

# GALÚ

 innovative accumulator tanks

 GALÚ



GALÚ Accumulator Tanks are designed to optimise energy production, storage and distribution of energy produced for domestic hot water and heating. Water has excellent heat retention capabilities, therefore the choice of hot water tank is crucial to maximise the energy saving potential.

Installing a GALÚ accumulator tank will significantly increase the efficiency of the heating system and as a result reduce energy costs and minimise harmful emissions. The tank operates independently of the heating system and can work alongside any range of heat sources incl: oil, gas, electricity, solar, biomass, heat pumps etc or any combination of these.

A GALÚ accumulator tank is ideal for modern living, as it preserves the energy accumulated until it is required.

A GALÚ accumulator tank produces consistent warmth to your home, hot water on demand and is designed to reduce fuel costs and therefore limit harmful emissions.

GALÚ produces a large range of tanks from 250 litres to 200,000 litres and can be made to order to suit any range of installation variables. GALÚ also manufactures tanks for renovation projects specific to the customers requirements.

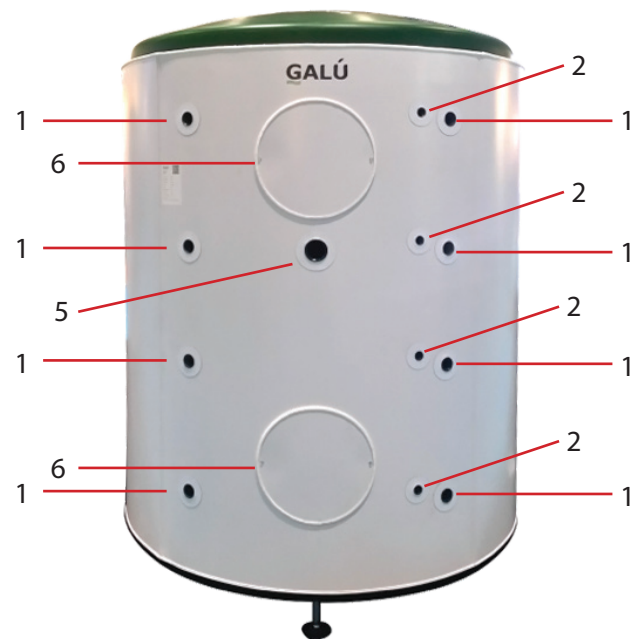
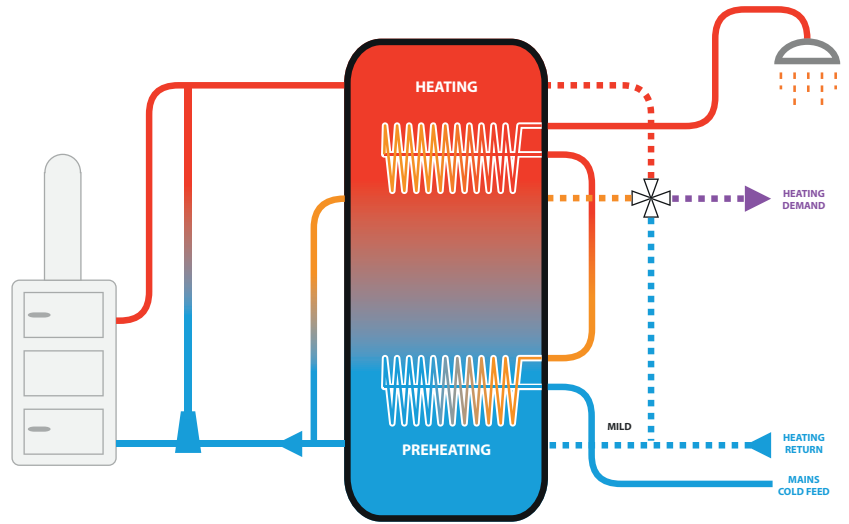


The GALÚ Classic Accumulator Tank facilitates the distribution of energy to a heating system and can provide domestic hot water (models with coils installed). With biomass the best efficiency is acquired by heating at high temperatures to get all components of the wood burnt. The GALÚ accumulator tank enables biomass boilers to reach their highest levels of efficiency.

The GALÚ tank can be supplied with coils or blank hatches. Enabling the installation of retrofit domestic hot water or solar coils for example at a later date.

Each GALÚ tank is wrapped in a layer of polyurethane insulation of 100mm thick (increased thickness on request). This guarantees maximum retention of the energy produced from all heat sources. Energy can be stored for days, even weeks with minimum heat loss.

Standard pressure rating is 3 bar however 6 bar pressure is also available.



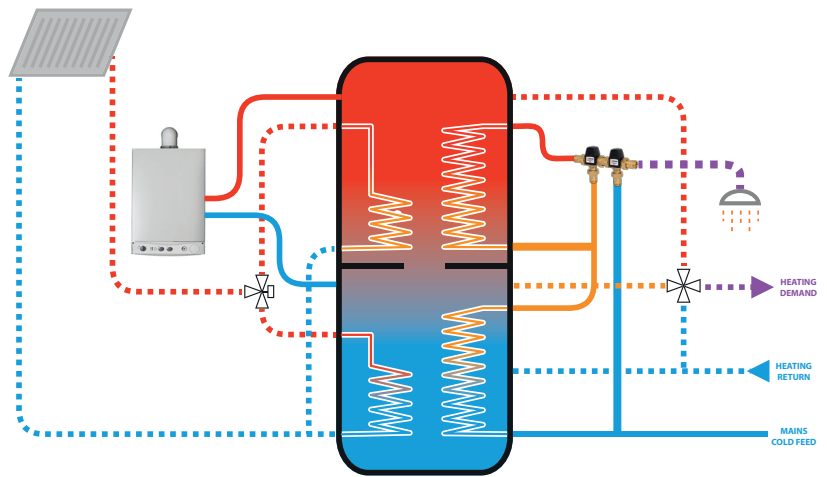
| Number | Couplings     | Size | Other info        |
|--------|---------------|------|-------------------|
| 1      | Flow & Return | 2"   | 1¼" ≤ 1500L       |
| 2      | Wet Pocket    | ½"   |                   |
| 3      | Drain         | 2"   | 1" ≤ 1500L        |
| 4      | Vent          | 1"   |                   |
| 5      | Resistor      | 2"   | Optional Addition |
| 6      | Coil Hatch    | 2"   | Optional Addition |

| Type  | Diameter | Height | Approx. Weight | Capacity | Standing Loss | Energy Class |
|-------|----------|--------|----------------|----------|---------------|--------------|
| 300   | 700      | 2050   | 150kg          | 281.7    | 68            | B            |
| 500   | 800      | 2050   | 175kg          | 449.4    | 82            | B            |
| 750   | 950      | 2050   | 200kg          | 746.4    | 94            | B            |
| 1000  | 1050     | 2100   | 220kg          | 956.3    | 104           | B            |
| 1500  | 1250     | 2150   | 320kg          | 1487.2   | 140           | C            |
| 2000  | 1400     | 2200   | 375kg          | 1968.4   | 159           | C            |
| 2500  | 1500     | 2250   | 385kg          | 2500     | -             | -            |
| 3000  | 1600     | 2300   | 390kg          | 3000     | -             | -            |
| 4000  | 1800     | 2350   | 650kg          | 4000     | -             | -            |
| 5000  | 2000     | 2500   | 800kg          | 5000     | -             | -            |
| 6500  | 2200     | 2550   | 950kg          | 6500     | -             | -            |
| 8000  | 2200     | 3050   | 1200kg         | 8000     | -             | -            |
| 10000 | 2400     | 3150   | 1500kg         | 10,000   | -             | -            |

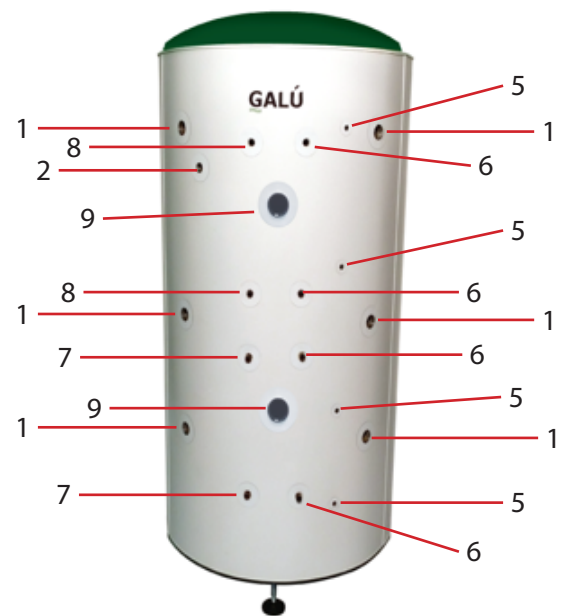
Solar is an excellent source of energy and offers significant savings to fuel bills. The installation of a GALÚ Solar Tank will ensure that you make the most of the solar energy gained. The tank will prioritise the use of the solar energy above all other heat sources. When there is adequate solar energy available the other heat sources will not be activated.

Solar energy can contribute to a building's energy requirements all year round. The GALÚ Solar Tank will direct the solar gain to provide domestic hot water and to contribute to the central heating system. An alternative heat source will be called upon during periods of low solar power.

The installation of a GALÚ Solar Tank will effectively enable the distribution of heat from Solar and all other heat sources to provide central heating and hot water in the most energy efficient way.



| Number | Couplings           | Size | Other info        |
|--------|---------------------|------|-------------------|
| 1      | Flow & Return       | 2"   | 1¼" ≤ 1500L       |
| 2      | Wet Pocket          | ½"   |                   |
| 3      | Drain               | 2"   | 1" ≤ 1500L        |
| 4      | Vent                | 1"   |                   |
| 5      | Dry Pocket          |      |                   |
| 6      | DHW Coil            | 22mm |                   |
| 7      | Solar Coil          | 22mm |                   |
| 8      | Advanced Solar Coil | 22mm | Optional Addition |
| 9      | Resistor            | 2"   | Optional Addition |

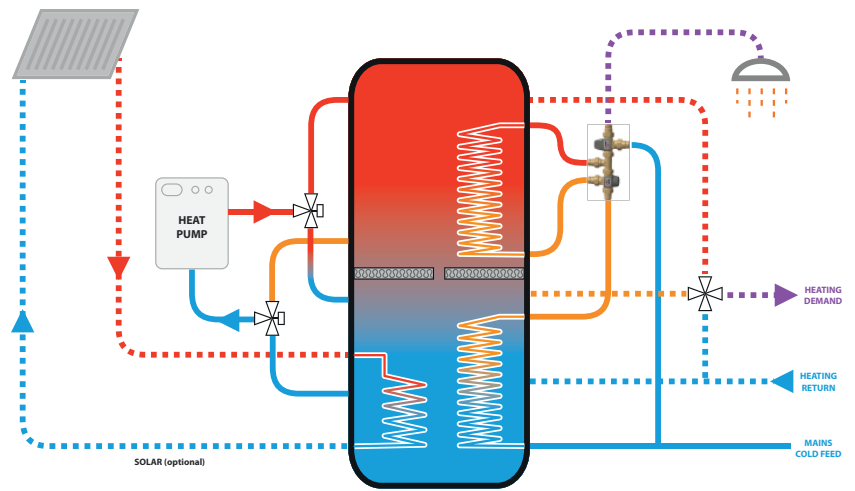


| Type | Diameter | Height | Approx. Weight | Capacity | Standing Loss | Energy Class |
|------|----------|--------|----------------|----------|---------------|--------------|
| 300  | 700      | 2050   | 160kg          | 278.2    | 68            | B            |
| 500  | 800      | 2050   | 200kg          | 445.9    | 82            | B            |
| 750  | 950      | 2050   | 250kg          | 742.9    | 94            | B            |
| 1000 | 1050     | 2100   | 300kg          | 952.8    | 104           | B            |
| 1500 | 1250     | 2150   | 325kg          | 1483.7   | 140           | C            |
| 2000 | 1400     | 2200   | 375kg          | 1969.6   | 159           | C            |
| 2500 | 1500     | 2250   | 385kg          | 2500     | -             | -            |
| 3000 | 1600     | 2300   | 400kg          | 3000     | -             | -            |
| 4000 | 1800     | 2350   | 650kg          | 4000     | -             | -            |
| 5000 | 2000     | 2500   | 800kg          | 5000     | -             | -            |

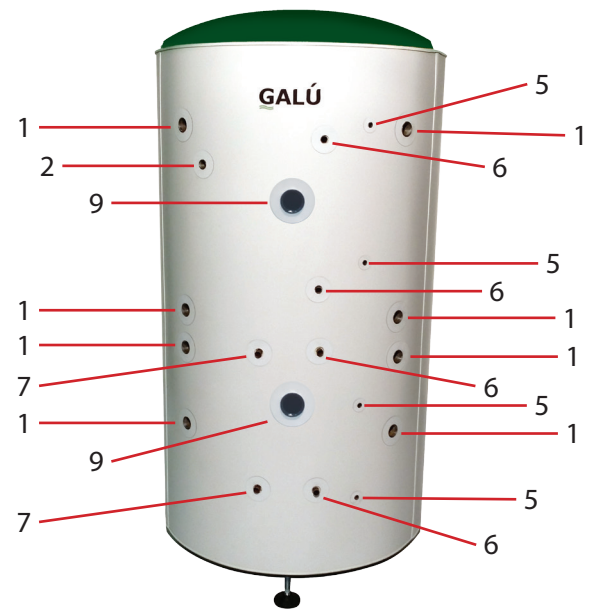
The GALÚ Heat Pump Accumulator has been designed to provide the most efficient storage and distribution of energy where a heat pump is the primary or a contributory heat source.

The tank is designed to optimise the coefficient of performance (COP) of the heat pump providing central heating and domestic hot water.

The upper section of the cylinder is divided by an insulated baffle plate. Hot water 53-60 degrees is stored in the upper section while energy from the low temperature heat source is stored in the lower section. Efficiency is maximized by preheating the dhw in the lower section where the COP is highest. This therefore minimises energy consumption from the upper section of the cylinder. The large lower section of the cylinder also minimises cycling of the heat-pump and can thermally store energy produced during times of cheap rate electricity for later use during the day.



| Number | Couplings           | Size | Other info        |
|--------|---------------------|------|-------------------|
| 1      | Flow & Return       | 2"   | 1¼" ≤ 1500L       |
| 2      | Wet Pocket          | ½"   |                   |
| 3      | Drain               | 2"   | 1" ≤ 1500L        |
| 4      | Vent                | 1"   |                   |
| 5      | Dry Pocket          |      |                   |
| 6      | DHW Coil            | 22mm |                   |
| 7      | Solar Coil          | 22mm |                   |
| 8      | Advanced Solar Coil | 22mm | Optional Addition |
| 9      | Resistor            | 2"   | Optional Addition |



| Type | Diameter | Height | Approx. Weight | Capacity | Standing Loss | Energy Class |
|------|----------|--------|----------------|----------|---------------|--------------|
| 300  | 700      | 2050   | 160kg          | 279.9    | 68            | B            |
| 500  | 800      | 2050   | 200kg          | 445.6    | 82            | B            |
| 750  | 950      | 2050   | 250kg          | 742.6    | 94            | B            |
| 1000 | 1050     | 2100   | 300kg          | 952.4    | 104           | B            |
| 1500 | 1250     | 2150   | 325kg          | 1483.4   | 140           | C            |
| 2000 | 1400     | 2200   | 375kg          | 1969.2   | 159           | C            |
| 2500 | 1500     | 2250   | 385kg          | 2500     | -             | -            |
| 3000 | 1600     | 2300   | 400kg          | 3000     | -             | -            |
| 4000 | 1800     | 2350   | 650kg          | 4000     | -             | -            |
| 5000 | 2000     | 2500   | 800kg          | 5000     | -             | -            |

GALÚ have invested further in production equipment enabling tank production of much greater volumes to our competitors. Colossus is now an increasingly popular model choice. This is perhaps due to the growing market share of boilers greater than 500kw. GALÚ Colossus has superior heat retention capabilities, especially due to the fact that customers can specify u-value requirements.

Pre-insulated and pre-finished, Colossus minimises on site works. This has proven a large benefit to many customers due to speed of installation and little additional site works (insulating and cladding like other suppliers).

Colossus comes with multiple lifting points for offloading and handling. These points are all easily removable once the installation has been completed. A standard being a 3bar working pressure plant room model and 6bar external models are also available, Colossus is truly a big flexible giant.



### Available Additions

| Number | Name                       | Size                  | Other info              |
|--------|----------------------------|-----------------------|-------------------------|
| 1      | Flanged Access Hatch       | To required diameter  | Available at 3 or 6 bar |
| 2      | Sensor Port                | ½"                    |                         |
| 3      | Dry sensor Pocket          | 12mm                  |                         |
| 4      | Threaded Socket            | 1", 1¼", 1½", 2", 2½" |                         |
| 5      | Flanged Connection (PN 16) | 3", 4", 5", 6", 8"    |                         |

| Type   | Diameter | Height |
|--------|----------|--------|
| 10000  | 2400     | 3150   |
| 15000  | 2400     | 4550   |
| 17500  | 2400     | 5200   |
| 20000  | 2600     | 5200   |
| 30000  | 2600     | 7000   |
| 40000  | 3000     | 7300   |
| 60000  | 3500     | 7400   |
| 80000  | 3500     | 9400   |
| 100000 | 4000     | 9800   |
| 200000 | 4300     | 15000  |



GALÚ have become renowned for their bespoke accumulator tanks. With ultimate flexibility in design and manufacturing procedures, lead times are kept to a minimum. Why blank unused ports or compromise on a connection location? GALÚ will make exactly what you require.

GALÚ have developed a unique design software for distributors. This facilitates very fast turnaround on the bespoke units as the design programme is sent directly to our modern network enabled machinery.

Advantages:

- Diameter and height flexibility
- Connection options, make, female, flanges
- Insulation thickness
- Flexible port locations
- Vertical or horizontal tanks
- Heat Exchanger size, location

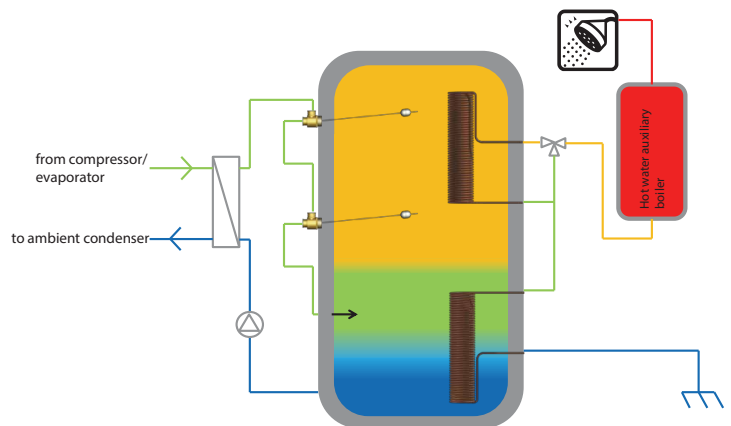


**HEAT RECOVERY TANKS**

GALÚ manufacture a variety of models of accumulator tank to harness rejected heat. This heat can be harnessed from the plant in many commercial environments. Dairy Farms, supermarkets, cold stores, food processing as examples.

GALÚ heat recovery tank is more advanced utilising our Thermo-Differential Valve. This unique 3-way switching valve for stratifying inlet flows into a thermal storage tank, which increases the stratification of the thermal storage tank, thereby improving its efficiency.

The valve is installed directly on a storage tank inlet, where it switches the flow direction of the incoming flow based on the temperature difference between the incoming flow and the temperature inside the tank, directing it either into the tank or through its bypass outlet to a different position in the storage tank.



This way, the flow enters the storage tank at the most appropriate level, with a minimal temperature difference between the inlet flow and the storage tank, so that the stratification of the storage tank is enhanced.

# GALÚ

innovative accumulator tanks



Kildare Road Business Park, Geraldine Road, Athy, Co.Kildare, Ireland

[www.galu.ie](http://www.galu.ie) | [info@galu.ie](mailto:info@galu.ie)