



Industrial Thermostat Options for Assemblies

We use industrial thermostats to build assemblies for use in more complex devices. Select from value-added services such as adding wire leads, building enclosures, or potting services to ensure your product's success.

For more information and to start your next project, contact us today:

- www.decamanufacturing.com
- Call: 419-884-0071

GT Series, Ceramic Disc Thermostats

DECA Manufacturing offers the GT line of 1/2" disc fixed temperature thermostats. Approved by numerous testing agencies, all GT thermostats pass a series of rigorous quality control checks including continuity, function, contact resistance and dielectric strength. Excellent multipurpose thermostat available in both automatic reset and push button manual reset configurations. A wide range of operating temperatures, as well as a small size and a variety of physical configurations, permit the flexibility to meet your specific needs.

Features

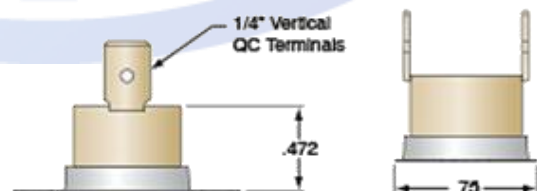
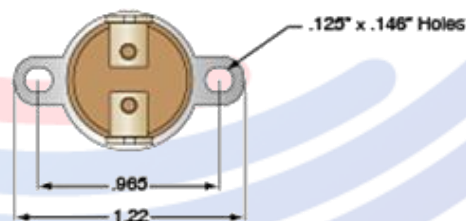
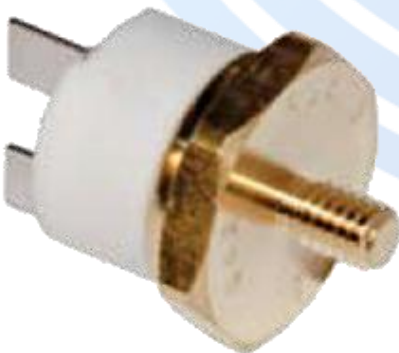
- Factory pre-set fixed temperature
- Normally open or normally closed contact configurations
- Current rating: to 15 Amp@ 120 Vac, 10 Amp@250 Vac
- Available temperatures from 0°C to 177°C
- Controlling or limit functionality
- Brass or stainless-steel construction
- Pressure ratings up to 7000 psi

Applications

- Food service equipment
- Mold platens
- Electric heaters
- Refrigerators and freezers
- Test pots & temperature control chamber
- Livestock warmers
- Agricultural equipment
- Environmental controls
- Vending machines
- Electric & gas ovens
- Automotive
- Hydraulics

Auto Reset Construction

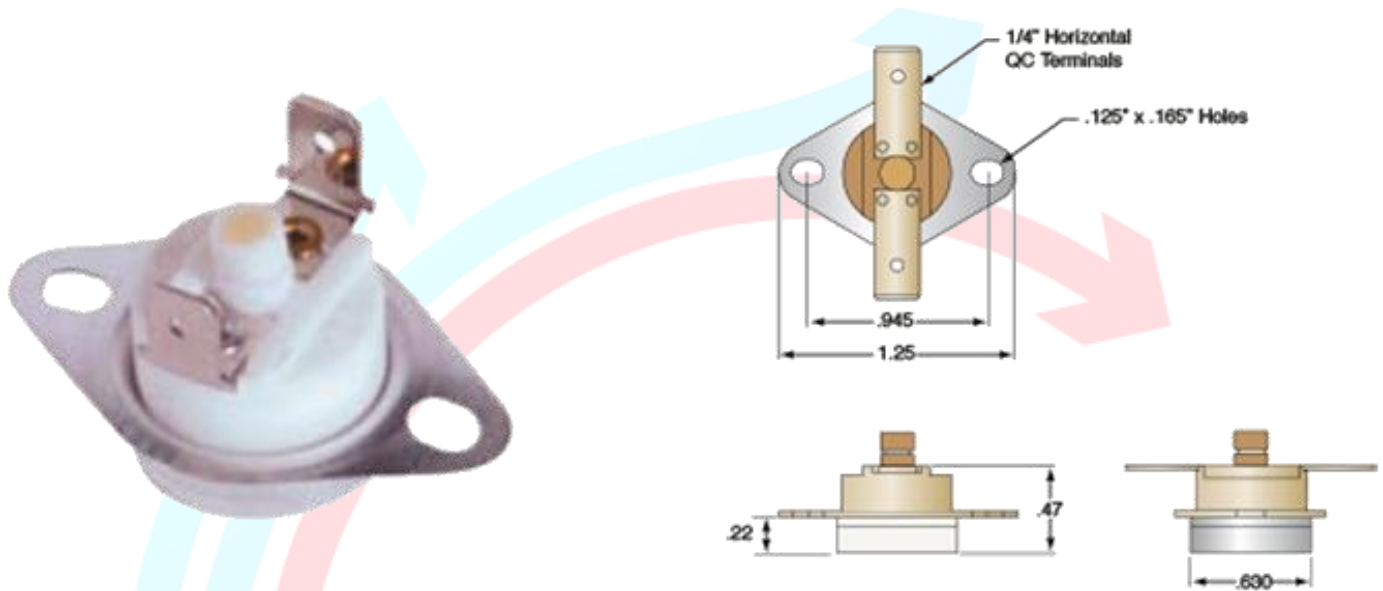
Options shown: Vertical 1/4" Q.C. Terminals and an 8-32 Stud Mount Cap



GT Series, Ceramic Disc Thermostats (continued)

Manual Reset Construction

Options shown: Horizontal 1/4" Q.C. Terminals and Airstream Mount Flange



Electrical Ratings and Temperature Information

Model Type	Cycles (X 1000)	Electrical Rating	Max Temp °C	Agency
GT52N	100	120 Vac/15 Amps 240 Vac/10 Amps	230°C	UL/CSA/VDE
GT52N	30	120 Vac/15 Amps 240 Vac/10 Amps	260°C	UL Only
GT52N	30	120 Vac/0.5 Amps	230°C	UL/CSA/VDE
GT52P	100	42 Vac/0.2 Amps	230°C	UL/CSA/VDE
GT15N	6	120 Vac/15 Amps 240 Vac/10 Amps	250°C	UL only

Standard Tolerances: Manual Reset

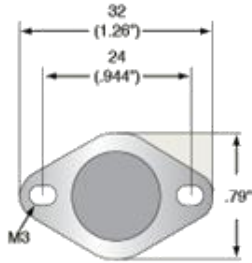
Set Temperature		Open Tolerance	
°C	°F	°C	°F
150-250	302-482	+/-8	+/-14.4

Standard Temperature Differential and Tolerances: Automatic Reset

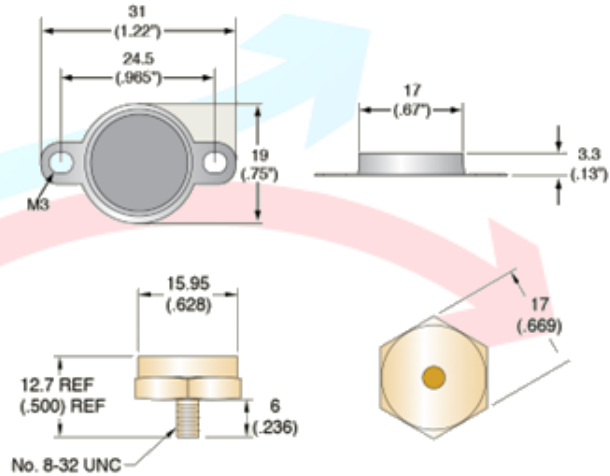
Set Temperature		Differential		Open Tolerance		Close Tolerance	
°C	°F	°C	°F	°C	°F	°C	°F
150-260	301-446	25	45	+/-5	+/-9	+/-7.0	+/-13

GT Series, Ceramic Disc Thermostats (continued)

Airstream Mount Flange Cup
Code: AM • Material: Aluminum

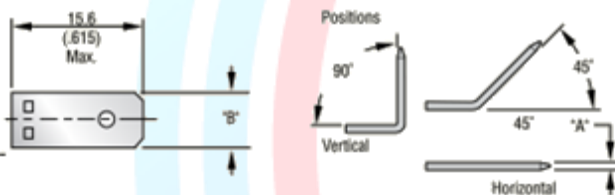


Loose Ear Surface Mount Flange
Code: SM • Material: Aluminum



Terminal Options

Quick connects. Material: brass, tin plated.



All dimensions mm (in.)

Model Type	1/4"	3/4"
Thickness (A)	0.8 (.031)	0.5 (.020)
Width (B)	6.3 (.250)	4.8 (.187)
Orientation	Codes	
Vertical	4V	3V
Horizontal	4H	3H
45°	4A	3A

GT Numbering System for Samples

GT	52	N	L	4V	SM	165
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Contact Type	
52	Automatic Reset
15	Manual Reset

Contact Material	
N	Silver Nickel Alloy
P	Gold Platinum Silver
X	Gold Platinum Silver

Contact Configuration	
L	Normally Closed, Open on Rise
F	Normally Open, Close on Rise

Terminal Options	
3/16" Quick Connects	
3V	Vertical
3H	Horizontal
3A	45°
1/4" Quick Connects	
4V	Vertical
4H	Horizontal
4A	45°

Other terminal types available.

Mounting Options	
FC	No Mounting Provision, Flat Cup
AM	Airstream Mount Integral Flange
SM	Surface Mount Flange, Loose Ear
ST	8-32 Stud Mount

Other mounting types available.

Set temperature select in increments of 1°C from 150°C to -230°C

Higher set points available, contact Thermtrol for details.

GT20 Series, 1/2" Disc, Moisture Resistant, Fixed Thermostats

DECA Manufacturing offers the GT20 line of 1/2" disc fixed temperature thermostats. Approved by numerous testing agencies, all GT thermostats pass a series of rigorous quality control checks including continuity, function, contact resistance and dielectric strength. Excellent multipurpose thermostat with a moisture resistant body. A wide range of operating temperatures permit the flexibility to meet your needs.

Features

- Bi-metal disc, factory pre-set
- Automatic reset: Available with both normally open and normally closed switch logic
- Variety of accessories and mounting options
- Compact dimensions, high load capacity
- High operating speed
- Current insensitive
- Moisture resistant

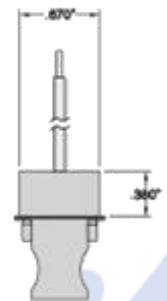
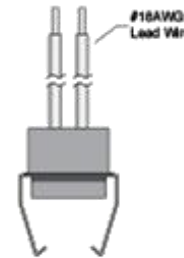
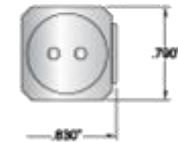
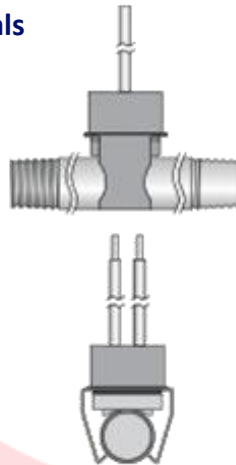
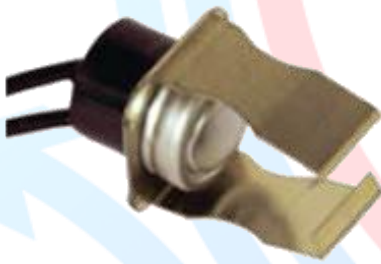
Applications

- Hydronic fan coils
- Humidifier
- Dehumidifier
- HVAC
- Major appliances
- Medical/lab equipment
- Vending machines
- Electric space heaters
- Hair care appliances
- Audio speakers
- Copiers
- Refrigeration compressors
- Commercial food equipment
- Vacuum cleaners
- Medical equipment
- Gas furnace protection
- Welding equipment

Auto Reset Construction

Options shown: 1/2" diameter pipe mount. Lead wires.

Electrical Ratings & Selected Agency Approvals



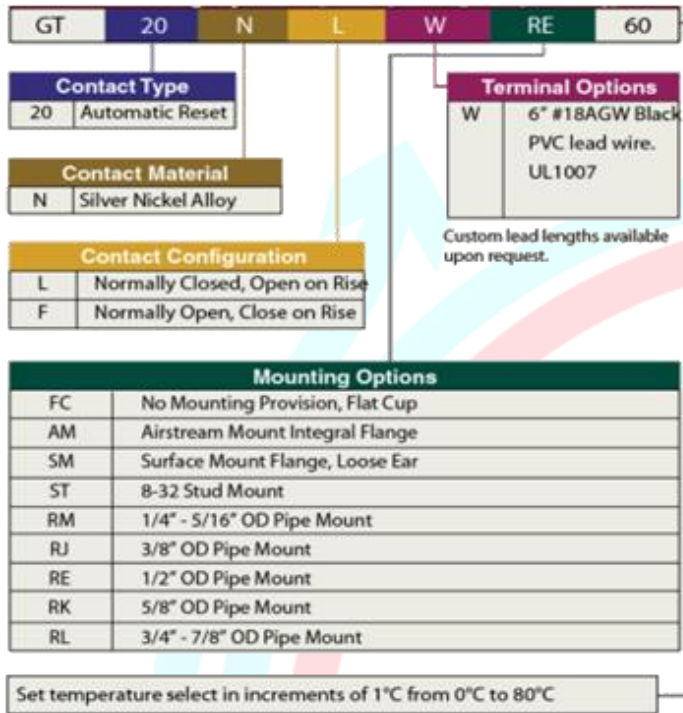
Model Type	Cycles (X 1000)	Electrical Rating	Max Temp °C	Agency
GT20	100	100 120 Vac/15 Amps 240 Vac/10 Amps 123 Vac/ 7.5 Amps IND.	8°C	UL E201152

Standard Temperature Differential and Tolerances: Automatic Reset

Set Temperature		Differential		Open Tolerance		Close Tolerance	
°C	°F	°C	°F	°C	°F	°C	°F
0-80	32-178	10	18	+/-3	+/-5.4	+/-7.0	+/-13

GT20 Series, ½" Disc, Moisture Resistant, Fixed Thermostats (continued)

Numbering System



GT43 Series, Disc Fixed Thermostats

DECA Manufacturing offers the GT43 line of 3/4" disc fixed temperature thermostats. Approved by numerous testing agencies, all GT thermostats pass a series of rigorous quality control checks including continuity function, contact resistance, and dielectric strength. Excellent multipurpose thermostat with increased contact capacity. A wide range of operating temperatures permit the flexibility to meet your needs.

Features

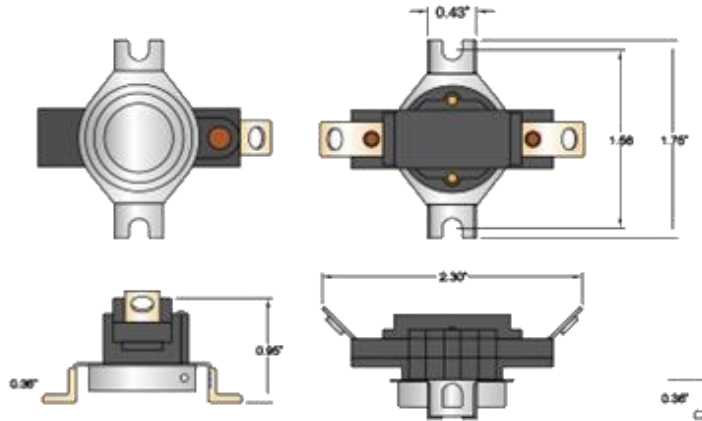
- Bi-metal disc, factory pre-set
- Automatic reset: Available with both normally open and normally closed switch logic
- Variety of accessories and mounting options
- Compact dimensions, high load capacity
- High operating speed
- Current insensitive
- ROHS Compliant

Applications

- HVAC
- Major appliances
- Medical/lab equipment
- Vending machines
- Electric space heaters
- Overhead projectors
- Hair care appliances
- Audio speakers
- Copiers
- Refrigeration compressors
- Commercial food equipment
- Vacuum cleaners
- Medical equipment
- Gas furnace protection
- Power supplies
- Communications equipment
- Welding equipment

Auto Reset Construction

Options shown: Vertical 1/4" Q.C. Terminals and Surface Mount Flange



Electrical Ratings & Selected Agency Approvals

Model Type	Cycles (X 1000)	Electrical Rating	Max Temp °C	Agency
GT43	100	250 Vac/25 Amps 480 Vac/ 13 Amps	15°C	UL E201152

Standard Temperature Differential and Tolerances: Automatic Reset

Set Temperature		Differential		Open Tolerance		Close Tolerance	
°C	°F	°C	°F	°C	°F	°C	°F
0-119	32-246	10	18	+/-3	+/-5.4	+/-7.0	+/-13
120-150	248-302	10	18	+/-5	+/-9	+/-7.0	+/-13

GT43 Series, Disc Fixed Thermostats (continued)

Numbering System

GT43	1	1	3	2	5	090	85
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Contact Configuration	
1	Normally Closed, Open on Rise
2	Normally Open, Close on Rise

Body Material	
1	Phenolic

Cap	
0	Open
3	Closed

Terminal Options	
1	1/4" QC Terminal Flat
2	1/4" QC Terminal 45 Degrees
3	1/4" QC Terminal Vertical
6	8-32 Screw Thread Flat
7	8-32 Screw Thread 45 Degrees

Mounting Options	
0	None
5	Airstream Mount
N	Surface Mount

Terminal to Bracket Orientation	
000	0° from Terminals
045	45° from Terminals
090	90° from Terminals

Set temperature select in increments of 1°C from 0°C to 150°C.

Manual Reset version also available.

1NT Series, Fixed Thermostats

DECA Manufacturing offers Sensata's Klixon® line of 1NT fixed temperature thermostats. Approved by numerous testing agencies, all 1NT thermostats pass a series of rigorous quality control checks including continuity, function, contact resistance and dielectric strength. Excellent multipurpose thermostat available in both automatic reset and push button manual reset configurations. A wide range of operating temperatures, small size, and a variety of physical configurations, permit the flexibility to meet your specific needs.

Features

- Bi-metal disc, factory pre-set
- Switch Actions:
 - Automatic reset: Available with both normally open and normally closed switch logic
 - Manual reset: Mechanically resettable device
 - Trip free manual reset: UL M2 class rating that resists consumer tampering
- Variety of accessories and mounting options
- Compact dimensions, high load capacity
- High operating speed
- Current insensitive

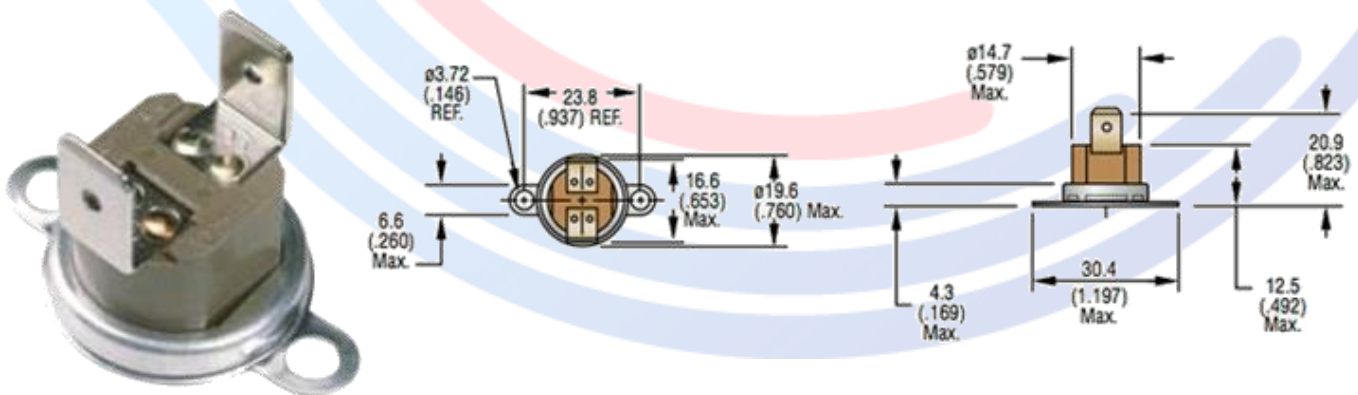
Applications

- Vending machines
- Microwave ovens
- Electric space heaters
- Overhead projectors
- Hair care appliances
- Clothes dryers
- Audio speakers
- Copiers
- Refrigeration compressors
- Food processing equipment
- Toasters
- Coffee makers
- Vacuum cleaners
- Medical equipment
- Dishwashers
- Gas furnace protection
- Power supplies
- Communications equipment
- Welding equipment



Auto Reset Construction

Options shown: Vertical 1/4" Q.C. Terminals and Surface Mount Flange



1NT Series, Fixed Thermostats (continued)

Manual Reset Construction

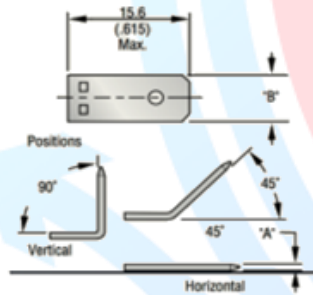
Options shown: Horizontal 1/4" Q.C.
Terminals and Airstream Mount Flange



Terminal Options

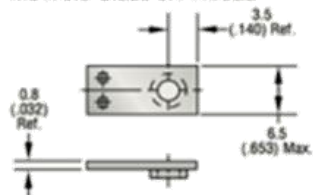
Quick connects. Material: brass, tin plated.

Model Type	1/4"	3/4"
Thickness (A)	0.8 (.031)	0.5 (.020)
Width (B)	6.3 (.250)	4.8 (.187)
Orientation	Codes	
Vertical	4V	3V
Horizontal	4H	3H
45°	4A	3A

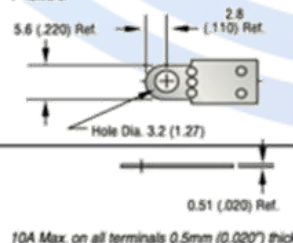


All dimensions mm (in.)

Screw Terminals
Code: SC Material: Steel,
Nickel Plated
M3 x 0.5 Class 6H Thread

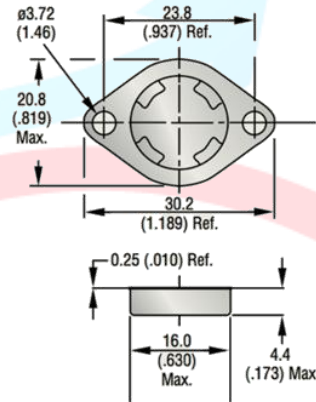


Solder Terminals
Code: ST Material: Brass, Tin
Plated

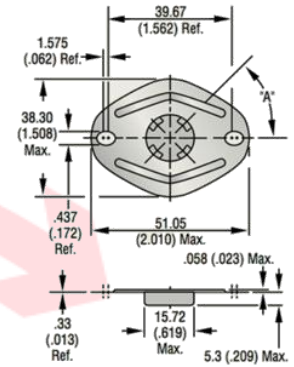


Mounting Options

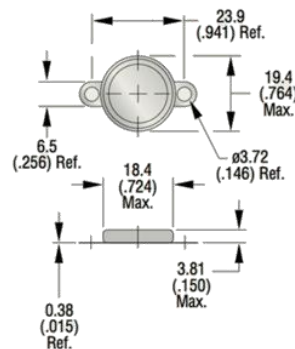
Airstream Mount Flange Cup
Code: AM Material: Aluminum



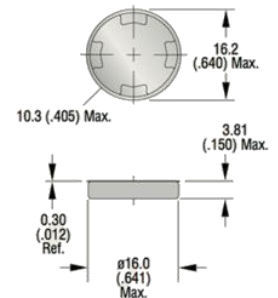
Large Oval Integral Cup
Code: LO Material: Aluminum



Loose Ear Surface Mount Flange
Code: SM Material: Aluminum



Flat Cup
Code: FC Material: Aluminum



1NT Numbering System

1NT	08	L	3H	AM	199°C
Contact Type			Terminal Options		
01	Automatic Reset, Silver Contacts		3/16" Quick Connects		
11	Automatic Reset, Gold Contacts**		3V	Vertical	
08	Manual Reset, Silver Contacts		3H	Horizontal	
12	Manual Reset, Gold Contacts**		3A	45°	
15	Trip Free MR*, Silver Contacts		1/4" Quick Connects		
19	Trip Free MR*, Gold Contacts**		4V	Vertical	
*MR = Manual Reset			4H	Horizontal	
**Gold contacts are applicable for circuits from 50mAMP to 1AMP			4A	45°	
Contact Configuration			Other		
L	Normally Closed, Open on Rise		ST	Solder Terminals	
F	Normally Open, Close on Rise		SC	Screw Terminals	
F contacts not applicable for Manual Reset devices.			Other terminal types available.		
Mounting Options			Set temperature - select in increments of 1°C from 0°C to 204°C		
FC	No Mounting Provision, Flat Cup				
AM	Airstream Mount Integral Flange				
SM	Surface Mount Flange, Loose Ear				
LO	Large Oval Airstream Mount Integral Flange				