OPERATION INSTRUCTIONS FOR THE DUCTSTAT® TEMPERATURE SENSITIVE SWITCH™

READ AND SAVE THESE INSTRUCTIONS IMPORTANT SAFETY INSTRUCTIONS

MODEL: DS100

With the use of any electrical appliance, it is important to observe all basic precautions to minimize the risk associated with use, such as electrical shock, fire, or injury to persons.
Read these instructions before using your DuctStat® Temperature Sensitive Switch™.
If you have doubts or are unfamiliar with this type of installation work, seek the services of a qualified electrician.
Suncourt Inc. assumes no responsibility for installation of the DuctStat®.
For your safety and protection, follow all instructions and adhere to applicable building and/or electrical codes.
This unit is equipped with a three prong grounded plug. Do NOT attempt to defeat this feature of this plug. Defeating this will void the warranty.
Do not use the DuctStat® outdoors.
Do not use the DuctStat® in damp or wet locations.

NEVER EXPOSE YOUR DUCTSTAT TO TEMPERATURES OVER 140°F (60°C)

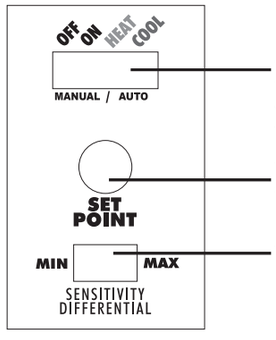
INSTALLATION NOTES

In order to prevent excessive stress on the mounting screws, support the DuctStat® unit when unplugging connected devices.
Do NOT use the DuctStat® outdoors or in damp locations. The DuctStat® must remain accessible.
The DuctStat® is intended to control the automatic On/Off operation of In-Line Duct Fans™ installed in the ductwork of forced air distribution systems.
The DuctStat® can also control the line voltage to any electrical device with a maximum current draw of 5 Amperes.
The DuctStat® is equipped with an external, replaceable 5 AMP fuse to protect the electronic circuitry from overload or short circuits.

This device is designed to turn on and off from temperature rise and fall. It does not have specific temperature settings on the control knob. The DS100 will turn on in HEAT mode when it senses temperature rise. The DS100 will turn on in COOL mode when it senses temperature fall.

INSTALLATION INSTRUCTIONS

1. Locate the position between the In-Line Duct Fan™ and the register where you wish to mount the DuctStat®. Mount between 1 and 10 feet downstream from the In-Line Duct Fan™.
2. Tape the template supplied with the DuctStat® to the air duct to mark the mounting holes to be drilled.
3. Drill a hole in the air duct for the Air Intake Hole shown on the template. This hole should be 1/2" in diameter.
4. Drill holes in the air duct to line up with the appropriate holes located on the template. On round ducts, two screws placed through the slots in the DuctStat® unit's base will be adequate (placement shown on template). On square or rectangular ducts use four screws, one at each corner of the DuctStat® (placement shown on template).
5. Tighten the supplied screws snugly in the appropriate placement for your ductwork. DO NOT OVER TIGHTEN
6. Wire a grounded power cord to the In-Line Duct Fan™ and plug into the outlet on the face of the DuctStat® unit.
7. Plug the DuctStat® power cord into a 110 volt grounded household outlet.
8. Follow Operation/Settings to adjust the DuctStat® unit.



CONTROL PANEL

Function switch selections:
OFF to stop operation of the device.
ON for continuous running of device.
AUTO HEAT for automatic on/off on temperature rise.
AUTO COOL for automatic on/off on temperature fall.

The rotary Set Point knob selects the automatic on/off temperature setting for both heating and cooling.

The Sensitivity Differential switch provides control over on/off cycling.

OPERATION SETTINGS

If you need the DuctStat® to work as a thermostat please follow the guidelines below. The DuctStat® will turn on and off between 2-6 degrees of the ambient temperature when you make your settings.

When switch is on "HEAT" the DuctStat® will turn ON as it warms up.

1. Plug in the DuctStat® and set the Manual/Auto switch to OFF.
2. Set the Sensitivity Differential to MIN.
3. Plug the device you want to control into the DuctStat®.
4. Turn the SET POINT KNOB clockwise until it stops. Use a small screwdriver for this. DO NOT FORCE.
5. Turn the Manual/Auto switch to ON. You should see/hear the device that is plugged into the DuctStat® turn on.
6. Turn the Manual/Auto switch to HEAT. At this point the device plugged into the unit will turn off.
7. Slowly turn the SET POINT KNOB counter-clockwise, just until the DuctStat® turns the device plugged in ON.
8. Slowly turn the SET POINT KNOB clockwise, just until the DuctStat® turns the device plugged in OFF.
9. The DuctStat® is now set to turn on when the temperature rises 2-3 degrees. If you would like the unit to have a wider range, simply switch the Sensitivity Differential to MAX. This will turn the device on and off with a 4-6 degree rise in temperature.

When the switch is on "COOL" the DuctStat® will turn ON as it cools off.

1. Plug in the DuctStat® and set the Manual/Auto switch to OFF.
2. Set the Sensitivity Differential to MIN.
3. Plug the device you want to control into the DuctStat®.
4. Turn the SET POINT KNOB counter-clockwise until it stops. Use a small screwdriver for this. DO NOT FORCE.
5. Turn the Manual/Auto switch to ON. You should see/hear the device that is plugged into the DuctStat® turn on.
6. Turn the Manual/Auto switch to COOL. At this point the device plugged into the unit will turn off.
7. Slowly turn the SET POINT KNOB clockwise, just until the DuctStat® turns the device plugged in ON.
8. Slowly turn the SET POINT KNOB counter-clockwise, just until the DuctStat® turns the device plugged in OFF.
9 The DuctStat® is now set to turn on when the temperature rises 2-3 degrees. If you would like the unit to have a wider range, simply switch the Sensitivity Differential to MAX. This will turn the unit on and off with a 4-6 degree rise in temperature.

FOR HEATING

Position the Function switch to Auto HEAT.

STEP ONE
Turn counterclockwise until fan motor runs.

STEP TWO
Turn clockwise to the point where the fan motor just stops.

FOR COOLING

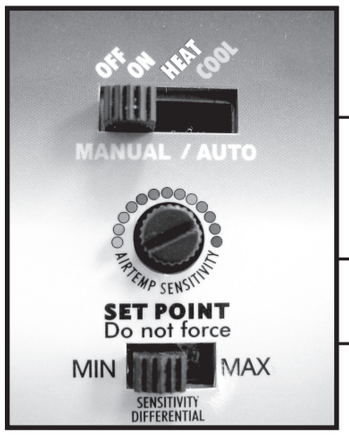
Position the Function switch to Auto COOL.

STEP ONE
Turn clockwise until fan motor runs.

STEP TWO
Turn counterclockwise to the point where the fan motor just stops.

IMPORTANT NOTE

To shorten the length of time that your device continues to run after the warming or cooling air has shut off, rotate the Set Point knob control slightly further, as in Step Two.
Should you experience frequent On/Off cycling, move the Sensitivity Differential switch to the MAX position.



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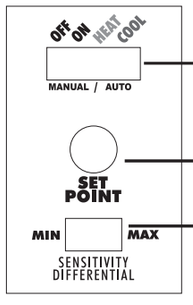
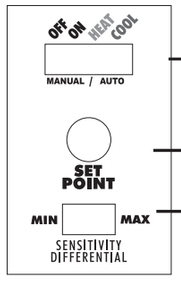


PANEL DE CONTROL

Funciones del interruptor de selecciones:
OFF: para parar la operación del dispositivo.
ON: para el funcionamiento continuo del dispositivo.
AUTO HEAT: para con/desc automático en subida de temperatura.
AUTO COOL: para con/desc automático el caída de la temperatura.

El rotatorio SET POINT la perilla selecciona el automático ON/OFF ajuste de temperatura para la calefacción y refrescarse.

El SENSITIVITY DIFFERENTIAL cambie proporciona control sobre el ciclo ON/OFF.

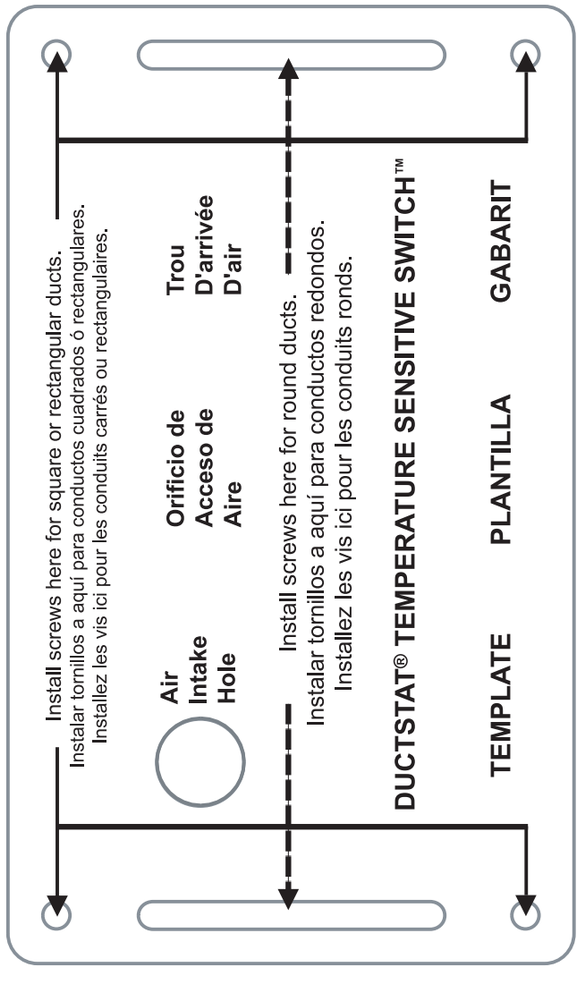


PANNEAU DE COMMANDE

Commutateur de fonction positionne:
OFF: Arrêt du dispositif.
ON: Fonctionnement continu du dispositif.
AUTO HEAT: Démarrage automatique et arrêt lorsqu'il existe une élévation de la température.
AUTO COOL: Démarrage automatique et arrêt lors de la diminution de la température.

Le bouton rotatif SET POINT selectionne le réglage ON/OFF automatique de température pour le chauffage et le refroidissement.

L'interrupteur SENSITIVITY DIFFERENTIAL fourni le contrôle sur le cycle ON/OFF.



HEAT-COOL SETTING LOGIC

If you want the DuctStat® to turn a device on when the temperature rises above your set point you put it on the heat setting. If you want the DuctStat® to turn a device on when the temperature falls below your set point you will want to put it on its cool setting. The DuctStat® will deactivate when the temperature returns to your predetermined set point.

ONE YEAR WARRANTY

Subject to the following limitations, Suncourt Inc. (manufacturer) warrants that the DuctStat® Temperature Sensitive Switch™ will, for 1 (one) year from date of original retail purchase, but not exceeding 2 (two) years from date of manufacture, remain free from appearance of defects in workmanship or materials. This warranty is subject to the following limitations: (a) manufacturer's liability is limited to the replacement or repair of the unit, as decided by the manufacturer; (b) a defective unit must be returned, prepaid, with proof of purchase, well packaged to avoid damage in transit; and (c) this warranty does not apply to defects resulting from the alteration, abuse, accidental damage, unauthorized repair, or misuse of the unit. This warranty is given in lieu of all other warranties, guarantees, and conditions on manufacturer's part, and the manufacturer shall have no tortious or other liability in respect to this DuctStat® Temperature Sensitive Switch™.

Actual product appearance may differ from illustrations.

Suncourt reserves the right to modify any or all of its products' features, designs, components and specifications without notice.

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