



# 90L INDUSTRIAL DEHUMIDIFIER

## MODEL NO: SDH90

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to  
instructions



Do not cover



Indoor use  
only

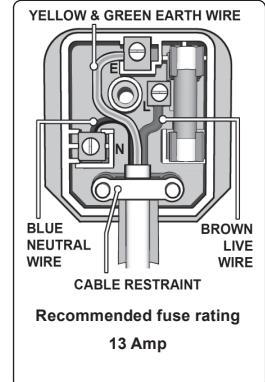


Caution:  
Risk of fire

## 1. SAFETY

### 1.1. ELECTRICAL SAFETY

- WARNING!** It is the responsibility of the owner and the operator to read, understand and comply with the following:  
You must check all electrical products, before use, to ensure that they are safe. You must inspect power cables, plugs, sockets and any other connectors for wear or damage. You must ensure that the risk of electric shock is minimised by the installation of appropriate safety devices. A Residual Current Circuit Breaker (RCCB) should be incorporated in the main distribution board. You must also read and understand the following instructions concerning electrical safety.
- Ensure that cables are always protected against short circuit and overload.
- Regularly inspect power supply cables and plugs for wear or damage and check all connections to ensure that none are loose.
- Ensure that the voltage marked on the appliance matches the power supply to be used and that the plug is fitted with the correct fuse - see fuse rating at right.
- DO NOT** use worn or damaged cables, plugs or connectors. Have any faulty item repaired or replaced immediately by a competent electrician.
- It is recommended that this device is wired directly to a fused isolator switch. If, however, a plug is fitted, the following applies:
- Fit a new plug according to the following instructions (UK only).  
a) Connect the GREEN/YELLOW earth wire to the earth terminal 'E'.  
b) Connect the BROWN live wire to the live terminal 'L'.  
c) Connect the BLUE neutral wire to the neutral terminal 'N'.  
d) After wiring, check that there are no bare wires, that all wires have been correctly connected, that the cable restraint is tight.



### 1.2. GENERAL SAFETY

- Check that the dehumidifier is in sound condition and good working order. Take immediate action to repair or replace damaged parts.
- Use recommended parts only. Unauthorised parts may be dangerous and will invalidate the warranty.
- DO NOT** stand or place any object less than 100cm from the front, or 50cm from the rear or sides of the unit.
- DO NOT** obstruct the air intakes or outlets of the dehumidifier.
- DO NOT** place any object into the outlets.
- DO NOT** operate the dehumidifier when you are tired or under the influence of alcohol, drugs or intoxicating medication.
- DO NOT** switch the dehumidifier off by disconnecting it from the mains. **ALWAYS** switch to the "OFF" position first.
- DO NOT** connect or disconnect the plug from the mains with wet hands.
- Always discard the water from the collection tank, **DO NOT** use it for any other purpose.
- Place the dehumidifier on a level and stable surface.
- DO NOT** use the dehumidifier at ambient temperatures below 5°C.
- DO NOT** use the dehumidifier outside.
- Ensure that heating appliances are not exposed to the flow of air from the dehumidifier.
- Switch off and disconnect it from the mains before attempting any cleaning or other maintenance work.
- Ensure that the dehumidifier is correctly turned off when not in use, and stored in a safe, dry area, out of reach of children. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience or knowledge if they have been given supervision or instruction concerning use of the appliance 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.

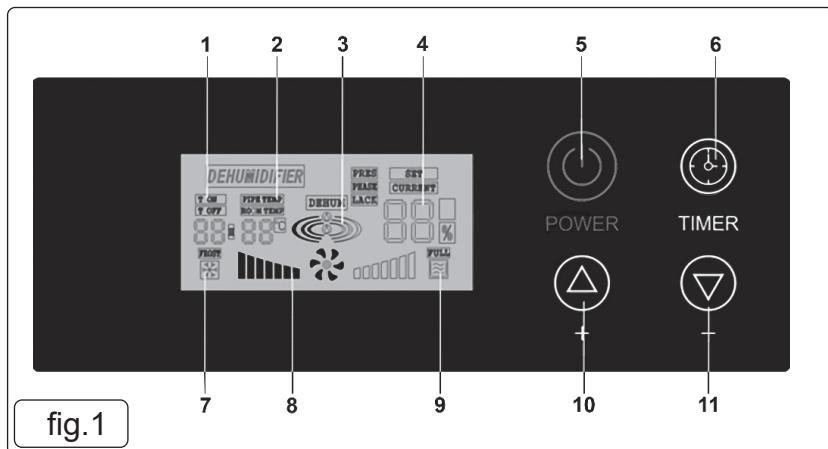
## 2. INTRODUCTION

Powerful dehumidification capacity, extracts up to 90 litres of water per day. Removes excess moisture from air, preventing build-up of mildew and mould. Features auto-defrost function, which activates if the room temperature falls too low. The unit has a 24hr timer function for delay starting and auto shut-off. Washable air filter. Refrigerant is environmentally friendly R290. Features a permanent drain hose for continuous operation. Mounted on castors for manoeuvrability.

### 3. SPECIFICATION

Model No: .....SDH90  
 CO2 Equivalent: .....0.0006t  
 Dehumidifying Capacity: .....90L/day(30°C RH80%)  
 Freezing Pressure (Max): .....2.5MPa  
 Global Warming Potential (Rating): .....3  
 IP Rating: .....IP22  
 Maximum Airflow: .....500m³/h  
 Power: .....1000W ( 27°C RH60%) 1350W(30°C RH80%)  
 Refrigerant: .....R290/0.30kg  
 Steaming Pressure (Max): .....1.0MPa  
 Supply: .....230V  
 Working Space: .....90-200m²  
 Working Temperature: .....5-35°C

### 4. OPERATION



ITEM	OPERATION
1	Timer Indicator
2	Temperature Indicator
3	Dehumidification Indicator
4	Humidity Indicator
5	ON/OFF Control
6	Time Set Control
7	Defrosting Indicator
8	Air Speed Indicator
9	Water Full Indicator
10	Increase Control
11	Decrease Control

BUTTON	OPERATION INSTRUCTIONS
ON/OFF (fig 1-5)	Changes between Switch on and Switch off.
+ (fig 1-10)	Adjust different set values in different states; 1. Increases the humidity value set (RH10% to 95%) 2. Increases the timing (hour) set (00 to 24)
- (fig 1-11)	Adjust different set values in different states; 1. Decreases the humidity value set (RH10% to 95%) 2. Decreases the timing(hour) set (00 to 24)
Timer (fig 1-6)	Short press the button to switch a cycle to off. Set on/off Timer and Exit

**NOTE:** Efficiency of the dehumidifier is influenced by the air outside the room. For operating efficiency, try to avoid opening and closing the windows and doors. For best performance, operate the dehumidifier within the usable operating temperature.

#### 4.1. OPERATION

- 4.1.1. Plug the unit in to the mains socket, a beep will be heard when inserting the plug.
  - 4.1.2. Press the "ON/OFF" switch and the operation light will illuminate, the humidity display will light to display the previous set humidity. The initial setting for humidity is 60%, after 3 seconds the display will show the current humidity.
  - 4.1.3. Press the humidity up or down buttons to adjust to the desired humidity required. If the required humidity is 3% below the current humidity the unit will start automatically, if the set humidity is 3% more than the current humidity the dehumidifier will automatically stop.
  - 4.1.4. When setting the humidity to less than 30%, the unit will run continuously and the display will read "CO".
  - 4.1.5. To shut the dehumidifier down press the "ON/OFF" switch.
- NOTE:** If the humidity setting is greater than the current humidity the unit will not run.
- WARNING!** The fan motor and compressor must run for at least 3 minutes while dehumidifying.
- DO NOT** start the dehumidifier immediately after shutting down, allow 3 minutes before restarting.
- #### 4.2. TIMER FUNCTION
- 4.2.1. To set Timer for power ON mode, with the unit in power OFF state, press the Timer button (fig 1-6). The Timer ON LED (fig 1-1) will flicker and the current set time will be displayed. Use the Increase/ Decrease buttons (fig 1-10, fig 1-11) to set the required value to between 0 and 24 hours. After 10 seconds the selected value is set and the Timer ON led will flicker.
  - 4.2.2. To set the Timer for power OFF mode, with the unit in power ON state, press the Timer button (fig 1-6). The Timer OFF LED (fig 1-1) will flicker and the current set time will be displayed. Use the Increase/ Decrease buttons (fig 1-10, fig 1-11) to set the required value to between 0 and 24 hours. After 10 seconds the selected value is set and the Timer OFF led will flicker.

#### 4.3. DEFROSTING

4.3.1. The defrosting device works automatically at an interval of approximately every 30 minutes for a duration of approximately 5 minutes when the coil temperature is tested to be <= minus 1°C.

The dehumidifying function will stop during the defrosting operation. **DO NOT** disconnect the plug or turn off the unit during the defrosting operation. The defrosting led light (fig 3-7) will light up.

**NOTE:** This dehumidifier does not have a cooling function, it produces heat during the operation and room temperature will rise by 1°C to 4°C. The temperature gets higher while it is operated in a closet, or similar. Furthermore, room temperature will rise because doors and windows are closed and heat is produced from other appliances in the room and from sun radiation.

#### 4.4. CONTINUOUS DRAINAGE

To allow for continuous operation a permanent drain hose is attached to the unit.

4.4.1. Securely place the end of the drain hose over a suitably sized container or drain.

**WARNING!** The outlet of the drain hose **MUST** be lower than the hose outlet on the side of the unit.

**WARNING!** Ensure that the drain hose is straight and free from any kinks and is angled downwards.

**DO NOT** allow the open end of the drain hose to be submerged into the contained water. This may cause an air lock in the hose.

### 5. MAINTENANCE

**WARNING!** Disconnect from mains power supply before performing any cleaning or maintenance.

#### 5.1. CLEANING THE AIR FILTER

The dehumidifying capacity is lowered when the air cleaning filter becomes clogged.

The air filter is located behind the front air inlet panel.

5.1.1. Remove the plug from the power source.

5.1.2. To access the air filter, remove the cross headed screw from the top of the front air inlet panel and place in a secure location.

5.1.3. Remove the front air inlet panel and place on a level surface.

5.1.4. Remove the filter element from the front air inlet panel.

5.1.5. To dislodge the dust from the filter, use a vacuum cleaner or tap it lightly.

5.1.6. If the filter is very dirty, wash it carefully in water with a neutral detergent, then rinse well with clean water and leave until dry.

5.1.7. Refit the air filter into the front air inlet panel and reattach the panel to the unit and secure with cross headed fixing screw.

#### 5.2. CLEANING

5.2.1. Wipe the dehumidifier over with a dry soft cloth. To remove dirt, wipe over with a very slightly dampened cloth (never use a wet cloth for cleaning the controls).

**DO NOT** use solvents.

#### 5.3. STORAGE

5.3.1. Drain any remaining water from the unit.

5.3.2. Unplug the unit from the power source and wrap the power cable around the brackets at the back of the unit.

5.3.3. Store the unit in an upright position, in a safe, dry childproof location.

5.3.4. Lock the castor wheels.

5.3.5. Avoid exposure to direct sunlight.

### 6. TROUBLESHOOTING

FAULTS		CAUSE ANALYSIS		SOLUTIONS
Fails to turn on	Shown as no power	No power to the wall socket.		Check the power supply
		Check the plug plugged in properly.		Plug the power supply in the socket
		Check the fuse is not blown.		Replace the fuse
		Power transformer is broken.		Replace the transformer
	Shown as power on	Environmental humidity lower than the set value.		Set again according to the demand
		If the water tank is installed correctly.		Place the water tank in right position
		If the entire machine is defrosting.		Wait for the completion of defrosting cycle
Unfavourable dehumidifying effect		If the air inlet/outlet is obstructed		Remove the obstacle
		If the door and window are open		Close the door and window
		If the indoor temperature is too low		Don't run the dehumidifier
Heavy noise		If the ground is firm and flat		Resettle the dehumidifier
		Dehumidifier is stood precariously		Resettle the dehumidifier
Water leakage		Dehumidifier stood on an incline		Move dehumidifier to a level surface
		Drain pipe/outlet obstructed		Dismantle the front plate to eliminate blockages
Error codes	E1	Coil sensor fault		Contact Sealey service centre
	E2/ E3	Fault of humidity & temperature sensor		Contact Sealey service centre
	EE	Refrigerant leakage		Contact Sealey service centre



#### ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.



#### WEEE REGULATIONS

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.

**Note:** It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

**Important:** No Liability is accepted for incorrect use of this product.

**Warranty:** Guarantee is 12 months from purchase date, proof of which is required for any claim.

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