

BD150 INDUSTRIAL DEHUMIDIFIER USER MANUAL



Drawing : - TPC337 Issue : - 4 Date : - 24/11/16



Get In Touch

Call: <u>0845 6880112</u>
Call: <u>info@adremit.co.uk</u>

Our Address

UNPACKING

Thank you for deciding to purchase an EIPL Industrial dehumidifier. Like the many tens of thousands of people who have already bought an EIPL dehumidifier we are confident you will find it is the most effective answer to the problem of condensation and dampness related problems.

IMPORTANT

Your industrial dehumidifier is packed in a plastic wrapping – please ensure that it is disposed of safely where it will not be a danger to children.

INTRODUCTION

Carefully remove the BD150 dehumidifier unit from it's transit box and visually check for any signs of transit damage. If there is evidence of damage DO NOT attempt to operate the unit, call your supplier for advice. Retain the packaging for further use, or dispose of it considerably.

This user manual tells you how to use the BD150 dehumidifier. Please read it thoroughly before operating the dehumidifier. If you have any questions about the unit please contact our Customer Service Department at the address shown at the back manual.

Dehumidifiers remove moisture from the air circulating through it.

Continuous operation reduces the relative humidity of the air and this helps prevent rust, rot, mould, mildew and condensation within the room, or other enclosed space where the dehumidifier is used.



A dehumidifier consists of a motor, compressor unit, a refrigerant condenser, an air circulating fan, a refrigerated surface, a means of collecting and disposing of the condensed moisture and a cabinet to house these components.

GENERAL

EIPL Industrial dehumidifiers can be stored and transported in the horizontal or vertical position. To operate, stand the unit upright, connect power and it is ready for operation.

When a generator is used to supply the power, it is essential to check the minimum kva required in the technical section within this manual. The generator must be started before connection is made to the dehumidifier.



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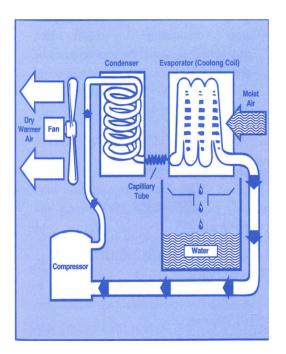
Call: 0845 6880112Puravent, Adremit IEmail: info@adremit.co.ukSettle, North Yorks

OPERATION

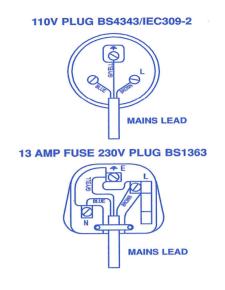
The fan draws moist air through the refrigerated surface which cools it below it's dew point, removing moisture which is collected and lead away. The cool air then passes over the hot condenser, where it is reheated. With the addition of other radiated heat the air is discharged into the room at a higher temperature but a lower relative humidity than when the air entered the unit. Continuous circulation of the room air through the dehumidifier unit aradually reduces the relative humidity in the room.

The BD150 Industrial Dehumidifier is a robust, compact unit designed to control the humidity in the enclosed space in which it is placed.

The unit is thermally protected and will switch off for a period if the maximum operating temperature of 35 °C is exceeded.



MAINS PLUG WIRING INFORMATION FOR EBAC INDUSTRIAL DEHUMIDIFERS



IMPORTANT

The wires in the mains lead are coloured and must be connected as shown in the diagrams above by a qualified electrician.

ELECTRICAL CONNECTIONS

The wire which is coloured Green and Yellow must be connected to the terminal marked E or by the Earth symbol. The wire which is coloured Blue must be connected to the terminal in the plug which is marked with the letter N or coloured Black. The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Red.

CHANGING THE FUSE

13 amp fuses that are ASTA approved to BS1362 should only be used.



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Ensure that all EXTERNAL doors and windows are CLOSED. Where no doors or windows are fitted, temporarily screen off the openings.

POSITIONING

For small areas position centrally in the area to be dried. For larger areas such as open plan buildings, offices, factories, a number of dryers may be required, in such cases they should be spread evenly around the area. Ensure that no unit is positioned in such a way that it blows directly into another.

For private house or flats, position the dryer on one floor at a time, starting at the lowest floor, closing all internal doors on the floor previously dried. Continue until all floor levels have been dried.

Note when a particular damp patch is to be dried out that the air outlet grille should be directed towards that area but should NEVER be closer than 1m to the surface. At no time should the inlet grilles be covered or obstructed.

DRAINAGE

Under most operating conditions water will be produced continuously and it is important that it is drained away correctly and not allowed to spill. Any spillage will evaporate and will, therefore, have to be recycled through the dryer again, which in effect, only prolongs the drying period.

PORTABLE CONTAINERS

Position a closed top container underneath the water discharge pipe (approximately 25 litre capacity). Place a short length of pipe one end over the discharge pipe and the other end in the container. Use a transparent container, this will enable you to check the level of the water and so prevent overflowing. As the unit will be running for long periods of time, e regular check should be made on the container water level.

PERMANENT DRAINAGE

Connect a flexible hose to the water discharge pipe of sufficient length so that it will reach a permanent drain. The gravity head created will allow for a gradual fall from the unit to the drain. Ensure that the hose is free of kinks and is not allowed to rise at any point above the level of the point discharge from the dehumidifier. Any air locks which may be created, should the level be raised by the hose passing over obstructions, could cause the water to "back up" the hose and spill form the dryer.

SWITCHING ON

Plug the unit into the power supply and switch on. Turn the rotary switch to the ON position. (On dual voltage units turn the rotary switch to the correct power supply voltage). Where applicable press and hold the push button for 1 second. The unit should now start.

SWITCHING OFF

Turn the rotary switch to the OFF position. Turn off the power supply and disconnect.



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Puravent, Adremit Limited, Unit 5a, Commercial Yard, Settle, North Yorkshire, BD24 9RH

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DEFROST OPERATION

If the ambient temperature of the room in which the dehumidifier is conditioning, falls below 15 °C ice will form on the evaporator coil as air passes over it. Over a period of time this build up of ice will effect the efficiency of the dehumidifier on it's ability to maintain the required set conditions within the room.

The BD150 is therefore fitted with a defrost control device. This defrost control device is timed to operate every 42 minutes for a period of 4 minutes.

During the defrost cycle the high pressure hot gas from the compressor is diverted into the evaporator coil where it melts the ice which has formed on the evaporator coil.

DUAL VOLTAGE MODELS

The BD150 dehumidifier unit is fitted with a transformer which will allow the unit to operate on either 110volts or 230volts 1ph 50Hz power supply.

All electrical components within the dehumidifier are rated for 110volts, for safety reasons. The rotary switch allows for the selection of the required voltage prior to starting the unit.



VOLTAGE PROTECTION DEVICE

The dual voltageBD150 dehumidifier unit is fitted as standard with a unique voltage selection protection device.

Should the unit be connected to 110volts supply and the rotary selector switch set inadvertently to 230volts, the unit will not start.

This unit is fitted with a screw type in line fuse holder with a 10 amp anti fuse holder.



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SAFETY

- **DO NOT** USE THE UNIT IF THE CABINET OR POWER CORD IS DAMAGED.
- **DO NOT** INSERT OBJECTS INTO ANY OF THE GRILLES ON THE MACHINE.
- DO NOT COVER OR OBSTRUCT AIRFLOW FROM THE GRILLES
- **DO NOT** OPERATE THE UNIT WITH THE COVERS REMOVED.
- DO NOT ATTEMPT ANY REPAIRS SHOULD THE UNIT FAIL TO OPERATE.
- **DO NOT** STAND ON THE UNIT.
- **DO NOT** ATTEMPT TO LIFT HEAVY UNITS UN ASSISTED.
- DO CHECK THE PLUG ON THE EQUIPMENT MATCHES THE SUPPLY
- **DO** USE THIS UNIT ONLY FOR THE PURPOSE FOR WHICH IT WAS DESIGNED.
- **DO** ENSURE THE POWER CORD AND SUPPLY IS EARTHED CORRECTLY.
- DO CHECK THE VOLTAGE SELECTION BEFORE ATTAMPTING TO POWER UP THE UNIT (DUAL VOLTAGE UNITS ONLY).
- DO USE A RESIDUAL CURRENT DEVICE "RCD" WHERE POSSIBLE.

SERVICE

This machine should be serviced by qualified Ebac personnel or others having technical competence in servicing refrigeration equipment following the instructions in the Ebac Service Manual.

SPARES

Full spare parts listings and Ebac Service Manuals are available upon request by contacting Ebac Industrial Products Ltd as listed on the back of this manual.

OZONE FRIENDLY

The gas which is used inside the hermitically sealed refrigeration circuit is R407c, which is an HFC. Under NO circumstances should this gas be released into the atmosphere. The unit should be serviced by trained personnel who will re-claim the removed gas.

DISPOSAL OF THE UNIT

At the end of the machines working life the refrigerant must be disposed of in the correct manner.

CONTACTING EIPL CUSTOMER SERVICES

If you have any further queries please contact the EIPL customer Services Department on 01388 664400 and have the following information to hand:

- Part Number and Serial Number of the machine(located on the rating plate at the front of the machine)
- Full name and address
- Where your machine was purchased



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	1021800	1021900	Units of
	UK	UK	Measure
Height:	915	915	mm
Width:	610	610	mm
Depth:	692	692	mm
Weight:	80	75	Kg
Airflow:	510	510	m3/min
Voltage:	230/110	230	V
Phase:	1	1	
Frequency:	50	50	Hz
Maximum Power:	1.5	1.5	kW
Maximum Current:	8/16	8	A
Generator Size:	1.5	1.5	kva
Fuse Rating:	13	13	A
Effective Volume:	300	300	m3
Refrigerant Type:	R407c	R407c	
Refrigerant Quantity:	0.54	0.54	Kg
Normal Extraction:	18	18	L/24hrs
Maximum Extraction:	82	82	L/24hrs
Noise Level:	Less than 70dba when running		
Finish:	Epoxy Coated Zintec Steel		
Mobility:	Light in construction and easily positioned		
Normal:	Rated Extraction at 15 ℃ 65% RH Conditions		
Maximum:	Rated Extraction at 45 °C 99% RH Conditions		

This machine has been manufactured in the United Kingdom

"This product contains fluorinated greenhouse gases covered by the Kyoto Protocol. The refrigeration system is hermetically sealed.

The Global Warming Potential (GWP) of refrigerants used in products manufactured by Ebac Industrial Products Ltd is as follows

> R134a – 1300 R407c – 1610

For type and weight of refrigerant contained in this unit, please refer to the product data label"



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This appliance can be used by children from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the application in a safe way and understand the hazards involved.

Children shall not play with the appliance.

Cleaning and user maintenance shall not be made by children without supervision.

If the SUPPLY CORD is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified person in order to avoid hazard.

This product contains fluorinated greenhouse gases covered by the Kyoto Protocol. The refrigeration system is hermetically sealed.

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For type and weight of refrigerant contained in this unit, please refer to the product data label

Due to the high pressures within the refrigeration circuit, under no circumstances must direct heat be applied to the evaporator coil in an attempt to remove the build-up of ice.

No attempt should be made to cut open any part of the refrigeration circuit due to high pressures and gas involved.

If the unit is switched off at the mains power supply for any reason, the unit must be allowed to stand at rest for at least three minutes before restarting.



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