

# QUEST 205



- + Digital Controls
- + Industry-Leading Efficiency
- + Patented M-CoRR™ Technology
- + Superior MERV-13 Air Filtration
- + Integrated Lift and Hang Points

Model Number 4046110

Serial Number \_\_\_\_\_

Install Date \_\_\_\_\_

Sold By \_\_\_\_\_



Patents: [thermastor.com/patents](http://thermastor.com/patents)

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## SAFETY PRECAUTIONS

Read the installation, operation and maintenance instructions carefully before installing and operating this device. Proper adherence to these instructions is essential to obtain maximum benefit from your Quest dehumidifier.

### READ AND SAVE THESE INSTRUCTIONS

- » The device is designed to be installed INDOORS IN A SPACE THAT IS PROTECTED FROM RAIN AND FLOODING.
- » Install the unit with space to access the back or side panels for maintenance and service. DO NOT INSTALL UNIT WITH THE SERVICE PANELS INACCESSIBLE.
- » Avoid directing the discharge air at people, or over the water in pool areas.
- » If used near a pool, spa, or water: be certain there is NO chance the unit could fall into the water or be splashed and that it is plugged into an outlet that is a GROUND FAULT INTERRUPT protected circuit.
- » DO NOT use the device as a bench or table.
- » DO NOT place the device directly on structural members. Provide vibration isolation in order to minimize operational vibration and/or noise.
- » A drain pan MUST be placed under the unit if installed above a living area or above an area where water leakage could cause damage.
- » Never operate a unit with a damaged power cord. If the power cord is damaged it must be replaced by the manufacturer, its service agent, or similarly qualified person in order to avoid a hazard.
- » Make all electrical connections in accordance with the current edition of the NEC ANSI/NFPA 70 and any national and local codes or ordinances that may apply.
- » Maintain a minimum 3ft. (1m) clearance to avoid obstructing the air return and supply.
- » This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- » Not intended for use at altitudes over 6500 ft (2000M).

 **WARNING** Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.

The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance, or an operating electric heater).

Do not pierce or burn. Be aware that refrigerants may not contain an odor.



**REFRIGERANT  
SAFETY GROUP  
A2L**

### 1. INTENDED APPLICATION FOR QUEST 205

The Quest 205 dehumidifier is designed to operate in temperatures between 56° and 95°F.

In order to efficiently control humidity levels, the area in which the dehumidifier is to be operated must be free of water intrusion or excessive fresh (outside) air infiltration. Before installing the Quest 205 dehumidifier, water intrusion and air infiltration problems should be addressed or noted in calculations.

### 2. REGISTRATIONS

The Quest 205 dehumidifier units conform to unified standard UL 60335-2-40, CSA C22. US Patents: D570,988 / 8,069,681 / 9,052,132.

### 3. SPECIFICATIONS @ 80°F/60% RH

UNIT	QUEST 205 4046110	
<b>BLOWER:</b> (TESTED WITH DUCT COLLARS ON)	575 CFM @ 0.0" WG	
<b>POWER:</b>	1100 Watts	
<b>SUPPLY VOLTAGE:</b>	115V 1 Phase - 60 Hz	
<b>CURRENT DRAW:</b>	10A @ 110V	
<b>MCA *</b>	15A	
<b>MOP *</b>	25A	
<b>RECOMMENDED BREAKER SIZE:</b>	25A	
<b>ENERGY FACTOR:</b>	3.6 L/kWh	
<b>OPERATING TEMP:</b>	56 F Min-95 F Max	
<b>WATER REMOVAL: EFFICIENCY:</b>	200 Pints/Day 7.7 Pints/kWh	
<b>AIR FILTER: MERV-13</b>	Size: 18" x 18" x 2"	
<b>POWER CORD:</b>	9', NEMA 5-15P	
<b>DRAIN CONNECTION:</b>	3/4" Threaded NPT	
<b>REFRIGERANT TYPE:</b>	R454B	
<b>REFRIGERANT AMOUNT:</b>	3 lb 2 oz	
<b>DIMENSIONS:</b>	Unit	Shipping
<b>WIDTH:</b>	23.6"	25"
<b>HEIGHT:</b>	20.9"	21"
<b>LENGTH:</b>	26.8"	29"
<b>WEIGHT:</b>	130 lb	152 lb

**\* MCA = Minimum Circuit Ampacity**

This number provides a qualified electrician with the information needed to determine the minimum wire size used in the circuit that feeds a single dehumidifier.

**\* MOP = Maximum Overcurrent Protection**

This number provides a qualified electrician with the value of the maximum size circuit breaker that may be used to protect the circuit that feeds a dehumidifier.

**NOTE:** Specifications are subject to change without notice.

## 4. INSTALLATION

### 4.1 LOCATION

The Quest 205 dehumidifier can be installed in a variety of locations to meet the owner's needs as listed below. In all cases keep the following cautions in mind:

- » Place the Quest 205 dehumidifier on supports that raise the base of the unit 6" above the secondary drain pan so a P-trap can be installed. See Section 4.3.
- » The Quest 205 dehumidifier may be suspended with steel hanger, straps, or a suitable alternative from structural members. Don't hang from sides or ends. See section 4.4 for hanging diagram.
- » If installing on ground, use included plugs to cover hanging locations on top of the machine.
- » If hanging machine in air, use included plugs to cover holes in base pan for leveling feet.
- » The minimum floor area of the room shall be 28 m<sup>2</sup> (square meters).
- » Keep any required ventilation openings clear of obstruction.
- » Ducts connected to the dehumidifier shall not contain a POTENTIAL IGNITION SOURCE.
- » Supply and return air shall be directly ducted to the space. Open areas such as false ceilings shall not be used as a return air duct.

#### Unventilated Areas

- » Unventilated Areas where the Quest 205 dehumidifier is installed or stored need to be so constructed that should any refrigerant leak, it will not stagnate so as to create a fire or explosion hazard.
- » Quest 205 dehumidifier shall not be stored or ducted into one or multiple rooms with continuously operating open flames (for example an operating gas appliance) or other POTENTIAL IGNITION SOURCES (for example an operating electric heater, hot surfaces). A flame-producing device may be installed in the same space if the device is provided with an effective flame arrest.

### 4.2 ELECTRICAL REQUIREMENTS

The Quest 205 dehumidifier plugs into NEMA rated receptacles. The amp draw under normal operating conditions is listed on page 3. A ground fault interrupter protected circuit is required.

Install the remote hygostat in a central area of the structure where it will sense the relative humidity of the structure accurately. Do not install the hygostat where it may not accurately sense the relative humidity such as near HVAC supply registers, near exterior doors, or near a pool or spa. The installer must supply the wiring between the Quest 205 dehumidifier and the hygostat. Be sure to safely route the control wiring to prevent damage during installation. Be careful not to cross the wires when connecting the Quest 205 dehumidifier and the remote hygostat.

The remote controls of the Quest 205 dehumidifier are powered by a low voltage circuit (24 VAC) and must NEVER contact or be connected to a high voltage circuit. The control terminals and remote control are labeled and numbered to prevent confusion. Be sure to consult the electrical schematic in this manual or inside the access panel of the Quest 205 dehumidifier before making the control connections.

**⚠ CAUTION!** Always disconnect the Quest 205 from a power source when working with the high voltage control wires.

**⚠ CAUTION!** For proper drainage, the unit must be mounted so the drain outlet is at least 6.75" above the floor drain, and must be fully supported under the base.

### 4.3 CONDENSATE WATER REMOVAL

Condensate drains by gravity via the drain port. Use 3/4" male NPT PVC pipe. An optional condensate pump kit may be installed if a lift is required to dispose of the condensate. Optional parts list for information on the kit.

#### FOLLOW DIAGRAM:

#### QUEST 205

$$H = 4''$$

$$J = 2''$$

$$L = 6.75''$$

#### Vent:

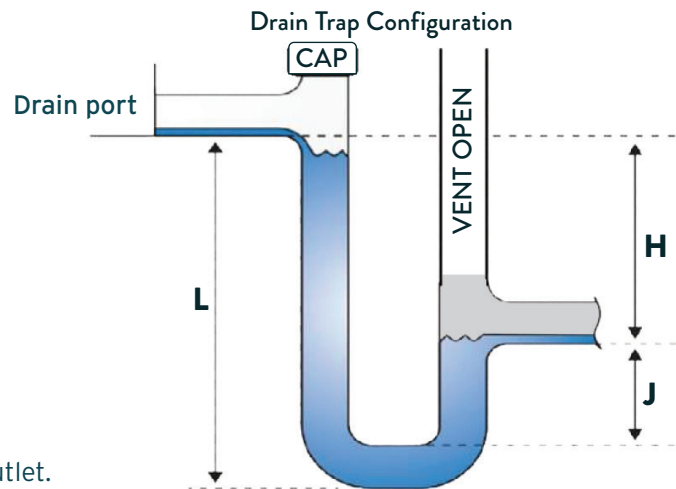
- » Place vent after the trap.
- » Vent should be open.
- » Height of vent should be higher than drain outlet.

#### Cap:

- » A clean out can be placed before trap but must be sealed with a cap.

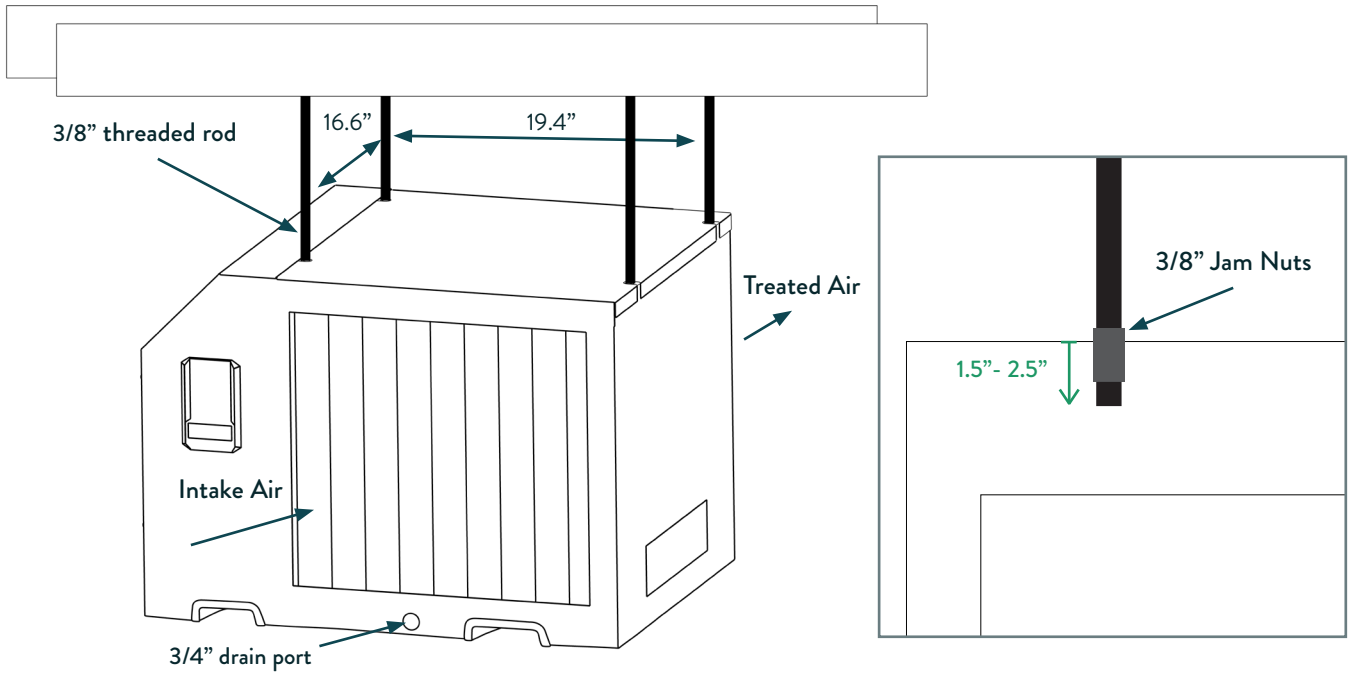
#### Drain Line:

- » Drain line should go in a downward slope to the drain.
- » 1/4" drop per foot.



4.4 HANGING DIAGRAM

QUEST 205



**Parts Needed:** 4 pieces 3/8" threaded rod (not included)  
 4 - 3/8" threaded jam nuts (not included)

**⚠** Threaded rods should be engaged no less than 1.5" into machine, and no greater than 2.5".

Damage to the machine may occur if installed too far.



## 4.5 DUCTING

Return and supply duct collars are optional accessories for the Quest 205 and not included with the unit.

**⚠ CAUTION!** Do not connect with a static pressure greater than or equal to .4" WG. Contact technical support at (877) 420-1330 for additional details.

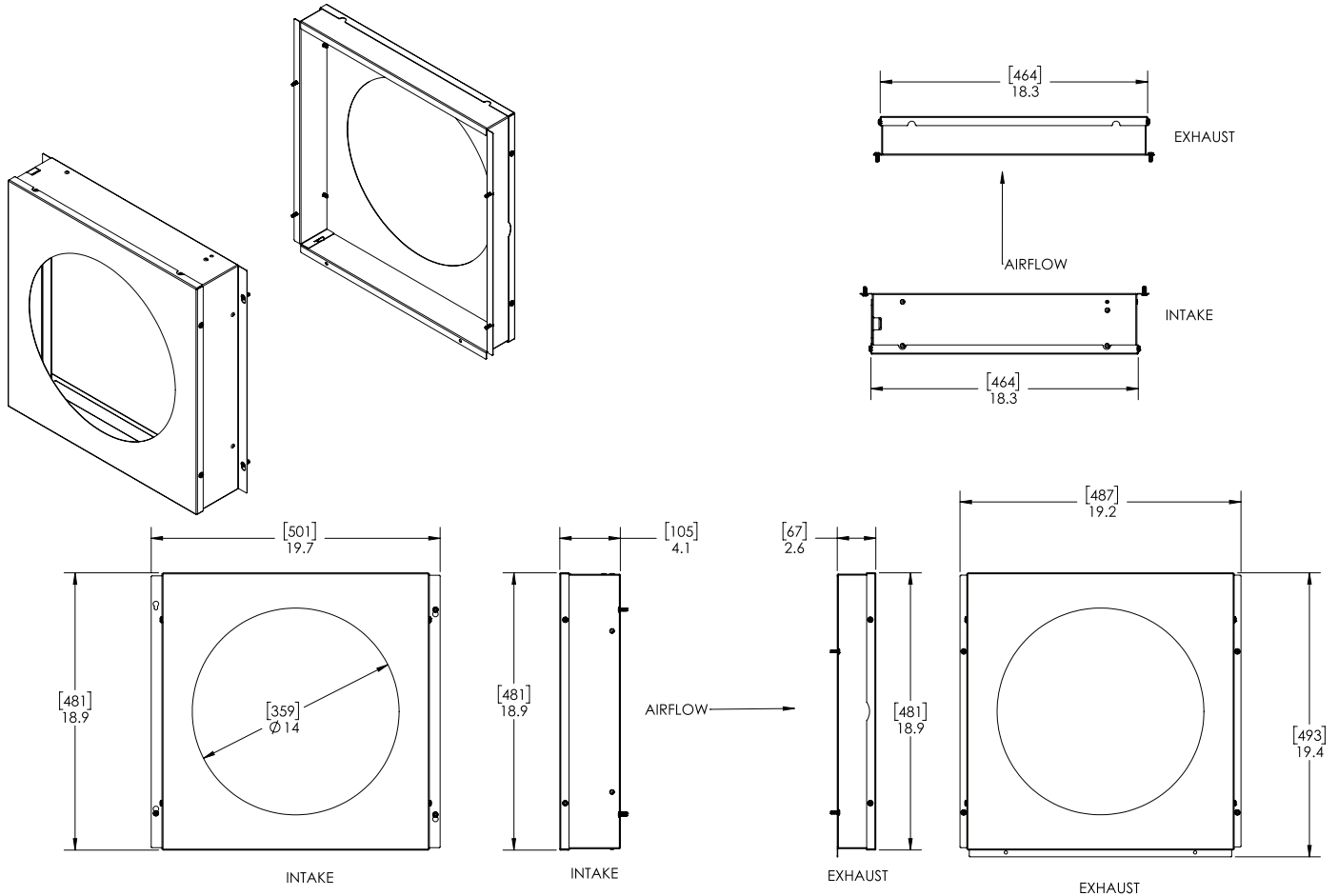
### DUCTING CONSIDERATIONS:

- » All flexible ducting connected to the Quest 205 should be UL listed.
- » A short piece of flexible ducting on all Quest 205 duct connections is recommended to reduce noise and vibration transmitted to rigid ductwork in the structure.
- » Use a minimum 14" diameter round or equivalent rectangular duct for total duct lengths of up to 25'.
- » Grills or diffusers on the duct ends must not excessively restrict airflow.
- » A length of 8" or more of insulated flex duct or any other vibration isolating material on the outlet of the Quest 205 will reduce air noise from the blower.
- » When ducting two or three areas, use 8" or larger diameter branch ducting. When ducting to four or more areas, use 6" or larger diameter branch ducting. Provisions must be made to provide airflow supply locations to the central return location. Proper air distribution is important to ensure even humidity control and heat distribution throughout the structure.

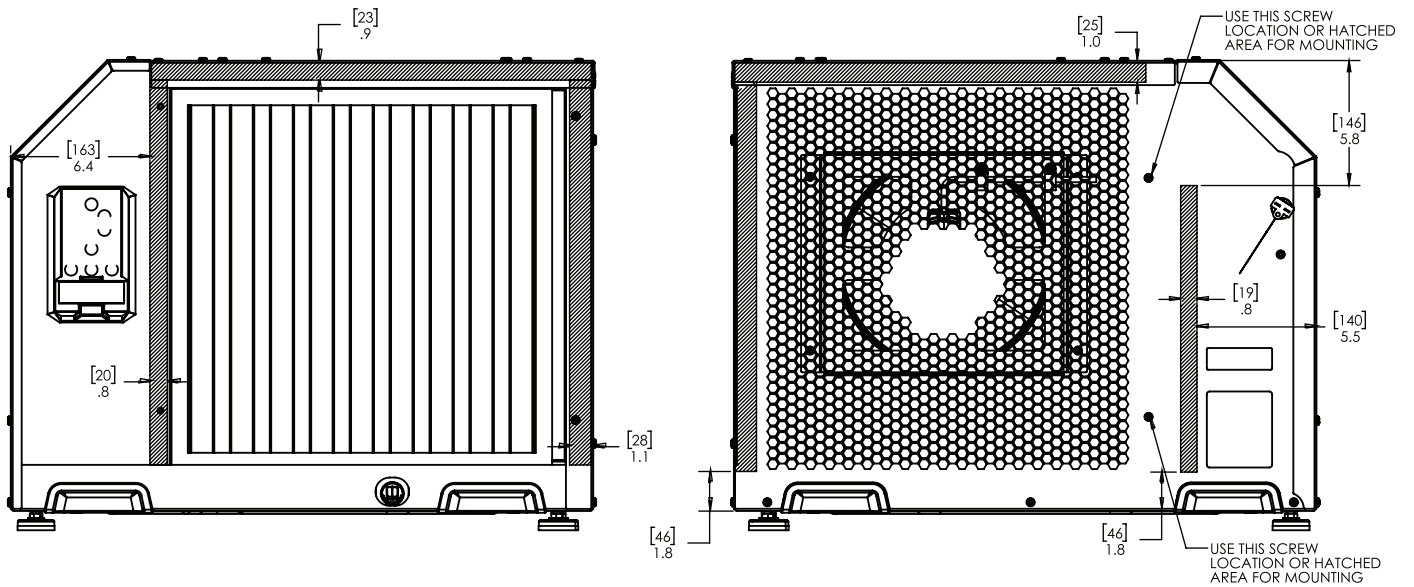
**CONTINUES ON NEXT PAGE**

### QUEST 205 SUPPLY AND RETURN DUCT KIT (P/N 4043235)

If factory duct kit accessory was purchased, follow instructions included with duct kit. Dimensions below are shown in inches and [millimeters].



If owner chooses to have a licensed HVAC contractor fabricate a duct kit, please follow the drawing below for safe zones for self tapping screws.

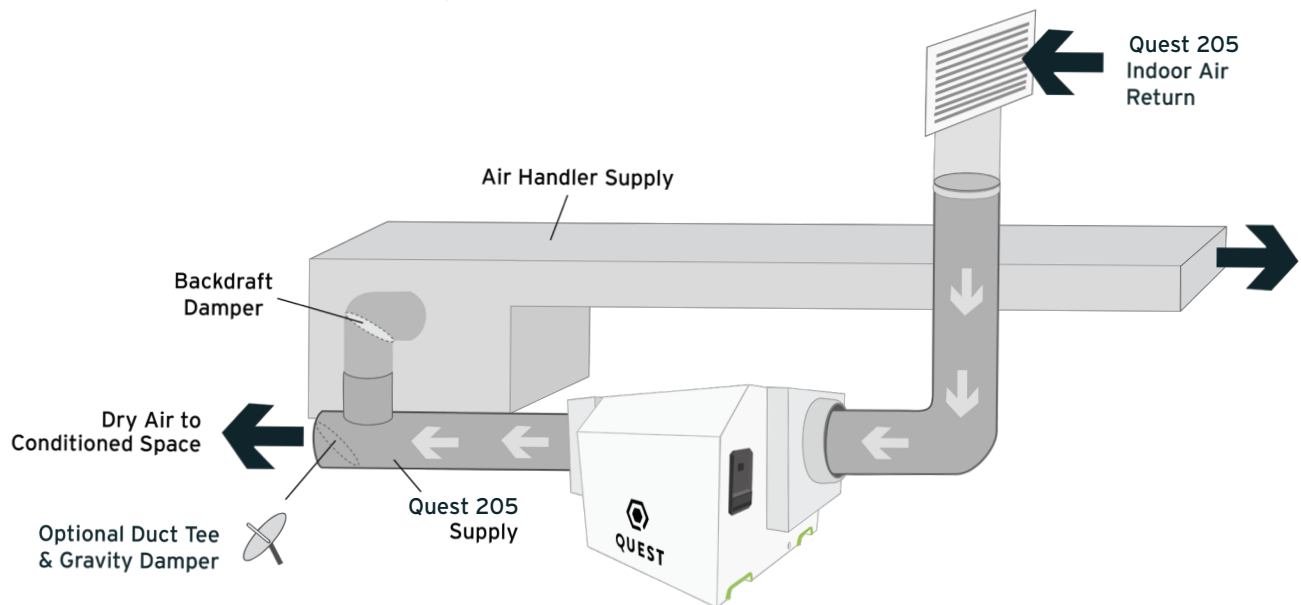


## DUCTING TO HVAC OPTIONS

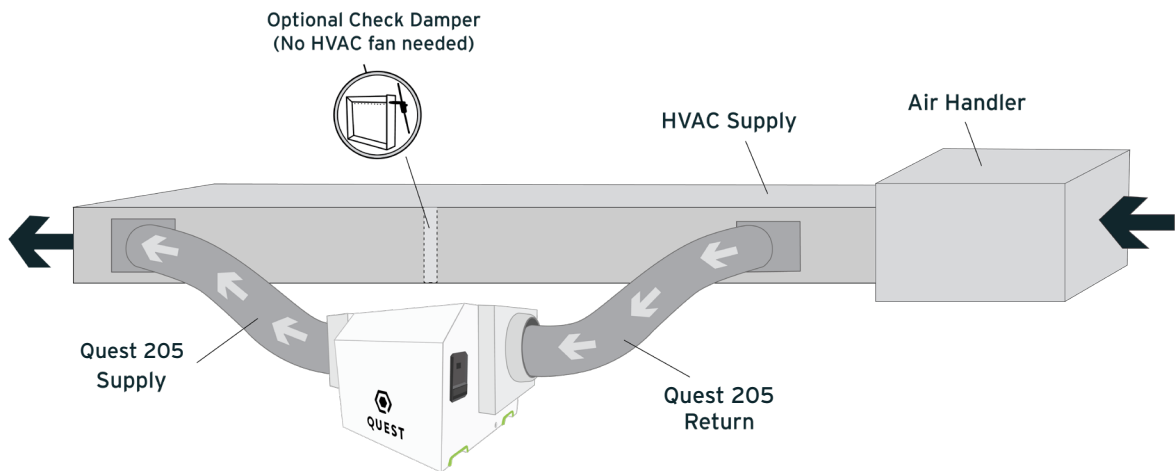
### A. DEDICATED RETURN TO SUPPLY (RECOMMENDED)

**⚠ CAUTION!** To avoid the dehumidifier cycling in and out of DEFROST, it is recommended that the leaving air temperature of the A/C coil is not below 55°F. Also, this install is not recommended for climates where the heating system will run during the spring and fall times of year, as this could diminish the water removal capability of the dehumidifier. If the Check Damper is not used, it is important to have the HVAC system fan ON when the dehumidifier is ON to prevent backflow of air.

**⚠ WARNING!** Due to pressure resistance it is not recommended to use the optional outdoor air intake when installing the dehumidifier supply to supply.

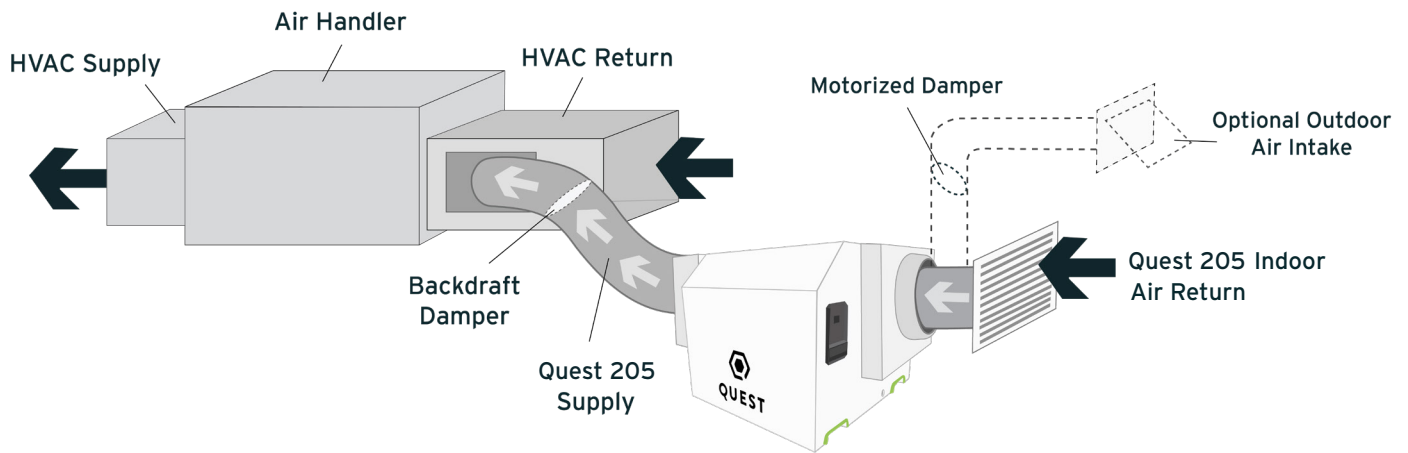


### B. HVAC SUPPLY TO SUPPLY



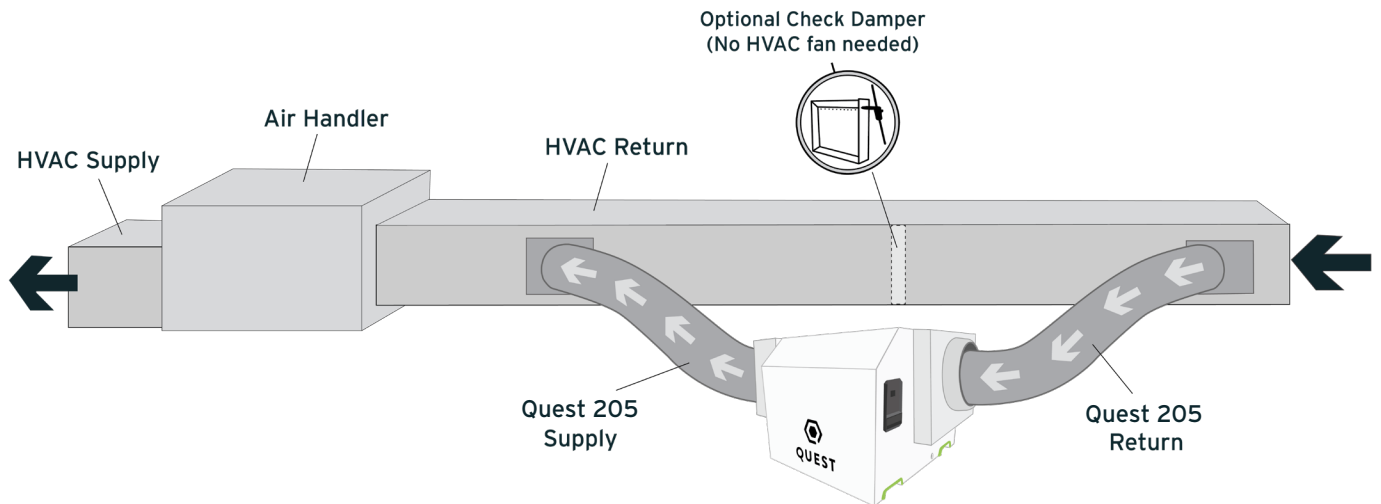
**⚠ CAUTION!** PLEASE NOTE: Installs where the supply of the dehumidifier is ducted to the return of the A/C are to be considered last resort options and are not recommended. The dehumidifier will heat the AC cooling coils which diminishes the amount of water the AC system will remove when operating. A/C calls should lock out the dehumidifier from running. Please check your local codes prior to installing.

**C. DEDICATED QUEST RETURN TO HVAC RETURN**



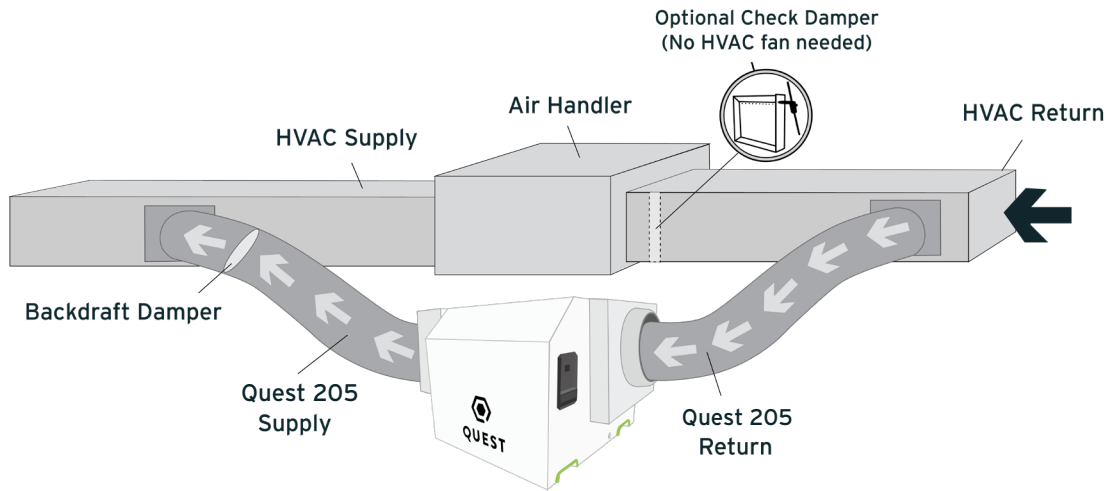
Create a separate return for the Quest 205 Dehumidifier in a central area of the building.

**D. HVAC RETURN TO HVAC RETURN**



**NOTE:** If Check Damper is not in place, the HVAC fan must ON when the dehumidifier is in operation.

**E. HVAC RETURN TO HVAC SUPPLY**

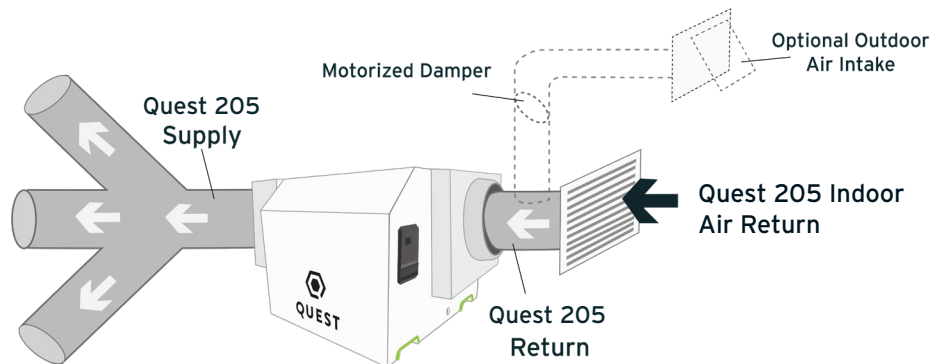


Check damper should be in place between the Return and Supply connections of the dehumidifier. If the Check Damper is not in place, the HVAC fan must be ON when the dehumidifier is in operation. Do not exceed 0.4" of static pressure.

**F. NO EXISTING DUCTWORK INSTALLATION**

When installing the Quest 205 Dehumidifier in a structure that does not have a forced-air HVAC system, a single return for the dehumidifier should be installed in a central location. The supply air should be ducted back into the space you want to dry. Proper air distribution is important for optimal performance of the dehumidifier. Install a 6" insulated duct from outside, teeing into the 14" return duct of the Quest 205 Dehumidifier to provide outdoor air ventilation (optional).

A 14" diameter duct is recommended for branches to larger areas.



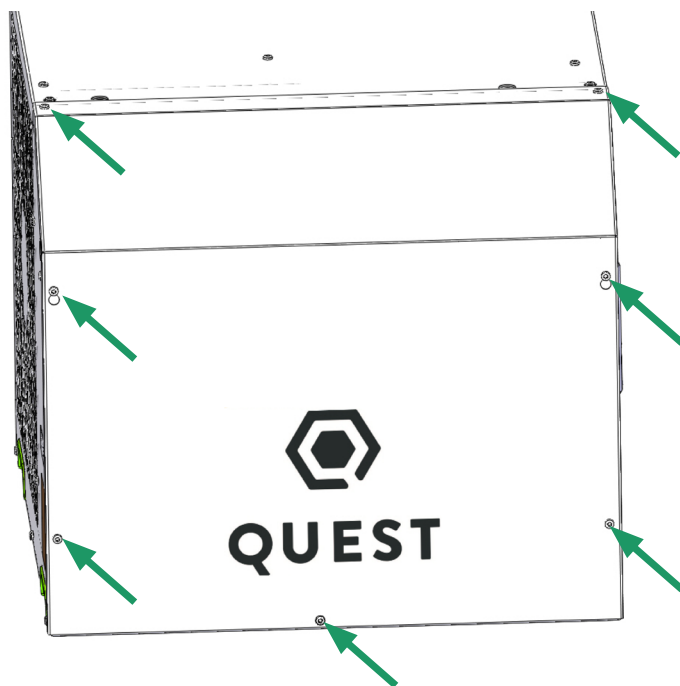
#### 4.6 HARD-WIRING INSTRUCTIONS

**⚠ WARNING!** Servicing the Quest 205 Dehumidifier, with its high pressure refrigerant system and high voltage circuitry presents a health hazard which could result in death, serious bodily injury, and/or property damage. Only qualified service people should service this unit.

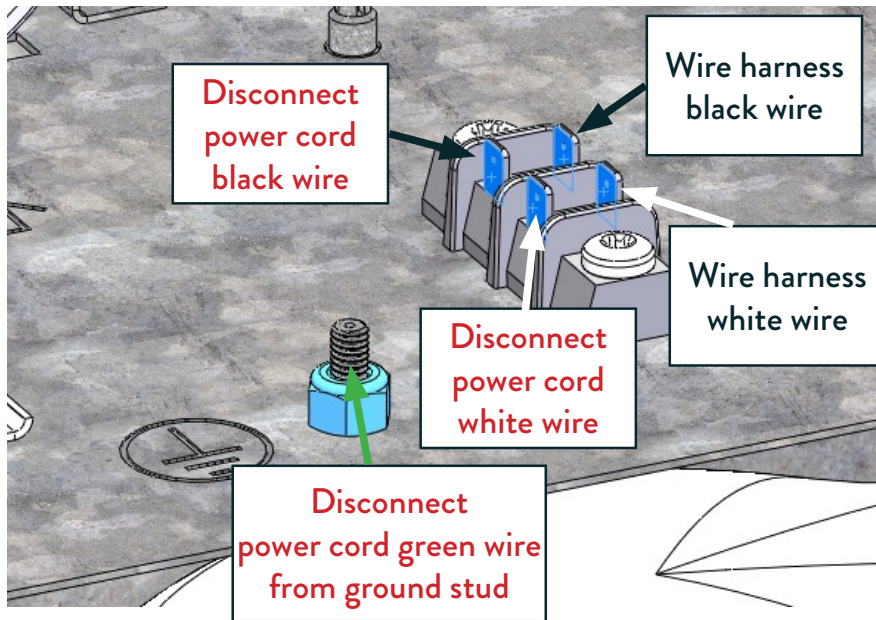
#### TOOLS REQUIRED:

- » T25 Torx Driver
- » 11/32" Driver

Following all local and national electrical codes and standards, route electrical service to the location that the dehumidifier will be installed. A field-installed disconnect is required when hard-wiring this Quest dehumidifier.



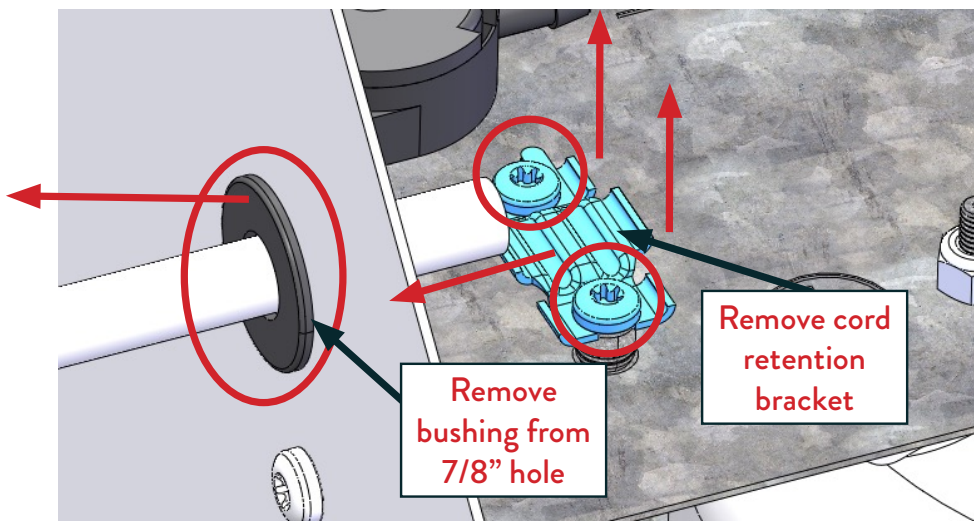
Remove 7 screws on access panel using T25 Torx driver, remove panel.



Disconnect POWER CORD BLACK wire from terminal

Disconnect POWER CORD WHITE wire from terminal.

Use 11/32" driver to remove nut from ground stud and disconnect POWER CORD GREEN wire from ground stud.

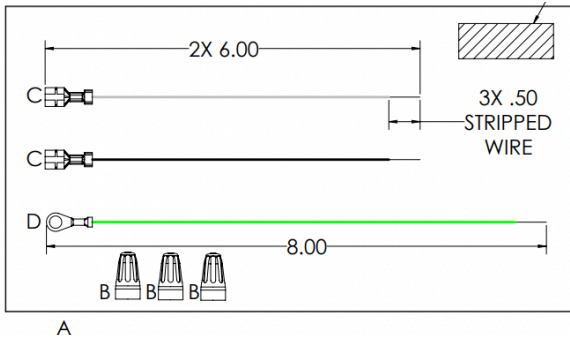


Remove the 2 screws holding the cord retention bracket using T25 Torx driver and remove retention bracket.

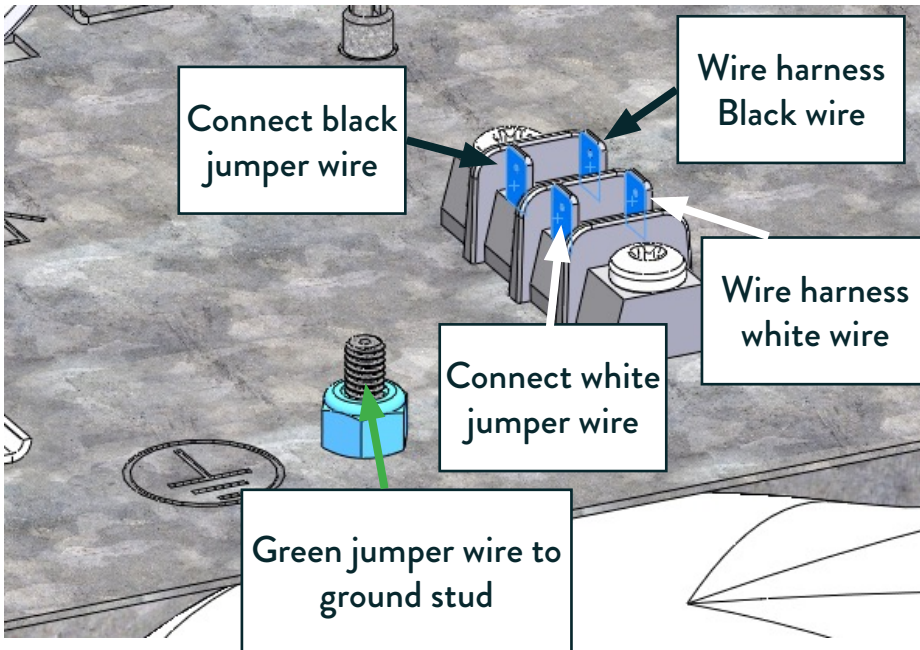
Remove power cord and black bushing.

Route incoming power service wires through 7/8" hole and secure using clamps intended for the conduit or cable.

Hardwire kit with jumper wires can be found in the pack part kit.



- Connect BLACK and WHITE jumper wires to terminal block as shown.
- Place GREEN jumper wire ring terminal on ground stud and use 11/32" driver to secure nut to stud.
- Attach incoming service LINE 1 wire to BLACK jumper wire with the provided wrenut.
- Attach incoming service LINE 2 wire to WHITE jumper wire with the provided wrenut.
- Attach incoming service GROUND wire to GREEN jumper wire with the provided wrenut.



Replace access panel using T25 Torx driver to secure 7 screws. (Refer to illustration on page 12).

## 5. CONTROL OPTIONS

The Quest 205 dehumidifier can be controlled by its on board dehumidistat or with an external control using its low voltage terminal block.

### 5.1A QUEST 205 ONBOARD DEHUMIDISTAT

**Off Mode:** Fan, Compressor, Display and all LEDs are off

**To Turn Unit On:** Press the power button

**On Mode:** Display is on and shows the set point (Initial set point: 55% RH)

**To Change Set Point:**

- » Press the up or down arrow once, the 2-digit display will begin to blink.
- » Adjust to desired RH. Each push of the button will change the set point 1% RH.
- » After 6 seconds without a button being pushed the number showing will become the new setpoint.



### DEFROST LIGHT

- » The light over the snowflake will light up when defrost is occurring (ice is detected on coils). The fan will be on, and the compressor will be off during defrost. Defrost is a normal function of the dehumidifier.



### FILTER RESET

- » Filter reset button will light up after the fan has been running for 2,000 hours.
- » After changing the filter, press and hold the filter reset button to reset the 2,000-hour timer. Light flashes while button is held.



### DARK MODE

- » Press the Dark Mode button to activate Dark Mode.
- » Once Dark Mode is activated, lights will remain on for 20 seconds before the unit's display will go dark. Dark Mode light will flash for 3 seconds before unit goes dark.
- » Unit will temporarily leave dark mode when any button is pushed and will go dark 20 seconds after the last button is pushed.
- » To turn off Dark Mode, press the Dark Mode button and ensure light above Dark Mode button is off.
- » This mode is for applications where the user would like the unit to operate without emitting any light.

**FAN**



Pressing the Fan button alternates the Fan running only when dehumidifying and Fan always on. As an alternate method to run the fan continuous, a wire jumper on the low voltage terminal block can be moved from FAN-to-24V COM to FAN-to-24VAC.

**TERMINAL CONTROL**



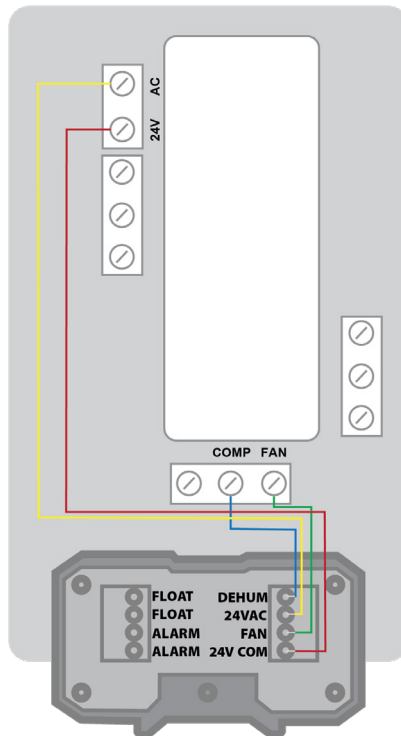
- » When the Terminal Control button is pressed, the display will show "tc".
- » The Terminal Control button is used to activate the "DEHUM" input on the terminal block. (see section 5.1B)
- » This must be activated when an external control is used to control RH. When Terminal Control is active, the internal RH sensor is disabled.

**5.1B QUEST 205 EXTERNAL CONTROL OPTIONS**

Quest offers two external control options: Quest DEH 3000R and Honeywell Humidipro.

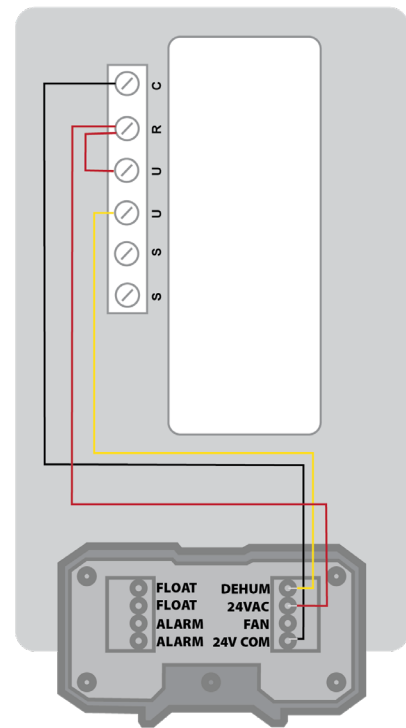
**4028531**

**QUEST DEH 3000R CONTROL WIRING DIAGRAM**



**4041649**

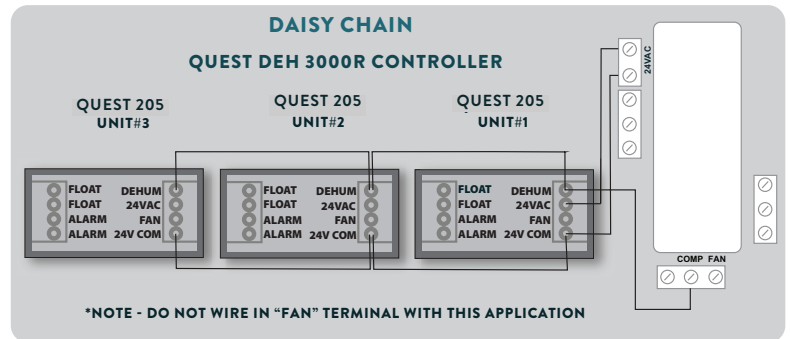
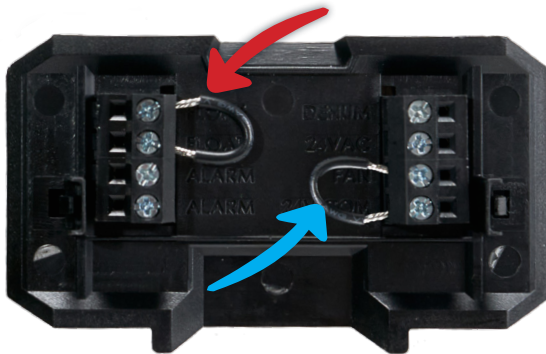
**HONEYWELL HUMIDIPRO WIRING DIAGRAM**



**NOTE:** 18-22 ga wire needed for sensor  
 To order a controller, contact your dealer, call 1-877-420-1330, or go to: [www.questclimate.com/product-category/accessories](http://www.questclimate.com/product-category/accessories)

### 5.2 QUEST 205 EXTERNAL CONTROL

Remove the cover from the bottom of the user interface to expose the terminal block inputs & outputs.



- Red Arrow (top):** Float jumper wire **MUST** stay in place or unit will go into error.
- Blue Arrow (bottom):** This is an extra jumper wire that has no function in its factory-installed location. Move the wire up one spot to FAN and 24V for continuous fan operation.

#### Quest 205 Terminal Block Control Operations:

- DEHUM:** Dehumidification (Fan and Compressor) Control Input.
- 24VAC:** Transformer High Side Output to External Control.
- Fan:** Fan Control Input.
- 24V COM:** 24VAC Power Transformer Neutral Side Output to External Control.
- FLOAT:** External Low Voltage Float Switch or Water Sensor Input (Use Normally Closed Switch).
- FLOAT:** External Low Voltage Float Switch or Water Sensor Input (Use Normally Closed Switch).
- Alarm:** Normally Closed Relay Output - Indicates when dehumidifier is in an alarm state.
- Alarm:** Normally Closed Relay Output - Indicates when dehumidifier is in an alarm state.

**NOTE:** Alarm terminals are used to interface with a remote alarm or building automation system. The terminals switch when the unit has a malfunction and are factory set to “normally closed” but can be changed to “normally open”.

## 6. MAINTENANCE

**⚠ WARNING! NOTE:** Do not operate the unit without the filter or with a less effective filter. The heat exchange coils inside the unit could become clogged and require disassembly to clean. Filter non-compliance invalidates the product warranty.

### 6.1 STANDARD AIR FILTER

The Quest 205 dehumidifier ships with a standard MERV-13 efficient pleated fabric filter. This filter should be checked every six months. Operating the unit with a dirty filter will reduce dehumidifier capacity and efficiency and may cause the compressor to cycle off and on unnecessarily on the defrost control.

To remove the air filter, slide the filter up and pull the bottom of the filter from the filter retention slot. If optional inlet duct is installed, access the filter by removing the magnetic filter door and sliding the filter out of the inlet duct. We recommend changing the filter at least every 6 months. For agriculture, we recommend changing the filter with every grow cycle.

### 6.2 IMPELLER FAN OILING

The impeller fan motor is factory lubricated for many years of normal operation, and no further oiling is required.

## 7. SERVICE

**⚠ WARNING!** Servicing the Quest 205 with its high pressure refrigerant system and high voltage circuitry presents a health hazard which could result in death, serious bodily injury, and/or property damage. Only qualified service people should service this unit.

### 7.1 WARRANTY

A warranty certificate has been enclosed with this unit; read it before any repair is initiated. If a warranty repair is required, call the factory first at 1-877-420-1330 for warranty claim authorization and technical assistance.

### 7.2 TECHNICAL DESCRIPTION

The Quest 205 dehumidifier uses a refrigeration system similar to an air conditioner's to remove heat and moisture from incoming air, and add heat to the air that is discharged.

Hot, high-pressure refrigerant gas is routed from the compressor to the condenser coil. The refrigerant is cooled and condensed by giving up its heat to the air that is about to be discharged from the unit. The refrigerant liquid then passes through a filter/drier and expansion device which causes the refrigerant pressure and temperature to drop. It next enters the evaporator coil where it absorbs heat from the incoming air and evaporates. The evaporator operates in a flooded condition, which means that all the evaporator tubes contain liquid refrigerant during normal operation. A flooded evaporator should maintain nearly constant pressure and temperature across the entire coil, from inlet to outlet.

The compressor collects the cool refrigerant gas and compresses it to a high pressure and temperature to repeat the process.

### 7.3 SERVICE PERSONNEL

Only qualified HVAC or electrical contractors are allowed to conduct maintenance, service and/or repair operations on Quest 205 machines. Examples include but are not limited to breaking into the refrigerating circuit, opening of sealed components, and/or opening of ventilated enclosures.

Prior to beginning work on the Quest 205 machine, safety checks are necessary to ensure that the risk of ignition is minimized.

- » For repair to the REFRIGERATING SYSTEM, a qualified contractor should first establish a controlled procedure so as to minimize the risk of a flammable gas or vapor being present while the work is being performed
- » All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided.
- » The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.
- » If any hot work is to be conducted on the refrigerating equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO2 fire extinguisher adjacent to the charging area
- » No person carrying out work in relation to a REFRIGERATING SYSTEM which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. "No Smoking" signs shall be displayed.

- » Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

**The following checks shall be applied to installations using flammable refrigerants:**

- » Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times Therma-Stor's maintenance and service guidelines shall be followed. If in doubt, consult Therma-Stor's technical department for assistance.
- » The actual REFRIGERANT CHARGE is in accordance with the room size within which the refrigerant containing parts are installed;
- » The ventilation machinery and outlets are operating adequately and are not obstructed;
- » Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;
- » Dehumidifiers are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

### 7.3A CHECKS TO ELECTRICAL DEVICES

Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised.

**Initial safety checks shall include:**

- » that capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;
- » that no live electrical components and wiring are exposed while charging, recovering or purging the system;
- » that there is continuity of earth bonding.

### 7.3B REPAIRS TO SEALED COMPONENTS

- » During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc. If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.
- » Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.
- » Ensure that the equipment is mounted securely.
- » Ensure that seals or sealing materials have not degraded to the point that they no longer serve the purpose of preventing the ingress of flammable atmospheres
- » Replacement parts shall be in accordance with Therma-Stor specifications.

CONTINUES ON NEXT PAGE

### 7.3C REPAIRS TO INTRINSICALLY SAFE COMPONENTS

- » Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.
- » Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere. The test apparatus shall be at the correct rating.
- » Replace components only with parts specified by Therma-Stor. Other parts may result in the ignition of refrigerant in the atmosphere from a leak.
- » NOTE The use of silicon sealant can inhibit the effectiveness of some types of leak detection equipment. Intrinsically safe components do not have to be isolated prior to working on them.
- » Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects. The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

### 7.3D DETECTION OF FLAMMABLE REFRIGERANTS

Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.

**The following leak detection methods are deemed acceptable for all refrigerant systems.**

- Electronic leak detectors may be used to detect refrigerant leaks but, in the case of FLAMMABLE REFRIGERANTS, the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.) Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used. Leak detection equipment shall be set at 25% LFL of the refrigerant and shall be calibrated to 454B.
- Leak detection fluids are also suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe.
- **NOTE:** Examples of leak detection fluids are:
  - » bubble method
  - » fluorescent method agents.
  - » If a leak is suspected, all open flames shall be removed/extinguished.

If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. Removal of refrigerant shall be according to Clause DD.9 of 60335-2-40.

### 7.3E REFRIGERANT REMOVAL AND EVACUATION

When breaking into the refrigerant circuit to make repairs - or for any other purpose - conventional procedures shall be used. However, for FLAMMABLE REFRIGERANTS it is important that best practice is followed since flammability is a consideration. The following procedure shall be adhered to:

- remove refrigerant;
- purge the circuit with inert gas (optional for A2L);
- evacuate (optional for A2L);
- purge with inert gas (optional for A2L);
- open the circuit by cutting or brazing.
- The REFRIGERANT CHARGE shall be recovered into the correct recovery cylinders. Compressed air or oxygen shall not be used for purging refrigerant systems.
- Ensure that the outlet for the vacuum pump is not close to any POTENTIAL IGNITION SOURCES and that ventilation is available.

### 7.3F CHARGING PROCEDURES

In addition to conventional charging procedures, the following requirements shall be followed:

- Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimize the amount of refrigerant contained in them.
- Cylinders shall be kept in an appropriate position according to the instructions.
- Ensure that the REFRIGERATING SYSTEM is grounded prior to charging the system with refrigerant.
- Label the system when charging is complete (if not already).
- Extreme care shall be taken not to overfill the REFRIGERATING SYSTEM.
- Prior to recharging the system, it shall be pressure-tested with the appropriate purging gas. The system shall be leak-tested on completion of charging but prior to commissioning. A follow up leak test shall be carried out prior to leaving the site.

## 7.4 TROUBLESHOOTING

### Unit Test to determine problem:

1. Detach any exterior control wiring by removing terminal block but jump both FLOAT terminals together.
2. Reinstall terminal block into the control.
3. Plug unit in to known good power outlet. 110-120 VAC.
4. Power unit on by pressing power button on top of control.
5. Make sure the Terminal Control light is NOT illuminated. Press button to change.
6. Press down arrow to set the unit below 20% until "on" is displayed. This will force the unit on.
7. Listen for the fan to turn on almost immediately.
8. Wait 1 to 2 minutes for the compressor to turn on.
9. If these tests work, the problem is most likely in the control or field wiring.

### Neither fan nor compressor running. Dehumidification is being called for. No fan call.

1. Unit unplugged or no power to outlet.
2. Humidity control set too high.
3. Loose connection in internal or control wiring.
4. Bad control or power board.
5. Defective control transformer.

### Compressor is not running. Dehumidification is being called for. No fan call.

1. Defective compressor run capacitor.
2. Loose connection in compressor circuit.
3. High pressure switch open or unplugged.
4. Defective compressor.
5. Compressor relay defective or unplugged.
6. Temp & RH sensor reading above 120°F or below 40°F, or sensor is bad or unplugged.

### Compressor cycles on and off. Dehumidification is being called for. No fan call.

1. Low ambient temperature and/or humidity causing unit to cycle through defrost mode.
2. Evaporator temp sensor bad or unplugged.
3. Defective compressor.
4. High pressure switch defective.
5. Dirty air filter(s) or air flow restricted.
6. Bad control or power board.

### Fan is not running. Dehumidification or fan is being called for.

1. Loose connection in fan circuit.
2. Obstruction prevents fan impeller rotation.
3. Defective fan.
4. Bad control or power board.

**Unit removes some water, but not as much as expected.**

1. Air temperature and/or humidity have dropped.
2. Humidity meter and or thermometer used are out of calibration.
3. Unit has entered defrost cycle.
4. Air filter dirty.
5. Low refrigerant charge.
6. Air leak (eg. loose cover or ducting leaks).
7. Defective compressor.
8. Restrictive ducting.
9. Evaporator temp sensor bad or unplugged.
10. Temp and RH sensor off calibration. Reading lower than actual.

**Low dehumidification capacity (evaporator is frosted continuously). Dehumidification is being called for.**

1. Evaporator temp sensor bad or unplugged.
2. Low refrigerant charge.
3. Dirty air filter(s) or air flow restricted.
4. Excessively restrictive ducting connected to unit.

**Filter Change Light illuminated (too frequently):**

1. Change filter if dirty.
2. Hold filter change button to reset filter life hours.

**7.5 REFRIGERANT CHARGING**

If the refrigerant charge is lost due to service or a leak, a new charge must be accurately weighed in. If any of the old charge is left in the system, it must be recovered before weighing in the new charge. Refer to the unit nameplate for the correct charge weight and refrigerant type.

## 7.6 IMPELLER FAN REPLACEMENT

The motorized impeller fan is a unitary assembly consisting of the motor and impeller fan. If defective, the complete assembly must be replaced.

1. Unplug the power cord.
2. Remove the access panel, and top panel.
3. Remove the screws attaching the impeller fan support bracket to the base.
4. Disconnect the impeller fan leads inside the electric box.
5. Remove fan/bracket assembly by removing 3 screws from the bracket and inlet ring assembly.
6. Remove the defective impeller fan from the bracket and replace with it with the new impeller fan.
7. Reassemble the new impeller fan by reversing the above procedure. Note: There are two pins on the backside of the cabinet that must align with the two holes in the impeller fan support bracket.

## 7.7 COMPRESSOR/CAPACITOR REPLACEMENT

This compressor is equipped with a run capacitor, but no start capacitor or start relay.

### 7.7A CHECKING COMPRESSOR MOTOR CIRCUITS

Perform the following tests if the impeller fan runs but the compressor does not with a call for dehumidification.

1. Remove the cabinet side to gain access to the electrical components.
2. Plug in the unit and turn the humidity control to ON. Check for volts from compressor black wires on compressor relay to white wire on compressor capacitor using an AC voltmeter.
  - 2.1 If correct voltage is present, go to next step.
  - 2.2 If no voltage, there may be a loose connection in the compressor circuit. Test each component for continuity. See the appropriate section if a defect is suspected.
3. Unplug the unit and then disconnect the connector from the side of the compressor. Using an ohmmeter, check continuity between the points listed below.
4. Compressor terminals C and S: No continuity indicates an open start winding. The compressor must be replaced. Normal start winding resistance is 3 to 7 ohms.
5. Compressor terminals C and R: No continuity indicates an open run winding. The compressor must be replaced. Normal run winding resistance is .5 to 2 ohms.
6. Compressor terminal C and compressor case: Continuity indicates a grounded motor. The compressor must be replaced.
7. Disconnect the wires from the run capacitor. The capacitor is shorted and must be replaced if continuity exists between any terminal and ground.
8. Using capacitor or MFD setting on meter test between both capacitor terminals. Compare reading to capacitor spec on capacitor.
9. If the above test pass but the compressor does not work, the compressor has an internal mechanical defect and must be replaced.

### 7.7B REPLACING A BURNT COMPRESSOR

The refrigerant and oil mixture in a compressor is chemically very stable under normal operating conditions. However, when an electrical short occurs in the compressor motor, the resulting high temperature arc causes a portion of the refrigerant oil mixture to break down into carbonaceous sludge, a very corrosive acid, and water. These contaminants must be carefully removed otherwise even small residues will attack replacement compressor motors and cause failures.

The following procedure is effective only if the system is monitored after replacing the compressor to insure that the clean up was complete.

1. This procedure assumes that the previously listed compressor motor circuit tests revealed a shorted or open winding.
2. Remove and properly dispose of the system charge. DO NOT vent the refrigerant or allow it to contact your eyes or skin.
3. Remove the burned out compressor. Use rubber gloves if there is any possibility of contacting the oil or sludge.
4. To facilitate subsequent steps, determine the type of burn out that occurred. If the discharge line shows no evidence of sludge and the suction line is also clean or perhaps has some light carbon deposits, the burn out occurred while the compressor was not rotating. Contaminants are therefore largely confined to the compressor housing. A single installation of liquid and suction line filter/driers will probably clean up the system.

If sludge is evident in the discharge line, it will likely be found in the suction line. This indicates the compressor burned out while running. Sludge and acid have been pumped throughout the system. Several changes of the liquid and suction filter/driers will probably be necessary to cleanse the system.

5. Correct the system fault that caused the burn out. Consult the factory for advice.
6. Install the replacement compressor with a new capacitor and an oversized liquid line filter.  
In a running burn out, install an oversized suction line filter/drier between the accumulator and compressor. Thoroughly flush the accumulator with refrigerant to remove all trapped sludge and to prevent the oil hole from becoming plugged. A standing burn out does not require a suction line filter/drier.
7. Evacuate the system with a good vacuum pump and accurate vacuum gauge. Leave the pump on the system for at least an hour.
8. Operate the system for a short period of time, monitoring the suction pressure to determine that the suction filter is not becoming plugged. Replace the suction filter/drier if pressure drop occurs. If a severe running burn out has occurred, several filter/driers may have to be replaced to remove all of the acid and moisture.

**NOTE: NEVER USE THE COMPRESSOR TO EVACUATE THE SYSTEM OR ANY PART OF IT.**

### 7.7C REPLACING A COMPRESSOR, NON BURN OUT

Remove the refrigerant from the system. Replace the compressor and liquid line filter/drier. Charge the system to 50 PSIG and check for leaks. Remove the charge and weigh in the refrigerant quantity listed on the nameplate. Operate the system to verify performance.

## 7.8 REMOTE CONTROLS

The Quest 205 dehumidifier is controlled by devices mounted on a panel that is remote from the unit. You may or may not have the devices listed below depending on the model of the remote hygrostat you purchased. If the Quest 205 dehumidifier fails to operate as desired, always check the settings of the controls to ensure that they are correct. Check that the controls are receiving 24VAC from the Quest 205 Dehumidifier. Check the connections between the Quest 205 dehumidifier, the hygrostat, and the field control wiring.

### 7.8A HUMIDITY CONTROL

The humidity control is an adjustable switch that closes when the relative humidity of the air in which it is located rises to the set point. It opens when the RH drops 4 to 6% below the set point. If the Quest 205 dehumidifier does not run, try turning the humidity control Down using arrow on control pad. If it then runs, the humidity control is out of calibration or the RH is below setpoint.

## 7.9 DEFROST SYSTEM

The Quest 205 Dehumidifier is equipped with an automatic defrost mechanism. If the Quest 205 Dehumidifier operates in conditions that develop frost on the evaporator, it will sense the frost build-up and automatically defrost the evaporator. The Quest 205 Dehumidifier may not appear to be operating correctly during the defrost sequence, but once the defrost sequence is completed, the Quest 205 Dehumidifier will resume dehumidifying.

The evaporator temperature sensor is installed into the center of the evaporator coil. It will automatically shut the compressor off if the temperature drops due to excessive frost formation on the evaporator coil. The impeller fan will continue to run, causing air to flow through the evaporator coil and melt the ice. When the ice has melted, the evaporator temperature will rise, and the control will restart the compressor.

## 7.10 CONDENSATE PUMP KIT

An optional condensate pump kit is available from the factory for use with the Quest 205 Dehumidifier. Condensate is automatically pumped to a remote location when the water level in the pump's reservoir rises to close the float switch.

The pump also contains a safety float switch. The white leads from this switch extend from beneath the pump cover. These leads should be extended to the FLOAT terminals on the terminal block and the factory float jumper removed. If the pump fails, the safety switch opens causing the compressor to stop and water production to cease before the reservoir overflows. E4 will be displayed on the control panel. The Quest 205 Dehumidifier will not dehumidify until this switch closes.

A warranty certificate has been enclosed with this unit; read it before any repair is initiated. If a warranty repair is required, call the factory first at 1-877-420-1330 for warranty claim authorization and technical assistance.

### 8. QUEST 205 ERROR CODES

MACHINE DISPLAY	NAME	POSSIBLE CAUSE(S)	TROUBLESHOOTING	SERVICE NEEDED
Error code "E1"	RH SENSOR ERROR	<ol style="list-style-type: none"> <li>Broken sensor</li> <li>Unplugged sensor</li> </ol>	<ul style="list-style-type: none"> <li>Dehumidifier fan will circulate air for 1 minute.</li> <li>Dehumidifier compressor will activate for 15 minutes.</li> <li>This process will repeat every 15 minutes.</li> </ul>	No Displays E1, but keeps running.
Error code "E2"	LOW DEWPOINT; 24V SHORT	<ol style="list-style-type: none"> <li>Dewpoint below 40°F</li> <li>Off calibration Humidity/Temp sensor</li> </ol>	<ul style="list-style-type: none"> <li>Dehumidifier will circulate air for 50 seconds every 15 minutes.</li> <li>Dehumidifier will not operate until incoming air dew point reads above 40°F</li> </ul>	No
Error code "E3"	LOW REFRIGERANT	<ol style="list-style-type: none"> <li>Refrigeration leak</li> <li>Evaporator coil temp too high during extended operation</li> </ol>	<ul style="list-style-type: none"> <li>Dehumidifier will go into lock-out mode for 1 hour and then attempt to activate compressor.</li> </ul>	Yes
Error code "E4"	FLOAT SWITCH TRIPPED	<ol style="list-style-type: none"> <li>Tripped float switch</li> <li>24V is shorted to Common</li> <li>Terminal block unplugged from unit</li> </ol>	<ul style="list-style-type: none"> <li>The compressor and fan in the dehumidifier will remain off until the connection is fixed or the water event that activated the switch is resolved.</li> </ul>	Yes
Error code "E5"	COIL TEMPERATURE SENSOR	<ol style="list-style-type: none"> <li>Broken sensor</li> <li>Loose connection</li> </ol>	<ul style="list-style-type: none"> <li>Dehumidifier will go into lock-out mode for 1 hour and then activate compressor for 15 minutes</li> <li>After the compressor runs for 15 minutes, the unit will go into defrost mode for 30 minutes.</li> </ul>	No
Error code "E6"	TEMPERATURE TOO HIGH	<ol style="list-style-type: none"> <li>Sensor reading incoming air temp is over 120°F</li> <li>Broken sensor</li> </ol>	<ul style="list-style-type: none"> <li>Dehumidifier will circulate air for 15 minutes every hour.</li> <li>Dehumidifier will not operate until incoming air temp sensor reads below 120°F</li> </ul>	No
Error code "E7"	TEMPERATURE TOO LOW	<ol style="list-style-type: none"> <li>Sensor reading incoming air temp is under 40°F</li> <li>Broken sensor</li> </ol>	<ul style="list-style-type: none"> <li>Dehumidifier will circulate air for 50 seconds every 15 minutes.</li> <li>Dehumidifier will not operate until incoming air temp reads above 40°F.</li> </ul>	No
Error code "E8"	COMM ERROR	<ol style="list-style-type: none"> <li>There is a cable connection issue</li> <li>Defective power board</li> </ol>	<ul style="list-style-type: none"> <li>The power board will continue to run unit using the last settings but changes to operation cannot be made until communication is restored.</li> </ul>	Yes, if operational changes are required.
Error code "E9"	HIGH PRESSURE CUT-OUT	<ol style="list-style-type: none"> <li>High pressure sensor has tripped due to excess pressure in the refrigeration system</li> <li>Incoming air temp is too high</li> </ol>	<ul style="list-style-type: none"> <li>Power board will be in system protection mode.</li> </ul>	Yes, if the error persists when operating below 90°F incoming air

## 9. DECOMMISSIONING

Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its details. It is recommended good practice that all refrigerants are recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of recovered refrigerant. It is essential that electrical power is available before the task commences.

1. Become familiar with the equipment and its operation.
2. Isolate system electrically.
3. Before attempting the procedure, ensure that:
  - » mechanical handling equipment is available, if required, for handling refrigerant cylinders;
  - » all personal protective equipment is available and being used correctly;
  - » the recovery process is supervised at all times by a competent person;
  - » recovery equipment and cylinders conform to the appropriate standards.
4. Pump down refrigerant system, if possible.
5. If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
6. Make sure that cylinder is situated on the scales before recovery takes place.
7. Start the recovery machine and operate in accordance with instructions.
8. Do not overfill cylinders (no more than 80 % volume liquid charge).
9. Do not exceed the maximum working pressure of the cylinder, even temporarily.
10. When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
11. Recovered refrigerant shall not be charged into another REFRIGERATING SYSTEM unless it has been cleaned and checked.

### 9.1 LABELLING DECOMMISSION MACHINES

Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed. For appliances containing FLAMMABLE REFRIGERANTS, ensure that there are labels on the equipment stating the equipment contains FLAMMABLE REFRIGERANT.

### 9.2 REFRIGERANT RECOVERY

When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.

When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge is available. All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure-relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.

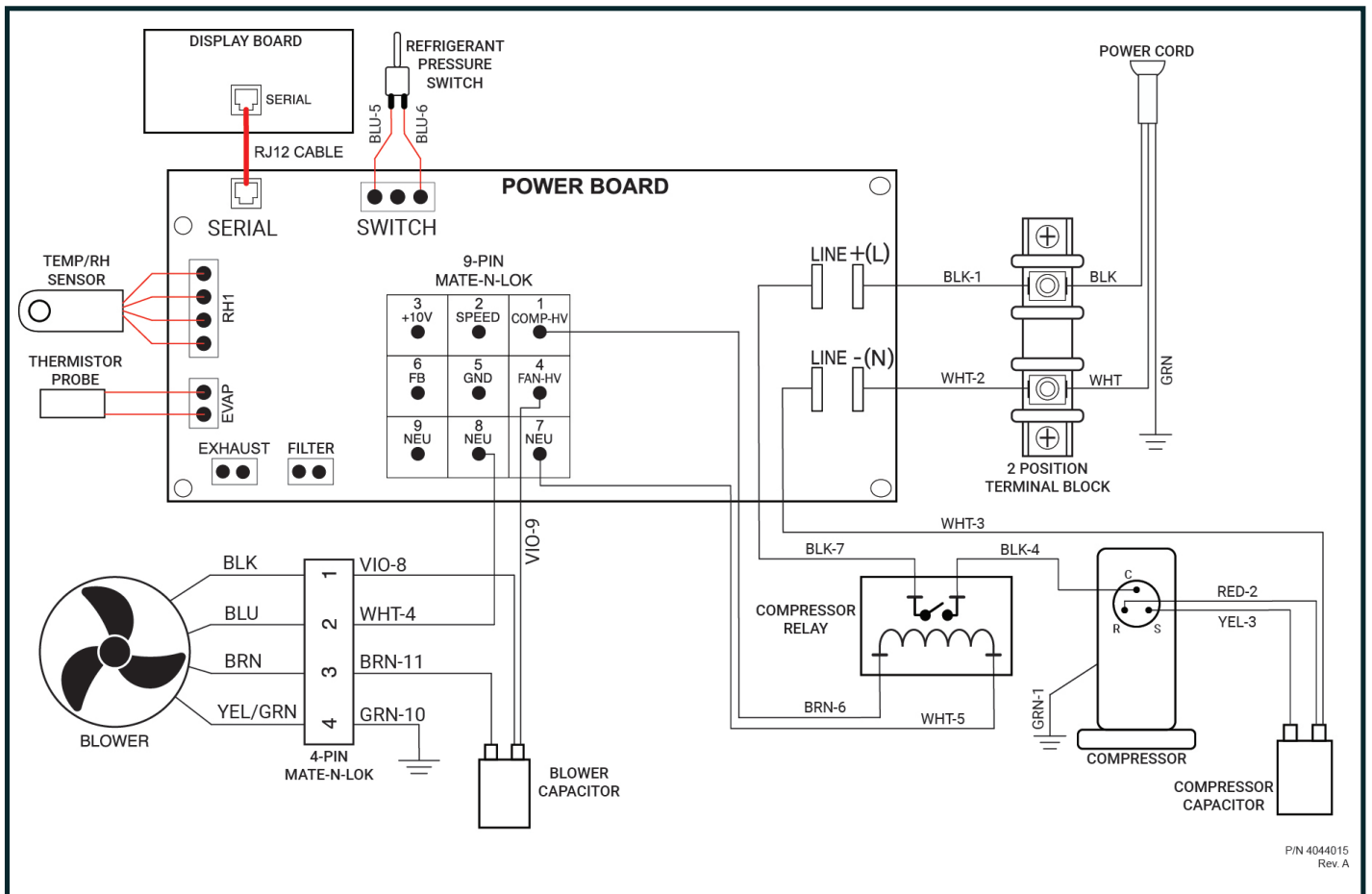
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The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of all appropriate refrigerants including, when applicable, FLAMMABLE REFRIGERANTS. In addition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be complete with leak-free disconnect couplings and in good condition. Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release. Consult manufacturer if in doubt.

The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant waste transfer note arranged. Do not mix refrigerants in recovery units and especially not in cylinders.

If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that FLAMMABLE REFRIGERANT does not remain within the lubricant. The evacuation process shall be carried out prior to returning the compressor to the suppliers. Only electric heating to the compressor body shall be employed to accelerate this process. When oil is drained from a system, it shall be carried out safely.

### WIRING DIAGRAM OF THE QUEST 205 DEHUMIDIFIER



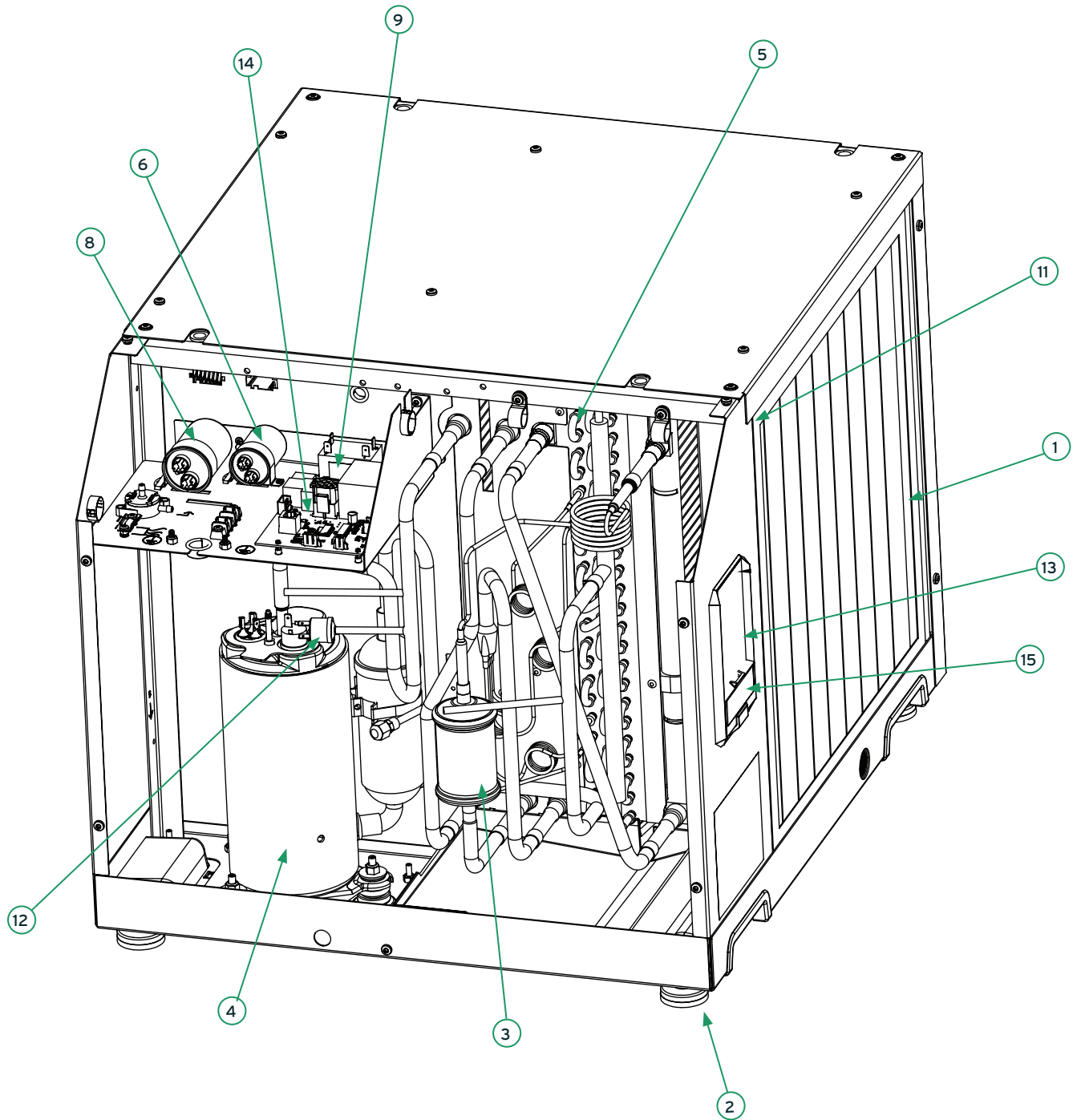
### SERVICE PARTS LIST FOR QUEST 205

Item	Part No	Qty	Description	Item	Part No	Qty	Description
1	4042787	1	MERV-13 Air Filter 2x18x18"	9	1970010	1	Relay Compressor
2	4042963	4	Leveling Foot	10	4034716-13	1	Thermistor Probe*
3	4042468	1	Filter/Drier	11	4042061	1	Temp RH Sensor
4	4043975	1	Compressor	12	4043292	1	High Pressure Switch
5	4043922	1	Coil Cassette Assembly	13	4041909	1	Digital Display Board
6	4033032-10	1	Fan Capacitor 16 MFD	14	4044055	1	Control Board
7	4043883	1	Impeller Assy, 120V*	15	4042009	1	Cover, UI, 24VAC
8	4033032-06	1	Capacitor, 50MFD, 370V,OIL				

\* Not pictured

### OPTIONAL PARTS LIST

Part No	Qty	Description	Part No	Qty	Description
4022220	1	Pump Kit (110-120V)	4028531	1	DEH 3000R Control, Remote
4043235	1	Supply & Return Duct Kit			



## DO NOT DISCARD

### IMPORTANT WARRANTY INFORMATION

**WARRANTOR:**

Therma-Stor LLC  
4201 Lien Rd  
Madison, WI 53704  
Telephone: 1-800-533-7533

**REGISTER YOUR NEW DEHUMIDIFIER**  
using the serial number and part number at  
[www.thermastor.com/registration](http://www.thermastor.com/registration)  
or scan code



**WHO IS COVERED:** This warranty extends only to the original end-user of the Quest 205 dehumidifier, and may not be assigned or transferred.

**FIRST YEAR WARRANTY:** Therma-Stor LLC warrants that, for one (1) year the Quest 205 dehumidifier will operate free from any defects in materials and workmanship, or Therma-Stor LLC will, at its option, repair or replace the defective part(s), free of any charge.

**SECOND THROUGH FIFTH YEAR WARRANTY:** Therma-Stor LLC further warrants that for a period of five (5) years, the condenser, evaporator, and compressor of the Quest 205 Dehumidifier dehumidifier will operate free of any defects in material or workmanship, or Therma-Stor LLC, at its option, will repair or replace the defective part(s), provided that all labor and transportation charges for the part(s) shall be borne by the end-user.

**END-USER RESPONSIBILITIES:** Warranty service must be performed by a Servicer authorized by Therma-Stor LLC. If the end-user is unable to locate or obtain warranty service from an authorized Servicer, he should call Therma-Stor LLC at the above number and ask for the Therma-Stor LLC Service Department, which will then arrange for covered warranty service. Warranty service will be performed during normal working hours.

The End-user must present proof of purchase (lease) upon request, by use of the warranty card or other reasonable and reliable means. The end-user is responsible for normal care. This warranty does not cover any defect, malfunction, etc. resulting from misuse, abuse, lack of normal care, corrosion, freezing, tampering, modification, unauthorized or improper repair or installation, accident, acts of nature or any other cause beyond Therma-Stor LLC's reasonable control.

**LIMITATIONS AND EXCLUSIONS:** If any Quest 205 Dehumidifier part is repaired or replaced, the new part shall be warranted for only the remainder of the original warranty period applicable thereto (but all warranty periods will be extended by the period of time, if any, that the Quest 205 Dehumidifier is out of service while awaiting covered warranty service).

**UPON THE EXPIRATION OF THE WRITTEN WARRANTY APPLICABLE TO THE QUEST DEHUMIDIFIER OR ANY PART THEREOF, ALL OTHER WARRANTIES IMPLIED BY LAW, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL ALSO EXPIRE. ALL WARRANTIES MADE BY THERMA-STOR LLC ARE SET FORTH HEREIN, AND NO CLAIM MAY BE MADE AGAINST THERMA-STOR LLC BASED ON ANY ORAL WARRANTY. IN NO EVENT SHALL THERMA-STOR LLC, IN CONNECTION WITH THE SALE, INSTALLATION, USE, REPAIR OR REPLACEMENT OF ANY QUEST DEHUMIDIFIER OR PART THEREOF BE LIABLE UNDER ANY LEGAL THEORY FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES INCLUDING WITHOUT LIMITATION WATER DAMAGE (THE END-USER SHOULD TAKE PRECAUTIONS AGAINST SAME), LOST PROFITS, DELAY, OR LOSS OF USE OR DAMAGE TO ANY REAL OR PERSONAL PROPERTY.**

Some states do not allow limitations on how long an implied warranty lasts, and some do not allow the exclusion or limitation of incidental or consequential damages, so one or both of these limitation may not apply to you.

**LEGAL RIGHTS:** This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

