



MODEL TBCCT-XXXE

SELF-CONTAINED ELECTRIC SOUS-VIDE TANK

GENERAL DESCRIPTION

The TUCS SELF-CONTAINED ELECTRIC SOUS-VIDE TANK is a multipurpose machine to quickly chill packaged hot liquids and/or automatically cook and chill vacuum packaged non pumpable products. The machine is equipped with an integral chilled water generator coupled to a remote refrigeration compressor thereby eliminating bulky problematic ice builders, falling film chillers or chilled glycol systems. This unit operates on 24KW electric at the voltage and phase selected by the consultant. The design incorporates a tank "floor" which rises to bring chilled pouches and casings out of the chill water for easy removal. The floor can also be lowered and raised incrementally for the easy loading and unloading of products for cook tank processing thereby eliminating the necessity for expensive, space consuming hoist monorail systems or jib style cranes.



Tucs Model TBCCT-50E Sous-Vide Tank

CERTIFICATIONS

Pending



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ITEM NO.

PROJECT

QUANTITY

AIA NO.

CAPACITIES

Available in 50 & 100 nominal gallon batch chill capacity (500 lbs. & 1000 lbs. cook tank capacity) respectively.

CONSTRUCTION & FEATURES

304L stainless steel tank mounted on adjustable legs with leg pads ■ Hinged, powered, lockable cover ■ Insulated tank wall and floor with urethane foam to prevent sweating and condensation ■ Heating via electric self-contained elements ■ Push button raising and lowering of open grid floor for easy removal of cooled product and for easy loading of product to be cooked ■ High volume air pump agitation of tank water for effective and gentle tumble chilling ■ Removable racks with 17 angle guides and 7 wire shelves (standard) for holding product when in cook mode ■ Does not require ventilation hood in most locations (check local code)

AIR AGITATION

¾ to 1 HP high volume, low pressure air pump ■ Dual, interconnected stainless steel air bubbler lines running full length of tank ■ Mounted and prewired to control

COOLING EVAPORATORS

Stainless steel evaporator coils designed for Freon or ammonia refrigerant ■ Evaporator coils easy to view and clean

CONTROLS

Programmable Logic Controller (PLC) contained within NEMA 4X control box ■ Touch screen operator interface with menu driven operation ■ Batch chill mode ■ Display of process water temperature ■ Display of process time ■ Cook-Chill mode ■ Mode selection: cook to time, cook to probe temperature ■ Digital input and display of process water temperature, product temperature (probe) cook time ■ Includes 100 probe seals ■ Electronic temperature recording

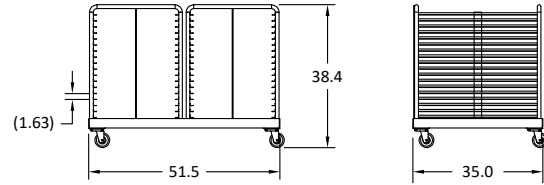
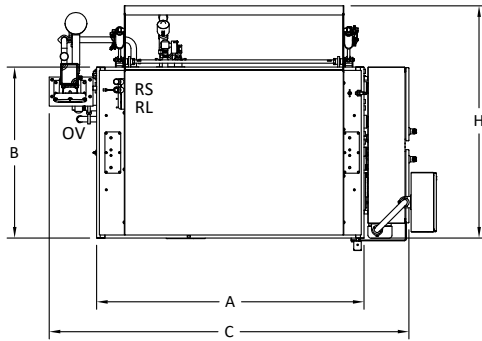
OPTIONS

- Tank divider for separating tumble chill batches
- Dial up alarm system
- Air or water-cooled remote compressor/condensers for evaporator coils (includes DX coils and solenoid)

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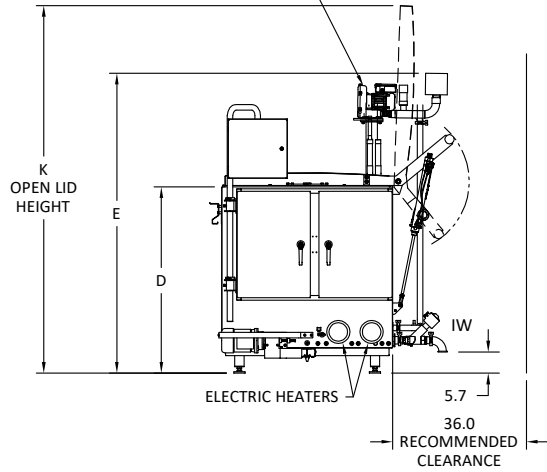
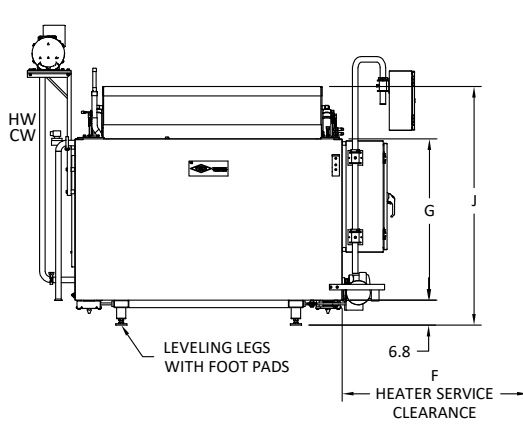
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SINGLE DOLLY W/TWO SHELVING RACKS

1 SHELVING RACK FOR EACH 50 GALLONS OF TANK PRODUCT CAPACITY
17 SHELVES WITH 1.05" BETWEEN EACH SHELF

3/4 HP BLOWER FOR AGITATION CAN BE MOUNTED ABOVE THE CEILING ACOUSTICAL TILES TO REDUCE NOISE



NOTES:

1. SHOWN WITH CONTROL ON RIGHT SIDE. LEFT SIDE AVAILABLE.
2. DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE - CHECK WITH FACTORY.
3. ALLOW 36" MINIMUM CLEARANCE IN FRONT OF CONTROL PANEL.
4. REFRIGERATION CONNECTION SIZES SHOWN ARE TYPICAL FROM FACTORY. ALTERNATE CONNECTION SIZES ARE AVAILABLE UPON REQUEST.
5. 3' FLEXIBLE HOSE CONNECTIONS INCLUDED FOR CA AND PW. INSTALLER MUST PROVIDE STAINLESS ELBOWS OR STREET ELBOWS WHEN MAKING FINAL CONNECTIONS.
6. TYPICAL REFRIGERATION COIL QUANTITIES SHOWN MAY CHANGE TO ACCOMMODATE REFRIGERANT SUPPLY.
7. CUSTOMER TO PROVIDE REGULATED WATER PRESSURE NOT TO EXCEED 100 PSI.

RECOMMENDED CLEARANCES

RIGHT HAND TANK	
PANEL SIDE	DIMENSION F
BACK SIDE	36"
LEFT SIDE	12"

COMMON UTILITY CONNECTIONS

SIZE	COMPR. AIR 10 CFM @ 90 PSI	HOT POTABLE WATER @ 100 PSI MAX	COLD POTABLE WATER @ 100 PSI MAX	INDIRECT WASTE	OVERFLOW
CAPACITY	CA	CW	CW	IW	OV
50-100	1/4" QD	3/4" NPT	3/4" NPT	2" NPT	1 1/2" NPT

DIMENSIONS

SIZE	A	B	C	D	E	F	G	H	J	K
50	48	47	72	51	81	42	44	64	65	100
100	71	47	96	51	81	50	44	64	65	100

UTILITY REQUIREMENTS

SIZE		ELECTRIC OPTIONS			HEAT	REFRIGERATION			
PRODUCT CAPACITY (GALLONS)	SOLID MUSCLE POUNDS	480V/3PH	240V/3PH	208V/3PH	TOTAL BTU/hr	TOTAL BTU/hr @25°F SUCTION	COIL QUANTITY PER UNIT	LIQUID	SUCTION
50	400-500	32.6A	64.1A	57.4A	81,888	70,000	1	5/8"	1 3/8"
100	800-1,000	47.0A	93.0A	82.5A	122,832	120,000	1	5/8"	1 3/8"