Commercial Kitchen Equipment Parts

HOBART FT1000E-ER

Hobart FT1000e-ER document

Provided by PartHubz

parthubz.com

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HOBART

Project _____

AIA # _____ SIS # _____

Item # _____ Quantity _____ C.S.I. Section 114000

COMMERCIAL DISHWASHERS

FT1000*e* ENERGY RECOVERY ELECTRIC WITH BLOWER DRYER

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 with blower dryer flight type dish machine, 58 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, automatic soil removal system (ASR), and blower dryer.

STANDARD FEATURES

+ Pumped rinse system (pressure gauge not required)
+ Water usage 58 gph (220 L/h)
+ Digital controls with machine diagnostics
+ Low temperature alert
+ Hinged insulated cabinet-style doors
+ 31" (787 mm) access on prewash, power wash and power rinse chambers; 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 H.P. (2.6 kW) prewash, power wash, and power rinse 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
+ Electric blower dryer

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 – FT1000*e* ENERGY RECOVERY ELECTRIC WITH BLOWER DRYER

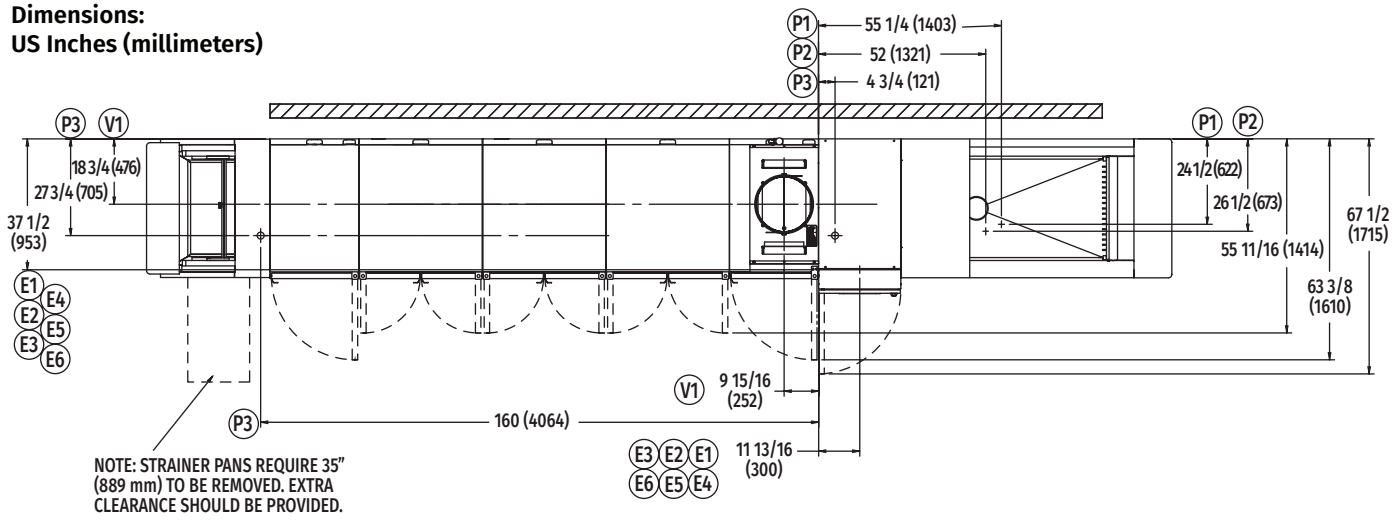
Approved by _____ Date _____ Approved by _____ Date _____

FT1000*e* ENERGY RECOVERY ELECTRIC WITH BLOWER DRYER

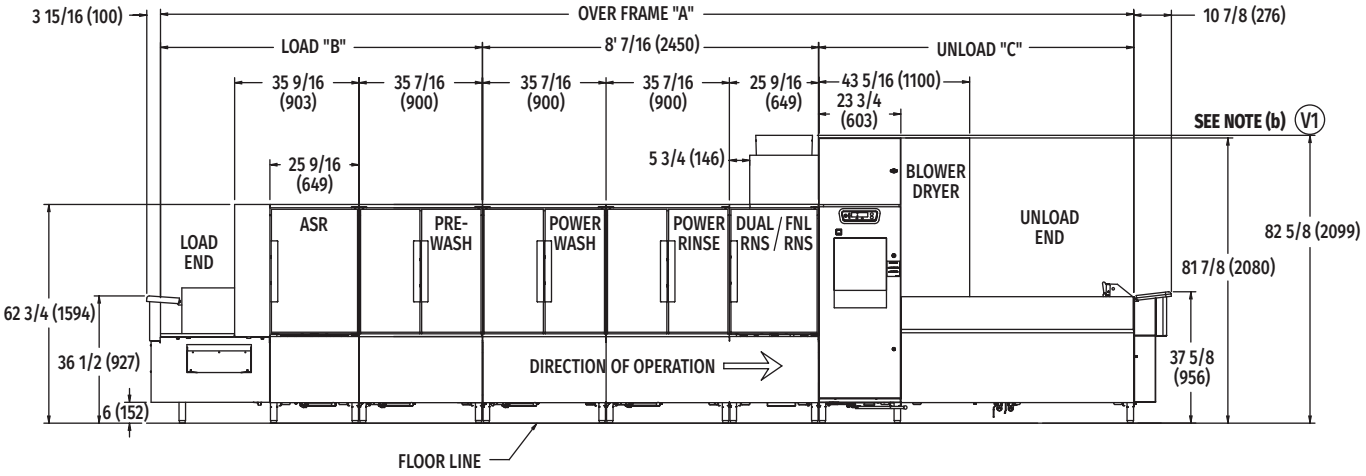
Flight-Type Dishwashing Machine

(Left to Right)

Dimensions:
US Inches (millimeters)



Top View Left to Right

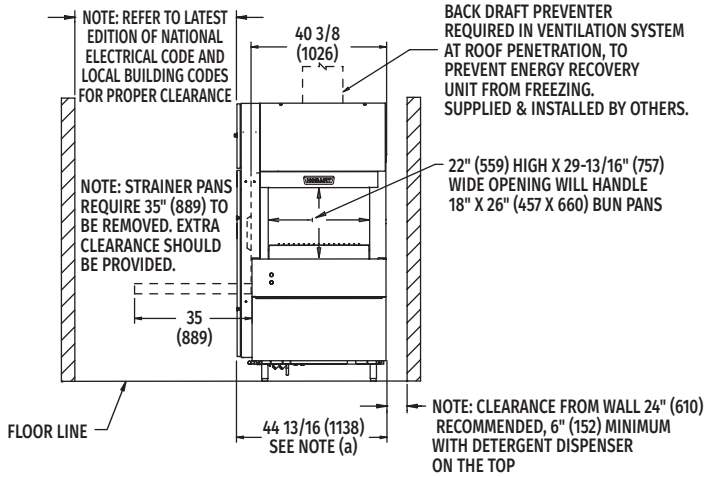


Front View Left to Right

Note: Control box electrical connections – see page 5.

MODEL NO.	"A"	"B"	"C"
FT1023 (7.5'-8'-7.5')	23' 3-1/2"	7' 8-1/2"	7' 6-1/2"
FT1024*e* (8.5'-8'-7.5')	24' 3-1/4"	8' 8-1/4"	7' 6-1/2"
FT1025*e* (9.5'-8'-7.5')	25' 3-3/32"	9' 8-3/32"	7' 6-1/2"
FT1025*e* (7.5'-8'-9')	24' 11-1/4"	7' 8-1/2"	9' 2-1/4"
FT1026*e* (8.5'-8'-9')	25' 11"	8' 8-1/4"	9' 2-1/4"
FT1027*e* (9.5'-8'-9')	26' 10-27/32"	9' 8-3/32"	9' 2-1/4"
FT1027*e* (7.5'-8'-11')	26' 10-7/8"	7' 8-1/2"	11' 1-7/8"
FT1028*e* (8.5'-8'-11')	27' 10-5/8"	8' 8-1/4"	11' 1-7/8"
FT1029*e* (9.5'-8'-11')	28' 10-15/32"	9' 8-3/32"	11' 1-7/8"
FT1030*e* (7.5'-8'-15')	30' 6-3/16"	7' 8-1/2"	14' 9-3/16"
FT1031*e* (8.5'-8'-15')	31' 5-15/16"	8' 8-1/4"	14' 9-3/16"
FT1032*e* (9.5'-8'-15')	32' 5-25/32"	9' 8-3/32"	14' 9-3/16"
FT1032*e* (7.5'-8'-17')	32' 5-3/4"	7' 8-1/2"	16' 8-3/4"
FT1033*e* (8.5'-8'-17')	33' 5-1/2"	8' 8-1/4"	16' 8-3/4"
FT1034*e* (9.5'-8'-17')	34' 5-11/32"	9' 8-3/32"	16' 8-3/4"

Note I: Overall length of machine is Dimension "A" + 14-13/16"
Note II: Metric dimensions – see page 3



MODEL:
FT1000*e* ENERGY RECOVERY
W/BLOWER DRYER
ELECTRIC
L-R OPERATION
00-562365
REV B

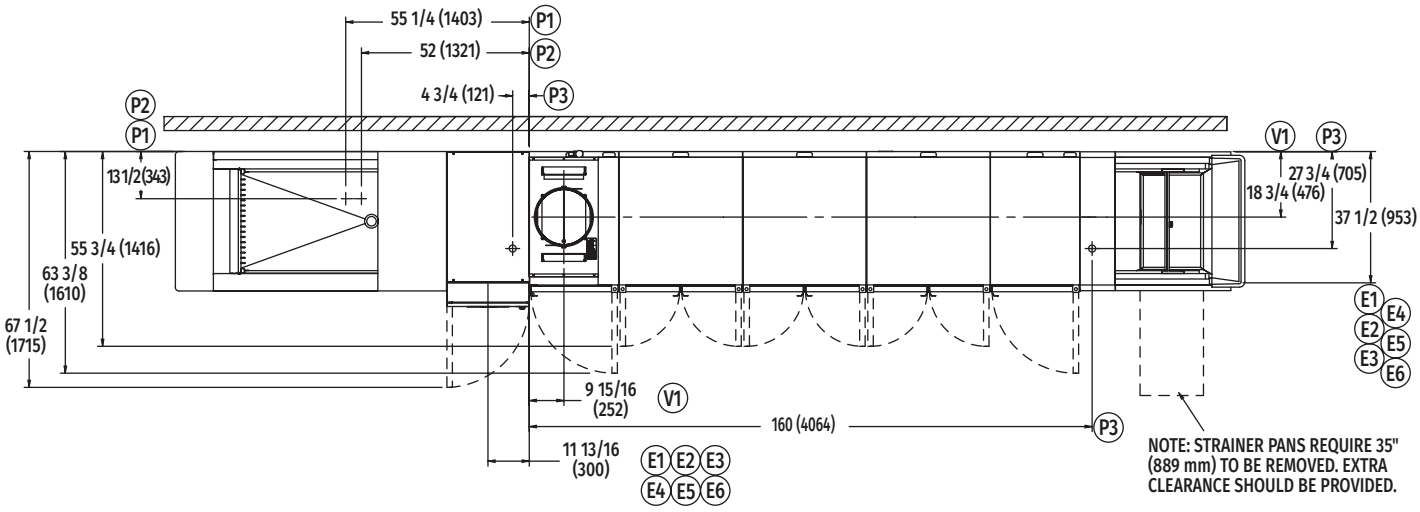
Back/Unload End

CAD and/or Revit Files Available

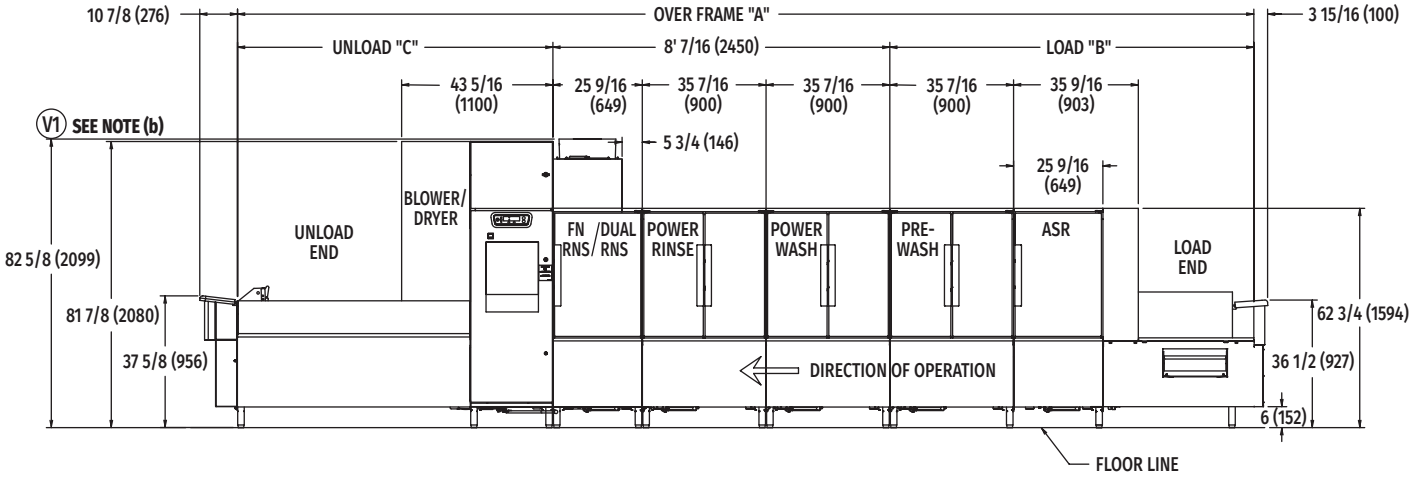
FT1000*e* ENERGY RECOVERY ELECTRIC WITH BLOWER DRYER

Flight-Type Dishwashing Machine

(Right to Left)



Top View Right to Left

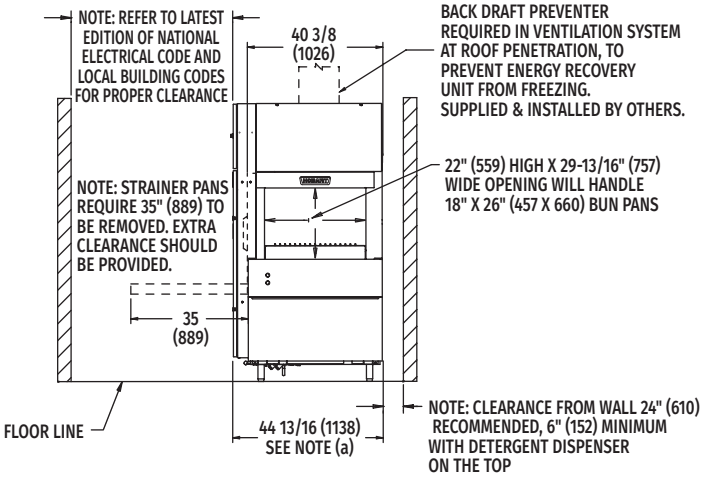


Front View Right to Left

Note: Control box electrical connections – see page 5.

MODEL NO. (Meters)	"A"	"B"	"C"
FT1023 (2.29-2.44-2.29)	7.1	2.35	2.3
FT1024*e* (2.59-2.44-2.29)	7.4	2.65	2.3
FT1025*e* (2.9-2.44-2.29)	7.7	2.95	2.3
FT1025*e* (2.29-2.44-2.74)	7.5	2.35	2.8
FT1026*e* (2.59-2.44-2.74)	7.9	2.65	2.8
FT1027*e* (2.9-2.44-2.74)	8.2	2.95	2.8
FT1027*e* (2.29-2.44-3.35)	8.2	2.35	3.4
FT1028*e* (2.59-2.44-3.35)	8.5	2.65	3.4
FT1029*e* (2.9-2.44-3.35)	8.8	2.95	3.4
FT1030*e* (2.29-2.44-4.57)	9.3	2.35	4.5
FT1031*e* (2.59-2.44-4.57)	9.6	2.65	4.5
FT1032*e* (2.9-2.44-4.57)	9.9	2.95	4.5
FT1032*e* (2.29-2.44-5.2)	9.9	2.35	5.1
FT1033*e* (2.59-2.44-5.2)	10.2	2.65	5.1
FT1034*e* (2.9-2.44-5.2)	10.5	2.95	5.1

Note I: Overall length of machine is Dimension "A" + 376 mm.
Note II: Imperial measures – see page 2



MODEL:
FT1000*e* ENERGY RECOVERY W/BLOWER DRYER
ELECTRIC
R-L OPERATION
00-562364
REV B

Back/Unload End

CAD and/or Revit Files Available

FT1000*e* ENERGY RECOVERY ELECTRIC WITH BLOWER DRYER

Flight-Type Dishwashing Machine

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 M^3) 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, Power Rinse & Booster Heat (1TB) (1) Service Connection as Shown Below		
Voltage	Rated Amps	Minimum Supply Circuit Ampacity	Maximum Protective Device
208/60/3	139.0	175	175
240/60/3	125.6	175	175
480/60/3	66.9	90	90
600/60/3	52.9	70	70

E6	Wash, Dual Rinse Heat Blower Dryer Heat & Blower (2TB) (1) Service Connection as Shown Below		
Voltage	Rated Amps	Minimum Supply Circuit Ampacity	Maximum Protective Device
208/60/3	95.6	125	125
240/60/3	83.2	125	125
480/60/3	42.0	60	60
600/60/3	33.6	45	45

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 FT1000*e* 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 FT1000*e* 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 Heat, Power Rinse, Wash & Blower Dryer Heat, Blower & Booster Heat (1TB) (1) Single Point Connection as Shown Below		
Voltage	Rated Amps	Minimum Supply Circuit Ampacity	Maximum Protective Device
480/60/3	108.9	150	150
600/60/3	86.5	125	125

FT1000*e* ENERGY RECOVERY ELECTRIC WITH BLOWER DRYER

Flight-Type Dishwashing Machine

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	38.0	50	50
240/60/3	38.0	50	50
480/60/3	23.1	30	30
600/60/3	17.9	25	25

E2	Electric Tank Heat, Power Rinse (2TB) (1) 21.4 kW Connection as Shown Below		
Voltage	Rated Amps	Minimum Supply Circuit Ampacity	Maximum Protective Device
208/60/3	59.4	80	80
240/60/3	51.5	70	70
480/60/3	25.7	35	35
600/60/3	20.6	30	30

E3	Electric Tank Heat, Wash (3TB) (1) 18 kW Connection as Shown Below		
Voltage	Rated Amps	Minimum Supply Circuit Ampacity	Maximum Protective Device
208/60/3	50.0	70	70
240/60/3	43.3	60	60
480/60/3	21.7	30	30
600/60/3	17.3	25	25

E4	Electric Tank Heat, Dual Rinse 10.7 kW, Blower Dryer Heat 4.5 kW & Blowers (4TB) (1) Service Connection as Shown Below		
Voltage	Rated Amps	Minimum Supply Circuit Ampacity	Maximum Protective Device
208/60/3	45.6	60	60
240/60/3	39.9	50	50
480/60/3	20.4	30	30
600/60/3	16.3	25	25

E5	Electric Booster (5TB) (1) 15 kW 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
78,400	33,600

SPECIFICATIONS

Capacities

Conveyor Speed (feet/M per minute) . . . . . 4.0 - 8.5/1.2 - 2.6
Dishes per Hour 14,316
ASR Tank (U.S. gallons/L) 7.2/27
Pre-Wash Tank (U.S. gallons/L) 40/151
Wash Tank (U.S. gallons) 40/151
Rinse Tank (U.S. gallons) 40/151
Dual Rinse Tank (U.S. gallons) 7.2/27

Motor Horsepower/kW & Watts

Auto Soil Removal ¼/187
ASR Wash ⅓/249
Pre-Wash Tank . . . . . 3½/2.6 kW
Wash Tank . . . . . 3½/2.6 kW
Rinse Tank . . . . . 3½/2.6 kW
Dual Rinse Tank ⅙/124
Final Rinse ½/373
Conveyor ⅓/249
Blower Dryer . . . . . 2.0/1.5 kW

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 - 50.1 kW
(kW regulated) (Wash, Rinse, Dual Rinse)
Blower Dryer (kW) 4.5
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)

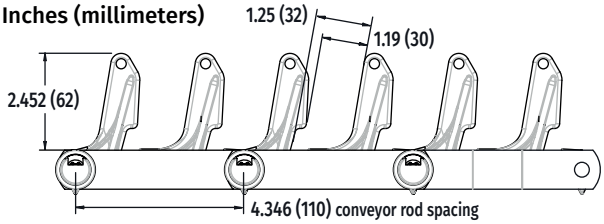
FT1000*e* ENERGY RECOVERY ELECTRIC WITH BLOWER DRYER

Flight-Type Dishwashing Machine

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.

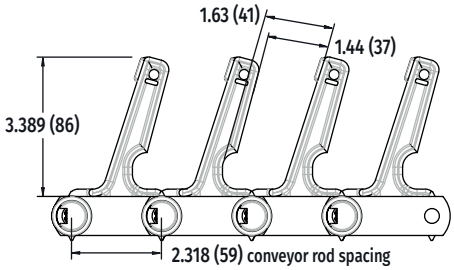
Inches (millimeters)



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).

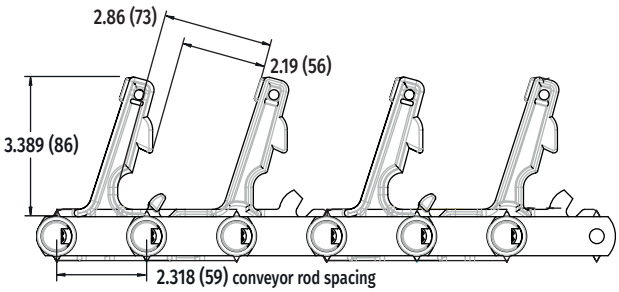
- Optional cross-rods every 4th row available for additional support of heavier ware (oversized ware/mixing bowls) as well as to promote warewashing drainage at optimal angle (hotel pans).



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.

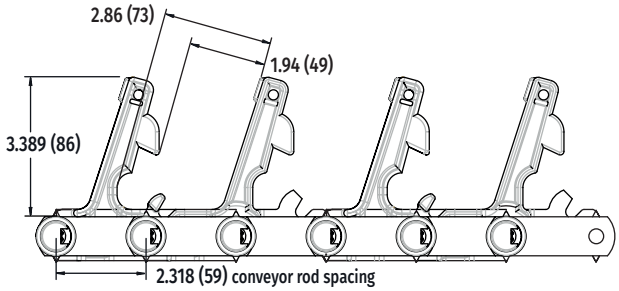
- Optional cross-rods every 4th row available for additional support of heavier ware (oversized ware/mixing bowls) as well as to promote warewashing drainage at optimal angle (hotel pans).



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.

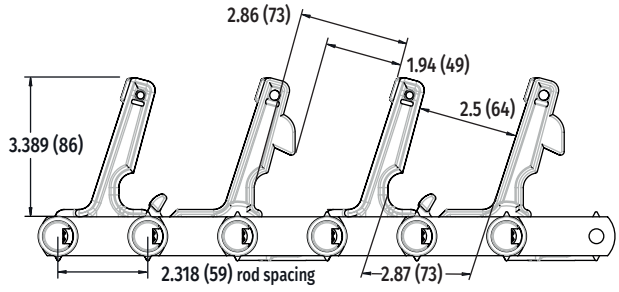
- Optional cross-rods every 4th row available for additional support of heavier ware (oversized ware/mixing bowls) as well as to promote warewashing drainage at optimal angle (hotel pans). Cross-rods can also be used to create stable support for some compartmentalized trays to orient upright through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

As continued product improvement is a policy of Hobart, specifications are subject to change without notice.

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