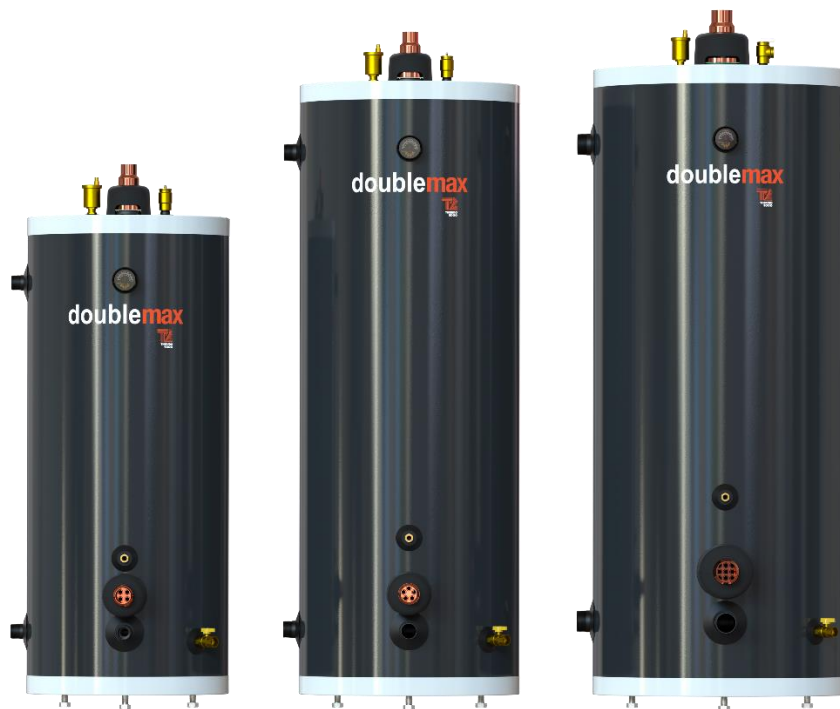


# ***DOUBLEMAX***

***Instantaneous indirect double-wall water heater***

## **Residential sizing guide**



The residential sizing guide shows basic requirements for DoubleMax 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.

# DOUBLEMAX Residential Sizing Guide

## DOUBLEMAX : 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	DOUBLEMAX		
				Model		
				50-4	80-5	120-9
1 to 1-1/2	1	2	30	10 000	10 000	O-S
		2	50	60 000	10 000	O-S
		2	70	117 000	10 000	O-S
	2	4	30	12 000	10 000	O-S
		4	50	60 000	10 000	O-S
		4	70	117 000	10 000	O-S
	3	6	30	26 000	10 000	O-S
		6	50	60 000	10 000	O-S
		6	70	117 000	10 000	O-S
2 to 2-1/2	2	4	30	25 000	10 000	O-S
		4	50	69 000	10 000	O-S
		4	70	127 000	43 000	O-S
	3	6	30	53 000	11 000	O-S
		6	50	69 000	11 000	O-S
		6	70	127 000	43 000	O-S
	4	8	30	66 000	35 000	O-S
		8	50	69 000	35 000	O-S
		8	70	127 000	43 000	O-S
3 to 3-1/2	3	6	30	79 000	16 000	O-S
		6	50	105 000	21 000	O-S
		6	70	163 000	79 000	O-S
	4	8	30	100 000	52 000	O-S
		8	50	105 000	52 000	O-S
		8	70	163 000	79 000	O-S
	5	10	30	112 000	74 000	18 000
		10	50	112 000	74 000	18 000
		10	70	163 000	79 000	18 000



2 Bathroom house  
family of 4  
Biggest bath is 50 usGAL

Selection :

1. DoubleMax 50-4 & 69 000 BTU/H
2. DoubleMax 50-3 & 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

# DOUBLEMAX Residential Sizing Guide

## DOUBLEMAX : 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.

160 °F boiler water

Number of bathroom(s)	Number of bedroom(s)	Family size	Bathub capacity Capacity in Gallons US	DOUBLEMAX		
				Model		
				50-4	80-5	120-9
1 to 1-1/2	1	2	30	27 000	10 000	O-S
		2	50	120 000	36 000	O-S
		2	70	159 000	100 000	O-S
	2	4	30	27 000	10 000	O-S
		4	50	120 000	36 000	O-S
		4	70	159 000	100 000	O-S
	3	6	30	35 000	23 000	10 000
		6	50	120 000	36 000	10 000
		6	70	159 000	100 000	10 000
2 to 2-1/2	2	4	30	50 000	15 000	10 000
		4	50	120 000	56 000	10 000
		4	70	160 000	113 000	25 000
	3	6	30	69 000	46 000	10 000
		6	50	120 000	56 000	10 000
		6	70	160 000	113 000	25 000
	4	8	30	79 000	61 000	28 000
		8	50	120 000	61 000	28 000
		8	70	160 000	113 000	28 000
3 to 3-1/2	3	6	30	104 000	69 000	10 000
		6	50	138 000	92 000	10 000
		6	70	U-S	149 000	61 000
	4	8	30	118 000	92 000	42 000
		8	50	138 000	92 000	42 000
		8	70	U-S	149 000	61 000
	5	10	30	127 000	106 000	66 000
		10	50	138 000	106 000	66 000
		10	70	U-S	149 000	66 000



2 Bathroom house  
family of 4  
Biggest bath is 50 usGAL

Selection :

1. DoubleMax 50-4 & 120 000 BTU/H
2. DoubleMax 80-5 & 56 000 BTU/H
3. DoubleMax 120-9 & 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 160F**
- Add heating load to the DHW load if no DHW priority installation is done
- Based on use of a mixing valve