

Volume and TC location template

Header Information					
Manufacturer:	General Electric		Date Tested:	7/8/2020	
Model Number:	40T-12BXR01		Date Sample Received:	6/17/2020	
Serial Number:	PROTO		Test Station Number:	Volume	
Test Procedure:	Volume Determination		Heating Medium:	Natural Gas	
Lab Location:	Cleveland		Operator:	Ashley Cocita	
Test Number:			Data File Name:	2BXR01_PROTO_TP-301 SV&TC Lo	
Report File Name:					
Have in the box photos been taken?	Yes		Have out of the box photos been taken?	Yes	
Storage Water Capacity					
Weight empty no fittings, W_t	161.20	lbs.	$V = (W_p - W_t)/\rho$		
Weight Empty w/fittings, W_{dry}	161.20	lbs.	DOE* Specified Volume, V_{DOE}	40.00	gall.
Weight Full w/fittings, W_{full}	480.80	lbs.	*If there is no DOE specified volume then enter the manufacturers specified volume		
Full tank Pressure	75.00	psi			
Inlet Water Temperature	64.50	°F	Manufacturer's Nominal Volume, V_{pc}	40.00	gall.
Water Density, ρ	8.33293	lbs/gall.	Measured Storage Volume, V_{st}	38.35	gall.
Storage Water Weight, W_{water}	319.60	lbs.	% of Specified Volume	95.88	%
Probe Location					
Number of Thermocouples, enter 3, 4, 5 or 6			6		
Height from directly under the spud including the tank to the top of the nipple, S			6	Inches	
Top of jacket to top of nipple, Y			4 3/8	Inches	
Height from directly under the spud including the tank to the top of the nipple for t/c tree fitting			6	Inches	
			Top of jacket to top of tank, T	1 5/8	Inches
Weight Full w/fittings, W_{full}	480.80	lbs.	Tree fitting overlap distance	7/8	Inches
	Tank Weight (lbs)	Weight removed (lbs)	Probe location from the top of Tank to the weight marking, T (inches)	Distance between probes (inches)	Probe Location with extension (inches)
Probe #1	454.17	26.63	4 3/4	4 3/4	9 7/8
Probe #2	400.90	53.27	12 3/8	7 5/8	17 1/2
Probe #3	347.63	53.27	20 1/4	7 7/8	25 3/8
Probe #4	294.37	53.27	28 1/8	7 7/8	33 1/4
Probe #5	241.10	53.27	36	7 7/8	41 1/8
Probe #6	187.83	53.27	44	8	49 1/8
Coil Water Capacity (Do not drain the Storage Water portion of the tank)					
Weight Empty w/fittings, $W_{coildry}$		lbs.	Full tank Pressure		psi
Weight Full w/fittings, $W_{coilfull}$		lbs.	Inlet Water Temperature		°F
			Water Density, ρ_h		lbs/gall.
$V = (W_{ph} - W_p)/\rho$					
			Manufacturer's Specified Volume, V_{hc}		gall.
Coil Water Weight, $W_{coilwater}$		lbs.	Storage Capacity, V_h		gall.
Heat Source + Potable Water + Tank weight		lbs.	% of Specified Volume		

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Probe Location & Capacity Setup (Include instrumentation, sensors, and all equipment used during testing)				
Instrument Type	Model	Asset #	Date of Last Calibration	Deadline for Next Calibration
Scale	Arlyn	WM-38	11/6/2019	11/6/2020
Water Inlet Probe	JMS	Z00017074	1/17/2020	7/17/2020
Pressure Gauge	Duro United	Z00014967	5/26/2020	5/26/2021
Notes/Comments (Please clarify any pertinent details, unusual events, etc.)				
Test Report Sign-Off Block				
By signing in the space below, we certify that the information and data in this report: (1) were obtained from the specific test unit under test; (2) were obtained during the specific test being reported; (3) were not copied from any other source, except where instructed to do so; and (4) were not altered or modified in any way.				
Role	Date	Entity		
Test Completion	07-08-2020	Ashley Cocita		
Template Completion	07-13-2020	Mark Whiteman		
Report Review by Test Lab	07-13-2020	Mark Whiteman		