

WIRING DIAGRAMS



2OAC/2OACH



CAC

R410A MODELS













6228 Oakton Street Morton Grove, IL. 60053 6228 Oakton Street Monton Grove, IL. 60053

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TABLE OF CONTENTS

20ACH Deluxe Portable Air-cooled Heat Pump		PAGE
Electronic Controller	e Air-cooled Heat Pump	2-3
		4
Single Phase	2OACH1211, 1811 and 2412	5
Single i flase	20ACH3612	6
		7
	2OACH6012	,
Three Phase	2OACH3632	8
	2OACH3634	9
	2OACH6032	10
	2OACH6034	11
20AC Deluxe Portable	Air-cooled Spot Cooler	
		13-14
Piping Schematic		15
Single Phase	2OAC1211, 1811 and 2412	16
	2OAC3612	17
	2OAC6012	18
Three Phase	2OAC3632	19
	2OAC3634	20
	2OAC6032	21
	2OAC6032	22
		22
PAC Portable Air-coole	d Spot Cooler	24
		25
Single Phase	PAC1211, 1811, 2412 and 3612	26
	PAC6012	27
		- -
Three Phase	PAC3632	28
	PAC3634	29
	PAC6032	30
	PAC6034	31
CAC Portable Air-coole	d Spot Cooler	
Electronic Controller		33-34
		35
CAC1211		36
OWC Deluxe Portable V	Vater-cooled Spot Cooler	
Electronic Controller		38-39
Piping Schematic		40
Single Phase Three Phase	OWC1211, 1811 and 2412	41
	OWC3612	42
	OWC6012	43
	OWC3632	44
	OWC6032	45
	OWC3634 and 6034	46 46
		40
PWC Portable Water-co	<u>oled Spot Cooler</u>	
		48
	DIMO4044 4044 0440	49
Single Phase	PWC1211, 1811, 2412 and 3612	50
	PWC6012	51
Three Phase	PWC3632	52
	PWC6032	53
	PWC3634 and 6034	54
TUDEE DUASE MONITO	DR	
		55
		56
TECH NOTES		57

20ACH SERIES

Portable Air-Cooled Heat Pump



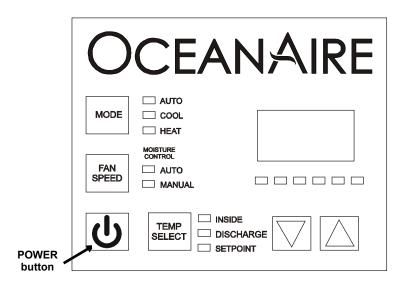






DELUXE ELECTRONIC CONTROLLER

The 2OACH controller is equipped with many features for a more precise level of comfort and operation. Additionally, the controller can be removed from the unit and installed for remote operation, if needed (accessory parts may be required).



OCEANAIRE DELUXE ELECTRONIC CONTROLLER

When power is connected, the controller will display "888" momentarily, and will then disappear. Press the **U** POWER button, then press the TEMP SELECT button until the SET POINT is displayed. Adjust the SET POINT to the desired temperature, and the unit will heat/cool as programmed.

The systems controls temperature within +/- 2°

POWER **U** - Turns the unit on/off when power is supplied

MODE - Select the mode of operation from

AUTO...COOL....HEAT....MOISTURE CONTROL.

AUTO - The controller will heat or cool as required. **HEAT or COOL** will display accordingly. A 4° differential is needed to change between cooling and heating modes.

COOL - The system will operate in **cooling mode**, **only**.

HEAT - The system will operate in **heating mode**, **only**.

MOISTURE CONTROL - The system operates in the cooling mode to reduce humidity within the conditioned space. Every 4 hours, the fan is started, circulating the air, and the air temperature is recorded by the controller. The cooling cycle is started for one hour, or until the room temperature drops 2°, which ever comes first. This cycle repeats every four hours.

FAN SPEED—The operator can select between **AUTO or MANUAL** fan speed control. Pressing the **FAN SPEED** button will switch speed from **AUTO to MANU**AL. In **MANUAL** mode, pressing the **FAN SPEED** button will change fan speed from low to high. In **AUTO** mode, the fan speed is controlled automatically. In cooling mode, the controller automatically adjusts the fan speed to high, and as the inside temperature approaches the set point, the fan speed will reduce. In heat mode, the fan speed adjusts from low to high as the temperature reaches the set point

TEMP SELECT—Allows the operator to view the controller temperatures **INSIDE** = return air temperature, **DISCHARGE** = supply air temperature, **SET POINT** can be seen and adjusted by pressing ▲ or ▼.

CONTROLLER PROGRAMMING MENU

- 1) Make sure the unit has **b** power.
- 2) Press the power button "OFF".
- Press the following buttons in sequence "S-U-D-S" (Select—Up arrow — Down arrow — Select)
- 4) The display will begin flashing P1 and a number.









If there is no display, repeat the sequence, making sure the unit has power, but is turned OFF.

- 5) To adjust any program feature, press the **ARROW UP** ▲ or **ARROW DOWN** ▼ button until the desired value is displayed.
- 6) Use the "MODE" button to scroll through the programmable settings P1 through P16.
- 7) If no buttons are pressed, the display will then return to the "**OFF**" position after about 50 seconds.

PROGRAM SETTINGS

P1—High Fan Speed Limit Setting. 56 - 85

P2—Low Fan Speed Limit Setting, 30 - 55

P4—Temperature Sensor Calibration, +/- 10°

P10— Temperature Display, °F or °C

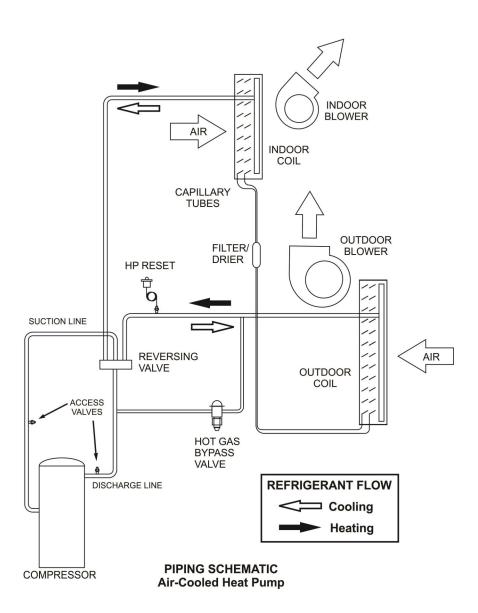
P13—Supply Fan Operation, Cycling or Continuous

P15—Fan Motor Type Setting, PSC or Shaded Pole

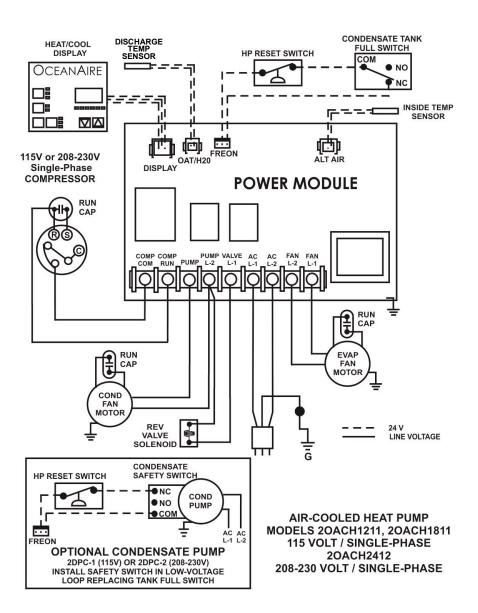
- **P1**, **P2** To adjust fan speed settings, P1 represents the high fan speed parameter, while P2 represents the low fan speed parameter. When using nozzle kits, discharge duct adapters and evaporator plenums, setting P1 to 85 will help to avoid freeze ups.
- P4 Adjust the P4 setting to match the actual INSIDE room temperature, if needed.
- P10 Use this parameter to display temperatures in the desired units.
- **P13** To cycle the evaporator fan with the compressor, access code P-13. Press the up or down button to switch to "**CYC**", which means cycle the fan with the compressor. The factory default setting is "**CON**", which means continuous fan operation.
- P15 Fan Motors are PSC type, SC should be selected.
- 8) Press **U** POWER you should see an alphanumeric code.

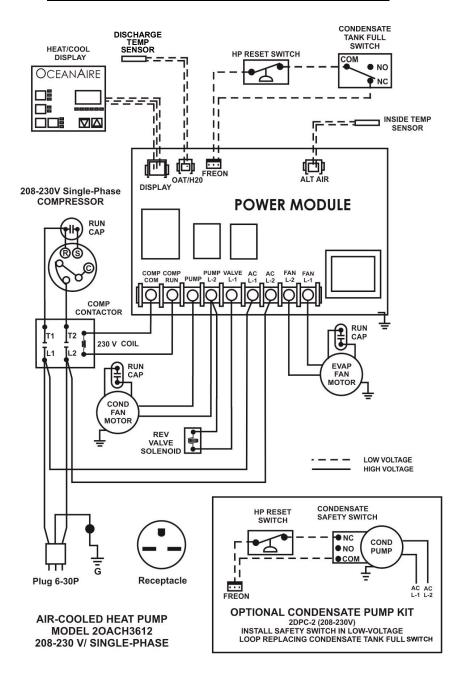
Press **O POWER** and the unit will start at the new settings.

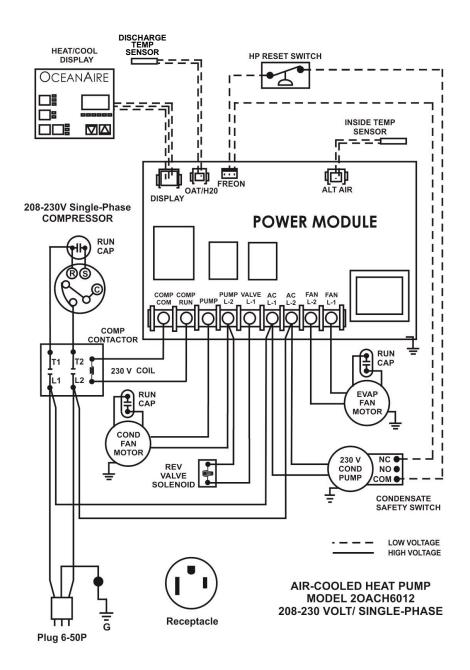
PIPING SCHEMATIC

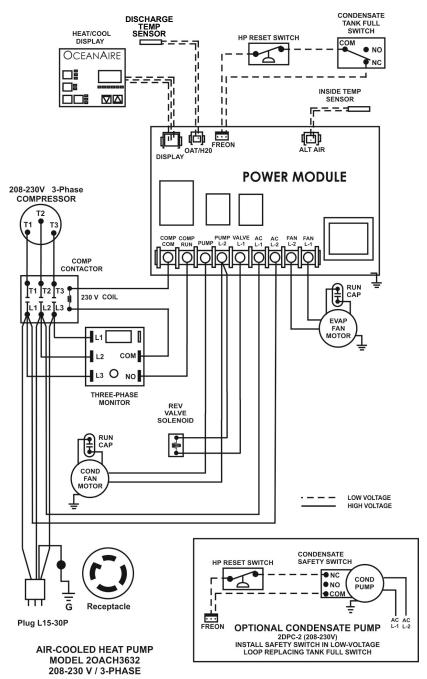


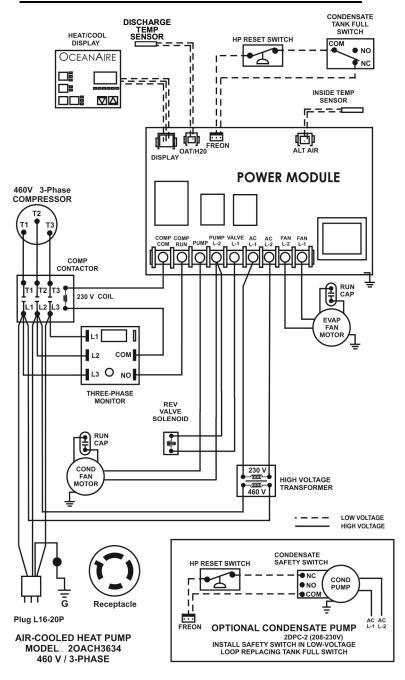
WIRING SCHEMATIC FOR 20ACH1211, 1811 and 2412

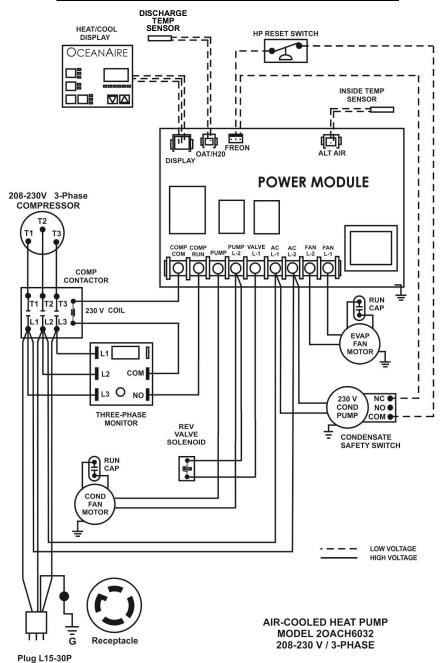


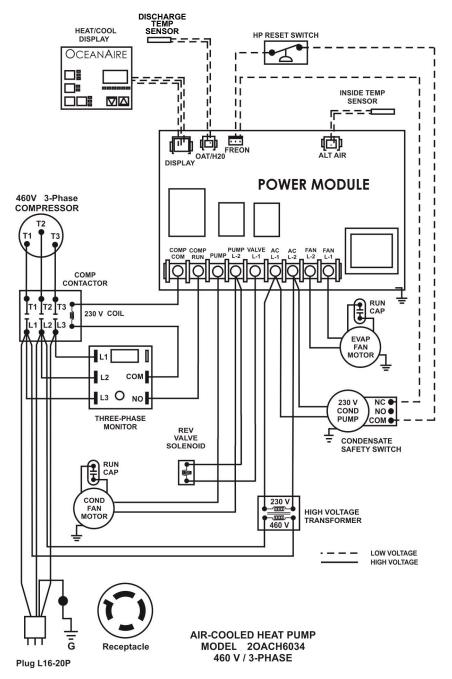












20AC SERIES

Deluxe Portable Air-Cooled Spot Cooler



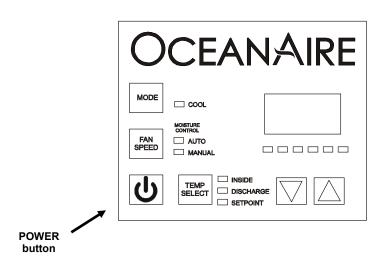






DELUXE ELECTRONIC CONTROLLER

The 2OAC controller is equipped with many features for a more precise level of cooling and operation. Additionally, the controller can be removed from the unit and installed for remote operation, if needed (accessory parts may be required).



OCEANAIRE DELUXE ELECTRONIC CONTROLLER

When power is connected, the controller will display "888" momentarily, and will then disappear. Press the **POWER** button, then press the **TEMP SELECT** button until the **SET POINT** is displayed. Adjust the **SET POINT** to the desired temperature, and the unit will cool as programmed.

The systems controls temperature within +/- 2°

POWER—Turns the unit on/off when power is supplied

MODE - Select the Cool or Moisture Control

COOL - The system will operate in cooling mode, only

MOISTURE CONTROL - The system operates in the cooling mode to reduce humidity within the conditioned space. Every 4 hours, the fan is started, circulating the air, and the air temperature is recorded by the controller. The cooling cycle is started for one hour, or until the room temperature drops 2°, which ever comes first. This cycle repeats every four hours.

FAN SPEED—The operator can select between AUTO or MANUAL fan speed control. Pressing the FAN SPEED button, will switch speed from AUTO to MANUAL. In MANUAL mode, pressing the FAN SPEED button will change fan speed from low to high. In AUTO mode, the fan speed is controlled automatically. In cooling mode, the controller automatically adjusts the fan speed to high, and as the inside temperature approaches the set point, the fan speed will reduce.

TEMP SELECT— Allows the operator to view the controller temperatures **INSIDE** = return air temperature, **DISCHARGE** = supply air temperature. **SET POINT** can be seen and adjusted, by pressing ▲ or ▼.

CONTROLLER PROGRAMMING MENU

- 1) Make sure the unit has power.
- 2) Press the **b** power button **'OFF**".
- 3) Press the following buttons in sequence "S-U-D-S" (Select—Up arrow — Down arrow — Select)
- 4) The display will begin flashing P1 and a number.









If there is no display, repeat the sequence, making sure the unit has power, but is turned OFF.

- 5) To adjust any program feature, press the ARROW UP ▲ or ARROW DOWN ▼ button until the desired value is displayed.
- 6) Use the "MODE" button to scroll through the programmable settings P1 through P16.
- 7) If no buttons are pressed, the display will then return to the "OFF" position after about 50 seconds.

PROGRAM SETTINGS

P1—High Fan Speed Limit Setting. 56 - 85

P2-Low Fan Speed Limit Setting, 30 - 55

P4—Temperature Sensor Calibration. +/- 10°

P10— Temperature Display, °F or °C

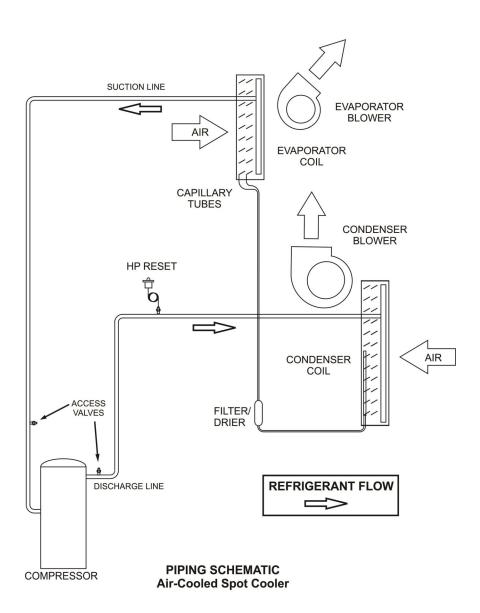
P13—Supply Fan Operation, Cycling or Continuous

P15—Fan Motor Type Setting, PSC or Shaded Pole

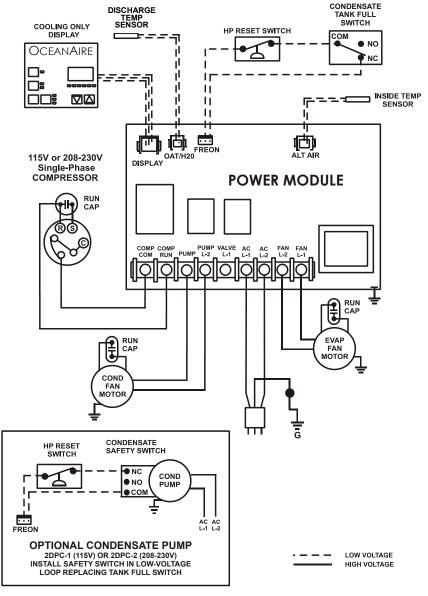
- P1, P2 To adjust fan speed settings, P1 represents the high fan speed parameter, while P2 represents the low fan speed parameter. When using nozzle kits, discharge duct adapters and evaporator plenums, setting P1 to 85 will help to avoid freeze ups.
- P4 Adjust the P4 setting to match the actual INSIDE room temperature, if needed.
- P10 Use this parameter to display temperatures in the desired units.
- P13 To cycle the evaporator fan with the compressor, access code P-13. Press the up or down button to switch to "CYC", which means cycle the fan with the compressor. The factory default setting is "CON", which means continuous fan operation.
- P15 Fan Motors are PSC type, SC should be selected.
- 8) Press **POWER** you should see an alphanumeric code.

Press **POWER** and the unit will start at the new settings

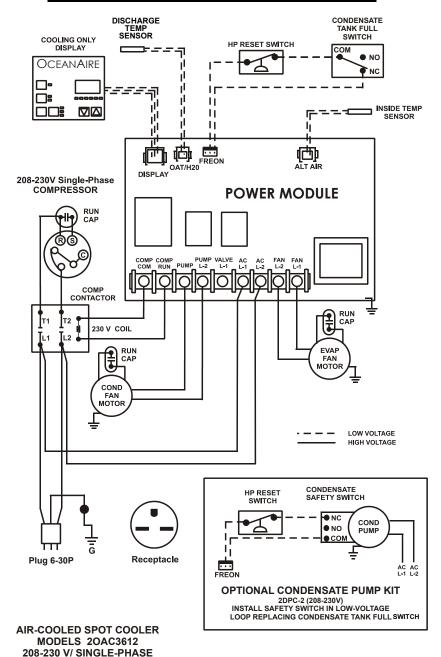
PIPING SCHEMATIC

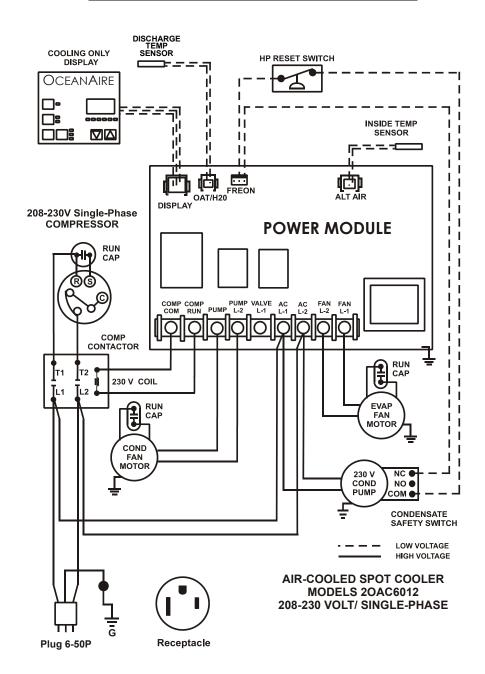


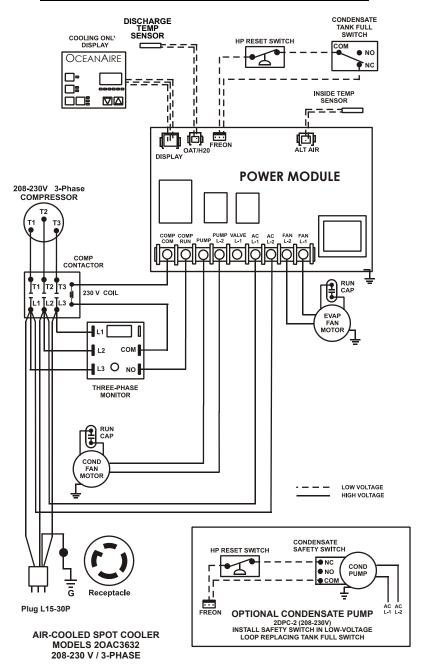
WIRING SCHEMATIC FOR 2OAC1211, 1811 and 2412

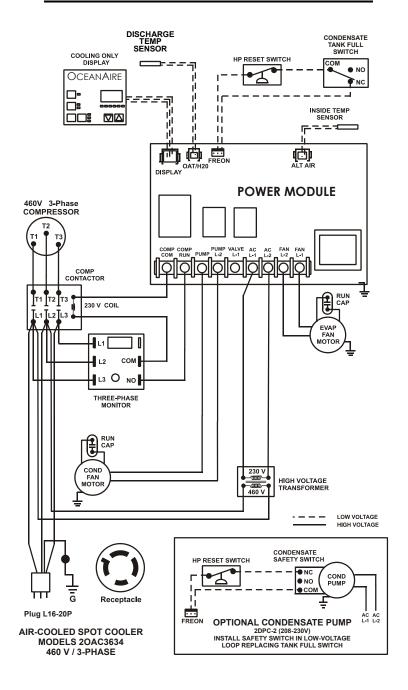


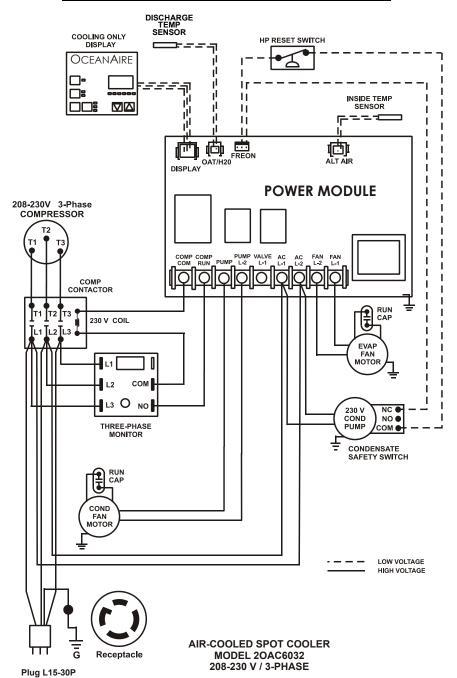
AIR-COOLED SPOT COOLER MODELS 20AC1211, 20AC1811 115 V / SINGLE-PHASE MODELS 20AC2412 208-230 V / SINGLE-PHASE

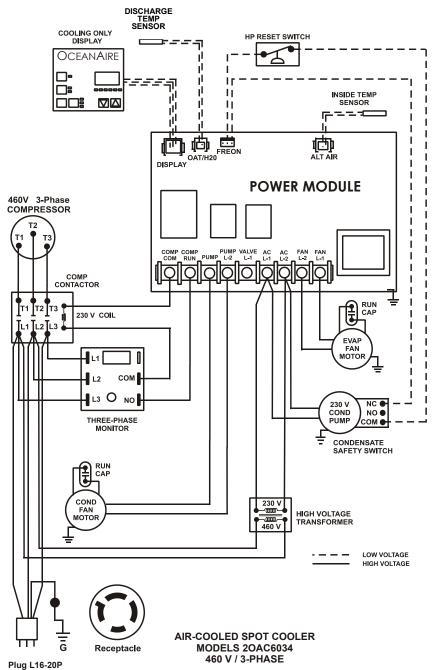












PAC series

Portable Air-Cooled Spot Cooler









THERMOSTAT OPERATION

FAN

When the power is connected, the LCD screen on the thermostat will illuminate. Pressing the FAN button once will turn on the evaporator fan blower. To turn the blower off, push the FAN button again.

COOLING MODE *

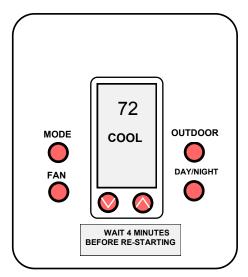
To operate unit for cooling, push **MODE** button to display **COOL** in the window.

Push down arrow button multiple times to lower set point to desired temperature.

The display will show the set-point temperature for 5 seconds. Then it will return to room temperature display.

After a slight pause, both fan motors and compressor will start, beginning the cooling cycle.

Remember, the set-point must be lower than the room temperature for the unit to start.



The OUTDOOR and DAY/NIGHT buttons are not used and do not affect unit operation.

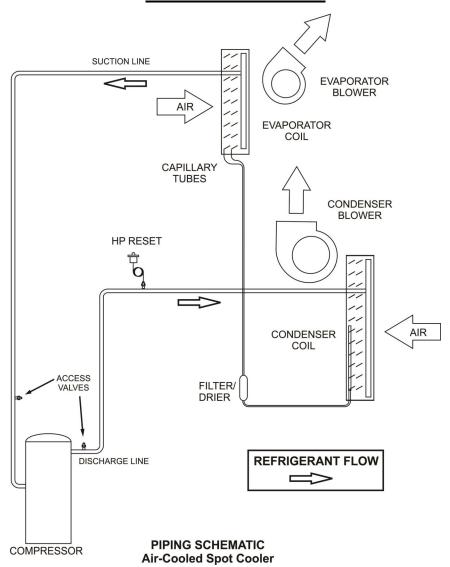
This is a cooling only thermostat. Select the temperature you want by pressing the ▲ or ▼ buttons. The word COOL and the temperature set-point is displayed for 5 seconds.

To change display to Celsius, simultaneously press the ▲ and ▼ buttons. Press them again to change back to Fahrenheit.

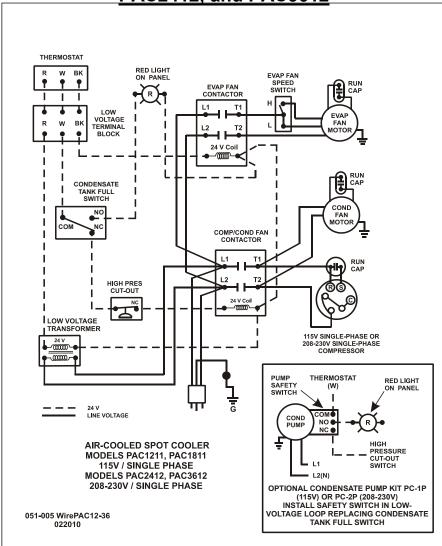
No batteries are required. In the event of a power failure, when the power is restored the thermostat will continue operating as if the power had never been off.

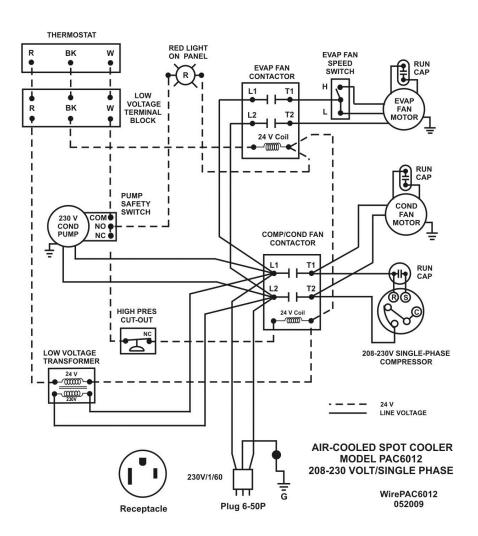
Compressor short cycle protection is built-in to the thermostat. A time delay will protect the unit.

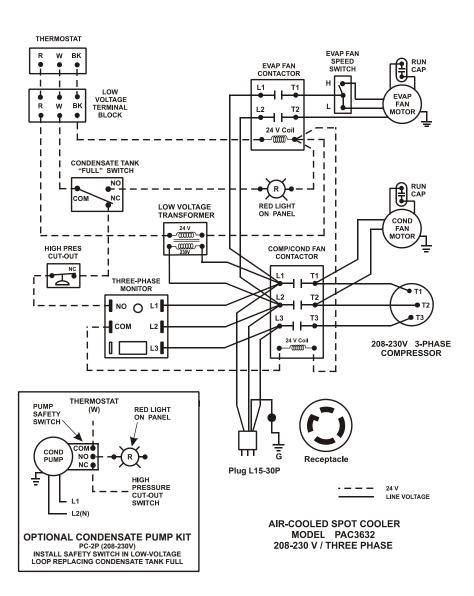
PIPING SCHEMATIC

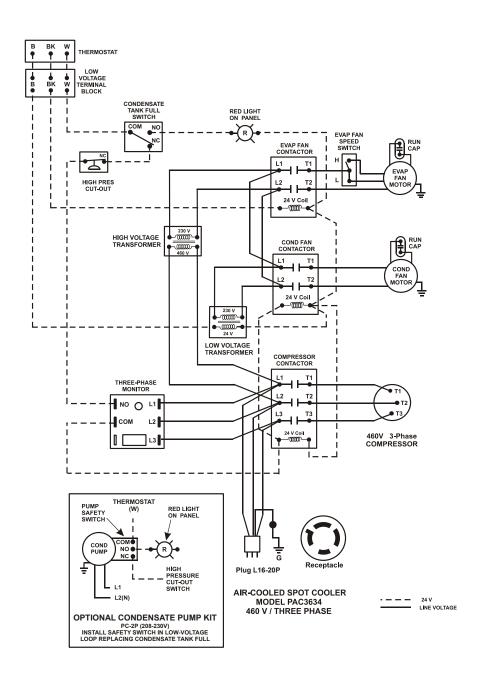


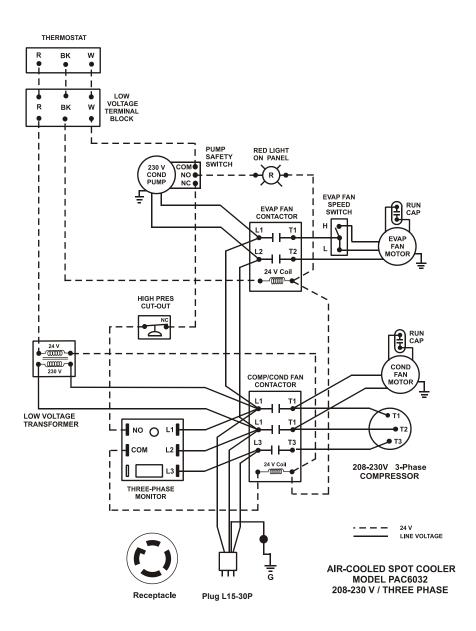
WIRING SCHEMATIC FOR PAC1211, PAC1811, PAC2412, and PAC3612

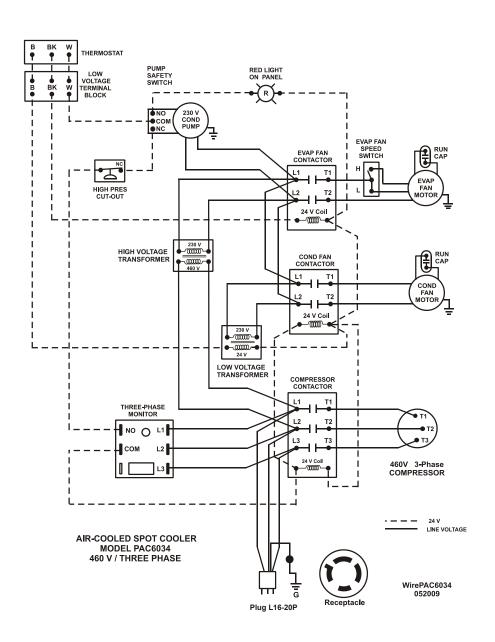












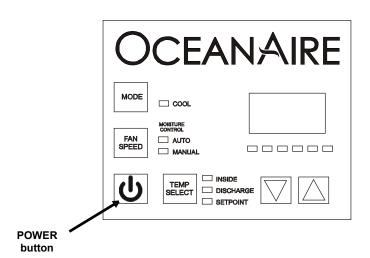
CAC series Portable Air-Cooled Spot Cooler





DELUXE ELECTRONIC CONTROLLER

The CAC controller is equipped with many features for a more precise level of cooling and operation. Additionally, the controller can be removed from the unit and installed for remote operation, if needed (accessory parts may be required).



OCEANAIRE DELUXE ELECTRONIC CONTROLLER

When power is connected, the controller will display "888" momentarily, and will then disappear. Press the **POWER** button, then press the **TEMP SELECT** button until the **SET POINT** is displayed. Adjust the **SET POINT** to the desired temperature, and the unit will cool as programmed.

The systems controls temperature within +/- 2°

POWER—Turns the unit on/off when power is supplied

MODE - Select the Cool or Moisture Control

COOL - The system will operate in cooling mode, only

MOISTURE CONTROL - The system operates in the cooling mode to reduce humidity within the conditioned space. Every 4 hours, the fan is started, circulating the air, and the air temperature is recorded by the controller. The cooling cycle is started for one hour, or until the room temperature drops 2°, which ever comes first. This cycle repeats every four hours.

FAN SPEED—The operator can select between **AUTO** or **MANUAL** fan speed control. Pressing the **FAN SPEED** button, will switch speed from **AUTO** to **MANUAL**. In **MANUAL** mode, pressing the **FAN SPEED** button will change fan speed from low to high. In **AUTO** mode, the fan speed is controlled automatically. In cooling mode, the controller automatically adjusts the fan speed to high, and as the inside temperature approaches the set point, the fan speed will reduce.

TEMP SELECT— Allows the operator to view the controller temperatures **INSIDE** = return air temperature, **DISCHARGE** = supply air temperature, **SET POINT** can be seen and adjusted, by pressing ▲ or ▼.

CONTROLLER PROGRAMMING MENU

- 1) Make sure the unit has power.
- 2) Press the power button "OFF".
- 3) Press the following buttons in sequence "S-U-D-S" (Select—Up arrow Down arrow Select)
- 4) The display will begin flashing P1 and a number.









If there is no display, repeat the sequence, making sure the unit has power, but is turned OFF.

- 5) To adjust any program feature, press the **ARROW UP** ▲ or **ARROW DOWN** ▼ button until the desired value is displayed.
- **6)** Use the "**MODE**" button to scroll through the programmable settings P1 through P16.
- 7) If no buttons are pressed, the display will then return to the "**OFF**" position after about 50 seconds.

PROGRAM SETTINGS

P1-High Fan Speed Limit Setting. 56 - 85

P2—Low Fan Speed Limit Setting, 30 - 55

P4—Temperature Sensor Calibration, +/- 10°

P10— Temperature Display, °F or °C

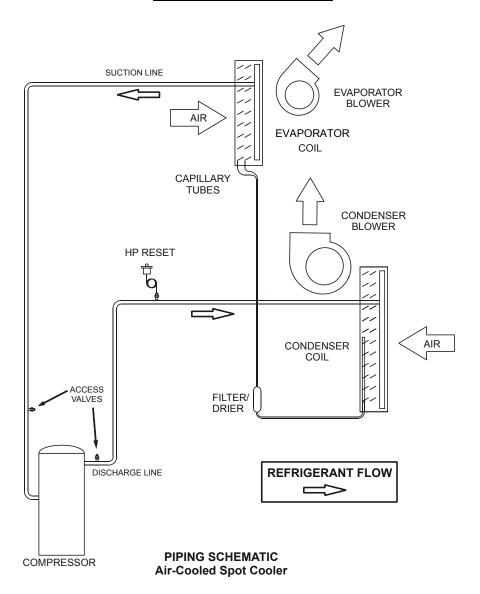
P13—Supply Fan Operation, Cycling or Continuous

P15—Fan Motor Type Setting, PSC or Shaded Pole

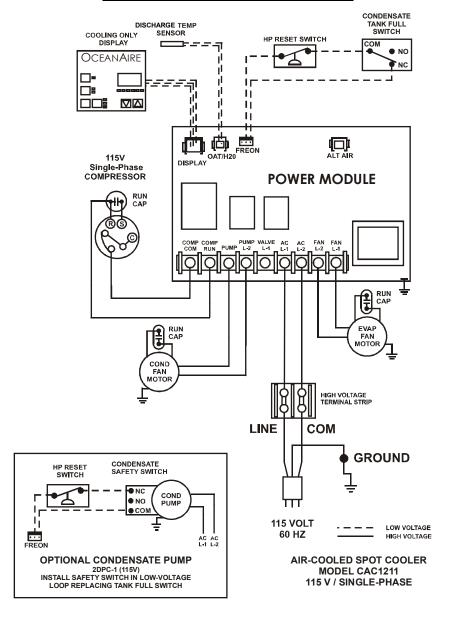
- **P1**, **P2** To adjust fan speed settings, **P1** represents the high fan speed parameter, while P2 represents the low fan speed parameter. When using nozzle kits, discharge duct adapters and evaporator plenums, setting P1 to 85 will help to avoid freeze ups.
- **P4** Adjust the **P4** setting to match the actual INSIDE room temperature, if needed.
- P10 Use this parameter to display temperatures in the desired units.
- **P13** To cycle the evaporator fan with the compressor, access code **P-13**. Press the up or down button to switch to "CYC", which means cycle the fan with the compressor. The factory default setting is "CON", which means continuous fan operation.
- P15 Fan Motors are PSC type, SC should be selected.
- 8) Press **POWER** you should see an alphanumeric code.

Press **POWER** and the unit will start at the new settings

PIPING SCHEMATIC



CAC1211 WIRING DIAGRAM



WHEN FIELD WIRING—USE COPPER CONDUCTORS ONLY

OWC series

Deluxe Portable Water-Cooled Spot Cooler



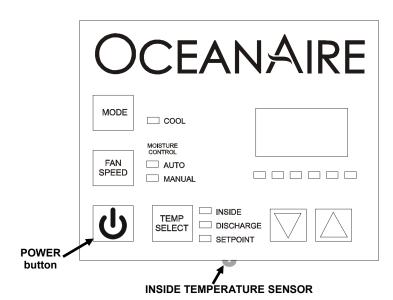






DELUXE ELECTRONIC CONTROLLER

The OWC controller is equipped with many features for a more precise level of cooling and operation. Additionally, the controller can be removed from the unit and installed for remote operation when using an extended display cable. Also, with the addition of a remote sensor, the controller can operate away from the unit while sensing temperatures in another space or in ductwork, overriding the inside temperature sensing bulb on the bottom of the thermostat— accessory parts may be required.



OCEANAIRE DELUXE ELECTRONIC CONTROLLER

When power is connected, the controller will display "888" momentarily, and then disappear. Press the POWER button, then press the TEMP SELECT button until the SET POINT is displayed. Adjust the SET POINT to the desired temperature, and the unit will cool as required.

The systems controls temperature within +/- 2°

POWER—Turns the unit on/off when power is supplied

MODE - Selects the mode of operation between Cool and Moisture Control.

COOL - The system will operate in cooling mode only.

MOISTURE CONTROL - The system operates in the cooling mode to reduce humidity within the conditioned space.

Every 4 hours, the fan is started, circulating the air, and the air temperature is recorded by the controller. The cooling cycle is started for one hour, or until the room temperature drops 2°, which ever comes first. This cycle repeats every four hours.

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TEMP SELECT— Allows the operator to view the controller temperatures **INSIDE** = return air temperature, **DISCHARGE** = supply air temperature, **SET POINT** can be seen and adjusted, by pressing ▲ or ▼.

CONTROLLER PROGRAMMING MENU

- 1) Make sure the unit has power.
- 2) Press the **b** power button 'OFF".
- Press the following buttons in sequence "S-U-D-S" (Select—Up arrow — Down arrow — Select)
- 4) The display will begin flashing P1 and a number.









If there is no display, repeat the sequence, making sure the unit has power, but is turned OFF.

- 5) To adjust any program feature, press the **ARROW UP** ▲ or **ARROW DOWN** ▼ button until the desired value is displayed.
- 6) Use the "MODE" button to scroll through the programmable settings P1 through P16.
- 7) If no buttons are pressed, the display will then return to the "**OFF**" position after about 50 seconds

PROGRAM SETTINGS

P1—High Fan Speed Limit Setting. 56 - 85

P2-Low Fan Speed Limit Setting, 30 - 55

P4—Temperature Sensor Calibration, +/- 10°

P10— Temperature Display, °F or °C

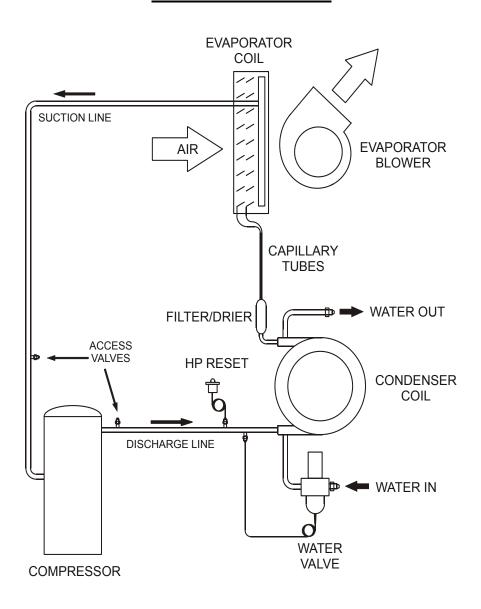
P13—Supply Fan Operation, Cycling or Continuous

P15—Fan Motor Type Setting, PSC or Shaded Pole

- **P1**, **P2** To adjust fan speed settings, **P1** represents the high fan speed parameter, while P2 represents the low fan speed parameter. When using nozzle kits, discharge duct adapters and evaporator plenums, setting P1 to 85 will help to avoid freeze ups.
- P4 Adjust the P4 setting to match the actual INSIDE room temperature, if needed.
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- P15 Fan Motors are PSC type. SC should be selected.
- 8) Press **POWER** you should see an alphanumeric code.

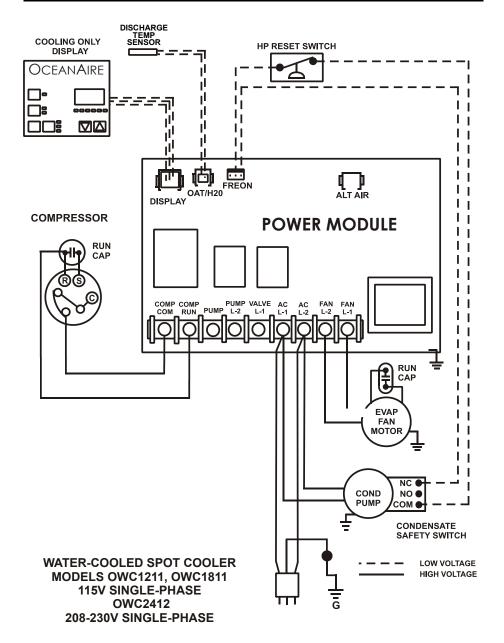
Press POWER and the unit will start at the new settings

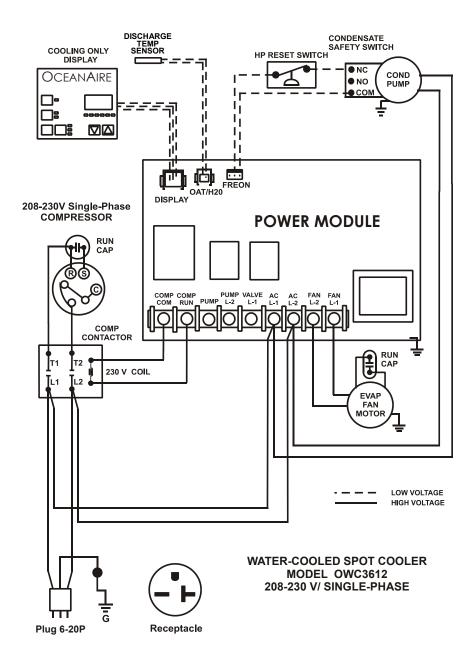
PIPING SCHEMATIC

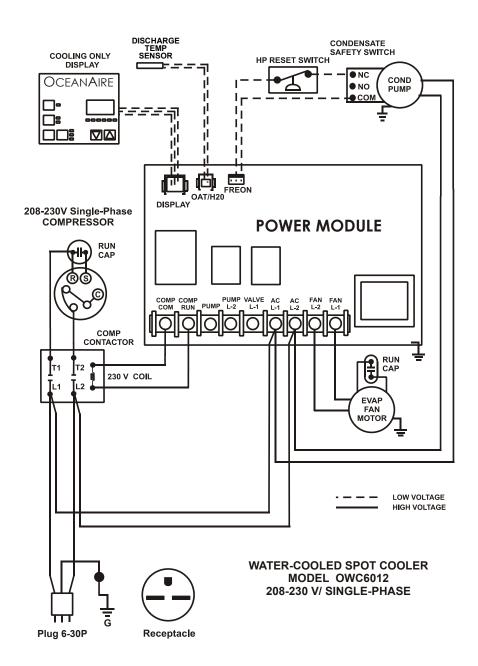


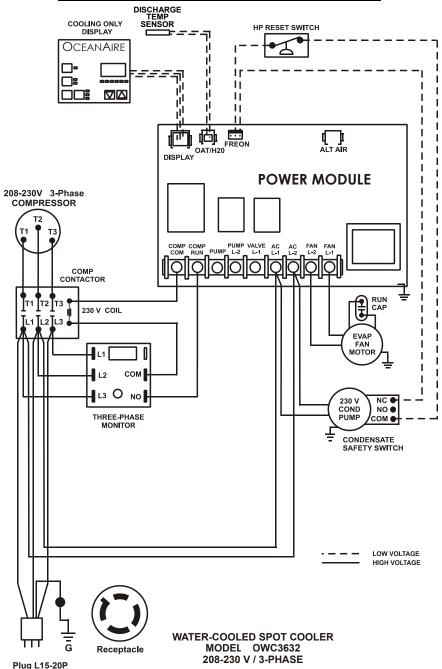
PIPING SCHEMATIC Water-Cooled Spot Cooler

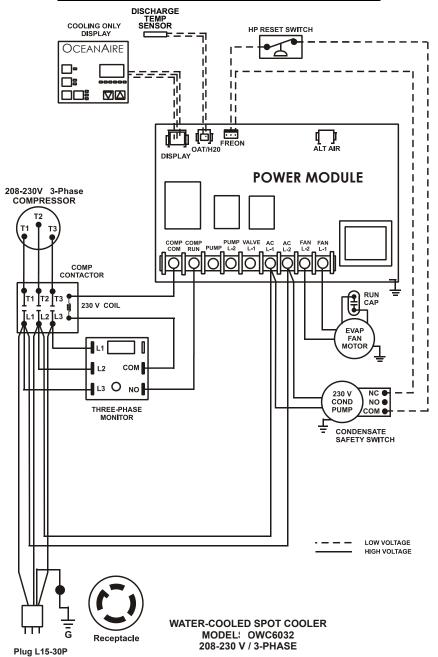
WIRING SCHEMATIC FOR OWC1211, 1811 and 2412



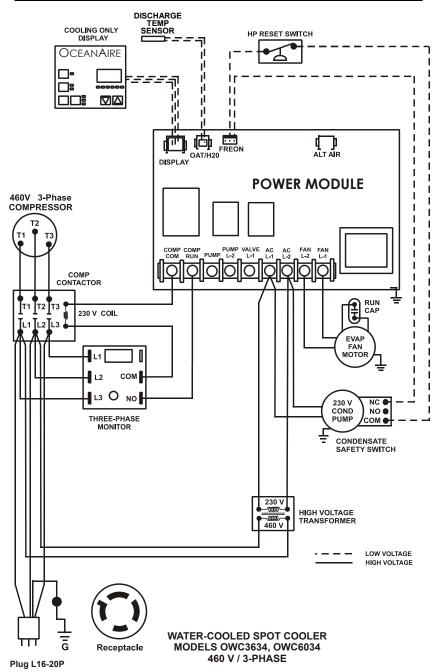








WIRING SCHEMATIC FOR OWC3634 and 6034



PWC series

Portable Water-Cooled Spot Cooler







THERMOSTAT OPERATION

FAN

When the power is connected, the LCD screen on the thermostat will illuminate. Pressing the FAN button once, will turn on the evaporator fan blower. To turn the blower off, push the FAN button once again.

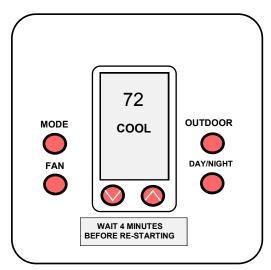
COOLING MODE *

To operate unit for cooling, push MODE button to display COOL in the window.

Push down arrow button multiple times to lower set point to desired temperature.

The display will show the set-point temperature for 5 seconds, then it will return to room temperature display.

After a slight pause, the fan motor and compressor will start, beginning the cooling cycle. Remember, the set-point must be lower than the room temperature for the unit to start.



The OUTDOOR and DAY/NIGHT buttons are not used and do not effect unit operation.

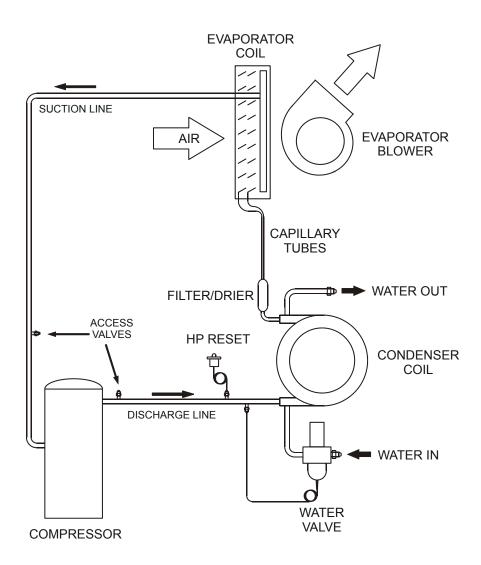
This is a cooling only thermostat. Select the temperature you want by pressing the ▲ or ▼ buttons. The word COOL and the temperature set-point is displayed for 5 seconds.

To change display to Celsius, simultaneously press the ▲ and ▼ buttons. Press them again to change back to Fahrenheit.

No batteries are required. In the event of a power failure, when the power is restored the thermostat will continue operating as if the power had never been off.

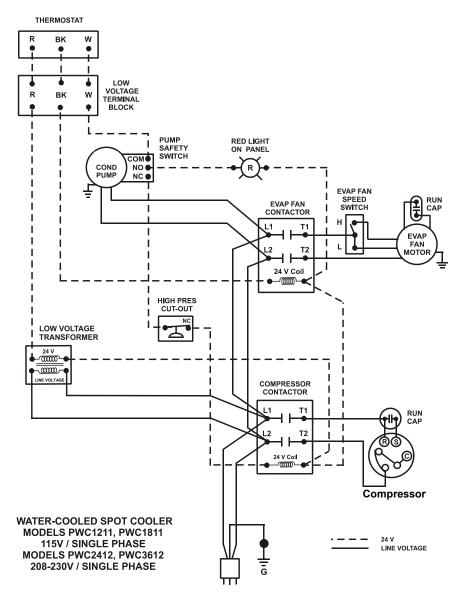
Compressor short cycle protection is built-in to the thermostat. A 4-minute time delay will protect the unit.

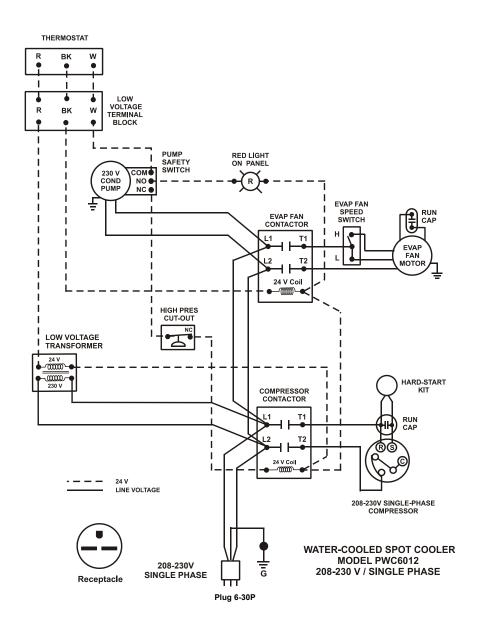
PIPING SCHEMATIC

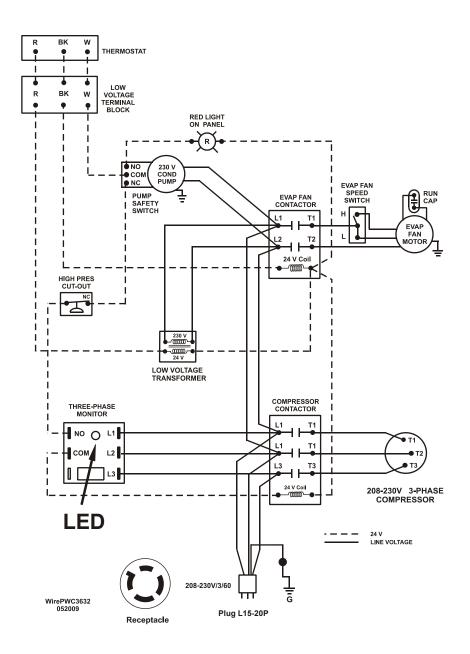


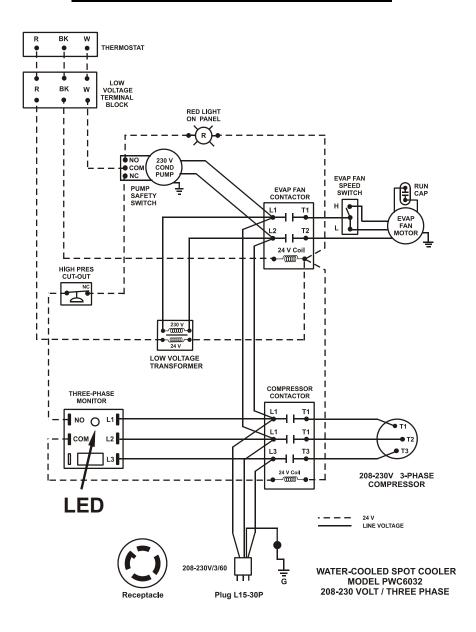
PIPING SCHEMATIC Water-Cooled Spot Cooler

WIRING SCHEMATIC FOR PWC1211, PWC1811, PWC2412, and PWC3612

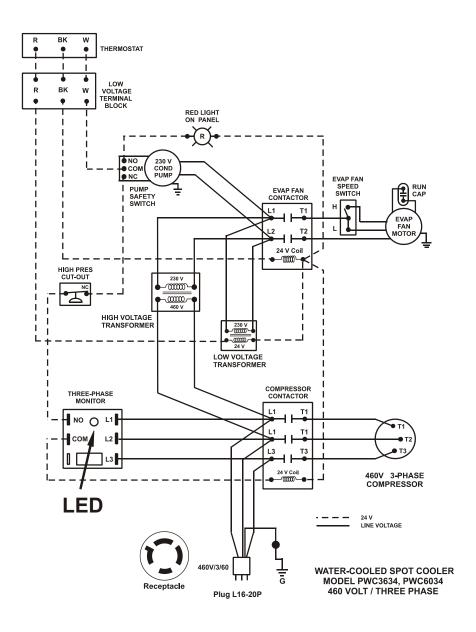








WIRING SCHEMATIC FOR PWC3634 and PWC6034



THREE PHASE MONITOR

Three-Phase units are equipped with monitors for motor protection. The OceanAire Three-phase Monitor safeguards the unit against incorrect compressor rotation, low-voltage and/or loss of power in any one of the power legs. The monitor is installed in the control box and is equipped with an LED for diagnosis of an improper electrical condition (see diagrams below). When power is connected, the compressor WILL NOT engage until the monitor start delay has timed out. If the thermostat does not power up, an electrical condition may need to be addressed. Remove the control box cover and observe the LED on the phase monitor. The LED signals the following:

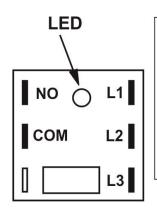
GREEN-BLINKING - Start delay, 120 sec.

GREEN - Proper Operation

RED/GREEN-BLINKING - signals reverse phase rotation. Switch any two of the power leads for the unit, NOT THE MONITOR LEADS, and re-start.

RED-BLINKING - signals improper voltage and/or phase loss. Correct the power problem, then re-start the unit.

In the event of a power interruption, the unit will re-set to a start-up condition. The Phase Monitor will not allow the unit to start until power is corrected.



NOTICE UNIT IS EQUIPPED WITH 3-PHASE POWER MONITOR (WITH LED)

LED INDICATION
GREEN (BLINKING) = START DELAY
GREEN = PROPER OPERATION
RED/GREEN (BLINKING) = PHASE REVERSAL
RED (BLINKING) = IMPROPER LEG VOLTAGE
OR PHASE LOSS

START DELAY = 120 SECONDS

CONTROL BOX LABEL

THREE-PHASE MONITOR

LIMITED WARRANTY

The Manufacturer (OceanAire, Inc.) warrants to the original owner that the Product will be free from defects in material or workmanship for a period not to exceed one (1) year from date of installation. If upon examination by the Manufacturer, the Product is shown to have a defect in material or workmanship during the warranty period, the Manufacturer will repair or replace, at its option, that part of the Product which is shown to be defective.

The Manufacturer further warrants that the product's compressor-motor will be free from defects in materials and workmanship for five (5) years from the date of installation.

If upon examination by the Manufacturer the Product is shown to have a defect in materials or workmanship during the warranty period, the Manufacturer will repair or replace, at its option, that Part of the Product which is shown to be defective. *Compressor warranty shall be pro-rated for years 2 – 5 at the sole discretion of OceanAire*. Electrical parts such as relays, overloads, capacitors, etc., and the sealed refrigeration system (condenser and evaporator) are included in the one year limited warranty, but not with the five year limited warranty of the compressor.

This limited warranty does not apply to:

- a) Product that has been subjected to misuse or neglect, has been accidentally or intentionally damaged, has not been installed, maintained or operated in accordance with the furnished written instructions, or has been altered or modified in any way.
- b) Product that has been subjected to any abnormal power conditions such as loss of power, power surges, voltage irregularities such as brown-outs or phase loss on three-phase equipment).
- any expenses, including labor or material, incurred during removal or reinstallation of the Product.
- d) any workmanship of the installer of the Product.

This limited warranty is conditional upon:

- a) return to the Manufacturer, of the part of the Product thought to be defective.
 - Goods can only be returned with prior written approval from the Manufacturer. All returns must be freight prepaid.
- b) determination in the reasonable opinion of the Manufacturer, that there exists a defective in material or workmanship.

Repair or replacement of any part under this Limited Warranty shall not extend the duration of the warranty with respect to such repaired or replaced part beyond the stated warranty period.

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED, AND ALL SUCH OTHER WARRANTIES, INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY DISCLAIMED AND EXCLUDED FROM THIS LIMITED WARRANTY. IN NO EVENT SHALL THE MANUFACTURER BE LIABLE IN ANY WAY FOR ANY CONSEQUENTIAL, SPECIAL, OR INCIDENTAL DAMAGES OF ANY NATURE WHATSOEVER, OR FOR ANY AMOUNTS IN EXCESS OF THE SELLING PRICE OF THE PRODUCT OR ANY PARTS THEREOF FOUND TO BE DEFECTIVE. THIS LIMITED WARRANTY GIVES THE ORIGINAL OWNER OF THE PRODUCT SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY BY EACH JURISDICTION.

TECH NOTES



