

Total Tankless Solution (TTS) Specification Sheet

TWST SERIES

Tankless With Storage Tank Commercial Tankless Water Heater System

UNMATCHED TECHNOLOGY

FRG’s TTS Series provides the most complete commercial water heater solution in the market. This tankless water heating system provides up to 1.2 million BTU/h in the smallest footprint while having the advantage of redundancy and equalizing heating performance.



KEY FEATURES

OPC (One Point of Connection)

- Water, Power, Gas, Venting & Condensation Drain

Manifold systems

- Hot Water Outlet, Cold Water Inlet, Gas, Condensate Drain

Building recirculation

Reduction in labor hours

System recirculation

Designed to fit through 3’-0” x 7’-0” Door

Pre-engineered system

Pre-configured control wiring

Pre-installed system controllers

Warranty

- 10 Years Heat Exchanger per Tankless Unit
- 5 Years Water Heater Parts & Components
- 3 Year Circulation Pump
- 1 Year Labor

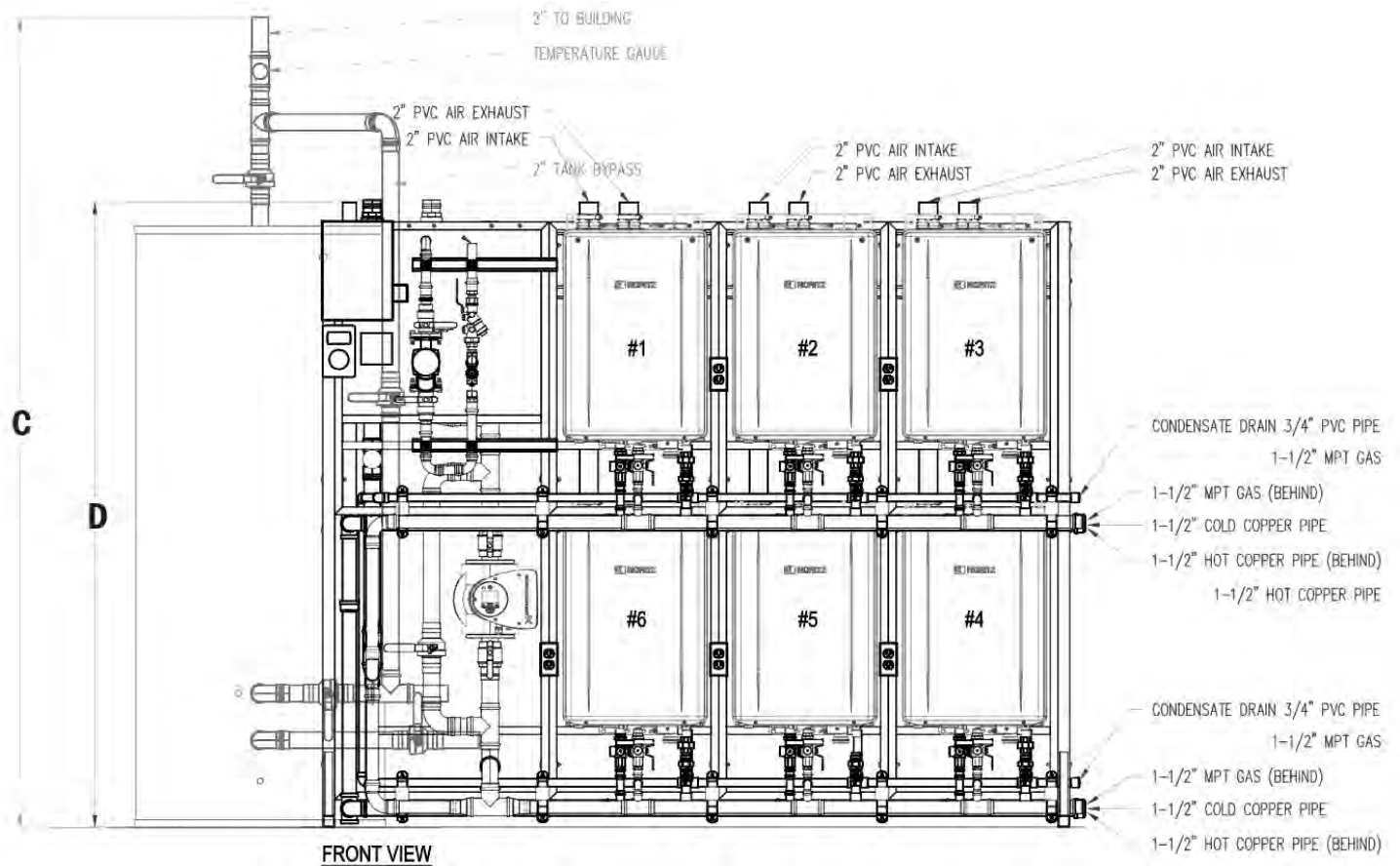
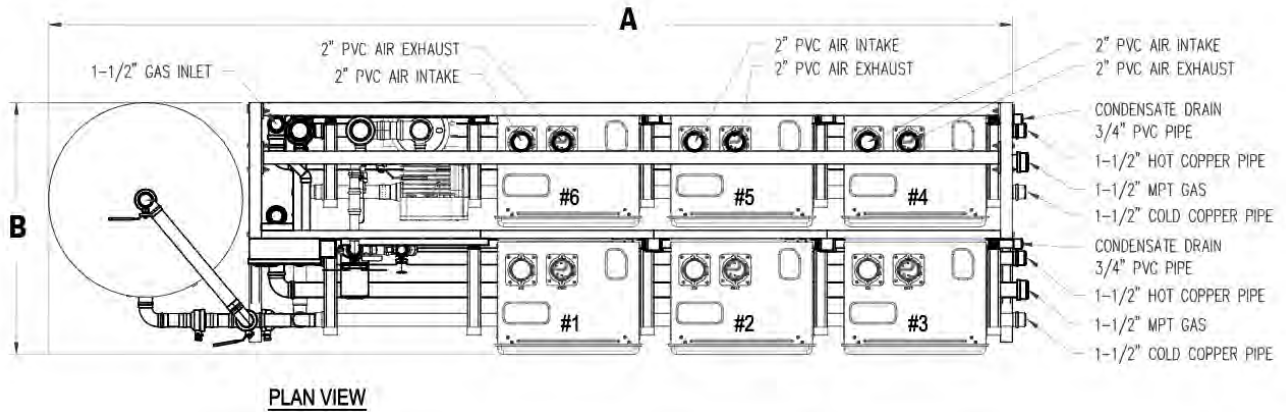
Additional accessories:

- Condensate Neutralizer (2x for TTS-S5/6 Models)
- 115 Gallon Storage Tank with Manifolds

TTS-TWST SERIES SPECIFICATIONS (SYSTEM DIMENSIONS)

	Length (A)	Depth (B)	Height (C)	Height (D)
TTS-TWST2: Total Tankless Solution - Tankless w. Storage Tank Series (399,800 BTU/hr)	87.25"	31.5"	104"	80"
TTS-TWST3: Total Tankless Solution - Tankless w. Storage Tank Series (599,700 BTU/hr)	87.25"	31.5"	104"	80"
TTS-TWST4: Total Tankless Solution - Tankless w. Storage Tank Series (799,600 BTU/hr)	109"	31.5"	104"	80"
TTS-TWST5: Total Tankless Solution - Tankless w. Storage Tank Series (999,500 BTU/hr)	109"	31.5"	104"	80"
TTS-TWST6: Total Tankless Solution - Tankless w. Storage Tank Series (1,199,400 BTU/hr)	130.75"	31.5"	104"	80"

Example Model: TTS-TWST6



TTS-TWST SERIES SPECIFICATIONS (PARAMETERS)

Model Name		TTS-TWST2	TTS-TWST3	TTS-TWST4	TTS-TWST5	TTS-TWST6
Min. Input (BTU/HR)		18,000				
Max. Output (BTU/HR)		399,800	599,700	799,600	999,500	1,199,400
Turn Down Ratio		22:1	33:1	44:1	55:1	66:1
Uniform Energy Factor (UEF)		0.95 (NG) / 0.95 (LP)				
System Dimensions L X D X H (IN)		87.25 X 31.5 X 104 (165 CU. FT.)	87.25 X 31.5 X 104 (165 CU. FT.)	109 X 31.5 X 104 (207 CU. FT.)	109 X 31.5 X 104 (207 CU. FT.)	130.75 X 31.5 X 104 (248 CU. FT.)
System Weight (LBS)		550	645	715	810	880
Shipping Dimensions L X D X H (IN)		92.25 X 38.5 X 107 (220 CU. FT.)	92.25 X 38.5 X 107 (220 CU. FT.)	114 X 38.5 X 107 (272 CU. FT.)	114 X 38.5 X 107 (272 CU. FT.)	135.75 X 38.5 X 107 (324 CU. FT.)
Shipping Weight (LBS)		740	875	1,175	1,410	1,480
GPH @100°F Rise		587.0	821.0	1,055.0	1,289.0	1,523.0
Operating Pressure		15 - 150 psi				
Gas Supply Pressure		NG: 3.5" - 10.5" LP: 8.0" - 14.0"				
Water Holding Capacity		0.80 Gallon (3.2L) per Heater				
Storage Tank Water Holding Capacity		115 Gallon (435L)				
Connection Size	Water Inlet	1-1/2" LC-ODT/PP				
	Hot Water Outlet	1-1/2" LC-ODT/PP				
	Hot Water Recirculation Return	3/4" LC-ODT/PP				
	Gas Inlet	1-1/2" Sch40-BI-NPT (2)				
	Condensate Drain	3/4" Sch 40 PVC-ODT				
Power Consumption	Supply Total Rack	208/240 VAC 1-PH 20-AMPS		208/240 VAC 1-PH 30-AMPS		
	Sub- Heater	120VAC (60Hz), less than 4 amperes				
	Sub - Re-Circulation Pump	120VAC (60Hz), 5 to 45W				
	Sub - System Circulation Pump	120VAC (60Hz), 32 to 1196W				
Temperature Setting	°F Mode	100-150°F (In 5°F intervals), 160°F, 170°F, 185°F (14 Options)				
	°C Mode	37-48°C (In 1°C intervals), 50-85°C (In 5°C intervals) (20 Options)				
Materials	Heater Front Cover	Hot-dipped zinc-aluminum-magnesium-alloy-coated steel w/ Polyester Coating				
	Heater Casing	Zincified Steel Plate / Polyester Coating				
	System Rack	Aluminum				
Pump Performance	System Pump	Max 12-GPM @ 22' of head	Max 18-GPM @ 22' of head	Max 24-GPM @ 26' of head	Max 30-GPM @ 26' of head	Max 36-GPM @ 28' of head
	Sub - Re-Circulation Pump	3.5-GPM @ 15' of head (see Pump Curve below)				

