Commercial Thermostat
Submittal Data

ClimateMaster works continually to improve its products. As a result, the design and specifications of each product at the time of order may be changed without notice and may not be as described herein. Please contact ClimateMaster’s Customer Service Department at 1-405-745-6000 for specific information on the current design and specifications. Statements and other information contained herein are not express warranties and do not form the basis of any bargain between the parties, but are merely ClimateMaster’s opinion or commendation of its products. The latest version of this document is available at climatemaster.com.

Rev.: February 20, 2020
ClimateMaster works continually to improve its products. As a result, the design and specifications of each product at the time of order may be changed without notice and may not be as described herein. Please contact ClimateMaster's Customer Service Department at 1-405-745-6000 for specific information on the current design and specifications. Statements and other information contained herein are not express warranties and do not form the basis of any bargain between the parties, but are merely ClimateMaster's opinion or commendation of its products. The latest version of this document is available at climatemaster.com.

Table of Contents

T-Stat Series

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATA32V01</td>
<td>3</td>
</tr>
<tr>
<td>AVB32V02C</td>
<td>4</td>
</tr>
<tr>
<td>ATA11U01</td>
<td>5</td>
</tr>
<tr>
<td>ATA11U03</td>
<td>6</td>
</tr>
<tr>
<td>ATA22U01</td>
<td>7</td>
</tr>
<tr>
<td>ATC32U03C</td>
<td>8</td>
</tr>
<tr>
<td>ATP21W02</td>
<td>10</td>
</tr>
<tr>
<td>ATP32U03C</td>
<td>11</td>
</tr>
<tr>
<td>ATP32U04C</td>
<td>13</td>
</tr>
<tr>
<td>AST008C</td>
<td>15</td>
</tr>
<tr>
<td>11B0100N53 Wire Harness (12” Pigtail)</td>
<td>16</td>
</tr>
<tr>
<td>Revision History</td>
<td>17</td>
</tr>
</tbody>
</table>

Document page number is shown next to part number (e.g. LC204 - 3 = page 3). Since not all pages are typically used in the submittals process, the page number in the lower right corner can still be used (page ____of____).
ATA32V01: Auto Changeover 3H 2C

ClimateMaster works continually to improve its products. As a result, the design and specifications of each product at the time of order may be changed without notice and may not be as described herein. Please contact ClimateMaster's Customer Service Department at 1-405-745-6000 for specific information on the current design and specifications. Statements and other information contained herein are not express warranties and do not form the basis of any bargain between the parties, but are merely ClimateMaster’s opinion or commendation of its products. The latest version of this document is available at climatemaster.com.

ClimateMaster CM100 Thermostat

Features (cont.):
- Backlight feature selectable
- Large number display easy to read
- Optional wall plate available for replacement applications
- Dual setpoints with adjustable dead band

Electrical Rating:
- 20 – 28 VAC 50/60Hz, 5VA max

Output Rating:
- Y1, Y2, G – 0.8 Amp, all others 0.4 Amp, total max on all outputs - 3 Amp.

Setpoint Range
- 35°F to 99°F (2°C to 37°C) Note: User must maintain temperature settings within proper unit operating temperature range. See specific unit IOM for details.

Wiring:

Features:
- 24 volt thermostat for use with water source heat pump
- HEAT-OFF-COOL-AUTO system selection
- FAN-ON-AUTO selection
- °F or °C temperature display
- Keypad lockout feature selectable
- Bi-color LED indicates heating or cooling demand
- Time clock with day of the week
- Space temperature and setpoint display
- Quick Start and advanced setup menus
- Setpoints and programming held in memory during power outages (time clock does not advance)
ClimateMaster works continually to improve its products. As a result, the design and specifications of each product at the time of order may be changed without notice and may not be as described herein. Please contact ClimateMaster's Customer Service Department at 1-405-745-6000 for specific information on the current design and specifications.

Statements and other information contained herein are not express warranties and do not form the basis of any bargain between the parties, but are merely ClimateMaster's opinion or commendation of its products. The latest version of this document is available at climatemaster.com.

**AVB32V02C: 3H 2C 7-Day Programmable WiFi**

**ClimateMaster CM300 Thermostat**

**Features (cont.):**
- Time clock with day of week
- Humidity control for use with ClimaDry® equipped units
- Override button for unoccupied periods with adjustable override timer (1-4 hours)
- Backlight/Nightlight feature

**Electrical Rating:**
- 20 – 28 VAC 50/60Hz, 5VA max

**Output Rating:**
- Y1, Y2, G – 0.8 Amp, all others 0.4 Amp, total max on all outputs - 3 Amp.

**Setpoint Range:**
- 35°F to 99°F (2°C to 37°C) Note: User must maintain temperature settings within proper unit operating temperature range. See specific unit IOM for details.

**Connectivity:**
- Integrated 2.4 GHz b/g/n Wi-Fi radio for remote monitor and control.

**Wiring:**

**Features:**
- 24 volt thermostat for use with water source heat pump
- 3 heat, 2 cool multi-stage
- 7-day programmable
- Wi-Fi - free mobile apps available
- Bi-color LED indicates heating or cooling demand
- Keypad lockout feature
- Programming and setpoints stored in non-volatile memory (time clock does not advance)
- Optional wall plate available
- Optional remote wireless temperature sensor
- HEAT-OFF-COOL-AUTO system selection

**Mounting:**

**Two Stage Unit, DXM2**

NOTE: H only available with Climadry; W1 only available with aux heat and Y2 only available with 2 stage heating/cooling. For one or two compressor units, refer to that unit's installation manual.

**Features:**
- 24 volt thermostat for use with water source heat pump
- 3 heat, 2 cool multi-stage
- 7-day programmable
- Wi-Fi - free mobile apps available
- Bi-color LED indicates heating or cooling demand
- Keypad lockout feature
- Programming and setpoints stored in non-volatile memory (time clock does not advance)
- Optional wall plate available
- Optional remote wireless temperature sensor
- HEAT-OFF-COOL-AUTO system selection

**Electrical Rating:**
- 20 – 28 VAC 50/60Hz, 5VA max

**Output Rating:**
- Y1, Y2, G – 0.8 Amp, all others 0.4 Amp, total max on all outputs - 3 Amp.

**Setpoint Range:**
- 35°F to 99°F (2°C to 37°C) Note: User must maintain temperature settings within proper unit operating temperature range. See specific unit IOM for details.
ATA11U01: Auto Change Over

One Heat / One Cool
Auto / Manual Changeover
Non-Programmable

Features (cont.):
- Extended fan operation feature can be used to operate fan for 90 seconds after “Y” turns off
- Setup feature allows either “current room temp” or the “current setpoint” to be displayed
- Optional safety setpoints ensure that heating and cooling will occur even if thermostat is in “Off” mode
- Backplate wiring for easy installation

Electrical Rating:
- Input Power: 18 to 30 Vac, 50/60 Hz.

Temperature Settings:
- Setpoint Range: 50°F to 90°F [10°C to 32°C]
  Note: User must maintain thermostat setting within proper unit operating temperature range (See specific unit(s) IOM for details)
- The default setpoint for heating is 70°F [21°C] and for cooling is 74°F [23°C]. Press the ▲ or ▼ keys to change the setting. To change between heat and cool settings, press the mode key until the setting to be changed appears

Display Range:
- Display Updates: Updated every 12 seconds
- Differential (autochangeover model): 3°F [1.5°C] minimum

Output Ratings:
- Maximum current for each output is 1 Amp

Application:
The ATA11U01 electronic thermostat provides single-stage, non-programmable temperature control for 24V water-source heat pump systems.

Features:
- Heat-Off-Cool-Auto System selections
- Fan-On-Auto selections
- °F or °C temperature display
- Configurable automatic or manual changeover operation
- Light emitting diode (LED) for alarm status.
- Installer setup options allow for customized applications
- Zero temperature droop performance
- Temperature display adjustment feature provides display offset for custom applications
- Setpoints are permanently held in memory (no batteries used) and retained during power outages

Mounting:

Application:
The ATA11U01 electronic thermostat provides single-stage, non-programmable temperature control for 24V water-source heat pump systems.

Features:
- Heat-Off-Cool-Auto System selections
- Fan-On-Auto selections
- °F or °C temperature display
- Configurable automatic or manual changeover operation
- Light emitting diode (LED) for alarm status.
- Installer setup options allow for customized applications
- Zero temperature droop performance
- Temperature display adjustment feature provides display offset for custom applications
- Setpoints are permanently held in memory (no batteries used) and retained during power outages

Display Range:
- Display Updates: Updated every 12 seconds
- Differential (autochangeover model): 3°F [1.5°C] minimum

Output Ratings:
- Maximum current for each output is 1 Amp
**ATA11U03**

[Diagram of ATA11U03 thermostat]

**One Heat / One Cool Auto / Manual Changeover w/Fan Speed Switch Non-Programmable**

**Features (cont.):**
- Installer setup options allow for customized applications, including dead band adjustment, temperature display offset, manual heat-cool only, keypad lockout, sensing on board or remote, maximum cycles per hour, fan speeds (2 or 1), setting minimum cooling temperature, and setting maximum heating temperature
- Zero temperature droop performance
- Setpoints are permanently held in memory (no batteries used) and retained during power outages
- Backplate wiring for easy installation

**Electrical Rating:**
- Input Power: 18 to 30 Vac, 50/60 Hz

**Temperature Settings:**
- Setpoint Range: 50°F to 90°F [10°C to 32°C]
  - **Note:** User must maintain thermostat setting within proper unit operating temperature range (See specific unit(s) IOM for details)
- The default setpoint for heating is 68°F [20°C] and for cooling is 78°F [25.5°C]. Press the ▲ or ▼ keys to change the setting. To change between heat, cool, and auto settings, press the mode key until the desired setting appears

**Output Ratings:**
- Maximum current for each output is 1 Amp, 3 Amp total

**Wiring:**

| THERMOSTAT | HEAT PUMP
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ASA11U03</td>
<td>ASA11U03</td>
</tr>
<tr>
<td>Rc</td>
<td>R</td>
</tr>
<tr>
<td>Rh</td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>W or W1</td>
</tr>
<tr>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>G2</td>
<td>H (DXM ONLY)</td>
</tr>
<tr>
<td>S2</td>
<td>S2</td>
</tr>
<tr>
<td>S1</td>
<td>S1</td>
</tr>
<tr>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Y1</td>
<td>Y or Y1</td>
</tr>
</tbody>
</table>

1. For units using only 1 speed (see unit wire diagram.) Must add jumper on thermostat between G and G2, or configure thermostat for 1 speed (G only)
2. For optional remote sensor, configure thermostat remote sensing, use ASW06 (wall sensor) or 17B0008N05 (duct sensor)

**Application:**
The ATA11U03 electronic thermostat provides single-stage, 2 fan speed selections, non-programmable temperature control for 24 Vac water-source heat pump systems.

**Features:**
- Heat-Off-Cool-Auto System selections
- Fan Low or High selections
- Fan-On-Auto selections
- °F or °C temperature display
- Backlight user select

**Back Plate:**

- Mounting Holes
- Holes: 4.12 in [105 mm], 2.88 in [73 mm], 3.56 in [90 mm], 2.19 in [56 mm]
- Depth: 1.12 in [28 mm]

**Mounting:**
- Depth: 1.12 in [28 mm]
- Dimensions: 5.12 in [130 mm], 4.12 in [105 mm], 3.25 in [83 mm], 4.40 in [118 mm]

**Notes:**
- User must maintain thermostat setting within proper unit operating temperature range (See specific unit(s) IOM for details)
- The default setpoint for heating is 68°F [20°C] and for cooling is 78°F [25.5°C]. Press the ▲ or ▼ keys to change the setting. To change between heat, cool, and auto settings, press the mode key until the desired setting appears

**Electrical Rating:**
- Input Power: 18 to 30 Vac, 50/60 Hz

**Temperature Settings:**
- Setpoint Range: 50°F to 90°F [10°C to 32°C]
  - **Note:** User must maintain thermostat setting within proper unit operating temperature range (See specific unit(s) IOM for details)
- The default setpoint for heating is 68°F [20°C] and for cooling is 78°F [25.5°C]. Press the ▲ or ▼ keys to change the setting. To change between heat, cool, and auto settings, press the mode key until the desired setting appears

**Output Ratings:**
- Maximum current for each output is 1 Amp, 3 Amp total

**Wiring:**

<table>
<thead>
<tr>
<th>THERMOSTAT</th>
<th>HEAT PUMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATA11U03</td>
<td>ASA11U03</td>
</tr>
<tr>
<td>Rc</td>
<td>R</td>
</tr>
<tr>
<td>Rh</td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>W or W1</td>
</tr>
<tr>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>G2</td>
<td>H (DXM ONLY)</td>
</tr>
<tr>
<td>S2</td>
<td>S2</td>
</tr>
<tr>
<td>S1</td>
<td>S1</td>
</tr>
<tr>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Y1</td>
<td>Y or Y1</td>
</tr>
</tbody>
</table>

1. For units using only 1 speed (see unit wire diagram.) Must add jumper on thermostat between G and G2, or configure thermostat for 1 speed (G only)
2. For optional remote sensor, configure thermostat remote sensing, use ASW06 (wall sensor) or 17B0008N05 (duct sensor)
ClimateMaster works continually to improve its products. As a result, the design and specifications of each product at the time of order may be changed without notice and may not be as described herein. Please contact ClimateMaster's Customer Service Department at 1-405-745-6000 for specific information on the current design and specifications. Statements and other information contained herein are not express warranties and do not form the basis of any bargain between the parties, but are merely ClimateMaster’s opinion or commendation of its products. The latest version of this document is available at climatemaster.com.

ATA22U01: Auto Change Over

Two Heat / Two Cool
Manual / Auto Changeover
Non-Programmable

Features (cont.):
- Setup feature allows either “current room temp” or the “current setpoint” to be displayed
- Optional safety setpoints ensure that heating and cooling will occur even if thermostat is in “Off” mode
- Backplate wiring for easy installation
- Automatic fan staging (when used with DXM board and direct drive motor)

Electrical Rating:
- Input Power: 18 to 30 Vac, 50/60 Hz

Temperature Settings:
- Setpoint Range: 50°F to 90°F [10°C to 32°C]
  Note: User must maintain thermostat setting within proper unit operating temperature range (See specific unit(s) IOM for details)
- The default setpoint for heating is 70°F [21°C] and for cooling is 74°F [23°C]. Press the ▲ or ▼ keys to change the setting. To change between heat and cool settings, press the mode key until the setting to be changed appears

Display Range:
- Display Updates: Updated every 12 seconds
- Differential (autochangeover model): 3°F [1.5°C] minimum

Output Ratings:
- Maximum current for each output is 1 Amp

Application:
The ATA22U01 electronic thermostat provides two-stage, non-programmable temperature control for 24V water-source heat pump systems.

Features:
- Heat-Off-Cool-Em Heat-Auto System selections
- Fan-On-Auto selections
- °F or °C temperature display
- Configurable automatic or manual changeover operation
- Light emitting diode (LED) for alarm status
- Installer setup options allow for customized applications
- Zero temperature droop performance
- Temperature display adjustment feature provides display offset for custom applications
- Setpoints are permanently held in memory (no batteries used) and retained during power outages
- Extended fan operation feature can be used to operate fan for 90 seconds after “Y” turns off

Wiring:

Mounting:

Notes:
1. Connect “W/Y2” thermostat output to “Y2” on the DXM if thermostat “Y2” option is configured as “Y2 - On” and the desired operation is for 2 stages of compressor with no electric heat. Connect “W/Y2” thermostat output to “W1” on the DXM if thermostat “Y2” option is configured as “Y2 - Off” and the desired operation is for 1 stage of compressor with electric heat for Heating Stage 2.
ATC32U03C: Communicating

Communicating, Three Heat / Two Cool, Auto / Manual Changeover Programmable (7 Day) - With Humidity Control

Features (cont.):
- dehumidistat/humidistat
- Thermostat can be programmed to use humidification output to control a humidifier
- Digital Night Setback mode initiated by an external signal
- Four periods per day
- 9°F or 9°C temperature display
- 12 or 24 hour clock
- Individual heat and cool setpoints
- Zero temperature droop performance
- Automatic (program mode) or manual (HOLD) operation
- 7-day programming
- Convenient overrides allow temporary setpoint changes
- Setpoints are permanently held in memory (no batteries used) and retained during power outages
- Room temperature offset adjustment
- Progressive Recovery anticipates the time required to bring the space temperature to the next programmed event, and brings on the heat pump accordingly
- Large backlit dot matrix display is activated whenever a key is pressed and remains on for 25 seconds
- Menu-driven programming with five navigation buttons (UP/DOWN/LEFT/RIGHT/SELECT) for ease of use
- Fault indication with red backlight display
- Configurable service interval messages and servicing contractor contact information
- Keypad lockout
- Simple four wire connection
- Back-plate wiring connections for easy installation
- Exclusive service screens that display conditions when fault occurred, last 5 faults, and list of possible causes
- Compatible with optional AST008C sensor for use as remote and/or outdoor sensor, or for indoor wall mounted sensor use ASW06

Electrical Rating:
- Input Power: 18 to 30 VAC, 50/60 Hz.

Operating Conditions:
- 32°F to 104°F [0°C to 40°C]
- 10% to 95% non-condensing

Temperature Settings:
- Setpoint range: 55°F to 95°F [12°C to 35°C], +/- 2°F [1°C]

Note: User must maintain thermostat setting within proper unit operating temperature range (See specific unit(s) IOM for details)
- Dehumidification setpoint range: 15% to 95% RH
- Humidification setpoint range: 10% to 45% RH

Application:
The ATC32U02C iGate™ Communicating Programmable Thermostat provides 3 stages heating, 2 stages of cooling, programmable temperature/humidity control of 24V water-source heat pump equipment with DXM2 will communicate with heat pump to maximize comfort and reduce energy doing so.

Features:
- With DXM2 can set ECM motor CFM from minimum to maximum by 25 CFMs; can view 6 unit sensors - Entering water, Leaving water, Supply Air, Discharge line, entering and leaving TXV temperatures; check inputs and see dip switch configurations.
- Dehumidification output is designed to work with Whole House Dehumidification Modulating Reheat option or with ECM fan motor dehumidification mode
- Integrated control of both temperature and relative humidity
- Integrated control eliminates separate thermostat and

ClimateMaster works continually to improve its products. As a result, the design and specifications of each product at the time of order may be changed without notice and may not be as described herein. Please contact ClimateMaster’s Customer Service Department at 1-405-745-6000 for specific information on the current design and specifications. Statements and other information contained herein are not express warranties and do not form the basis of any bargain between the parties, but are merely ClimateMaster’s opinion or commendation of its products. The latest version of this document is available at climatemaster.com.
ATC32U03C: Communicating

Wiring:

See equipment wiring diagram for more details

Optional Wiring for ASW06

Optional Wiring for AST008C

Note: AST or ASW can be mounted up to 200 feet from thermostat - use minimum two-conductor 22AWG thermostat wire. Follow all NEC and local electrical codes. Outdoor sensor cannot be used if thermostat is configured for digital night setback.
ATP21W02: Programmable 2H 1C

Two Heat / One Cool Manual Changeover Programmable

Features:
- Zero temperature droop performance
- Manual changeover
- Convenient overrides allow temporary setpoint changes
- Setpoints are permanently held in memory (if batteries are used)
- Room temperature offset adjustment
- Back section has wiring connections for easy installation

Electrical Rating:
- Input Power: 18 to 30 VAC, 50/60 Hz.

Temperature Settings:
- Setpoint range: 50°F to 90°F [10°C to 32°C]

Note: User must maintain thermostat setting within proper unit operating temperature range (See specific unit(s) IOM for details)

- Press the ▲ or ▼ keys to change the temperature setting. The MODE, PROGRAM and HOLD keys allow changes to the program and schedule

Output Ratings:
- Maximum current for each output is 1 Amp

Wiring:

Wall Plate:

Note: Order Wall Plate ATWPF61 to mount thermostat to standard 2 x 4 electrical box (Includes metal plate for vertical box)

Application:
The ATP21W02 Thermostat provides 2 stages heating, 1 stage cooling, and programmable temperature control of 24V water-source heat pump equipment. Programming schedule includes one schedule for the five week days, one schedule for the two weekend days and four periods per day (5/2/4).

Features:
- 5-day/2-day programming
- Four periods per day
- °F or °C temperature display
- Individual heat and cool setpoints
Application:
The ATP32U03 Thermostat provides 3 stages heating, 2 stages of cooling, and programmable temperature control of 24V water-source heat pump equipment.

Features:
- 7-day programming
- Four periods per day
- °F or °C temperature display
- 12 or 24 hour clock
- Individual heat and cool setpoints
- Zero temperature droop performance
- Automatic (program mode) or manual (HOLD) operation
- Digital Night Setback mode initiated by an external signal (when using a DXM/DXM2 controller)

Electrical Rating:
- Input Power: 18 to 30 VAC, 50/60 Hz.

Operating Conditions:
- 32°F to 104°F [0°C to 40°C]
- 10% to 95% non-condensing

Temperature Settings:
- Setpoint range: 55°F to 95°F [12°C to 35°C], +/- 2°F [1°C]
  Note: User must maintain thermostat setting within proper unit operating temperature range (See specific unit(s) IOM for details)

Output Ratings:
- Maximum current for each output is 1.0 Amp (2.0 max. output total)
ATP32U03C: Programmable 3H 2C

Three Heat / Two Cool
Manual / Auto Changeover
Programmable (7 Day)

Units With ECM Board (TS, TR, and TC)

Connection to ECM Control

Two Stage Units

Connection to ECM Control

Optional Wiring for ASW06

Note: ATP or ASW can be mounted up to 200 feet from thermostat - use minimum two-conductor 22AWG thermostat wire. Follow all NEC and local electrical codes. Outdoor sensor cannot be used if thermostat is configured for digital night setback.

See equipment wiring diagrams for more details.
ATP32U04C: Programmable 3H 2C with Humidity

Features:
• Dehumidification output is designed to work with Whole House Dehumidification Modulating Reheat option or with ECM fan motor dehumidification mode
• Integrated control of both temperature and relative humidity
• Integrated control eliminates separate thermostat and dehumidistat/humidistat
• Thermostat can be programmed to use humidification output to control a humidifier
• Digital Night Setback mode initiated by an external signal (when using a DXM/DXM2 controller)

Application:
The ATP32U04 Thermostat provides 3 stages heating, 2 stages of cooling, and programmable temperature/humidity control of 24V water-source heat pump equipment.

Features (cont.):
• Four periods per day
• °F or °C temperature display
• 12 or 24 hour clock
• Individual heat and cool setpoints
• Zero temperature droop performance
• Automatic (program mode) or manual (HOLD) operation
• 7-day programming
• Convenient overrides allow temporary setpoint changes
• Setpoints are permanently held in memory (no batteries used) and retained during power outages
• Room temperature offset adjustment
• Progressive Recovery anticipates the time required to bring the space temperature to the next programmed event, and brings on the heat pump accordingly
• Large backlit dot matrix display is activated whenever a key is pressed and remains on for 25 seconds
• Menu-driven programming with five navigation buttons (UP/DOWN/LEFT/RIGHT/SELECT) for ease of use
• Fault indication with red backlight display
• Configurable service interval messages and servicing contractor contact information
• Keypad lockout
• Back-plate wiring connections for easy installation
• Exclusive fault identification (When used with CXM, DXM, or DXM2) displays fault from board (e.g. condensate overflow) and suggests possible causes
• Compatible with optional AST008C sensor for use as remote and/or outdoor sensor, or for indoor wall mounted sensor use ASW06

Electrical Rating:
• Input Power: 18 to 30 VAC, 50/60 Hz.

Operating Conditions:
• 32°F to 104°F [0°C to 40°C]
• 10% to 95% non-condensing

Temperature Settings:
• Setpoint range: 55°F to 95°F [12°C to 35°C], +/- 2°F [1°C]

Note: User must maintain thermostat setting within proper unit operating temperature range (See specific unit(s) IOM for details)
• Dehumidification setpoint range: 15% to 95% RH
• Humidification setpoint range: 10% to 45% RH

Output Ratings:
• Maximum current for each output is 1.0 Amp (2.0 max. output total)
A climate control system with ClimateMaster’s ATP32U04C thermostat is described, which is programmable 3 Heat 2 Cool Auto / Manual Changeover with Humidity Control. The thermostat has a 7-day programmable feature with dehumidification and electric heat options. It is designed for units with ClimaDry Modulating Reheat Option and ECM Board (TS, TR, and TC). The system also supports units with ECM dehumidification mode and ECM Board DIP switch SW9 must be in dehumid. mode. Optional wiring diagrams are included for ASW06 and AST008C sensors. Notes on wiring and setup are provided, including digital night setback wiring and sensor mounting instructions. The latest version of this document is available at climatemaster.com.

See equipment wiring diagram for more details.
AST008C: Sensor

Remote/Outdoor Temperature Sensor

Specifications:
- Two-wire connection to thermostat, extendable with two-conductor 22 AWG thermostat wire up to 200 feet
- Mounting clip with adhesive strip included

Wiring:

Application:
The AST008C sensor is a thermistor, used as an accessory for thermostat models ATP32U03C and ATP32U04C. This sensor provides outdoor air temperature information for the control system, as well as an indication of outdoor temperature on the display screen. The AST008C sensor can also be used as a remote indoor sensor. Two sensors may be used – one for remote indoor temperature sensing, and one for outdoor temperature sensing. When the sensor is used as a remote indoor temperature sensor, the internal sensor of the thermostat becomes inactive. (No thermostat reconfiguration required).

Features:
- Designed for indoor or outdoor installation
- May be used as indoor remote temperature sensor or as outdoor temperature sensor

Application:
The AST008C sensor is a thermistor, used as an accessory for thermostat models ATP32U03C and ATP32U04C. This sensor provides outdoor air temperature information for the control system, as well as an indication of outdoor temperature on the display screen. The AST008C sensor can also be used as a remote indoor sensor. Two sensors may be used – one for remote indoor temperature sensing, and one for outdoor temperature sensing. When the sensor is used as a remote indoor temperature sensor, the internal sensor of the thermostat becomes inactive. (No thermostat reconfiguration required).

Features:
- Designed for indoor or outdoor installation
- May be used as indoor remote temperature sensor or as outdoor temperature sensor
11B0100N53 Wire Harness (12” Pigtail)

Wire harness can be connected to any thermostat for quick connection to heat pump units with whip.

Thermostat (Not all wires required for all thermostats - Cap unused wires)

<table>
<thead>
<tr>
<th>Thermostat</th>
<th>Pigtail</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>VIOLET</td>
</tr>
<tr>
<td>W</td>
<td>WHITE</td>
</tr>
<tr>
<td>G</td>
<td>GRAY</td>
</tr>
<tr>
<td>C</td>
<td>BROWN</td>
</tr>
<tr>
<td>O</td>
<td>Orange</td>
</tr>
<tr>
<td>Y2 or G2</td>
<td>BLUE</td>
</tr>
<tr>
<td>Y</td>
<td>YELLOW</td>
</tr>
<tr>
<td>R</td>
<td>RED</td>
</tr>
</tbody>
</table>

Note: Thermostats can be ordered with Pigtail factory attached
A9155801 - ATA11U01
A9155802 - ATA11U03
A9155804 - ATA22U01
A9155805 - ATP32U03C
A9155806 - ATC32U03C
A9155811 - ATP21W02 with plastic back plate (attach to 2x4 horizontal or vertical box)
A9155813 - ATA32V01 (requires optional wall plate when installing on 2x4 outlet box)
A9155814 - AVB32V02C (requires optional wall plate when installing on 2x4 outlet box)
<table>
<thead>
<tr>
<th>Date</th>
<th>Item:</th>
<th>Action:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2/20/20</td>
<td>Format - All Pages and Info</td>
<td>Updated</td>
</tr>
<tr>
<td>01/09/20</td>
<td>AVB32V02C</td>
<td>Added New Sections - pg 4</td>
</tr>
<tr>
<td>01/09/20</td>
<td>ATA32V01C</td>
<td>Added New Sections - pg 3</td>
</tr>
<tr>
<td>09/25/19</td>
<td>AVB32V02C</td>
<td>Added Thermostat - pg 4</td>
</tr>
<tr>
<td>09/25/19</td>
<td>ATA32V01C</td>
<td>Added Thermostat - pg 3</td>
</tr>
<tr>
<td>11/15/16</td>
<td>Document Design Update</td>
<td>Updated</td>
</tr>
<tr>
<td>04/22/15</td>
<td>Text Edit - All Pages; 11B0200N28</td>
<td>Updated &amp; Added</td>
</tr>
<tr>
<td>12/03/14</td>
<td>ATP21W02; Misc Text - All Pages</td>
<td>Added</td>
</tr>
<tr>
<td>03/26/14</td>
<td>ATC32U02C</td>
<td>Added</td>
</tr>
<tr>
<td>12/11/13</td>
<td>ATA11U01</td>
<td>Updated</td>
</tr>
<tr>
<td>02/28/13</td>
<td>AST008C</td>
<td>Updated</td>
</tr>
<tr>
<td>02/25/13</td>
<td>ATA11U03</td>
<td>Added</td>
</tr>
<tr>
<td>11/26/12</td>
<td>ATA11C04 and AST009</td>
<td>Removed</td>
</tr>
<tr>
<td>02/16/12</td>
<td>ATA11C06</td>
<td>Removed</td>
</tr>
<tr>
<td>01/26/12</td>
<td>ATP32, ATP21, AST008C, AST009</td>
<td>Updated</td>
</tr>
<tr>
<td>04/26/11</td>
<td>ATP32U03 &amp; ATP32U04 Features</td>
<td>Updated</td>
</tr>
<tr>
<td>01/03/11</td>
<td>Format - All Pages</td>
<td>Updated</td>
</tr>
<tr>
<td>09/01/10</td>
<td>ATP32U03 &amp; ATP32U04 Temperature Settings</td>
<td>Updated</td>
</tr>
<tr>
<td>05/11/10</td>
<td>Format - All Pages</td>
<td>Updated</td>
</tr>
<tr>
<td>07/06/09</td>
<td>ATP11N01</td>
<td>Removed</td>
</tr>
<tr>
<td>05/21/09</td>
<td>ATM11C04</td>
<td>Removed</td>
</tr>
<tr>
<td>05/11/09</td>
<td>ATP32U04</td>
<td>Information and Pictorials Added to Page 12</td>
</tr>
<tr>
<td>05/11/09</td>
<td>ATR11C01, ATT11C01 Page</td>
<td>Removed</td>
</tr>
<tr>
<td>05/11/09</td>
<td>ATP31U02</td>
<td>Changed to ATP31U04</td>
</tr>
<tr>
<td>05/11/09</td>
<td>ATP31U01</td>
<td>Changed to ATP31U03</td>
</tr>
<tr>
<td>10/31/08</td>
<td>ATM11C04</td>
<td>Added</td>
</tr>
<tr>
<td>09/16/08</td>
<td>ATP32U02</td>
<td>Updated Wiring Controls</td>
</tr>
<tr>
<td>07/31/08</td>
<td>ATR11C01, ATT11C01</td>
<td>Information Added</td>
</tr>
<tr>
<td>07/23/08</td>
<td>ATA11C03, ATA11C04</td>
<td>Note 3 Added</td>
</tr>
<tr>
<td>05/01/08</td>
<td>ATP11C</td>
<td>Updated Verbage and Changed Pictures</td>
</tr>
<tr>
<td>10/18/07</td>
<td>ATP32U01</td>
<td>Added 2 DXM wiring diagram</td>
</tr>
<tr>
<td>10/18/07</td>
<td>ATP21U01</td>
<td>Removed “Auto” mode notation</td>
</tr>
<tr>
<td>10/18/07</td>
<td>ATM11C11</td>
<td>Added model</td>
</tr>
<tr>
<td>03/31/06</td>
<td>AST008C</td>
<td>Added AST008C outdoor/remote sensor</td>
</tr>
<tr>
<td>02/23/06</td>
<td>First Published</td>
<td></td>
</tr>
</tbody>
</table>