

# ***TURBOMAX***<sup>®</sup>

## ***INSTANTANEOUS INDIRECT WATER HEATER***

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### Specifications

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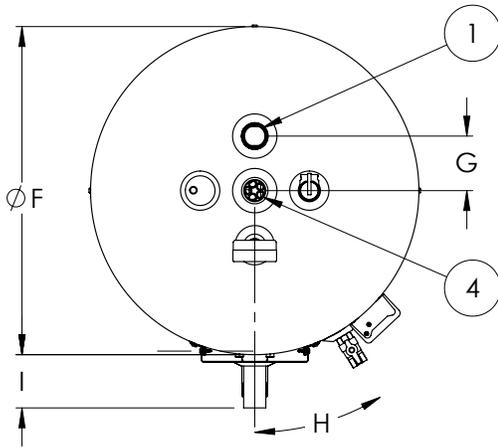
The indirect water heater shall be an TURBOMAX, model \_\_\_\_\_ as manufactured by THERMO 2000 Inc. The water heater heat exchanger shall be equipped with copper piping in the form of parallel helicoidal lines having a maximum operating pressure of 150 psi. All copper components and assembly will meet the low lead requirements for potable plumbing products and shall adhere to the NSF 61 standard (International Standard Drinking Water Systems Components Health Effects) . The hot water heater shall have a patented steel injector through which the boiler water fluid enters the top of the tank and a steel collector through which the boiler water circuit fluid exits at the bottom of the tank . The tank shall be made of high-carbon steel. All joints shall be arc-welded using the MIG/argon process. The tank shall have a maximum operating pressure of 150 psi and shall undergo a 300 psi hydrostatic test. The tank shall be wrapped in a glass fiber insulating jacket limiting thermal loss to 1/2°F per hour. The outer steel jacket shall be painted with baked epoxy. The water heater shall have a temperature controller (aquastat) that makes contact when the temperature falls below the tank's water temperature set point minus an adjustable differential (10 to 40F) and breaks contact when the temperature rises over the set point (95F to 195F). The tank shall have a ¾" drain (ball) valve made of brass, which have a maximum working pressure of 150 psi. Three adjustable feet support the water heater for leveling. The water heater shall be shipped from the factory with an ASME rated pressure relief valve set at 30psi (50 psi on model 109) protecting the tank, a 3 inch thermometer/pressure gage (except on models 23, 33) and an automatic air vent. The water heater shall be backed by a 15-year warranty on residential applications and 10 years on commercial applications (consult the terms of the warranty included at the end of the instruction manual shipped with the water heater).

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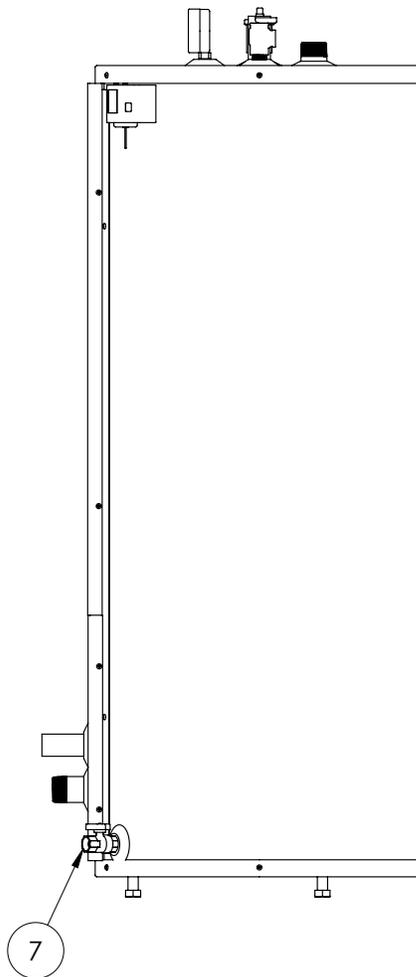
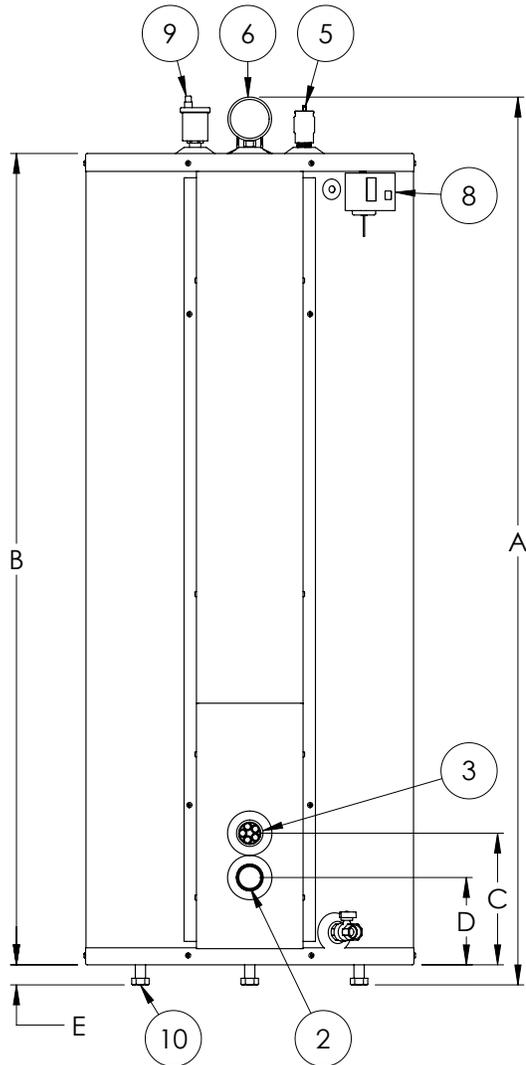
#### **THERMO 2000 INC.**

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**TECHNICAL DATA**

Models	Tank Volume	Heat transfer area (sq. ft.)	Domestic water connection	Boiler connection	Shipping weight
TURBOMAX <sup>®</sup> 109	119 US gal.	58.9 ft <sup>2</sup>	2" Copper M	2" NPT M	555 lbs
TURBOMAX <sup>®</sup> 65	72 US gal.	32.7 ft <sup>2</sup>	1-1/2" Copper M	1-1/2" NPT M	250 lbs
TURBOMAX <sup>®</sup> 45	48 US gal.	32.7 ft <sup>2</sup>	1-1/2" Copper M	1-1/4" NPT M	235 lbs
TURBOMAX <sup>®</sup> 44	48 US gal.	26.2 ft <sup>2</sup>	1-1/2" Copper M	1-1/4" NPT M	210 lbs
TURBOMAX <sup>®</sup> 34	36 US gal.	26.2 ft <sup>2</sup>	1-1/2" Copper M	1-1/4" NPT M	195 lbs
TURBOMAX <sup>®</sup> 33	36 US gal.	19.6 ft <sup>2</sup>	1-1/4" Copper M	1-1/4" NPT M	170 lbs
TURBOMAX <sup>®</sup> 24	26 US gal.	26.2 ft <sup>2</sup>	1-1/2" Copper M	1-1/4" NPT M	175 lbs
TURBOMAX <sup>®</sup> 23	26 US gal.	19.6 ft <sup>2</sup>	1-1/4" Copper M	1-1/4" NPT M	150 lbs



**COMPONENT IDENTIFICATION**

- 1 Boiler Water Supply (Inlet)
- 2 Boiler Water Return (Outlet)
- 3 Domestic Water inlet
- 4 Domestic Water outlet
- 5 Pressure relief valve 3/4NPTF
- 6 Temp. & Press. indicator 1/2NPTM
- 7 Tank drain valve 3/4NPTF
- 8 Temperature control
- 9 Automatic air vent 1/2NPTM
- 10 Adjustable leg

**DIMENSIONS**

MODELS	A	B	C	D	E	F	G	H	I
	in.	in.	in.	in.	in.	in.	in.	degrés	in.
TURBOMAX 23-24	47 1/2	42 1/4	7 1/4	4	1 1/4	18	4	30	4
TURBOMAX 33-34	64 1/4	59	7 1/4	4	1 1/4	18	4	30	4
TURBOMAX 44-45	54 1/2	49 1/4	9 1/2	5 3/4	1 1/4	22	4	30	4
TURBOMAX 65	64 1/2	59 1/4	9 1/2	6 1/2	1 1/4	24	4	30	4
TURBOMAX 109	72 3/4	67 1/2	11	6 1/2	1 1/4	29	5 1/2	45	4 1/4

# ***TURBOMAX***<sup>®</sup>

## ***ASME MODELS***

# ***65A & 109A***

## ***INSTANTANEOUS INDIRECT WATER HEATER***

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### Specifications

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The indirect water heater shall be an TURBOMAX, model 65A (\_\_\_) or 109A (\_\_\_) as manufactured by THERMO 2000 Inc. The complete unit will meet the requirements of ASME Boiler and Pressure Vessel Code, Section VIII, div.1. The water heater heat exchanger shall be equipped with copper piping in the form of parallel helicoidal lines having a maximum operating pressure of 150 psi (200psi on model 109A). All copper components and assembly shall meet the low lead requirements for potable plumbing products and shall adhere to the NSF 61 standard (International Standard Drinking Water Systems Components Health Effects) . The tank of the water heater shall have a patented steel injector through which the boiler water fluid enters the top of the tank and a steel collector through which the boiler water circuit fluid exits at the bottom of the tank . The tank shall be made of high-carbon steel . All joints shall be arc-welded using the MIG/argon process. The tank shall have a maximum operating pressure of 150 psi (200psi on models 109A) and shall undergo respectively a hydrostatic test at 195psi and 260psi. The tank shall be wrapped in a glass fiber insulating jacket limiting thermal loss to 1/2°F per hour. The outer steel jacket shall be painted with baked epoxy. The water heater shall have a temperature controller (aquastat) that makes contact when the temperature falls below the tank's water temperature set point minus an adjustable differential (10 to 40F) and breaks contact when the temperature rises over the set point (95F to 195F). The tank shall have a ¾" drain (ball) valve made of brass, which have a maximum working pressure of 200psi. Three adjustable feet support the water heater for leveling. The water heater shall be shipped from the factory with an ASME rated pressure relief valve set at 50 psi protecting the tank, a 3 inch thermometer/pressure gage and an automatic air vent. The water heater shall be backed by a 15-year warranty on residential applications and 10 years on commercial applications (consult the terms of the warranty included at the end of the instruction manual shipped with the water heater).

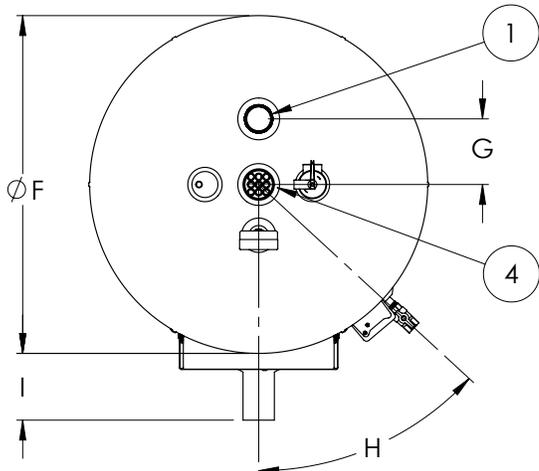
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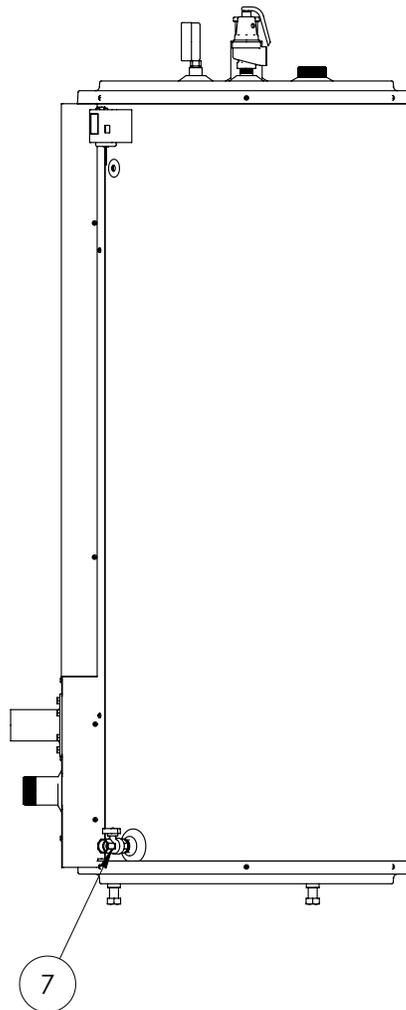
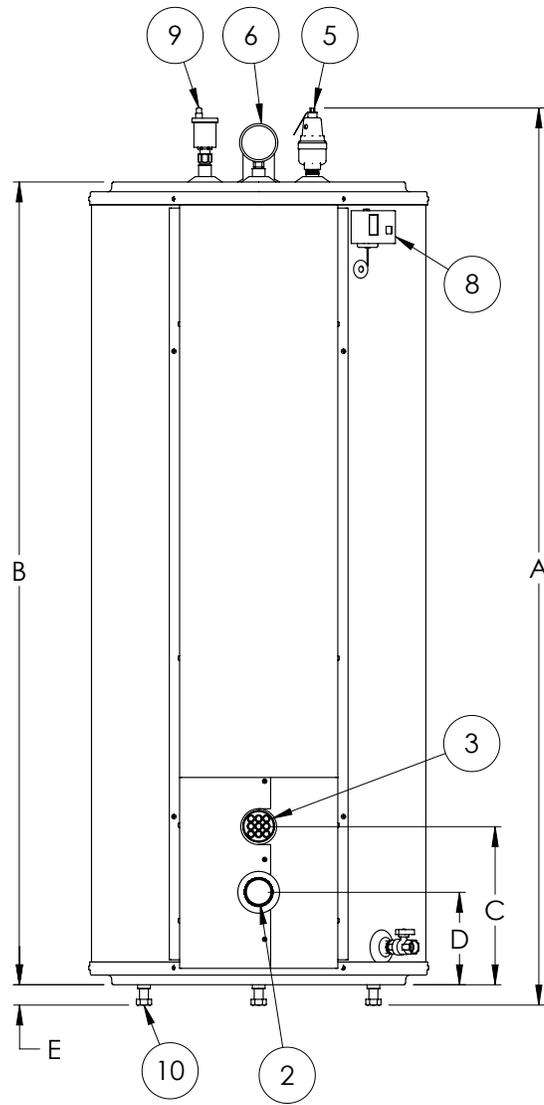
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*Turbomax specifications (Sept. 2014)*



TECHNICAL DATA					
Models	Tank Volume	Heat transfer area (sq. ft.)	Domestic water connection	Boiler connection	Shipping weight
TURBOMAX <sup>®</sup> 109A	110 US gal.	58.9 ft <sup>2</sup>	2 1/2" Copper M	2" NPT M	755 lbs
TURBOMAX <sup>®</sup> 65A	67 US gal.	32.7 ft <sup>2</sup>	2" Copper M	1-1/2" NPT M	425 lbs



**COMPONENT IDENTIFICATION**

- 1 Boiler Water Supply (Inlet)
- 2 Boiler Water Return (Outlet)
- 3 Domestic Water inlet
- 4 Domestic Water outlet
- 5 Pressure relief valve 3/4NPTF
- 6 Temp. & Press. indicator 1/2NPTM
- 7 Tank drain valve 3/4NPTF
- 8 Temperature control
- 9 Automatic air vent 1/2NPTM
- 10 Adjustable leg

**DIMENSIONS**

MODELS	A	B	C	D	E	F	G	H	I
	in.	in.	in.	in.	in.	in.	in.	degrés	in.
TURBOMAX 65A	67	59 1/2	11 1/4	6 3/4	1 3/4	24	4 1/2	30	5 5/8
TURBOMAX 109A	74 3/4	67 1/4	13 1/4	7 3/4	1 3/4	28 5/16	5 1/2	45	5 1/2