



**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.

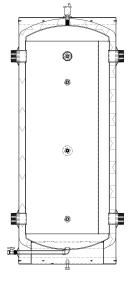
### STANDARD FEATURES

• 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.
- 2<sup>1</sup>/<sub>2</sub>" 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
- <sup>3</sup>/<sub>4</sub>" 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

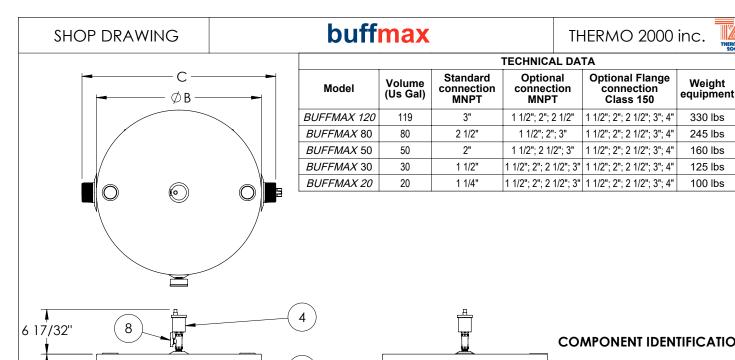
#### **Heating Application**

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.

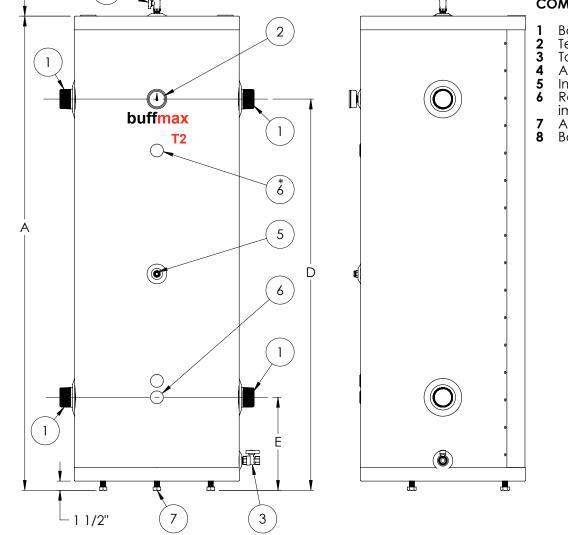
#### Water-Cooling Application

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