DRI-EAZ

F388 Owner's Manual
Dri-Eaz® EnviroBoss™ 1400 (115V)

DRI-EAZ PRODUCTS, INC.
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The EB1400 is a portable cooling, heating and dehumidification system. The unit may be ducted for directing cooled or heated air into specific spaces.

READ AND SAVE THESE INSTRUCTIONS

⚠WARNING

Read and understand manual before operating.

ELECTRIC SHOCK HAZARD

WARNING! Unit must be grounded.

- Use indoors only.
- Keep out of water.
- Keep electrical components dry. If they get wet, allow them to dry before using the EB1400.
- Insert three-prong plug on power cord into a matching electrically grounded outlet. Never cut off third prong.

FIRE HAZARD

- Keep air intakes clear of obstructions and dirt. Reduced airflow can cause motor to overheat. Keep away from draperies or other material that could block air intakes. See maintenance instructions.
- Keep air filter clean. Keep filter clear of clogging, oil, grease or other contaminants that can be drawn into the EB1400.

SAFETY INSTRUCTIONS

WARNING! Unplug unit before opening housing for cleaning or servicing.

- Turn off unit and unplug before lifting or moving.
- Handle the unit carefully. Always operate the unit on a stable, level surface. Do not drop, throw, or place where it could fall. Rough treatment can damage the unit, and may create a hazardous condition or void the warranty.
- Inspect the power cord before use. If cord is damaged, do not use. Replace with a cord of the same type and amperage rating. Protect cord from damage by turning off unit before unplugging. Always grasp the plug (not pulling on the cord) to unplug.
- The unit is designed to operate on 115V/60 Hz. Make sure that the electrical outlet is grounded.
- Secure during transport to prevent sliding and possi injury to vehicle occupants.
- Keep children away from unit. Be sure unit is inacce to children when unattended.
- Do not attempt to disassemble or repair the unit. Fo Authorized Service Centers, go to *www.dri-eaz.com/howtobuy* or call Dri-Eaz Service 800-932-3030.

INTRODUCTION

The EB1400 is a versatile unit providing dehumidificatio cooling with 470 CFM across the evaporator and 750 CF across the condenser, plus focused heating and ventilati The unit can be ducted for spot cooling and directing conditioned air or heat into specific spaces while filtering air and pumping out condensate.

FEATURES:

- Ducts to and from unit for heating and cooling. Note adapters for condenser inlet and outlet and evapora outlet. No duct adapter for evaporator inlet.
- Refrigeration system that dehumidifies while it heats cools
- Uniform 8" ducting size for all outlets
- Digital temperature control
- Durable rotomolded duct rings and housing
- Wheel casters and handle for ease of transport

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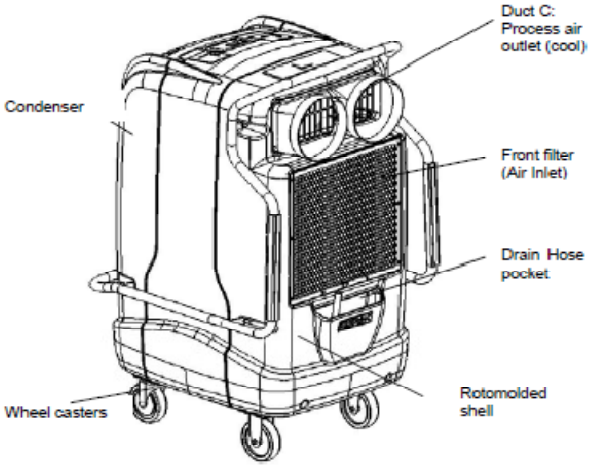
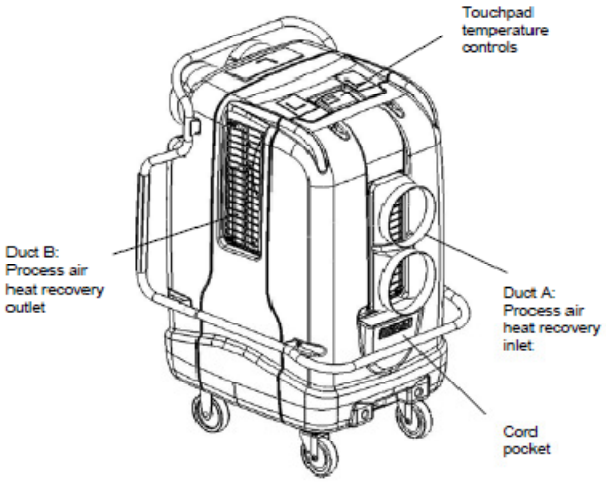
PARTS IDENTIFICATION (Shown, below)



Front (Intake) Filter View



Back View

SETUP

Place dehumidifier upright. When transporting the EB1400 in a horizontal position is necessary, set upright (vertically) for at least 30 minutes before operation. When machine is placed in a horizontal position, oil from the compressor flows into the refrigerant coils reducing the ability of the EB1400 to function.

OPERATING INSTRUCTIONS

GETTING STARTED

PLACEMENT:

For cooling or heating, place at least one EB1400 per room.

1. Place the unit on a level surface.
2. Make sure the System switch is set to Off then p cord into a standard 115V grounded outlet.
3. Set the digital temperature controls needed to fu (see below).
4. Check for proper operation before leaving the ur unattended. Do not move or carry the EB1400 w running or plugged in.

OPERATING RANGE

Recommended operating range is between 60° and and 46°C). The EB1400 will not function properly wh operating in an environment with temperatures outsi range.

CYCLE TIMES AND COMPRESSOR PROTECTION

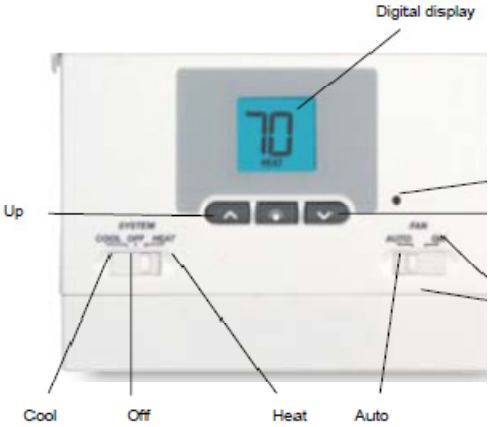
The EB1400 thermostat includes an automatic comp protection feature to avoid potential damage to the c system from short cycling. This thermostat automatic provides a five minute delay after turning off the cool output to protect the compressor. This protection is a present while operating the unit in heating applicatio

Important Notes:

- If unit loses power or gets unplugged during ope operator MUST wait five minutes before pluggin in or risk damaging the compressor or tripping th breaker in the facility.
- Always turn the System switch to OFF before ur
- If the System setting is adjusted during operatio will automatically delay five minutes before start
- When switching unit from cooling to heating or h cooling operator must adjust set point temperatu

TESTING AND PROGRAMMING THERMOSTAT

DIGITAL CONTROLS



TO TEST THERMOSTAT:

1. Move the system switch from OFF to the HEAT Press the ^ button on the keypad until the set pc temperature setting is a minimum of three degre

than the current room temperature. The EB1400 should start within several seconds.

2. The system switch in the OFF position. The EB1400 should stop within several seconds on normal single stage heating or cooling systems. Note: On refrigeration systems you must wait five minutes for the automatic compressor short cycle protection period to expire, or press the RESET button to bypass this feature for initial testing purposes. Pressing the RESET button will erase any user program settings.
3. Place the system switch in the COOL position.
4. Press the v button on the keypad until the set point temperature is a minimum of three degrees lower than the current room temperature. The cooling system should start within several seconds.
5. Place the fan switch in the AUTO position when using the EB1400.

VIEWING SET TEMPERATURE

1. Press and hold ^ or v button. The current set point temperature will be displayed in the place of the current room temperature, and the indicator SET will be displayed.
2. The display will return to normal operating mode when the ^ or v buttons are released. The SET indicator will turn off, indicating that the current temperature shown in the display is the room temperature. Continuing to hold the ^ or v button for three seconds or longer will allow the user to change the current set point temperature (See Changing Set Temperature, below).

CHANGING SET TEMPERATURE

1. Press and hold ^ or v button for three seconds. The entire display will flash once and the SET indicator will be flashing. Release the ^ or v button and press the ^ or v button again as desired to adjust the set temperature.
2. The display will return to normal operating mode after five seconds.
3. The SET indicator will turn off in the display, indicating that the current temperature shown in the display is the room temperature.

HIGH TEMPERATURE SAFETY SWITCH

When the selector switch is set to HEAT, a software feature automatically turns the unit off if the room temperature rises above 93°F (34°C). If the temperature rises above 99°F (37°C), the thermostat mechanically turns the unit off.

NON-VOLATILE MEMORY

In the event of a power failure, the non-volatile memory feature of this unit allows all settings to be recovered. When AC power is restored after an outage, all settings are retrieved from memory and reinstated.

RESETTING THERMOSTAT

The Reset feature allows the user to completely reset the thermostat to return to factory-set software settings.

1. To erase all entered settings, gently press RESET button using a paper clip or a small pencil tip.
2. This will return all thermostat settings to their default v and register all new manual switch settings for proper operation.

DUCTING INSTRUCTIONS FOR THE EB1400

Duct A: Process air heat recovery inlet
Duct B: Process air heat recovery outlet
Duct C: Process air outlet (cool)

- DUCTING: The unit is ductable for directing conditione or heat into specific spaces.
- DUCTING SIZE: Use eight inch diameter ducting and se with clamps on duct adapters.
- SIDE DUCTING: When using duct on the side, ducting s be run sideways out doors and windows. Put unit in and duct up at an angle into ceiling tiles (not directly
- RIGID DUCTING: Duct A requires rigid ducting (not layfl attached by clamps.

APPLICATIONS

(For more applications, please visit the EB1400 Virtual T Center at *vtc.dri-eaz.com*)

- COOLING IMMEDIATE AREA: Cold air blowing from Duct ducted) will cool overall room.
- HEATING AREA: Duct B outputs heat; ducting is neede ducting warm air outside room or to focus heat in tar area. If not ducted outside the room then it will heat immediate space.
- NEUTRAL AIR CONDITIONING: For neutral air conditionin both B (heat outlet) and A (heat inlet) outside the structure.
- DEHUMIDIFYING: Spot cool with dehumidification by du outlet C. No ducting is needed to dehumidify overall
- SPOT COOLING: For spot cooling point outlet C air stre specific area or duct it to spot cool.

TRANSPORTING AND STORING

1. Before transporting, move Duct B ducting adapter to the front or back of the unit to prevent damage. Note not expose the thermostat to moisture and rain wher transporting in uncovered vehicles such as flatbed tr
2. Transport the unit on stairs or over rough surfaces u on the Unimover or hand truck and hold in place usi straps. Do not secure the unit by the handle. **WARN** Take care when loading the unit on a hand truck; the could tip over resulting in personal injury. Always pla strap around the housing of the EB1400 and secure the Unimover or hand truck before attempting to lift t unit.
3. Store with left side of unit against the wall and keep upright while transporting. **NOTICE!** Do not secure t by the handles. Secure into place with a strap wrapp around the plastic housing. Store securely to avoid a damaging impact to internal parts.

MAINTENANCE

WARNING! Turn off and unplug unit before cleaning or servicing.

BEFORE EACH USE

Inspect Power Cord
Inspect power cord for cuts, fraying or damage; do not use if damaged.

WEEKLY MAINTENANCE

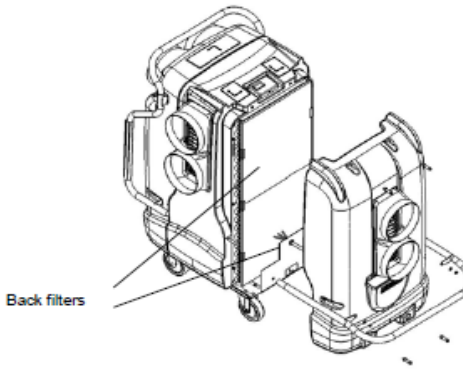
Inspect Front Filter
Slide duct ring adapters for outlet D off to remove front filter for cleaning. Slide out the filter and inspect for damage or excessive dirt. Use a clean 3M™ HAF filter (see below). Replace filter every four months or earlier if necessary. For Parts and Service call your local distributor or the Dri-Eaz Service Department at 800-932-3030 or 360-757-7776.

Use Clean 3M HAF Filters

Keep clean filters in the unit at all times to keep out dust and protect internal components. HAF filters may be vacuumed clean and reused up to three times before replacement.
Note: The two filters used for the unit are the same type but different sizes. Be sure the appropriate size is installed.

MONTHLY MAINTENANCE

1. **Inspect Exterior**
   Inspect exterior components and make sure they are properly installed. Listen to the unit for abnormal sounds. For Parts and Service call your local distributor, or the Dri-Eaz Service Department at 800-932-3030 or 360-757-7776
2. **Clean Exterior**
   Clean the housing with a damp cloth. Bring back the original shine with a vinyl cleaner/polish like those used on automobile plastics.
3. **Inspect Back Filters**
   The second set of filters is in the back of the unit on the condenser side and may only require cleaning periodically (every three to six months depending on the cleanliness of the air ducted or drawn into the condenser inlet). To access these filters, use a ⅜" socket wrench to remove the six ¼-20 bolts holding the back cover and lower handle in place. If you need further assistance, contact the Dri-Eaz Service Department at 800-932-3030 or 360-757-7776.



Condenser Side Filter Location

SPECIFICATIONS

Model	F388
Weight	195 lbs (88.5 kg)
Dimensions (H × D × W)	49.5 × 33.5 × 27.25 in. 125.7 × 85.1 × 69.2 cm
Amperage	11.7 amps
Cooling Capacity	11,000 BTU/h
Capacity (@ 95°F/60% RH)	108 pints (51.1 liters)/day
Air movement	470 CFM Evaporator air stream 750 CFM Condenser air stream
Filters	3M HAF filter
Cord Length	20 ft. (6.1 m)
Construction	Rotomolded shell
Safety	ETL listed to UL and CSA stand

Specifications are subject to change without notice. Som values may be approximate.

ACCESSORIES

Ceiling Adapter Kit (F400)
The Ceiling Adapter Kit allows the user to direct the heat absorbed by the EB1400 during A/C operation into a suspended ceiling space and recirculate it back through EB1400. Isolating the heat dissipating stream from the c stream creates a neutral air pressure environment, enab the EB1400 to deliver maximum cooling performance in situations where it is not possible to vent absorbed heat outside of the structure. Kit includes two lightweight ceili adapter housings, four 10 foot sections of semi-rigid duc and a 24 × 24 in. cardboard panel to temporarily block c openings adjacent to adapter.

Rigid Performance® Ducting (F382)
One 10 ft. section of 8 in. diameter semi-rigid ducting.

LayFlat Ducting (F268)
One 500 ft. roll 8.3 in. (ID) x 4 mil poly layflat ducting.

FOR PARTS AND SERVICE CALL YOUR LOCAL DISTRIBUT
the Dri-Eaz Service Department at 800-932-3030 or 360-757-7776. *www.dri-eaz.com*