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# STERO SC MODULAR CONVEYOR SERIES



Provides flexibility and maximum warewashing power in a minimum amount of space.

**STERO SC Modular Conveyor Series:** Provides flexibility and maximum warewashing power in a minimum amount of space. The SC Series is the only warewashing system that can be designed around a problem dishroom. With modular sections, each power scrapper, wash, rinse, high temperature or chemical sanitizing final rinse section may be designed in either a straight through or 90° section. These may be assembled with other sections to complete a problem solving warewashing system of your choice.

**SC Series:** The only true corner dishwashing system, eliminating the need for side-loaders, power loaders and un-loaders and rack advancers. It transforms these non-washing transition pieces into actual washing areas. Both soiled and clean dish table space can be gained because STERO's large volume conveyor utilizes previously unused space.

## STANDARD FEATURES

**Design:** Single tank, 20" rack, automatic conveyor modules used in tandem with one another. Each power scrapper, power wash and power rinse unit may be fashioned in a 90° or straight through design. Each high temperature final rinse is contained in a 12" straight through section and is to be added to the last power wash or rinse section. All machines are NSF approved and conform to UL 921.

**Construction:** The tank and hood are formed from 16 gauge, type 304/18-8 No. 4 mill finish stainless steel, all fully welded with a minimum of bolt together construction. The frame of each unit is constructed of stainless steel and flat stock conforming to NSF standard No. 3. The machine is supported by stainless steel feet. All internal construction is stainless steel.

**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.

MODULAR RACK  
CONVEYOR

SC SERIES: LOW TEMPERATURE CONVEYOR WASHER 20" RACK

## STANDARD FEATURES *Continued*

**Motors:** 2 HP, 1750 rpm, 225 GPM, heavy duty with sealed bearings and overload protection.

**Final Rinse:** Stainless rinse arms mounted above and below are fitted with directional fanjets that 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 steel seat. A vacuum breaker mounted downstream from the solenoid and 6" above the upper rinse complete STERO's rinse system. The CSA units sanitize with chlorine dispensed by STERO's peristaltic pump, which eliminates the need for a 180° final rinse booster.

**Thermometers:** Conveniently mounted, one each for the scrapper, wash, rinse 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. Curved pawl bar and track guides the rack through a 90° turn, indexing the rack over the spray manifold.

**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.

**Standard Electrical Specifications Available:** 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.

**Bell-Type Stainless Steel Skimmer:** With hinged cover. Acts as overflow and facilitates removal of fats and oils from the wash tank.

**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 four types of heating equipment to maintain these temperatures. Please specify the one that suits your job conditions.

### The Tank Heating options are:

**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 interwired to the control panel.

**Gas:** STERO has developed another first for the industry. A gas fired, infrared tank heating system that will heat the water to the correct temperature and maintain it during operations. Burners, constructed of woven ceramic fiber, are thermostatically controlled and feature a manual off-on valve. STERO's positive low water protection system safeguards the unit in the event of a low water condition.

**Steam Injectors:** Two stainless steel injectors with silencers are mounted in the tank. A thermostat controls a 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 steam solenoid valve and maintains the correct temperature. A steam trap is mounted on the steam return line.

## AVAILABLE OPTIONS

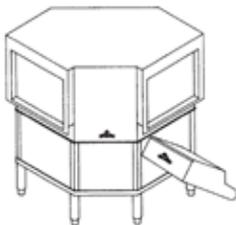
**Vent Cowls:** 10" wide x 25" deep with extended Splash Guards front and rear. 3 7/8" x 24 7/8" I.D. vent opening centered on the 10" length.

**Mounted Circuit Breakers:** Protection for motors and heating circuit.

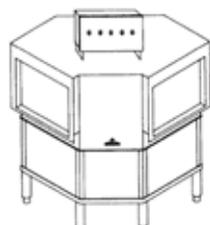
**Cold Water Aquastat:** Tempers scrap tank water to avoid adhesion of food proteins to ware.

**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.

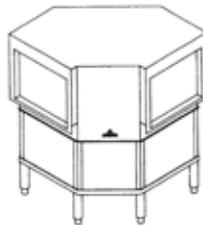
## STERO's High And Low Temperature Rack Conveyor Modules



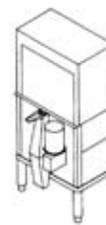
**SC-1:** 90° Power Scrapping Unit.



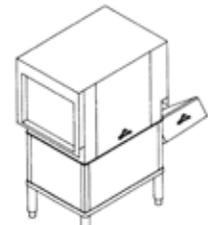
**SC-2:** 90° Power Wash Unit.



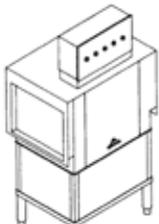
**SC-3:** 90° Curved Power Rinse Unit.



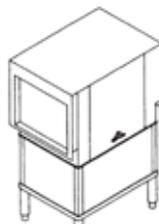
**SC-4:** 12'' Straight high-temperature final rinse.



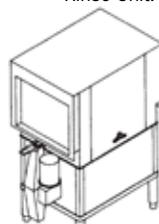
**SC-5:** Straight through power scrapper.



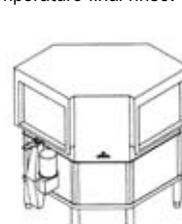
**SC-6:** Straight through power wash unit.



**SC-7:** Straight through power rinse unit.



**SC-8:** 90° Straight through chemical sanitizing unit.

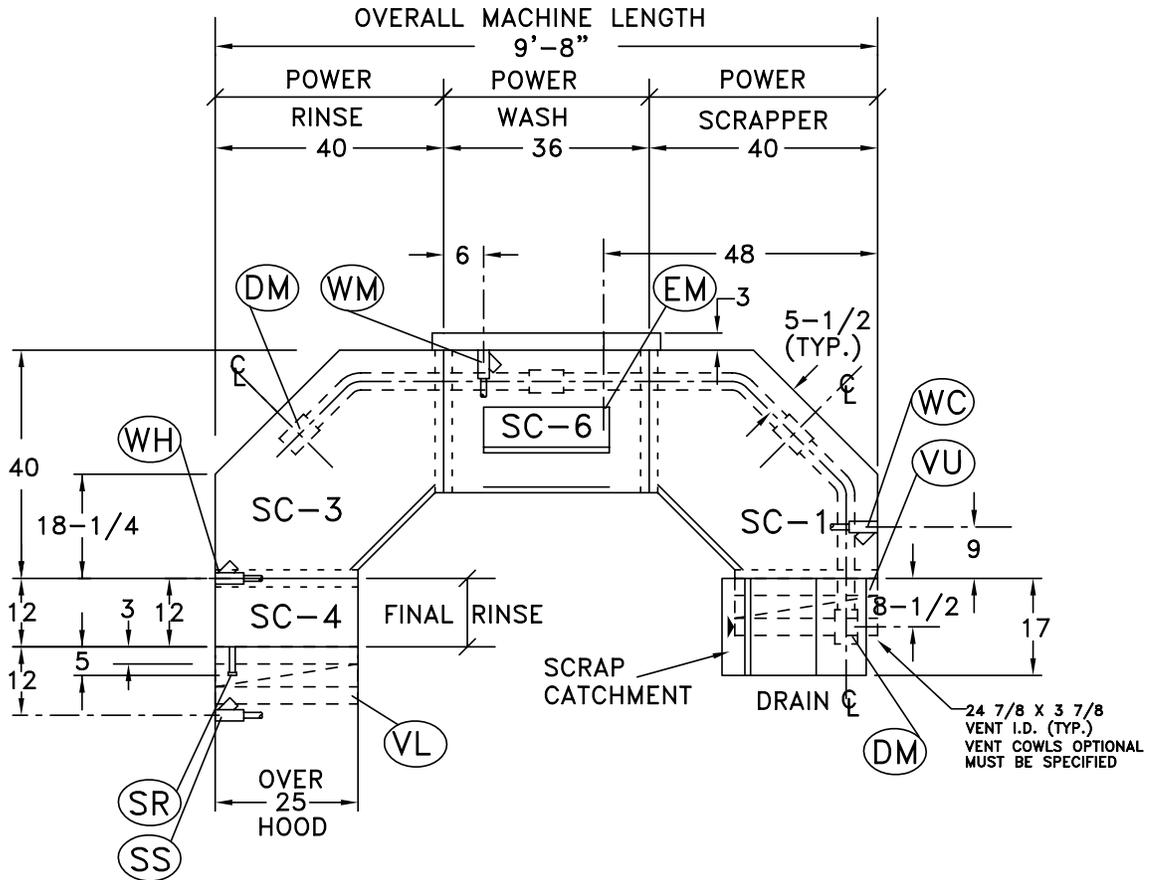


**SC-9:** 90° Chemical sanitizing final rinse with pre-rinse.

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## TYPICAL DIMENSIONS & CONNECTION POINTS EXAMPLE - SC-1-6-3-4



**MODULAR RACK  
CONVEYOR**

### STEAM TANK HEAT

DM	2" NPT (F)	MACHINE WASTE, CONNECT EITHER END, 8" A.F.F.
WC	3/4" NPT (F)	COLD WATER SUPPLY, - 59" A.F.F.
WM	3/4" NPT (F)	140° F. WATER SUPPLY, - 59" A.F.F.
WH	3/4" NPT (F)	180° F. WATER SUPPLY @ 20 PSI FLOW PRESS. CONSUMPTION = 252 GALS/HR. - 59" A.F.F.
EM	ELECTRICAL REQ.	ONE (1) FEEDER REQ'D: - 68" A.F.F. 2 HP SCRAPER PUMP MOTOR 2 HP WASH PUMP MOTOR 2 HP RINSE PUMP MOTOR 1/4 HP CONVEYOR MOTOR TOTAL LOAD @ 208V/3PH/60 = 20.6 AMPS TOTAL LOAD @ 480V/3PH/60 = 10.8 AMPS
SS	1" NPT (F)	STEAM SUPPLY, 15-40 PSI, CONSUMPTION @ 20 PSI TANK HEAT = 150 LBS/HR. - 10" A.F.F.
SR	3/4" NPT (F)	STEAM RETURN - 8" A.F.F.
VL	NOTED	VENT, LOAD END: RECOM. MIN. DRAW = 200 CFM
VU	NOTED	VENT, UNLOAD END: RECOM. MIN. DRAW = 400 CFM

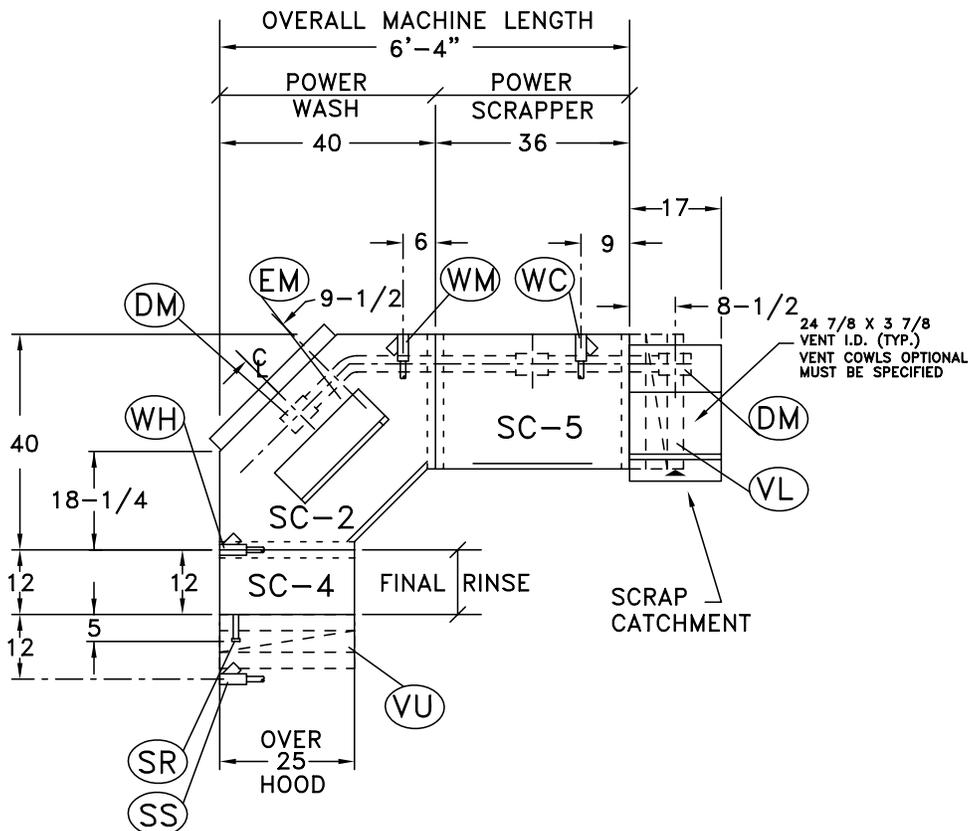
### ELECTRIC TANK HEAT

DM	2" NPT (F)	MACHINE WASTE, CONNECT EITHER END, 8" A.F.F.
WC	3/4" NPT (F)	COLD WATER SUPPLY, - 59" A.F.F.
WM	3/4" NPT (F)	140° F. WATER SUPPLY, - 59" A.F.F.
WH	3/4" NPT (F)	180° F. WATER SUPPLY @ 20 PSI FLOW PRESS. CONSUMPTION = 252 GALS/HR. - 59" UP.
EM	ELECTRICAL REQ.	THREE (3) FEEDERS REQ'D: - 68" A.F.F. 1) 2 HP SCRAPER PUMP MOTOR 2 HP WASH PUMP MOTOR 2 HP RINSE PUMP MOTOR 1/4 HP CONVEYOR MOTOR TOTAL LOAD @ 208V/3PH/60 = 20.6 AMPS TOTAL LOAD @ 480V/3PH/60 = 10.8 AMPS 2) 10 KW WASH TANK HEAT TOTAL LOAD @ 208V/3PH/60 = 27.8 AMPS TOTAL LOAD @ 480V/3PH/60 = 12.0 AMPS 3) 10 KW RINSE TANK HEAT TOTAL LOAD @ 208V/3PH/60 = 27.8 AMPS TOTAL LOAD @ 480V/3PH/60 = 12.0 AMPS
VL	NOTED	VENT, LOAD END: RECOM. MIN. DRAW = 200 CFM
VU	NOTED	VENT, UNLOAD END: RECOM. MIN. DRAW = 400 CFM

- NOTES: 1. WC NECESSARY ONLY WHEN COLD WATER AQUASTAT SPECIFIED  
2. SINGLE POINT ELECTRICAL CONNECTION AVAILABLE WHEN MOUNTED CIRCUIT BREAKERS SPECIFIED  
3. NOMINAL MACHINE HEIGHT IS 55-1/2" A.F.F.



## TYPICAL DIMENSIONS & CONNECTION POINTS EXAMPLE - SC-5-2-4



### STEAM TANK HEAT

DM	2" NPT (F)	MACHINE WASTE,CONNECT EITHER END 8" A.F.F.
WC	3/4" NPT (F)	COLD WATER SUPPLY , - 59" A.F.F.
WM	3/4" NPT (F)	140° F. WATER SUPPLY, - 59" A.F.F.
WH	3/4" NPT (F)	180° F WATER SUPPLY @ 20 PSI FLOW PRESS. CONSUMPTION = 315 GAL./HR.- 59" A.F.F
EM	ELECTRICAL REQ.	ONE (1) FEEDER REQ'D: - 68" A.F.F. 2 HP SCRAPPER PUMP MOTOR 2 HP WASH PUMP MOTOR 1/4 HP CONVEYOR MOTOR  TOTAL LOAD @ 208V/3PH/60 = 14.1 AMPS TOTAL LOAD @ 480V/3PH/60 = 7.7 AMPS
SS	3/4" NPT (F)	STEAM SUPPLY,15-40 PSI,CONSUMPTION @ 20 PSI TANK HEAT = 75 LBS/HR. - 10" A.F.F
SR	1/2" NPT (F)	STEAM RETURN - 8" A.F.F
VL	NOTED	VENT, LOAD END: RECOM. MIN. DRAW = 200 CFM
VU	NOTED	VENT, UNLOAD END:RECOM. MIN. DRAW = 400 CFM

### ELECTRIC TANK HEAT

DM	2" NPT (F)	MACHINE WASTE,CONNECT EITHER END 8" A.F.F.
WC	3/4" NPT (F)	COLD WATER SUPPLY , - 59" A.F.F.
WM	3/4" NPT (F)	140° F. WATER SUPPLY, - 59" A.F.F.
WH	3/4" NPT (F)	180° F. WATER SUPPLY @ 20 PSI FLOW PRESS. CONSUMPTION = 315 GAL./HR.- 59" A.F.F
EM	ELECTRICAL REQ.	TWO (2) FEEDERS REQ'D: - 68" A.F.F. 1) 2 HP SCRAPPER PUMP MOTOR 2 HP WASH PUMP MOTOR 1/4 HP CONVEYOR MOTOR  TOTAL LOAD @ 208V/3PH/60 = 14.1 AMPS TOTAL LOAD @ 480V/3PH/60 = 7.7 AMPS  2) 10 KW WASH TANK HEAT  TOTAL LOAD @ 208V/3PH/60 = 27.8 AMPS TOTAL LOAD @ 480V/3PH/60 = 12.0 AMPS
VL	NOTED	VENT, LOAD END: RECOM. MIN. DRAW = 200 CFM
VU	NOTED	VENT, UNLOAD END:RECOM. MIN. DRAW = 400 CFM

- NOTES: 1. WC APPLIES ONLY WHEN COLD WATER AQUASTAT SPECIFIED  
2. SINGLE POINT ELECTRICAL CONNECTION AVAILABLE WHEN MOUNTED CIRCUIT BREAKERS SPECIFIED  
3. NOMINAL MACHINE HEIGHT IS 55-1/2" A.F.F.

