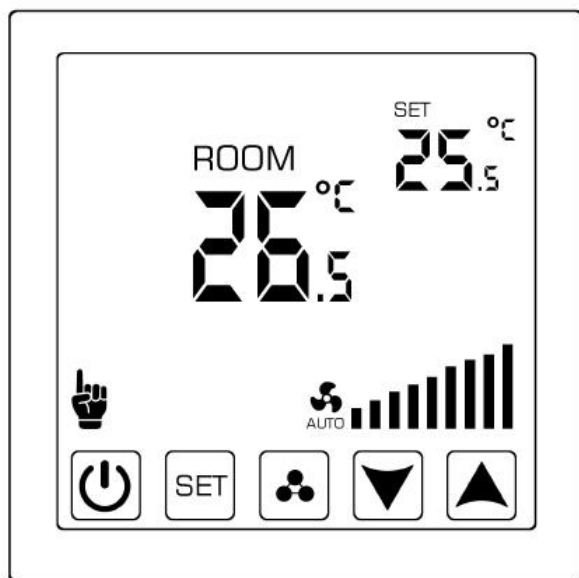


INSTALLATION/OPERATION INSTRUCTIONS

Single Speed Heat Transfer

**HEAT TRANSFER CONTROLLER FOR USE WITH SINGLE SPEED FAN
(FV601 AND FV662 KITS)**



Increase key : adjust temperature and value
Setting key (NOT USED)



Decrease key : adjust temperature and value
Turn ON/OFF



For your safety please follow the installation and operating instructions

GENERAL USE AND SAFETY INFORMATION

This digital controller has been designed to ensure highly effective transfer of heated air throughout your home. The large screen is designed for easy and straightforward setup of your heat transfer system, using a high precision built-in sensor with custom sensing algorithm to accurately determine room temperature and improve system stability.

NOTE: THESE UPDATED INSTALLATION AND OPERATION INSTRUCTIONS SUPERSEDE ANY INSTRUCTIONS ON THE CARTON CHECK OUR WEB SITE FOR ANY UPDATES.

PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE COMMENCING INSTALLATION.

Note: Pictures and diagrams on packaging are designed only to be used as a concept. All installation details should be carried out as per the instructions herein.

- **Note: Note The electrical connection of this product must be completed by an authorized person and must comply with all local electrical regulations. Do not cut the plug off this product.**
- **Before starting check our website for any updates to installation and operating instructions: <https://www.thehvacshop.co.nz/instructions>**

SUITABILITY

The controller constantly monitors the room and set temperatures. When the heat source provides heat to the room and raises the room temperature above the set temperature, the controller will detect this increase and turn the fan on.

BEFORE YOU START

ER12D-1 **DIGITAL HEAT TRANSFER CONTROLLER** must not be mounted in areas subject to direct splashing. Refer to New Zealand standard NZECP2: 1988 Section 4.6 and Australian Standard AS3000:1991, Section 6.2.

SAFETY NOTE

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

To avoid a hazard, a damaged supply cord must be replaced by the manufacturer. This includes the removal of the supply cord as this appliance is supplied as compliant. Modification including removal of the plug or cutting of the supply cord (fitted to any motor) will render the unit NON-COMPLIANT.

INSTALLATION INFORMATION

IMPORTANT

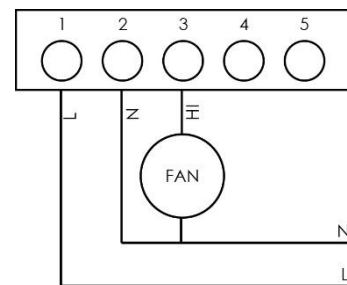
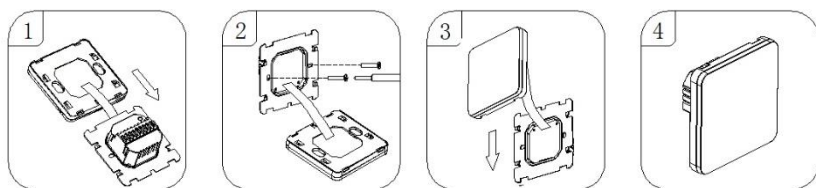
Selecting the mounting location

- The controller is for internal use only.
- Mount approx. 1.5 metres above the floor on an inner wall near the heat source.
- The controller must be placed within the same room as the heat source.
- Avoid locations which are not affected by the heat source, e.g. other side of the room or around a corner.
- Do not mount on hot surfaces or surfaces exposed to direct sunlight.

FOR OPTIMUM PERFORMANCE – Installation Instructions

1. Open the controller by placing your thumb on the bottom edge of the thermostat unit and using your other fingers to apply pressure to the rear portion of the unit. Sliding the rear portion toward your thumb will expose the mounting holes.
2. Choose a mounting position on the wall and cut a 50mm x 50mm hole in the wall gib, avoiding any structure timber framing or wiring contained behind.
3. See **Wiring Diagram** below to connect the fan.
4. After connecting the required wiring, mount the base of the controller with the 2 screws, noting the direction of the display is correct.

5. Reconnect the interconnect cable to the display front.
6. Replace the cover by placing over the metal clips located on the base and slide in a downward direction. *Note: Do not use excessive force to fit the cover.*





HOW TO CONNECT UP A ER12D-1 DIGITAL CONTROLLER


1. Connect a **BROWN** active line to **L (TERMINAL 1)** at the rear of the control unit.
2. Connect a **BLUE** Neutral line to **N (TERMINAL 2)** at the rear of the control unit.
3. Connect the **BROWN** Active line from the fan to **HI (TERMINAL 3)** at the rear of the control unit.
4. Connect the **BLUE** Neutral line from the fan to **N (TERMINAL 2)** at the rear of the control unit.
5. The controller is then set to the temperature that is required to be maintained in the room with the main heat source (the room with the controller) using the up and down arrows to modify the smaller number (top right of display).

Note: Approximate means of disconnection are required to be incorporated in the fixed wiring. This product must be installed **by an authorized person.**

Display information

Power OFF  System is Off. The fan will be switched off and the controller switches to standby mode.

Set Minimum Room Temperature – The controller adjusts the heat transfer rate according to the set temperature. Adjust the set temperature using the Adjust Up  and Down  buttons.

Mode  As a Heat Transfer specific controller, this controller is locked into Heat Transfer mode and cannot be switched to an alternative mode.

CORRECT CONTROLLER OPERATION FOR SINGLE SPEED MOTOR

With a single speed heat transfer system (FV601/FV662) the thermostat must be set to High Speed for the fan to operate.

To set high speed press the  button repeatedly until the full speed indicator is displayed on the thermostat screen: 

IMPORTANT WARRANTY INFORMATION

- Heat Transfer units are Not for use with a heat pump
- Do not completely close off adjustable outlet vents
- The unit should be checked annually for correct operation.
- This controller has been designed to work with AC Fans only.
- The cost to remove and replace a defective product, that was supplied with a plug but instead has been hardwired will not be covered by the warranty.
- Do not cover the heater or fan units with any insulating materials.

- Not for use in bathroom wet zones
- All products supplied with a plug have a return to base warranty.
- Airflow Engineering (SI) Ltd reserves the right to alter designs and specifications without notice or liability.
- Incorrect use, wiring, installation or modification of a product means it is not covered by the warranty
- The electrical connection of this product must be completed by an authorized person and must comply with all local electrical regulations, a Certificate of compliance (COC) is required for a warranty claim.
- Full Warranty information is available on our web site:
- Incorrect wiring or installation is not covered by warranty

QUESTIONS AND ANSWERS

Can I place the controller in a different room from the fireplace/heat source?

No. The controller must be mounted in the same room as your heat source. Make sure that the controller is in a position where it can easily detect changes in the room temperature from your heat source, e.g. 2-4 metres away from the heat source. Do not place the controller in the hallway or near the doorway, around a corner from the heat source, or far away (>6 metres) from the heat source in a large room.

How far away from the heat source should I place the fan?

You should keep at least 1.5 metres of distance between the heat source extraction point and the fan. However, the recommended distance between the extraction point and the fan is 3 metres.

IMPORTANT NOTES

Troubleshooting: The control panel has built-in error detection and may display the following faults:

Sensor fault will display  and "E1" and "E2".

E1: Sensor short circuit alarm

E2: Sensor open circuit alarm

When temperature higher than 55°C displays "HI"

When temperature lower than 0°C displays "LO"

Technical Specifications

Set Temperature Range:	5 - 35°C	Sensing Element:	NTC
Temperature Resolution:	0.5°C	Operating Temperature:	0 to 50°C
Operating Voltage/Frequency:	220V 50/60Hz	Approval:	All relevant AS/NZS standards
		EMC Approval:	All relevant AS/NZS standards

- The unit should be checked annually for correct operation.
- This controller has been designed to work with AC Fans only.

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