

PREPARATION



Disconnect electrical power at breaker or disconnect switch and lockout/tagout in accordance with procedures and codes.

Ensure incoming water to machine is secured either by use of a shut-off valve or by disconnecting incoming water line.

TOOLS REQUIRED

- 3/8" Nutdriver
- Standard Allen Wrench Set

EXAMPLES

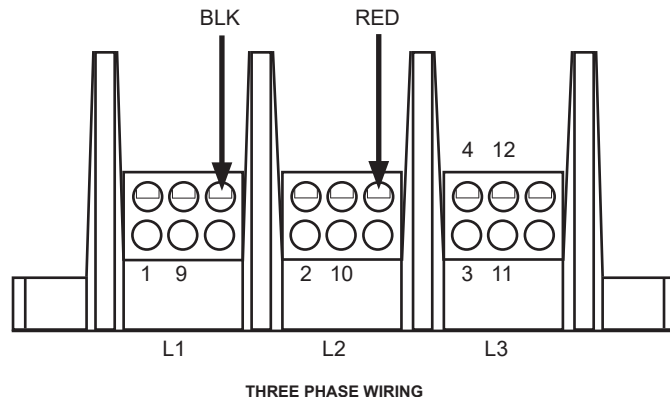
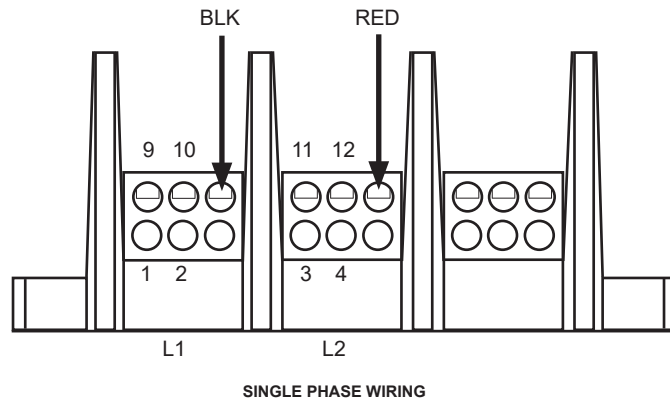
All examples in these instructions show a Single Phase machine being converted to a Three Phase machine.

Refer to page 5 for complete wiring diagrams.

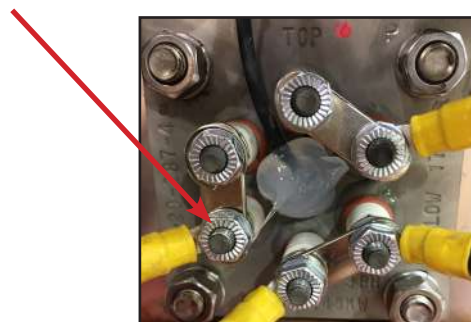
1. Follow Preparation section to left.
2. Remove dress panels (if equipped) and heater covers.
3. Locate incoming power terminal block and re-wire according to diagrams below (if converting to Single Phase, reference Single Phase diagram; if converting to Three Phase, reference Three Phase diagram). Wire numbers are found on individual wires. If not, contact manufacturer.

NOTICE

Motor wiring should not be affected.



4. Ensure wires on terminal block are properly tightened and secure.
5. Remove nuts holding wires to wash heater.



PHASE CONVERSION INSTRUCTIONS

DYNASTAR SERIES, NXP-HTD, TEMPSTAR SERIES, & CONSERVER XL-E LTH

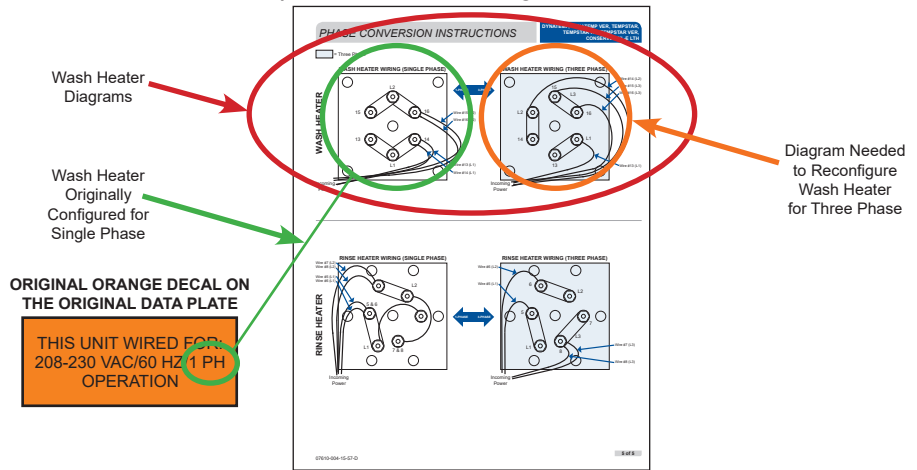


CAUTION! Ensure you locate the correct diagram!

6. Locate wash heater diagram on page 5 that matches the phase to which you are converting.

EXAMPLE

In this example, wash heater diagram locations are shown.

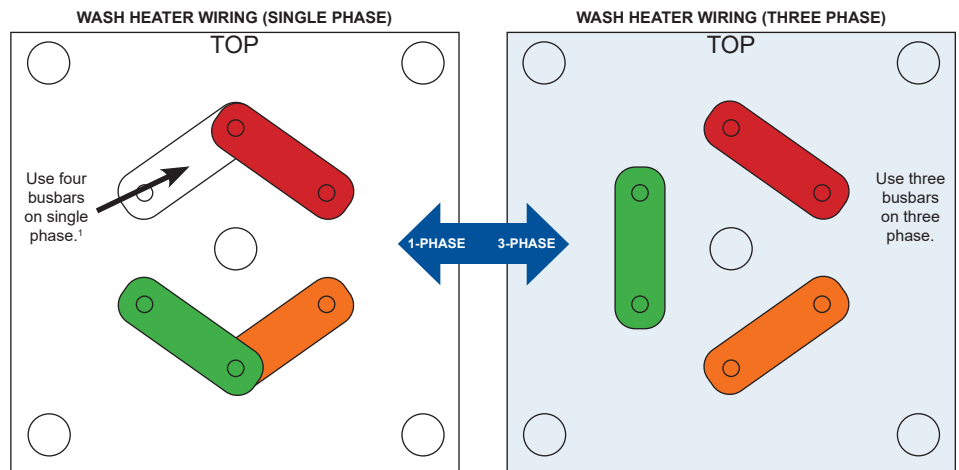


7. Reconfigure wash heater busbars (example below) and wires to match the diagram. Additional busbars are provided in the kit, if necessary.

EXAMPLE

In this example, busbars are reconfigured.

The diagrams are oriented "TOP" up. Your heater could be installed at a different rotation, so be aware as you reconfigure busbars and wires.



¹For Three Phase to Single Phase conversion, use a busbar from the kit.



WARNING! Any spacing between components can provide an opportunity for intermittent heating or arcing and is not safe!

8. Ensure wires on wash heater are tightened down and there is no spacing or gapping between the nut and the terminals or busbars.
9. Remove the nuts holding the wires to the rinse heater.





CAUTION! Ensure you locate the correct diagrams!

10. Locate rinse heater diagram on page 5 that matches the phase to which you are converting.

EXAMPLE

In this example, rinse heater diagram locations are shown.

ORIGINAL ORANGE DECAL ON THE ORIGINAL DATA PLATE

THIS UNIT WIRED FOR 208-230 VAC/60 HZ 1 PH OPERATION

Rinse Heaters Originally Configured for Single Phase

Rinse Heater Diagrams

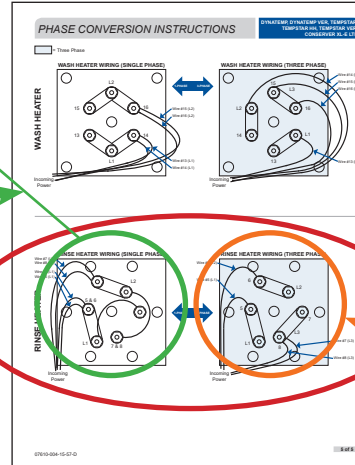


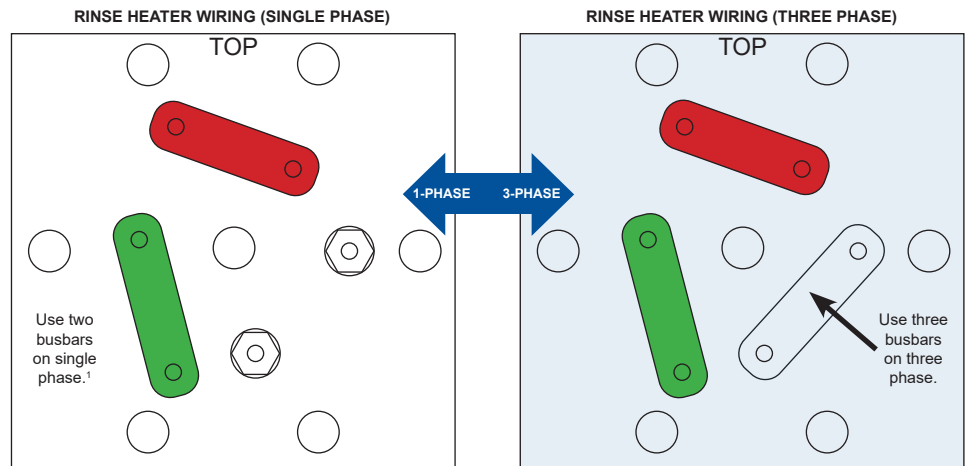
Diagram Needed to Reconfigure Rinse Heaters for Three Phase

11. Reconfigure rinse heater busbars, jumpers, and wires to match the diagram. Additional busbars and jumpers are provided in the kit, if necessary.

EXAMPLE

In this example, busbars are reconfigured.

The diagrams are oriented "TOP" up. Your heater could be installed at a different rotation, so be aware as you reconfigure busbars, jumpers, and wires.



¹For Three Phase to Single Phase conversion, one busbar will not be used.



WARNING! Any spacing between components can provide an opportunity for intermittent heating or arcing and is not safe!

12. Ensure wires are tightened down on rinse heater and there is no spacing or gapping between the nut and the terminals or busbars.
13. After re-wiring of wash heater and rinse heater is complete, double-check the wiring and configuration of busbars and jumpers by comparing to the diagrams on page 5.

NOTICE

Be completely sure the new wiring and configuration of busbars and jumpers matches the appropriate diagrams on page 5 before proceeding.

PHASE CONVERSION INSTRUCTIONS

DYNASTAR SERIES, NXP-HTD, TEMPSTAR SERIES, & CONSERVER XL-E LTH



CAUTION! Ensure you select the correct decal!

- Place the correct yellow phase conversion notice decal (that matches the phase to which you've converted) over the orange decal on the original data plate. Failure to do so will void the warranty.

EXAMPLE

In this example, the yellow phase conversion notice decal is placed over the original orange decal.

Originally Configured for Single Phase

THIS UNIT WIRED FOR 208-230 VAC/60 HZ/1 PH OPERATION

MODEL: DYNATEMP SERIAL NUMBER: XXXXXXXXX

| 208-230-460 Volt/60 Hz/1 Phase | | | | | |
|--------------------------------|---------|-----------|---------|-----------|-----------|
| COMPONENT | RATING | 208V AMPS | RATING | 230V AMPS | RATING |
| WASH MOTOR | 1.0 HP | 5.0 AMPS | 1.0 HP | 5.0 AMPS | 3/4 HP |
| WASH HEATER | 4.1 KW | 11.4 AMPS | 5.0 KW | 12.6 AMPS | 5.0 KW |
| RINSE HEATER | 19.5 KW | 29.1 AMPS | 12.9 KW | 32.4 AMPS | 12.9 KW |
| TOTAL LOAD | | 45.5 AMPS | | 49.9 AMPS | 24.3 AMPS |

| 208-230 Volt/60 Hz/1 Phase | | | | | |
|----------------------------|--------|-----------|---------|-----------|--|
| COMPONENT | RATING | 208V AMPS | RATING | 230V AMPS | |
| WASH MOTOR | 1.0 HP | 5.0 AMPS | 1.0 HP | 5.0 AMPS | |
| WASH HEATER | 4.1 KW | 19.7 AMPS | 5.0 KW | 21.7 AMPS | |
| RINSE HEATER | 5.5 KW | 50.4 AMPS | 12.9 KW | 56.1 AMPS | |
| TOTAL LOAD | | 75.1 AMPS | | 82.8 AMPS | |

Now Configured for Three Phase

PHASE CONVERSION NOTICE
THIS UNIT NOW WIRED FOR 208-230 VAC/60 HZ/3 PH OPERATION

OPERATING PARAMETERS
 MINIMUM WASH TEMPERATURE 150°F
 MINIMUM RINSE TEMPERATURE 180°F
 MINIMUM INCOMING WATER TEMPERATURE 110°F
 70°F RISE BOOSTER WITH VENTLESS OPTION 40-90°F
 WASH CYCLE TIME 40 SEC
 RINSE CYCLE TIME 11 SEC
 FLOW PRESSURE 8-12 PSI

ETL Intertek 4000897
 Intertek 4000897
 Made in the USA
 Jackson WWS, Inc.
 6209 N US HWY 25E
 Gray, KY 40734
 (606) 523-9795
 09905-004-29-08 E

- Some units have another orange decal on the back of the control box. If your unit has this decal, place another yellow phase conversion notice decal (ensure it's the correct phase) over the orange decal.
- Replace all heater covers and ensure they are securely in place. Do not pinch, bind, or damage the wires for the heaters or capillary tubes for the thermostats.
- Restore power and water to the unit.
- Refer to the unit's operation manual and go through the start-up process.
- Once the unit is operating, verify the amperage draws match the values for the new Phase on the original data plate and are in accordance with applicable codes.

NOTICE

If the unit is not operating within acceptable parameters, the machine SHOULD NOT BE OPERATED. Contact Technical Service for assistance.

NOTICE

Changing the phase of a machine results in different amperage load demand. A qualified electrician needs to review the service disconnect to ensure it meets the local, state, and national codes (as applicable) for the new characteristics.

PHASE CONVERSION INSTRUCTIONS

DYNASTAR SERIES, NXP-HTD, TEMPSTAR SERIES, & CONSERVER XL-E LTH

 = Three Phase

