DIVERSIFIED HEAT TRANSFER INC.

Technical Data Sheet

TECHTANIUM™

INDIRECT WATER HEATER

FEATURES:

- Available in a range of sizes (40-119 gallons) and footprints for Residential and Commercial Applications
- Connections: TT Series- Side Connections, MP Series- Top Connections
- Works with any hydronic heat source for domestic hot water
- Environmentally friendly polyurethane insulation limits heat loss and is both CFC and HFC- free
- Polyurethane foam for outstanding insulation and reduced power consumption- CFC free
- All models supplied magnesium anti-corrosion anodes
  - TT Models- (2) magnesium anti-corrosion anodes
  - MP Models- (1) magnesium anti-corrosion anode
- Environmentally and Installer friendly



Intertek

The DHT Techtanium Indirect Water Heater delivers all the hot water that's needed - quickly and efficiently - with long lasting performance built in. Designed and engineered for high performance at low cost ... with a warranty for a long life. Techtanium state-of-the art indirect water heaters are designed and engineered to have:

Extra Large Heat Exchanger Surface Area

- High recovery and continuous flow for abundant hot water.

Titanium Glass Lined

- High elasticity that adapts to expansion and contraction for added strength and durability.
- Provides a resistant layer of protection against corrosion

Sturdy exterior jacket for life lasting exterior appearance.

- Polyurethane foam (PUF) insulation reduces standby heat loss
  - Models TT- 40, 55 & 79 and MP Series tanks are supplied with durable exterior steel jacket with powder coat
  - Model TT-119-2 is supplied with a plastic fabric jacket which is cleanable and fire retardant.

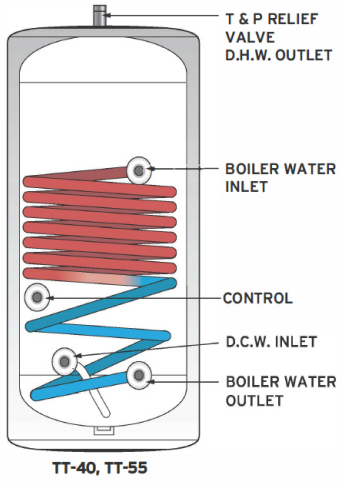
While satisfying the most demanding requirements for domestic hot water.

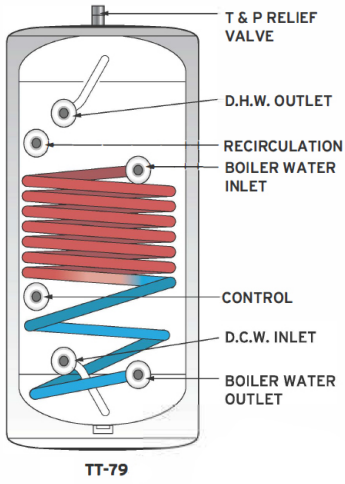
TT SERIES:

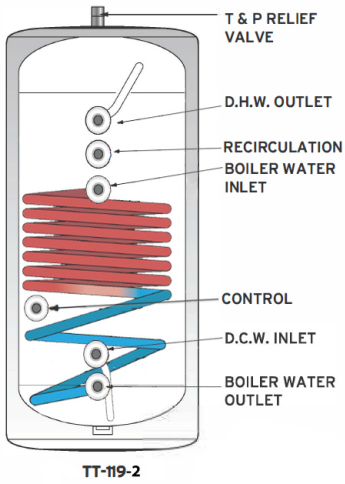
Includes:

- Honeywell L4006A Aquastat
- Immersion Well
- Warranty: Residential: 7 Years, Commercial: 3 Years

See warranty card for more information







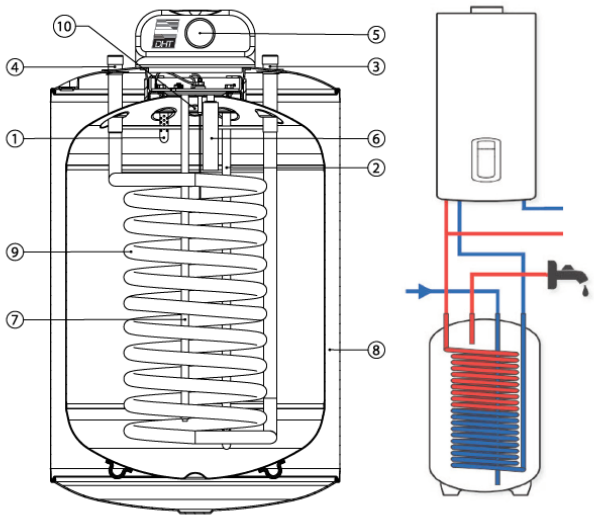
RATINGS & SPECIFICATIONS:

MODEL	TT-40	TT-55	TT-79	TT-119-2
Capacity (Gallons)	40	55	79	119
Heat Exchanger Surface Area (SQ.FT.)	14	14	26	26
Recommended Flow Rate GPM (Boiler Water)	10	10	14	14
Heat Exchanger Pressure Drop (Ft. Hd.)	2.3	2.3	11	11
First Hour Ratings GPH- 90° Rise	188	226	296	350
Continuous Flow GPH- 90° Rise	160	187	241	267
First Hour Ratings GPH- 70° Rise	233	277	363	396
Continuous Flow GPH- 70° Rise	205	239	308	313
Boiler Size BTU's Required	120,000	140,000	180,000	199,000
Temperature and Pressure Relief Valve (inch)	3/4"	3/4"	1"	1"
Domestic Hot Water Outlet (inch)	3/4"	3/4"	1"	1 1/2"
Domestic Hot Water Inlet (inch)	3/4"	3/4"	1"	1 1/2"
Boiler Water Outlet- Return (inch)	1"	1"	1"	1"
Boiler Water Inlet- Supply (inch)	1"	1"	1"	1"
Control	1/2"	1/2"	1/2"	1/2"
Recirclation	-	-	3/4"	3/4"
Diameter (inch)	20"	20"	22"	29"
Height (inch)	45"	58"	71"	75.24"
Shipping Weight (lbs.)	124	143	243	351

RATINGS- 180°F boiler water entering, 65°F-135°F domestic water

MODEL	TT-40	TT-55	TT-79	TT-119-2
First Hour Rating (GPH)	202	217	376	426
Continuous Draw Rating (GPH)	172	182	316	333
Minimum Heat Output Rate (Btu/hr)	107,438	103,333	186,694	209,323
Minimum Heat Source Flow Rate (GPM)	10	14	14	14
Heat Source Friction Loss (Feet w.c)	3.2	3	7.1	10.2
First Draw Rating (GPH)	30	35	60	93
Standby Loss (°F/ hr)	1.06	0.89	0.68	0.38

MP SERIES:



KEY:

1. DOMESTIC HOT WATER OUTLET
2. DOMESTIC COLD WATER INLET
3. BOILER WATER OUTLET (RETURN)
4. BOILER WATER INLET (SUPPLY)
5. THERMOMETER
6. MAGNESIUM ANODE ROD
7. TEMPERATURE SENSOR WELL
8. POLYURETHANE INSULATION – ENVIRONMENTALLY FRIENDLY
9. COIL HEAT EXCHANGER
10. TEMPERATURE & PRESSURE RELIEF VALVE TAPPING

Includes:

- Can be positioned on floor or wall hung with any boiler (optional wall bracket required)
- Includes: thermostat, thermometer, temperature & relief valve and brass drain
- Warranty: Residential: 7 Years, Commercial: 3 Years, See warranty card for more information

RATINGS & SPECIFICATIONS:

MODEL	MP-40	MP-50
Capacity (Gallons)	42.3	52.9
Heat Exchanger Surface Area (SQ.FT.)	7.54	10.79
Recommended Flow Rate GPM (Boiler Water)	12	12
Heat Exchanger Pressure Drop (Ft. Hd.)	7.6	8.8
First Hour Ratings GPH- 90° Rise	189	235
Continuous Flow GPH- 90° Rise	159	198
First Hour Ratings GPH- 70° Rise	253	289
Continuous Flow GPH- 70° Rise	223	252
Boiler Size BTU's Required	115,000	140,000
Temperature and Pressure Relief Valve (inch)	3/4"	3/4"
Domestic Hot Water Outlet (inch)	3/4"	3/4"
Domestic Hot Water Inlet (inch)	3/4"	3/4"
Boiler Water Outlet- Return (inch)	3/4"	3/4"
Boiler Water Inlet- Supply (inch)	3/4"	3/4"
Diameter (inch)	22.4	22.4
Height (inch)	44	52.5
Shipping Weight (lbs.)	121	143

Above ratings based on Boiler maintaining 180°F boiler water and Domestic water entering at 58°F

Note: Dimensions and Specifications subject to change without notice.

PRODUCT LINE CARD

RESIDENTIAL/ WHOLESALE



TX SERIES
INDIRECT WATER HEATER

- Available in 40, 50, 80, 110 gallons
- 444 Stainless Steel (1.4521 Niobium-Titanium Stabilized Steel)
- Stainless Steel Jacket (TX110- Polypropylene)
- Offers extreme protection against corrosion
- High density CFC free and fire retardant polyurethane foam insulation
- Reduced Energy Costs
- Adjustable legs
- Limited Life Time Warranty



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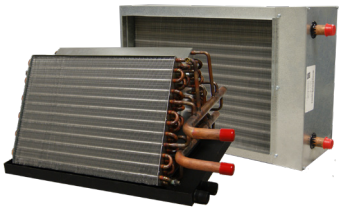
- Minimal heat loss
- Polyurethane foam for outstanding insulation and reduced power consumption - CFC free.
- All models supplied magnesium anti-corrosion anodes.



E-ZEE FLOW POOL HEATER

- Compact design
- Designed to perform at high fluid velocities with low pressure drops
- Made of high quality, specially treated AISI 316L stainless steel to insure superior corrosion resistance and longer product life
- Induced self-cleaning
- Also available in Nicrom-24 (Marine Series) for highly corrosive water conditions – ex. Saltwater



HVAC COILS

- Water & Steam Coils
- Evaporator & Condenser Coils
- Flanged Duct Coils
- Cased and Uncased Hydronic
- Specialty & Custom Coils
- 24 Hour Rush Options Available



CENTRAL TANKLESS COILS

- Copper Tru-Fin Tubing
- Replacement & OEM Coils
- Domestic Hot Water & Heating
- Obsolete & Hard to Replace Coils
- Next Day Service



BRAZED PLATE HEAT EXCHANGERS

- Available in Single Wall and Double Wall Construction
- Cover a wide range of cooling and heating capacities
- Resist scaling and fouling; effective self- cleaning
- Certifications: AHRI (water), ASME available



OTHER PRODUCTS

- John Wood Oil Fired Water Heaters, Booster Tanks and Storage Tanks
- TFI/ Everhot External Heaters

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