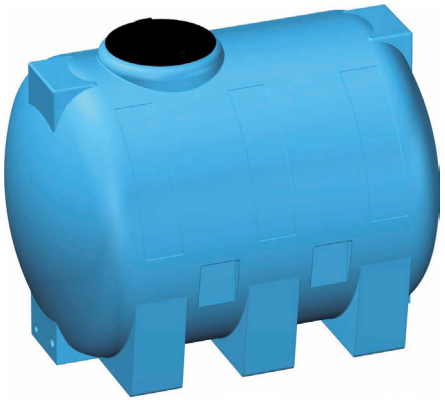
CISTERNA



Type
Above ground tank

Applications
Storing foodstuffs - Water, oil, wine

Volumes
From 300 to 5000 litres

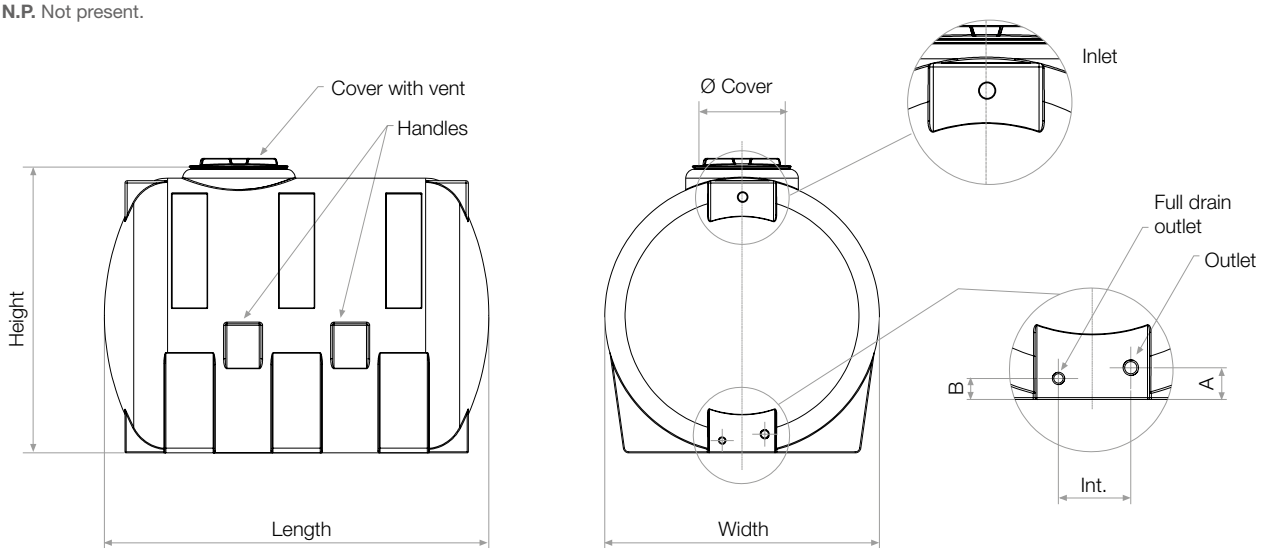
Installation
Simply placed directly on a flat supporting surface

Available colours:

standard	on request
blue	grey
	green
	terracotta

Item	Capacity l	Length cm	Width cm	Height cm	Ø cover cm	Cover	Inlet	Outlet	Full drain outlet	Lifting eye	Threaded insert dimensions cm		
											A	B	Int.
C300	300	113	63	66	21	CS 200	¾"	1"	¾"	-	5	4,2	8
C500	565	120	80	83	21	CS 200	¾"	N.P.	¾"	-	-	4	-
C1000	1020	155	97	104	30	CS 300	1"	1"	¾"	-	7,8	4	11
C1500	1665	170	115	122	40	CS 400	1"	1"	¾"	2	7	4	11
C2000	2200	190	125	132	40	CS 400	1"	1"	¾"	2	7	4	12
C3000	3260	210	145	152	40	CS 400	1"	1"	¾"	2	7	4	12
C5000	5000	220	173	192	63	TAP 800	N.P.	N.P.	N.P.	2	-	-	-

N.P. Not present.



THREADED INSERTS IN GALVANISED BRASS
(on request)

See table at pag. 16

TECHNICAL SECTION – EXTERNAL TANKS

TECHNICAL CHARACTERISTICS

Thanks to rotational moulding technology and the chemical-physical–mechanical characteristics of linear polyethylene (LLDPE), the above ground tanks possess the ideal characteristics for the problem-free storage of large volumes of liquids. Polyethylene, in fact, is totally **non-toxic** and does not foster the growth of algae in the fluids contained in the tanks, thus making the tanks ideal for storing potable water and other foodstuffs. Furthermore, linear polyethylene also supports sudden changes in temperature (from -20 to + 80 °C) and is **inert** in the presence of chemical and physical atmospheric agents. For these reasons, there are no material oxidation or corrosion problems that would prejudice the mechanical characteristics and impermeability of the tanks. These characteristics are also guaranteed by the fact that rotational moulding allows **one-piece tanks** to be produced, i.e. free of welds that could weaken parts of the tanks subjected to internal stresses. Furthermore, while possessing the same characteristics as other materials (cement, fibreglass, metal), tanks in polyethylene are much **lighter**, and as such transport, installation and maintenance are extremely simple and economic. Finally, polyethylene tanks **can be bored** when the need arises, for example when connecting tanks together, installing inlet/outlet pipes, overflows, etc. ROTOTEC supplies a wide range of tank models for outdoor use of capacities ranging from 50 to 14300 litres. The various forms of the tanks are designed to create storage facilities even in locations where installation space is restricted (e.g. cellars, attics, stairwells…). Thanks to the **flanged joints or brass/plastic pipe unions** mounted on the appropriate flat areas, the various tanks can be connected together to obtain larger storage volumes. Each tank is equipped with a threaded or hinged **inspection cover**, and many models are fitted with **discharge and full drain outlet holes**. The standard colour of outdoor tanks is blue. Other colours are also available on request, such as Green, Black, Terracotta and Grey. Finally, on request, above ground tanks can also be equipped with the appropriate **pumps** for delivering the stored water at the flow rates, pressures and heads needed for the various applications.

APPLICATIONS

The characteristics previously mentioned render the outdoor tanks ideal for:

- **Storing potable water or other liquids** in areas either outside or inside residential properties;
- **Creating large volumes of stored water** for fire-fighting, washing or irrigation plants;
- **Creating lift stations** for pumping water to higher levels;
- **Collecting and storing rainwater** for re-use in irrigation or washing

WARNINGS

In order to ensure that the characteristics of the tanks remain unaltered over time, that the stored substances do not deteriorate and that the ROTOTEC guarantee remains valid (25 years against full-depth corrosion) the following instructions must be carefully followed:

- **The above ground tanks must not, under any circumstances, be installed underground**;
- **Prior to installation, carefully check the integrity of the tanks** and the tightness of the gaskets;
- Do not install the tanks near to sources of heat;
- **The tanks must be positioned on a flat, stable** surface;
- When installing the tanks, to prevent the formation of algae, make sure that no light can filter in;
- Use flexible hoses when connecting to the water system in order to prevent stresses during tank filling and emptying;
- Do not leave the tank without its cover for any length of time;
- In the case of rainwater storage, it is advisable to install a filter chamber upstream of the tank to prevent a build-up of grit, silt, leaves, etc. inside the tank;
- **For storing fluids not expressly indicated in this catalogue (page 262), contact the technical office**;
- Place the tanks in easily reachable locations and avoid constructing parts in brickwork that could interfere with replacement or maintenance operations;
- When installing a pump, internally or externally, fit a suitable sized vent on the tank to prevent the formation of a vacuum when the pump is running.

USE AND MAINTENANCE

- When carrying out maintenance operations and cleaning of the tank and any components installed inside it, always comply with the requirements indicated in the safety regulations about temporary or mobile work sites;
- keep the area around the tank **free** from any material that might obstruct or impede the maintenance work;
- always work in pairs when carrying out tank inspection and cleaning operations, and wear suitable safety equipment;
- check the tank **every 6 months**. If any sediment is found on the floor, extract it and clean the tank carefully using a normal domestic detergent. If any foreign bodies are found, disinfect the tank thoroughly;
- check that any PVC inlet, outlet, overflow pipes or brass or plastic filling, drainage, full drain connectors are not blocked by large solids that prevent the passage of the fluid in the tank. If any sediment is found, it must be removed;
- check **every 6 months** to ensure that pipes, connectors and gaskets are sealed;
- periodically check that the vent serving the pump and installed on the tank is free. If it is blocked it must be cleaned.