

TURBOMAX[®]

Instantaneous indirect water heater

Residential sizing guide



The residential sizing guide shows basic requirements for TurboMax domestic hot water production.

To size evaluate, count the number of bathrooms, bedrooms, family members, whirlpools and select accordingly for the type of demand that fits your needs. Bath tub or whirlpool capacity can be 30, 50 or 70 gallons. With 2 or 3 bathrooms, the second and third bathroom is considered to be shower loads additional to the bath filling load.

Note: Based on a 2.5 gpm shower head. Boiler water temperature set at 180°F or 160°F. Thermostatic mixing valve set at 140°F. The designer must provide additional capacity by increasing of the model size, and/or the power to satisfy the needs of any loads not included in these sizing guides. The requirements for recovery capacity and storage capacity may, in some areas, be fixed by building codes or housing authorities. In these cases, the designer must meet the specified requirements.

TURBOMAX Residential Sizing Guide

TURBOMAX : Instantaneous Indirect Water Heater



Équipements de chauffage
haute performance

Residential Sizing Guide : Count your number of bathrooms, bedrooms, family size and baths you have.

Select the right model and required power output (BTU/H) based on DHW demand only.

Number of bathroom(s)	Number of bedroom(s)	Family size	Bathtub capacity Capacity in Gallons US	TURBOMAX				
				Modèle				
				30-3	50-3	50-5	80-5	120-9
1 to 1-1/2	1	2	30	60 000	10 000	10 000	10 000	O-S
		2	50	139 000	60 000	40 000	10 000	O-S
		2	70	U-S	U-S	102 000	10 000	O-S
	2	4	30	60 000	12 000	10 000	10 000	O-S
		4	50	139 000	60 000	40 000	10 000	O-S
		4	70	U-S	U-S	102 000	10 000	O-S
	3	6	30	60 000	26 000	24 000	10 000	O-S
		6	50	139 000	60 000	40 000	10 000	O-S
		6	70	U-S	U-S	102 000	10 000	O-S
2 to 2-1/2	2	4	30	60 000	25 000	17 000	10 000	O-S
		4	50	139 000	69 000	58 000	10 000	O-S
		4	70	U-S	U-S	116 000	43 000	O-S
	3	6	30	75 000	53 000	47 000	11 000	O-S
		6	50	139 000	69 000	58 000	11 000	O-S
		6	70	U-S	U-S	116 000	43 000	O-S
	4	8	30	83 000	66 000	62 000	35 000	O-S
		8	50	139 000	69 000	62 000	35 000	O-S
		8	70	U-S	U-S	116 000	43 000	O-S
3 to 3-1/2	3	6	30	112 000	79 000	71 000	16 000	O-S
		6	50	149 000	105 000	94 000	21 000	O-S
		6	70	U-S	U-S	152 000	79 000	O-S
	4	8	30	125 000	100 000	93 000	52 000	O-S
		8	50	149 000	105 000	94 000	52 000	O-S
		8	70	U-S	U-S	152 000	79 000	O-S
	5	10	30	132 000	112 000	107 000	74 000	18 000
		10	50	149 000	112 000	107 000	74 000	18 000
		10	70	U-S	U-S	152 000	79 000	18 000



2 Bathroom house
family of 4
Biggest bath is 50 usGAL

Selection :

1. TurboMax 30-3 & 139 000 BTU/H
2. TurboMax 50-3 & 69 000 BTU/H
3. TurboMax 80-5 & 10 000 BTU/H

Legend : u-s = "under-sized" model
o-s = "over-sized" model

Domestic hot water evaluation based on:

- 15 minutes peak period
- Based on 2.5 gpm shower head and shower duration of 5 minutes
- Filling bathtub of the first bathroom
- When 2 or 3 bathrooms are used, the second and third bathroom is a shower load.
- Dishwasher load not simultaneous with the bathroom(s) load
- Based on domestic cold water temperature at 40F
- Based on water boiler temperature at 180F**
- Add heating load to the DHW load if no DHW priority installation is done
- Based on use of a mixing valve

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160F Boiler water

Number of bathroom(s)	Number of bedroom(s)	Family size	Bathtub capacity Capacity in Gallons US	TURBOMAX				
				Modèle				
				30-3	50-3	50-5	80-5	120-9
1 to 1-1/2	1	2	30	139 000	60 000	27 000	10 000	O-S
		2	50	187 000	139 000	120 000	36 000	O-S
		2	70	U-S	U-S	159 000	100 000	O-S
	2	4	30	139 000	60 000	27 000	10 000	O-S
		4	50	187 000	139 000	120 000	36 000	O-S
		4	70	U-S	U-S	159 000	100 000	O-S
	3	6	30	139 000	60 000	35 000	23 000	10 000
		6	50	187 000	139 000	120 000	36 000	10 000
		6	70	U-S	U-S	159 000	100 000	10 000
2 to 2-1/2	2	4	30	139 000	60 000	50 000	15 000	10 000
		4	50	187 000	139 000	120 000	56 000	10 000
		4	70	U-S	U-S	160 000	113 000	25 000
	3	6	30	139 000	75 000	69 000	46 000	10 000
		6	50	187 000	139 000	120 000	56 000	10 000
		6	70	U-S	U-S	160 000	113 000	25 000
	4	8	30	139 000	83 000	79 000	61 000	28 000
		8	50	187 000	139 000	120 000	61 000	28 000
		8	70	U-S	U-S	160 000	113 000	28 000
3 to 3-1/2	3	6	30	139 000	112 000	104 000	69 000	10 000
		6	50	187 000	149 000	138 000	92 000	10 000
		6	70	U-S	U-S	196 000	149 000	61 000
	4	8	30	139 000	125 000	118 000	92 000	42 000
		8	50	187 000	149 000	138 000	92 000	42 000
		8	70	U-S	U-S	196 000	149 000	61 000
	5	10	30	144 000	132 000	127 000	106 000	66 000
		10	50	187 000	149 000	138 000	106 000	66 000
		10	70	U-S	U-S	196 000	149 000	66 000



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family of 4
Biggest bath is 50 usGAL

Selection :

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2. TurboMax 50-3 & 139 000 BTU/H
3. TurboMax 80-5 & 56 000 BTU/H

Legend : u-s = "under-sized" model
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Domestic hot water evaluation based on:

15 minutes peak period

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Filling bathtub of the first bathroom

When 2 or 3 bathrooms are used, the second and third bathroom is a shower load.

Dishwasher load not simultaneous with the bathroom(s) load

Based on domestic cold water temperature at 40F

Based on water boiler temperature at 160F

Add heating load to the DHW load if no DHW priority installation is done

Based on use of a mixing valve