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STERO ER-76S CONVEYOR SERIES



ER-76S



STERO'S Dual-Tank **ER-76S EcoRinse Series** Rack Conveyors are high capacity, low water consuming, high temperature final rinse conveyors. The EcoRinse system incorporates recirculated high pressure primary rinse followed by secondary line pressure fresh water final rinse for low water consumption and high heat retention. The EcoRinse machine produces 232 racks per hour using only 118 gallons per hour of final rinse water, or only 1/2 a gallon of water per rack.

ER-76S Rack Conveyor Series: Combines a powerful scrapper with our 44" wash section, creating an enormous washing pattern of 76". This time, labor and detergent saving warewasher is perfect for today's sculleries.

The scrapper tank does the work of a manual pre-rinsing operation—but does it faster and better with 185 GPM of re-circulated water, stripping food soil from above and below the ware. Efficient scrapping prior to washing adds up to detergent savings.

Food soil removed is transferred to the outboard scrap catchment automatically by the rinse water feed-back system. This keeps the scrapper tank water clean and removes food soil from the scrapping tank.

The full rack width washing pattern with our 300 GPM pump powers this dishwashing workhorse.

Rinsing and sanitizing is controlled by STERO's exclusive rack activated final rinse which guarantees accurate, trouble free cleaning.

STANDARD FEATURES

Design: Two tank 20" Rack Conveyor, 76" in length with a power scrapper, power wash and a sanitizing final rinse. A scrap catchment mounted outside of the tank and adjacent to the soiled ware entrance contains a large scrap basket that is easily removed even while the machine is in operation. Flexible strip curtains at each end separate the scrapping, washing and final rinse. Two large inspection doors allow easy access to interior of machine. All components are easily accessible for cleaning and maintenance.

Construction: Tank and hood are formed from 304/18 – 8 No. 4 mill finish stainless steel, fully welded with a minimum of bolt together construction. Frame is heavy-duty stainless steel flat stock construction conforming to NSF Standard No. 3. The machine is supported by enclosed stainless steel feet. All internal piping, fittings, risers and manifolds are stainless steel.

Power Scrapper: The STERO engineered scrapping pattern utilizes fixed upper and lower stainless manifolds of special design, fitted with large stricture free jets which effectively strip the food soil from all types of ware, inside and out, as it passes through the spray pattern. The food soil drops onto flat perforated stainless steel screens that cover the tank. The screens are held in an inclined position, which, coupled with the pump action and the final rinse waters feed back, automatically moves the food soil to a scrap catchment, which is mounted outside the tank. A specially designed pump with a 1 HP motor distributes 185 gallons of water over the ware every minute. The pump is integral with the motor, has a stainless steel impeller, packless seal, and

RACK
CONVEYOR

ER-76S CONVEYOR SERIES: MULTIPLE TANK RACK
CONVEYOR SCRAPPER-WASHER, HIGH TEMP 20" RACK

STANDARD EQUIPMENT FEATURES	BENEFIT
Full perimeter frame	Long machine life
Auto fill	Proper water fill level at start up and during ongoing operation
Auto start	First rack starts machine operation push button activation not required
Center fed manifolds	Even distribution of wash water for uniform and consistent results
Outboard scrap catchment	Complete removal of food soil from machine reduction of chemical usage
OPTIONAL EQUIPMENT FEATURES	BENEFIT
Mounted circuit breakers	Individual circuit protection for motors and tank heat
Table limit switch	Easy operation of machine with a single worker
Cold water aquastat	Regulated scrap tank water temperature to avoid food soil adhesion

STANDARD FEATURES *Continued*

ceramic sealing seat and an extended stainless steel motor shaft, which assures perfect alignment and quiet operation. The screens, manifolds and curtains are easily removed through the door without the use of tools. The larger sized scrap section on the ER-76S allows for better separation of scrap and wash functions for lower chemical consumption and better results.

Power Wash: STERO's unique stainless steel manifolds are center-fed, fitted with stricture free jets with directional vanes and can be easily removed without tools. Center-fed manifolds distribute an even flow of wash water over the entire perimeter of the rack, ensuring consistent results. The ER-76S distributes 300 GPM of detergent water pumped over the ware by a 2 HP motor and pump assembly.

Both motors have extended stainless steel shafts with packless ceramic seals and stainless steel impellers that align perfectly with the pump housing.

The pumps have easily removable inspection plates—front and end—and are self draining. Stainless steel perforated strainer pans cover the tank.

Automatic Fill: Fills the machine at the push of a button and keeps it full during operation. In the event of low water in the tank, the system will automatically re-fill to the proper level.

Automatic Start: Rack activated switch starts conveyor and pumps eliminating the need for a manual start.

Automatic Shut Down: Shuts down machine operation during idle periods.

Stainless Steel Front Enclosure Panel: Protects motors and controls from moisture.

Kit 55: STERO mounts a ¾" pressure reducing valve, shock-arrestor and flow pressure gauge in the final rinse line prior to the rinse solenoid valve.

The shock-arrestor prevents line hammer and will double the life of the valve. The PRV will allow adjustment of the final rinse pressure and the gauge will give visual proof when it is correct.

Common Drain: STERO connects overflow and drain valves so that one drain rough-in will service the entire machine.

Motors: 2 HP, 1750 rpm, 300 GPM, heavy duty with sealed bearings and overload protection.

Final Rinse: Stainless rinse arms mounted above and below are fitted with directional fanjets, which create a full coverage spray pattern for maximum rinsing and sanitation. The rack activates STERO's final rinse switch and hot water solenoid valve with stainless seat. A vacuum breaker mounted downstream from the solenoid and 6" above the upper rinse complete STERO's rinse system.

Thermometers: One each for scrapper, wash and final rinse.

Conveyor: A center-drive stainless steel pawl bar with stainless steel pawls conveys the racks through the spray pattern and out onto the clean dish table. The conveyor is powered by an integral ¼ HP motor and speed reducing drive which has a built-in release to prevent damage to racks or machine in the event of a rack jam. The racks ride on 12 gauge stainless steel tracks.

Standard Electrical Features: All motors on STERO conveyor machines are factory wired in waterproof conduit and fittings to a common connection point. The motors are protected by thermal-overloads with manual reset buttons. The magnetic motor starters, start-stop switches, and electric tank heating element contactors (when specified) are mounted in a stainless steel control box for one point connection.

Standard Electrical Specifications: 208/240-60-1, 208/240-60-3, 460/480-60-3.

Door Safety Switch: Prevents the machine from operating if the door is open. The machine will automatically shut off if the door is opened while the warewasher is running.

Drain Valves: STERO designed poppet type drain valve; stainless steel seats and casting assures leak proof and trouble free life. Externally controlled with spring-loaded shafts to prevent damage...the finest in the industry.

REQUIRED TANK HEATING

NSF requires that the water in all power wash and power rinse tanks be maintained at specified temperatures. STERO offers three types of heating equipment to maintain these temperatures. Please specify the one that suits your job conditions.

POWER WASH TANK ONLY

Electric: Two 5 kW stainless steel elements (10 kW total) are mounted in the bottom of the tank. The units are thermostatically controlled and have STERO's low water protection system. The elements, thermostat, LWP and contactor are all inter-wired to the control panel.

Steam Injectors: Two stainless steel injectors with silencers are mounted in the tank. A thermostat controls a special solenoid valve, and maintains the correct temperature.

Steam Coils: STERO designed and built stainless steel steam coils are mounted in the tank. Steam coils allow condensed steam to be returned to the steam generator, a decided advantage when there is a question of steam purity. A thermostat controls a special steam solenoid valve and maintains the correct temperature. A steam trap is mounted on the steam return line.

AVAILABLE OPTIONS

Vent Cows: 10" wide × 25" deep with extended Splash Guards front and rear. 3 7/8" × 24 7/8" I.D. vent opening centered on the 10" length.

Mounted Circuit Breakers: Protection for motors and heating circuit.

Cold Water Aquastat: Tempers scrap tank water to avoid adhesion of food proteins to ware.

Sideloader: RAC-27 allows loading of the racks at a right angle to the conveyor, permitting dedicated clean and soiled sides of the room, increased length RAC-32 will accept sheet pans.

Table Limit Switch: Mounted on a clean dish table. The switch shuts off the conveyor when engaged by a rack. This allows single person operation of machine until racks fill unload table.

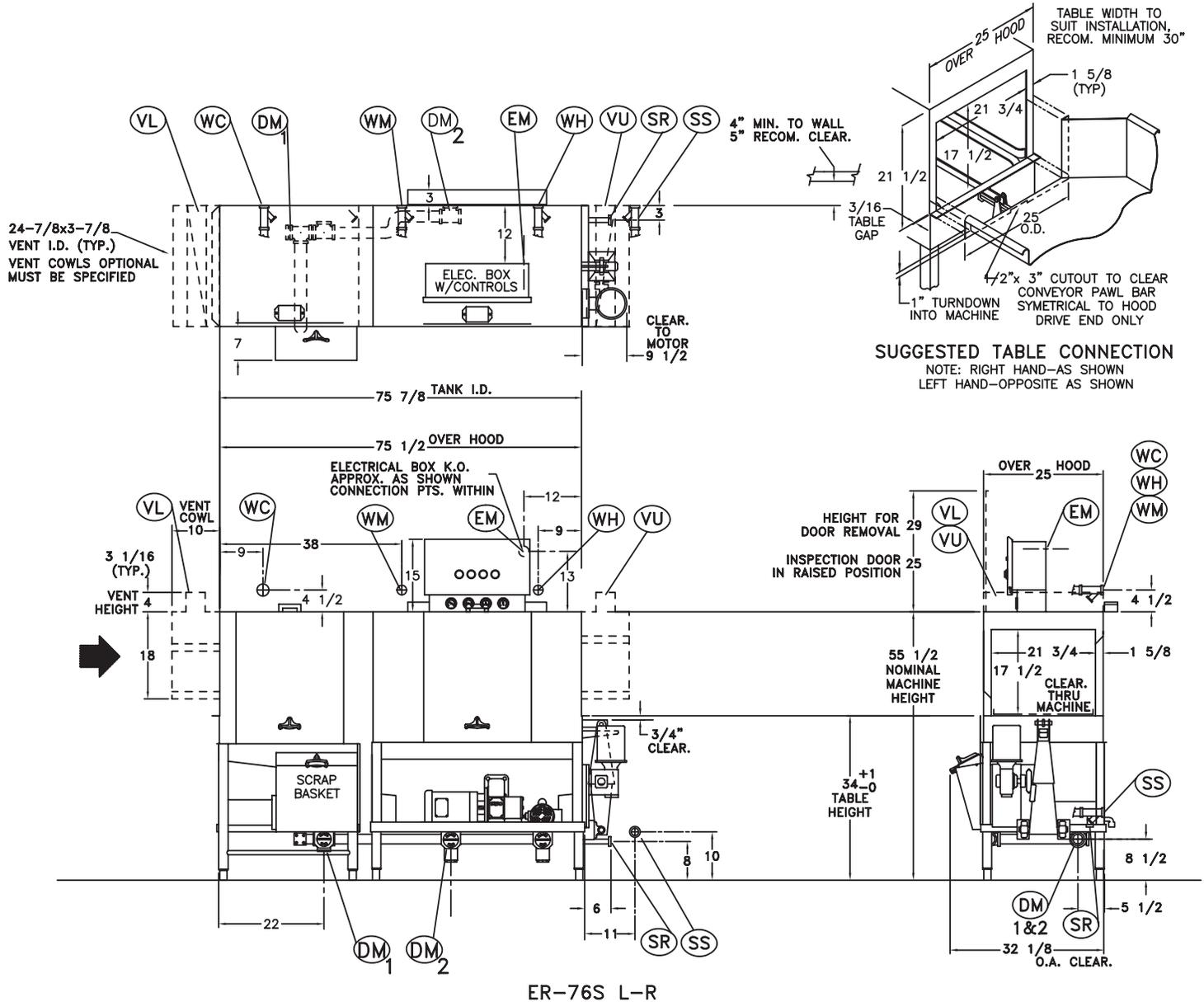
ELECTRIC TANK HEAT

CONNECTION POINTS		
DM	2" NPT (F)	DRAIN, MACHINE WASTE:
WC	3/4" NPT (F)	WATER SUPPLY: COLD AS AVAILABLE
WM	3/4" NPT (F)	WATER SUPPLY: 140° MIN. TANK FILL
WH	3/4" NPT (F)	WATER SUPPLY: 180°F. MIN. @ 20 PSI FLOW PRES. CONSUMPTION = 118 GALS./HR.
EM	ELECTRICAL REQ.	ONE (1) FEEDER SIZED FOR: 1. SCRAPER PUMP MOTOR --- 1HP 2. WASH PUMP MOTOR --- 2HP 3. AUX. RINSE PUMP MOTOR --- 1/3HP 4. CONVEYOR MOTOR --- 1/4HP 5. WASH TANK HEAT --- 10 KW 5. AUX. RINSE HEAT --- 5 KW TOTAL LOAD @ 208V-3PH = 54.2 AMPS TOTAL LOAD @ 480V-3PH = 25 AMPS
VL	NOTED	VENT, LOAD END: RECOM. MIN. DRAW = 200 CFM
VU	NOTED	VENT, UNLOAD END: RECOM. MIN. DRAW = 400 CFM

NOTE: WC APPLIES ONLY IF COLD WATER AQUASTAT SPECIFIED

STEAM TANK HEAT

CONNECTION POINTS		
DM	2" NPT (F)	DRAIN, MACHINE WASTE:
WC	3/4" NPT (F)	WATER SUPPLY: COLD AS AVAILABLE
WM	3/4" NPT (F)	WATER SUPPLY: 140° MIN. TANK FILL
WH	3/4" NPT (F)	WATER SUPPLY: 180°F. MIN. @ 20 PSI FLOW PRES. CONSUMPTION = 118 GALS./HR.
SS	3/4" NPT (F)	STEAM SUPPLY: 15-40 PSI CONSUMPTION @ 20 PSI TANK HEAT: 100 LBS./HR.
SR	1/2" NPT (F)	STEAM RETURN:
EM	ELECTRICAL REQ.	ONE (1) FEEDER SIZED FOR: 1. SCRAPER PUMP MOTOR --- 1HP 2. WASH PUMP MOTOR --- 2HP 3. AUX. RINSE PUMP MOTOR --- 1/3HP 4. CONVEYOR MOTOR --- 1/4HP TOTAL LOAD @ 208V-3PH = 12.5 AMPS TOTAL LOAD @ 480V-3PH = 6.9 AMPS
VL	NOTED	VENT, LOAD END: RECOM. MIN. DRAW = 200 CFM
VU	NOTED	VENT, UNLOAD END: RECOM. MIN. DRAW = 400 CFM



ER-76S L-R



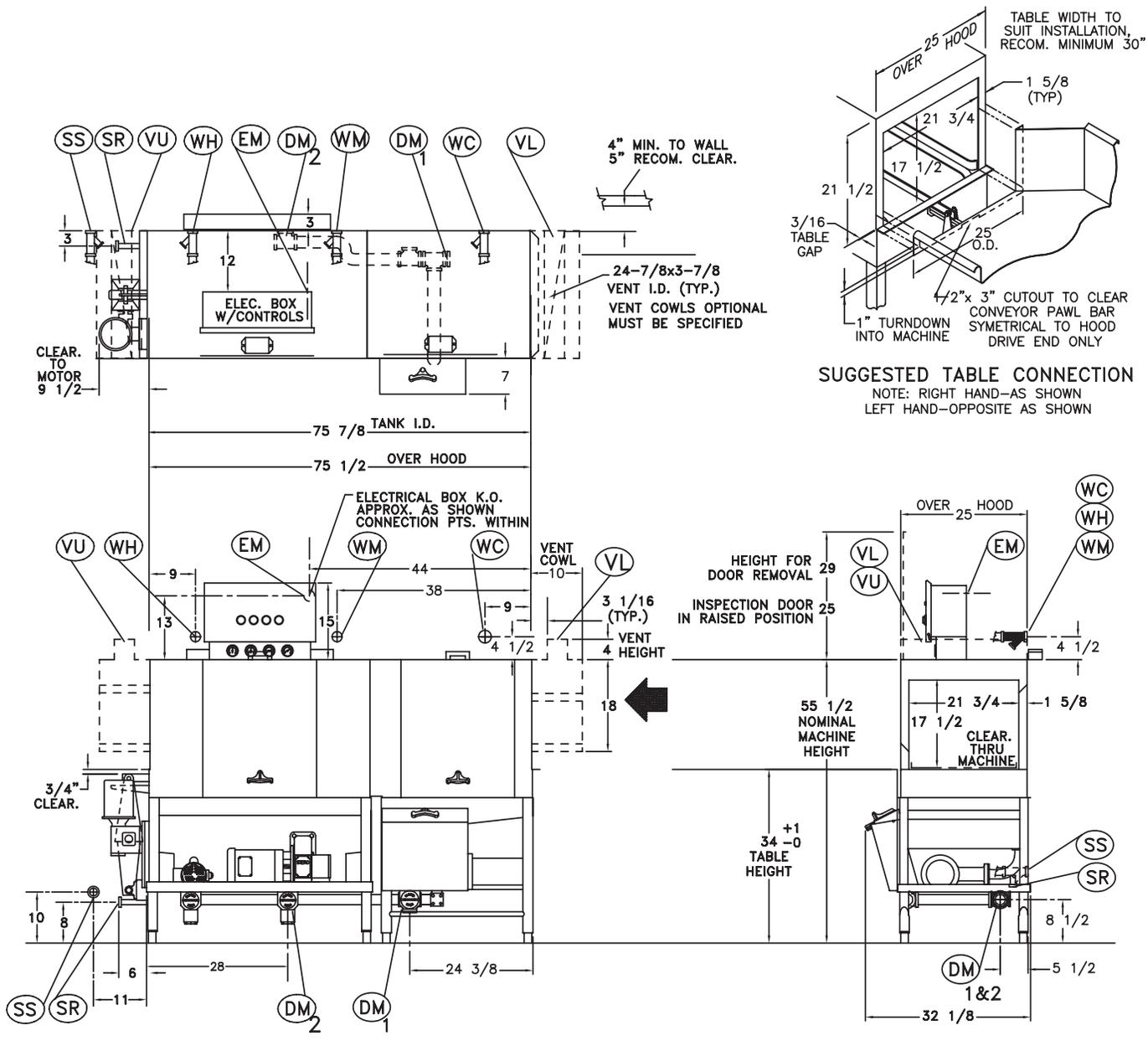
STERO, a division of Illinois Tool Works Inc. 3200 Lakeville Highway Petaluma, CA 94954
 Phone: 800-762-7600 Fax: 707-762-5036 WWW.STERO.COM Printed in the USA



ELECTRIC TANK HEAT CONNECTION POINTS		
DM	2" NPT (F)	DRAIN, MACHINE WASTE:
WC	3/4" NPT (F)	WATER SUPPLY: COLD AS AVAILABLE
WM	3/4" NPT (F)	WATER SUPPLY: 140° MIN. TANK FILL
WH	3/4" NPT (F)	WATER SUPPLY: 180°F. MIN. @ 20 PSI FLOW PRES. CONSUMPTION = 118 GALS./HR.
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VL	NOTED	VENT, LOAD END: RECOM. MIN. DRAW = 200 CFM
VU	NOTED	VENT, UNLOAD END: RECOM. MIN. DRAW = 400 CFM

STEAM TANK HEAT CONNECTION POINTS		
DM	2" NPT (F)	DRAIN, MACHINE WASTE:
WC	3/4" NPT (F)	WATER SUPPLY: COLD AS AVAILABLE
WM	3/4" NPT (F)	WATER SUPPLY: 140° MIN. TANK FILL
WH	3/4" NPT (F)	WATER SUPPLY: 180°F. MIN. @ 20 PSI FLOW PRES. CONSUMPTION = 118 GALS./HR.
SS	3/4" NPT (F)	STEAM SUPPLY: 15-40 PSI CONSUMPTION @ 20 PSI TANK HEAT: 100 LBS./HR.
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VL	NOTED	VENT, LOAD END: RECOM. MIN. DRAW = 200 CFM
VU	NOTED	VENT, UNLOAD END: RECOM. MIN. DRAW = 400 CFM

NOTE: WC APPLIES ONLY IF COLD WATER AQUASTAT SPECIFIED



ER-76S R-L



STERO, a division of Illinois Tool Works Inc. 3200 Lakeville Highway Petaluma, CA 94954
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