INDUSTRIAL FAN HEATER WITH DUCTING

MODEL NO'S: **DEH2001.V2, DEH3001.V2, DEH5001.V2 & DEH10001.V2**

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

Hot surfaces

Do not cover

This product is only suitable for well insulated areas or occasional use.

1. SAFETY

1.1. ELECTRICAL SAFETY

❑ **WARNING!** It is the user's responsibility to check the following:

✓ Check all electrical equipment and appliances to ensure that they are safe before using. Inspect power supply leads, plugs and all electrical connections for wear and damage. Sealey recommend that an RCD (Residual Current Device) is used with all electrical products.

Electrical safety information. It is important that the following information is read and understood:

✓ Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply.

✓ Regularly inspect power supply cables and plugs for wear or damage and check all connections to ensure that they are secure.

Important: Ensure that the voltage rating on the appliance suits the power supply to be used and that the plug is fitted with the correct fuse.

× **DO NOT** pull or carry the appliance by the power cable.

× **DO NOT** pull the plug from the socket by the cable.

× **DO NOT** use worn or damaged cables, plugs or connectors. Ensure that any faulty item is repaired or is replaced immediately by a qualified electrician.

If the cable or plug is damaged during use, switch off the electricity supply and remove from use.

Ensure that repairs are carried out by a qualified electrician.

If an extension reel is used it should be as short as possible and fully unwound before connection. A reel with an RCD fitted is preferred since any appliance plugged into it will be protected. The cable core section is important and should be at least 1.5mm², but to be absolutely sure that the capacity of the reel is suitable for this product and for others which may be used in the other output sockets, we recommend the use of 2.5mm² section cable.

1.2. GENERAL SAFETY

❑ **WARNING!** Disconnect the heater from the mains power supply before carrying out any servicing or maintenance.

✓ Maintain the heater in good order and clean condition for best and safest performance. Replace or repair damaged parts.

✓ Locate heater in a suitable work area and keep area clean, tidy and free from unrelated materials. Ensure there is adequate lighting and keep the immediate area in front of the outlet grille clear.

❑ **WARNING!** In order to avoid overheating, do not cover the heater.

✓ Allow the unit to cool before storage. When not in use, disconnect from the mains power supply and store in a safe, cool, dry, childproof area.

✓ Only use the heater standing in the upright position on a level surface.

× **DO NOT** use the heater where there are flammable liquids, solids or gases such as petrol, solvents, aerosols etc, or where heat sensitive materials may be stored.

× **DO NOT** place the heater near items that may be damaged by heat, allow at least 2m clearance in front of the heater.

× **DO NOT** allow the heater to get wet as this may cause an electric shock, causing damage to the heater and possible personal injury.

✓ The appliance shall be disconnected from its power source during service and when replacing parts and, if that the removal of the plug is foreseen, it shall be clearly indicated that the removal of the plug has to be such that an operator can check from any of the points to which they have access that the plug remains removed.

× The heater must not be located immediately below a socket outlet."

× **DO NOT** let power lead hang over an edge (i.e. table), or touch a hot surface, lie in the beam of heat, or run under a carpet.

✓ If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

× **DO NOT** use this heater in the immediate surroundings of a bath, a shower or a swimming pool.

× **DO NOT** operate the heater when you are tired or under the influence of alcohol, drugs or intoxicating medication.

× **DO NOT** insert or allow objects to enter any openings of heater as this may cause an electric shock, fire or damage to heater.

× **DO NOT** use heater if the power cord, plug or the heater is damaged, or if the heater has become wet.

× **DO NOT** use the heater for any purpose other than for which it is designed.

× **DO NOT** use a timer or other remote device to operate the heater.

× **DO NOT** allow children to touch or to operate the heater.

× **DO NOT** site the heater below an electrical socket outlet.

× **DO NOT** use the heater without the grille fitted.

× **DO NOT** use the heater out of doors. These heaters are designed for indoor use only.

× **DO NOT** cover heater when in use, and **DO NOT** obstruct the air inlet and outlet grilles.

× **DO NOT** place heater too close to yourself or any object, allow the air to circulate freely.
× **DO NOT** touch the outlet grille of the heater during and immediately after use as it will be hot.
× **DO NOT** use if this heater has been dropped.
× **DO NOT** use if there are visible signs of damage to the heater.

1.3. OPERATIONAL PRECAUTIONS

✓ Use this heater on a horizontal and stable surface, or fix it to a wall as applicable.
❑ **WARNING! DO NOT** use this heater in small rooms when they are occupied by persons not capable of leaving the room on their own, unless constant supervision is provided
❑ **WARNING!** To reduce the risk of fire, keep textiles, curtains, or any other flammable material a minimum distance of 1m from the air outlet."
✓ The heater must only be used by people who have read these instructions and have been trained in its use.
× **DO NOT** obstruct the air inlet and outlet sections of the heater.
× **DO NOT** touch the heater casing or grille when first switched off, as these will be very hot and will take time to cool.
✓ Children of less than 3 years should be kept away unless continuously supervised.
× Children aged from 3 years and less than 8 years shall not plug in, regulate and clean the appliance or perform user maintenance.
CAUTION some parts of this product can become very hot and cause burns. Particular attention has to be given where children and vulnerable people are present.

2. INTRODUCTION

Electric fan heaters with ducting for industrial applications. Model No. DEH2001 features one heat setting, Model Nos. DEH3001, DEH5001 and DEH10001 feature two heat settings. All units have thermostat control and fan only options. A totally dry heat with no condensation, no gas, no fumes and no smell. Ideal for workshops and garages. Model No. DEH2001 is supplied with 6m ducting hose, power cable and 3-pin plug. Model No DEH3001 is supplied with 6m ducting hose and power cable. DEH5001 is supplied with 6m ducting hose, 3ph power cable and 16A plug. DEH10001 is supplied with 6m ducting hose, 3ph power cable and 32A plug.

3. SPECIFICATION

Model No:	**DEH2001**	**DEH3001**	**DEH5001**	**DEH10001**
Power:	2000W	1500/3000W	2500/5000W	5000/10000W
Supply:	230V - 13A	230V - 16A	400V/3ph - 16A	400V/3ph - 32A
Airflow:	320m³/h	348m³/h	739m³/h	1063m³/h
Size (WxDxH):	310 x 210 x 340mm	310 x 210 x 340mm	400 x 240 x 360mm	440 x 300 x 430mm
Plug Type:	3-Pin BS	Bare Wire	Red - 16A-4P+E	Red - 32A-4P+E
Power Supply Cable Length:	1.2m	1.4m	1.2m	1.2m

4. CONNECTION (DEH10001)

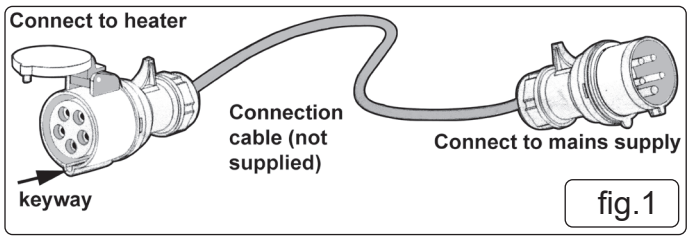
4.1. CONNECTING DEH10001 TO MAINS SUPPLY see fig.1

4.1.1. The DEH10001 heater is supplied with a protected 5 pin connector mounted on the side of the control housing. In order to connect to the mains it will be necessary to have the extension cable shown in fig.1 made up by a qualified electrician. (This connector is not supplied with the machine.) The cable should be no shorter than 1.8m and no longer than 3m.

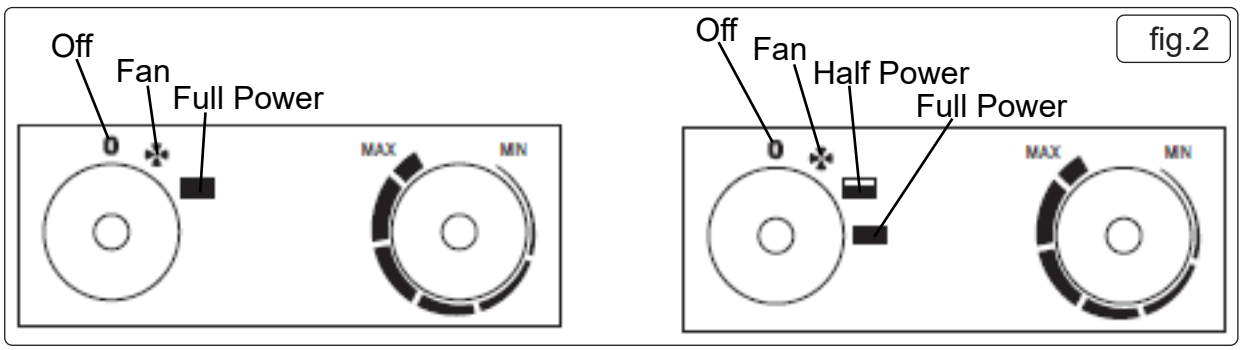
4.1.2. Before connecting the DEH10001 to the mains ensure that the selector switch is set to OFF and the thermostat is set at minimum.

4.1.3. Hold open the protective cover on the socket connector on the extension lead as shown above and present it to the heater connector in the correct orientation so that the spigot on the heater connector passes into the keyway on the socket connector. Push the socket connector fully home.

4.1.4. Connect the other end of the extension cable to the mains supply.



5. OPERATION REFER TO FIG.2



5.1. Position the fan heater so that it stands upright on a firm surface and at a safe distance from wet environments and flammable objects.
❑ **WARNING!** Always allow elements to cool before moving the units. Use only on a smooth even surface.
5.2. Connect the fan heater to the mains (see section 4 for DEH10001).
5.3. Set the thermostat knob to the MAX and let the heater operate at full power.

5.4. The fan heater will switch on when the heating selector is set to one of the power settings.

5.5. Once the room reaches the required temperature, the heating element will stop working but the fan will keep working. Once the room temperature goes below the set temperature, the heating element will start working. The fan heater will start and stop automatically keeping the room temperature constant.

5.6. Before switching off the heater, please turn the thermostat to MIN position and turn the switch to the fan position, let the appliance cool down for two minutes then turn off the heater and pull out the plug.

6. MAINTENANCE

❑ **WARNING!** Before cleaning the appliance, disconnect it from the mains and let it cool down.

6.1. The cover can easily get dirty, wipe it often with a soft cloth. To clean dirt off of the cover, wipe with a clean sponge dipped in <50°C water and mild detergent, then dry the heater cover with a clean cloth. Be careful not to let water enter the appliance.

× **DO NOT** splash water onto the heater, never use solvent like gasoline etc. to clean the heater, in order to protect the cover.

6.2. When you store the heater, let it cool down first, keep it dry. Then cover it with a plastic bag, put in a packing box and store it in a dry, ventilated place.

7. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	TREATMENT
The heater does not operate,even when it is plugged in and the switch and thermostat are switched on.	The plug is loose, or there is a bad connection	Pull out the plug, check the connection of the plug and socket.
	No power in socket outlet	Insert the plug in a proper socket
The heating element is glowing	The input voltage is too high or too low	Use power supply according to the rating on the label
	The air inlet grill is blocked	Keep the heater away from articles like curtains, plastic bags, paper and other things that can cover the inlet or can easily cover the air inlet
The appliance didn't heat up, or only the fan worked	The switch was not turned to a heat setting	Turn the switch to heat setting
	The thermostat operated	Turn the thermostat down wait for it to cool and then turn the thermostat up. If there is no click and the thermostat is not damaged, the heater will automatically switch on when the appliance has cooled down
	The self-resetting cut-out operated	Turn the heater off and inspect the blockage of inlet or outlet. Disconnect the plug and wait at least 10 minutes for the protection system to reset before attempting to restart the heater.
Abnormal noise	The appliance is not stood upright	Put the heater on a level surface

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.

REGISTER YOUR PURCHASE HERE

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. Please note that other versions of this product are available. If you require documentation for alternative versions, please email or call our technical team on technical@sealey.co.uk or 01284 757505.

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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Information requirements for electric local space heaters

Model identifier(s): DEH2001 v2

Item	Symbol	Value	Unit
Heat output			
Nominal heat output	P_{nom}	2.000	kW
Minimum heat output (indicative)* ** Enter figure or NA*	P_{min}	2.000	kW
Maximum continuous heat output	$P_{max,c}$	2.000	kW
Power consumption			
In off mode	P_o	0.00	W
In standby mode	P_{sm}	0.00	W
In idle mode	P_{idle}	0.00	W
In network standby	P_{nsm}	0.00	W
Stanby mode with display information or status		NO	
Seasonal space heating energy efficiency in active mode	$\eta_{s,on}$	85	%

Item	Unit
Type of heat output/room temperature control (select one)	
Single stage heat output and no room temperature control	Yes No ✓
Two or more manual stages, no room temperature control	Yes No ✓
With mechanic thermostat room temperature control	Yes ✓ No
With electronic room temperature control	Yes No ✓
Electronic room temperature control plus day timer	Yes No ✓
Electronic room temperature control plus week timer	Yes No ✓
Other control options (multiple selections possible)	
Room temperature control, with presence detection	Yes No ✓
Room temperature control, with open window detection	Yes No ✓
With distance control option	Yes No ✓
With adaptive start control	Yes No ✓
With working time limitation	Yes No ✓
With black bulb sensor	Yes No ✓
With self-learning functionality	Yes No ✓
With control accuracy	Yes No ✓

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Information requirements for electric local space heaters

Model identifier(s): DEH3001 v2

Item	Symbol	Value	Unit
Heat output			
Nominal heat output	P_{nom}	3.000	kW
Minimum heat output (indicative)* ** Enter figure or NA*	P_{min}	1.500	kW
Maximum continuous heat output	$P_{max,c}$	3.000	kW
Power consumption			
In off mode	P_o	0.00	W
In standby mode	P_{sm}	0.00	W
In idle mode	P_{idle}	0.00	W
In network standby	P_{nsm}	0.00	W
Stanby mode with display information or status		NO	
Seasonal space heating energy efficiency in active mode	$\eta_{s,on}$	85	%

Item	Unit
Type of heat output/room temperature control (select one)	
Single stage heat output and no room temperature control	Yes No ✓
Two or more manual stages, no room temperature control	Yes No ✓
With mechanic thermostat room temperature control	Yes ✓ No
With electronic room temperature control	Yes No ✓
Electronic room temperature control plus day timer	Yes No ✓
Electronic room temperature control plus week timer	Yes No ✓
Other control options (multiple selections possible)	
Room temperature control, with presence detection	Yes No ✓
Room temperature control, with open window detection	Yes No ✓
With distance control option	Yes No ✓
With adaptive start control	Yes No ✓
With working time limitation	Yes No ✓
With black bulb sensor	Yes No ✓
With self-learning functionality	Yes No ✓
With control accuracy	Yes No ✓

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Information requirements for electric local space heaters

Model identifier(s): DEH5001 v2

Item	Symbol	Value	Unit
Heat output			
Nominal heat output	P_{nom}	5.000	kW
Minimum heat output (indicative)* ** Enter figure or NA*	P_{min}	2.500	kW
Maximum continuous heat output	$P_{max,c}$	5.000	kW
Power consumption			
In off mode	P_o	0.00	W
In standby mode	P_{sm}	0.00	W
In idle mode	P_{idle}	0.00	W
In network standby	P_{nsm}	0.00	W
Stanby mode with display information or status		NO	
Seasonal space heating energy efficiency in active mode	$\eta_{s,on}$	85	%

Item	Unit
Type of heat output/room temperature control (select one)	
Single stage heat output and no room temperature control	Yes No ✓
Two or more manual stages, no room temperature control	Yes No ✓
With mechanic thermostat room temperature control	Yes ✓ No
With electronic room temperature control	Yes No ✓
Electronic room temperature control plus day timer	Yes No ✓
Electronic room temperature control plus week timer	Yes No ✓
Other control options (multiple selections possible)	
Room temperature control, with presence detection	Yes No ✓
Room temperature control, with open window detection	Yes No ✓
With distance control option	Yes No ✓
With adaptive start control	Yes No ✓
With working time limitation	Yes No ✓
With black bulb sensor	Yes No ✓
With self-learning functionality	Yes No ✓
With control accuracy	Yes No ✓

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Information requirements for electric local space heaters

Model identifier(s): DEH10001 v2

Item	Symbol	Value	Unit
Heat output			
Nominal heat output	P_{nom}	10.000	kW
Minimum heat output (indicative)* ** Enter figure or NA*	P_{min}	5.000	kW
Maximum continuous heat output	$P_{max,c}$	10.000	kW
Power consumption			
In off mode	P_o	0.00	W
In standby mode	P_{sm}	0.00	W
In idle mode	P_{idle}	0.00	W
In network standby	P_{nsm}	0.00	W
Stanby mode with display information or status		NO	
Seasonal space heating energy efficiency in active mode	$\eta_{s,on}$	85	%

Item	Unit
Type of heat output/room temperature control (select one)	
Single stage heat output and no room temperature control	Yes No ✓
Two or more manual stages, no room temperature control	Yes No ✓
With mechanic thermostat room temperature control	Yes ✓ No
With electronic room temperature control	Yes No ✓
Electronic room temperature control plus day timer	Yes No ✓
Electronic room temperature control plus week timer	Yes No ✓
Other control options (multiple selections possible)	
Room temperature control, with presence detection	Yes No ✓
Room temperature control, with open window detection	Yes No ✓
With distance control option	Yes No ✓
With adaptive start control	Yes No ✓
With working time limitation	Yes No ✓
With black bulb sensor	Yes No ✓
With self-learning functionality	Yes No ✓
With control accuracy	Yes No ✓

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