

Project		
AIA #	SIS #	
Item #	Quantity	C S I Section 11/1000



**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™ with Booster Guard™, 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 chamber; 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 and wash 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
- + Electric booster heater
- + Configurable drain to load or unload

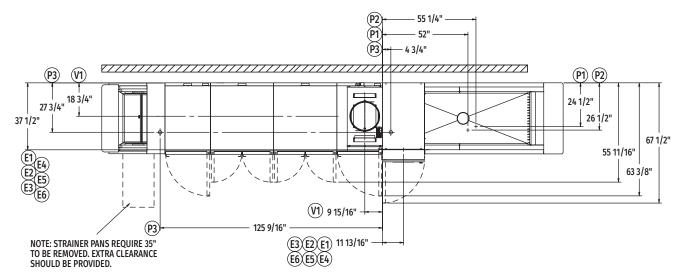
### **OPTIONS & ACCESSORIES** (Available at extra cost)

- 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

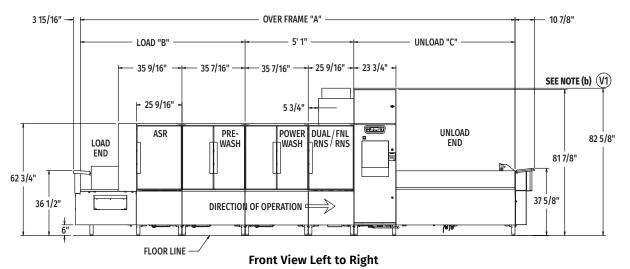
Approved by	Date	Approved by	Date



Flight-Type Dishwashing Machine
(Left to Right)



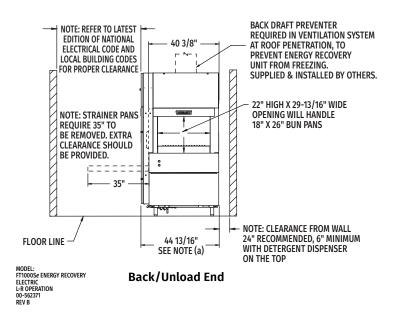
**Top View Left to Right** 



Note: Control box electrical connections - see page 5.

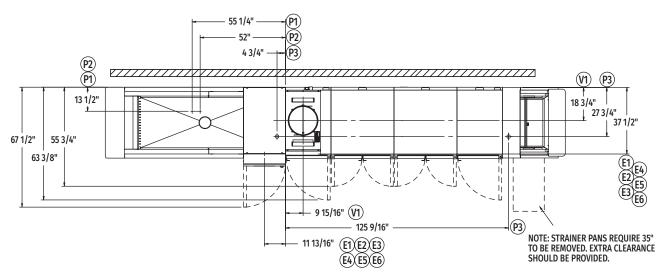
MODEL NO.	"A"	"B"	"C"
FT1018Se (7.5'-5'-5.5')	18' 4-9/16"	7' 8-1/2"	5' 7"
FT1019Se (8.5'-5'-5.5')	19' 4-5/16"	8' 8-1/4"	5' 7"
FT1020Se (9.5'-5'-5.5')	20' 4-5/32"	9' 8-3/32"	5' 7"
FT1020Se (7.5'-5'-7.5')	20' 4-1/16"	7' 8-1/2"	7' 6-1/2"
FT1021Se (8.5'-5'-7.5')	21' 3-13/16"	8' 8-1/4"	7' 6-1/2"
FT1022Se (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: Overall length of machine is Dimension "A" + 14-13/16"

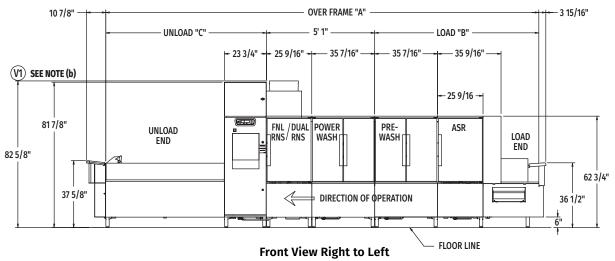




Flight-Type Dishwashing Machine
(Right to Left)



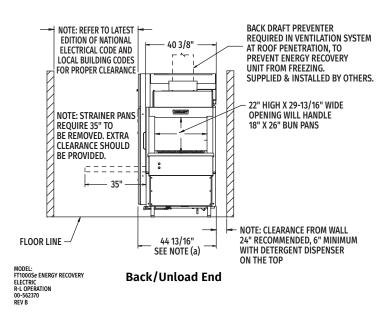
**Top View Right to Left** 



Note: Control box electrical connections - see page 5.

MODEL NO.	"A"	"B"	"C"
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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: 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.
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.
<b>E</b> 5	Electric connection for 5TB without circuit breakers. 79-1/8" AFF.
<b>E6</b>	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.
Р3	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 <u>WITH CIRCUIT BREAKERS</u> (2 CONNECTIONS)

Motors, Controls & Booster Heat (1TB) (1) Service Connection as Shown Below				
V	oltage	Rated Amps	Minimum Supply Circuit Ampacity	Maximum Protective Device
20	8/60/3	70.7	90	90
24	0/60/3	65.2	90	90
48	30/60/3	36.1	50	50
60	00/60/3	28.7	40	40
Wash, Dual Rinse Heat (2TB) (1) Service Connection as Shown Below				
<b>E6</b>	(1			
	(1 oltage			
V		) Service C Rated	onnection as Show Minimum Supply Circuit	Maximum Protective
V 20	oltage	) Service C Rated Amps	onnection as Show Minimum Supply Circuit Ampacity	Maximum Protective Device
20 24	oltage 08/60/3	Rated Amps 125.7	onnection as Show Minimum Supply Circuit Ampacity 175	Maximum Protective Device 175

**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.

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).

## SERVICE CONNECTION <u>WITH CIRCUIT BREAKERS</u> (SINGLE POINT ELECTRICAL CONNECTION)

E1	Wash & Booster Heat (1) Single Point Connection as Shown Below			
V	/oltage	Rated Amps	Minimum Supply Circuit Ampacity	Maximum Protective Device
48	80/60/3	90.6	125	125
60	00/60/3	72.3	100	100

Page 4 of 6 FT1000Se ENERGY RECOVERY ELECTRIC



Flight-Type Dishwashing Machine (Right to Left)

## SERVICE CONNECTIONS <u>WITHOUT CIRCUIT</u> <u>BREAKERS</u> (5 CONNECTIONS)

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0110110,	
E1 (	Moto 1) Service C	ors & Controls (1TB) onnection as Show	n 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		Tank Heat, Wash (2	
(:	1) 17.3 kW C	onnection as Show	n 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 ,		Tank Heat, Wash (3	
(:	1) 17.3 kW C	onnection as Show	n 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 (1) 10	۱ X kW Servi)	Dual Rinse (4TB) ce Connection as S	hown Below
Voltage	Rated Amps	Minimum Supply Circuit Ampacity	Maximum Protective Device
20010012	20.7		

E4	(1) 10.7 kW Service Connection as Shown Below			
V	oltage	Rated Amps	Minimum Supply Circuit Ampacity	Maximum Protective Device
20	8/60/3	29.7	40	40
24	0/60/3	25.7	35	35
48	30/60/3	12.9	20	20
60	00/60/3	10.3	15	15

<b>E</b> 5	Electric Booster (5TB) (1) 15 kW Service Connection as Shown Below			
V	oltage	Rated Amps	Minimum Supply Circuit Ampacity	Maximum Protective Device
20	08/60/3	41.6	60	60
24	0/60/3	36.1	50	50
48	30/60/3	18.0	25	25
60	00/60/3	14.4	20	20

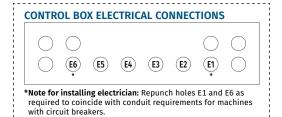
Heat Gain to Space (BTU/Hr.)	
Latent	Sensible
65,900	28,200

### **SPECIFICATIONS**

### **Capacities**

capacities
Conveyor Speed (feet per minute) 4.0 - 6.3
Dishes per Hour
ASR Tank (U.S. gallons)7.2
Pre-Wash Tank (U.S. gallons)
Wash Tank (U.S. gallons)
Dual Rinse Tank (U.S. gallons)
Motor Horsepower
Auto Soil Removal
ASR Wash
Pre-Wash Tank
Wash Tank3½
Dual Rinse Tank
Final Rinse½
Conveyor
Water Consumption
U.S. Gallons per Hour (maximum use)
U.S. Gallons per Minute
Heating
Tank Heat, ElectricTotal tank heat - 45.3 kW
(kW regulated) (Wash, Dual Rinse)
Electric Booster (kW)
Shipping Weight (approximate) Varies by individual model
(Consult your Hobart representative)
<b>Crated Dimensions</b> 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



Detail "A-A" (not to scale)

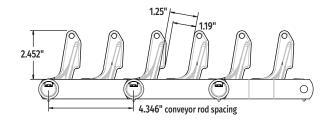


Flight-Type Dishwashing Machine

### **CONVEYOR TYPE OPTIONS**

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

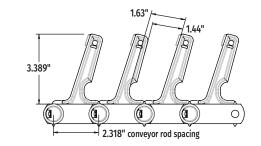
Please contact your sales representative for stainless steel conveyor options.



### **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).

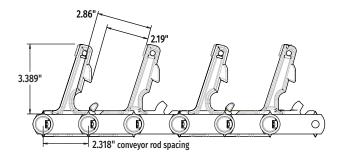
 Optional cross-rods every 4th row available for additional support of heavier ware (oversized ware/mixing bowls) as well as to promote warewashing drainage at optimal angle (hotel pans).



### **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.

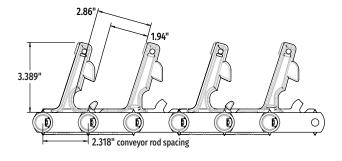
Optional cross-rods every 4th row available for additional support
of heavier ware (oversized ware/mixing bowls) as well as to promote
warewashing drainage at optimal angle (hotel pans).



### **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.

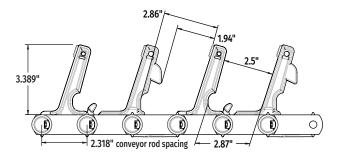
Optional cross-rods every 4th row available for additional support
of heavier ware (oversized ware/mixing bowls) as well as to promote
warewashing drainage at optimal angle (hotel pans). Cross-rods can
also be used to create stable support for some compartmentalized
trays to orient upright through dishmachine.



#### **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.