

# Dri-Basement<sup>®</sup>

## DEHUMIDIFIER

### Installation and Operations Manual



### Read and Save These Instructions

Distributed and Manufactured Exclusively By:



**OscarAir, Inc.**  
www.BasementDehumidifiers.net  
**1-800-643-7818**

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Charleston, South Carolina 294124986

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## Safety Notes:

- The Dri-Basement Series Dehumidifier must always be connected using the grounded electrical connection as required from all electrical appliances. The warranty is voided and all responsibility for the operation is born by the owner if non-grounded wiring is utilized.
- The Dri-Basement Dehumidifiers must only be maintained and serviced by a qualified technician.
- The Dri-Basement Dehumidifiers are intended only for operation when oriented with the unit sitting on its casters and level. Any other orientation could cause water to come in contact with the electrical components. Remove plug before moving dehumidifier. If any water may have spread throughout unit, the unit should be opened and allowed to dry thoroughly before reconnected to electric and restarting.
- For proper operation, neither the inlet nor discharge should be positioned against a wall. The inlet requires a minimum of 12" clearance and the discharge needs a minimum of 24" clearance.
- For proper diffusion of air throughout the room, the dehumidifier should be positioned so that the discharge is flowing in the direction of the greatest free space.
- Do not insert any objects into the inlet or discharge. If service is required, call a qualified technician. All work on unit should be done with the unit "off" and unplugged.
- Do not use water to clean unit exterior. Only use a damp cloth with unit unplugged.
- Do not use unit as shelf or device to hang clothes. This could cause damage to unit.
- The inlet filter generally needs cleaned/or replaced no more than once per month. Check unit on a weekly basis to insure that more frequent cleaning is not required.

## Identification:

For future reference, write down the model, serial number, date of purchase and use this information whenever corresponding concerning your dehumidifier.

Model                      Dri-Basement  
Serial Number            \_\_\_\_\_  
Date of Purchase        \_\_\_\_\_

## Customer Service:

For additional questions concerning the operation of your dehumidifier, please:

- Contact your installing contractor
- Please call OscarAir at 1-800-643-7818
- Visit our website [www.BasementDehumidifiers.net](http://www.BasementDehumidifiers.net)

## Warning

120 Volts AC may cause serious injury from electric shock.

1. Disconnect electrical power before servicing
2. Plug unit only into grounded electrical outlet
3. Do not use extension cord
4. Do not use plug adapter

## Power Supply:

115V, 60 Hz  
AC Only 1 Phase

Outlet Requirement:        3-Prong, GFI  
Circuit Protector:            15 Amp Time Delay Fuse or Circuit Breaker

## Principle of Operation:

The Dri-BasementSeries Dehumidifier utilizes its integral humidistat or optional remote mount humidistat to monitor the conditioned space. When the relative humidity goes above the selected set point, the dehumidifier will energize. Air is drawn across an evaporator coil. The evaporator coil is cooler than the dew point of the air so moisture will condense out of the air. A heat exchanger located between the evaporator and condenser coils helps improve the efficiency of the unit. Air is then reheated through the condenser coil and distributed back into the room. There is a fan switch next to the humidity to control operation of the unit's fan. In "ON" mode, the fan runs constantly. In the "AUTO" mode, the fan only runs when the unit's humidistat has turned the dehumidifier "ON".

## Installation:

The area to be controlled should be sealed with a vapor barrier. This unit is ideal for both finished and unfinished basements. The better the area is sealed, the more efficiently the unit will operate.

**WARNING** It is recommended to remove dehumidifier from area if applying a liquid vapor barrier. Some coatings dry via "solvent evaporation," which may be harmful to certain components in your dehumidifier. Allow coating to completely dry and exhaust vapors prior to positioning dehumidifier. Read and follow coating manufacturer's instructions completely.

- ❑ Place dehumidifier on level surface

**WARNING** If after unit is positioned, it is moved in such a manner that the compressor didn't remain in a vertical orientation, wait a minimum of 2 hours before turning the unit "on."

- ❑ Drain Line
  - Standard Unit – Unit has 20' – 3/8" ID drain line. Route drain line to drain or outside of the area. Drain line must have a downward slope to drain or condensate pump. A barbed fitting and additional drain line are provided if required.
- ❑ Plug unit into 15 amp grounded outlet.
- ❑ Determine whether you want constant fan operation (Fan Switch "ON") only when fan to operate when dehumidifier is operating (Fan Switch "AUTO"). Set fan switch accordingly.
- ❑ To operate unit, turn humidistat knob clockwise until unit energizes.
  - Confirm compressor is running and allow to run for minimum of 15 minutes
    - Discharge air will be approximately 20°F warmer than inlet air.
- ❑ After you've confirmed satisfactory operation of unit, humidistat should be set at desired position for automatic operation.

### Position of Dehumidistat Knob

Off	1	2	3	4	5	6	7	Cont
	80%	70%	60%	50%	40%	30%	20%	Approximate Setpoint

- In "OFF" the machine will never start
- In "CONT" the machine will never stop

**NOTE** Humidistat settings are approximate only. For critical applications, you may want to confirm actual settings with a psychrometer and adjust according.

## Operation:

During normal operation, the dehumidifier will automatically cycle "on" and "off" to maintain your desired set point. If it should need to run for extended periods of time, the dehumidifier features an automatic defrost cycle to melt any ice that accumulates on evaporator coil. Approximately every 35 minutes of continuous operation, the unit will test for the need for a defrost cycle. If required, it will defrost for approximately 3 minutes.

**Warning** Check condition of air filter on a monthly basis until cleaning interval for your application can be properly established. In most instances, the filter can be vacuumed once after approximately 3 months and then replaced after approximately 6 months.

**Maintenance** – Proper maintenance of air filters is required to prevent extensive cleaning of heat exchanger and coils.

1. Unplug Unit
2. Filter may be cleaned by
  - a. Vacuuming
  - b. Or Replace with similar 20" x 14" x 2" MERV rated filter
3. Plug in Unit
4. Test Refrigerant Charge
  - a. Confirm compressor is running and allow to run for minimum of 15 minutes
  - b. During normal operation, there will be an approximate 20°F temperature rise through the unit.
5. After routine maintenance has been completed, return humidistat to desired setting.

If any problems occur during routine maintenance, contact your contractor or the factory.

## Specifications:

<b>MODEL</b>	DRI-BASEMENT
<b>HEIGHT</b>	33.5"
<b>WIDTH</b>	20.5"
<b>LENGTH</b>	16.5"
<b>WEIGHT</b>	104 LBS
<b>AIRFLOW</b>	360 CFM
<b>MOISTURE REMOVAL AT 80F/60% RH</b>	105 PINTS PER DAY
<b>POWER SUPPLY</b>	115 VOLT/60 HERTZ SINGLE PHASE
<b>FINISH</b>	POWDER-COATED EPOXY
<b>OPERATING RANGE</b>	33 F TO 105 F
<b>REFRIGERANT</b>	R-22
<b>CONDENSATE DRAIN SIZE</b>	20FT LONG x 3/8" ID TUBE
<b>AMPS (FULL LOAD) AT 80F/60%</b>	6.2 NOMINAL, 7.5 PEAK
<b>POWER CORD</b>	20' GROUNDED PLUG
<b>FILTER SIZE</b>	20" x 14" x 2"

## Parts List:

DH-100-101	Compressor
DH-100-101	Humidistat
DH-100-102	Blower w/ Capacitor
DH-100-103	Thermostat
DH-100-104	Compressor Capacitor
DH-106	Power Cord
DH-100-107	Control Board
DH-100-108	Condensor Coil
DH-100-109	Evaporator Coil

## Warranty:

Seller warrants the equipment to be free from defects in workmanship and material for a period of 12 months after shipment (36 months on compressor). This warranty is limited, however, to the repair or replacement of defective equipment. If it is necessary to return unit for service, customer is solely responsible for proper packaging, freight charges and risk associated with shipment to the Seller's factory. Customer must initiate warranty process by contacting factory. Do not send any component or product back to factory without a Return Material Authorization.

This limited warranty does not apply to any part or component that is damaged in transit or when handling, has been subject to misuse, has not been installed, operated or serviced according to the Seller's instructions, or has been operated beyond the factory-rated capacity or has been altered in any way. Routine maintenance is not covered by this warranty.

Seller's liability is limited to replacement of defective parts or components and does not include any cost of labor (including, but not limited to, labor to remove and/or reinstall any defective part), refrigerant or piping.

OscarAir, Inc. shall not be responsible for loss of use of any product, loss of time, inconvenience, or damage to other equipment, or any other indirect or consequential damage with respect to property whether as a result of breach of warranty, neglect, or otherwise.

**THE WARRANTIES AND LIABILITIES SET FORTH ARE IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, IN LAW OR IN FACT, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. OscarAir, Inc's total liability, regardless of nature of claim shall not exceed original purchase price of the product. If a product or component is replaced while under warranty, the applicable warranty period shall not be extended beyond the original warranty time period.**

The foregoing shall constitute the total liability of seller in the case of defective performance of all or any of the equipment or services provided to Buyer. Buyer agrees to accept and hereby accepts the foregoing as the sole and exclusive remedy for any breach or alleged breach of warranty by Seller.