

TransFlow Model

Indirect Fired Water Heater

35-119 Gallon Capacities

Features

Heavy Duty Construction

- Hydrastone cement lining provides long tank life
- ✓ Copper-silicon tappings cannot rust or corrode
- ✓ High impact composite jacket cannot rust or corrode and eliminates damage

High Efficiency

✓ 2" thick polyurethane foam insulation reduces standby heat loss providing the industry's highest efficiency heater.

Advanced Heating Coil

- ✓ Heating coil can be easily removed for simple maintenance
- ✓ Heavy gauge copper fin tube coil provides maximum heat transfer

Applications

- Residential
- Office BuildingsSchools
- Industrial FacilitiesCommercial Buildings





The Hubbell TransFlow Water heater uses Boiler Water as the source for heating potable water.



Utilize Existing Boiler Water Supply To Make Hot Water

The Hubbell T Model water heater utilizes an existing supply of boiler water to heat domestic potable water. The Transflow model storage tank is fitted with a specially designed, high efficiency heating coil which transfers heat from the boiler water to the domestic water in the tank. It's advanced design has no moving parts and does not require any electrical connections, while the high quality materials used in construction of its tank and heating coil ensures long service life. When you specify and install a Hubbell Transflow water heater, you will have confidence in knowing that the owner will be provided with a quality product that is a trouble-free and long lasting source for hot water.



TransFlow Model Water Heater Specifications Thermostat Hydrastone Cement Lined Steel

	-
Capacities:	35 thru 119 Gallons
Orientation:	Vertical
Drain Size:	³ /4" Hose Connection
Tank Rating:	150 psi WP, 300 psi TP
Coil Type:	Removable
Coil Material:	Copper Fin Tube
Coil Rating:	150 psi WP, 300 psi TP
Approvals:	cULus, AHRI, IBR
Jacket:	High Impact Colorized
	Composite
Color:	White and Black

Operation Voltage: Switching Relay: Temperature Range: Differential:

Tank Warranty (Residential) Top Mount Model: Side Mount Model:

Tank Warranty (Commercial) Top Mount Model:

24 Volt AC/DC (Constant) S.P.S.T, 120 Volt, 10 Amp max. 110 - 160°F 2 - 20°F (Adjustable)

10 Years 7 Years

5 Years Side Mount Model: 3 Years

STANDARD EQUIPMENT

- 1/2" thick Hydrastone cement lined steel tank
- All copper-silicon non-ferrous tank openings
- Removable heating coil

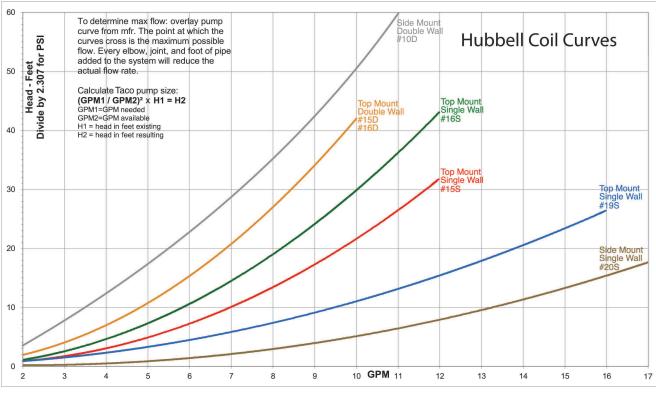
Tank:

- High efficiency copper fin tube heating coil
- Immersion adjustable electronic thermostat to control the flow of boiler water through the heating coil
- ASME rated temperature and pressure relief valve set at 150 psi, 210°F, 200,000 BTU max
- 2" thick polyurethane foam insulation meets or exceeds the requirements of ANSI, ASHRAE, IESNA 90.1-2007
- High impact colorized composite protective jacket

Coil Pressure Drop Chart

OPTIONAL EQUIPMENT

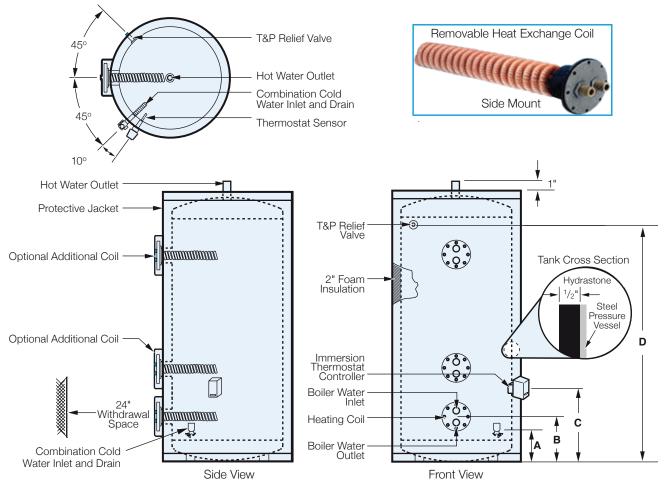
- **1.** 1¹/₂" Male NPT inlet and outlet water connections
- **2.** Double wall copper heating coil with a leak detection port
- **3.** Integrally welded seismic attachment points
- **4.** Electric back-up heating element in various wattages in single or three phase voltages (consult factory).
- **5.** Bulb and capillary mechanical thermostat (100-240°F) to accept 24-600 VAC operation voltage; SPST switch 120 Volt (16 Amp), 208 Volt (9 Amp), 240 Volt (8 Amp).
- Please note: Optional equipment may impact overall dimensions and weight. Please request submittal drawing from factory.



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SIDE MOUNT COIL

Outline Dimensions



Overall Dimensions

Model	Storage				D	Inlet / Outlet	Shipping			
	Capacity (Gallons)		Overall Diameter	Overall Height	Inlet "A"	Coil "B"	Thermostat "C"	T&P Valve "D"	Size (NPT)	Weight (Lbs)
TS65	65	0.44	26	48	8	10	14	40	3/4"	308
TS80	80	0.41	26	58	8	10	14	51	3/4"	338
TS80C	80	0.41	26	58	8	10	14	51	1-1/2"	340
TS120	119	0.39	28	69.25	8	11	17	62	3/4"	420
TS120C	119	0.39	28	69.25	8	11	17	62	1-1/2"	425

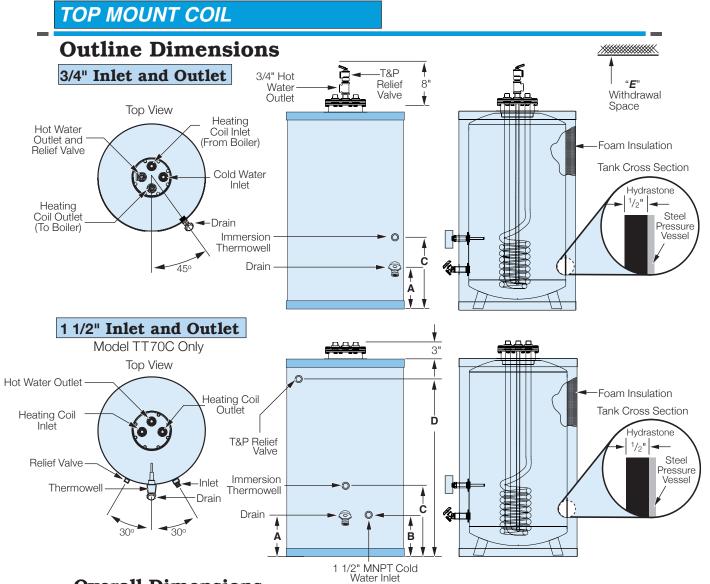
Heating Coil Selection Chart with Recovery Ratings

Base Model	Storage Capacity (Gallons)	Coil Position	Coil Type	Coil Model No.	Coil Connection Size (NPT)	1st Hour Rating (Gallons)	Continuous Demand Rating (Gal/Hr)	Boiler Water Flow Rate (GPM)	
TOOF	05	Side	Single Wall	20S	1"	295	235	13	
1 505	FS65 65		Double Wall	10D	3/4"	Consult Factory	Consult Factory	11	
TS80		Side	Side	Single Wall	20S	1"	307	235	13
TS80C				Side	Double Wall	10D	3/4"	Consult Factory	Consult Factory
TS120	TS120	Side	Ciele	Single Wall	20S	1"	339	235	13
TS120C	119		Double Wall	10D	3/4"	Consult Factory	Consult Factory	11	

Recovery ratings based upon the supply of 200°F boiler water to a single heating coil to heat domestic potable water from 50-140°F. For 180°F boiler water reduce recovery ratings by 25%.

Recovery ratings based upon one heating coil installed in tank. For additional coils, use the continuous demand rating.





Overall Dimensions

Storage		Standby	Dimensions (Inches)							Inlet / Outlet	Withdrawal	Shipping
Base Capad	Capacity (Gallons)	Heat Loss °F/Hour	Overall Diameter	Overall Height	Drain "A"	Inlet "B"	Thermostat "C"	T&P Valve "D"	Valve Size	Size (NPT)	Space "E"	Weight (lbs.)
TT35	35	0.72	22.75	39	8	Тор	14	Тор	3/4"	3/4"	36"	185
TT50	50	0.56	26	40	8	Тор	14	Тор	3/4"	3/4"	36"	238
ТТ70	70	0.45	28	46.5	8	Тор	14	Тор	3/4"	3/4"	41"	290
TT70C	70	0.45	28	46.5	8	8	14	38.5	3/4"	1-1/2"	41"	290

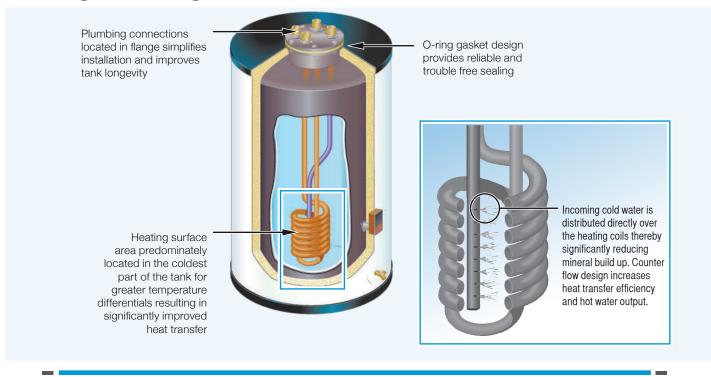
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TTOE	05	Tere	15S	Single Wall	3/4"	230	203	6
TT35 35	35	Тор	15D	Double Wall	3/4"	Consult Factory	Consult Factory	4
TTEO	50	Tere	15S	Single Wall	3/4"	250	214	6
TT50	50	Тор	15D	Double Wall	3/4"	Consult Factory	Consult Factory	4
TT 70	TT70 70	- -	16S	Single Wall	3/4"	335	271	6
1170		Тор	16D	Double Wall	3/4"	Consult Factory	Consult Factory	4
TT70C	70	Тор	19S	Single Wall	1"	385	321	13

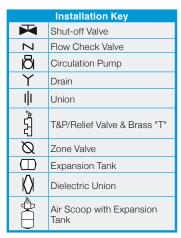
Recovery ratings based upon the supply of 200°F boiler water to the heating coil to heat domestic potable water from 50-140°F. For 180°F boiler water reduce recovery ratings by 25%.

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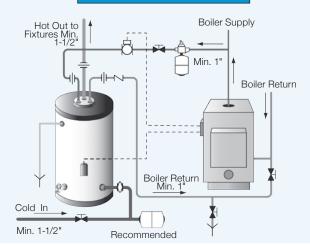
Heating Coil Design — Top Mount Coil

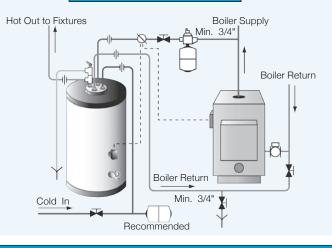


Top Mount Coil – Typical Installation



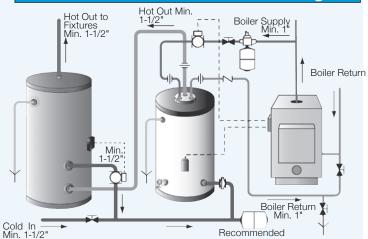
Commercial



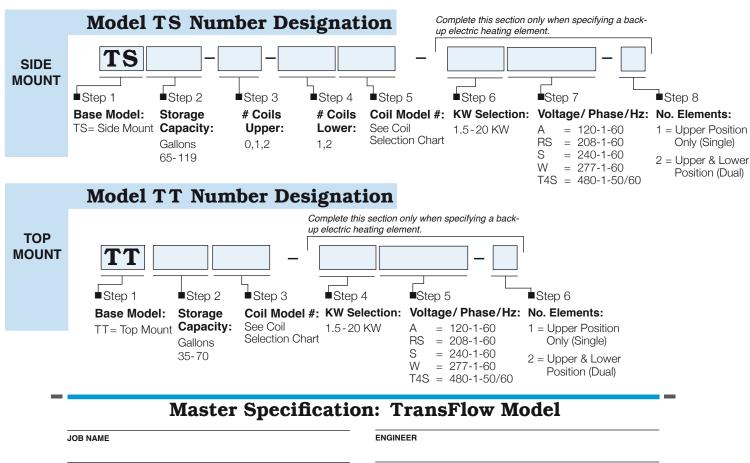


Residential

Commercial with Additional Storage







REPRESENTATIVE

CONTRACTOR

HEATING COIL The tank shall be fitted with a heating coil which transfers heat from the boiler water to the domestic water. Boiler water shall be in the tubes and domestic water in the tank. The heating coil shall be of single wall (**Optional Specification:** double wall) copper fine tube construction for maximum heat transfer efficiency and coil longevity. The coil shall be fully removable from the tank to allow for periodic inspection and maintenance without the need to move or lift the storage tank from its installed position.

BACK-UP ELECTRIC The water heater will be supplied with a back-up heater. The back-up heater shall be a single electric immersion heating element (**Optional Speci ication:** 119 gallon models only: a dual upper and lower element) rated at ______KW each and designed to operate at ______ volts ______ phase ______ Hz with all necessary operating controls factory mounted, wired and tested. The heating element(s) shall be copper or incoloy sheath electric immersion type sized to obtain the rated recovery. Water temperature shall be controlled through an adjustable 110-170°F snap action surface thermostat. An over-temperature manual reset Hi-Limit shall be factory installed to disconnect all conductors to the heating element in the event of an overtemperature condition in the pressure vessel.

THERMOSTAT The tank shall be fitted with an immersion 110-160°F adjustable electronic temperature controller to control the flow of boiler water through the heating coil. The temperature controller requires a constant 24 volt power supply to operate. The switching relay is a S.P.S.T. 120 volt 10 Amp Max relay which opens or closes the control circuit to the circulation pump or zone valve (by others) in order to regulate the flow of boiler water through the coil and thereby maintain the desired water temperature in the tank.

WARRANTY The water heater manufacturer shall warranty all components against defects in workmanship and material for a period of one (1) year from date of start-up and the pressure vessel including the heating coil for five (5) years from date of start-up, (residential applications seven (7) years) provided that the unit is started within three (3) months of date of shipment and installed and operated within the scope of the tank design and operating capability. Each water heater shall be shipped with a complete set of installation and operating instructions including spare parts list and approved drawings.



Committed to continuous improvement...



Continuing research results in product improvement; therefore specifications are subject to change without notice. For the most updated information, consult the factory directly.

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