

SECTION 506

MINIMUM CAPACITIES FOR RESIDENTIAL WATER HEATERS

*Add new Section 506 ‘Minimum Capacities For Residential Water Heaters’ as follows:

506.1 General. Water heaters installed in residential occupancies shall be sized in accordance with Table 506. Other methods used to heat water shall be sized to meet the total draw and recovery rates as listed in Table 506.

**TABLE 506
MINIMUM CAPACITIES FOR RESIDENTIAL WATER HEATERS¹**

**See footnote (1) located below table for manufacturer’s specifications.*

| Fuel | | Gas | Elec. | Oil | Gas | Elec. | Oil | Gas | Elec. | Oil | Gas | Elec. | Oil |
|----------------------|-------------------|-----|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|-----|
| # of Bedrooms | | 1 | | | 2 | | | 3 | | | --- | | |
| 1 to 1 ½ Baths | Storage (gal) | 20 | 20 | 30 | 30 | 30 | 30 | 30 | 40 | 30 | --- | --- | --- |
| | Input | 27 | 2.5 | 70 | 36 | 3.5 | 70 | 36 | 4.5 | 70 | --- | --- | --- |
| | Draw (gph) | 43 | 30 | 89 | 60 | 44 | 89 | 60 | 58 | 89 | --- | --- | --- |
| | Recovery (gph) | 23 | 10 | 59 | 30 | 14 | 59 | 30 | 18 | 59 | --- | --- | --- |
| # of Bedrooms | | 2 | | | 3 | | | 4 | | | 5 | | |
| 2 to 2 ½ Baths | Storage (gal) | 30 | 40 | 30 | 40 | 50 | 30 | 40 | 50 | 50 | 50 | 66 | 30 |
| | Input | 36 | 4.5 | 70 | 36 | 5.5 | 70 | 38 | 5.5 | 70 | 47 | 5.5 | 70 |
| | Draw (gph) | 60 | 58 | 89 | 70 | 72 | 89 | 72 | 72 | 89 | 90 | 88 | 89 |
| | Recovery (gph) | 30 | 18 | 59 | 30 | 22 | 59 | 32 | 22 | 59 | 40 | 22 | 59 |
| # of Bedrooms | | 3 | | | 4 | | | 5 | | | 6 | | |
| 3 to 3 ½ Baths | Storage (gal) | 40 | 50 | 30 | 50 | 66 | 30 | 50 | 66 | 30 | 50 | 80 | 40 |
| | Input | 38 | 5.5 | 70 | 38 | 5.5 | 70 | 47 | 5.5 | 70 | 50 | 5.5 | 70 |
| | Draw (gph) | 72 | 72 | 89 | 82 | 88 | 89 | 90 | 88 | 89 | 92 | 102 | 99 |
| | Recovery (gph) | 32 | 22 | 59 | 32 | 22 | 59 | 40 | 22 | 59 | 42 | 22 | 59 |

1 gal=3.7854 L

1 gph=1.05 mL/s

NOTE:

- Storage capacity, input and recovery requirements indicated in the table are typical and may vary with each individual manufacturer. Any combination of these requirements to produce the 1-hour draw stated shall be satisfactory. Recovery based on 100 °F (37.8 °C) water temperature rise. The input rating is in units of 1000 BTU/h for gas and oil, and 1000 W/h for electric. **EXAMPLE:** For a 3-bedroom, 2-bath residence, there are three choices as follows: A 40 gal storage/30 gph recovery gas heater; a 50 gal storage/22 gph recovery electric heater; or a 30 gal storage/59 gph recovery oil heater; or an equivalent combination which will produce at least a 70 gph total draw.