com

Please Note: Continuous product improvement requires we reserve the right to change these specifications without notice.