



Commercial Kitchen Equipment Parts

HOBART FT1000SE

Hobart FT1000Se document

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833-700-8006 | support@parthubz.com



Project _____
AIA # _____ SIS # _____
Item # _____ Quantity _____ C.S.I. Section 114000



FT1000Se ENERGY RECOVERY ELECTRIC Flight-Type Dishwashing Machine



Advansys model shown



Complies with EPA Reduction of Lead in Drinking Water Act 2014

Meets requirements of ASSE Standard No. 1004

SPECIFIER STATEMENT

The specified machine shall be a Hobart Energy Recovery flight type dish machine, 58 US gallons (220 L) of final rinse consumption per hour, with dual rinse, hinged & insulated doors, 30" (762 mm) wide conveyor belt, sliding wash arms without caps, microprocessor controls with auto clean, auto delime, energy recovery, and automatic soil removal system (ASR).

STANDARD FEATURES

- + Pumped rinse system (pressure gauge not required)
- + Water usage 58 US gal./hr (220 L/h)
- + Digital controls with machine diagnostics
- + Low temperature alert
- + Hinged insulated cabinet-style doors
- + 31" (787 mm) access on prewash & power wash chamber; 20" (508 mm) access on dual rinse and ASR chambers
- + Start and stop switches at both ends
- + Doors open indicator
- + Drains open indicator
- + Door interlocks
- + 3½ HP. (2.6 kW) prewash and wash pump motors, all TEFC
- + Capless auto clean wash arms
- + Easy to remove stainless steel scrap pans and baskets
- + 30" (762 mm) wide conveyor belt
- + Dual rinse
- + Automatic soil removal system (ASR)
- + Auto clean
- + Auto delime
- + Energy recovery
- + Front and rear panels
- + Variable speed conveyor
- + Electric booster heater
- + Configurable drain to load or unload

OPTIONS & ACCESSORIES (Available at extra cost)

- ☐ Insulated split, vertical slide-up doors
- ☐ Multiple conveyor options
- ☐ Factory mounted circuit breakers
- ☐ Correctional packages – standard, medium and maximum options (Contact Hobart for details)
- ☐ Casino packages
- ☐ 6" (152 mm) higher than standard chamber
- ☐ Flanged feet
- ☐ Water hammer arrestor/PRV (installed by others)
- ☐ Drain water tempering kit (installed by others)
- ☐ WS-80 water softener

FT SERIES – FT1000Se ENERGY RECOVERY ELECTRIC

Approved by _____ Date _____ Approved by _____ Date _____

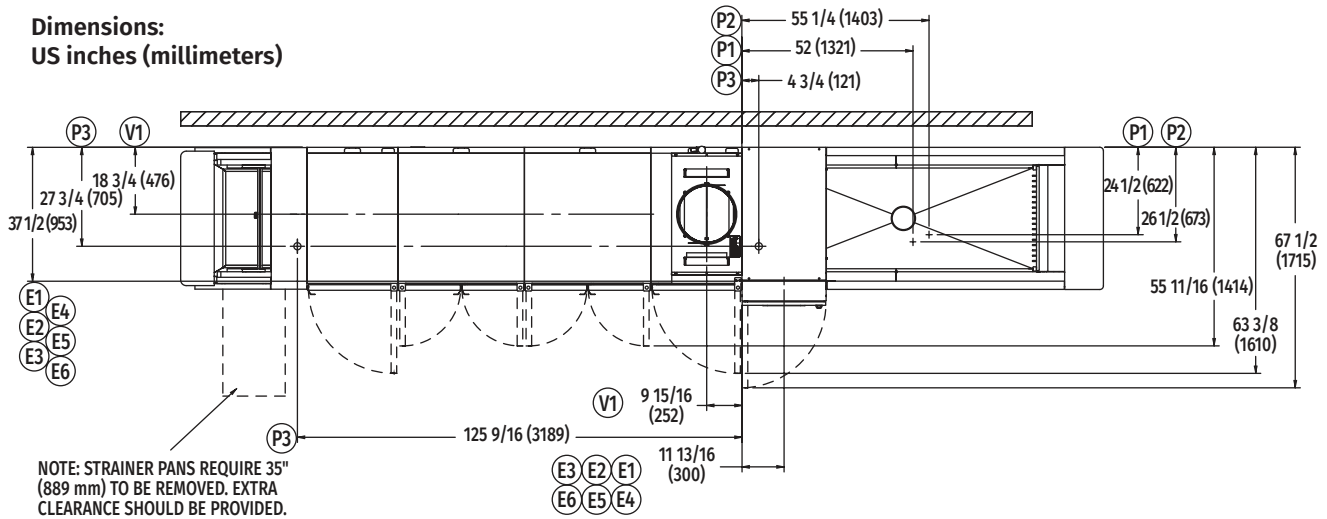


FT1000Se ENERGY RECOVERY ELECTRIC

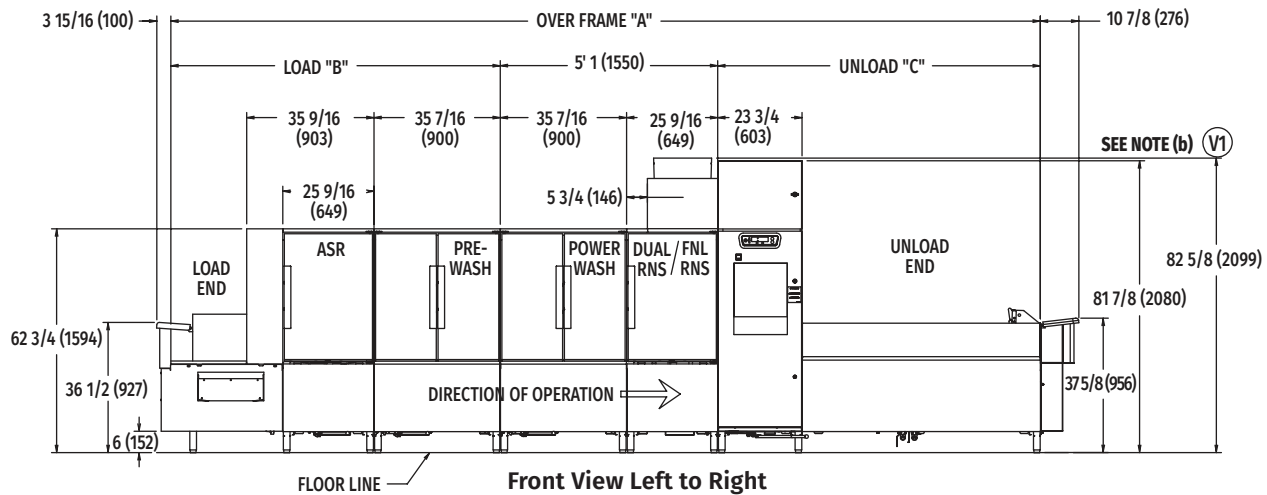
Flight-Type Dishwashing Machine

(Left to Right)

Dimensions:
US inches (millimeters)



Top View Left to Right



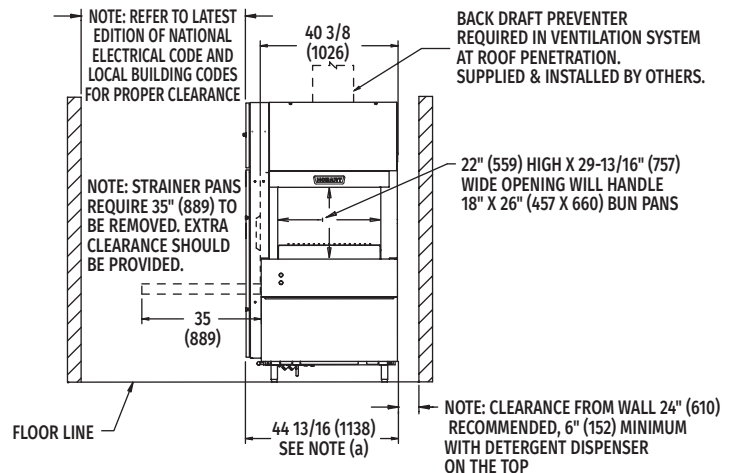
Front View Left to Right

Note: Control box electrical connections – see page 5.

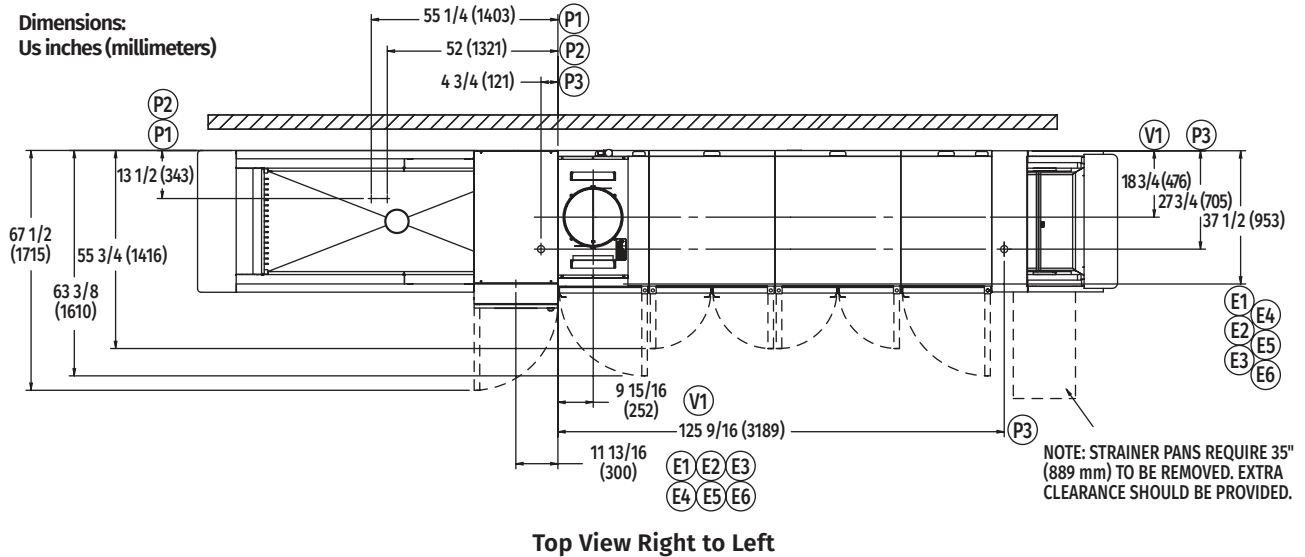
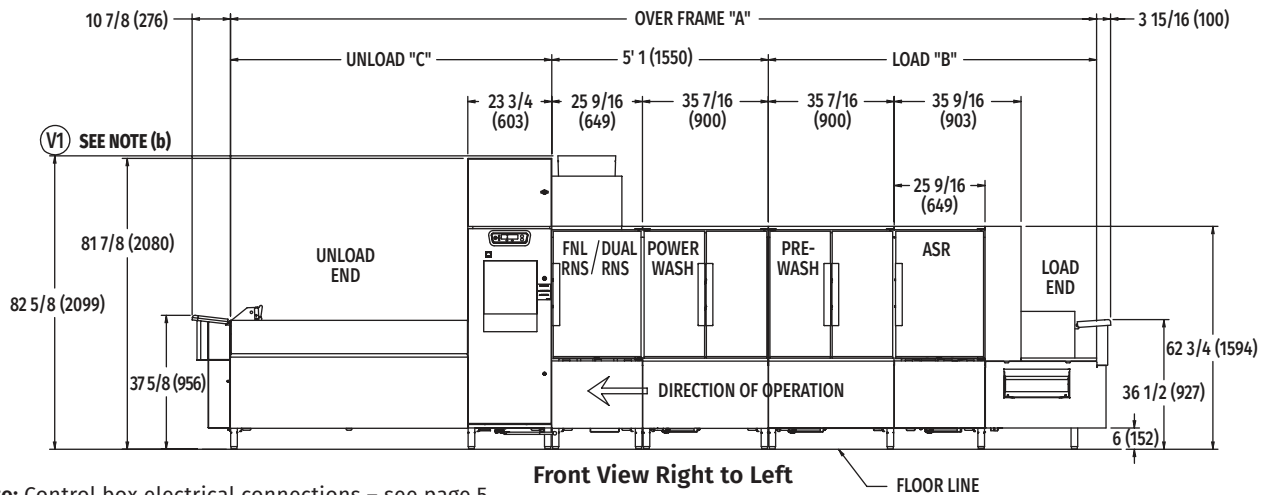
MODEL NO.	"A"	"B"	"C"
FT1018Se (7.5'-5'-5.5')	18' 4-9/16"	7' 8-1/2"	5' 7"
FT1019Se (8.5'-5'-5.5')	19' 4-5/16"	8' 8-1/4"	5' 7"
FT1020Se (9.5'-5'-5.5')	20' 4-5/32"	9' 8-3/32"	5' 7"
FT1020Se (7.5'-5'-7.5')	20' 4-1/16"	7' 8-1/2"	7' 6-1/2"
FT1021Se (8.5'-5'-7.5')	21' 3-13/16"	8' 8-1/4"	7' 6-1/2"
FT1022Se (9.5'-5'-7.5')	22' 3-21/32"	9' 8-3/32"	7' 6-1/2"
FT1022Se (7.5'-5'-9')	21' 11-13/16"	7' 8-1/2"	9' 2-1/4"
FT1023Se (8.5'-5'-9')	22' 11-9/16"	8' 8-1/4"	9' 2-1/4"
FT1024Se (9.5'-5'-9')	23' 11-13/32"	9' 8-3/32"	9' 2-1/4"
FT1024Se (7.5'-5'-11')	23' 11-7/16"	7' 8-1/2"	11' 1-7/8"
FT1025Se (8.5'-5'-11')	24' 11-3/16"	8' 8-1/4"	11' 1-7/8"
FT1026Se (9.5'-5'-11')	25' 11-1/32"	9' 8-3/32"	11' 1-7/8"
FT1027Se (7.5'-5'-15')	27' 6-3/4"	7' 8-1/2"	14' 9-3/16"
FT1028Se (8.5'-5'-15')	28' 6-1/2"	8' 8-1/4"	14' 9-3/16"
FT1029Se (9.5'-5'-15')	29' 6-11/32"	9' 8-3/32"	14' 9-3/16"
FT1029Se (7.5'-5'-17')	29' 6-5/16"	7' 8-1/2"	16' 8-3/4"
FT1030Se (8.5'-5'-17')	30' 6-1/16"	8' 8-1/4"	16' 8-3/4"
FT1031Se (9.5'-5'-17')	31' 5-29/32"	9' 8-3/32"	16' 8-3/4"

Note I: Overall length of machine is Dimension "A" + 14'-13/16".

Note II: See page 3 for metric dimensions.



Back/Unload End

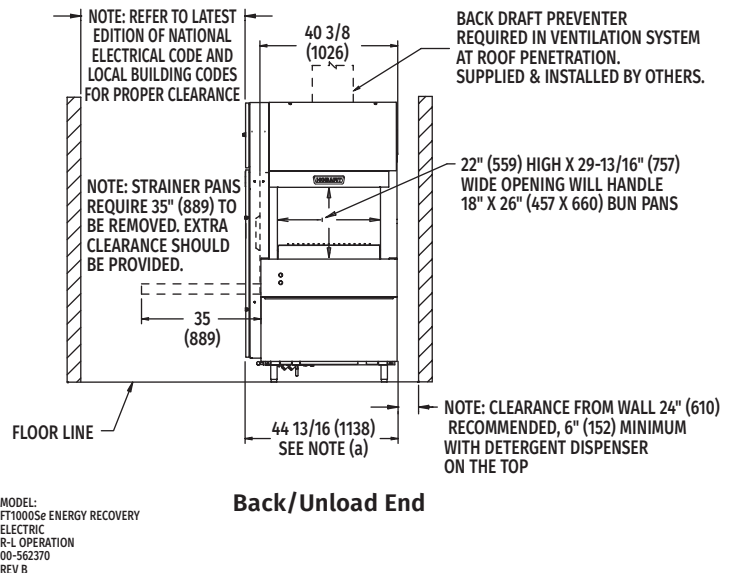


Note: Control box electrical connections – see page 5.

MODEL NO.	"A"	"B"	"C"
FT1018Se (2.29-1.52-1.68)	5.60	2.35	1.70
FT1019Se (2.59-1.52-1.68)	5.90	2.65	1.70
FT1020Se (2.90-1.52-1.68)	6.20	2.95	1.70
FT1020Se (2.29-1.52-2.29)	6.20	2.35	2.30
FT1021Se (2.59-1.52-2.29)	6.50	2.65	2.30
FT1022Se (2.90-1.52-2.29)	6.80	2.95	2.30
FT1022Se (2.29-1.52-2.74)	6.70	2.35	2.80
FT1023Se (2.59-1.52-2.74)	7.00	2.65	2.80
FT1024Se (2.90-1.52-2.74)	7.30	2.95	2.80
FT1024Se (2.29-1.52-3.35)	7.30	2.35	3.40
FT1025Se (2.59-1.52-3.35)	7.60	2.65	3.40
FT1026Se (2.90-1.52-3.35)	7.90	2.95	3.40
FT1027Se (2.29-1.52-4.57)	8.40	2.35	4.50
FT1028Se (2.59-1.52-4.57)	8.70	2.65	4.50
FT1029Se (2.90-1.52-4.57)	9.00	2.95	4.50
FT1029Se (2.29-1.52-5.18)	9.00	2.35	5.10
FT1030Se (2.59-1.52-5.18)	9.30	2.65	5.10
FT1031Se (2.90-1.52-5.18)	9.60	2.95	5.10

Note: Overall length of machine is Dimension "A" + 376 mm.

Note II: See page 2 for US dimensions.





FT1000Se ENERGY RECOVERY ELECTRIC

Flight-Type Dishwashing Machine

(Left to Right)

LEGEND

Electrical Connections	
E1	Electric connection for 1TB with or without circuit breakers. 79-1/8" (2010 mm) AFF.
E2	Electric connection for 2TB without circuit breakers. 79-1/8" (2010 mm) AFF.
E3	Electric connection for 3TB without circuit breakers. 79-1/8" (2010 mm) AFF.
E4	Electric connection for 4TB without circuit breakers. 79-1/8" (2010 mm) AFF.
E5	Electric connection for 5TB without circuit breakers. 79-1/8" (2010 mm) AFF.
E6	Electric connection for 2TB with circuit breakers. 79-1/8" (2010 mm) AFF.
Plumbing Connections	
P1	Common hot water connection (automatic fill) 110°F (43°C) water minimum, 1" (25 mm) FPT, 5-1/2" (140 mm) AFF.
P2	Common cold water connection, 55°F (13°C) minimum, 1" (25 mm) FPT, 5-1/2" (140 mm) AFF.
P3	Drain connection: Default location is drain to unload. May be drained to load end with field installed kit. 2" FPT (51 mm), 7" (178 mm) AFF.
Ventilation Connections	
V1	Customers' vent connection. Must fit inside 16" (406 mm) diameter vent stack providing 750 CFM (21.2 M³) exhaust at machine connection @ .75" water column (19.05 wc/mm) in standard air conditions. Back draft damper is REQUIRED ON ALL EGR models. Supplied and installed by others. 82-5/8" (2099 mm) AFF.

SERVICE CONNECTIONS WITH CIRCUIT BREAKERS (2 CONNECTIONS)

E1	Motors, Controls & Booster Heat (1TB) (1) Service Connection as Shown Below			
	Voltage	Rated Amps	Minimum Supply Circuit Ampacity	Maximum Protective Device
	208/60/3	70.7	90	90
	240/60/3	65.2	90	90
	480/60/3	36.1	50	50
	600/60/3	28.7	40	40
E6	Wash, Dual Rinse Heat (2TB) (1) Service Connection as Shown Below			
	Voltage	Rated Amps	Minimum Supply Circuit Ampacity	Maximum Protective Device
	208/60/3	125.7	175	175
	240/60/3	109.0	150	150
	480/60/3	54.5	70	70
	600/60/3	43.6	60	60

WARNING: Plumbing and electrical connections should be made by qualified personnel who will observe all the applicable plumbing, sanitary, safety codes and National Electrical Code.

General Notes:

- (a) The control box is attached to the center section and is rotated 90 degrees for shipping.

AFF = Above Finished Floor

All dimensions taken from the floor line may increase 3-1/4" (83 mm) with leg adjustment.

For convenience when cleaning, customer should install water tap near machine with 30 ft. (9 M) of heavy duty hose with squeeze valve.

This drawing is supplied as a reference for connection information only. It will not be utilized for manufacturing of unit.

Electrical Notes:

Service wire temperature rating: 90°C minimum.

Detergent and rinse aid feeder service connections standard on all FT1000e models at machine line voltage.

Dishmachine not provided with internal GFCI protection.

Plumbing Notes:

Recommended building flowing hot water pressure to the dishwasher is 40-45 PSI (275-310 kPa).

Recommended building flowing cold water to the dishwasher is 30-35 PSI (207-241 kPa). If cold water is less than 55°F (12.7°C), contact sales engineering.

Water hammer arrestor (meeting ASSE-1010 standard or equivalent) to be supplied (by others) in hot and cold supply lines at service connection.

Ventilation Notes:

- (b) The vent stack and its enclosure can be temporarily removed from the energy recovery unit to yield 81-7/8" (2080 mm) clearance for doorways.

Room ventilation is required to handle machine's latent & sensible heat.

Vent fan control standard on all FT1000e models.

Water Quality Required:

Total water hardness < 3 grains per gallon (51.3 ppm).

Total suspended solids (TSS) < 10 microns.

SERVICE CONNECTION WITH CIRCUIT BREAKERS (SINGLE POINT ELECTRICAL CONNECTION)

E1	Motors, Controls, Dual Rinse (1TB) Wash & Booster Heat (1) Single Point Connection as Shown Below			
	Voltage	Rated Amps	Minimum Supply Circuit Ampacity	Maximum Protective Device
	480/60/3	90.6	125	125
	600/60/3	72.3	100	100



FT1000Se ENERGY RECOVERY ELECTRIC

Flight-Type Dishwashing Machine

(Right to Left)

SERVICE CONNECTIONS WITHOUT CIRCUIT BREAKERS (5 CONNECTIONS)

E1 Motors & Controls (1TB) (1) Service Connection as Shown Below			
Voltage	Rated Amps	Minimum Supply Circuit Ampacity	Maximum Protective Device
208/60/3	29.1	40	40
240/60/3	29.1	40	40
480/60/3	18.1	25	25
600/60/3	14.3	20	20
E2 Electric Tank Heat, Wash (2TB) (1) 17.3 kW Connection as Shown Below			
Voltage	Rated Amps	Minimum Supply Circuit Ampacity	Maximum Protective Device
208/60/3	48.0	70	70
240/60/3	41.6	60	60
480/60/3	20.8	30	30
600/60/3	16.6	25	25
E3 Electric Tank Heat, Wash (3TB) (1) 17.3 kW Connection as Shown Below			
Voltage	Rated Amps	Minimum Supply Circuit Ampacity	Maximum Protective Device
208/60/3	48.0	70	70
240/60/3	41.6	60	60
480/60/3	20.8	30	30
600/60/3	16.6	25	25
E4 Dual Rinse (4TB) (1) 10.7 kW Service Connection as Shown Below			
Voltage	Rated Amps	Minimum Supply Circuit Ampacity	Maximum Protective Device
208/60/3	29.7	40	40
240/60/3	25.7	35	35
480/60/3	12.9	20	20
600/60/3	10.3	15	15
E5 Electric Booster (5TB) (1) 15 kW Service Connection as Shown Below			
Voltage	Rated Amps	Minimum Supply Circuit Ampacity	Maximum Protective Device
208/60/3	41.6	60	60
240/60/3	36.1	50	50
480/60/3	18.0	25	25
600/60/3	14.4	20	20

Heat Gain to Space (BTU/Hr.)	
Latent	Sensible
65,900	28,200

SPECIFICATIONS

Capacities

Conveyor Speed (feet/M per minute) 4.0 - 6.3/1.2 - 1.9
Dishes per Hour 10,611
ASR Tank (U.S. gallons/L) 7.2/27
Prewash Tank (U.S. gallons/L) 40/151
Wash Tank (U.S. gallons) 40/151
Dual Rinse Tank (U.S. gallons) 7.2/27

Motor Horsepower/kW & Watts

Auto Soil Removal 1/4/187
ASR Wash. 1/3/249
Prewash Tank 3 1/2/2.6 kW
Wash Tank 3 1/2/2.6 kW
Dual Rinse Tank 1/6/124
Final Rinse 1/2/373
Conveyor 1/3/249

Water Consumption

U.S. Gallons/L per Hour (maximum use) 58/220
U.S. Gallons/L per Minute 0.97/3.7

Electric Tank and Booster Heat

Tank Heat, Electric Total tank heat - 45.3 kW
(kW regulated) (Wash, Rinse, Dual Rinse)
Electric Booster (kW) 15.0

Shipping Weight (approximate) . . . Varies by individual model
(Consult your Hobart representative)

Crated Dimensions Varies by individual model
(Consult your Hobart representative)

FT1000 Advansys Water Treatment System	
Model	Description
WS-80	Water Softener
Available through Hobart Service only	
PF-10-EHT	Hi-Temp Filter Housing
SD-510HT	Sediment Filter Cartridge

CONTROL BOX ELECTRICAL CONNECTIONS

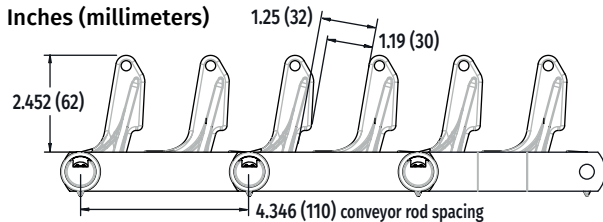


*Note for installing electrician: Repunch holes E1 and E6 as required to coincide with conduit requirements for machines with circuit breakers.

Detail "A-A"
(not to scale)

CONVEYOR TYPE OPTIONS

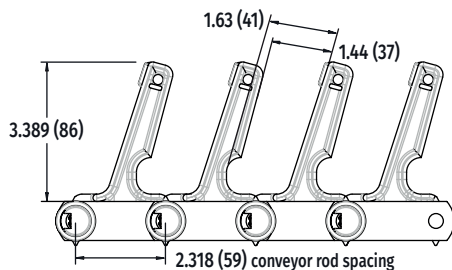
All conveyors provided with standard polypropylene material. Optional stainless steel conveyors available by request. Please contact your sales representative for stainless steel conveyor options.



STANDARD

Standard Conveyor designed for General Ware including tableware (Plates/Bowls), most serving trays [lip height less than 1¼" (32 mm)] as well as prep-ware (Hotel & Sheet Pans).

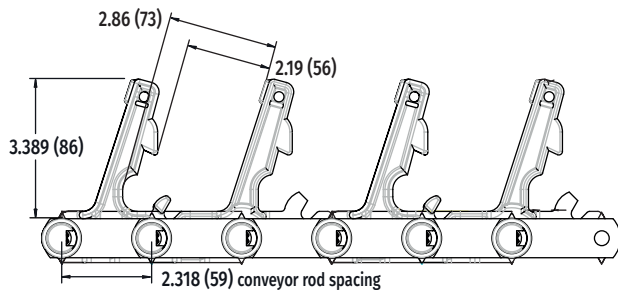
- Optional cross-rods every 4th row available for additional support of heavier ware (oversized ware/mixing bowls) as well as to promote ware washing drainage at optimal angle (hotel pans).



TYPE A

Optional Conveyor designed exclusively with our Healthcare segments in mind. In addition to accommodating General Ware, the Type A conveyor has a tighter conveyor rod spacing which provides increased conveyor density for added strength, as well as additional finger height and spacing to support most insulated dome bases and lids.

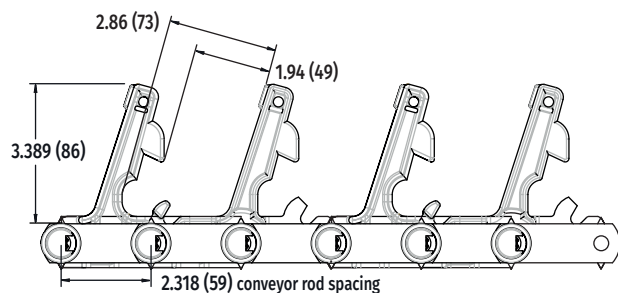
- Optional cross-rods every 4th row available for additional support of heavier ware (oversized ware/mixing bowls) as well as to promote ware washing drainage at optimal angle (hotel pans).



POSITION 1

Optional Conveyor designed for customers using insulated compartmentalized trays, as well as thicker insulated dome bases and lids. In addition to accommodating General Ware, the Position 1 conveyor provides even greater spacing between fingers, as well as a pronounced ⅜" (9.5 mm) "nose" to secure compartmentalized trays in place.

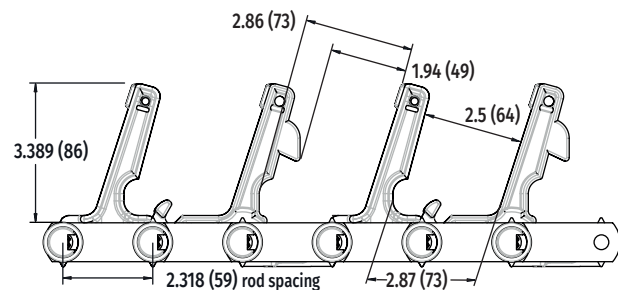
- Optional cross-rods every 4th row available for additional support of heavier ware (oversized ware/mixing bowls) as well as to promote ware washing drainage at optimal angle (hotel pans). Cross-rods can also be used to create stable support for some compartmentalized trays to orient upright through dishmachine.



POSITION 2

Optional Conveyor designed for customers using insulated compartmentalized trays, as well as thicker insulated dome bases and lids. In addition to accommodating General Ware, the Position 2 conveyor provides additional spacing between fingers, as well as a pronounced ⅝" (15.9 mm) "nose" to secure compartment trays in place.

- Optional cross-rods every 4th row available for additional support of heavier ware (oversized ware/mixing bowls) as well as to promote ware washing drainage at optimal angle (hotel pans). Cross-rods also create stable support for compartmentalized trays to orient upright through dishmachine.



TIVOLI

Optional Conveyor designed exclusively with our Correctional segments in mind. In addition to accommodating General Ware, the Tivoli conveyor provides our widest spacing between fingers as well as a ⅝" (15.9 mm) "nose" to support the largest insulated compartmentalized trays, commonly used in correctional settings. The Tivoli conveyor comes standard with cross-rods every 3rd row for additional support of heavier ware (oversized ware/mixing bowls) as well as to promote ware washing drainage at optimal angle (hotel pans). Cross-rods also create stable support for compartmentalized trays to orient upright through dishmachine.



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