



Job Name		
Location		
Arch./Engr		
Wholesaler		
Mech. Contractor		
Model No.		
Voltage		
kW Input		
Recovery Rate in GPH	°F Rise	
Notes		
Designed for use in Commercial Heat		

Designed for use in Commercial Heat Pump Water Heating Systems as a swing tank for singlepass or multi-pass heat pump systems.

#### PLUS

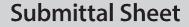
- A means to augment energy input for multi-pass heat pumps when ambient temperature < 40°F
- An emergency backup unit in a single-pass or multi-pass system

#### 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 = Med; <24°F = Max)</li>
  - Attempts to recover tank temperature at lowest electric resistance input
  - Additional input added if sensor continues to drop from setpoint
- Two input configurations available
  - o 12.1 / 24 / 36kW
  - o 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
  - o (5) 2" NPT connections (50 gal)
  - o (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 (w/ 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







K (deg) L (deg)

89

54

54

Shipping

Weight

(lbs)

275

525

550



#### **Dimensions and Capacities** Nominal Actual Storage Storage Model A (in) B (in) C (in) D (in) E (in) F (in) G (in) H (in) I (deg) J (deg) Capacity Capacity (gallons) (gallons) SWP050-\*# 50 46 24 52.95 3.91 4.79 41.41 41.91 17.87 29.89 89 57 SWP119-\*# 119 108 30 64.82 3.79 4.79 53.35 55.91 17.87 36.97 49 36 SWP119-A-\*# 119 108 30 64.82 3.79 4.79 53.35 54.35 17.87 36.97 49 36 denotes input configuration (kW) with a number, see Input Designations table Input Designations # denotes voltage (V) with a letter, see Voltage Designations table Optional 2" NPT (50 gal) 2" NPT (50 gal) 2-1/2" NPT (119 gal) Number 2-1/2" NPT (119 gal) (2x) T&P Valve Thermowell ٣. В Anode Rod (2x) ASME Plate Thermowell Е (where (

applicable)

Hand Hole

D

Ć

(2x)

2" NPT (50 gal) 2-1/2" NPT (119 gal)

Α

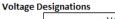
F

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

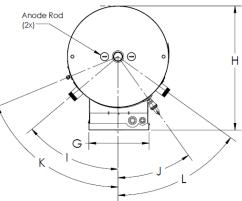
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68

68



	Voltage (V)						
	208	240 277 480					
Letter	Α	В	n/a	D			



#### Input and Recovery Rate

Thermowell

С

0

**D** 

Input	Number of	Rated	Rated	Element Rating (kW)		Recovery (GPH) at Temperature Rise					
Configuration	Elements ON (kW)		Input (BTU/hr)	Bottom Row	Middle Row	Top Row	10°F	15°F	80°F	90°F	100°F
	3	12.1	41,285	4.0	OFF	OFF	486	324	61	54	49
12.1 / 24 / 36	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
	3	18.0	61,416	6.0	OFF	OFF	723	482	90	80	72
18 / 36 / 49.5	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

**Amperage & Overcurrent Protection** 

		20	8 V		240 V			480 V				
		1φ		3ф		1φ		3 ф		1φ		3ф
Input (kW)	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.





#### **Location Requirements**

The water heater must be installed indoors. Locate the water heater as close as practical to the water piping system and leave sufficient clearances for servicing the heater. This water heater may be installed on combustible flooring. DO NOT install this water heater on carpeting.

### **Clearance From Combustible Materials**

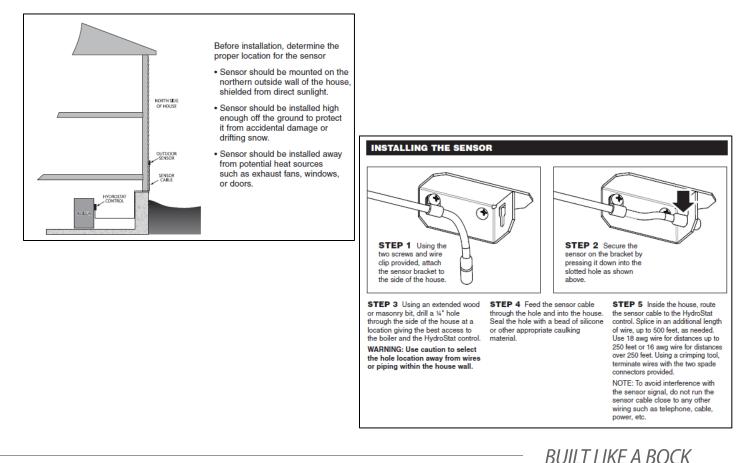
Тор	Sides	Front	Rear
0"	0"	0"	0"

#### **Recommended Service Clearances**

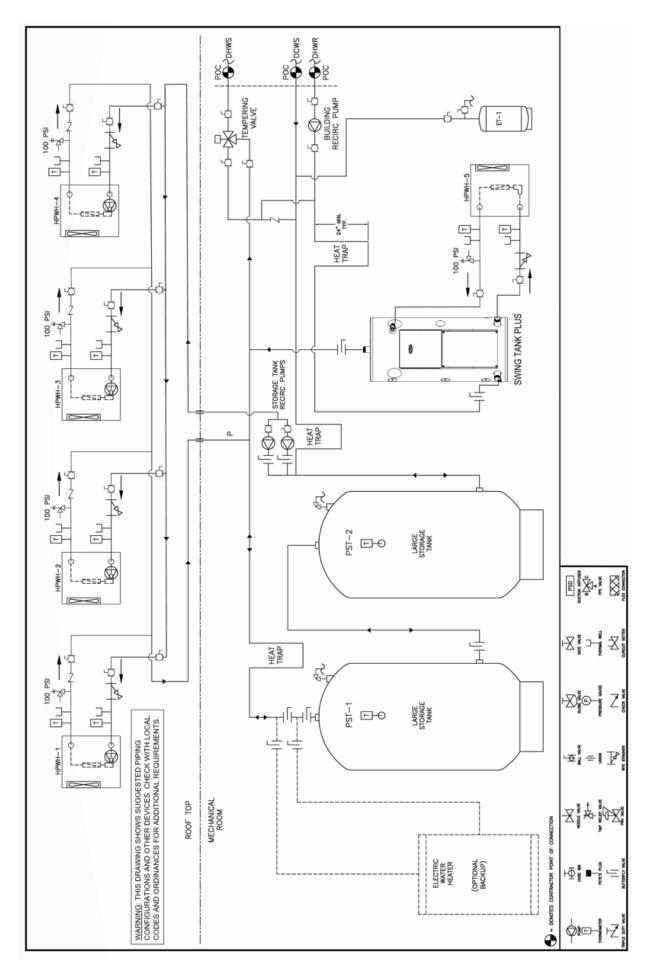
Тор	Sides (non-piping)	Side (Hand Hole)	Front	Rear
36"	4"	36"	24"	0"

# **Outdoor Temperature Sensor**

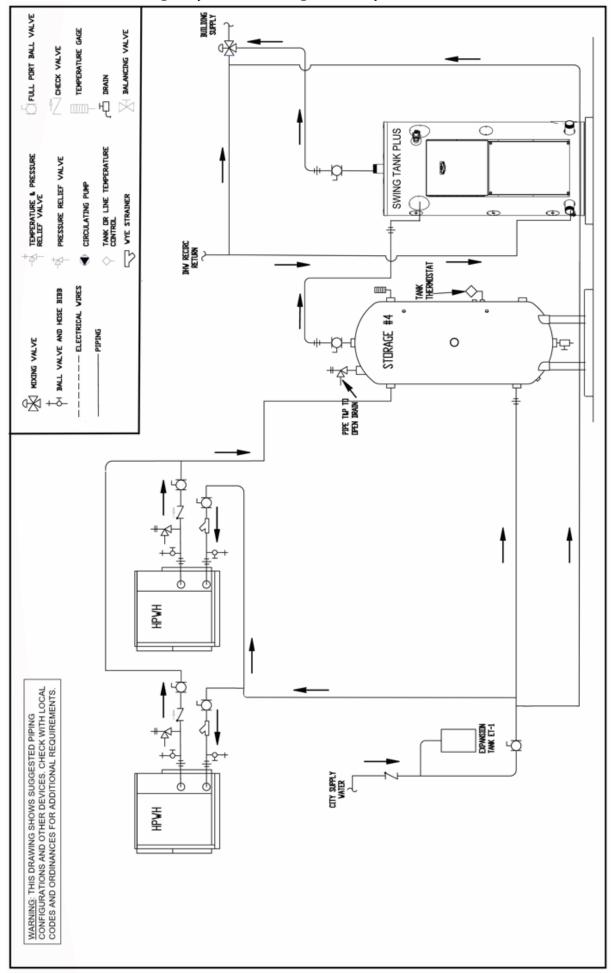
Factory supplied, Hydrolevel Model OS-100 Outdoor Sensor Kit

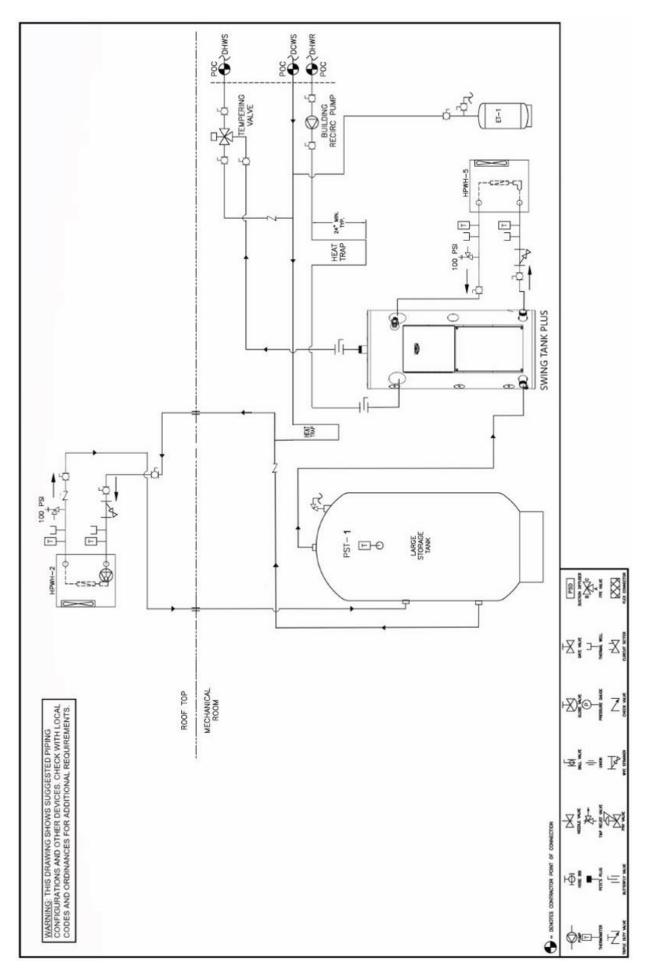


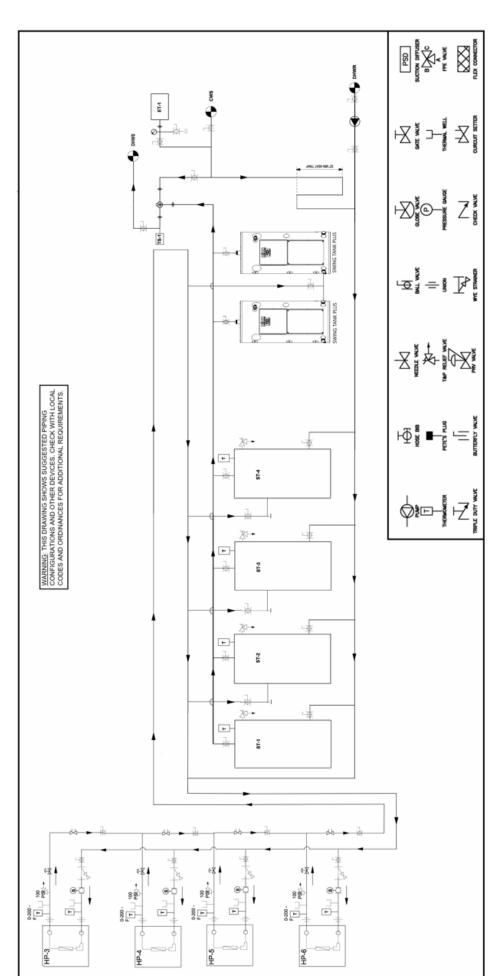
# Swing Tank in Single-Pass System



# "Low Ambient Emergency Heat" in Single-Pass System







# Augmenting Energy Input in Multi-Pass System