

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



Flight-Type Dishwashing Machine



FT1000e Energy Recovery with Optional Blower Dryer 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. Features include Automatic Soil Removal system (ASR), Complete Delime™ with Delime Notification, Auto Dispensing and Booster Guard™, Energy Recovery, capless wash arms, microprocessor controls, 58 gallons of final rinse consumption per hour, with dual rinse, hinged & insulated doors, and 30" wide conveyor belt.

## STANDARD FEATURES

- + Automatic Soil Removal system (ASR)
- + Complete Delime<sup>™</sup> with Booster Guard<sup>™</sup>, Delime Notification, and Auto Dispensing
- + Energy Recovery
- + Capless wash arms
- + 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
- + Easy to remove stainless steel scrap pans and baskets
- + 30" wide conveyor belt
- + Dual rinse
- Front and rear panels
- + Variable speed conveyor
- + Steam booster heater
- + Configurable drain to load or unload

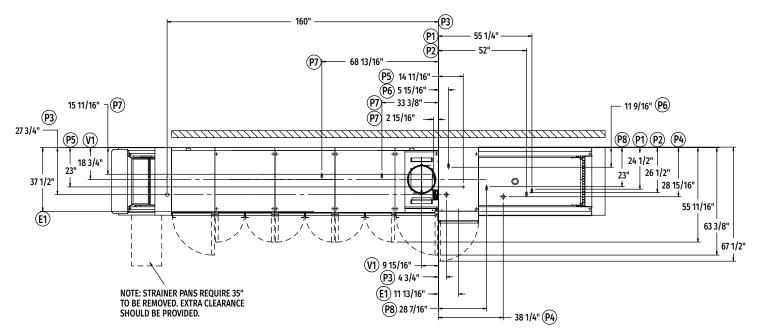
## **OPTIONS & ACCESSORIES** (Available at extra cost)

- Multiple conveyor options
- ☐ Factory mounted circuit breakers
- ☐ 6" higher than standard chamber
- ☐ Flanged feet (field installed)
- ☐ Water hammer arrestor/PRV (field installed)
- Drain water tempering kit (field installed)
- ☐ WS-80 water softener (field installed)
- ☐ Insulated split, vertical slide-up doors
- □ Correctional packages available contact Hobart for more information
- Casino packages

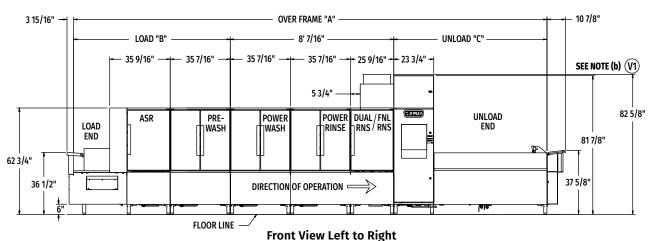
Approved by	Date	Approved by	Date



Flight-Type Dishwashing Machine
(Left to Right)



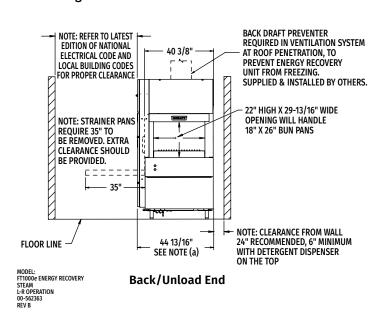
**Top View Left to Right** 



Note: Control box electrical connections - see page 5.

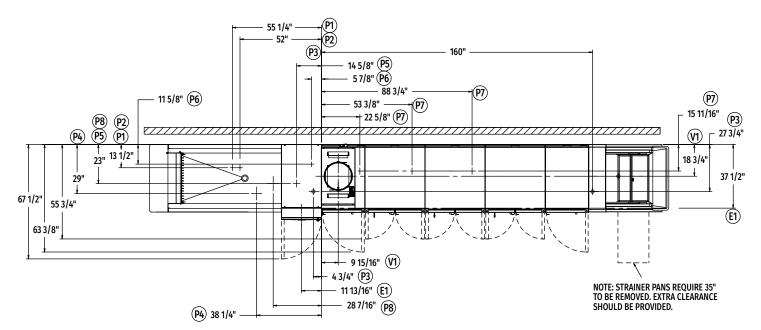
MODEL NO.	"A"	"B"	"C"
FT1021e (7.5'-8'-5.5')	21' 4"	7' 8-1/2"	5' 7"
FT1022e (8.5'-8'-5.5')	22' 3-3/4"	8' 8-1/4"	5' 7"
FT1023e (9.5'-8'-5.5')	23' 3-19/32"	9' 8-3/32"	5' 7"
FT1023e (7.5'-8'-7.5')	23' 3-1/2"	7' 8-1/2"	7' 6-1/2"
FT1024e (8.5'-8'-7.5')	24' 3-1/4"	8' 8-1/4"	7' 6-1/2"
FT1025e (9.5'-8'-7.5')	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"

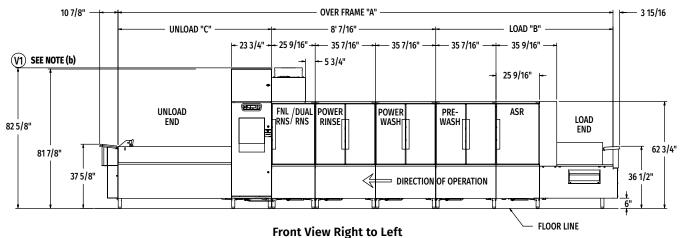




Flight-Type Dishwashing Machine
(Right to Left)



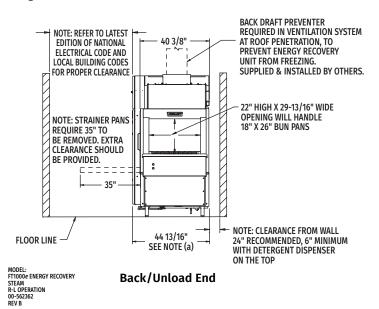
**Top View Right to Left** 



Note: Control box electrical connections - see page 5.

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





Flight-Type Dishwashing Machine (Left to Right)

#### **LEGEND**

	Electrical Connections
E1	Electric connection for 1TB with or without 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.
Р3	Drain connection: Default location is drain to unload. May be drained to load end with field installed kit. 2" FPT, 7" AFF.
P4	Common steam connection (tank heat & steam booster). 1-1/2" FPT, 7" AFF (12-45 PSI flowing pressure).
P5	Steam relief valve (when steam booster option is specified) 1" FPT, must be piped to open drain receiver in the floor. 16-15/16" AFF.
Р6	Hot water relief valve (when steam booster option is specified) 3/4" FPT, must be piped to open drain receiver in the floor. 15-9/16" AFF.
P7	Condensate return, gravity connection (tank heat), bucket type traps furnished, 3 connections. 3/4" FPT, 11" AFF.
P8	Condensate return, gravity connection (when steam booster option is specified), bucket type trap furnished. 3/4" FPT, 4-3/4" 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.

**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.

If steam pressure is less than 12 psi flowing pressure at the dishwasher, contact sales engineering.

## **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.

**Miscellaneous Notes:** For optimal performance, Hobart recommends maintaining a dishroom temperature of 65°F (18°C) or higher, as lower temperatures may hinder the machine's capacity to operate effectively (with lower performance as ambient temperature decreases).

Heat Gain to S	pace (BTU/Hr.)
Latent	Sensible
87,200	37,400

Page 4 of 6 FT1000e ENERGY RECOVERY STEAM



Flight-Type Dishwashing Machine
(Right to Left)

# SERVICE CONNECTIONS <u>WITH AND</u> <u>WITHOUT CIRCUIT BREAKERS</u> (SINGLE POINT ELECTRICAL CONNECTION)

E1 (1)		s & Controls (1TB) nnection as Show	
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

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

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Detail "A-A" (not to scale)

## **SPECIFICATIONS**

## Capacities Conveyor Speed (feet per minute) . . . . . . . . 4.0 - 8.5 Dishes per Hour..... 14,316 Rinse Tank (U.S. gallons)......40 **Motor Horsepower** Final Rinse ......½ **Water Consumption** U.S. Gallons per Minute......0.97 **Steam Consumption - Tank Heat** Pounds per Hour (maximum) . . . . . . . . . . . . . . . . . . 215 Regulated - based on 12 to 45 PSI steam at the machine. (150°F wash minimum - 160°F rinse minimum -160°F dual rinse minimum) **Steam Consumption - Booster Heater** Pounds per Hour (maximum) . . . . . . . . . . . . . . . . 42 If used on 20 PSI steam, 110°F incoming water raised to 185°F (75°F rise) (180°F final rinse minimum) Shipping Weight (approximate). . . . Varies by individual model (Consult your Hobart representative) Crated Dimensions . . . . . . . . Varies by individual model

(Consult your Hobart representative)

FT1000e ENERGY RECOVERY STEAM Page 5 of 6

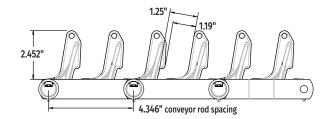


Flight-Type Dishwashing Machine

## **CONVEYOR TYPE OPTIONS**

All conveyors provided with standard polypropylene material. Optional stainless steel conveyors available by request.

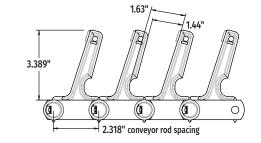
Please contact your sales representative for stainless steel conveyor options.



#### **STANDARD**

Standard Conveyor designed for General Ware including tableware (Plates/Bowls), most serving trays (lip height less than 1½") as well as prep-ware (Hotel & Sheet Pans).

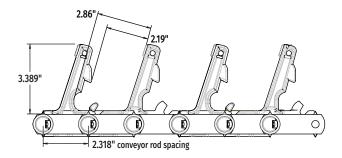
 Optional cross-rods every 4th row available for additional support of heavier ware (oversized ware/mixing bowls) as well as to promote warewashing drainage at optimal angle (hotel pans).



## **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.

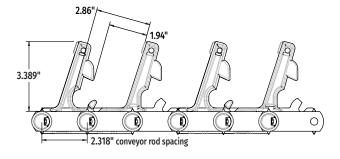
Optional cross-rods every 4th row available for additional support
of heavier ware (oversized ware/mixing bowls) as well as to promote
warewashing drainage at optimal angle (hotel pans).



## **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.

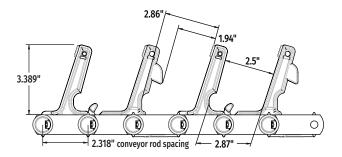
Optional cross-rods every 4th row available for additional support
of heavier ware (oversized ware/mixing bowls) as well as to promote
warewashing drainage at optimal angle (hotel pans). Cross-rods can
also be used to create stable support for some compartmentalized
trays to orient upright through dishmachine.



#### **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 %" "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 ¾" "nose" to support the largest insulated compartmentalized trays, commonly used in correctional settings. The Tivoli conveyor comes standard with crossrods 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.