



Dry Air
TECHNOLOGY

OWNER'S MANUAL



ATLANTIC LGR LOW GRAIN REFRIGERANT DEHUMIDIFIER

This manual contains important safety and operating information.
Please read before using the dehumidifier and save for future reference.

Purchase Date: _____ Serial No: _____





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*******IMPORTANT*******

READ FIRST BEFORE OPERATING UNIT

BEFORE OPERATING:

IMPORTANT! The power switch must be in the “OFF” position before it is plugged in. The error light will illuminate if the switch is in the “ON” position before it is plugged in the wall because the safety circuit has not been initialized.

The standard operating temperature for the Atlantic LGR is 58 °F degrees to 120 °F. The unit will freeze below 58 °F. Units stored in cold areas could cause the coils to frost, and when plugged in, the unit may immediately go into defrost mode (indicated by the blue light on the control panel). This is normal. To prevent a leak, properly place the discharge hose into a receptacle before the unit goes into automatic pump out mode.

AFTER OPERATING:

Please keep in mind that coils may still be cold at the end of each use. Keep the unit plugged in and the discharge hose in a receptacle. Allow the unit to thaw thoroughly until the side of the unit is no longer cold to touch. Press the purge switch to completely empty the pump reservoir. If the condensate pump is properly purged after the last use, or if the unit is removed from the job site before the coils return to room temperature, the condensate pump may begin to pump water immediately when the unit is plugged in at the next job site causing a leak if the discharge hose is not placed in a receptacle.

Please be sure that unit goes through defrost mode completely to ensure that the condenser coil is properly thawed, and that collected water in the pump is fully purged. Unplugging the unit before the evaporator coil is fully defrosted could cause water to collect in the pump and overflow causing a leak.

Atlantic LGR

Low Grain Refrigerant Dehumidifier



OPERATION AND SERVICE MANUAL

Congratulations on your purchase of the Atlantic LGR dehumidifier. Please carefully read the operation and maintenance instructions prior to operating the unit. Following these instructions will ensure proper operation, transportation and storage of the Atlantic LGR. This will maximize the performance and minimize occurrences of misuse that may result in unnecessary service and repairs and shorten the operating life of the unit.



1 Operation

1-1 Inspection of unit

Upon delivery of your Atlantic LGR dehumidifier, inspect the packaging for signs of damage. If you suspect any concealed damage, it is critical that the damage be identified and noted before you sign for the delivery. If this procedure is followed the shipping claim is between the freight company and the company that hired the freight company to deliver your unit. After the delivery receipt is signed, the claim must be filed by your company within 7 days.

1-2 Transportation of unit

The Atlantic LGR dehumidifier should be transported in the vertical, operating position. The unit may be placed in a horizontal position on its back for loading and unloading purposes only. Transporting the unit in this position puts undue stress on the refrigeration components and tubing. If the unit has been in a horizontal position prior to use, place the unit upright and wait for 10 minutes before starting the unit.

1-3 Electrical requirements

The Atlantic LGR dehumidifier will plug into a grounded 15 amp outlet. If used in wet conditions a ground fault interrupter (GFI) outlet or attachment is required for safe operation. The unit draws 7.5 amps at 80 °F, 60 %RH (AHAM conditions). When operated at higher humidity and temperatures the amp draw will increase. When operated at cooler or drier conditions the amp draw will decrease.

1-4 Set-up for operation

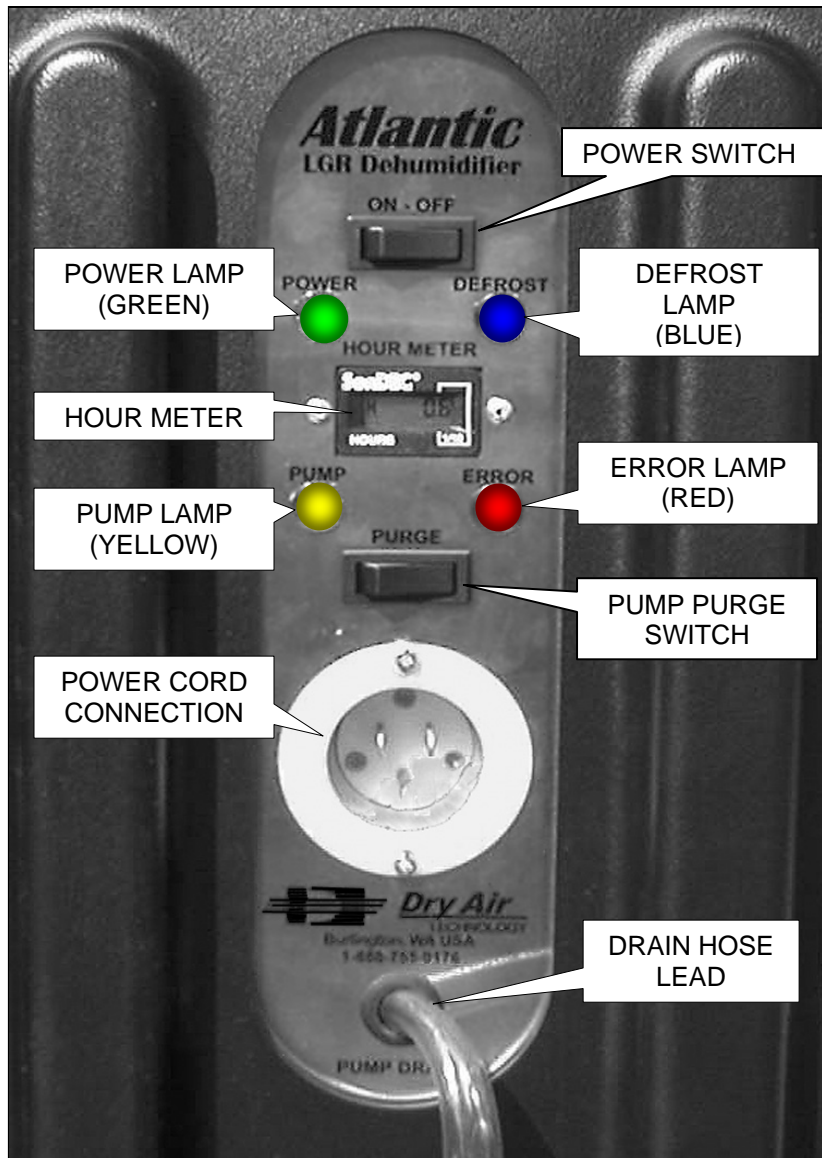
To set-up the unit for operation, place the unit in an upright position normally located in the center of the area to be dehumidified. Connect the 40' drain hose to the drain hose lead located at the bottom of the control panel. Run the drain hose to a permanent drain or water tight container. Plug the power cord into the dehumidifier and then into a grounded 15 amp outlet.

Before turning the unit on, check that the pleated media air filter is in place and in proper operating condition. If ducting is going to be attached to the Atlantic LGR, this should be performed prior to turning the unit on.

To turn the unit on, push the power switch. The power lamp on the control panel (green) will lighten. The fan will immediately come on, and the compressor will start. The lower pressure control may turn off the compressor if starting the unit when it has been stored in cold conditions. This is caused by the contraction of the cold

refrigerant. The low pressure control prevents the compressor from operating when there is insufficient refrigerant in the system. Insufficient refrigerant will cause damage to the compressor. A false low charge may be sensed by the control if the refrigerant is cold. The automatic restart will switch the unit back on if the pressure in the system increases. In extremely cold conditions this may cycle a few times.

Be sure to properly purge remaining water in the pump after each use. Please keep in mind that coils may still be cold at the end of each use. Allow the unit to adjust to room temperature and press the purge switch. If the condensate pump had not been properly purged after the last use, or if the unit had been removed from the previous job site before the coils had returned to room temperature, the condensate pump may begin to pump water immediately when the unit is plugged in.



1-5 Control panel

The control panel (picture left) contains the power switch, hour meter, function lamps, pump purge switch, power cord connection, and drain hose lead. All of these components are identified in the picture.

The **Hour meter** displays the number of hours of operation since the unit was built to the tenth of an hour (six minutes).

The **Power lamp (green)** lights when the power switch is on.

The **Pump lamp (yellow)** lights when the condensate pump is engaged. This will occur when the auto pump switch is activated by the water level in the condensate pump reservoir or when the pump purge switch is pressed.

The **Defrost lamp (blue)** lights when the unit enters a defrost cycle. The light will go off when the defrost cycle is completed.

The **Error lamp (red)** will light if the condensate pump safety switch is activated by a failure of the auto pump function. This safety switch will also turn off the compressor, so the pump will not overflow. The Error lamp will also light if the low pressure switch senses low pressure in the refrigeration system and has turned off the compressor. This lamp indicates a need for service.



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Atlantic LGR™ PARTS LIST

| Description | Part Number |
|--|-----------------|
| Stainless Steel Removable Front Cover | RD-00C-P6N10447 |
| Stainless Steel Top Cover | RD-00C-S3AN0451 |
| Rubber Foot | RD-00F-PNN10239 |
| Air Filter MERV 8 | RD-00C-N6NN0482 |
| 20' - Power Cord | RD-00E-P4A10249 |
| On/Off Rocker Switch | GN-00E-P3B10218 |
| Momentary Switch | GN-00E-P3B30217 |
| DryPro™ Drip Tray | RD-00C-S1AN0455 |
| 9,165 BTU Compressor | RD-00M-M2A10268 |
| Blower Motor | RD-00M-M1N10251 |
| Capacitor 370 VAC/40mf | AF-00E-PNA10227 |
| Relay 6-240 VAC 50/60 Hz | RD-00E-NNAN0255 |
| Evaporator Coil | RD-02M-N2AN0245 |
| Condensor Coil | RD-02M-N2AN0246 |
| Condensate Pump | RD-00M-PNA10241 |
| ICM Defrost Control | RD-00E-N6NN0236 |
| ICM Defrost Control Mount | RD-00C-G8NN0407 |
| Hour Meter | RD-00E-P5AN0099 |
| 3/8 Hose Fitting (Attached to 1 ft hose from pump to 40' Discharge hose) | RD-00M-P3A70231 |
| 1/4" 40' Discharge Hose | RD-00M-P5A90230 |
| 1/4 Barb Fitting (Attached to 40 ft hose) | RD-00M-P3A70232 |
| 12" Wheels | RD-00M-PNA10241 |
| Bumper Wheels | RD-00M-PNN10255 |
| Foot 1x1.49" 5/16-18 Bolt (used to attach bumper wheels) | RD-00F-PNN10239 |
| Metal Heat Exchanger | RD-00M-A2BN0244 |

Dry Air Technology 10 Year Limited Warranty

Refrigerant Dehumidifier Products

Warrantor: Dry Air Technology, 313 North Oak Street, Burlington, WA 98233. Telephone: 888-755-9176, local: 360-755-9176, fax: 360-755-9236.

Who Is Covered: This warranty extends to the original end-user of refrigerant dehumidifiers manufactured by Dry Air Technology, and may not be assigned or transferred.

Warranty Period: The term of the warranty coverage from the date of purchase is:
10 years on the cabinet, chassis and housing
5 years on the parts of the sealed refrigeration system
1 year on parts, labor and reasonable shipping costs, excluding filters and accessories.

Warranty Coverage: Dry Air Technology warrants that, for one year refrigerant dehumidifiers manufactured by Dry Air Technology will operate free from defects in material or workmanship, or Dry Air Technology, at its option, will repair or replace the defective part(s), free of charge.

Dry Air Technology further warrants that for a period of five (5) years, the condenser, evaporator and compressor of dehumidifiers manufactured by Dry Air Technology will operate free from defects in material or workmanship, or Dry Air Technology, at its option, will repair or replace the defective part(s), provided that all labor and shipping costs for the defective part(s) shall be borne by the end-user.

Dry Air Technology further warrants that for a period of ten (10) years, the cabinet, chassis and housing of dehumidifiers manufactured by Dry Air Technology, will be free from defects in material or workmanship, or Dry Air Technology, at its option, will repair or replace the defective part(s), provided that all labor and shipping costs for the defective part(s) shall be borne by the end-user.

This warranty does not cover any defect, malfunction, etc. resulting from misuse, abuse, lack of normal care, corrosion from chemicals, freezing, tampering, modification, unauthorized or improper repair or operation, accident, acts of nature or any other cause beyond Dry Air Technology's reasonable control.

End-User Responsibilities: Warranty service must be performed by a firm or individual authorized by Dry Air Technology. If the end-user is unable to locate or obtain warranty service from an authorized firm or individual, he should contact Dry Air Technology at the above location, which will arrange for covered warranty service. All covered warranty service will be performed during normal business hours.

Limitations and Exclusions: If any part of a dehumidifier manufactured by Dry Air Technology is repaired or replaced, the new part shall be warranted only for the remainder of the original warranty period of the dehumidifier (but all warranties will be extended by the period of time, if any, that the Dry Air Technology dehumidifier is out of service while waiting for covered warranty service).

UPON THE EXPIRATION OF THE WRITTEN WARRANTY APPLICABLE TO THE DRY AIR TECHNOLOGY 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 DRY AIR TECHNOLOGY ARE SET FORTH HEREIN, AND NO CLAIM MAY BE MADE AGAINST DRY AIR TECHNOLOGY BASED ON ANY ORAL WARRANTY. IN NO EVENT SHALL DRY AIR TECHNOLOGY, IN CONNECTION WITH THE SALE, OPERATION, REPAIR OR REPLACEMENT OF ANY DRY AIR TECHNOLOGY 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 limitations 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.

DRY AIR TECHNOLOGY, BURLINGTON, WASHINGTON