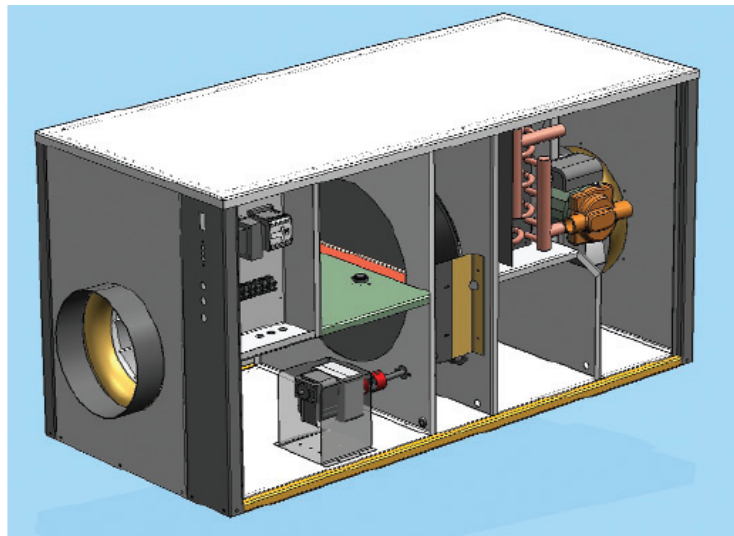


NOVELAIRE *Comfort* PRODUCTS
creating the great indoors.

COMFORT DRY™ 250

advanced humidity control
hot water based dehumidifier

User's Information Manual



IMPORTANT: This document is customer property and is to remain with this unit.
Please return upon completion of work.

Because the manufacturer has a policy of continuous product improvement, it reserves the right to change specifications and design without notice. The installation and servicing of the equipment referred to in this booklet should be done by a qualified, experienced technician.

IMPORTANT: Read and follow all safety and operating instructions before first use of this product.

WARNING: HAZARDOUS VOLTAGE - DISCONNECT POWER BEFORE SERVICING

All phases of this installation must comply with the National, State & Local codes. In the absence of local codes, the installation must conform with National Electric Code - ANSI/NFPA No. 70 or Latest Revision, and the National Fuel Gas Code ANSI Z223.1.

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INTRODUCTION

Please read this manual carefully before using the ComfortDry 250. Doing so will provide a better understanding of how humidity control equipment works and will assure maximum benefit from the equipment.

If there are any questions about this manual or the ComfortDry 250, please call (225) 924-0427 and ask to speak with a field service technician or engineer.

INSPECTION

When the ComfortDry 250 arrives, check immediately for signs of shipping damage. If you visually notice any physical damage, please contact us immediately. If the equipment is damaged, do not discard the original packaging or attempt to install or operate the system.

SPECIFICATIONS

Model:	ComfortDry 250
Electrical:	120V AC, 15A Circuit 1 Phase, 60 HZ FLA 5.2 Amps RLA 2.9 Amps
Control:	24 VAC
Process Volume:	300 CFM - nominal
Regeneration Volume:	300 CFM - nominal
Maximum Weight:	137 Lbs.
Capacity:	105 pints/day @ 80°F / 60% RH
Desiccant Wheel:	NAC 320 x 100mm

The ComfortDry 250 is designed for Residential or Commercial use, and it is recommended that it be mounted in a permanent location.

INFORMATION FOR THE HOMEOWNER

The ComfortDry 250 was designed and manufactured to provide comfort and improve indoor air quality through the control of indoor relative humidity. The ComfortDry 250 will operate independently of your home's HVAC system to control humidity. The ComfortDry 250 unit is designed to utilize any hot water source to provide the necessary energy to reactivate the internal desiccant wheel which is the heart of the unit. The following information will help you understand the operation of the ComfortDry 250.

What range of humidity can I expect?

The ComfortDry 250 controls humidity between the ideal relative humidity range of 45% and 50%. There may be brief periods of time when relative humidity exceeds 50%. Any high humidity readings are usually the result of a change in the typical conditions of a home. Leaving a door open for an extended period of time,, a rainstorm, or a significant amount of traffic through the house are examples of conditions that would cause temporary high humidity levels. The ComfortDry 250 will begin operating when the humidistat signals that the humidity setting has been exceeded and will quickly bring the relative humidity back down to the desired set point.

What is the function of the humidistat?

The humidistat allows the homeowner to establish the desired relative humidity level. The device sends a signal to the ComfortDry 250 to operate when the relative humidity level has been exceeded by the indoor conditions. The humidistat works much like a thermostat but instead of temperature, the device senses relative humidity.

Should I change the relative humidity setting as outdoor relative humidity increase or decreases?

The ideal range of indoor relative humidity according to several standards is between 45% and 50%. It is recommended that the humidistat be set at 50% or slightly lower and no further changes be made. The ComfortDry 250 will operate as required to meet changes in the interior relative humidity.

How does the ComfortDry 250 reduce relative humidity in my home?

The ComfortDry 250 is a technologically advanced environmental control system that incorporates a desiccant wheel for the removal of moisture and any hot water source to regenerate the desiccant wheel so the process of moisture removal can be ongoing. Desiccant wheels have been used for decades in commercial applications but only now in

the ComfortDry 250 are they available for residential applications.

What changes will I notice once the ComfortDry 250 is in operation?

Similar to starting your furnace for the first time of the heating season, you may notice initially a faint odor when the unit commences operation. The wheel (desiccant wheel) is very absorptive and may pick-up odors in shipment and storage. The odor you may experience will be eliminated once the unit operates for 24 to 48 hours.

Depending on the size of the house, the ComfortDry 250 will stabilize the interior relative humidity within 3 to 5 days. To achieve a consistent interior relative humidity, not only does moisture need to be removed from the air, but also from the carpet, furnishings, drapes, and walls. Once the interior has been stabilized you will notice that floors and countertops dry faster, moisture does not appear on the interior of windows, your HVAC system will operate less and your home is more comfortable.

Can I change the thermostat setting to a higher set point?

Yes. Individuals are more comfortable at higher temperatures if the relative humidity level is maintained between 45% and 50%. It is recommended that you increase the thermostat setting according to your comfort needs.

How much energy usage can I expect from the ComfortDry 250?

The amount of hot water consumption is related to the hours of operation. In a typical 2,500 square foot home in the southern United States, a homeowner should expect the ComfortDry 250 to operate between 10 to 12 hours daily during the summer and 5 to 6 hours daily during the remainder of the year. As mentioned earlier, a homeowner should expect a large portion of the increased gas consumption to be offset by the HVAC system operating fewer hours, provided you raise the thermostat setting. Controlling humidity allows the homeowner to raise the set point temperature without sacrificing comfort.

What maintenance is required for the ComfortDry 250?

The ComfortDry 250 requires very little maintenance. As with all air moving systems, it is very important to change the regeneration and process air filters. These filters should be installed at the time of installation. It is important to make sure they are installed in a location that can be easily reached for filter changes. Filters should be at least 12" x 12" x 1" deep pleated filters.

Conclusion

This information has been provided to explain the operation of the ComfortDry 250. The product will produce excellent results in controlling indoor humidity and improving your home's indoor air quality. If you have further questions regarding the ComfortDry 250, please contact our customer service department.

HOW IT WORKS

The ComfortDry 250 effectively removes moisture at normal temperatures without the freeze-up problems inherent with refrigerant dehumidifiers and/or conventional air conditioners. This enables the unit to maintain lower relative humidity and to dry deeper, thereby having a more significant effect on carpets, floors, walls, contents, and structural materials. This capability also inhibits mold and mildew growth caused by moist or humid conditions.

The “heart” of the ComfortDry 250 is the desiccant wheel (see wheel specs). The detail in Fig. 1 shows that the wheel is made with a series of air passages or channels. Air can be forced through these channels in either direction.

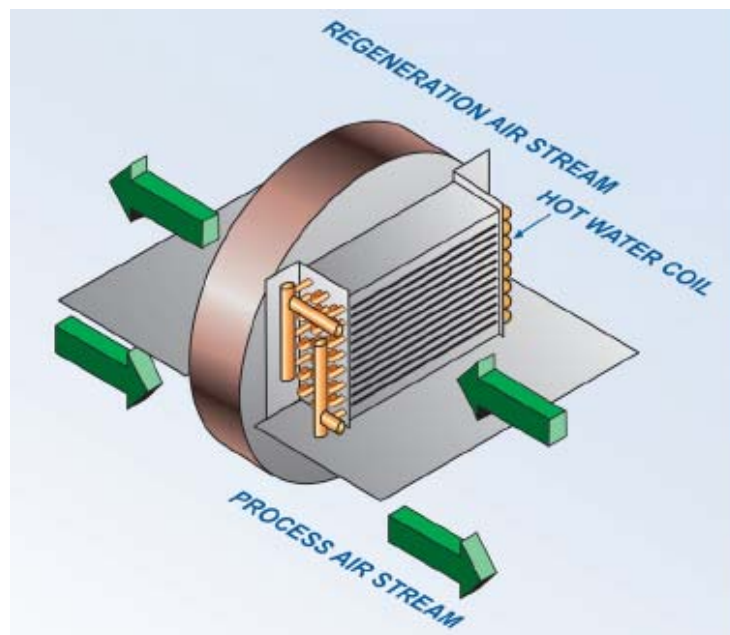


Figure 1

The desiccant wheel is made entirely of a desiccant/fiber material. Desiccants are extraordinary substances, having a high capacity for moisture adsorption, while being easily regenerated. When damp air passes through the desiccant wheel, it adsorbs the moisture into the desiccant material within the wheel and dries the air. Conversely, when desiccants are heated (also called regeneration), they release the moisture and become regenerated.

The ComfortDry 250 utilizes two air streams through the wheel to complete this cycle: the Process Air Stream and the Regeneration Air Stream. Again, Figure 1 illustrates how the cycle works.

In the Process Air Stream, damp air is drawn through the channels in the wheel where the desiccant absorbs most of the moisture in the air. This air, now “dried out”, is then supplied back into the area being dehumidified. As the ComfortDry 250 operates, the

wheel turns very slowly so that a new portion of it is always in the drying zone.

The Regeneration Air Stream is heated by the hot water coil and forced through the wheel at the drying zone. This hot air now causes the desiccants to release the moisture in a vapor form. The moisture is exhausted through the Regeneration Air Outlet. This moist air, also called “Exhaust Air”, is then vented to the outside. At this point, the wheel has been reactivated and the dehumidification cycle is complete.

The Regeneration Air Stream should always be vented to the outside. Process Air Supply may be discharged directly back into the space or ducted to the supply of the air conditioner.

Review of the process:

- Dry air or process air is returned to the room or to the area being dehumidified.
- As the wheel turns; the “wet” area rotates through the drying zone and is exposed to the heated regeneration air stream.
- Moisture in the desiccant is released into the regeneration air stream.
- The regeneration air, with the moisture, is vented to the outside.

OPERATING CONDITIONS

When a desiccant dehumidifier is placed into a humid environment, it will constantly control humidity. The rate at which it reduces the humidity is determined by the capability of the machine, the size of the area, and rate of moisture infiltration.

Performance Capabilities

In all dehumidification systems, the ability to perform is affected by existing humidity and temperature as well as by the size of the area, environmental conditions, and the design and construction of the building. The Figure 2 shows the ComfortDry 250 performance capability.

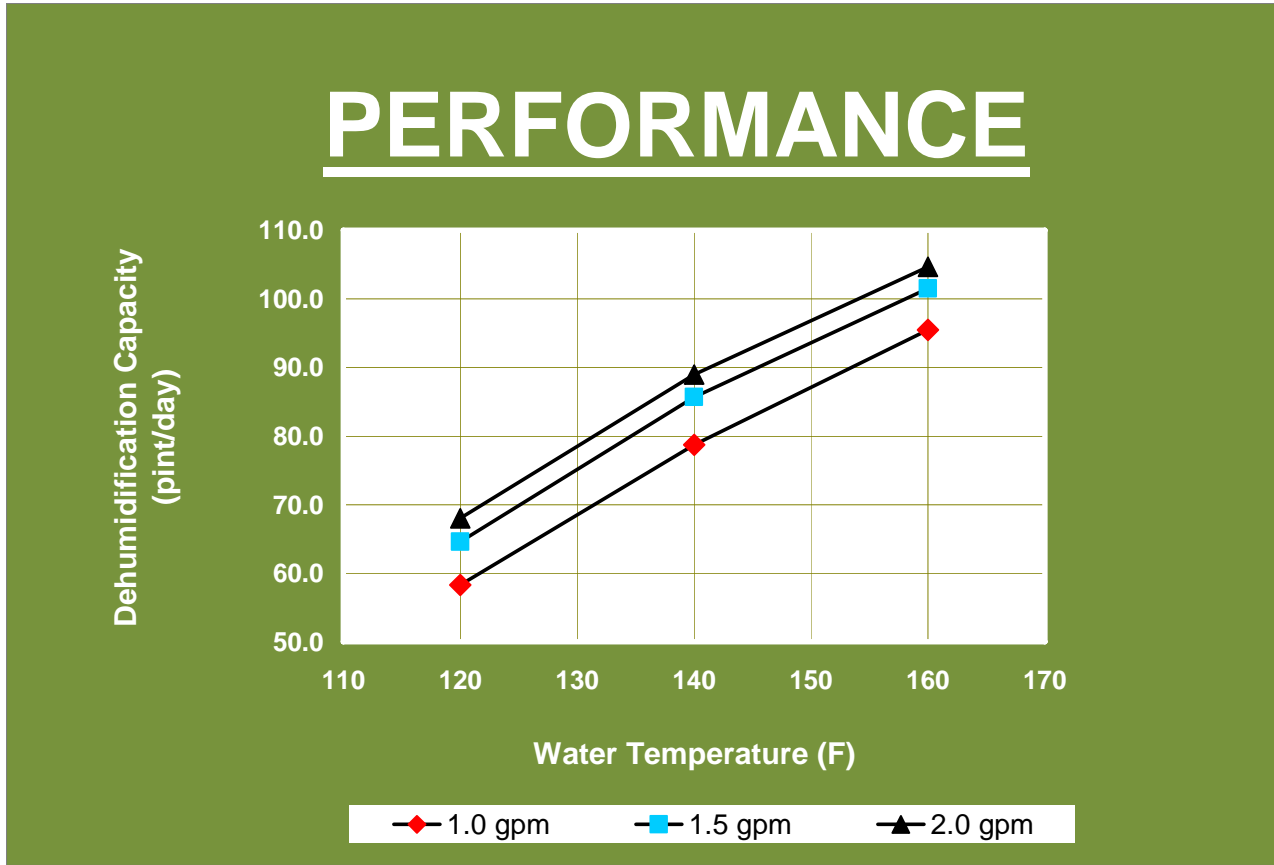


Figure 2

THE NOVELAIRE WHEEL

The dehumidification or desiccant wheels are fabricated from a material suitable of withstanding high temperatures required for regeneration. Wheels are constructed of corrugated synthetic media with a high inorganic content and with a desiccant intimately bound and uniformly and permanently dispersed throughout the matrix structure of the media. The loading of the desiccant on the media is in excess of 65% by weight to provide maximum dehumidification performance for the given wheel size. The desiccant material has a particularly high capacity for moisture when treating incoming air with high relative humidity. The synthetic media provides high temperature resistance, corrosion resistance as well as resistance to any outdoor air conditions. The wheel rim consists of a metal outer band and rigid center aluminum machined hub. The peripheral seal is made from a high temperature resistant silicone that is attached to the cassette housing. The face seal is made from high temperature silicone and presses against the face of the wheel. The cassette is built from light gauge galvanized steel.

The cassette drive motor has an output shaft speed of 2 RPM. Wheel speed is further reduced to approximately 25 RPH.

SAFETY TIPS

The equipment should be serviced by qualified technicians only.

CAUTION!

Prolonged periods of lower humidity levels can over dry wood and other objects; causing shrinking or cracking. This is especially true of objects with large cross sections or objects that dry too quickly. Check humidistat set point regularly.

CAUTION!

Maintaining very low humidity levels in a living space for prolonged periods of time can cause drying of the sinus cavities; increasing the risk of infection. Check humidistat set point.

The ComfortDry 250 is wired for 120 VAC. The unit works with enough voltage and current to cause severe burns or result in death. Always turn off the power before you work inside the unit. Do not work with the electrical parts unless you are a trained electrician.

WARNING!

Do not place the dehumidifier unit outdoors. The cabinet is not weatherproof. If the humidity control unit is mounted outdoors, water may drip into the electrical parts. This may cause an electrical shock hazard.

WARNING!

The two blowers inside the dehumidifier spin very quickly. Your hand may be hurt if you put it inside the blower while it is turning. Keep your hands away from the blowers while the unit is turned on.

CAUTION!

Do not wash the wheel with any solvent. This will permanently damage the wheel.

- **DO NOT** direct fogged chemicals or chemicals of any type into the dehumidifier.
- **DO NOT** insert any implement, tool or device into the dehumidifier when it is operating.
- **DO NOT** attempt any service on the dehumidifier while it is connected to electrical current. This may result in shock.
- **GROUNDING IS REQUIRED.** The unit must be hard wired using wire that meets local building codes for the dehumidifier.

CONTROLS

The ComfortDry 250 is controlled by a remote humidistat that cycles the unit on and off according to a humidity set point. When the humidity in the room or process space is higher than the preset point, the humidistat (in the dehumidifying position) turns on the dehumidification process and the unit begins to dry the air. When the desired humidity level has been reached and the humidistat is satisfied, the unit shuts off.

The ComfortDry 250 should be connected using wiring conforming to local building codes. The unit is not approved for connection to power using an appliance cord. Removal of ground will void the warranty (check your local building codes)

DUCTING AND AIR CIRCULATION

The ComfortDry 250 is designed to be used with ducts for both process air and regeneration air (exhaust air). Even though the exhaust air may feel warm, it is very damp and should always be vented to the outside. It is recommended that the exhaust air duct be less than 25 ft. Greater distances affect the efficiency of the ComfortDry 250 and create the opportunity for condensation to collect. For the same reason, care should also be taken to run the exhaust air duct as straight as possible. All ducting should be insulated to avoid possible condensation during winter time.

All duct connections on the ComfortDry 250 are labeled for correct installation. Take care to match appropriate ducts to corresponding collars.

The objective is to maintain controlled humidity within a space, however; establishment of desired levels of humidity or maintenance of specific humidity should be monitored. This can be done with a thermo-hygrometer and a psychometric chart. Additionally, monitoring of specific humidity helps determine if the correct number of dehumidifiers are being used or if the unit(s) in use are the correct size for the task.

INSTALLATION

Please read the full manual and follow the instructions carefully and completely. Please pay particular attention to the safety instructions and precautions.

Please note:

The dehumidifier shall not be installed directly on carpeting, tile or other combustible material other than wood flooring.

Please allow for adequate clearances for servicing and proper operation and for air openings into the combustion chamber.

The installation must conform to local building codes.

The dehumidifier must be electrically grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, if an external electrical source is utilized.

Stand Alone Configuration

As the diagram shows, the unit is installed independent of the existing AC system. The unit is ducted separately from the main A/C system and relies on its own return and supply air ducts and grills. The return air grill should be equipped with a standard AC filter for easy filter changes. Fresh air intake ducted to the return air is optional. The ComfortDry 250 is controlled by a separate humidistat. Humidity control is separate from temperature control.

Figures 3 and 4 show the typical duct arrangement. As figure 4 shows, the supply duct is typically split to two supply registers located on opposite sides of the home, room, or main floor. Once the home or space comes under humidity control, the humidity will remain fairly stable throughout the entire home, so several supply registers are not required. The supply air is warm but very dry and since the total volume is only 300 cfm, when this is split between two or more supply grills, very little air velocity is felt but the moisture in the space is being removed in a very effective manner.

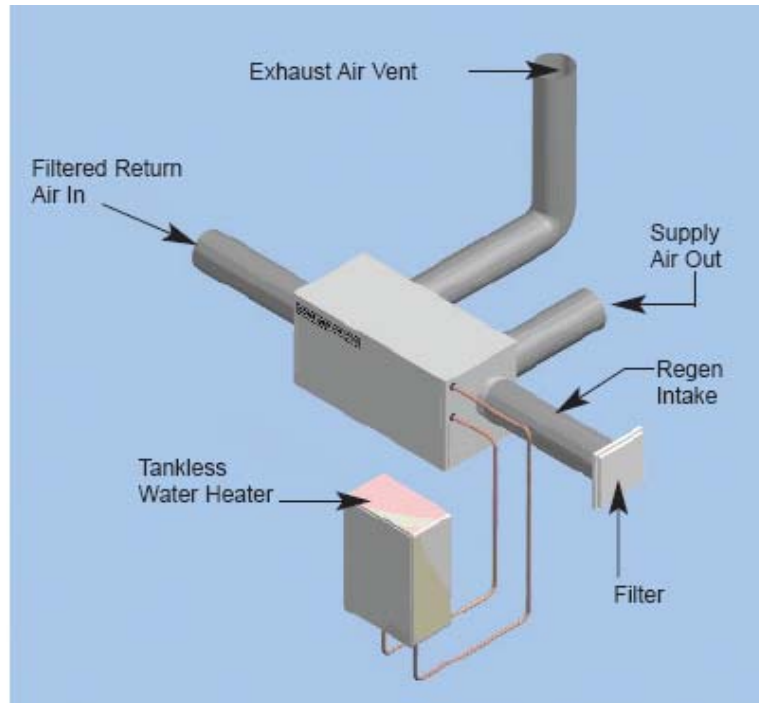


Figure 3

Typical Duct Configuration

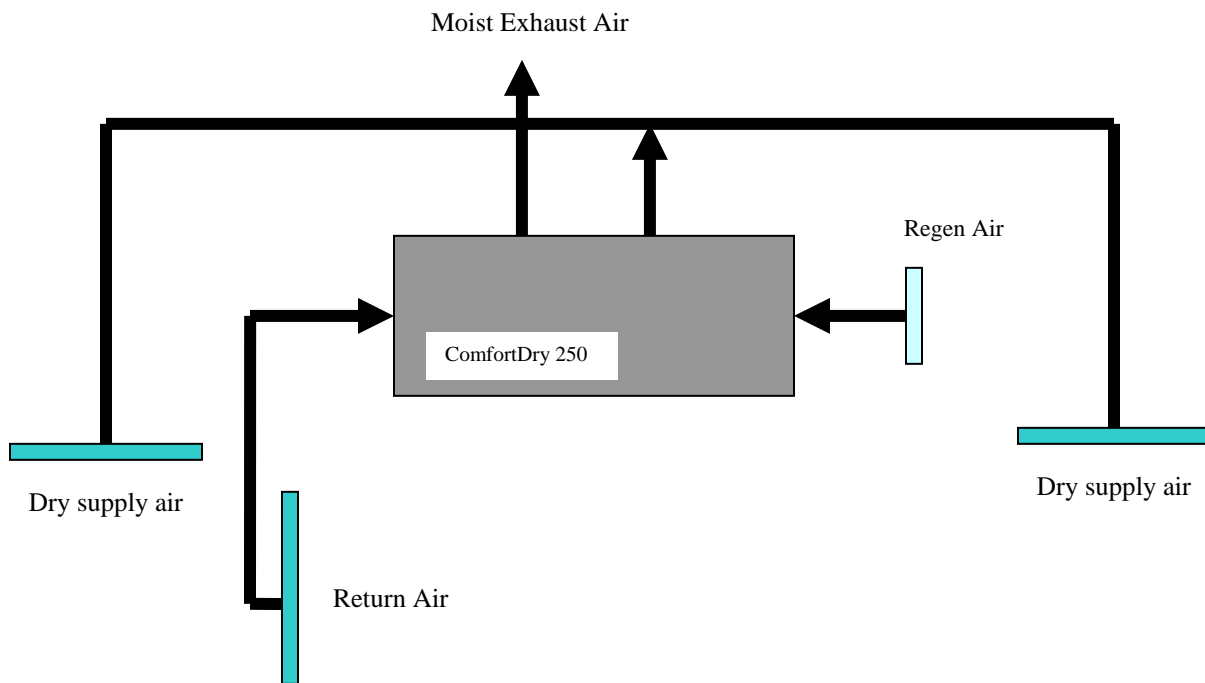


Figure 4

POSITIONING THE ComfortDry 250

Position the unit with adequate clearance on all sides so as to provide adequate access for maintenance services. The unit can be hung with threaded rods and a unistrut bar type system. The unit can also be placed on the attic floor. The unit is not designed for outside installations.

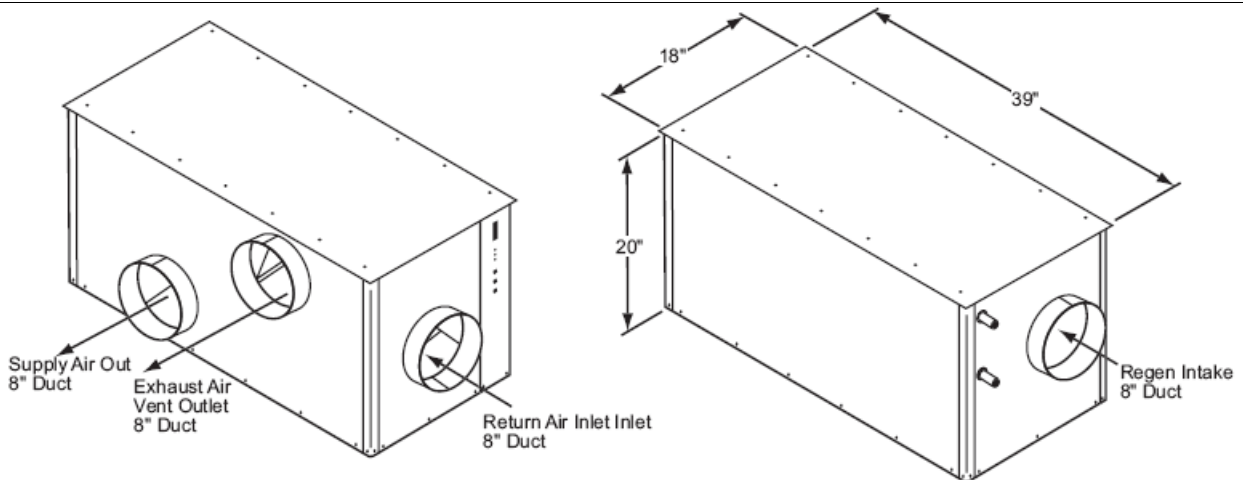
Although the ComfortDry 250 is designed to be used with ducts for Process Air and Regeneration Air, **Regeneration Air Exhaust should always be insulated and vented to the outside.** Exhaust needs to be more than 10 feet from a fresh air intake.

In most cases, the ComfortDry 250 unit will be ducted directly to the area to be conditioned (Standalone diagram). This allows the process air to be drawn from that area, dried, and returned to the same area. As an alternative, you may mix outside air with indoor return air. Outside air must be filtered as there are no internal filters to the ComfortDry 250 unit.

DUCT CONNECTION

Please note:

- ❑ The horizontal portions of the venting system must be supported to prevent sagging and must slope upwards not less than $\frac{1}{4}$ inch per foot from the dehumidifier to the vent terminal.
- ❑ The vent must be installed so as to prevent the accumulation of condensate.
- ❑ Where necessary, provisions for drainage of condensate must be provided.



Connect all ductwork to the ComfortDry 250. Ducts should be set up as follows:

1. Return air inlet:

- Allow 18" clearance if open to surrounding air.
- Use 8 inch diameter duct with an insulated wall. Use of smaller ducting is not recommended. If flexible metal ducting must be used, use the type with a stiff sheet metal wall.
- A standard AC return air grill and discharge grill should be used. The return air grill should be equipped with a standard AC filter for easy filter changes. The duct from the return air grill should be tightly sealed to the appliance casing duct to insure that process air is drawn from the conditioned space and not the space containing the appliance.

2. Supply air out:

- Use 8 inch ducting to connect the discharge directly into the space or supply duct. If ducted directly to the space to be dehumidified (stand alone configuration), a standard AC discharge grill should be used. If ducting is longer than 20 feet, refer to factory for recommendations.
- The supply air out duct should be tightly sealed at the appliance casing to prevent leakage.

3. Regeneration Intake:

- If at all possible, use 8 inch diameter rigid, straight aluminum or rigid galvanized steel duct. No bends should be placed closer than 18" to the regeneration inlet. If flexible metal duct must be used, use the type with a stiff sheet metal wall. Attached a standard AC 12" x 12" filter and filter box to the regen intake duct. Position the filter box to provide for easy access.

4. Exhaust air vent:

- Vent the moist exhaust air with a 8" insulated duct to the outside. If the ComfortDry 250 is positioned in the attic, the moist exhaust air must be vented outside the attic space.
- The regeneration outlet duct should be tightly sealed at the appliance casing to prevent leakage.
- Do not exhaust the dehumidifier into any wall, ceiling, crawl space or a concealed space of a building.
- Keep the exhaust duct as straight and short as possible (25 ft. or less). Exhaust systems longer than the manufacturer's recommendations can reduce performance and extend dehumidification times, affect appliance operation and may collect condensation.
- The exhaust hood on the outside of the house should have a swing out damper to prevent back drafts and entry of wildlife.
- The horizontal portions of the venting system must be supported to prevent sagging and must slope upwards not less than $\frac{1}{4}$ inch per foot from the dehumidifier to the

vent terminal.

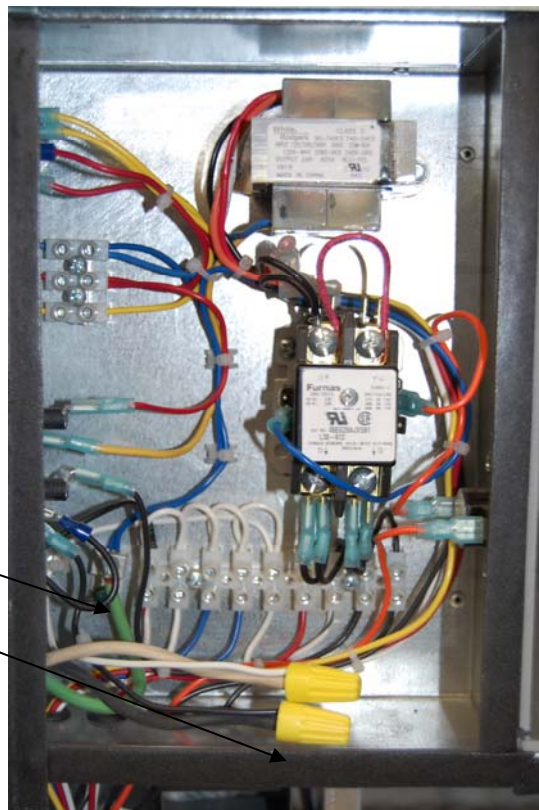
- The vent must be installed so as to prevent the accumulation of condensate.
- Where necessary, provisions for drainage of condensate must be provided.

ELECTRICAL CONNECTION

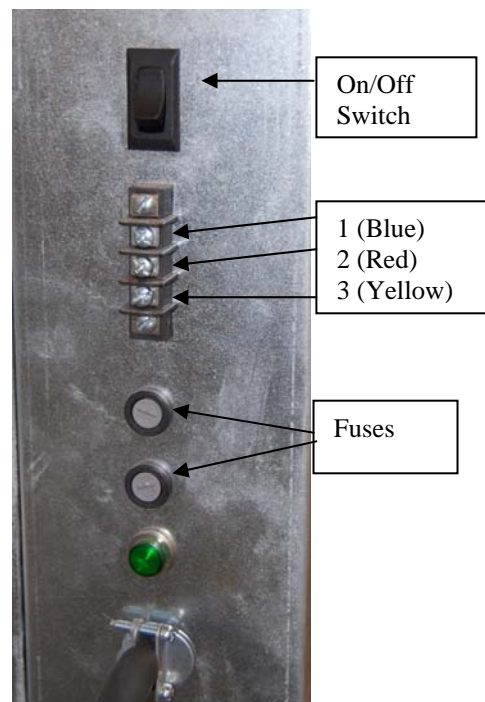
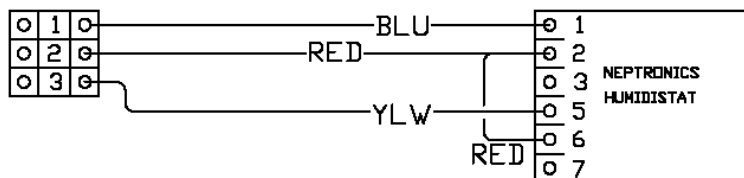
1. When installed, the appliance must be electrically grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70.

2. The unit is designed to have 120 VAC, 60 Hz power connected to the power wires in the electrical box on the end of the unit. (See picture at right. White is neutral and black is hot and green is ground.)

Ground wire is connected to ground lug.
120 VAC is connected to black and white wires with wire nuts.



3. The controls for the unit are connected on the terminal block on the end of the unit. The diagram below shows a typical humidistat connection. Blue is 24 VAC common, Red is 24 VAC, and Yellow is the unit run signal input (24 VAC).



START UP

The ComfortDry 250 unit is designed to start up, once energized, without any further adjustments.

1. Turn the run/off switch to the on position.
2. Make sure that humidistat is powered and run contact is closes. (Terminal 3 on the humidistat terminal block will have 24 VAC when run signal is present.)
3. The fans, pump and desiccant wheel should start running. It will take a few minutes for the unit to heat up and start dehumidifying.
4. If the unit still does not start, refer to Troubleshooting Section of the manual.

GENERAL MAINTENANCE

The ComfortDry 250 humidity control unit requires virtually no maintenance. In order to achieve the best performance check these points on a monthly basis.

AIR FILTERS

For optimum performance, it is recommended that filters be checked and/or changed monthly or as required. We recommend the use of 12"x12"x1 inch thick air filters (minimum). Such filters are commonly used as air conditioning filters. All air entering the dehumidifier (process and regeneration air) must be filtered. DO NOT operate the ComfortDry 250 without filtering the air. Unfiltered air may clog the wheel.

SERVICING THE NOVELAIRE WHEEL

CAUTION! Turn the humidity control unit off before inspecting the wheel or before removing any cabinet panels.

If the wheel appears to be clogged, it may be possible to clean it by vacuuming both surfaces. If vacuuming does not clear the wheel, it may be cleared by using compressed air. Compressed air must be oil free. Do not use a pressure greater than 30 psi.

Be sure to wear OSHA approved eye protection when inspecting or cleaning the wheel.

STORAGE

The ComfortDry 250 humidity control unit may be stored for prolonged periods without affecting performance.

TROUBLESHOOTING

The ComfortDry 250 unit has proved to be very reliable. When service problems do occur they are most often caused by the installation, rather than a malfunction of the unit itself. Some of the most common problems are:

POWER WILL NOT TURN ON:

- Be sure to connect the dehumidifier to a 110 V, 15 amp circuit.
- Check fuses located on the control panel. Fuses must be slow blow type.
- To check the unit without the humidistat, simply connect a jumper wire between terminals 2 (red) and 3 (yellow) on the humidistat terminal block. The unit should run immediately.

POOR DEHUMIDIFYING PERFORMANCE:

- Possible increase in humidity or moisture loads. Check all openings, doors, windows and dehumidifier ducts for leaks.
- Check humidistat setting. We recommend a setting of 50% or slightly lower.
- Plugged air filters are retarding air flow.
- Plugged water line or failed circulating pump. Check temperature leaving water heater and temperature of water pipes to and from the ComfortDry 250. Water temperature should be at least 145 °F going to the ComfortDry 250. Water lines will be cool if water pump has failed or lines are plugged.
- Wheel not turning. The unit has a high exhaust temperature switch that will normally shut the unit down if wheel stops turning. Wheel rotation can be checked by removing the supply out duct or exhaust duct and viewing the wheel.

PROCESS AIR BLOWER NOT WORKING:

- Blower cage may be jammed. Remove any debris.
- Check for loose electrical connections.

REGENERATION AIR BLOWER NOT WORKING:

- As above.
- As a safety measure, the ComfortDry 250 will automatically shut down to prevent overheating if the regeneration blower is not operating or exhaust temperature exceeds 130 °F

LOW AIR FLOW IN REGENERATION AIR DUCT:

- User installed filter may need replacement.
- Clogged wheel. Service the wheel by cleaning the face with a vacuum.

- Blocked exhaust. Check duct for kinks or blockages.
- Run should not exceed 25 ft nor have excessive bends or restrictions.

LOW AIR FLOW IN PROCESS AIR DUCT:

- As above.

BOTH BLOWERS WORK - NO HEAT:

- Insure the water circulation lines are not plugged or closed.
- Insure that the water circulating pump is running.
- Make sure that the circulating pump is not air locked. Water lines may have to be purged of air.

UNIT SHUTS DOWN AFTER INITIAL OPERATION:

- Check circuit breakers to make sure that other equipment operating on the line has not caused the breaker to trip.
- Make sure wheel is rotating. The unit will shut down if the exhaust temperature exceeds 130 °F.

SEQUENCE OF OPERATION

When conditions exceed the desired set point of the humidistat and humidity control is required, the humidistat relay closes, energizing the yellow wire connected to terminal "3" on the humidistat terminal block. The 24VAC signal energizes the contactor and starts both fans, the water circulation pump and the desiccant wheel drive motor. The water coil heats up the regeneration air which then removes water vapor from the desiccant wheel and is exhausted out of the exhaust vent. Return air from the conditioned space is pulled through the process fan, pushed through the desiccant wheel where water vapor is removed and then supplied back to the conditioned space.

When proper humidity level is reached, the humidistat will turn off the unit. There is high regeneration temperature switch that will also shut down the unit if the regeneration exhaust temperature is too high. This switch will automatically reset once the unit cools.

The unit also has a freeze protection switch that will run the unit if the coil temperature drops below 40 °F.

NOVELAIRE Comfort Products

10132 Mammoth Avenue
Baton Rouge, LA 70814-4420
(225) 924 0427
(225) 930 0340 fax

Limited Warranty

NovelAire Technologies LLC (“NTL”) warrants to the original buyer of its ComfortDry 250 desiccant dehumidifier (“Product”), subject to the conditions and exclusions set forth below, that the Product will be free from defects in material and workmanship. NTL makes this Limited Warranty for a period of twelve (12) months from the date of shipment to the original buyer with respect to the Product, other than the desiccant wheel, as to which NTL makes this Limited Warranty for a period of five (5) years from the date of shipment to the original buyer. NTL’s sole obligation under this Limited Warranty is to repair or replace, at its option, free of charge to the customer (except as provided below), FOB factory, any Product determined by NTL (in its sole discretion) to be defective.

NTL’s Limited Warranty does not cover defects, reduced performance or failure caused, directly or indirectly, by improper installation, abuse, misuse, misapplication, improper maintenance, lack of maintenance, negligence, accident, or normal deterioration, including wear and tear. This Limited Warranty shall not apply to failures, defects, or reduced performance resulting, directly or indirectly, from use for any purpose other than desiccant dehumidification or from exposure to corrosive gases or liquids.

This Limited Warranty does not include costs for transportation (including, without limitation, freight and return freight charges, costs and insurance), costs for removal or re-installation of parts or equipment, premiums for overtime, or labor for performing repairs or replacement made in the field. NTL is not responsible for damages occurring during transport of any Product to or from NTL.

THE OBLIGATION AND LIABILITY OF NTL UNDER THIS LIMITED WARRANTY DOES NOT INCLUDE LOSSES, DIRECT OR INDIRECT, FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. THIS LIMITED WARRANTY IS PROVIDED EXCLUSIVELY TO THE ORIGINAL BUYER OF THE PRODUCT AND MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED.

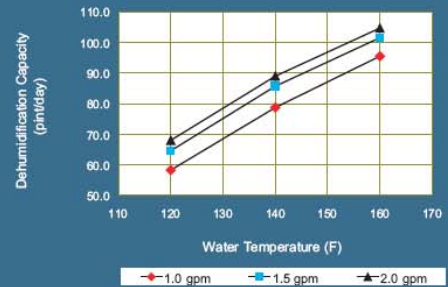
THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

COMFORT_{DRY}[™] 250

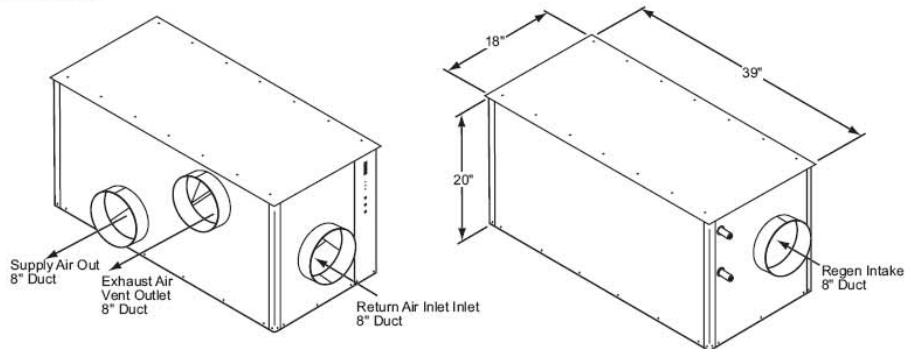
SPECIFICATIONS

Power:	120 V, 15A Circuit, 1PH 60 HZ, FLA 5.2, RLA 2.9
Control & Interlock:	24 vac
Weight:	137 lbs
Process Volume:	300 CFM
Regeneration Volume:	300 CFM
Capacity (@80F, 60% RH):	105 Pints/Day
Hot Water Requirement:	1-2 GPM @ 120F-160F
Sized For:	Up to 3000 SQ. FT. - Typical

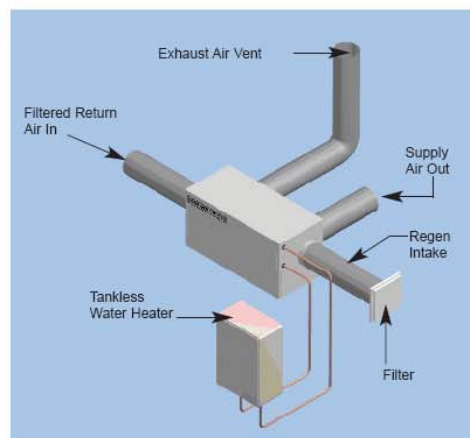
PERFORMANCE



DIMENSIONS



INSTALLATION



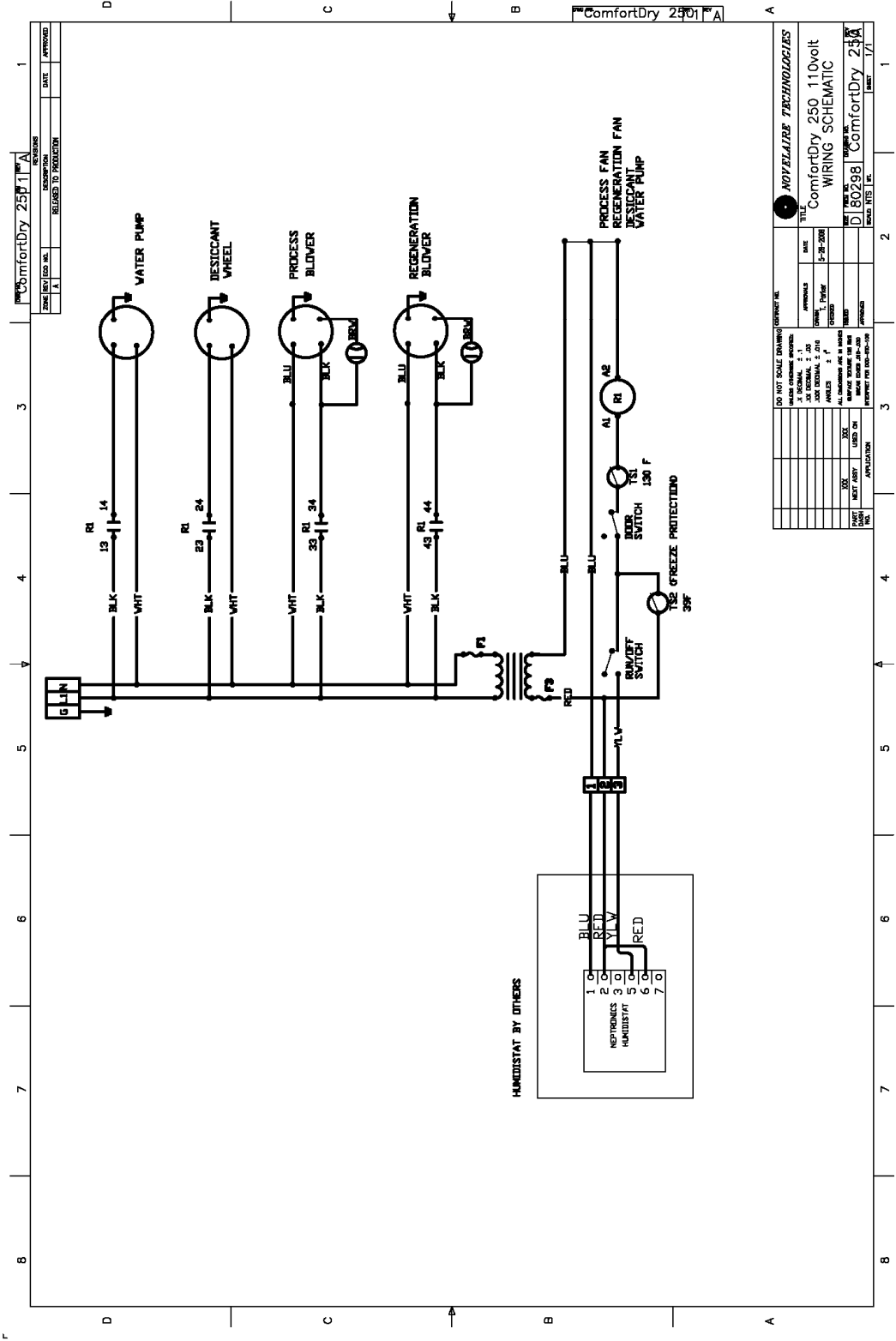
The ComfortDry 250 will operate with any hot water source. The unit can be installed as shown in a "stand alone" configuration where filtered return air comes from the space to the unit, and dry supply air returns back to the space through two supply air registers that "Y" off of the main supply air duct. Reactivation air is typically attic air that is pulled through a filter, through the unit and exhausts with the moisture from the desiccant wheel through the exhaust vent. As an option, the ComfortDry 250 can be ducted into the existing air handling system to utilize the existing duct work for dry air distribution throughout the home. Consult the operating and installation manual for details.

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10132 Mammoth Drive, Baton Rouge, LA 70814-4420
tel. 800-762-1320 / 225-924-0427 fax. 225-930-0340
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The information contained in this brochure is believed to be accurate by NovelAire Comfort Products, but is not warranted.



Ladder Logic for ComfortDry 250

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