Item # \_

Quantity \_\_\_\_\_

### C.S.I. Section 11400

# HOBART

701 S Ridge Avenue, Troy, OH 45374 1-888-4HOBART • www.hobartcorp.com

# CL54eN-EGR ENERGY RECOVERY/ CL54eN-ADV advansys DISHWASHER

### STANDARD FEATURES

- Drain Water Energy Recovery (DWER)
- Automatic Soil Removal (ASR) (Standard on advansis model only)
- 245 racks per hour
- Opti-RinSe<sup>™</sup> system
- Drain water tempering kit (DWT)
- 30 KW electric booster heater
- Rapid return conveyor drive mechanism
- Insulated hinged double doors with door interlock switches
- Door seal system
- Pressure regulating valves
- 19.5 inch chamber height opening
- Top mounted micro-processer control module
- Energy saver mode
- Dirty water indicator
- Low temperature alert
- NSF rated configurable Pot and Pan dwell mode
- Configurable "intelligent" delime notification
- Service diagnostics
- NAFEM Data Protocol compliant
- Computational fluid dynamic designed selfaligning wash manifolds
- Stainless steel debossed anti-clogging wash arms
- Removable integrated pump intake screen
- Stainless steel self-draining pump and impeller
- Single, sloping scrap screen and deep basket
- Stainless panels enclose perimeter and bottom
- Door actuated drain closure
- Single point electrical connection (does not include the booster heater)

### **DIRECTION OF OPERATION**

- Right to Left
- Left to Right

### VOLTAGE

- 208/60/3
  480/60/3
- □ 240/60/3 □ 600/60/3

### MODEL

- CL54eN-EGR Energy Recovery Dishwasher
- CL54eN-ADV advansýs Dishwasher

### **OPTIONS AT EXTRA COST**

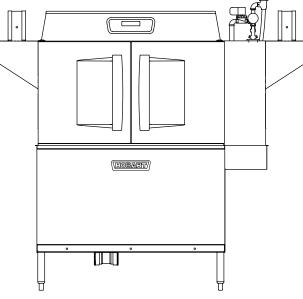
- Single point electrical connection, to include electric booster three phase only
- Higher than standard chamber

### ACCESSORIES

- Stainless steel vent hoods
- Canopy exhaust power vent kit
- Direct drive unloader
- Side loader
- Blower-dryer

Specifications, Details and Dimensions on Inside and Back.





Shown with optional vent hoods

F40481 - CL54eN-EGR Energy Recovery/CL54eN-ADV advansus Dishwasher

380/60/3

# CL54eN-EGR ENERGY RECOVERY/ CL54eN-ADV advansys DISHWASHER

### THE ENERGY RECOVERY/advansus WAREWASHER IS STANDARD WITH THESE EFFICIENT FEATURES ...

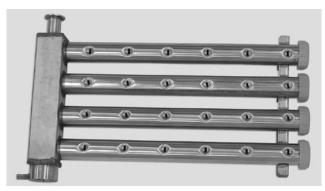
Inside and out the Energy Recovery/advansus warewashers by Hobart are packed with standard components and design innovations that make them the biggest value in the dishwasher industry.



The insulated hinged inspection doors provide easy access in the chamber. Exterior wash pipes and reduced interior baffles reduce clean-up time. The Rapid Return drive allows for a wide separation between the wash and the rinse zone.



**New, Improved Control Module.** The Hobart exclusive microprocessor control module offers a choice of many features, such as an exclusive Energy Saver Mode, NSF rated configurable Pot and Pan dwell mode, Low Temperature Alerts and Dirty Water Indicator. It also displays pertinent machine status and has a configurable "intelligent" delime notification. The controls have built-in Service Diagnostics and are NAFEM Data Protocol Compliant.



**Wash Manifolds.** Computational Fluid Dynamic designed wash manifolds are self-aligning and come with Hobart's signature debossed anti-clogging nozzles for superior result.



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**Drain Water Energy Recovery (DWeR)** is an enhanced energy savings solution that provides 20% energy savings over the CLe series. DWeR provides this benefit by using the heat from the exiting drain water to warm up the incoming cold water. This heats the cold water prior to filing the booster heater, thus requiring less energy from the booster to reach final rinse temp of 180° for that water. Additionally, by removing this heat from the exiting drain water, and by tempering (cooling) that water (if needed), we help ensure that our customers meet national plumbing codes which require that water be less than 110° as it is passes into external municipality water system.

Automatic Soil Removal (ASR) – standard on advansýs models only. ASR automatically redirects food soil left over after pre-scrapping to an external scrap basket at the load end of the machine. This helps to keep the wash water



cleaner, reducing the need for chemical detergents and frequency of water changes. This saves the customer money on chemicals and water/energy.



**Opti-RinSe<sup>™</sup>.** Hobart's exclusive Opti-RinSe<sup>™</sup> significantly reduces operating cost by reducing rinse water and the energy required to heat the water. The unique spray pattern uses large droplets to more efficiently sanitize the ware.



# CL54eN-EGR ENERGY RECOVERY/ CL54eN-ADV advansys DISHWASHER



**Built-in Pressureless Stainless Steel Booster Heater.** Interwired and interplumbed. Saves on installation and saves floor space. Simplifies operation with just one switch to power dishmachine and booster.

### AVAILABLE OPTIONS AND ACCESSORIES ....

Flexibility is synonymous with Hobart CLeN dishwashers. If your operation demands a dishwasher with a vent hood, an extended hood . . . a power scrapper, just specify the combination of options that suit your needs.



**Side Loader.** Save up to 20 square feet in the dishroom layout with an optional CL*e*N Side Loader. Racks are indexed 90° into the dishwasher automatically – a feature that cuts space and reduces labor dramatically. Your dishroom team will appreciate this feature.

### OTHER AVAILABLE ACCESSORIES . . .

Blower-dryer, direct drive unloader.

### **OTHER STANDARD FEATURES...**

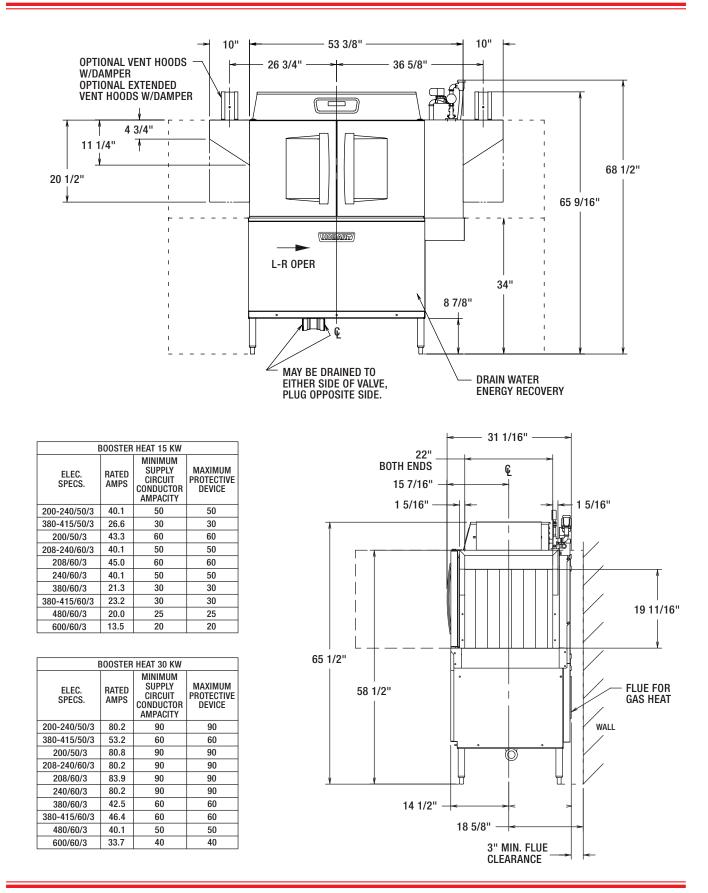
- **Thermal Layer Curtains** help keep the heat inside the machine.
- Ball Detent Clutch Conveyor Drive for maximum protection against conveyor jams
- Integrated Removable Pump Intake Screen to offer the ultimate guard of keeping debris from entering the pump.
- **Hinged Door Seals** and stainless steel labyrinth seal for drip-free operation
- **Door Actuated Drain Closure.** Closing the door automatically actuates drain closure, eliminates extra manual steps, ensures that closure is in the correct position.

	Energy Recovery/ advansýs
Machine Ratings (Mechanical)	
Racks per hour (193/4" x 193/4")	245
Conveyor Speed - feet per minute	6.8 max.
Dishes per Hour (Average 25 per rack)	6,100
Glasses per Hour (Average 45 per rack)	10,980
Floor Space – Table to Table (Inches)	54
Overall Dimensions – H x W x D (Inches)	79% x 67¾ x 30¼
Motor H.P.	2
Conveyor Drive H.P.	1/6
Number of Tanks	1
Tank Capacity – Gallons	23
Pump Capacity – Gallons per Minute - Weir Test	165
Heating Equipment – (For keeping power wash hot) Gas Burners (with Natural Gas)	78,000 BTU per hr.
Electric Heating Unit – Size Used	15 KW
Booster Heater / Final Rinse	30 KW
Rinse – Minutes operated during hour of maximum operation	60
Final Rinse Flow – Gals. per min. At 20 PSI Flow Pressure	2.1
Final Rinse Flow – Gals. per hr. – MAXIMUM At 15 PSI Flow Pressure	119
At 20 PSI Flow Pressure	138
Rinse 20 PSI Flow Pressure Gal./Rack	Hot Water Sanitizing .56 - 180°F
Steam Consumption – Pounds per hr MAXIMUM Approx. 30 lbs. per hr. = 1 boiler H.P. (BHP) Dishwasher, based on 20 PSI steam and on customer supplying final rinse water at 180°F maximum	65
Exhaust Requirements – Cubic Feet per minute	
Entrance End	200
Discharge End	400
Peak Rate of Drain Flow – Gallons per minute (Initial rate with full tank)	38
Shipping Weight Crated – Approximate lbs.	770

# CL54eN-EGR ENERGY RECOVERY DISHWASHER

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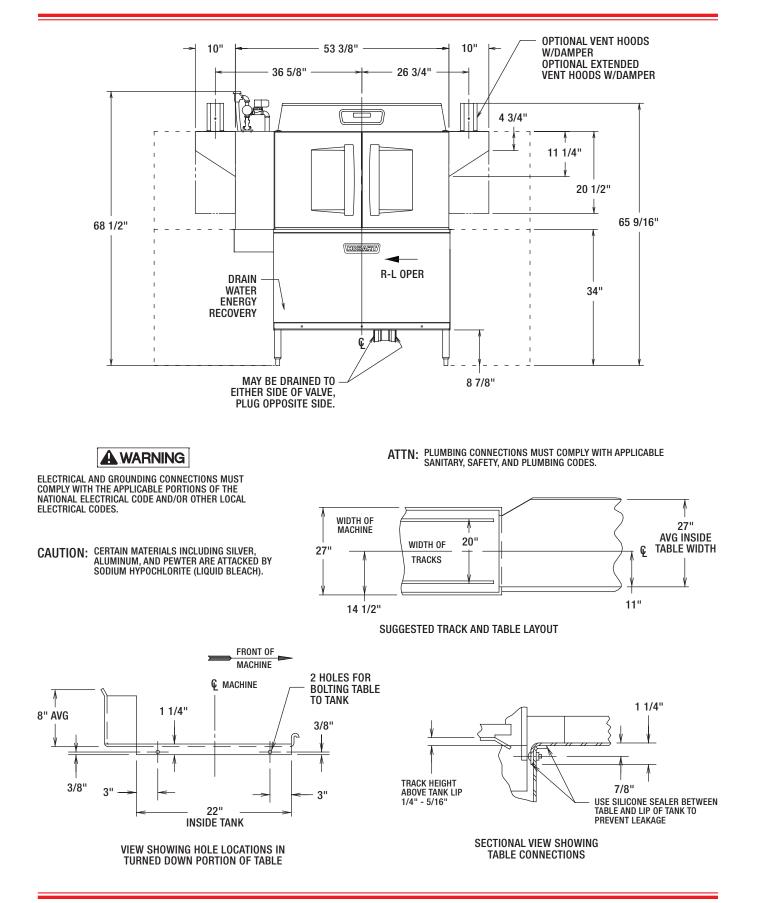
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# CL54eN-EGR ENERGY RECOVERY DISHWASHER

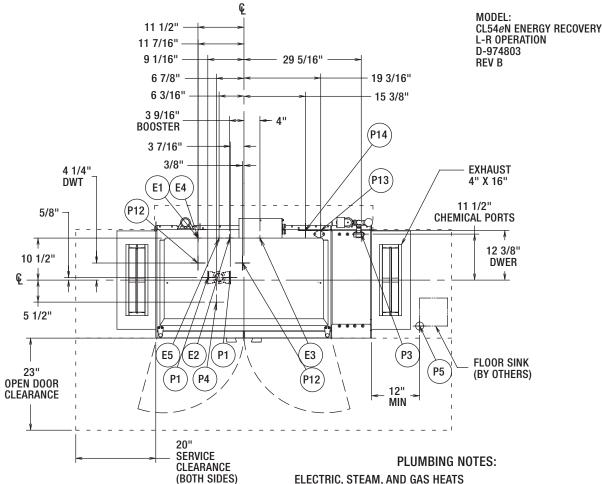
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# CL54eN-EGR ENERGY RECOVERY **DISHWASHER – ELECTRIC L-R**

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#### **MISCELLANEOUS NOTES:**

OPTIONAL VENT HOODS OR EXTENDED HOODS EXHAUST REQUIREMENTS: 200 CFM ENTRANCE END 400 CFM EXIT END.

ALL DIMENSIONS TAKEN FROM FLOOR LINE MAY BE INCREASED APPROXIMATELY 3/4" OR DECREASED 1/2". 53-7/8" INSIDE TANK (AT TABLE CONNECTION) 53-21/32" TABLE TO TABLE. NET WEIGHT OF MACHINE: 558 LBS (STD HEIGHT), DOMESTIC SHIPPING WEIGHT: 664 LBS (STD HEIGHT). CLeN LATENT AND SENSIBLE HEAT DISSIPATION INFORMATION ON F40459.

#### SINGLE POINT ELECTRICAL **CONNECTION (3 PH ONLY) MOTORS** AND ELECTRIC TANK HEAT

VOLTAGE	RATED AMPS	MINIMUM SUPPLY CIRCUIT CONDUCTOR AMPACITY	MAXIMUM PROTECTIVE DEVICE
208/60/3	55	70	70
240/60/3	52.6	70	70
480/60/3	27.9	40	40
200/50/3	53.9	70	70
380/60/3	30.1	40	40
380-415/50/3	31.8	40	40
600/60/3	20.3	25	25

# SEPARATE SERVICE CONNECTION FOR ELEC. HEAT

ELEC. HEAT 15 KW (WASH)			
VOLTAGE	RATED AMPS	MINIMUM SUPPLY CIRCUIT CONDUCTOR AMPACITY	MAXIMUM PROTECTIVE DEVICE
208/60/3	45	60	60
240/60/3	43	60	60
480/60/3	22	30	30
200/50/3	43	60	60
380/60/3	23	30	30
380-415/50/3	29	40	40
600/60/3	14.4	20	20
208/60/1	78	100	100
240/60/1	74.4	100	100

ELECTRIC, STEAM, AND GAS HEATS

WATER HAMMER ARRESTOR (MEETING ASSE-1010 STANDARD OR EQUIVALENT) TO BE SUPPLIED (BY OTHERS) IN COMMON WATER SUPPLY LINE AT SERVICE CONNECTION.

RECOMMENDED WATER HARDNESS TO BE 3 GRAINS OR LESS FOR BEST RESULTS. FOR NON-BOOSTER MACHINE (P6 CONN): RECOMMENDED BUILDING FLOWING WATER PRESSURE TO THE DISHWASHER IS 20 PSI, (15 PSI MIN - 25 PSI MAX). IF PRESSURES HIGHER THAN 25 PSI ARE PRESENT, A PRESSURE REGULATING VALVE WITH INTERNAL THERMAL EXPANSION BY-PASS MUST BE SUPPLIED (BY OTHERS) IN THE WATER LINE TO THE DISHWASHER.

FOR CONVENIENCE WHEN CLEANING, WATER TAP SHOULD BE INSTALLED NEAR MACHINE WITH HEAVY DUTY HOSE AND SQUEEZE VALVE. WHEN USED, CHEMICAL SANITIZING FEEDER MUST BE CERTIFIED TO

NSF STANDARD 29.

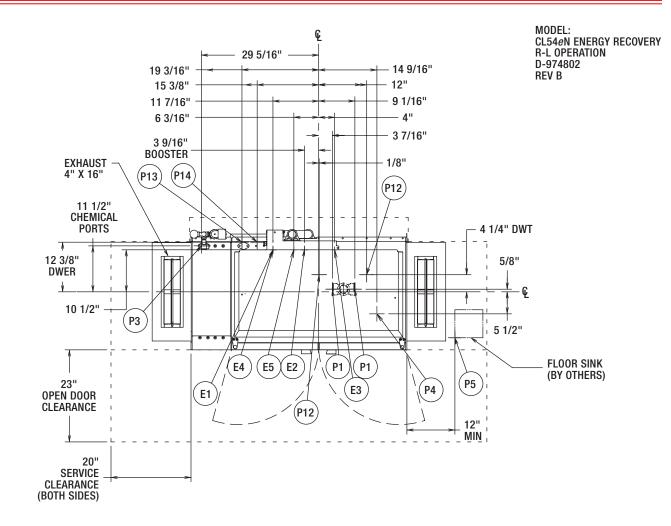
#### SEPARATE SERVICE CONNECTION FOR MOTORS ON ELEC. HEAT

MOTORS: 1/6 HP CONVEYOR 2 HP WASH			
VOLTAGE	RATED AMPS	MINIMUM SUPPLY CIRCUIT CONDUCTOR AMPACITY	MAXIMUM PROTECTIVE DEVICE
208/60/3	10	15	15
240/60/3	9.7	15	15
480/60/3	6.4	15	15
200/50/3	10.6	15	15
380/60/3	7.3	15	15
380-415/50/3	7	15	15
600/60/3	5.9	15	15
208/60/1	15.9	20	20
240/60/1	15.7	20	20



# CL54eN-EGR ENERGY RECOVERY DISHWASHER – ELECTRIC R-L

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### ELECTRICAL CONNECTIONS CONNECTION INFORMATION

(AFF = ABOVE FINISHED FLOOR)

#### LEGEND

#### ELECTRIC, STEAM, AND GAS HEATS

- E1 ELECTRIC CONNECTION: SINGLE POINT, ELEC, GAS, & STEAM, 1-1/4" CONDUIT HOLE OR 2" CONDUIT, 63-3/4" AFF
- E2 ELECTRIC CONNECTION: BOOSTER. 15KW/30KW, 1-1/4" CONDUIT HOLE OR 2" CONDUIT HOLE, 63-3/4" AFF
- E3 ELECTRIC CONNECTION: DETERGENT, SANITIZER (LOW TEMP ONLY) AND RINSE FEEDERS. 1/2" CONDUIT. 64-1/4" AFF

#### ELECTRIC HEAT ONLY

SINGLE PHASE OR FIELD CONFIGURED 3 PHASE SEPARATE ELECTRIC CONNECTION

- E4 ELECTRIC CONNECTION: MOTORS AND CONTROLS 1-1/4" CONDUIT. 63-3/4" AFF.
- E5 ELECTRIC HEAT: 15,000 WATTS, WASH TANK. 1" CONDUIT HOLE, 63-3/4" AFF.

### PLUMBING CONNECTIONS CONNECTION INFORMATION

### (AFF = ABOVE FINISHED FLOOR)

#### LEGEND

#### ELECTRIC, STEAM, AND GAS HEATS

- P1 DRAIN: 2" FPT, 7-3/8" AFF TWO POSSIBLE CONNECTIONS; MAY BE DRAINED TO EITHER SIDE OF VALVE, PLUG OPPOSITE SIDE.
- P3 RINSE FEEDER: REMOVE 1/8" NPT PIPE PLUG TO ACCESS TAPPED HOLE. 1/8" NPT 59-9/16" AFF.
- P4 DETERGENT PROBE SENSOR: REMOVE CAP AND STUD ASSEMBLY TO ACCESS 7/8" DIA HOLE (WASH TANK ONLY). 14-5/8" AFF.
- P5 INDIRECT DRAIN-FLOOR SINK: BY OTHERS, 0" AFF. WHEN REQUIRED, INSTALL FLOOR SINK OUTSIDE THE PERIMETER OF THE DISHWASHER.

#### DRAIN WATER TEMPERING

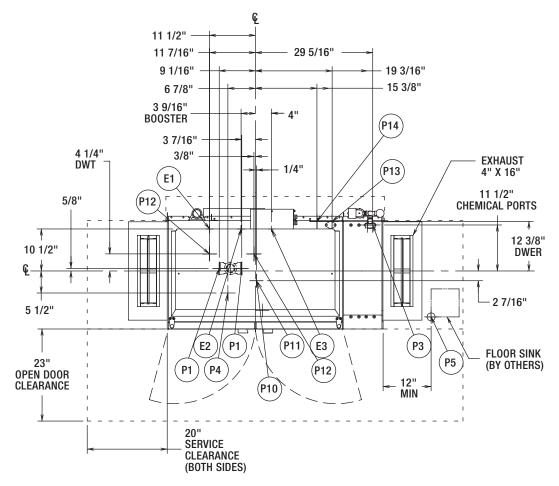
P12 COLD WATER CONNECTION: 1/2" FPT, COLD TEMP 80°F MAX 7-3/8" AFF.

- P13 HOT WATER CONNECTION: 1/2" FPT, 11-3/16" AFF. HIGH TEMP, W/30K B00STER 110°F MIN.
- P14 COLD WATER CONNECTION: 1/2" FPT, 11-3/16" AFF. COLD TEMP,  $55^\circ\mathrm{F}$  MIN.

# CL54eN-EGR ENERGY RECOVERY **DISHWASHER – GAS L-R**

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#### **MISCELLANEOUS NOTES:**

OPTIONAL VENT HOODS OR EXTENDED HOODS EXHAUST REQUIREMENTS: 200 CFM ENTRANCE END 400 CFM EXIT END.

ALL DIMENSIONS TAKEN FROM FLOOR LINE MAY BE INCREASED APPROXIMATELY 3/4" OR DECREASED 1/2". 53-7/8" INSIDE TANK (AT TABLE CONNECTION) 53-21/32" TABLE TO TABLE. NET WEIGHT OF MACHINE: 558 LBS (STD HEIGHT) DOMESTIC SHIPPING WEIGHT: 664 LBS (STD HEIGHT).

CLEN LATENT AND SENSIBLE HEAT DISSIPATION INFORMATION ON F40459.

#### SERVICE CONNECTION FOR MOTORS AND CONTROLS

MOTORS: 1/6 HP CONVEYOR 2 HP WASH				
VOLTAGE	RATED AMPS	MINIMUM SUPPLY CIRCUIT CONDUCTOR AMPACITY	MAXIMUM PROTECTIVE DEVICE	
208-240/60/3	10.7	15	15	
380/60/3	7.7	15	15	
480/60/3	6.7	15	15	
600/60/3	6.1	15	15	
208-240/60/1	16.9	20	20	

#### PLUMBING NOTES:

#### ELECTRIC, STEAM, AND GAS HEATS

WATER HAMMER ARRESTOR (MEETING ASSE-1010 STANDARD OR EQUIVALENT) TO BE SUPPLIED (BY OTHERS) IN COMMON WATER SUPPLY LINE AT SERVICE CONNECTION.

**RECOMMENDED WATER HARDNESS TO BE 3 GRAINS OR LESS** FOR BEST RESULTS.

FOR NON-BOOSTER MACHINE (P6 CONN): RECOMMENDED BUILDING FLOWING WATER PRESSURE TO THE DISHWASHER IS 20 PSI, (15 PSI MIN - 25 PSI MAX). IF PRESSURES HIGHER THAN 25 PSI ARE PRESENT, A PRESSURE REGULATING VALVE WITH INTERNAL THERMAL EXPANSION BY-PASS MUST BE SUPPLIED (BY OTHERS) IN THE WATER LINE TO THE DISHWASHER

FOR CONVENIENCE WHEN CLEANING, WATER TAP SHOULD BE INSTALLED NEAR MACHINE WITH HEAVY DUTY HOSE AND SQUEEZE VALVE

WHEN USED, CHEMICAL SANITIZING FEEDER MUST BE CERTIFIED TO NSF STANDARD 29.

#### GAS HEAT ONLY

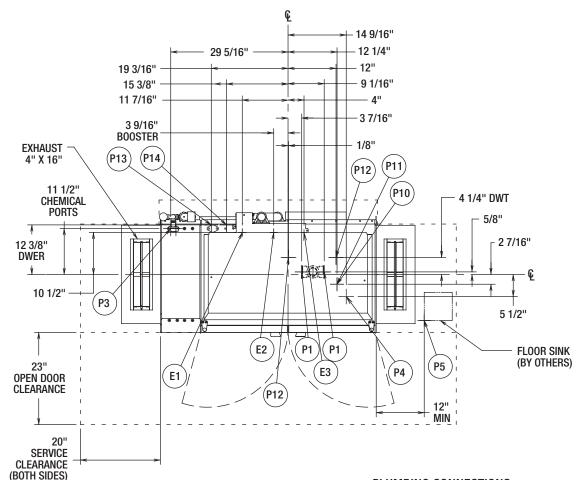
FOR NATURAL GAS, PRESSURE TO THE BURNER (CUSTOMER CONNECTION) SHOULD BE 3.5" MIN, 7" MAX W.C. FOR LP GAS, PRESSURE TO THE BURNER (CUSTOMER CONNECTION) SHOULD BE 8" MIN, 11" MAX. W.C.

IF GAS PRESSURE IS HIGHER THAN 7"(NAT) OR 11"(LP) W.C., A PRESSURE REGULATING VALVE MUST BE INSTALLED (BY OTHERS) IN THE GAS LINE TO THE DISHWASHER. GAS HEAT (NATURAL OR LP) BTU/HR INPUT - 78,000. GAS EXHAUST VENTING MUST BE INSTALLED ACCORDING TO LOCAL CODE. DO NOT CONNECT FLUE TO POWER VENT. SEE INSTALLATION MANUAL FOR GAS VENTING.



# CL54eN-EGR ENERGY RECOVERY DISHWASHER – GAS R-L

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#### ELECTRICAL CONNECTIONS CONNECTION INFORMATION (AFF = ABOVE FINISHED FLOOR)

#### LEGEND

#### ELECTRIC, STEAM, AND GAS HEATS

- E1 ELECTRIC CONNECTION: SINGLE POINT, ELEC, GAS, & STEAM, 1-1/4" CONDUIT HOLE OR 2" CONDUIT, 63-3/4" AFF
- E2 ELECTRIC CONNECTION: BOOSTER. 15KW/30KW, 1-1/4" CONDUIT HOLE OR 2" CONDUIT HOLE, 63-3/4" AFF
- E3 ELECTRIC CONNECTION: DETERGENT, SANITIZER (LOW TEMP ONLY) AND RINSE FEEDERS. 1/2" CONDUIT. 64-1/4" AFF

#### PLUMBING CONNECTIONS CONNECTION INFORMATION

### (AFF = ABOVE FINISHED FLOOR)

#### LEGEND

#### ELECTRIC, STEAM, AND GAS HEATS

- P1 DRAIN: 2" FPT, 7-3/8" AFF TWO POSSIBLE CONNECTIONS; MAY BE DRAINED TO EITHER SIDE OF VALVE, PLUG OPPOSITE SIDE.
- P3 RINSE FEEDER: REMOVE 1/8" NPT PIPE PLUG TO ACCESS TAPPED HOLE. 1/8" NPT 59-9/16" AFF.
- P4 DETERGENT PROBE SENSOR: REMOVE CAP AND STUD ASSEMBLY TO ACCESS 7/8" DIA HOLE (WASH TANK ONLY). 14-5/8" AFF.
- P5 INDIRECT DRAIN-FLOOR SINK: BY OTHERS, 0" AFF. WHEN REQUIRED, INSTALL FLOOR SINK OUTSIDE THE PERIMETER OF THE DISHWASHER.

#### GAS HEAT ONLY

- P10 GAS CONNECTION NAT., 1/2" FPT, 10-3/4" AFF; 3.5" MIN, 7" MAX W.C. INCOMING.
- P11 GAS CONNECTION L.P., 1/2" FPT, 10-3/4" AFF; 8" MIN, 11" MAX W.C. INCOMING.

#### DRAIN WATER TEMPERING

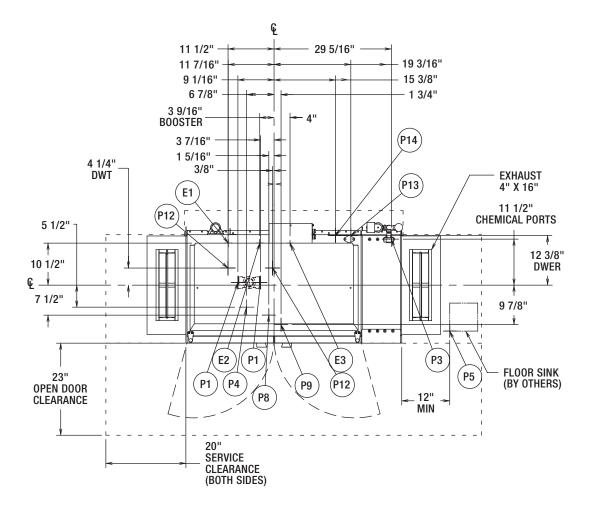
P12 COLD WATER CONNECTION: 1/2" FPT, COLD TEMP 80°F MAX 7-3/8" AFF.

- P13 HOT WATER CONNECTION: 1/2" FPT, 11-3/16" AFF. HIGH TEMP, W/30K BOOSTER 110°F MIN.
- P14 COLD WATER CONNECTION: 1/2" FPT, 11-3/16" AFF. COLD TEMP, 55°F MIN.

# CL54eN-EGR ENERGY RECOVERY **DISHWASHER – STEAM L-R**

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#### **MISCELLANEOUS NOTES:**

OPTIONAL VENT HOODS OR EXTENDED HOODS EXHAUST REQUIREMENTS: 200 CFM ENTRANCE END 400 CFM EXIT END.

ALL DIMENSIONS TAKEN FROM FLOOR LINE MAY BE INCREASED APPROXIMATELY 3/4" OR DECREASED 1/2". 53-7/8" INSIDE TANK (AT TABLE CONNECTION) 53-21/32" TABLE TO TABLE.

NET WEIGHT OF MACHINE: 558 LBS (STD HEIGHT), DOMESTIC SHIPPING WEIGHT: 664 LBS (STD HEIGHT). CLeN LATENT AND SENSIBLE HEAT DISSIPATION INFORMATION ON F40459.

#### SERVICE CONNECTION FOR MOTORS AND CONTROLS

MOTORS: 1/6 HP CONVEYOR 2 HP WASH				
VOLTAGE	RATED AMPS	MINIMUM SUPPLY CIRCUIT CONDUCTOR AMPACITY	MAXIMUM Protective Device	
200-240/50/3	10.6	15	15	
208-240/60/3	10.7	15	15	
380-415/50/3	7.0	15	15	
380/60/3	7.7	15	15	
480/60/3	6.7	15	15	
600/60/3	6.1	15	15	
208-240/60/1	16.9	20	20	

#### PLUMBING NOTES:

#### ELECTRIC, STEAM, AND GAS HEATS

WATER HAMMER ARRESTOR (MEETING ASSE-1010 STANDARD OR EQUIVALENT) TO BE SUPPLIED (BY OTHERS) IN COMMON WATER SUPPLY LINE AT SERVICE CONNECTION.

**RECOMMENDED WATER HARDNESS TO BE 3 GRAINS OR LESS** FOR BEST RESULTS.

FOR NON-BOOSTER MACHINE (P6 CONN): RECOMMENDED BUILDING FLOWING WATER PRESSURE TO THE DISHWASHER IS 20 PSI, (15 PSI MIN - 25 PSI MAX). IF PRESSURES HIGHER THAN 25 PSI ARE PRESENT, A PRESSURE REGULATING VALVE WITH INTERNAL THERMAL EXPANSION BY-PASS MUST BE SUPPLIED (BY OTHERS) IN THE WATER LINE TO THE DISHWASHER.

FOR CONVENIENCE WHEN CLEANING, WATER TAP SHOULD BE INSTALLED NEAR MACHINE WITH HEAVY DUTY HOSE AND SQUEEZE VALVE.

WHEN USED, CHEMICAL SANITIZING FEEDER MUST BE CERTIFIED TO NSF STANDARD 29.

#### STEAM HEAT ONLY

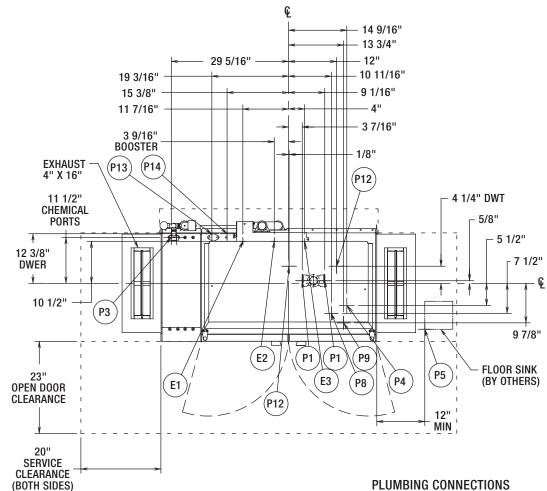
FLOWING STEAM PRESSURES ABOVE 50 PSI MUST HAVE A PRESSURE REGULATOR (BY OTHERS) INSTALLED IN THE STEAM LINE.

SHUT OFF VALVE MUST BE SUPPLIED (BY OTHERS) IN THE STEAM LINE TO THE DISHWASHER.



# CL54eN-EGR ENERGY RECOVERY DISHWASHER – STEAM R-L

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### ELECTRICAL CONNECTIONS CONNECTION INFORMATION (AFF = ABOVE FINISHED FLOOR)

#### LEGEND

#### ELECTRIC, STEAM, AND GAS HEATS

- E1 ELECTRIC CONNECTION: SINGLE POINT, ELEC, GAS, & STEAM, 1-1/4" CONDUIT HOLE OR 2" CONDUIT, 63-3/4" AFF
- E2 ELECTRIC CONNECTION: BOOSTER. 15KW/30KW, 1-1/4" CONDUIT HOLE OR 2" CONDUIT HOLE, 63-3/4" AFF
- E3 ELECTRIC CONNECTION: DETERGENT, SANITIZER (LOW TEMP ONLY) AND RINSE FEEDERS. 1/2" CONDUIT. 64-1/4" AFF

### PLUMBING CONNECTIONS CONNECTION INFORMATION (AFF = ABOVE FINISHED FLOOR)

#### LEGEND

#### ELECTRIC, STEAM, AND GAS HEATS

- P1 DRAIN: 2" FPT, 7-3/8" AFF TWO POSSIBLE CONNECTIONS; MAY BE DRAINED TO EITHER SIDE OF VALVE, PLUG OPPOSITE SIDE.
- P3 RINSE FEEDER: REMOVE 1/8" NPT PIPE PLUG TO ACCESS TAPPED HOLE. 1/8" NPT 59-9/16" AFF.
- P4 DETERGENT PROBE SENSOR: REMOVE CAP AND STUD ASSEMBLY TO ACCESS 7/8" DIA HOLE (WASH TANK ONLY). 14-5/8" AFF.
- P5 INDIRECT DRAIN-FLOOR SINK: BY OTHERS, 0"AFF. WHEN REQUIRED, INSTALL FLOOR SINK OUTSIDE THE PERIMETER OF THE DISHWASHER.

#### STEAM HEAT ONLY

- P8 STEAM COILS: 10 TO 50 PSI FLOWING, 3/4" FPT, 11-1/8" AFF.
- P9 CONDENSATE RETURN: A 10 PSI MINIMUM DIFFERENTIAL PRESSURE ACROSS THE STEAM TRAP MUST BE MAINTAINED. 3/4" FPT. 11-1/8" AFF ONE CONNECTION. (ONE BUCKET TYPE TRAP FURNISHED).

#### DRAIN WATER TEMPERING

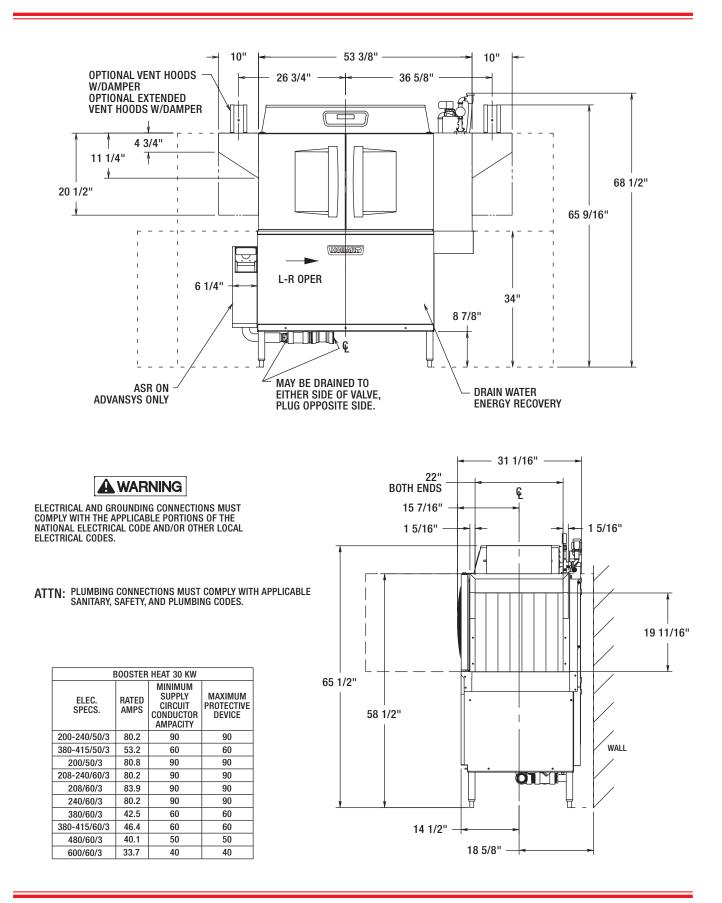
P12 COLD WATER CONNECTION: 1/2" FPT, COLD TEMP 80°F MAX 7-3/8" AFF.

- P13 HOT WATER CONNECTION: 1/2" FPT, 11-3/16" AFF. HIGH TEMP, W/30K B00STER 110°F MIN.
- P14 COLD WATER CONNECTION: 1/2" FPT, 11-3/16" AFF. COLD TEMP, 55°F MIN.

# CL54eN-ADV advansýs DISHWASHER

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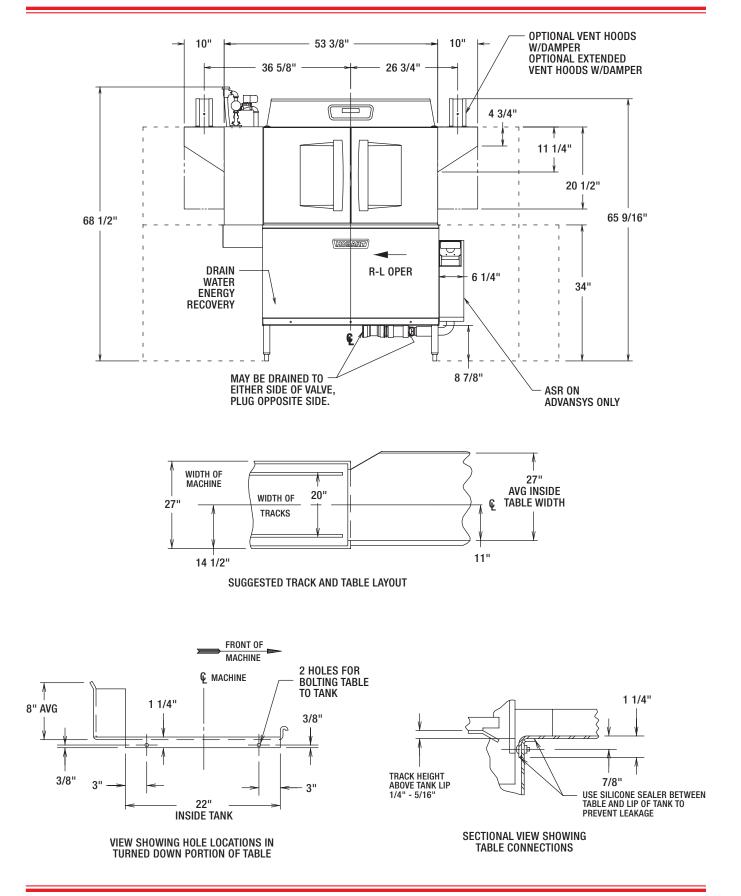
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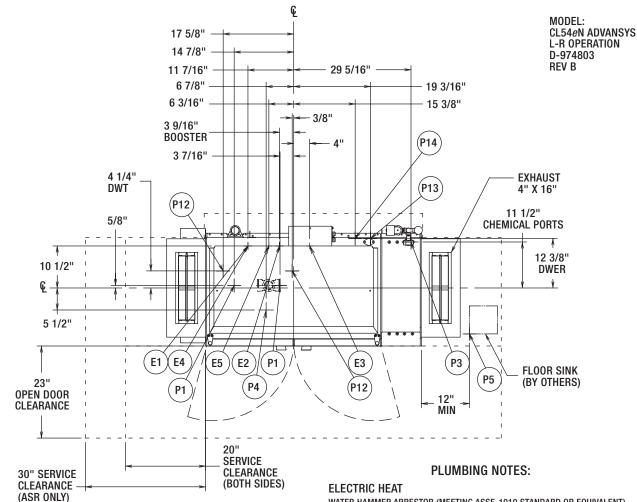
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# CL54eN-ADV advansys **DISHWASHER – ELECTRIC L-R**

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#### **MISCELLANEOUS NOTES:**

OPTIONAL VENT HOODS OR EXTENDED HOODS EXHAUST REQUIREMENTS: 200 CFM ENTRANCE END 400 CFM EXIT END. ALL DIMENSIONS TAKEN FROM FLOOR LINE MAY BE INCREASED APPROXIMATELY 3/4" OR DECREASED 1/2". 53-7/8" INSIDE TANK (AT TABLE CONNECTION) 53-21/32" TABLE TO TABLE.

**CLEN LATENT AND SENSIBLE HEAT DISSIPATION INFORMATION ON F40459.** 

SINGLE POINT ELECTRICAL
CONNECTION (3 PH ONLY) MOTORS
AND ELECTRIC TANK HEAT

VOLTAGE	RATED AMPS	MINIMUM SUPPLY CIRCUIT CONDUCTOR AMPACITY	MAXIMUM PROTECTIVE DEVICE
208/60/3	55	70	70
240/60/3	52.6	70	70
480/60/3	27.9	40	40
200/50/3	53.9	70	70
380/60/3	30.1	40	40
380-415/50/3	31.8	40	40
600/60/3	20.3	25	25

NET WEIGHT OF MACHINE: 558 LBS (STD HEIGHT), DOMESTIC SHIPPING WEIGHT: 664 LBS (STD HEIGHT).

SEPARATE SERVICE CONNECTION FOR ELEC. HEAT

ELEC. HEAT 15 KW (WASH)				
VOLTAGE	RATED AMPS	MINIMUM SUPPLY CIRCUIT CONDUCTOR AMPACITY	MAXIMUM PROTECTIVE DEVICE	
208/60/3	45	60	60	
240/60/3	43	60	60	
480/60/3	22	30	30	
200/50/3	43	60	60	
380/60/3	23	30	30	
380-415/50/3	29	40	40	
600/60/3	14.4	20	20	
208/60/1	78	100	100	
240/60/1	74.4	100	100	

WATER HAMMER ARRESTOR (MEETING ASSE-1010 STANDARD OR EQUIVALENT) TO BE SUPPLIED (BY OTHERS) IN COMMON WATER SUPPLY LINE AT SERVICE CONNECTION.

RECOMMENDED WATER HARDNESS TO BE 3 GRAINS OR LESS FOR BEST RESULTS. FOR NON-BOOSTER MACHINE (P6 CONN): RECOMMENDED BUILDING FLOWING WATER PRESSURE TO THE DISHWASHER IS 20 PSI,(15 PSI MIN - 25 PSI MAX). IF PRESSURES HIGHER THAN 25 PSI ARE PRESENT, A PRESSURE REGULATING VALVE WITH INTERNAL THERMAL EXPANSION BY-PASS MUST BE SUPPLIED (BY OTHERS) IN THE WATER LINE TO THE DISHWASHER.

FOR CONVENIENCE WHEN CLEANING, WATER TAP SHOULD BE INSTALLED NEAR MACHINE WITH HEAVY DUTY HOSE AND SQUEEZE VALVE.

WHEN USED, CHEMICAL SANITIZING FEEDER MUST BE CERTIFIED TO NSF STANDARD 29.

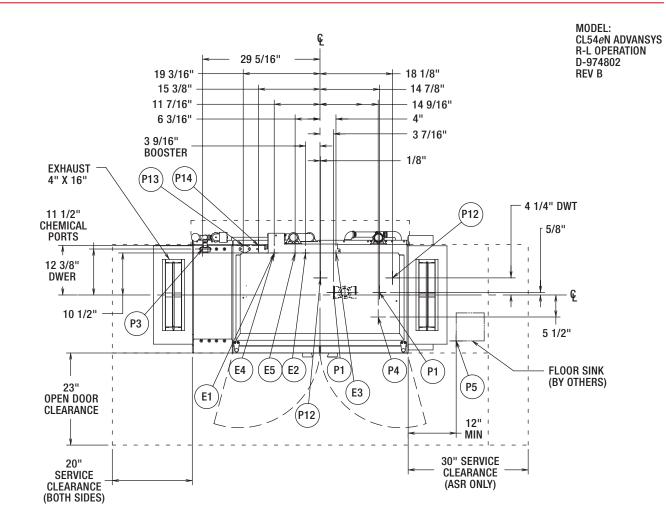
#### SEPARATE SERVICE CONNECTION FOR MOTORS ON ELEC. HEAT

МОТ	MOTORS: 1/6 HP CONVEYOR 2 HP WASH			
VOLTAGE	RATED AMPS	MINIMUM SUPPLY CIRCUIT CONDUCTOR AMPACITY	MAXIMUM PROTECTIVE DEVICE	
208/60/3	10	15	15	
240/60/3	9.7	15	15	
480/60/3	6.4	15	15	
200/50/3	10.6	15	15	
380/60/3	7.3	15	15	
380-415/50/3	7	15	15	
600/60/3	5.9	15	15	
208/60/1	15.9	20	20	
240/60/1	15.7	20	20	



# CL54eN-ADV advansys DISHWASHER – ELECTRIC R-L

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#### ELECTRICAL CONNECTIONS CONNECTION INFORMATION (AFF = ABOVE FINISHED FLOOR)

#### LEGEND

### ELECTRIC, STEAM, AND GAS HEATS

- E1 ELECTRIC CONNECTION: SINGLE POINT, ELEC, GAS, & STEAM, 1-1/4" CONDUIT HOLE OR 2" CONDUIT,
- 63-3/4" AFF E2 ELECTRIC CONNECTION: BOOSTER. 15KW/30KW, 1-1/4" CONDUIT HOLE OR 2" CONDUIT HOLE, 63-3/4" AFF
- E3 ELECTRIC CONNECTION: DETERGENT, SANITIZER (LOW TEMP ONLY) AND RINSE FEEDERS. 1/2" CONDUIT. 64-1/4" AFF

#### ELECTRIC HEAT ONLY

#### SINGLE PHASE OR FIELD CONFIGURED 3 PHASE SEPARATE ELECTRIC CONNECTION

- E4 ELECTRIC CONNECTION: MOTORS AND CONTROLS
- 1-1/4" CONDUIT. 63-3/4" AFF. E5 ELECTRIC HEAT: 15.000 WATTS.
- E5 ELECTRIC HEAT: 15,000 WATTS, WASH TANK. 1" CONDUIT HOLE, 63-3/4" AFF.

#### PLUMBING CONNECTIONS CONNECTION INFORMATION (AFF = ABOVE FINISHED FLOOR)

#### LEGEND

#### ELECTRIC, STEAM, AND GAS HEATS

- P1 DRAIN: 2" FPT, 7-3/8" AFF TWO POSSIBLE CONNECTIONS;
  - MAY BE DRAINED TO EITHER SIDE OF VALVE, PLUG OPPOSITE SIDE.
- P3 RINSE FEEDER: REMOVE 1/8" NPT PIPE PLUG TO ACCESS TAPPED HOLE. 1/8" NPT 59-9/16" AFF.
- P4 DETERGENT PROBE SENSOR: REMOVE CAP AND STUD ASSEMBLY TO ACCESS 7/8" DIA HOLE (WASH TANK ONLY). 14-5/8" AFF.
- P5 INDIRECT DRAIN-FLOOR SINK: BY OTHERS, 0" AFF. WHEN REQUIRED, INSTALL FLOOR SINK OUTSIDE THE PERIMETER OF THE DISHWASHER.

#### DRAIN WATER TEMPERING

P12 COLD WATER CONNECTION: 1/2" FPT, COLD TEMP 80°F MAX 7-3/8" AFF.

- P13 HOT WATER CONNECTION: 1/2" FPT, 11-3/16" AFF. HIGH TEMP, W/30K BOOSTER 110°F MIN.
- P14 COLD WATER CONNECTION: 1/2" FPT, 11-3/16" AFF. COLD TEMP,  $55^\circ\text{F}$  MIN.

# CL54eN-EGR ENERGY RECOVERY/ CL54eN-ADV advansis DISHWASHER

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**SPECIFICATIONS:** Meets requirements of A.S.S.E. Standard No. 1004.

**DESIGN:** Semi automatic, high temperature single-tank, racktype dishwasher with flexible thermal layer curtains at the ends of chamber and between wash and final rinse zones. Insulated hinged inspection doors located in front of machine provide easy access to wash arms, rinse arms, strainer, strainer basket, and pump intake screen. Length of machine inside tank (at table connection) 54". Machine designed to clean and sanitize with hot water 160°F wash and 180°F (minimum) final rinse. Water hardness recommended to be 3 gr. or less for best results. Automatic interlocks shut off pump and conveyor if door is opened when machine is in operation.

**CONSTRUCTION:** Tank, chamber, frame, legs, control box, doors, and all panels are constructed of stainless steel.

**PUMP:** The 165 gpm recirculating stainless steel pump and impeller with a ceramic seat seal. Easily accessible pump assembly permits quick inspection. The pump is self-draining. All piping distributing water to the upper and lower wash arms is stainless steel tubing.

**PUMP MOTOR:** Built for Hobart 2 hp grease-packed ball bearings, splash proof, ventilated with manual, resettable inherent overload protection. Available in electrical specifications of 208-240/60/3, 480/60/3 and 600/60/3. Also available, but not submitted for UL listing are 200-240/50/3 and 380-415/50/3.

**CONTROLS:** A stainless steel control module with power and "start/stop" buttons is mounted on top of the machine. Machine control circuitry will be operated from a 120-volt control circuit transformer. Electrical components are completely wired with 105°C, 600V thermoplastic insulated wire with stranded conductors routed through UL listed electrical conduit or covered wire way.

**CONVEYOR:** Rapid Return drive, designed for more even throughput of racks and allows for a 16-inch separation between the wash and the rinse zone. Racks conveyed automatically through wash and rinse zones. Ball Detent Clutch drive prevents damage to machine or racks, should movement of racks be obstructed. Conveyor speed: 6.8 FPM.

**DRIVE MOTOR:** Built for Hobart, <sup>1</sup>/<sub>6</sub> horsepower gear motor, ventilated with manual, resettable inherent overload protection. Available in electrical specifications of 208-240/60/3, 480/60/3 and 600/60/3. Also available, but not submitted for UL Listing are 200-240/50/3 and 380-415/50/3.

**POWER WASH:** Wash tank is equipped with upper and lower stainless steel CFD Wash Arms which effectively direct water jets to all ware surfaces. Both upper and lower wash arms are self-aligning and have easily removable end caps for cleaning without use of tools. A removable perforated stainless steel strainer pan supports a deep perforated stainless steel basket.

**FINAL RINSE:** Final rinse flow rate: 2.1 gpm, .56 gpr, 138-gph. Stainless steel upper and lower Auto Position Rinse Arms<sup>™</sup> have single rows of nozzles. Racks entering the rinse zone automatically trigger rinse. Final rinse water line is equipped with a vacuum breaker downstream of an electrically operated

solenoid valve in common piping system. Rinse agent dispenser injection ports provided in final rinse piping above chamber.

**FILL:** Fill water line is equipped with vacuum breaker on downstream side of electrically operated solenoid valve in common piping system, for automatic maintenance of tank level.

**DRAIN AND OVERFLOW:** Large bell-type automatic overflow and drain valve controlled from inside of machine. Drain automatically seats by closing inspection doors. Drain housing can be plumbed from load or unload end of machine.

**STANDARD EQUIPMENT: Energy Recovery,** Digital display of wash and final rinse temperature. Positive low water protection for tank heat. Thermal Layered Curtains throughout machine are keyed to ensure proper placement. Drain is automatically closed when inspection doors are closed. Stainless steel adjustable feet. Bolted stainless steel enclosure panels around perimeter and underneath machine. Automatic tank fill. Door interlock. Auto-timer. Vent fan and booster heater controls. Low temperature alerts. Service diagnostics. Dirty water indicator. Configurable "intelligent" delime notification. NSF rated configurable Pot and Pan dwell mode. Energy Saver Mode. NAFEM Data Protocol compliant. Pressure regulating valve. Booster heater (30 kw).

#### WASH TANK HEATING SELECTIONS (must choose one):

**ELECTRIC:** One electric Incoloy<sup>®</sup> sheathed immersion heater (15 KW) removable from inside tank. Tank water temperature is controlled by microprocessor controlled thermostat with positive low-water protection and magnetic contactor. (Disconnect switches not furnished.) A high limit device mounted on the surface of the tank additionally protects heating element.

**STEAM:** One-inch stainless steel steam coil. Tank water temperature controlled by microprocessor controlled thermostat with positive low-water protection. Steam supplied to machine through high temperature steam solenoid valve and line strainer.

**GAS:** Regulated infrared immersion tube gas burner system. Microprocessor controlled thermostat and a blower with a pressure switch control tank water temperature. Positive low water protection is provided. A high limit device mounted on the surface of the tube additionally protects immersion tube. A solid-state igniter board controls the gas valve and provides flame ignition. A transformer steps the control circuit voltage down from 120 volts to 24 volts to power the igniter board and gas valve. For natural gas, gas pressure to burner (customer connection) not to exceed 7" W.C. For LP gas, gas pressure to burner (customer connection) not to exceed 11" W.C. If gas pressure is higher than 7" W.C. natural or 11" W.C. LP pressure regulating valve must be supplied (by others) in the gas line to the dishwasher.

#### **OPTIONAL EQUIPMENT AT EXTRA COST:**

Stainless steel vent hoods with vent stack, and locking-type damper. Canopy exhaust power vent kit. Higher than standard chamber. Side loaders and unloaders. 19¾" x 19¾" peg, combination and miscellaneous racks. Table limit switch. Drain water-tempering kit.

As continued product improvement is a policy of Hobart, specifications are subject to change without notice.