

MODEL DH-5 DEHUMIDIFIER

Benefits

Improves Personal Comfort

Improves Air Quality

Inhibits Mold and Mildew Growth

Helps Eliminate Musty Odors

Reduces Condensation

Features

Lightweight, Stainless Steel Cabinet

Lowest Power Consumption

Continuous Drain

Rugged Carrying Handle

Automatic Humidistat

Compact and Portable Design

UL Approved

Specifications

Weight - 28 Lbs

Dimensions (LxWxH) - 15" x 12" x 12"

Energy Use - 150 Watts at 115 VAC

Starting Current - 194.4 Watts

Humidistat - 20-80% Relative Humidity

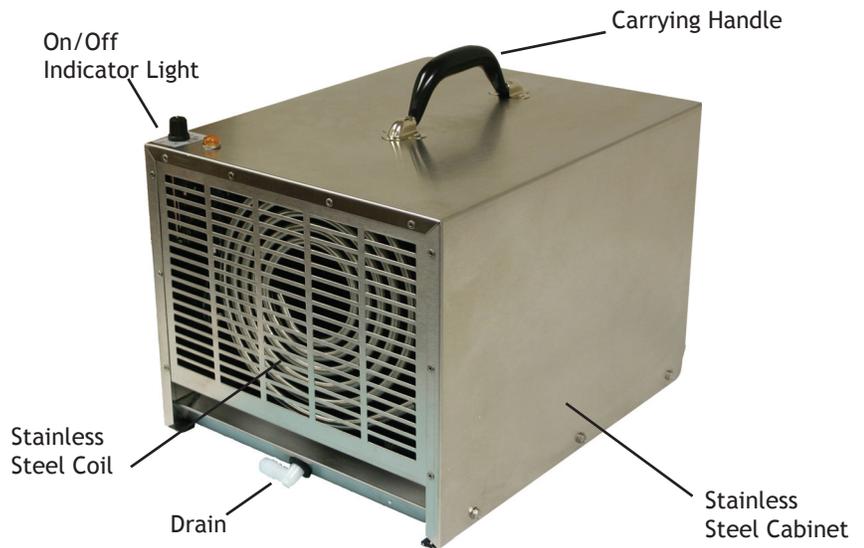
Ambient Temp Range - 50F - 120F

Compressor - 1/12 HP

Refrigerant - R134a (cfc free)

Designed Load - 1000 sq. ft or less

Capacity - 9 pints/day



For Your Records:
Serial Number:

Date of Purchase:

Purchased From:

In the Box:

1. DH-5-1 Dehumidifier
2. 6 ft x 5/8" ID hose for drain attachment
3. Warranty Card (Fill out and send back)
4. Instruction Manual



McIntire

Note: It is normal to hear a rattle or feel the compressor shake

Important: Check the dehumidifier for damage caused during shipment. If damaged, DO NOT OPERATE. Do not return to McIntire without prior authorization.

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Important Safety Instructions

	This symbol means warnings and safety precautions should be adhered to
	This symbol means risk of electrical shock
	This symbol means risk of explosion

1. All warnings and safety precautions should be adhered to.
2. Do not submerge unit in water.
3. Locate the unit on a flat, level, solid surface where the unit won't fall.
4. When the unit is in operation, do not place the unit inside an enclosed cabinet or bookcase that will interfere with the airflow and the proper operation of the unit.
5. The unit is designed to be portable, however, if you desire a more permanent location for your unit such as a wall or ceiling mount, ensure that the unit is mounted securely and remains level.
6. Do not store or use flammable chemicals, gases or liquids such as gasoline or diesel fuel in the vicinity of this unit or any other electrical appliances.
7. Do not operate the dehumidifier or other electrical appliance in the bilge or engine room where gasoline, diesel fuel or other combustible vapors may accumulate which could result in an explosion.
8. Do not store or use flammable chemicals in rooms with an RH below 30% . Static discharge may ignite combustible vapors and result in an explosion.
9. The DH-5 dehumidifier runs on 115VAC/1ph/60hz power. Be sure to plug the unit into an acceptable 3 prong, grounded receptacle that has a properly rated and protected AC power source such as shore power or an inverter.
10. Always turn off and disconnect the unit before moving, cleaning or servicing the unit.
11. Only qualified technicians should perform repairs and servicing of this unit.

Setup and Operation

Setup



Check the dehumidifier for damage caused during shipment. If damaged, do not operate.

1. Unpack the unit on a countertop or other flat surface.
2. Attach the hose to the plastic drainpipe (see diagram on pg 6). The unit ships with a 6-foot length of 5/8 inner diameter (ID) vinyl hose. The hose may be cut to length for your application. If a longer length of hose is required, it can be found at a local hardware store.
3. Install the dehumidifier in a position that is higher than the drain. The unit uses gravity to drain the condensed moisture from the unit. Never position the dehumidifier lower than its intended drain.
4. When routing the drain hose, be sure to not cause any kinks or other sharp bends in the hose.



Do NOT drink the water that collects in the drain pan.

Operation



Be sure to plug the unit into a 3 prong, grounded receptacle that has a properly rated and protected AC power source such as shore power or an inverter.

1. The dehumidifier runs on normal AC only (115 VAC) household or shore power. Make sure it is connected to a grounded, 3 prong, 115 VAC receptacle. Plug in the power cord to a suitable AC power supply as described above.
2. Turn the rotary control knob (humidistat) to the “on” position.
3. Set the humidistat to the desired level which is suitable for your application. Settings below 50% may over-dry woodwork.
4. The dehumidifier will cycle on and off as needed to hold the ambient moisture level at the set RH level.

Locating the Unit

1. Locate the unit in the galley, berth, head or wherever a moisture problem exists.
2. Direct the exhaust airflow toward moisture problem areas. For best results, close outside doors, hatches, portholes, etc. Set the dehumidifier to 60%
3. Store and operate the unit on a level, upright position. Normal roll of a boat or motion of an RV won't effect the unit. Rough handling or dropping the unit will cause it to malfunction.



1. Do not store or use flammable chemicals, gases or liquids such as gasoline or diesel fuel in the vicinity of this unit or other electrical appliances.
2. Do not operate the dehumidifier or other electrical appliances in the bilge or engine room where gasoline, diesel fuel or other combustible vapors may accumulate which could result in an explosion.
3. Do not store or use flammable chemicals, gases or liquids such as gasoline or diesel fuel in rooms with an RH below 30% since in a very dry room, static electricity discharge may ignite combustible vapors which may result in an explosion.

Cleaning and Maintenance

Use a stainless steel cleaner such as “Nevr Dull” on the cabinet and wipe off with a clean rag to keep the cabinet looking new and clean. Occasionally, check the evaporator (condensation coil at the air intake) and the condenser. If either is contaminated with dust, dirt or debris have the unit serviced by a qualified technician.

Clean and dry out the drain pan and hose occasionally to avoid mold, mildew or bacteria buildup. Inspect the hose for blockages caused by kinks, dirt, mold and/or mildew. Clean and straighten as necessary.



Always unplug the dehumidifier before cleaning or servicing the unit. Empty the drain pan to avoid water spilling.



Only a qualified technician should perform repairs or the servicing of this unit

Note: Cleaning of Condenser and Evaporator Coil can be performed by the end user

Troubleshooting

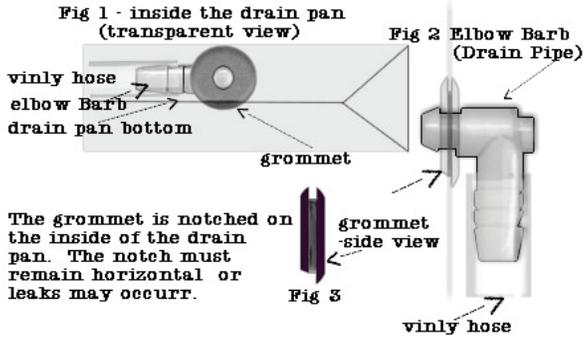
Problem	Possible Cause	Solution
Dehumidifier does not run	<p>Unit is not plugged in</p> <p>Unit is not connected to a properly rated AC power source</p>	<p>Plug in the unit</p> <p>Check that the unit is properly connected to an AC power source. Also check that the circuit protector for the receptacle is on.</p> <p>If properly connected, turn the humidistat knob all the way to the “on” position. If the unit still doesn’t run, contact Arrow Dryers’ technical support.</p>
The unit doesn’t perform optimally	<p>Airflow is restricted</p> <p>Too much airflow from the outside</p> <p>Evaporator coils are dirty</p> <p>Low humidity and temperature</p>	<p>Check that there is adequate airflow toward and around the unit. Consider using an external fan to move the air around and toward the unit. Check that nothing is blocking the unit.</p> <p>Close all outside doors, hatches, portholes, etc.</p> <p>Dirty coils interfere with the dehumidifier’s ability to remove moisture from the ambient air. Have a qualified technician service the unit.</p> <p>Check the humidity first. At a low humidity level and temperature below 65F, the amount of moisture that can be collected is greatly reduced. Set the humidistat to 60% RH. If the temperature and humidity are high, call Arrow Dryers’ technical support.</p>
There is a rattling sound and the compressor shakes when the unit is moved.	The compressor is built and mounted in the chassis in such a way as to absorb movement. It is perfectly normal to hear the compressor rattle and feel it shake.	

Caution: Do not rapidly cycle the unit on and off. Allow a few minutes before restarting to protect the overload circuit.

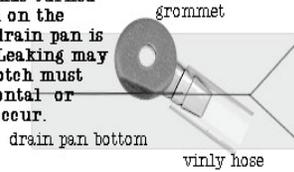
Troubleshooting Cont.

If a leak develops from rotating the drain pipe, ensure that the notch is vertical inside the drain pan. See below. More than likely, if the unit is draining outside of the barbed elbow connection, the grommet has rotated inside the condensate drain pan and must be re-positioned.

If a leak develops at the drain pipe check this:



The grommet has turned and the notch on the inside of the drain pan is now angled. Leaking may occur. The notch must remain horizontal or leaking may occur.



The grommet is notched on the inside of the drain pan. The notch must remain horizontal or leaks may occur.

Tip: To prevent the grommet from turning, hold the grommet securely while turning the elbow barb when positioning it to drain.

Tip: If leak persists, use a dish drain or bucket to catch undesirable leaks.

Humidity Levels

Below are the optimum humidity ranges for various materials as recommended by the National Park Service (NPS). Please note that humidity is not the only agent of deterioration and other factors may need to be addressed when storing your equipment. These agents may include visible light, ultraviolet radiation, temperature, dirt, etc. which may effect your environment. These ranges only address relative humidity levels as recommended by the NPS.

Paintings.....	40% - 65%
Paper.....	45% - 55%
Photographs/Film/Negatives.....	30% - 40%
Other Organics (wood, leather, textiles, etc.)....	45% - 60%
Metals.....	<35%

Frequently Asked Questions

1. Where can I find support and warranty information?

Support and warranty information is found on the warranty card. Warranty is limited to original owner.

2. What is the recommended setting for the dehumidifier?

The recommended Relative Humidity (RH) setting for the DH-5 is 60%.

3. Where is the best place to locate the dehumidifier?

Locate the unit in the galley, berth, head or where the air is stagnant and may cause mold or mildew to form. Direct the exhaust of the unit toward the problem area is. DO NOT operate the dehumidifier or other electrical appliances in the bilge, engine room, or fuel storage rooms where gasoline, deisel or other combustible vapors may accumulate.

4. Who is the manufacturer?

DH-5 Dehumidifiers are manufactured in the USA by McIntire Company, the Bristol, CT company

5. What kind of maintenance is required on the unit?

The DH-5 was designed to be maintenance free under normal operating conditions. Occasionally, check the drain hose, drain pan and evaporator coils as described in the cleaning and maintenance section of this manual.

Calling For Service

Note: Support and Warranty information can be found on the warranty card

DO NOT return to McIntire Company without prior authorization and an RGA number

To contact McIntire Company for repair or warranty service:

745 Clark Ave.

Bristol, CT 06010

Toll Free: 800-437-9247

Fax: 860-314-4500

This warranty is good only in the continental boundary of the United States. For export, consult factory.