Hydronic Accessories

Multi-Purpose Tanks

Our line of Chilled Water and Hot Water Multi-Purpose tanks deliver all the quality and performance you expect from Taco products. They are built to last with shell, heads and ANSI flanges with ASME constructed for 125 & 150 psi working pressures all while providing outstanding performance in the field, up to a maximum operating temperature of 240°F. These products are available in standard sizes from 2" through 10" to meet the needs of a broad range of applications with custom unit sizes available. Our tank volumes range from 50 gallons up to 1050 gallons with 16 sizes as standard and custom sizes to meet our customers' requirements.







Specifications

Many applications arise where a boiler or chiller may operate in a short cycle condition. Short cycling of the boiler or chiller is not recommended due to the high possibility of damage and or shortened component life, Short cycling is frequently due to the lack of BTU load balance between the demand of the hydronic system and the chiller or boiler BTU capacity.

A Multi-Purpose Tanks (MPT) is often utilized to introduce additional system fluid volume into the hydronic system to reduce the likelihood of this short cycling. A properly sized buffer tank optimizes the operation of the chiller or boiler and often introduces BTU storage allowing the system to operate without cycling the chiller or boiler. MPT's are available in vertical or horizontal orientations with a wide range of diameters and lengths (available storage volumes.)

Taco Inc. is pleased to offer a sizing app to aid in the sizing of Multi-Purpose Tanks. This app may be located at:

www.taco-hvac.com/wizard_buffer_tanks.html

SPECIFICATIONS

- Designed and constructed per ASME Code Section VIII, Division 1.
- Construction: Carbon Steel with Exterior Red Oxide Primer Finish on ALL tanks
- Standard Design Pressure and Temperature: 125 psi @ 240°F
- Flanged inlet and outlet System Connections (standard sizes shown)
- Registered with the National Board of Pressure Vessel Manufacturers
- · No Internal Baffle
- · Base Ring
- Raised Nameplate

OPTIONS (Consult Factory) Optional materials of construction

Higher design pressures and temperatures

Optional System Connection sizes available

THERMAL INSULATION OPTIONS

Chilled Water For Interior use

- 1/2" Armaflex_"C"
- 3/4" Armaflex_"E"
- 1" Armaflex_"D"
- 1-1/2" Armaflex "F"
- 2" Armaflex "G"

Chilled Water For Exterior use

- 1/2" Armaflex with 0.020 nom. Aluminum Jacket_"K"
- 3/4" Armaflex with 0.020 nom. Aluminum Jacket _"L"
- 1" Armaflex with 0.020 nom. Aluminum Jacket _"M"
- 1-1/2" Armaflex with 0.020 nom. Aluminum Jacket _"P"
- 2" Armaflex with 0.020 nom. Aluminum Jacket _"R"

Hot Water

- 1" Sillicone / Fiberglass_"H"
- 2" Sillicone / Fiberglass_"J"

Chilled Water & Hot Water Appications

- 2" Polyiso Form with 0.020 nom. Aluminum Jacket_"S"
- 3" Polyiso Form with 0.020 nom. Aluminum Jacket_"T"



ANSI Flange Data Table Class 150 RF30

SIZ	E O.D.	B.C.	#HOLES	HOLE DIA.	CL-CL
2"	6"	4-3/4"	4	3/4"	3.359
3″	7-1/2"	6"	4	3/4"	4.243
4"	9"	7-1/2"	8	3/4"	2.870
6"	11"	9-1/2"	8	7/8"	3.635
8″	13-1/2"	11-3/4"	8	7/8"	4.497
10'	16"	14-1/4"	12	1"	3.688







Threaded (up to 3")

Flanged

Zico





Saddles

Base Ring

Legs



Access the convenient **Buffer Tanks Wizard** by going to

www.taco-hvac.com/wizard_buffer_tanks.html





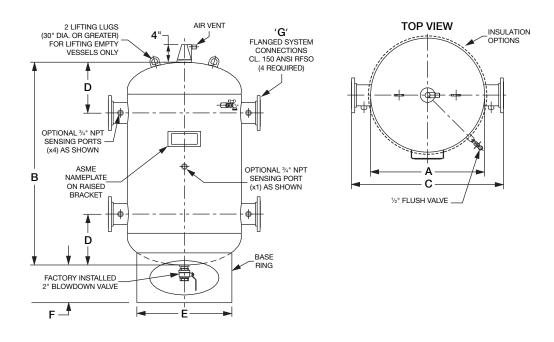




Quick Reference Guide

			Α	В	С	D	Е	F	G			
Model	Gallons	Actual Gallons	Tank Dia. (in)	Tank Height (in.)	Flange Spread (in.)	Head to Flange	Base Ring (Dia.)	Base Ring AFF (in.)	Nozzle Size (in.)	Maximum Approx. Dry Wt. (LBS.)	Maximum Flooded Wt. (LBS.)	Surface Area (Sq. Ft.)
MPT0050F125NX	50	55	20"	43.0	30	11-1/2	16	6-3/4	2", 3", 4"	190	607	21
MPT0075F125NX	75	82	24"	46.0	34	12-5/8	20	6-3/4	2", 3", 4"	240	866	27
MPT0100F125NX	100	111	24"	61.0	34	12-5/8	20	6-3/4	2", 3", 4"	280	1,114	34
MPT0125F125NX	125	139	24"	76.0	34	12-5/8	20	6-3/4	2", 3", 4"	330	1,373	42
MPT0150F125NX	150	168	30"	60.0	40	14-1/4	24	8	2", 3", 4"	510	1,761	43
MPT0180F125NX	180	201	30"	71.0	40	14-1/4	24	8	2", 3", 4"	590	2,091	50
MPT0200F125NX	200	222	30"	78.0	40	14-1/4	24	8	2", 3", 4"	630	2,298	55
MPT0250F125NX	250	278	36"	69.0	46	16-1/4	30	7-1/8	3", 4", 6"	710	2,795	59
MPT0300F125NX	300	334	36"	82.0	46	16-1/4	30	7-1/8	3", 4", 6"	820	3,322	69
MPT0350F125NX	350	386	36"	94.0	46	16-1/4	30	7-1/8	3", 4", 6"	910	3,829	79
MPT0400F125NX	400	443	48"	65.0	58	18-7/8	40	8-5/8	4", 6", 8"	1010	4,346	80
MPT0450F125NX	450	497	48"	72.0	58	18-7/8	40	8-5/8	4", 6", 8"	1080	4,833	88
MPT0500F125NX	500	551	48"	79.0	58	18-7/8	40	8-5/8	4", 6", 8"	1160	5,330	95
MPT0700F125NX	700	712	48"	100.0	58	18-7/8	40	8-5/8	4", 6", 8"	1300	7,138	117
MPT0850F125NX	850	873	54"	99.0	64	22-5/8	44	9-3/8	4", 6", 8"	1880	8,969	127
MPT1050F125NX	1,050	1,077	60"	99.0	72	24-3/4	50	9-3/4	6", 8" ,10"	2130	10,887	143

F__, Connection Size Required, Example: F06



Refer to standard submittal as this sheet is a "Quick Reference Guide" only. Go to www.taco-hvac.com > Products > Multi-Purpose Tanks > Submittals

Multi-Purpose Tank Coding Matrix without Baffles

Position Description	1, 2 Buffer Tanks	3 Connection Location	4, 5, 6,7 Gallons	8 Connection Type	9, 10 Nozzle Size	11 Design Temp. °F	12, 13, 14 Design psi	15 Insulation	16 Sensing Ports	
Part Number	MP	T	0050	F	04	-	125	N	X	
1, 2, 3					11					
Multi-Purpose	MPT	Multi-Purpose, Vert., Base Ring Design			Design Temp. °F	<u>-</u> А	240°F, Standard, MPT Series 400°F			
Carbon Steel Construction	СТ	Custom Tank*				В	450°F			
Construction	Ci	custom rank				9		Custom Temp Request*		
4, 5, 6, 7					12, 13, 14					
Capacity Gallons	0050	50 Gallo	ons	1	Design Pressure	125	psi			
	0075	75 Gallo	ons		_	150	psi			
	0100	100 Gallo	ons			9	Custom Pre	ssure Request*		
	0125	125 Gallo								
	0150	150 Gallo			15	N.	No localed			
	0180	180 Gallo			Insulation Options	N For Int	NO INSUIATI terior use. Hot Wa	on required		
						H	erior use. Hot wa 1" Silicon/F			
	0200					J	2" Silicon/F			
	0250	250 Gallo					erior use. Chilled Water Insulation.			
	0300	300 Gallo				C	1/2" Armaf	lex		
	0350	350 Gallo	ons			E	3/4" Armaf	lex		
	0400	400 Gallo	ons			D	1" Armafle			
	0450	450 Gallo	ons			F	1-1/2" Arm			
	0500	500 Gallo	ons			G	2" Armafle			
	0700	700 Gallo	ons			K	terior Use. Chilled	lex w/ Alum. Jack		
	0850	850 Gallo	ons			L		lex w/ Alum. Jacki		
	1050	1050 Gallo	ons			M		w/ Alum. Jacket		
		Custom Gal. Requ				Р		aflex w/ Alum. Jac	ket	
8		castom can nega	est.			R	2" Armafle	w/ Alum. Jacket		
Connection	F	Flanged					terior/Exterior Us ater/Chilled Wate			
	G	Grooved				S		yanurate with Alu	m. lacket	
	T	Threaded, FNPT u	n to 2-1/2"			T	•	yanurate with Alu		
	9	Custom Type Requ				9	-	ulation Request*	arri. Jacket	
0.10								•		
9, 10 Nozzle Size	02	2" AI	NSI		16 3/4" Sensing Port					
	03		NSI		or sensing rort	Х	None			
	04		NSI			1	Port on She	ell		
	06		NSI			4	Port on eac			
	08		NSI			5	Both 1 & 4,			
	10		NSI			9	Custom Po	rt Request*		
		Custom Size Requ								

PLEASE NOTE: Any "Custom Request" a Part Number to this Matrix, Sketch & Description MUST BE Sent with the Request.



Selection Software (APPS)

Pump Selection: www.taco-hvac.com/en/wizard_pumps.html **Buffer Tanks:** www.taco-hvac.com/wizard_buffer_tanks.html