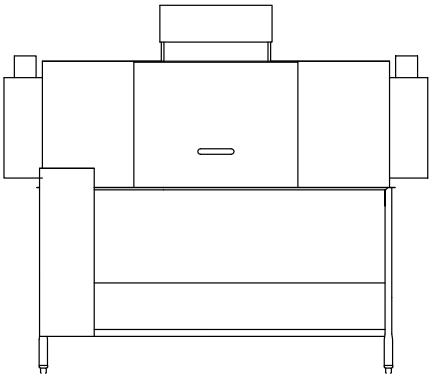
Insinger

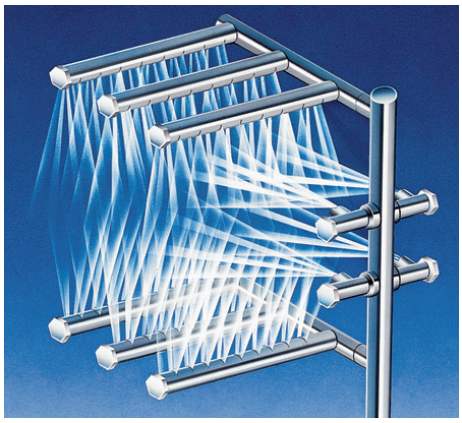
Project _____ CSI - 11400 _____
Item _____ Approval _____
Quantity _____ Date _____

SPEEDER 64

Double Tank Rack Conveyor Dishwasher



- Automatic conveyor, rack type, double tank dishwasher with recirculating wash and rinse and fresh water final rinse.
- 0.52 gallons/rack final rinse consumption
- Capacity is 277- 20" x 20" racks per hour or 6,925 dishes per hour
- CrossFire® Wash System provides superior cleaning
- Error proof replacement with color-coded curtains



The patent-pending **CrossFire® Wash System** power sprays water horizontally, as well as, from above and below, cleaning and sanitizing the dirtiest of ware.

STANDARD FEATURES

- Patented CrossFire® Wash System
- Tank heat: 22.5 kW electric immersion heaters or steam injectors
- Capillary thermometers for wash and rinse
- In-line thermometer for final rinse
- Vacuum breaker on all incoming water lines
- Manifold clean-out brush
- SureFire® Start-Up & Check-Out Service
- Inspection door
- Ventilation fan connection provision
- S/S frame, legs and feet
- S/S front enclosure panel
- Automatic tank fill
- Low water protection
- Detergent connection provision
- Elevated top mounted NEMA 12 control panel
- Easily-cleaned crowned hood top
- Simplified scrap screen design
- Wide insulated swing-out doors
- Door safety switch
- Standard frame drip proof motors
- Energy saver
- Override switch for deliming
- End caps/pipe plugs secured to prevent loss
- Color-coded curtains
- Timing belt conveyor drive

OPTIONS

- ☐ Stainless steel steam coil tank heat
- ☐ Steam booster
- ☐ Electric booster
- ☐ Infrared tank heat (90,000 BTU, natural gas or propane
- ☐ Single point electrical connection: motors, controls and tank heat. (Booster requires a separate connection)
- ☐ End cowls with vent and adjustable damper controls
- ☐ S/S splash guards
- ☐ Security package
- ☐ Totally enclosed motors
- ☐ Rack limit switch
- ☐ Power Loader
- ☐ Power Unloader
- ☐ Door activated drain closers
- ☐ Insulated hood and door
- ☐ Plastic 20" x 20" racks (plate or silver)

Speeder 64

AUTOQUOTES

SPEEDER 64
Double Tank Rack Conveyor Dishwasher

Capacity Per Hour	277 racks 6925 dishes 300-600 meals
Tank Capacity	12 gals. (wash) 13 gals. (rinse) 25.5 gals. (gas wash) 26 gals. (gas rinse)
Motor Size	1 hp (wash) 1 hp (rinse) 1/15 hp (conveyor)
Electric Usage	7.5 kW wash tank 15 kW rinse tank 15 kW booster 40° rise 27 kW booster 70° rise
Gas Consumption	90,000 BTUH 88 CFH nat. gas 36 CFH propane
Steam Consumption at 20 psi min.	81 lbs./hour tank 51 lbs./hour booster 40° rise 90 lbs./hour booster 70° rise
Final Rinse Peak Flow at 20 psi min.	2.4 gallons/minute
Final Rinse Consumption at 20 psi min.	144 gallons/hour 0.52 gallons/rack
Exhaust Hood Requirement	350 CFM Load 350 CFM unload
Peak Rate Drain Flow	14 gallons/minute
Installation distance from vertical combustible service	2"
Shipping Weight	800 lbs.

Machine Electrical			
Motors, Controls, Tank Heat	Steam	Gas	Electric
240/1/60	9.7	20.2	112.8
208/3/60	10.7	11.9	73.1
240/3/60	9.8	10.9	63.9
480/3/60	4.9	5.4	31.9
380/3/50	5.9	6.6	40.0

Note: Due to product improvement we reserve the right to change information and specifications without notice.

SPECIFICATIONS

CONSTRUCTION- Hood and tank constructed of 16 gauge type 304 S/S. Hood unit of all welded seamless construction. S/S frame, legs and feet. All internal castings are non-corrosive lead free nickel alloy, bronze or S/S.

DOORS- Extra large die formed 18-8 type 304 S/S front inspection door riding in all S/S channels. A triple ply leading edge on the door channels made of S/S with no plastic or nylon sleeves or liners used. Two intermediate S/S door safety stops on door.

CONVEYORS- One S/S roller chain conveyor, with rack driving lugs every sixth link, running along the front of the machine. Eleven free spinning rollers placed along the back wall of the machine. Conveyor accommodates all standard 20" racks. Conveyor drive system includes direct drive gear motor with frictionless, trouble-free clutch system, spring-loaded and automatically re-engaging. Racks conveyed automatically through washing and rinsing systems, powered by an independent 1/15 hp drive motor.

PUMP- Centrifugal type “packless” pump with a brass petcock drains. Construction includes ceramic seal and a balanced cast impeller on a precision ground stainless steel shaft, extension or sleeve. All working parts mounted as an assembly and removable as a unit without disturbing pump housing. 1 hp motor for each wash and rinse pump: standard horizontal C-face frame, drip proof, internally cooled with ball-bearing construction.

CONTROLS- Top mounted NEMA 12 control enclosure, with 3.5 inch air gap between hood and enclosure, housing motor overload protection, contactors, transformers and all other dishwasher controls. All controls safe low voltage 24 VAC.

ENERGY SAVER- Rack actuated lever automatically operates the final rinse solenoid only when a rack passes, saving water and energy. The lever also activates an adjustable timer control. If no ware passes during the set time, the machine shuts down.

SPRAY SYSTEM- Spray arms made of type 304 stainless steel pipe. Spray assemblies removable without the use of tools.

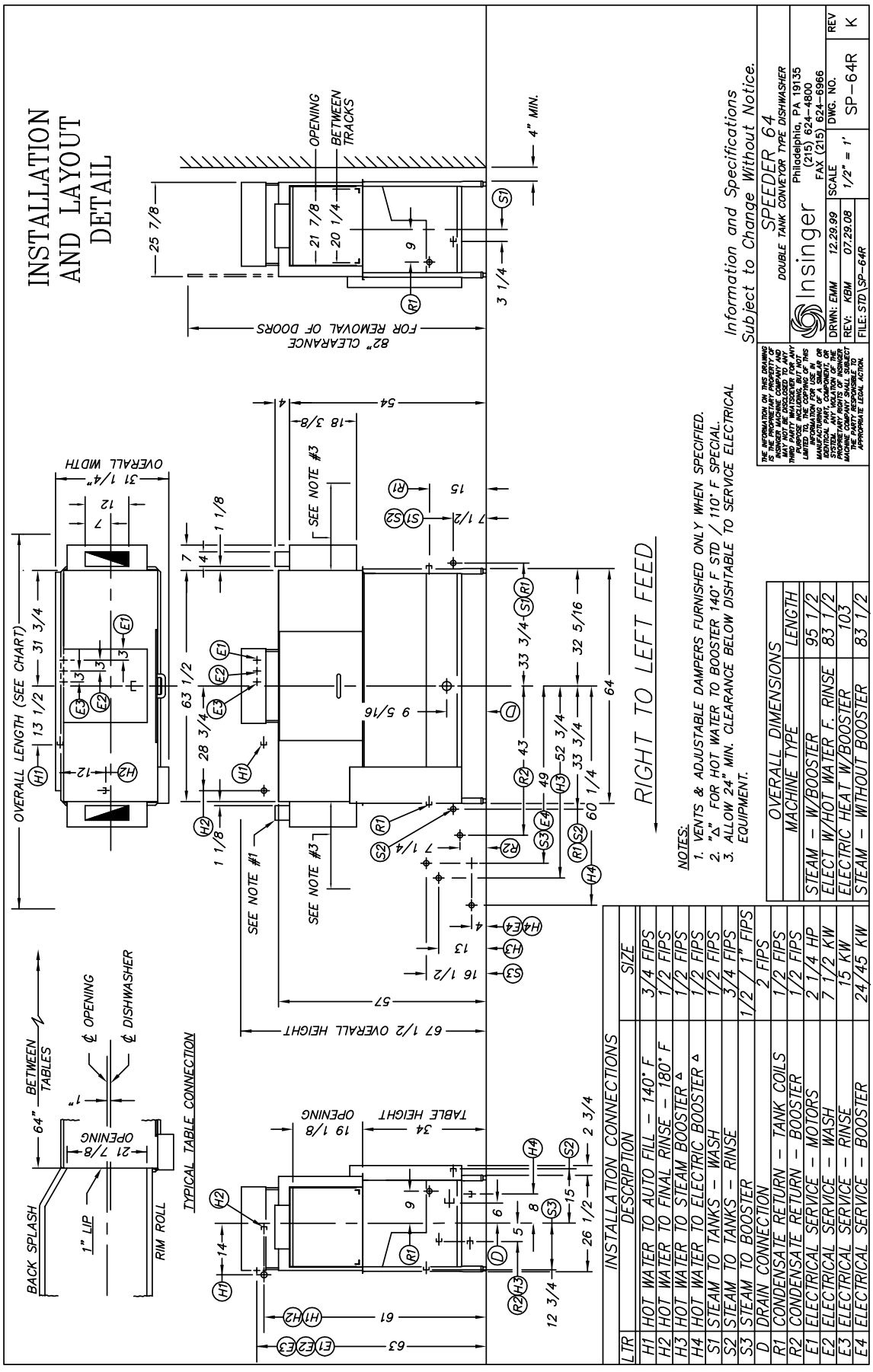
WASH- Upper and lower manifolds with the patented CrossFire® Wash System. One manifold above with 3 power wash arms, each with 9 high pressure cleaning slots and one manifold below with 3 power wash arms, each with 9 high pressure cleaning slots. The slots are precision milled for water control producing a fan spray. Wash arms are fillet welded to the S/S manifold. The CrossFire® Wash System provides 4 horizontally spraying high pressure nozzles.

RINSE- Upper and lower manifolds. One manifold above with 3 power rinse arms, each with 9 high pressure rinsing slots and one manifold below with 3 power rinse arms, each with 9 high pressure rinsing slots. The slots are precision milled for water control producing a fan spray. Rinse arms are fillet welded to the S/S manifold.

FINAL RINSE- Six nozzles above and three nozzles below threaded into S/S schedule 40 pipes. Nozzle assemblies produce a fan spray reducing water consumption, maximizing heat retention.

DRAIN- Drain valve externally controlled. Overflow assembly with skimmer cap is removable without the use of tools for drain line inspection. Heater is protected by low water level control.

Note: Exhaust requirements are for pant leg connections only. For hood type, CFM requirements vary, consult hood manufacturer for specific sizing.



INSTALLATION CONNECTIONS

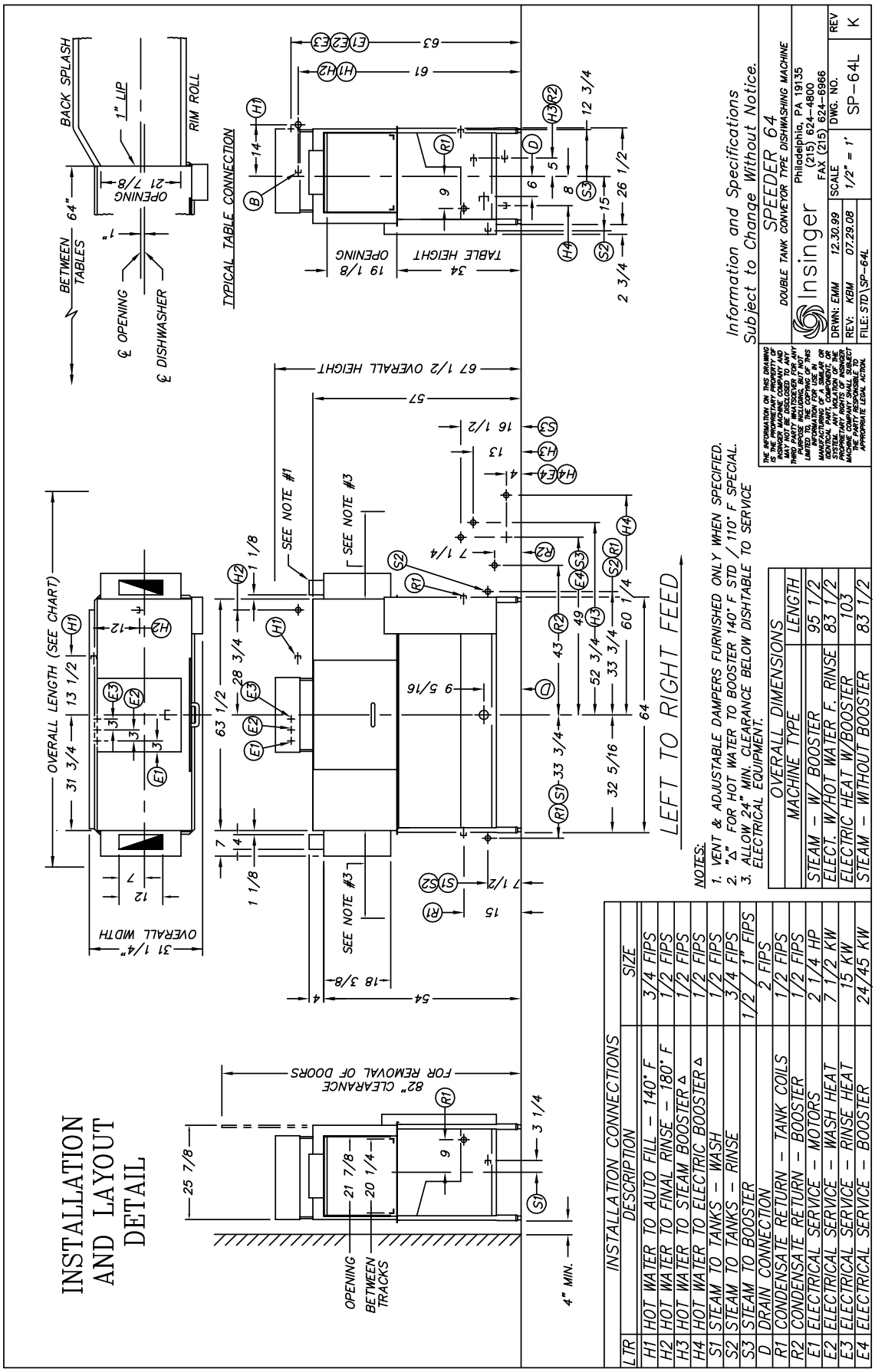
LTR	DESCRIPTION	SIZE
H1	HOT WATER TO AUTO FILL – 140° F	3/4 FIPS
H2	HOT WATER TO FINAL RINSE – 180° F	1/2 FIPS
H3	HOT WATER TO STEAM BOOSTER Δ	1/2 FIPS
H4	HOT WATER TO ELECTRIC BOOSTER Δ	1/2 FIPS
S1	STEAM TO TANKS – WASH	1/2 FIPS
S2	STEAM TO TANKS – RINSE	3/4 FIPS
S3	STEAM TO BOOSTER	1/2 / 1" FIPS
D	DRAIN CONNECTION	2 FIPS
R1	CONDENSATE RETURN – TANK COILS	1/2 FIPS
R2	CONDENSATE RETURN – BOOSTER	1/2 FIPS
E1	ELECTRICAL SERVICE – MOTORS	2 1/4 HP
E2	ELECTRICAL SERVICE – WASH	7 1/2 KW
E3	ELECTRICAL SERVICE – RINSE	15 KW
E4	ELECTRICAL SERVICE – BOOSTER	24/45 KW

OVERALL DIMENSIONS

MACHINE TYPE	LENGTH
STEAM – W/BOOSTER	95 1/2
ELECT W/HOT WATER F. RINSE	83 1/2
ELECTRIC HEAT W/BOOSTER	103
STEAM – WITHOUT BOOSTER	83 1/2

Contact Insinger Sales at 800-344-4802 for an Installation Drawing Specific to Your Application
This drawing is available on the Insinger Web stie at www.insingermachine.com

Speeder 64



NOTES:
1. VENT & ADJUSTABLE DAMPERS FURNISHED ONLY WHEN SPECIFIED.
2. "Δ" FOR HOT WATER TO BOOSTER 140° F STD / 110° F SPECIAL.
3. ALLOW 24" MIN. CLEARANCE BELOW DISHTABLE TO SERVICE ELECTRICAL EQUIPMENT.

OVERALL DIMENSIONS	
MACHINE TYPE	LENGTH
STEAM – W/ BOOSTER	95 1/2
STEAM – WITHOUT BOOSTER	83 1/2
ELECT. W/HOT WATER F. RINSE	83 1/2
ELECTRIC HEAT W/BOOSTER	103
STEAM – WITHOUT BOOSTER	83 1/2

INSTALLATION CONNECTIONS		
LTR	DESCRIPTION	SIZE
H1	HOT WATER TO AUTO FILL – 140° F	3/4 FIPS
H2	HOT WATER TO FINAL RINSE – 180° F	1/2 FIPS
H3	HOT WATER TO STEAM BOOSTER Δ	1/2 FIPS
H4	HOT WATER TO ELECTRIC BOOSTER Δ	1/2 FIPS
S1	STEAM TO TANKS – WASH	1/2 FIPS
S2	STEAM TO TANKS – RINSE	3/4 FIPS
S3	STEAM TO BOOSTER	1/2 / 1" FIPS
D	DRAIN CONNECTION	2 FIPS
R1	CONDENSATE RETURN – TANK COILS	1/2 FIPS
R2	CONDENSATE RETURN – BOOSTER	1/2 FIPS
E1	ELECTRICAL SERVICE – MOTORS	2 1/4 HP
E2	ELECTRICAL SERVICE – WASH HEAT	7 1/2 KW
E3	ELECTRICAL SERVICE – RINSE HEAT	15 KW
E4	ELECTRICAL SERVICE – BOOSTER	24/45 KW

Contact Insinger Sales at 800-344-4802 for an Installation Drawing Specific to Your Application
This drawing is available on the Insinger Web stie at www.insingermachine.com