NEW

BOCK™
WATER HEATERS

SWING TANK **PLUS**

Designed for use in Commercial Heat Pump Water Heating Systems as a Swing Tank for Single-Pass or Multi-Pass Heat Pump Systems

PLUS – *a means to augment energy input for multi-pass heat pumps when ambient temperature < 40°F or as an emergency backup unit.*

Featuring:

- Step modulation between three inputs – Min, Mid, or Max
  - At call-for-heat, the initial input is based on (supplied) outdoor temperature sensor reading (≥40°F = Min; <40°F and ≥24°F = Mid; <24°F = Max)
  - Attempts to recover tank temperature at lowest electric resistance input
  - Additional input added if sensor continues to drop from setpoint
- Two input configurations available
  - 12.1 / 24 / 36kW
  - 18 / 36 / 49.5kW
- 208, 240, or 480 VAC
- 50 and 119 gallon models
- ASME Section IV HLW – available on 119 gallon model
- Versatile Piping Options
  - (5) 2" NPT connections (50 gal)
  - (5) 2.5" NPT connections (119 gal)
  - Optional upper side connections (extra pipe nipples supplied)
- Three thermowells for temperature monitoring (up to ø0.38" sensor)
- Two Operating Modes – Swing Tank Plus Mode or Standard Electric Water Heater Mode (for emergency backup only)
- BACnet MSTP standard
- Alarm Out (normally open, volt-free dry contact)
- Enable/Disable (with factory jumper)
- Dip switches to limit maximum input
- 182°F maximum setpoint
- AHRI Certified
- UL listed
  - UL 1453 – Electric Booster and Commercial Storage Tank Water Heaters
  - NSF 372 and NSF 5
- 5-year limited tank warranty
- **Made in the USA**

ELECTRITHERM™
SWING TANK **PLUS**

BUILT LIKE A BOCK

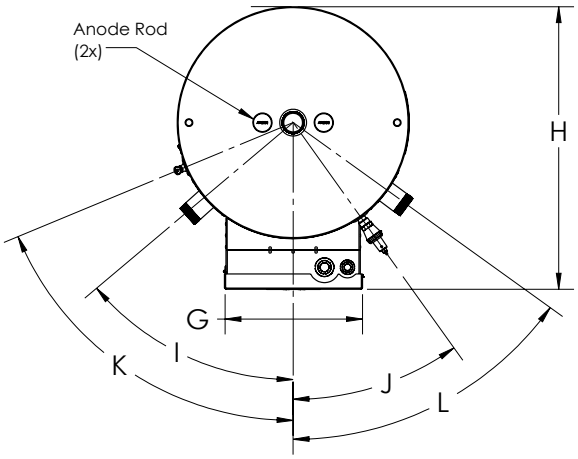
BOCK

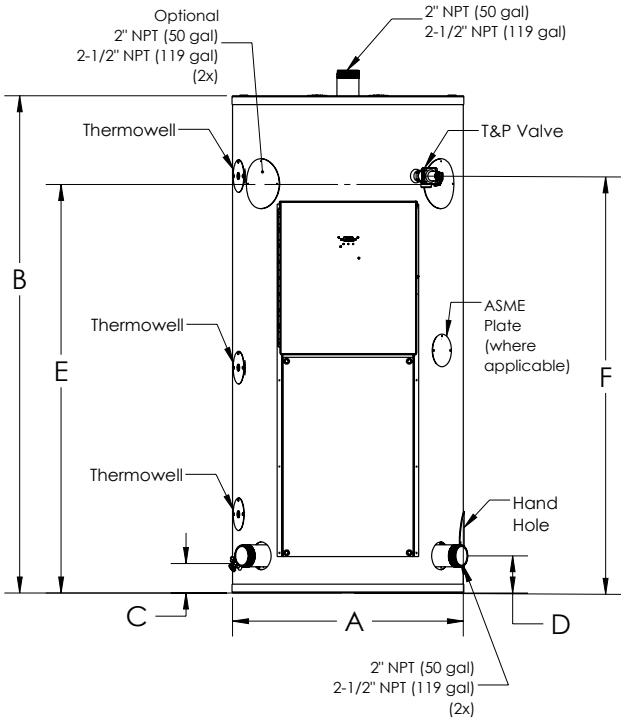
ELECTRITHERM™ SWING TANK PLUS

Capacities and Dimensions

Model	Nominal Capacity (U.S. Gal.)	Actual Storage (U.S. Gal.)	Dimensions (Inches)								(Degrees)				Shipping Weight (lbs.)
			A	B	C	D	E	F	G	H	I	J	K	L	
SWP050-*#	50	46	24	52.95	3.91	4.79	41.41	41.91	17.87	29.89	89	57	62	89	275
SWP119-*#	119	108	30	64.82	3.79	4.79	53.35	55.91	17.87	36.97	49	36	68	54	525
SWP119-A-*#	119	108	30	64.82	3.79	4.79	53.35	54.35	17.87	36.97	49	36	68	54	550

* Denotes input configuration (kW) with a number, *see Input Designations Table*
\# Denotes voltage (V) with a letter, *see Voltage Designations Table*





Input and Recovery Rate

Input Configuration	Number of Elements ON	Rated Input (kW)	Rated Input (BTU/hr)	Element Rating (kW)			Recovery (GPH) at Temperature Rise				
				Bottom Row	Middle Row	Top Row	10°F	15°F	80°F	90°F	100°F
12.1 / 24 / 36	3	12.1	41,285	4.0	OFF	OFF	486	324	61	54	49
	6	24.0	81,888	4.0	4.0	OFF	963	642	120	107	96
	9	36.0	122,832	4.0	4.0	4.0	1,445	963	181	161	145
18 / 36 / 49.5	3	18.0	61,416	6.0	OFF	OFF	723	482	90	80	72
	6	36.0	122,832	6.0	6.0	OFF	1,445	963	181	161	145
	9	49.5	168,894	6.0	6.0	4.5	1,987	1,325	248	221	199

Input Designations

	Input Configurations (kW)	
	12.1 / 24 / 36	18 / 36 / 49.5
Number	1	2

Voltage Designations

	Voltage (V)			
	208	240	277	480
Letter	A	B	n/a	D

Amperage and Overcurrent Protection

Input (kW)	208 V				240 V				480 V			
	1 ø		3 ø		1 ø		3 ø		1 ø		3 ø	
	Full Load Current (Amps)	Overcurrent Protection* (Amps)	Full Load Current (Amps)	Overcurrent Protection* (Amps)	Full Load Current (Amps)	Overcurrent Protection* (Amps)	Full Load Current (Amps)	Overcurrent Protection* (Amps)	Full Load Current (Amps)	Overcurrent Protection* (Amps)	Full Load Current (Amps)	Overcurrent Protection* (Amps)
12.1	58.2	80	33.6	45	50.4	70	29.1	40	25.2	35	14.6	20
18.0	86.5	110	50.0	70	75.0	100	43.3	60	37.5	50	21.7	30
24.0	115.4	150	66.6	90	100.0	125	57.7	80	50.0	70	28.9	40
36.0	173.1	225	99.9	125	150.0	200	86.6	110	75.0	100	43.3	60
49.5	238.0	300	137.4	175	206.3	300	119.1	150	103.1	150	59.5	80

* Denotes recommended values, always follow local codes.

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