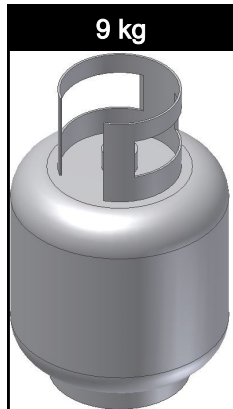


Gas Bottle Consumption Calculation

LPG Gas Bottle Energy Calculation



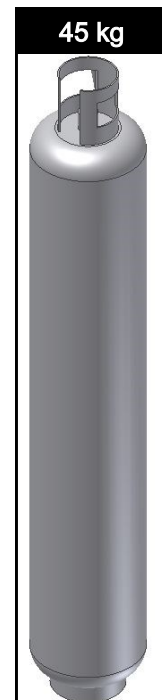
- 1 kg of LPG gas contains 50.4 MJ of Energy
- 1 kW = 3.6 MJ

This means that a 45kg LPG Gas Bottle has:

- 45 kg x 50.4 MJ = 2268 MJ

This works for the different bottle sizes

- 9 kg Gas Bottle = 453.6 MJ
- 45 kg Gas Bottle = 2268 MJ
- 2 x 45 kg Gas Bottles (Twin Pack) = 4536 MJ



How to calculate how long your LPG bottle will last:

To work out how many hours burn in a LPG gas bottle, divide the energy (MJ) by the total MJ input of your appliance (MJ /h) - see below for examples:

Warmington Gas Fire (on High):

SG/EG 700 = 29 MJ/h

$$\text{for a 9 kg bottle} = \frac{453.6 \text{ MJ}}{29 \text{ MJ/h}} = 15.6 \text{ h}$$

$$\text{for a 45 kg bottle} = \frac{2268 \text{ MJ}}{29 \text{ MJ/h}} = 78.2 \text{ h}$$

SG/EG 780 = 38 MJ/h

$$\text{for a 9 kg bottle} = \frac{453.6 \text{ MJ}}{38 \text{ MJ/h}} = 11.9 \text{ h}$$

$$\text{for a 45 kg bottle} = \frac{2268 \text{ MJ}}{38 \text{ MJ/h}} = 56.7 \text{ h}$$

SG/EG 900 = 42 MJ/h

$$\text{for a 9 kg bottle} = \frac{453.6 \text{ MJ}}{42 \text{ MJ/h}} = 10.8 \text{ h}$$

$$\text{for a 45 kg bottle} = \frac{2268 \text{ MJ}}{42 \text{ MJ/h}} = 54.0 \text{ h}$$

SG/EG 1100 = 50 MJ/h

$$\text{for a 9 kg bottle} = \frac{453.6 \text{ MJ}}{50 \text{ MJ/h}} = 9.1 \text{ h}$$

$$\text{for a 45 kg bottle} = \frac{2268 \text{ MJ}}{50 \text{ MJ/h}} = 45.4 \text{ h}$$

SG/EG 780 Twin = 59 MJ/h

$$\text{for a 9 kg bottle} = \frac{453.6 \text{ MJ}}{59 \text{ MJ/h}} = 7.7 \text{ h}$$

$$\text{for a 45 kg bottle} = \frac{2268 \text{ MJ}}{59 \text{ MJ/h}} = 38.4 \text{ h}$$

SG/EG 900 Twin = 72 MJ/h

$$\text{for a 9 kg bottle} = \frac{453.6 \text{ MJ}}{72 \text{ MJ/h}} = 6.3 \text{ h}$$

$$\text{for a 45 kg bottle} = \frac{2268 \text{ MJ}}{72 \text{ MJ/h}} = 31.5 \text{ h}$$

SG/EG 1100 Twin = 76 MJ/h

$$\text{for a 9 kg bottle} = \frac{453.6 \text{ MJ}}{76 \text{ MJ/h}} = 6.0 \text{ h}$$

$$\text{for a 45 kg bottle} = \frac{2268 \text{ MJ}}{76 \text{ MJ/h}} = 29.8 \text{ h}$$