



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



FT1000e 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 of final rinse consumption per hour, with dual rinse, hinged & insulated doors, 30" 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
- + Digital controls with machine diagnostics
- + Low temperature alert
- + Hinged insulated cabinet-style doors
- + 31" access on prewash, power wash and power rinse chambers; 20" 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. 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" 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 available – contact Hobart for more information
- ☐ Casino packages
- ☐ 6" 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 – FT1000e ENERGY RECOVERY ELECTRIC WITH BLOWER DRYER

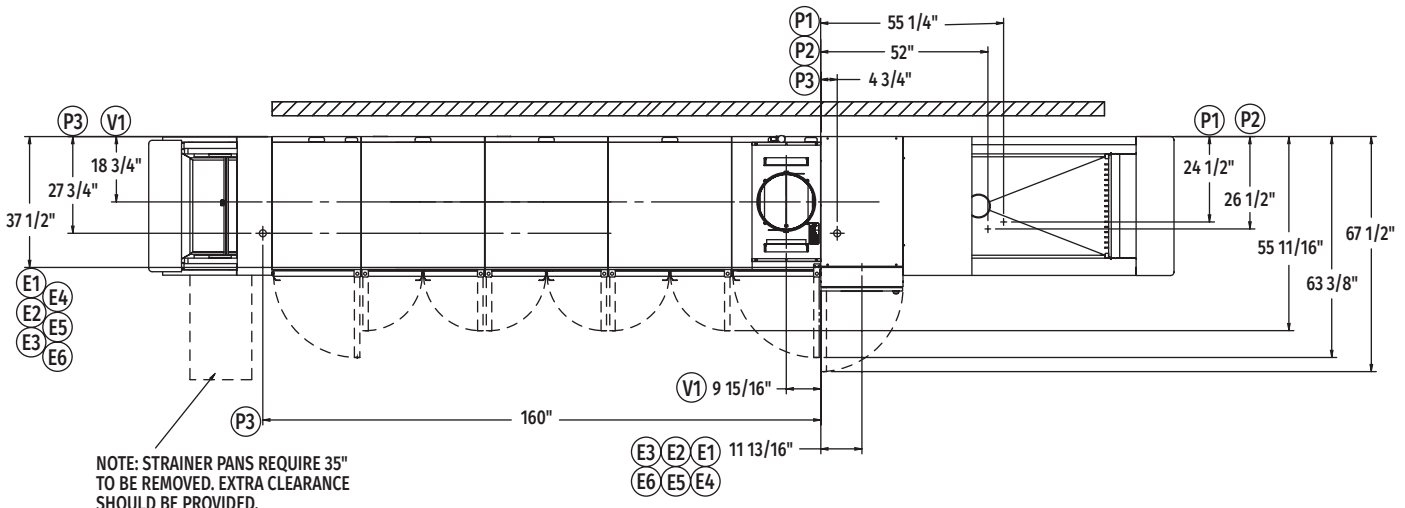
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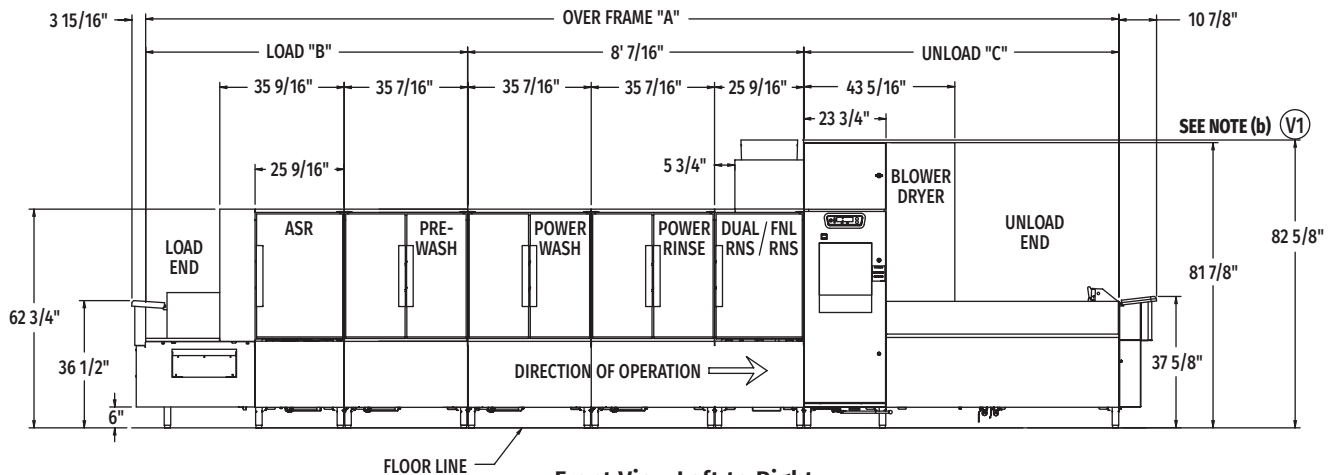
FT1000e ENERGY RECOVERY ELECTRIC WITH BLOWER DRYER

Flight-Type Dishwashing Machine

(Left to Right)



Top View Left to Right

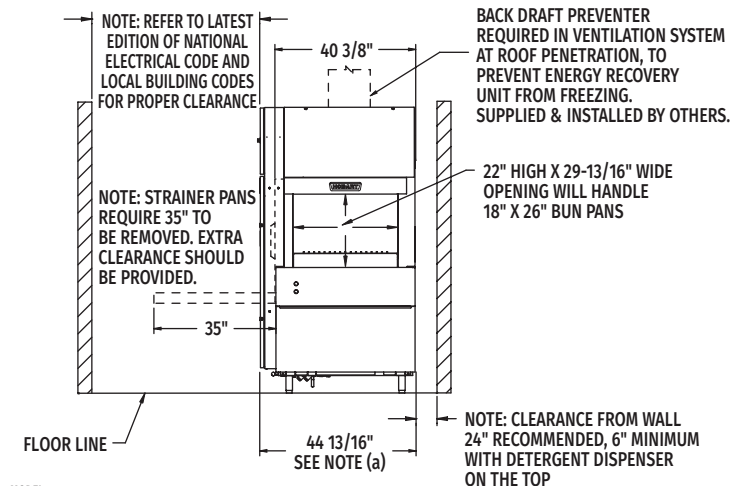


Front View Left to Right

Note: Control box electrical connections – see page 5.

MODEL NO.	"A"	"B"	"C"
FT1023e (7.5'-8'-7.5')	23' 3-1/2"	7' 8-1/2"	7' 6-1/2"
FT1024e (8.5'-8'-7.5')	24' 3-1/4"	8' 8-1/4"	7' 6-1/2"
FT1025e (9.5'-8'-7.5')	25' 3-3/32"	9' 8-3/32"	7' 6-1/2"
FT1025e (7.5'-8'-9')	24' 11-1/4"	7' 8-1/2"	9' 2-1/4"
FT1026e (8.5'-8'-9')	25' 11"	8' 8-1/4"	9' 2-1/4"
FT1027e (9.5'-8'-9')	26' 10-27/32"	9' 8-3/32"	9' 2-1/4"
FT1027e (7.5'-8'-11')	26' 10-7/8"	7' 8-1/2"	11' 1-7/8"
FT1028e (8.5'-8'-11')	27' 10-5/8"	8' 8-1/4"	11' 1-7/8"
FT1029e (9.5'-8'-11')	28' 10-15/32"	9' 8-3/32"	11' 1-7/8"
FT1030e (7.5'-8'-15')	30' 6-3/16"	7' 8-1/2"	14' 9-3/16"
FT1031e (8.5'-8'-15')	31' 5-15/16"	8' 8-1/4"	14' 9-3/16"
FT1032e (9.5'-8'-15')	32' 5-25/32"	9' 8-3/32"	14' 9-3/16"
FT1032e (7.5'-8'-17')	32' 5-3/4"	7' 8-1/2"	16' 8-3/4"
FT1033e (8.5'-8'-17')	33' 5-1/2"	8' 8-1/4"	16' 8-3/4"
FT1034e (9.5'-8'-17')	34' 5-11/32"	9' 8-3/32"	16' 8-3/4"

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

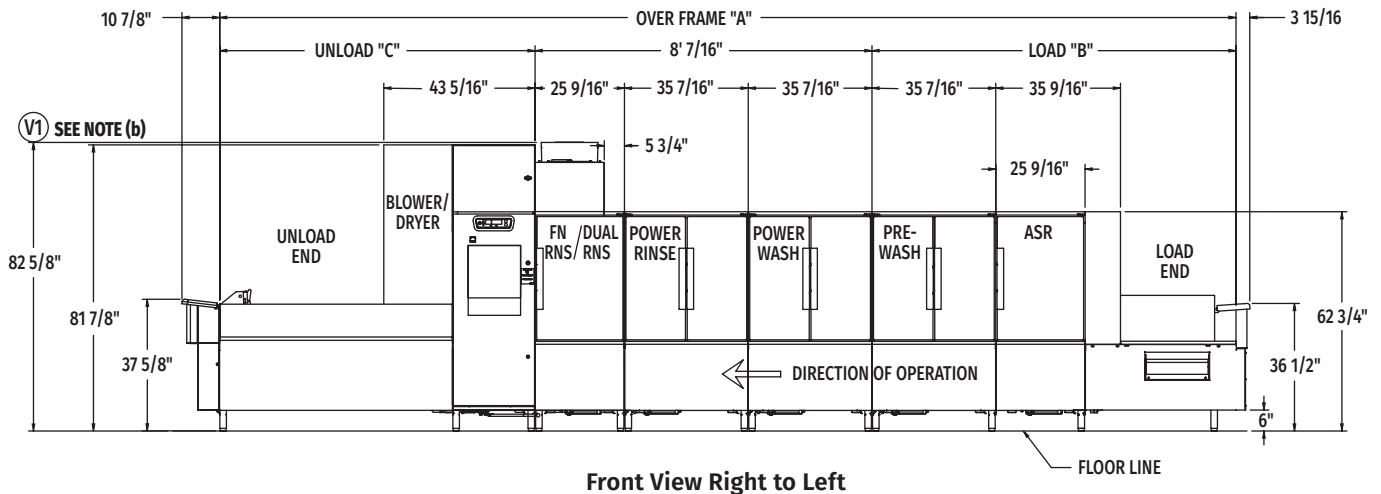
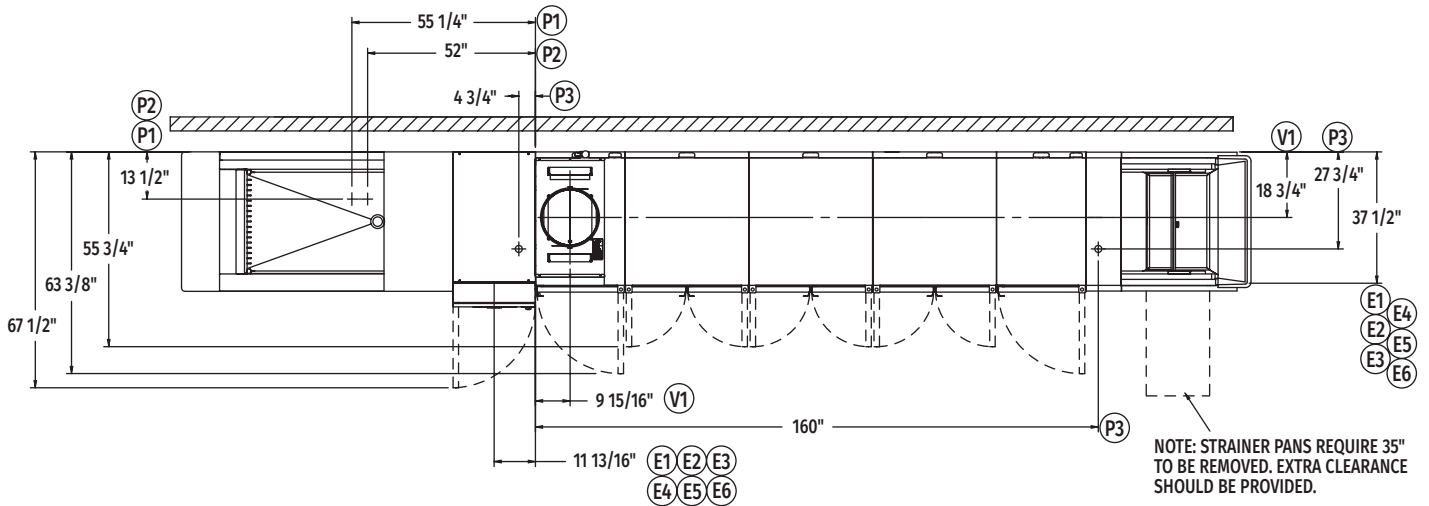


Back/Unload End

MODEL:
FT1000e ENERGY RECOVERY
W/BLOWER DRYER
ELECTRIC
L-R OPERATION
00-562365
REV B



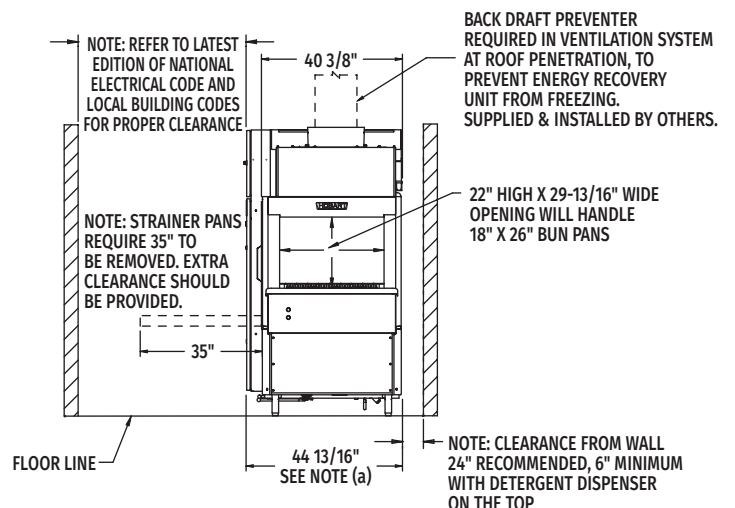
FT1000e ENERGY RECOVERY ELECTRIC WITH BLOWER DRYER Flight-Type Dishwashing Machine (Right to Left)



Note: Control box electrical connections – see page 5.

MODEL NO.	"A"	"B"	"C"
FT1023e (7.5'-8'-7.5')	23' 3-1/2"	7' 8-1/2"	7' 6-1/2"
FT1024e (8.5'-8'-7.5')	24' 3-1/4"	8' 8-1/4"	7' 6-1/2"
FT1025e (9.5'-8'-7.5')	25' 3-3/32"	9' 8-3/32"	7' 6-1/2"
FT1025e (7.5'-8'-9')	24' 11-1/4"	7' 8-1/2"	9' 2-1/4"
FT1026e (8.5'-8'-9')	25' 11"	8' 8-1/4"	9' 2-1/4"
FT1027e (9.5'-8'-9')	26' 10-27/32"	9' 8-3/32"	9' 2-1/4"
FT1027e (7.5'-8'-11')	26' 10-7/8"	7' 8-1/2"	11' 1-7/8"
FT1028e (8.5'-8'-11')	27' 10-5/8"	8' 8-1/4"	11' 1-7/8"
FT1029e (9.5'-8'-11')	28' 10-15/32"	9' 8-3/32"	11' 1-7/8"
FT1030e (7.5'-8'-15')	30' 6-3/16"	7' 8-1/2"	14' 9-3/16"
FT1031e (8.5'-8'-15')	31' 5-15/16"	8' 8-1/4"	14' 9-3/16"
FT1032e (9.5'-8'-15')	32' 5-25/32"	9' 8-3/32"	14' 9-3/16"
FT1032e (7.5'-8'-17')	32' 5-3/4"	7' 8-1/2"	16' 8-3/4"
FT1033e (8.5'-8'-17')	33' 5-1/2"	8' 8-1/4"	16' 8-3/4"
FT1034e (9.5'-8'-17')	34' 5-11/32"	9' 8-3/32"	16' 8-3/4"

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



Back/Unload End

MODEL:
FT1000e ENERGY RECOVERY
W/BLOWER DRYER
ELECTRIC
R-L OPERATION
00-562364
REV B



FT1000e ENERGY RECOVERY ELECTRIC WITH BLOWER DRYER

Flight-Type Dishwashing Machine

(Left to Right)

LEGEND

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

For convenience when cleaning, customer should install water tap near machine with 30 ft. 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.

Recommended building flowing cold water to the dishwasher is 30-35 PSI. If cold water is less than 55°F, 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" 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.

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



FT1000e ENERGY RECOVERY ELECTRIC WITH BLOWER DRYER

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	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 per minute)	4.0 - 8.5
Dishes per Hour	14,316
ASR Tank (U.S. gallons)	7.2
Pre-Wash Tank (U.S. gallons)	40
Wash Tank (U.S. gallons)	40
Rinse Tank (U.S. gallons)	40
Dual Rinse Tank (U.S. gallons)	7.2

Motor Horsepower

Auto Soil Removal	¾
ASR Wash	¾
Pre-Wash Tank	3½
Wash Tank	3½
Rinse Tank	3½
Dual Rinse Tank	¾
Final Rinse	½
Conveyor	¾
Blower Dryer	2

Water Consumption

U.S. Gallons per Hour (maximum use)	58
U.S. Gallons per Minute	0.97

Heating

Tank Heat, Electric	Total tank heat - 50.1 kW (kW regulated) (Wash, Rinse, Dual Rinse)
Blower Dryer (kW)	4.5
Electric Booster (kW)	15

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.

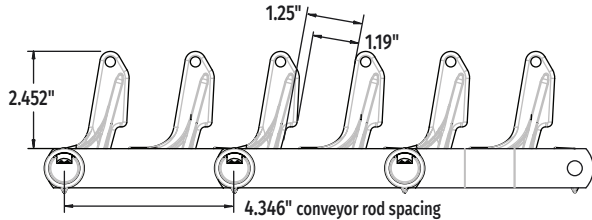
Detail "A-A"
(not to scale)



FT1000e ENERGY RECOVERY ELECTRIC WITH BLOWER DRYER Flight-Type Dishwashing Machine

CONVEYOR TYPE OPTIONS

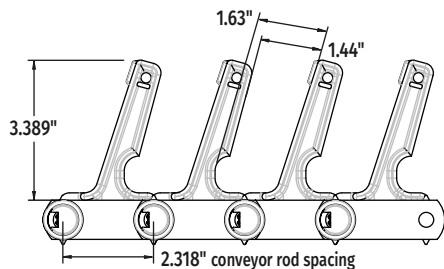
All conveyors provided with standard polypropylene material. Optional stainless steel conveyors available by request.
Please contact your sales representative for stainless steel conveyor options.



STANDARD

Standard Conveyor designed for General Ware including tableware (Plates/Bowls), most serving trays (lip height less than 1 1/4") as well as prep-ware (Hotel & Sheet Pans).

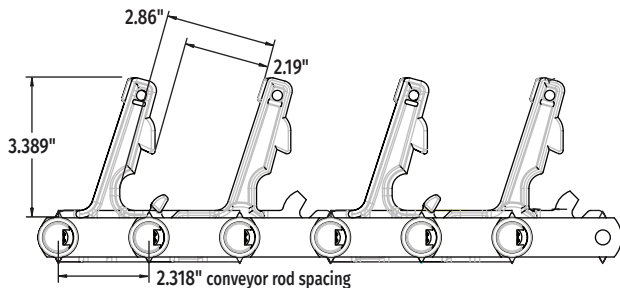
- Optional cross-rods every 4th row available for additional support of heavier ware (oversized ware/mixing bowls) as well as to promote warewashing drainage at optimal angle (hotel pans).



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.

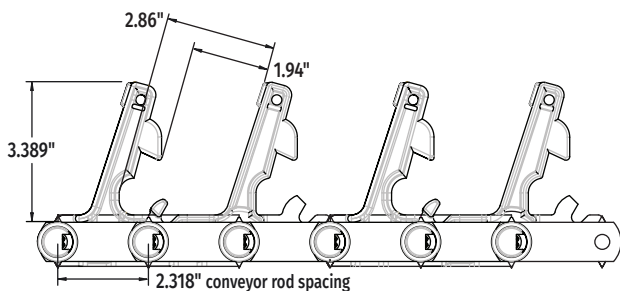
- Optional cross-rods every 4th row available for additional support of heavier ware (oversized ware/mixing bowls) as well as to promote warewashing drainage at optimal angle (hotel pans).



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 3/8" "nose" to secure compartmentalized trays in place.

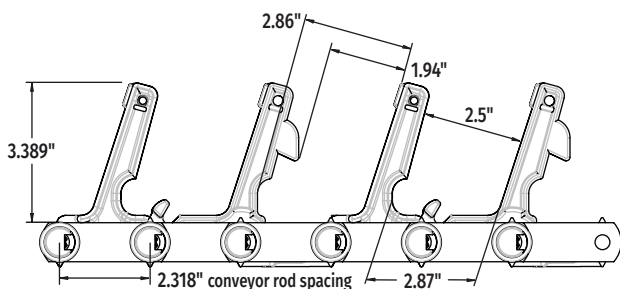
- Optional cross-rods every 4th row available for additional support of heavier ware (oversized ware/mixing bowls) as well as to promote warewashing drainage at optimal angle (hotel pans). Cross-rods can also be used to create stable support for some compartmentalized trays to orient upright through 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 5/8" "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 3/8" "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.