

JFT Flight Machine

Project	
tem	
Quantity	
CSI Section 11400	
Approval	
Date	

Models



Standard Features

- Uses 139.2 gallons (526.9 liters) of water per hour with sanitizing hot water rinse
- · All tanks and hoods constructed from durable stainless steel with a No.3 finish and heliarced welded
- Stainless steel frame, legs and feet
- Two tank rackless conveyor shall have a maximum capacity of 14,964 dishes per hour at a belt speed of 8.6 (2.6 M) feet per minute. At 6.8 feet (2 M) per minute capacity will be 11,832 dishes per hour
- · Belt width of 29" (737 mm) and a maximum clearance of 25" (635mm) throughout the machine
- Enclosure panels, hood and doors are stainless steel and double wall insulated • Large, removable scrap screens to reduce heat dissipation, outside surface temperatures, and noise pollution
- Insulated access doors for removal, cleaning and servicing
- V-shape tank(s) design to increase visibility and accessibility for cleaning as well as insure complete tank draining
- Heated power rinse zone uses fresh rinse water a second time to provide pristine results

- A sequential digital temperature readout of each tank housed in the door of the electrical control panel. The readouts will constantly display the temperature of the pre-wash, wash, power rinse and final rinse in 5 second intervals
- A ball valve in the drain line of each tank and interconnected to a common machine drain connection at the load end of the machine
- Each tank will be automatically filled and maintained by a water level float. Water will be automatically added to the machine when required
- Block manifold wash arms are easy to remove, clean, and replace with nonclogging convex wash arm jets
- Self draining stainlesssteel pumps, impellers, and housings are readily accessible and serviceable
- Conveyor belt drive operates at two speeds and is protected by an overload safety device and an automatic shut-down actuator
- Each door is equipped with a door safety switch to prevent it from running when the door(s) are open.

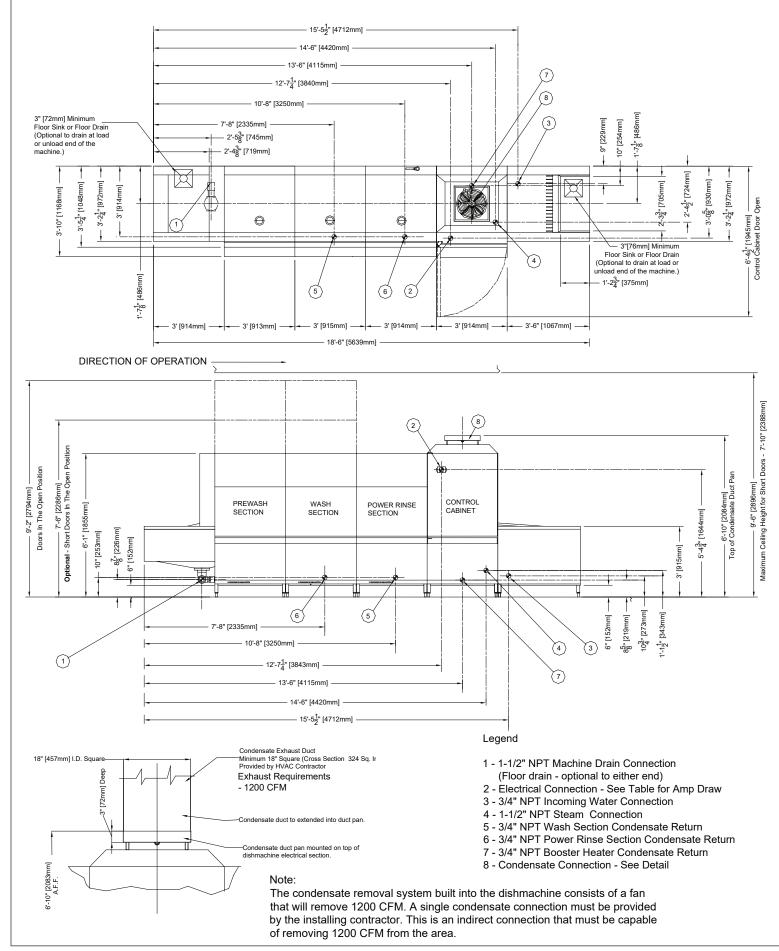
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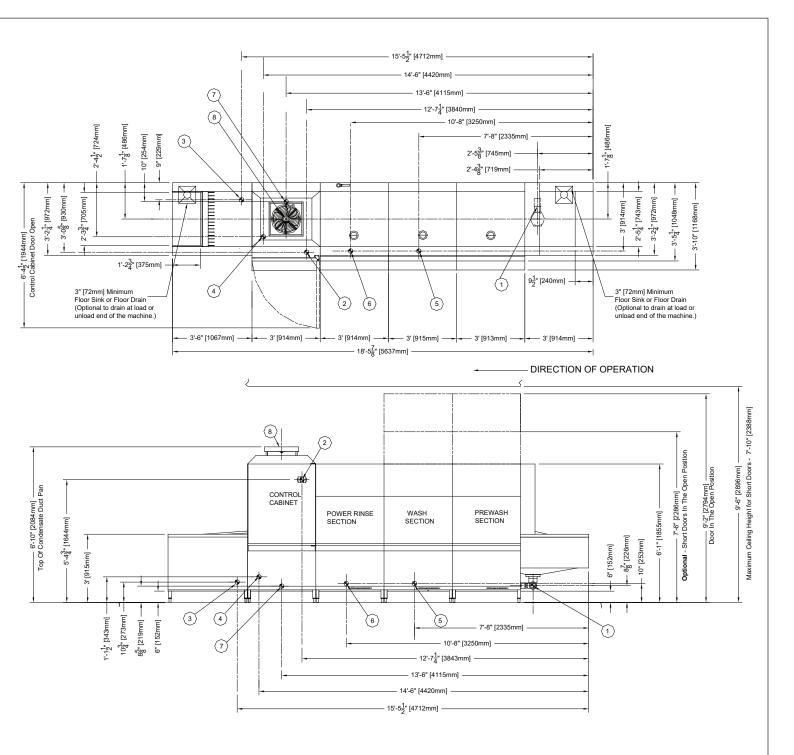
If a door is opened during operation the switch will immediately shut down the machine

- Operator activated start-stop switches on both the load and unload ends and the control panel
- Removable insulated panels to enclose the unit down to the base frame on both the front and rear of the machine
- A single, built-in18" (457mm) diameter indirect vent connection with a 0.19 hp exhaust fan mounted in a cleanable cross duct on the machine for condensate removal and indirect vent connection
- 3" minimum wall clearance
- Service access from front of machine



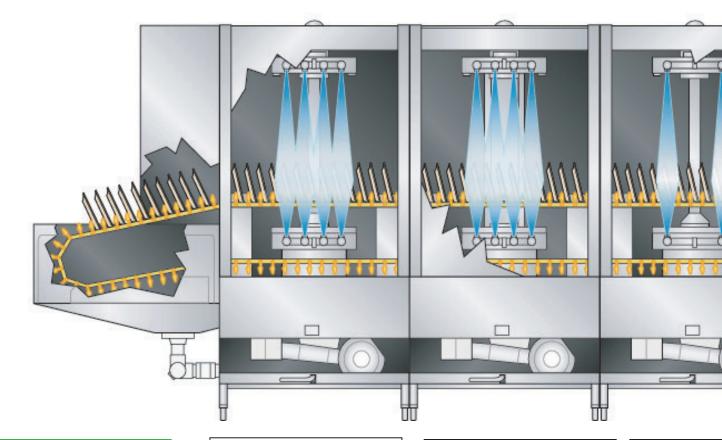
Steam





Jackson Rackless Conveyors			
Wash, Power Rinse & Final Rinse (18'-6" minimum length)			
Steam tank heat electrical requirements with booster			
	208V	230V	460V
Wash	9.7	9.7	4.9
Rinse	5.6	5.6	2.8
Pre-wash/Drive/Exhaust	12.2	12.3	6.2
Total	27.5	27.6	13.9

Jackson Rackless Conveyors				
Wash, Power Rinse & Final Rinse (18'-6" minimum length)				
Steam tank heat, booster and blower dryer electrical requirements				
	208V	230V	460V	
Wash	9.7	9.7	4.9	
Rinse	5.6	5.6	2.8	
Pre-wash/Drive/Exhaust	18.7	17.9	6.2	
Total	34.0	33.2	13.9	



Load

A "start/stop" switch is located at the load end of the machine for the operators convenience

Load platform is 12 gauge stainless steel.

Machine Dimensions

	Load	
Height	Depth	Length
36″ (914.4 mm)	38-1/4″ (972 mm)	36″ (914.4 mm)

Shipping Dimensions

Load / Unload (Shipped Together)			
Height Depth Length			
71″	48″	60″	
(914.4 mm)	(1219 mm)	(1524 mm)	
Weight: 621 lbs / 282 kg			

Pre-wash Tank

The pre-wash tank features a stainless steel manifold system with stricturefree jets to optimize pressure for soil removal and to provide easy access for removal and cleaning.

A 3.0 hp, 1725 RPM motor and pump is horizontally mounted. The pump housing is stainless steel and selfdraining. A stainless steel strainer with a removable basket is included. The pre-wash tank is a sloped design to ensure complete tank draining and to minimize soil build-up.

Pre-wash Tank		
Height	Depth	Length
73″ (1854 MM)	46″ (1168 MM)	36″ (914.4 mm)

Pre-wash Tank		
Height	Depth	Length
79″	48″	60″
(2007 mm)	(1219 mm	(1524 mm)
Weight: 642 lbs / 291 kg		

Wash Tank

The wash tank features a stainless steel manifold system with stricturefree jets to optimize pressure for soil removal and to provide easy access for removal and cleaning.

A 3.0 hp 1725 RPM motor and pump is horizontally mounted. The pump housing is stainless steel and selfdraining. A stainless steel strainer pan is included. The wash tank is a sloped design to ensure complete tank draining and to minimize soil build-up.

> Wash Tank Depth

> > 46″

(1168 mm)

Height

73″

(1854 mm)

Pov	ver Rir
Height	De
73″	46

(1168

(1854 mm)

Power R

Stainless steel po

stricture free jets

below the wares a

A 2.0 hp, 1725

stainless steel ho

are included. Po

sloped design to

tank draining an

build-up

for cleaning.

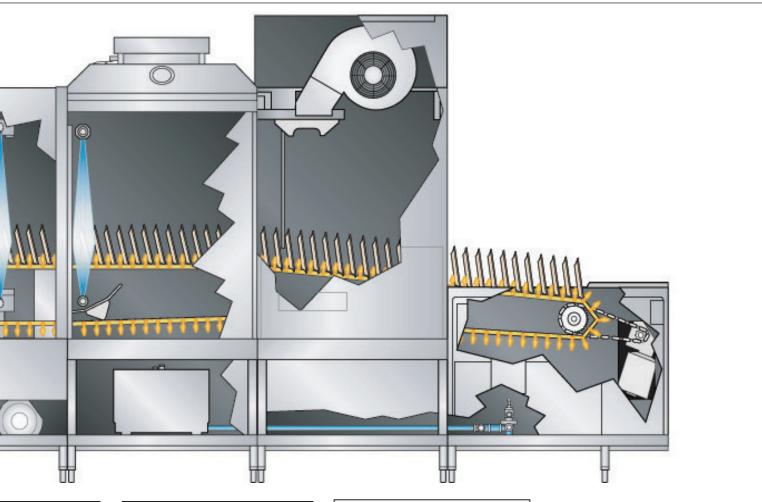
	Wash Tank		Pov	ver Ri i
Height	Depth	Length	Height	De
79″ (2007 mm)	48″ (1219 mm	60″ (1524 mm)	79″ (2007 mm)	4 (121
Weight	t: 642 lbs / 29	91 kg	Weigh	t: 627

Length

36″

(914.4 mm)

4 of 8



inse Tank

wer rinse arms with mounted above and are easily removable

RPM motor with a using and impeller wer rinse tank is a o ensure complete d to minimize soil

Final Rinse

Stainless steel rinse arms with jets mounted above and below the wares are easily removable for cleaning.

The final rinse water will cascade back to the power rinse, wash and then the pre-wash tanks.

Blower Dryer

A stainless steel tunnel incorporated into the discharge section of the machine. The blower dryer keeps the operating personnel from removing the wares before it reaches the end of the unload section. An industrial fantype with a squirrel cage driven by a 0.6 hp direct drive motor dries the wares as it exits the machine.

*The Blower Dryer is an option and must be specifed at time of order.

Unload

A "start/stop" switch is located at the unload end of the machine for the operators convenience.

Unload platform is 14 gauge stainless steel.

The drive wheel shaft is supported by two heavy-duty grease-lubricated ball bearings in pillow blocks.

nse Tank		
pth Length		
"	36″	
8 m m)	(914.4 mm)	

nse Tank		
pth	Length	
8″	60″	
9 mm	(1524 mm)	
lbs / 284 kg		

Final Rinse		
Height	Depth	Length
82″ (2083 mm)	46″ (1168mm)	36″ (914.4 mm)

	Final Rinse			
	Height	Depth	Length	
	60″ (1524 mm)			
	Weight: 635 lbs / 288 kg			

Blower Dryer				
Height	Depth	Length		
88" (2235 mm)	38-1/4″ (972 mm)	36 (914.4 mm)		

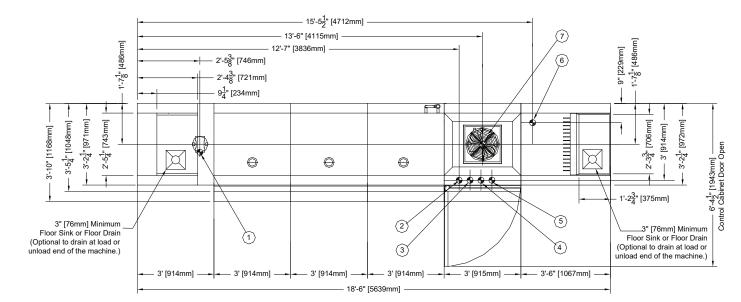
Blower Dryer				
Height	Depth	Length		
93″	48″	60″		
(2362 mm)	(1524 mm)			
Weight: 504 lbs / 229 kg				

	Unload		
Height	Depth	Length	
36″	38-1/4″	42″	
(914.4 mm)	(972 mm)	(1067 mm)	

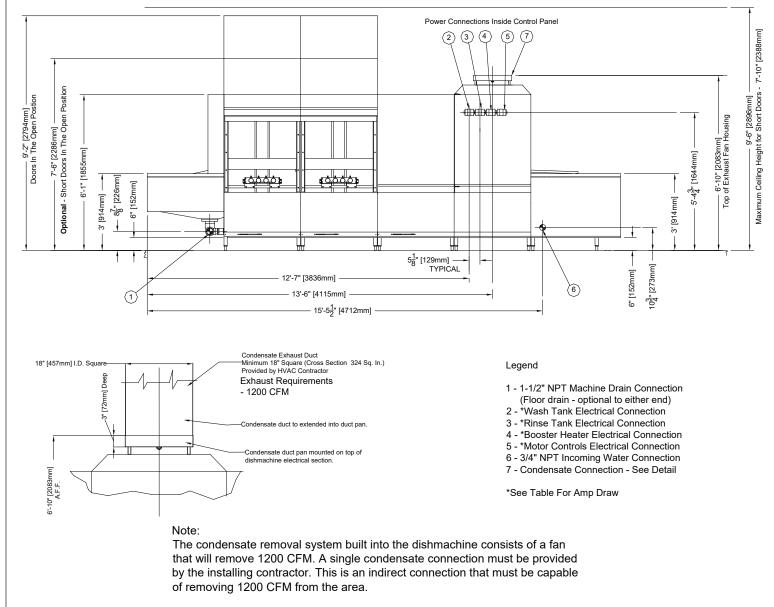
Un	load /	Load

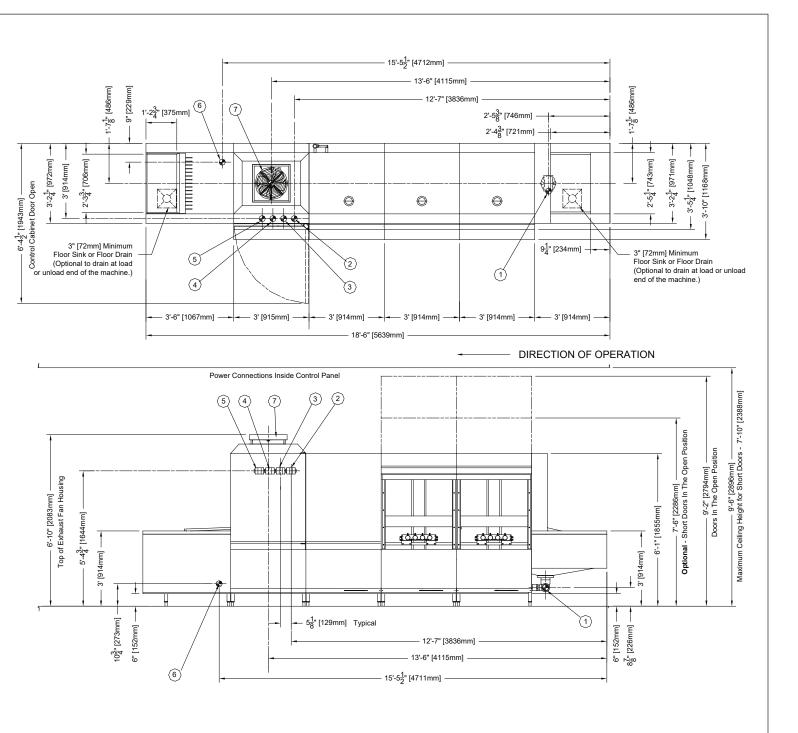
Shipped with load end

Electric



DIRECTION OF OPERATION ------





Jackson Rackless Conveyors						
Wash, Power Rinse & Final Rinse (18'-6" minimum length) Electric requirements with booster						
						KW 208V 230V 460V
Wash	24	76.3	69.9	35.0		
Rinse	26	77.8	70.8	35.4		
Motors and Controls		12.2	12.3	6.2		
Booster	36	100.0	83.0	42.0		
Total		266.3	236.0	118.6		

Jackson Rackless Conveyors				
Wash, Power Rinse & Final Rinse (18'-6" minimum length)				
Electric requirements with booster and blower dryer				
	KW	208V	230V	460V
Wash	24	76.3	69.9	36.0
Rinse	26	77.8	70.8	35.4
Blower Dryer, Motors and Controls	20	43.7	41.4	20.7
Booster	36	100.0	83.0	42.0
Total		297.8	265.1	134.1



ELECTRICAL

An electromechanical control system for increased reliability mounted in a stainlesssteel control cabinet on the front of the machine. A step-down transformer is included to provide 115 volt, 60 cycles, 1 phase operation for controls including selenoid valves, timers, etc. Wiring is 105C, 600-volt thermoplastic insulated wire and routed through UL approved conduit.

Low watt density tubular heating elements are mounted inside the wash and power rinse tanks and are easily removable from the exterior of the unit. Heaters are protected by a water level float switch control and a high limit overload.

Tank water temperature is maintained by a fast reacting thermostat which will control the heating element.

STEAM

Stainless steel tubular steam coils mounted inside the wash and power rinse tanks below the optimum water level and protected by a water level float switch control. An external "Y" strainer and high temperature steam solenoid to regulate the flow of steam through the coil. Tank temperature is controlled and maintained by a fast reacting thermostat that will control the operation of the steam solenoid. A float and thermostatic steam trap to remove the condensate from the coil are included. Steam coils will require a15-30 PSI flowing steam pressure.

BOOSTER HEATERS - ELECTRIC

An internally mounted 27 kW electric booster heater sized to raise incoming 110°F (43°C) water supply to 180°F (82°C) minimum for sanitizing rinse. The electric booster heater will have the capacity to heat 155 GPH from 110°F (43°C) to 180°F(82°C) minimum. The tank is designed for a working pressure 150 PSI and hydrostatically tested at 300 PSI. The heater is complete with all plumbing, including NPT pipe and fittings from inlet and outlet. Electric heating elements are metal sheathed controlled by a close tolerance immersion thermostat. The booster is protected with a high temperature limit switch and low water cut-off.

BOOSTER HEATERS - STEAM

An internally mounted steam booster heater sized to raise incoming 110°F (43°C) water supply to 180°F (82°C) minimum for sanitizing rinse. The steam booster heater will have the capacity to heat 216 GPH from 110°F (43°C) to180°F (82°C) minimum. The tank is designed for a working pressure 150 PSI and hydrostatically tested at 300 PSI. The heater is complete with all plumbing, including NPT pipe and fittings necessary to meet all installation requirements. The booster is protected with a high temperature limit switch and low water cut-off.

DIMENSION REQUIREMENTS		STEAM REQUIREMENTS		
Wall Clearance (Minimum)	3"(19 mm)	Steam Flow Pressure (PSIG)	10-30	
Inside Clearance	25″H x 30″W (635 mmx 762 mm)	Consumption @110°F Incoming Water Temp (Tanks only) 190 lk Consumption @110°F Incoming Water Temp (70° F Rise Booster) 136 lk		
	(055 111112 7 02 11111)			
OPERATING CAPACITY		Consumption with blower dryer	34 lbm/hr	
Dishes per Hour - Belt Speed 6.8 FPM (2.0 MFM)	11,832	WATER REQUIREMENTS		
Dishes per Hour - Belt Speed 8.6 FPM (2.6 MFM)	14,964		10°F (43°C)	
OPERATING TEMPERATURES		,		
			.2 gal (526.9 L)	
Pre-Wash (Recommended)	140°F (60°C)		3/4" (19 mm)	
Wash (Minimum)	152°F (67°C)	Drainline Size IPS (Minimum-Inches)	2" (51 mm)	
Rinse (Minimum)	161°F (72°C)	Flow Pressure (PSI) 15-2		
Final Rinse	180°F (82°C)	TANK CAPACITY		
MOTORS		Pre-Wash Tank 36	i gal (136 L)	
Pre-Wash Pump Motor	3.0 hp	Wash Tank 36	5 gal (136 L)	
Wash Pump Motor	3.0 hp	Power Rinse Tank 36	5 gal (136 L)	
Power Rinse Pump Motor	2.0 hp	PUMP CAPACITY		
Conveyor Drive Motor	1/4 hp		50 gal (984 L)	
			50 gal (984 L)	
IOW TO SPECIFY: JFT Flight Machine		Power Rinse Pump 23	30 gal (871 L)	

Jackson WWS, Inc.

Shipping Address: 6209 North U.S. Highway 25E, Gray, KY 40734 Mailing Address: P.O. Box 1060, Barbourville, KY 40906 Telephone: 888-800-5672 • Fax: 606-523-1799 Email: info@jacksonwws.com 07610-002-85-11 [10/10/18] www.jacksonwws.com