

Vaillant Commercial



500 litre single coil

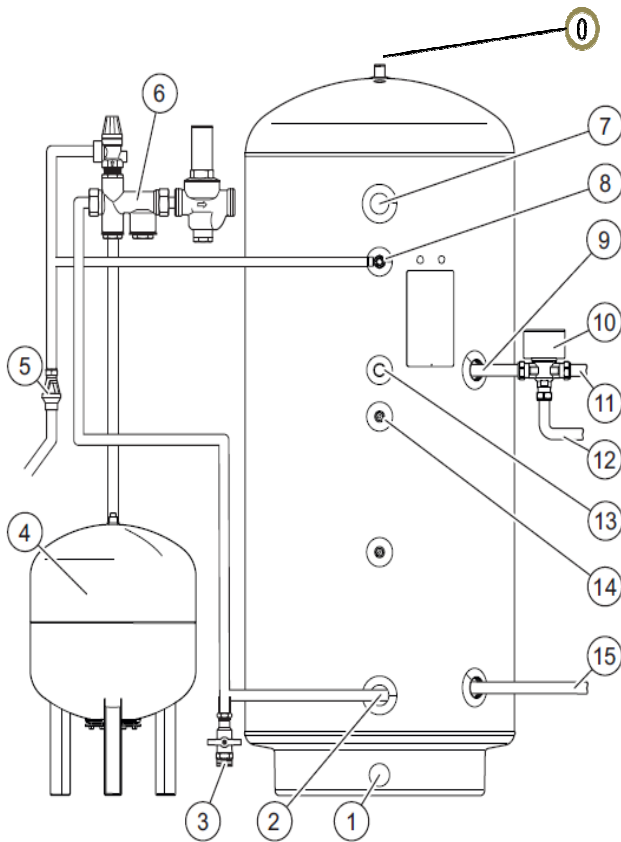
500 litre twin coil

800 litre single coil

| General data | | | | |
|---------------------------|----------------|---------------|----------------|------|
| SAP Description (invoice) | Article number | EAN | List Price £ | |
| VIH RW GB 800 BES | 0010019229 | 4024074760024 | (800litre S/C) | 2400 |
| VIH RW GB 500 BES | 0010019228 | 4024074760000 | (500litre S/C) | 1750 |
| VIH SW GB 500 BES | 0010019234 | 4024074760017 | (500litre T/C) | 2000 |
| Expansion vessel, 80L | 0020229942 | 4024074789346 | | 150 |
| Expansion vessel, 50L | 0020229941 | 4024074789339 | | 125 |
| Kit, un vented tank 1" | 0020235964 | 4024074789087 | | 185 |
| Kit, un vented tank 1¼" | 0020235965 | 4024074789094 | | 255 |
| Kit, un vented tank 1½" | 0020235966 | 4024074789100 | | 350 |
| Kit, un vented tank 2" | 0020235967 | 4024074789315 | | 599 |
| 7.5kW Immersion | 0020235671 | 4024074789445 | | 40 |

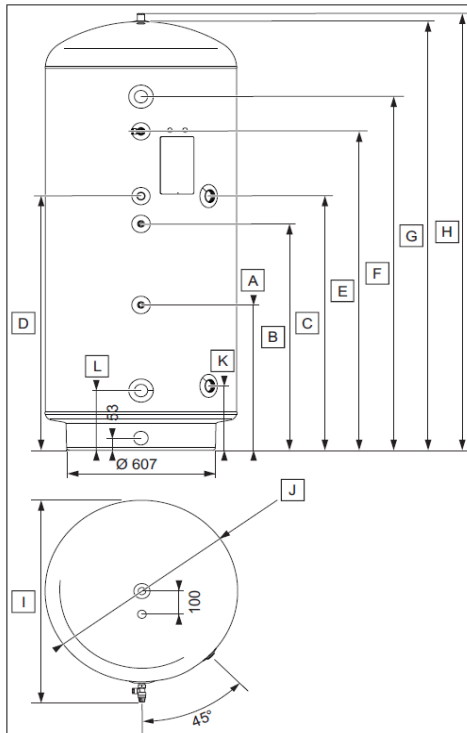
*See detailed dimensions on following diagrams for additional fitting measurements i.e. T&P valve

| General Performance data | | | | | | | | | |
|--------------------------|-----|--------------------|------------------------------|------------|--------------------------------|--------------------------------|-----------------------|-----------------|----------------|
| Description | ERP | Heat loss kW/24hrs | Coil output kW | Coil Size | Re heat (70%) Mins | Heat up 15 to 60°C Mins | Actual Water capacity | Weight Empty kG | Weight full kG |
| VIH RW GB 800 BES | C | 3.00 | 74.5 | 7.0 | 18.32 | 26.17 | 740 | 296 | 1015 |
| VIH RW GB 500 BES | C | 2.52 | 50.5 | 4.7 | 20.02 | 28.60 | 512 | 188 | 690 |
| VIH SW GB 500 BES | C | 2.57 | 35.0 (upper) 19.2 (lower) | 2.3 1.0 | 13.83 (upper) 48.83 (lower) | 19.75 (upper) 69.75 (lower) | 510 | 203 | 705 |



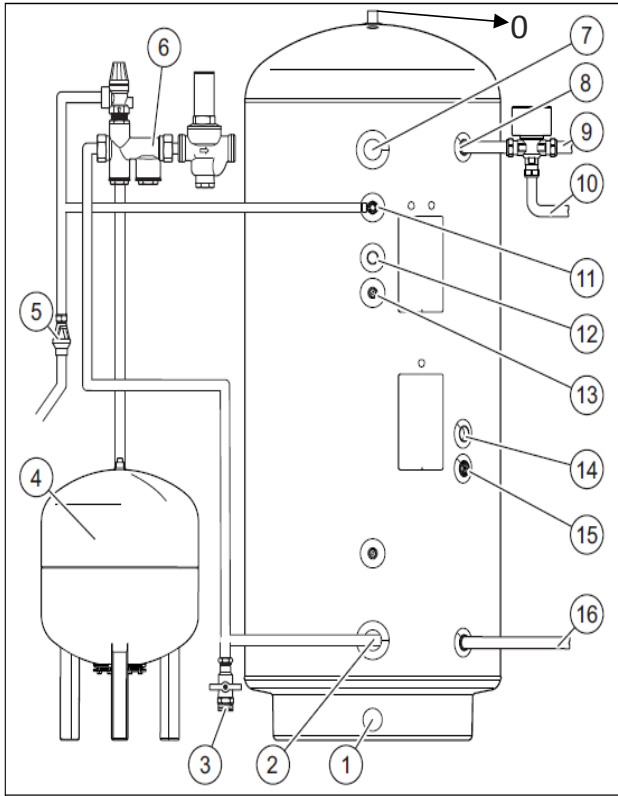
| Connection | Diameter |
|---|---|
| 0. Destratification outlet | 3/4" |
| 1. Drain | 1" |
| 2. Cold water inlet | 1 1/2" |
| 3. Drain valve | Not supplied |
| 4. Expansion vessel | 1" |
| 5. Tundish | 22/28 |
| 6 . Safety group | Depending on which un vented kit selected |
| 7. Hot water outlet | 1 1/2" |
| 8. T&P valve | 3/4" |
| 9. primary flow | 1 1/2" |
| 10. Motorised valve | Not supplied |
| 11. Heating circuit flow | |
| 12. HP flow (only of HP heat generator selected) | |
| 13. Secondary circulation | 3/4" |
| 14. Sensor pocket | 8 mm |
| 15 . Primary return | 1 1/2" |

- Diagram shows a 3 way valve for use with heat pump system.
- Commercial boiler applications use a 2 way valve that is not supplied.
- All connections are BSP female (internal thread)



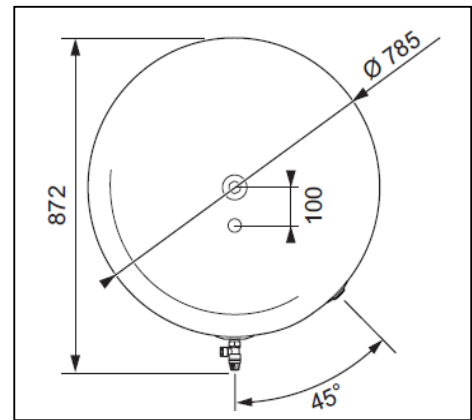
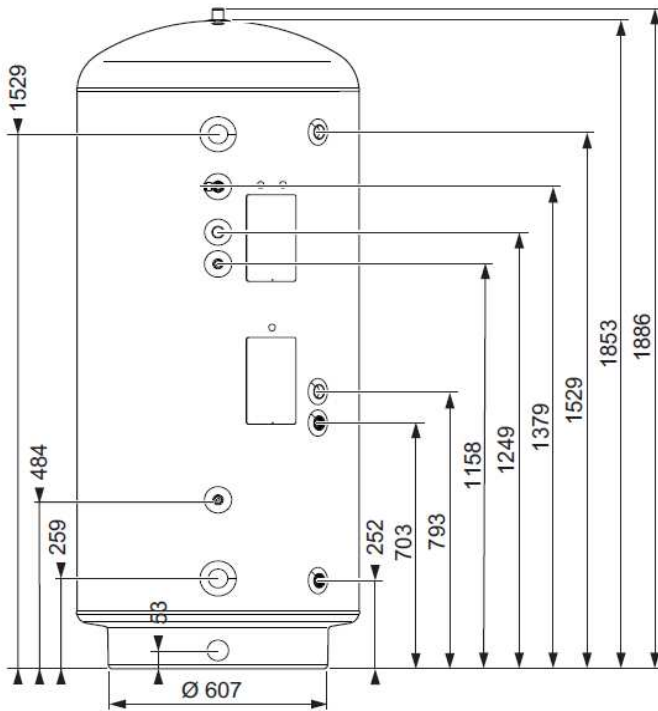
Cylinder connections - positions

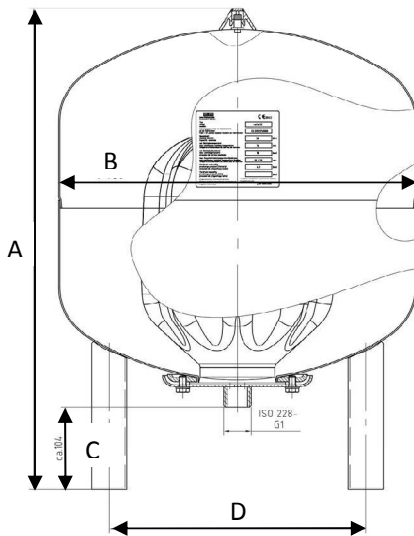
| | VIH RW GB 500 BES | VIH RW GB 800 BES |
|---|-------------------|-------------------|
| A | 649 | 745 |
| B | 979 | 1180 |
| C | 1099 | 1130 |
| D | 1099 | 1280 |
| E | 1379 | 1381 |
| F | 1529 | 1480 |
| G | 1853 | 1872 |
| H | 1886 | 1905 |
| I | 872 | 1071 |
| J | 785 | 986 |
| K | 279 | 310 |
| L | 259 | 310 |



| Connection | Diameter |
|--|---------------------------------------|
| 0. Destratification outlet | 3/4" |
| 1. Drain | 1" |
| 2. Cold water inlet | 1 1/2" |
| 3. Drain valve | Not supplied |
| 4. Expansion vessel | 1" |
| 5. Tundish | 22/28 |
| 6. Safety group | Depending on which G3 kit is selected |
| 7. Hot water outlet | 1 1/2" |
| 8. Primary flow | 1" |
| 9. Heating circuit flow | |
| 10. HP flow (only if 3 way valve is used with HP heat generator) | |
| 11. T&P valve | 3/4" |
| 12. Recirculation | 3/4" |
| 13. Sensor tube | 8 mm |
| 15. Solar circuit flow | 1" |
| 16. Solar circuit return | 1" |
| 14. Primary return | 1" |

- Diagram shows a 3 way valve for use with heat pump system.
- Commercial boiler applications use a 2 way valve that is not supplied.





| | 50 litre Exp vessel | 80 litre Exp vessel |
|-----------------------|---------------------|---------------------|
| A = Height | 604mm | 729mm |
| B = Diameter | 409mm | 480mm |
| C = connection height | 104mm | 152mm |
| D = feet span c/c | 293mm | 351mm |

Additional performance data

Indirect coil ratings in kW

| Nominal capacity | Primary flow rate (l/min) | | |
|--------------------------------|---------------------------|------|-------|
| | 15 | 30 | 60 |
| VIH RW GB 500 BES | 36,2 | 50,5 | 71,4 |
| VIH RW GB 800 BES | 54,3 | 74,5 | 104,7 |
| VIH SW GB 500 BES - Upper coil | 35,0 | 52,3 | 77,2 |
| VIH SW GB 500 BES - Lower coil | 19,2 | 29,8 | 39,9 |

Pressure drop across coil in Bar

| Nominal capacity | Primary flow rate (l/min) | | |
|--------------------------------|---------------------------|------|-----|
| | 15 | 30 | 60 |
| VIH RW GB 500 BES | 0,02 | 0,03 | 0,2 |
| VIH RW GB 800 BES | 0,006 | 0,02 | 0,1 |
| VIH SW GB 500 BES - Upper coil | 0,01 | 0,03 | 0,1 |
| VIH SW GB 500 BES - Lower coil | 0,01 | 0,03 | 0,1 |

| Peak performance (calculated) | Unit | Single coil | Single coil | 500 TC | 500 TC |
|---------------------------------|--------|-------------|-------------|------------|------------|
| | | 500 | 800 | upper coil | lower coil |
| Peak performance (10 min) @60°C | Litres | 421 | 604 | 230 | 400 |
| Peak performance (10 min) @40°C | Litres | 702 | 1007 | 380 | 670 |
| Peak performance (60 min) @60°C | Litres | 842 | 1208 | 460 | 400 |
| Peak performance (60 min) @40°C | Litres | 1404 | 2014 | 1000 | 1100 |

The capacity within 60 minutes is based on the fact that the water can reach temperature level two times.