

Provide automatic summer-winter changeover in hydronic heating and cooling systems.

- Encapsulated switch hermetically sealed against moisture.
- Mount directly on copper tubing or pipe.
- Supplied with wirenuts and spring mounting clip.

SETPOINT: 74°F (23°C) nominal, fixed.  
DIFFERENTIAL: 14°F (8°C) nominal, fixed.  
SWITCH ACTIVATION:

Hot Water Temperature: 88°F (31°C) or higher.  
Chilled Water Temperature: 60°F (16°C) or lower.

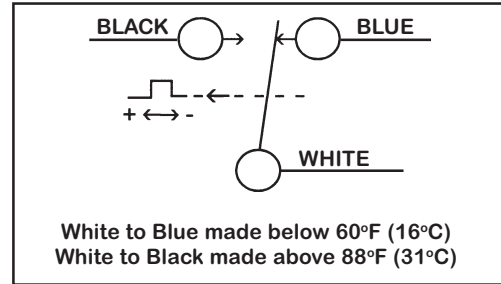
SWITCH ACTION: SPDT, snap acting.

SWITCH RATING: 5.8 amps @ 120 vac; 2.9 amps @ 240 vac;  
125 va pilot duty.



FLUID TEMPERATURE: 210°F (99°C) maximum.  
ELECTRICAL CONNECTIONS: 36-inch leadwires, 16 awg.  
MOUNTING: Directly on 5/8" to 7/8" OD copper, or 1/2" OD iron pipe with mounting spring provided.  
SENSING ELEMENT: Bimetal disc.  
CASE MATERIAL: Steel, hermetically sealed.  
DIMENSIONS: 2" Diameter (51mm) x 1.5"H (38mm).

Model	Switch Action	Description
TC-685	SPDT	without conduit connector
TC-686	SPDT	with 1/2" conduit connector



**ET, ETD Series**  
**LINE VOLTAGE THERMOSTATS**  
**SPST; SPDT**

Provide two-position on/off control of line voltage valves, motors, contactors, electric heating elements and other HVAC equipment in response to changes in space temperature.

- Mount directly in standard 2" x 4" vertical electrical box.
- For heating only or cooling only.
- Dual °F/°C setpoint scale on faceplate.

APPROVALS: U.L. listed; CSA certified.  
SETPOINT RANGE: 50°F to 90°F, 10°C to 32°C.  
DIFFERENTIAL: 2°F heating; 4°F cooling.  
SENSING ELEMENT: Bimetal.  
SWITCH TYPE: Snap acting.  
COLOR: Shadow white.



**ELECTRICAL RATINGS:**

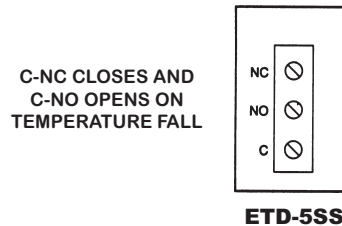
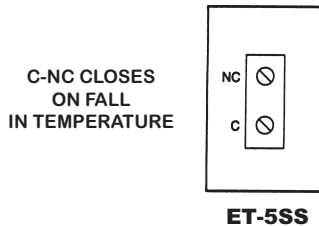
Non-Inductive: 22 amps @ 125 to 277 vac.  
Inductive: 3/4 HP @ 125 vac; 1-1/2 HP @ 250/277 vac.

MOUNTING: In 2" x 4" electrical switch box.

WIRING TERMINALS: Screw.

DIMENSIONS:

Exposed to Room: 4.75"H x 2.75"W x 1"D (121 x 70 x 25.4mm).  
Switch Recess: 1.25" (31.75 mm) into electrical box.



Model	Switch Type	Application	Thermometer	System/Fan Switch
ET-5SS	SPST	Heating only	none	none
ETD-5SS	SPDT	Heating only or Cooling only		