



BUFFMAX is a buffer tank, storage tank and a hydraulic separator used to optimize the performance of many kinds of heating or water-cooling systems, (see the CW option).

IDENTIFICATION

As manufactured by THERMO 2000 Inc., the water tank required for a closed-circuit system must be a:

BUFFMAX 20	BUFFMAX 120	
BUFFMAX 30	BUFFMAX 120A	
BUFFMAX 50	BUFFMAX 175A	
BUFFMAX 80	BUFFMAX 200A	

TANK DESCRIPTION

BUFFMAX 20, 30, 50, 80 and 120 models

The tank is made of high-density carbon steel. All joints are arc-welded using the MIG/Argon method. The tank is designed for a maximum allowable working pressure of 150 psi and undergoes a hydrostatic test of 195 psi. The tank's outer steel surface is coated with baked powder-based paint.

BUFFMAX 120A, 175A and 200A models

The tank **complies with the requirements of the ASME standard** "Boiler and Pressure Vessel Code, Section VIII, div.1". The tank is made of high-density carbon steel. All joints are arc-welded using the GMAW method. The tank is designed for a maximum allowable working pressure of 125 psi @ 350°F and undergoes a hydrostatic test of 163 psi. The tank's outer steel surface is coated with baked epoxy-based paint.

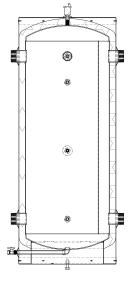
STANDARD FEATURES

• The tank has a total of 4 openings, 2 on each side. The tanks use NPTM connectors with the following standard sizes:

BUFFMAX 20 : 1 ¼"	BUFFMAX 50 : 2"	BUFFMAX 120: 3"	BUFFMAX 175A: 3
BUFFMAX 30 : 1 1/2"	BUFFMAX 80: 2 1/2"	BUFFMAX 120A: 3"	BUFFMAX 200A: 3

- 1/2" automatic air vent with a shut-off valve for easy replacement.
- 2¹/₂" diameter temperature and pressure indicator on the front
- Immersion well included
- Three $\frac{1}{2}$ " connections for the location of the well or to enable wells to be added
- 2" HFC-free polyurethane insulation limiting heat loss to 1/2°F per hour
- ³/₄" drain valve located at the lowest point of the tank
- The tank has adjustable legs
- ASME models (BUFFMAX 120A, 175A and 200A) have lifting lugs

THERMO 2000 INC.



3" 3"



AVAILABLE OPTIONS

2 additional standard connections added

BUFFMAX-BXT (Available for BUFFMAX 20, 30, 50, 80 and 120 models only)

Change the diameter of the standard connections

XX	1 ¼" NPT	1 ½" NPT	2" NPT	2 ½" NPT	3" NPT
BUFFMAX 20 - XXNPT	STD				
BUFFMAX 30 - XXNPT		STD			
BUFFMAX 50 - XXNPT			STD		
BUFFMAX 80 - XXNPT				STD	
BUFFMAX 120 - XXNPT					STD
BUFFMAX 120A - XXNPT	ND	ND			STD
BUFFMAX 175A - XXNPT	ND	ND			STD
BUFFMAX 200A - XXNPT	ND	ND			STD

Substitute standard connections for Class 150 flanges

YY	1 ¼" FLG	1 ½" FLG	2" FLG	2 1/2" FLG	3" FLG	4" FLG
BUFFMAX 20 - YYFLG						
BUFFMAX 30 - YYFLG						
BUFFMAX 50 - YYFLG						
BUFFMAX 80 - YYFLG						
BUFFMAX 120 - YYFLG						
BUFFMAX 120A - YYFLG	ND	ND				
BUFFMAX 175A - YYFLG	ND	ND				
BUFFMAX 200A - YYFLG	ND	ND				

Add elastomeric insulation for water-cooling applications to prevent condensation on the tank's outer surface.

BUFFMAX-CW

WARRANTIES

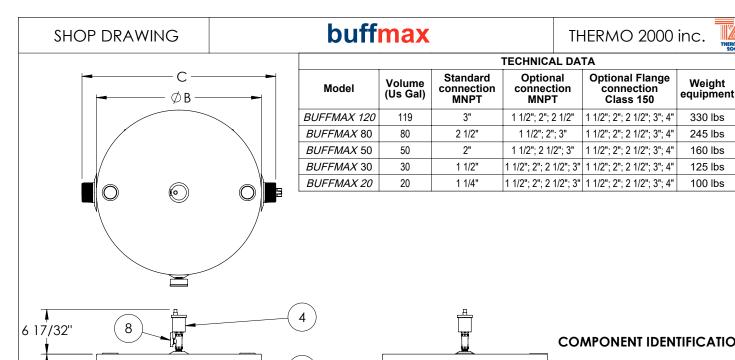
Heating Application

The tank is covered by a 10-year warranty for closed-circuit residential and commercial heating applications. Parts and accessories are guaranteed for 2 years.

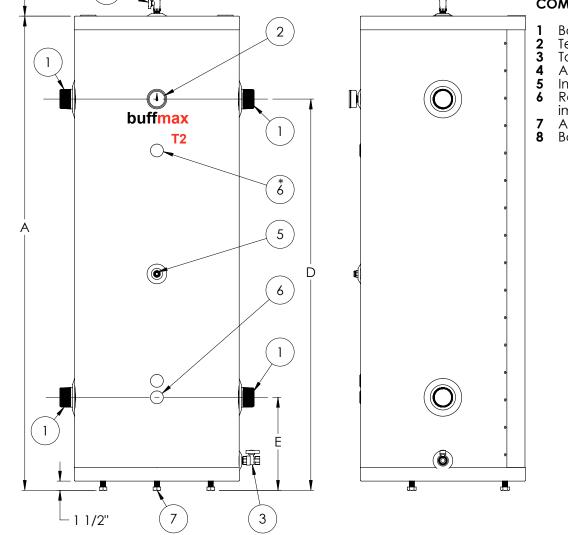
Water-Cooling Application

The tank is covered by a 5-year warranty for closed-circuit residential and commercial water-cooling applications with the **CW option.** Parts and accessories are guaranteed for 2 years.

THERMO 2000 INC.







- Boiler water connection
- Temp. & Press. indicator 1/2NPT

THERMO

Shipping

weight

380 lbs

325 lbs

230 lbs

185 lbs

160 lbs

- Tank drain valve 3/4NPT
- Automatic air vent 1/2NPT
- Immersion well 1/2NPT Removable Caps to add immersion well
- Adjustable legs
- Ball valve 1/2NPT

*: Additional well location only available on BUFFMAX 80 and 120 models.

The dimensions provided are for reference only. Please contact Thermo2000 for certified dimensions.

DIMENSIONS					
MODEL	Α	В	С	D	E
	in.	in.	in.	in.	in.
BUFFMAX 20	49 1/2	16	19 5/16	39 11/16	11 3/16
BUFFMAX 30	56	18	21 1/2	46 1/4	13 1/4
BUFFMAX 50	57	22	25 1/2	46 3/4	13 3/4
BUFFMAX 80*	71	24	28 1/2	61	14
BUFFMAX 120*	72 1/2	28	33 1/2	62	15