Incoming 3-Phase Power

Fused Wall Disconnect
(Not Supplied by LVO)

Power Block L1
Power Block L2
Power Block L3

Ground Lug

Lower Pump Breaker — Lower Pump Contactor — Lower Pump Overload — M 3~ Lower Wash Pump

Upper Pump Breaker — Upper Pump Contactor — Upper Pump Overload — M 3~ Upper Wash Pump

Wash Heat Breaker — Wash Contactor — Wash Heater

Wash Heat Breaker — Wash Contactor — Wash Heater

Rinse Heat Breaker — Rinse Contactor — Rinse Heater

Rinse Heat Breaker — Rinse Contactor — Rinse Heater

Fan Breaker — Fan Drive — M 3~ Exhaust Fan

Primary Fuse
Primary Fuse

STB #1
STB #2

Power Switch

STB #4
STB #3

Transformer
(Transformer tap layout/voltages may vary)

460V 230V 208V 0V

0V 24V 115V

115VAC
To Fuse

Terminal Block (BTB – Bottom row of Terminal Blocks, STB – Side row of Terminal Blocks)
Component Terminal
Wired Connection
Component Internal Connection
Wired Connection (Optional)

24V Secondary Fuse

PLC L N

PLC Output Q3 2 1

Lower Pump Overload

Lower Pump Contactor (Coil) A2 A1

NO Pump Contactor Aux.

BTB Soap
Left Terminal

24VAC Soap Dispenser
(Not Supplied by LVO)

BTB Soap
Right Terminal

Fan Relay Socket #7 — Fan Relay (Coil) — Fan Relay Socket #2

BTB P1 — Pressure Switch — BTB P2

Upper Pump Overload

Upper Pump Contactor (Coil) A2 A1

BTB 1 — Float Switch — BTB 4

PLC Input I1

BTB T1 — Door Switch — BTB T2

PLC Input I2

PLC Input I9
(Optional)

STB #16 — Fill Button — STB #15

PLC Input I8

PLC Output Q4 2 1

BTB T3

Rinse/Fill Solenoid

Rinse/Fill Gauge Solenoid

BTB T4

STB #9

Rinse (& Fill) Light

STB #6

PLC Output Q2 2 1

STB #14

Wash Light

PLC Output Q8 2 1

STB #5

Power Light

Wash Selector

STB #11 — PLC Input I5

STB #12 — PLC Input I6

STB #13 — PLC Input I7

STB #10

Stop Button

STB #7 — PLC Input I3

Start Button

STB #8 — PLC Input I4

BTB H

Rinse Temp Control Relay

Rinse High Limit

BTB R

Rinse Contactor (Coil) A2 A1

Rinse Contactor (Coil) A2 A1

Wash Temp Control Relay

Wash High Limit

BTB W

Wash Contactor (Coil) A2 A1

Wash Contactor (Coil) A2 A1

Wash Temp Control

BTB C

Rinse Temp Control

Rinse Manifold Temp Readout

115VAC
To Transformer

115V Secondary Fuse
If needed for options

PLC Output Q6
Optional 2 1

BTB CL

PLC Output Q7
Optional 2 1

BTB O

Auto Drain Valve
Optional

M 1~

STB DCL
Top Terminal

Drain & Clean Light
Optional

STB DCL
Bottom Terminal

STB #18

Drain Button
Optional

STB #17

PLC Input IC

BTB H1

High Water Float Switch
Optional

BTB H4

PLC Input IA

Wash Temp Control Probe

Rinse Temp Control Probe

Rinse Man. Temp Readout Probe

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Fan Drive 21 (24V)

Fan Relay Socket #6

PLC Output Q5 2 1

Fan Relay Socket #5

Fan Drive 10 (DI3)

Fan Drive 12 (COM)

Fan Drive 22 (GND)

Fan Relay

Fan Relay Socket #8

Fan Drive 8 (DI1)

24VAC

0VAC

LVO Manufacturing, Inc
808 N 2nd Ave E
Rock Rapids, IA 51246
Phone: (712) 472-3734

Name: RW1548 - Electric Heat (with Options)

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