DIAGRAM SELECTION

Diagrams are provided for both single- and three-phase circuits, and are readily identified in the Selection Table on the following page. The Selection Table enables easy selection of the correct wiring diagram after the electrical components of the unit heater have been determined. The control codes are listed to aid in locating the correct diagram.

DIAGRAM INTERCHANGEABILITY

The following gas-fired unit heater wiring diagrams are for either 115-volt, 60 Hertz, single-phase power, or for 230-volt, 60 Hertz, three-phase electrical service.

The 115v/60 Hz/1Ø diagrams may also be utilized for 230v/60 Hz/3Ø by substituting 230-volt components for the 115-volt shown.

The 230v/60 Hz/3Ø diagrams may be modified to 460v/60 Hz/3Ø by adding a 460v to 230v step down transformer and wiring the unit as shown in the wiring "inset" on all 3-phase wiring diagrams.

NOTE: As indicated in every diagram, all wiring must comply with the National Electrical Code and all local codes. All components must agree with their respective power source.

POWER REQUIREMENTS — PAH, PSH MODELS

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>—</th>
<th>—</th>
<th>PSH 130, 150</th>
<th>PSH 170</th>
<th>PSH 225</th>
<th>PSH 280</th>
<th>PSH 340</th>
</tr>
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<tbody>
<tr>
<td>PAH 40, 55</td>
<td>115v/1Ø</td>
<td>2.6 amp</td>
<td>4.2 amp</td>
<td>4.5 amp</td>
<td>6.3 amp</td>
<td>8.4 amp</td>
<td>6.4 amp</td>
</tr>
<tr>
<td></td>
<td>230v/1Ø</td>
<td>1.1 amp</td>
<td>2.3 amp</td>
<td>3.1 amp</td>
<td>4.4 amp</td>
<td>4.4 amp</td>
<td>4.4 amp</td>
</tr>
<tr>
<td></td>
<td>460v/3Ø</td>
<td>—</td>
<td>—</td>
<td>3.0 amp</td>
<td>3.5 amp</td>
<td>3.5 amp</td>
<td>3.5 amp</td>
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POWER REQUIREMENTS — BAH, BSH MODELS

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>—</th>
<th>—</th>
<th>BSH 130</th>
<th>BSH 150</th>
<th>BSH 170</th>
<th>BSH 225</th>
<th>BSH 280</th>
<th>BSH 340</th>
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<tbody>
<tr>
<td>BAH 55, 90</td>
<td>115v/1Ø</td>
<td>1/2</td>
<td>8.3</td>
<td>6.3</td>
<td>6.3</td>
<td>6.3</td>
<td>—</td>
<td>—</td>
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<tr>
<td></td>
<td>230v/1Ø</td>
<td>1/2</td>
<td>3.6</td>
<td>3.6</td>
<td>3.6</td>
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ABBREVIATIONS AND SYMBOLS

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
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<tbody>
<tr>
<td>XFMR or TR</td>
<td>Transformer</td>
</tr>
<tr>
<td>V</td>
<td>Volts</td>
</tr>
<tr>
<td>Hz</td>
<td>Cycle or Hertz</td>
</tr>
<tr>
<td>ø</td>
<td>Phase</td>
</tr>
<tr>
<td>LC</td>
<td>Limit Control</td>
</tr>
<tr>
<td>THERM or TH</td>
<td>Thermostat</td>
</tr>
<tr>
<td>MV</td>
<td>Main Valve</td>
</tr>
<tr>
<td>PV</td>
<td>Pilot Valve</td>
</tr>
<tr>
<td>SO</td>
<td>Shut Off</td>
</tr>
<tr>
<td>RC</td>
<td>Relay Contact or Coil</td>
</tr>
<tr>
<td>G</td>
<td>Ground</td>
</tr>
<tr>
<td>H</td>
<td>Hot</td>
</tr>
<tr>
<td>SW</td>
<td>Switch</td>
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<tr>
<td>EPS</td>
<td>Electric Pilot Switch</td>
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<tr>
<td>HT</td>
<td>High</td>
</tr>
<tr>
<td>Lo</td>
<td>Low</td>
</tr>
<tr>
<td>C</td>
<td>Common</td>
</tr>
<tr>
<td>&quot;J&quot; Box</td>
<td>Junction Box</td>
</tr>
<tr>
<td>H1, H2, etc.</td>
<td>Transformer Primary Terminals</td>
</tr>
<tr>
<td>SUM</td>
<td>Summer Contact (Summer-Winter Switch)</td>
</tr>
<tr>
<td>WLN</td>
<td>Winter Contact (Summer-Winter Switch)</td>
</tr>
<tr>
<td>S-W</td>
<td>Summer-Winter Switch</td>
</tr>
<tr>
<td>O.L.C.</td>
<td>Overload Contact</td>
</tr>
<tr>
<td>C.B.</td>
<td>Power Ventor Centrifugal Switch</td>
</tr>
<tr>
<td>FTc</td>
<td>Fan Timer Contact</td>
</tr>
<tr>
<td>SPDT</td>
<td>Single-Pole Double-Throw Switch</td>
</tr>
<tr>
<td>VA</td>
<td>Volt Ampere</td>
</tr>
<tr>
<td>W</td>
<td>Watts</td>
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</table>

WIRE COLOR CODING

<table>
<thead>
<tr>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BK</td>
<td>Black</td>
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<tr>
<td>BL</td>
<td>Blue</td>
</tr>
<tr>
<td>R</td>
<td>Red</td>
</tr>
<tr>
<td>W</td>
<td>White</td>
</tr>
<tr>
<td>Y</td>
<td>Yellow</td>
</tr>
<tr>
<td>X1, X2, etc.</td>
<td>Transformer Secondary Terminals</td>
</tr>
<tr>
<td>L1, L2, etc.</td>
<td>Electric Load Terminals</td>
</tr>
<tr>
<td>T1, T2, etc.</td>
<td>Starter or Motor Terminals</td>
</tr>
</tbody>
</table>

November, 1991
WIRING DIAGRAM SELECTION

A) Field and Submittal Wiring Diagram Selection

Wiring in the field changes little when the brand of the controls furnished on the unit heater changes. Select correct wiring diagrams as follows:

1) Determine unit heater model and size.
2) Select control code number from Table 1.
3) Reference unit heater model in the Page Location Index with control code number and determine correct page number for single-phase or three-phase control. Single-phase wiring diagram page numbers are in the unshaded areas and three-phase diagrams are in the shaded areas.
4) Wiring diagrams for unit heater accessories are listed in Table 2. The accessory diagrams along with the unit wiring diagrams for complete wiring instructions.

B) Service and Trouble Shooting

Because internal or factory wiring may vary depending on controls manufacturer, the wiring diagrams must be selected with the series identity number when servicing or troubleshooting unit heater control system. Wiring diagrams in this bulletin are for unit heaters manufactured after October 1987 and the series identity number is the 5th thru the 7th digits of the unit heater serial number.

EXAMPLE: Serial No. — 0202201187 has a series identity number of 201.

To select the correct wiring diagram:
1) Determine unit heater model and size from serial plate located on the side of the unit.
2) Determine the control code numbers from box marked Control Code, also on the serial plate.
3) Determine the series identity number from unit serial number.
4) Select the Page Location Index which corresponds to the series identity number of the unit heater, then proceed with Steps 3 and 4 of Field and Submittal Wiring Diagram Selection.

EXAMPLE SELECTION

Select correct single-phase wiring diagram for a BSH 170A, Control Code 28, series identity number 201.

Locate the Page Location Index which shows the page numbers for PSH and BSH units with series identity number 201 (see page iii). Select the page number where the column for the BSH 170 intersects with the line for control code 28. The correct single phase wiring diagram for this unit is found on page 1 in the unshaded area. If this unit also had a summer/winter switch the accessory wiring diagram found on page 1A, as per Table 2, would also be required for complete wiring information.

TWO-IN-ONE DIAGRAMS

Two wiring diagrams are furnished for each circuit configuration in this manual. Included are a connection diagram at the left for field installation and a circuit schematic at the right to aid in continuity and trouble shooting.

The heavier lines in the connection diagram indicate line voltage; the lighter lines are for low voltage. Solid lines show pre-wiring performed at the factory; dotted lines inform the installer of connections required to put the heater in operation.

---

TABLE 1 — CONTROL CODE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>08, 09</td>
<td>Intermittent Pilot Ignition, Non-Lockout, fan-time delay, low voltage thermostat, Natural Gas.</td>
</tr>
<tr>
<td>28, 29</td>
<td>Intermittent Pilot Ignition with Lockout, fan-time delay, low voltage thermostat, Natural Gas.</td>
</tr>
<tr>
<td>78, 79</td>
<td>Intermittent Pilot Ignition with Lockout, fan-time delay, low voltage thermostat, Propane Gas.</td>
</tr>
</tbody>
</table>

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TABLE 2 — ACCESSORY

<table>
<thead>
<tr>
<th>Page</th>
<th>Accessory</th>
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<tbody>
<tr>
<td>1A</td>
<td>Summer/Winter Switch</td>
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<tr>
<td>1B</td>
<td>Energy-Saver Kit</td>
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</table>

① See Paragraph A, Step 4 under "Wiring Diagram Selection".
MODELS PAH, BAH (ALL)
 MODELS PSH, BSH Mfg'd before June 1991
PAGE LOCATION INDEX: Series Identity Number 201 and 203

<table>
<thead>
<tr>
<th>Control Code</th>
<th>PAH 40</th>
<th>PAH/BAH 55</th>
<th>PAH/BAH 90</th>
<th>PAH/BAH 110</th>
<th>PAH/BAH 130</th>
<th>PAH/BAH 150</th>
<th>PAH/BAH 180</th>
<th>PAH/BAH 240</th>
<th>PAH/BAH 300</th>
<th>PAH/BAH 360</th>
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<tr>
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<td>2</td>
<td>2</td>
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PAGE LOCATION INDEX: Series Identity Number 202

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<th>PAH/BAH 55</th>
<th>PAH/BAH 90</th>
<th>PAH/BAH 110</th>
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<th>PAH/BAH 150</th>
<th>PAH/BAH 180</th>
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<th>PAH/BAH 300</th>
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<tr>
<td>28, 29</td>
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MODELS PSH, BSH
 Mfg'd After May 1991
PAGE LOCATION INDEX: Series Identity Number 202

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PAGE LOCATION INDEX: Series Identity Number 203

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<tr>
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<tr>
<td>78, 79</td>
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</tr>
</tbody>
</table>

iii
CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING TO THIS WIRING DIAGRAM MAY RESULT IN INJURY TO THE INSTALLER OR USER. FOR DEVIATIONS CONTACT THE FACTORY.

NOTE TO INSTALLER:
ATTACH THIS DIAGRAM NEAR HEATER.
ALL WIRING MUST COMPLY WITH NATIONAL ELECTRIC CODE AND ALL LOCAL CODES.
ALL COMPONENTS MUST AGREE WITH THEIR RESPECTIVE POWER SOURCE.
USE 105°C WIRE FOR REPLACEMENTS.

*ALTERNATE XFMR:
PRIMARY XFMR WIRES
230V/60Hz/1#-BK60
200V/60Hz/1#-BK60
WIRE NUT THE WIRE NOT USED

WIRING LEGEND

FACTORY
FIELD
WIRE NU
LINE
24V

FUSED DISCONNECT
SWITCH (BY OTHERS)
115V/60Hz/1# POWER SHOWN
L1(BK) O-H-0-0-0-
L2(W) O-H-0-0-0-
SECOND FUSE AND
SWITCH Req’d
FOR 230V,200V,1#

POWER
EXHAUST
MOTOR

LIMIT
SWITCH
(THERM)

LIMIT
CONTROL
THERM

PRESS, SWITCH

ALTERNATE VALVE MARKING

GAS VALVE

PV
PV
PV
PV
PV
PV
PW

MAIN GAS VALVE

SB6 CONTROLLER

24V1
24V2
MV
MV
PV
PV

Pilot Valve

SPARK

SH7215481

Single-phase, intermittent pilot ignition, non-100% (and 100%)
shut-off, fan stoke delay, low-voltage thermostat.
NOTE TO INSTALLER:
ATTACH THIS DIAGRAM NEAR HEATER.
ALL WIRING MUST COMPLY WITH NATIONAL ELECTRIC CODE AND ALL LOCAL CODES.
ALL COMPONENTS MUST AGREE WITH THEIR RESPECTIVE POWER SOURCE.
USE 105°C WIRE FOR REPLACEMENTS.

*ALTERNATE XFMR.
PRIMARY XFMR WIRE 230V/60Hz/1#-BK&G
200V/60Hz/1#-BK&G
WIRE NUT THE WIRE NOT USED

Three-phase, intermittent pilot ignition, non-100X (and 100X)
shut-off, fan time delay, low voltage thermostat

SH725481
CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING TO THIS WIRING DIAGRAM MAY RESULT IN INJURY TO THE INSTALLER OR USER. FOR DEVIATIONS CONTACT THE FACTORY.

FOR U.S. UNITS ONLY

230V/60Hz/1Ph POWER SHOWN FUSED DISCONNECT SWITCH (BY OTHERS)

3Ph STARTER (BY OTHERS)

LOW VOLT THERM (BY OTHERS)

LIMIT CONTROL (BY OTHERS)

POWER EXHAUST MOTOR

FAN MOTOR

T-D RELAY HEATER

PRESS, SWITCH

LIMIT CONTROL

ALTERNATE VALVE MARKING

GAS VALVE

 MAIN VALVE

PILOT VALVE

SP 715A & SP 735A

TH

PV

SENS.

MV

MV/PV

TR

IGN

INDICATES TERMINAL BOARD CONNECTION

Three-phase, intermittent pilot ignition. non-100% (and 100%) shut-off. fan time delay. low voltage thermostat.

NOTE TO INSTALLER:
ATTACH THIS DIAGRAM NEAR HEATER.
ALL WIRING MUST COMPLY WITH NATIONAL ELECTRIC CODE AND ALL LOCAL CODES.
ALL COMPONENTS MUST AGREE WITH THEIR RESPECTIVE POWER SOURCE.
USE 105°C WIRE FOR REPLACEMENTS.

*ALTERNATE XFMR.
PRIMARY XFMR WIRE
230V/60Hz/1Ph-BK&O
200V/60Hz/1Ph-BK&O
WIRE NUT THE WIRE NOT USED

SH215482
CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING TO THIS WIRING DIAGRAM MAY RESULT IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.

WIRING LEGEND
FACTORY
FIELD
WIRE NUT

115V/60Hz/1# POWER SHOWN
L1(BK)
L2(W)
SECOND FUSE AND SWITCH REG'D FOR 230V, 200V, 1#

NOTE TO INSTALLER:
ATTACH THIS DIAGRAM NEAR HEATER.
ALL WIRING MUST COMPLY WITH NATIONAL ELECTRIC CODE AND ALL LOCAL CODES.
ALL COMPONENTS MUST AGREE WITH THEIR RESPECTIVE POWER SOURCE.
USE 105°C WIRE FOR REPLACEMENTS.

#ALTERNATE XFRMR.
PRIMARY XFRMR WIRING
230V/60Hz/1#-BK&W
200V/60Hz/1#-BK&W
WIRE NUT THE WIRE NOT USED

SHT304C1 Single-phase, intermittent pilot ignition, non-100X (and 100X)
shut-off, fan time delay, low-voltage thermostat.

INDICATES TERMINAL BOARD CONNECTION
CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING TO THE WIRING DIAGRAM MAY RESULT IN INJURY TO THE INSTALLER OR USER. FOR DEVIATIONS CONTACT THE FACTORY.

WIRING LEGEND
FACTORY FIELD WIRE NUT

FOR U.S. UNITS ONLY
460V/60Hz/3φ POWER SHOWN
FUSED DISCONNECT SWITCH (BY OTHERS)

LOW VOLT THERM (BY OTHERS)

THREE PHASE STARTER (BY OTHERS)
TO L1 XFMR
TO L2 XFMR
TO L3 XFMR

POWER MOTOR
LIMIT CONTROL (BY OTHERS)

J-BOX

NOTE TO INSTALLER:
ATTACH THIS DIAGRAM NEAR HEATER.
ALL WIRING MUST COMPLY WITH NATIONAL ELECTRIC CODE AND ALL LOCAL CODES.
ALL COMPONENTS MUST AGREE WITH THEIR RESPECTIVE POWER SOURCE.
USE 105°C WIRE FOR REPLACEMENTS.

*ALTERNATE XFMR,
PRIMARY XFMR WIRES
230V/60Hz/1φ-BXR
208V/60Hz/1φ-BXR
WIRE NUT THE WIRE NOT USED

SH73048C1 Three-phase, intermittent pilot ignition, non-100% (and 100%)
shut-off, fan time delay, low voltage thermostat.

INDICATES TERMINAL BOARD CONNECTION
NOTE: SUMMER/WINTER SWITCH ACCESSORY (PART NO. 78727)
WIRING DIAGRAM USED ON MODELS PAH/BAH/PSH/BSH. THIS
TO BE USED IN CONJUNCTION WITH UNIT WIRING DIAGRAM.

TYPICAL SUMMER/WINTER SWITCH WIRING (taken from 6-554.2, page 4)
CAUTION: Turn off all power and gas to unit before wiring. Failure to wire this unit according to this
wiring diagram may result in injury to the installer or user. For deviations, contact factory.

Before proceeding with wiring the accessories described, make sure the unit has been installed, vented, piped and
wired according to the Installation/Service Manual and Standard Wiring Diagram furnished with the unit heater.

![Typical Wiring — Summer/Winter Switch (25V Thermostat, 115V or 208/230V Summer/Winter Switch)](image)

3. Wire unit according to the method selected. Note: If the method selected is as described in Figure 3, the factory
supplied buss bar between terminals “T2” and “F” must be
removed prior to wiring in thermostat and subbase.

4. Check wiring using the Check-Out Procedure below.

CHECK-OUT PROCEDURE

With the power and gas supply turned off, set the thermostat
to its lowest setting and place the summer/winter switch to the
winter position. After making these adjustments proceed as follows:

1. Turn on gas and power supply to the unit. Nothing should
happen.

2. Place the summer/winter switch in the summer position. The
fan motor should start, except when wired as shown in Figure
3. In that case, after a delay of approximately 30 seconds,
the fan motor should start.

3. While the summer/winter switch is still in the summer position,
and with the fan motor running, turn the thermostat up to
call for heat. The main burner should not fire. Allow burner
to fire for 1 to 2 minutes.

4. Turn the thermostat down again. The main burner should
shut off and the fan motor should continue to run. During
this step, allow the fan to run at least ½ minutes to make
sure it will continue running. Modine units are equipped with
a fan timed delay relay and the motor will run approximately
1 to ½ minutes after the fan timer has been de-energized.

5. After insuring that the fan motor will continue to run in the
summer position, and with the thermostat set to its lowest
setting, place the summer/winter switch in the winter position
and wait for the fan time delay to turn the fan motor off.

6. After the fan motor has stopped, and with the summer/winter
switch in the winter position, turn the thermostat up to call
for heat. The main burner should fire and after a delay of
approximately 30 seconds, the fan motor should run.

If the above sequence of operation does not occur, recheck all wiring
until the necessary correction to the wiring is found and
corrected. Set the thermostat to the desired set point and place
summer/winter switch in desired position. Unit is now ready for use.

(This wiring diagram is a stand alone item found also in 6-554.2)
NOTE: ENERGY SAVER ACCESSORY (PART NO. 79200) WIRING DIAGRAM USED ON MODELS PAH/BAH/PSH/BSH. THIS TO BE USED IN CONJUNCTION WITH UNIT WIRING DIAGRAM.

TYPICAL ENERGY-SAVER KIT WIRING

CAUTION: Turn off all power and gas to unit before wiring. Failure to wire this unit according to this wiring diagram may result in injury to the installer or user. For deviations, contact factory.

Before proceeding with wiring the accessories described, make sure the unit has been installed, vented, piped and wired according to the Installation/Service Manual and Standard Wiring Diagram furnished with the unit heater.

![Diagram of 115V/60Hz/1.5A Power Shown](image1)

**Figure 1** Single-phase, low-voltage thermostat.

![Diagram of 230V/60Hz 3A Power Shown](image2)

**Figure 2** Three-phase, low-voltage thermostat.

WIRING

1. Turn off power and gas to unit heater.
2. Connect "R" of controller to fan-timer contact terminal #2.
3. Connect "W" of controller to fan-timer contact terminal #4.

OPERATIONAL CHECK

1. Set room thermostat to its lowest setting and restore gas and power supply to unit heater.
2. Turn the adjustment knob of the thermostat to more the temperature dial across the indicator and back again. When the control is wired for ventilating application (R to W), turning the dial clockwise to a lower setting simulates a rise in temperature and only the unit heater fan should come on. If the wiring is correct, the controlled equipment will switch on and off as the temperature dial indicates the approximate space temperature.
3. If the controlled equipment does not start and stop as the thermostat dial is turned, disconnect the power supply and check the wiring and terminal connections.
4. If the controlled equipment operates opposite to the sequence desired, shut off the power and check for reversed leads on the switch.
5. After checkout, reset room thermostat to desired comfort level. Set energy-saver control 3 to 6 degrees above room thermostat (depending on mounting height, room conditions, etc.) for ceiling air circulation.
For Service Contact your local qualified installation and service contractor or appropriate utility company.

MODINE

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