

Environmental

All New
Pump Range
with High Capacity
24hr Storage

Pumpstor²⁴

A Range of High Capacity Pumping Systems
for Domestic & Commercial Applications



Sustainable, Reliable, Affordable



Kingspan[®]

Klargester Pumpstor24

A Range of High Capacity Pumping Systems for Domestic & Commercial Applications

As the specification by Municipal Agencies has increased over the years, emergency storage requirements have become a mainstay for most applications in line with current legislation.

To accommodate this, Klargester Environmental has specifically developed a range of pumping stations which incorporate storage requirements which can be expanded to cater for most applications.



Designed for Quality, Reliability & Peace of Mind

The 2.6m Pumpstor24 horizontal pumping station is manufactured from robust GRP and incorporates 100mm reinforcing ribs at 770mm intervals. The construction has an 8mm nominal wall thickness to provide a durable and rigid tank system.

Pumpstor24 is designed as a single piece chamber with two separate sections, one for normal operation and one for emergency storage if required. An integral baffle wall separates the pump well and the storage chamber of the holding tank section. Within this baffle wall is a high level overflow filter system to facilitate use of the emergency storage in the event of power failure or pump failure/blockage.

Overflow is screened to 12mm particle size to prevent floating debris and grease from passing from the sump to the holding tank, thereby removing the need for cleaning of the storage tank. Additionally, the screening process ensures that sedimentation and sewage degradation does not occur within the storage end of the chamber. Many single piece horizontal tanks suffer from collection of solids and the associated septic sewage and odour problems that occur. Pumpstor24 has eliminated these problems with its separate chamber sections and filtration system.

When the emergency storage is used, the return of the pumped liquid is automatic. The integral baffle wall features a non-return valve at low level allowing the flow to return to the sump when the system resumes normal operation.

Pumpstor24's simple design and construction offers ease of access from ground level, removing the need to enter the tank for maintenance and cleaning.

Applications

The system range is suitable for the following applications:

- Housing developments with up to 24hr storage requirements (10 - 500 houses)
- Commercial developments
- Industrial developments
- Hotels and restaurants
- Caravan and camping sites

Features

- Manufactured in Ireland
- Single tank installation up to 80m³ (multiple tank systems available)
- Multiple valve chamber location and invert options
- Weir screen features innovative removable filters – eliminates the need to access the chamber during maintenance
- Unique weir screen cleaning facility removes need to access the chamber during maintenance
- High level alarm (as applicable)
- Totally sealed system
- Factory pre-fabricated under controlled conditions to ensure consistent high quality construction
- Minimal on-site assembly

Benefits

- Easy to install - one piece tank chamber
- Less craning requirements compared to concrete pumping stations
- On-site Health & Safety issues are minimised - no requirement for personnel to enter the tank during excavation on-site to complete installation work
- Reduced maintenance - easy cleaning out of holding tank
- Shallower excavation compared to concrete pumping stations

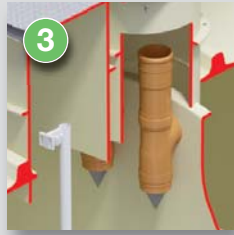
The comprehensive range of quality pumps offers solutions for most applications. Pump sizes range from 0.35kW to 12kW for the standard package pumping system.



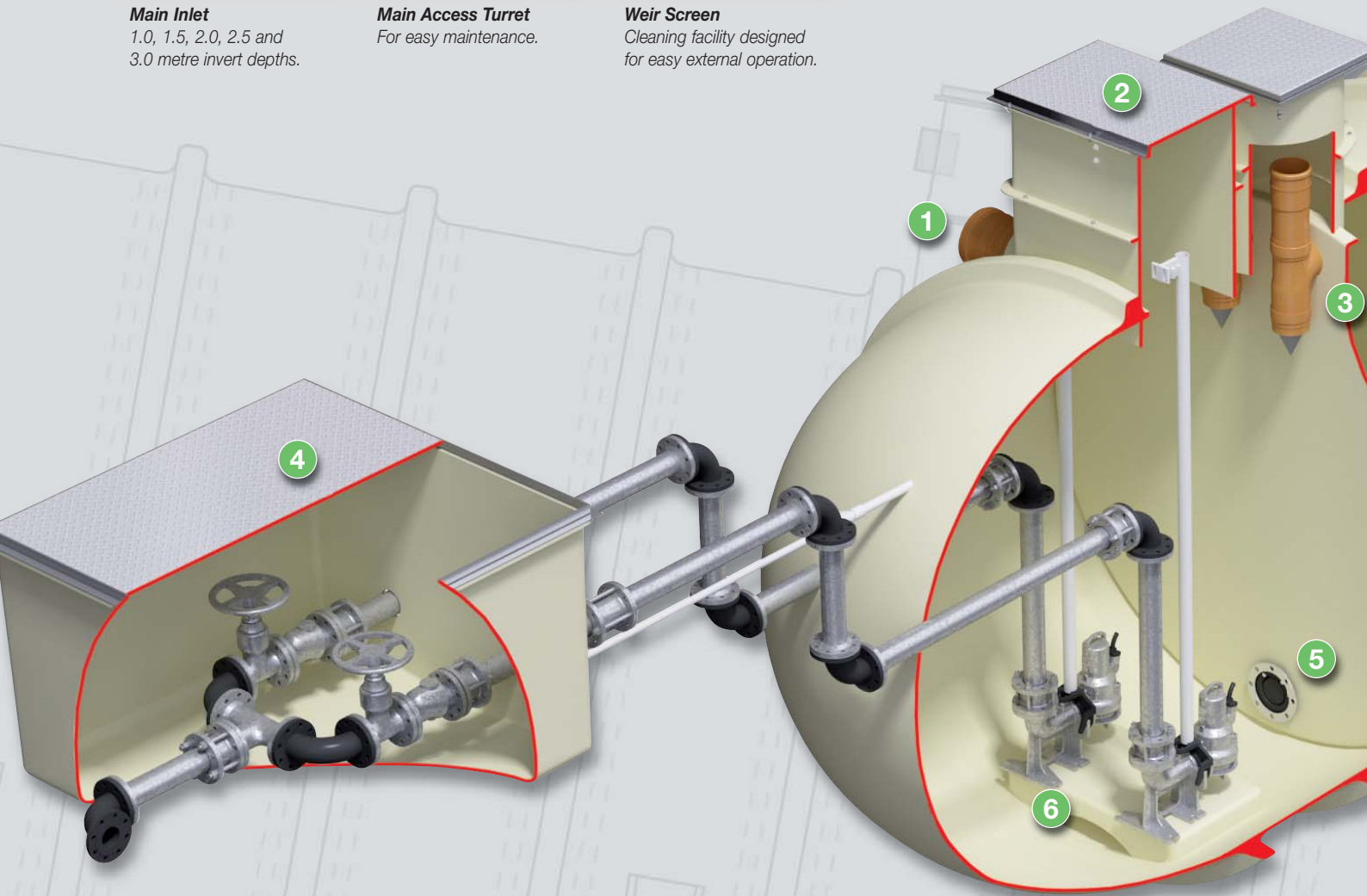
Main Inlet
1.0, 1.5, 2.0, 2.5 and
3.0 metre invert depths.



Main Access Turret
For easy maintenance.



Weir Screen
Cleaning facility designed
for easy external operation.



Overall length



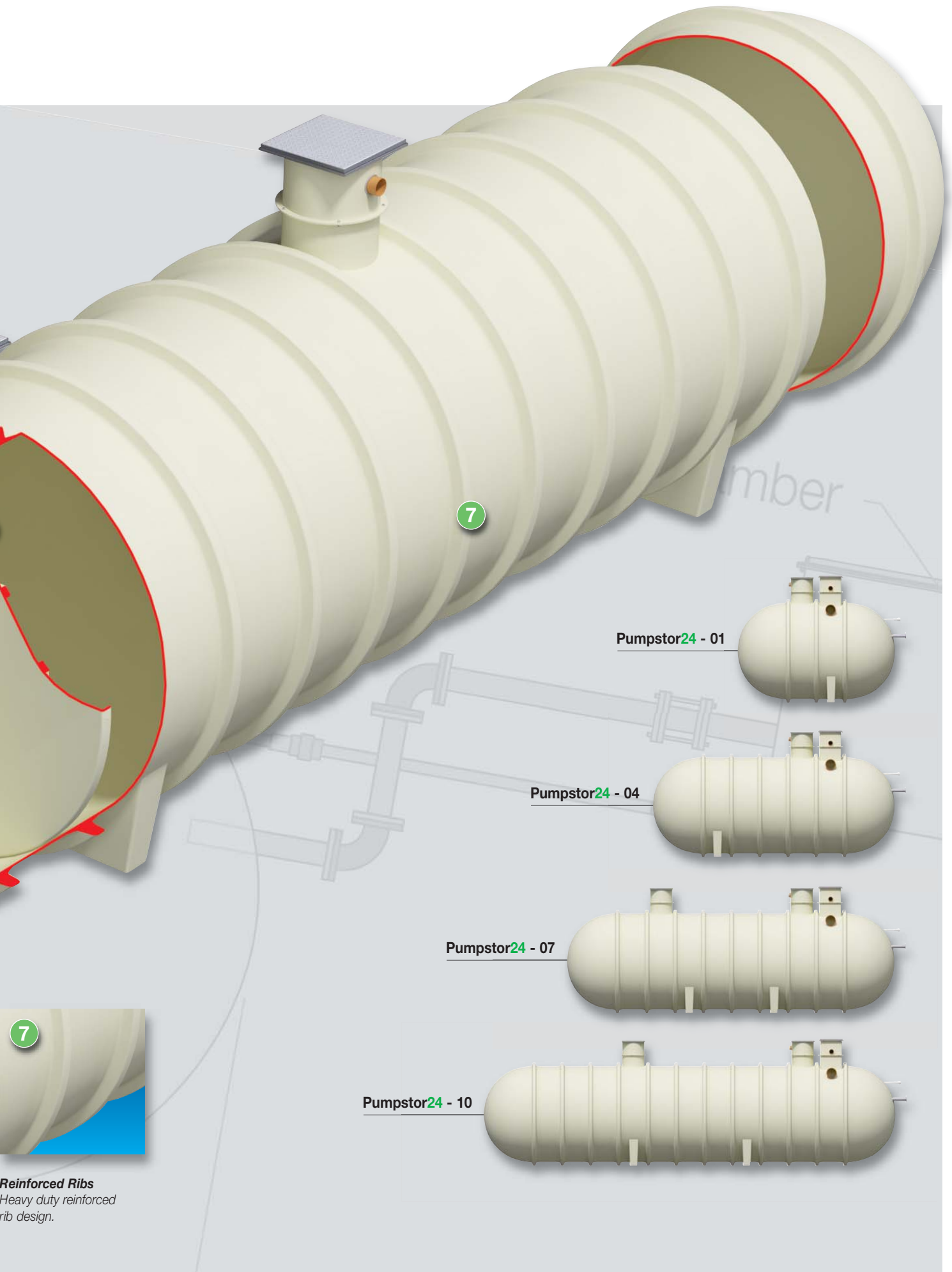
Valve Chamber
Multiple location options.



Non-return Valve
Allows return flow to sump.



Pump Pedestal
Shallow sump reduces
standing residue.



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Pumpstor24 - 01

Pumpstor24 - 04

Pumpstor24 - 07

Pumpstor24 - 10

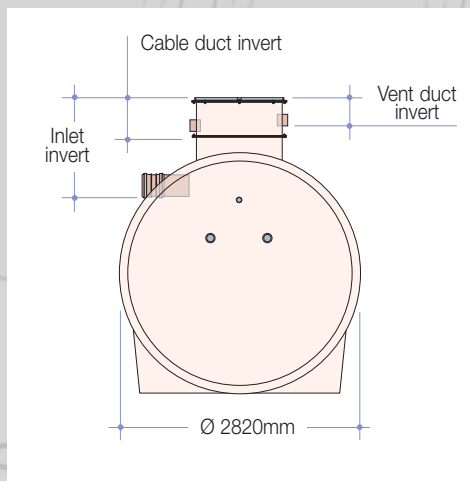
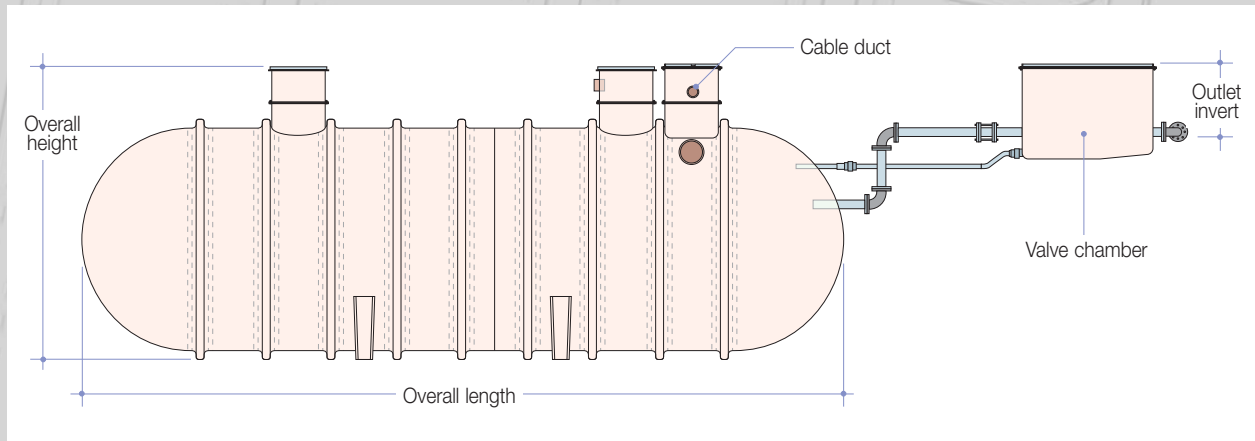
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Reinforced Ribs
Heavy duty reinforced rib design.

Pump Chamber Size and Storage Data

Model	Overall Length (mm)	Wet Well Volume (ltr)	Total Storage Capacity (ltr)	24 Hour Storage Capacity including Wet Well Volume (approx)		
				0.5-2.0m Inlet Height (ltr)	2.5m Inlet Height (ltr)	3.0m Inlet Height (ltr)
PSTOR24-01	4,317	11,400	18,213	17,394	13,859	9,159
PSTOR24-02	5,073	11,400	22,227	21,151	16,234	11,166
PSTOR24-03	5,837	11,400	26,283	24,947	19,820	13,194
PSTOR24-04	6,602	11,400	30,344	28,747	22,820	15,225
PSTOR24-05	7,376	11,400	34,353	32,593	25,856	17,280
PSTOR24-06	8,150	11,400	38,563	36,439	28,891	19,335
PSTOR24-07	8,917	11,400	42,635	40,250	31,899	21,371
PSTOR24-08	9,684	11,400	46,707	44,060	34,907	23,407
PSTOR24-09	10,453	11,400	50,791	47,881	37,923	25,448
PSTOR24-10	11,222	11,400	54,873	51,702	40,939	27,490
PSTOR24-11	13,527	11,400	67,111	63,154	49,979	33,609
PSTOR24-12	15,065	11,400	75,277	70,796	56,011	37,692
PSTOR24-13	15,883	11,400	79,354	74,612	59,023	39,730

Pump Chamber Dimensions



Key Points to Consider

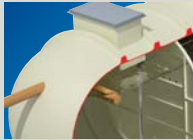
Klargester Environmental have a team of pump experts on hand to advise you on the correct product for your site. All we need from you is information on key factors such as:

- Application: e.g. domestic residential/commercial
- Sewage, effluent or surface water?
- Inlet depth (below ground level)
- Pumping distance + lift
- Electrical supply

For further guidance on the measurements and sizing data required, simply give us a call. Once completed our team will provide you with a solution.

Contact our Technical Department for further information (see contact details on the back of this brochure).

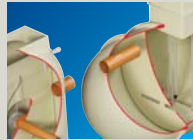
Kingspan Environmental Solutions



Commercial Sewage Treatment Plants



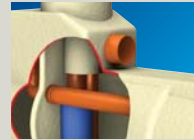
Large Capacity Pumping Stations



Stormwater Attenuation Systems



Residential & Commercial Rainwater Harvesting



Oil/Water Separators



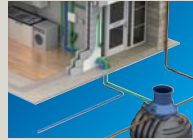
Domestic Sewage Treatment Plants



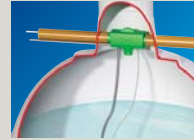
Packaged Pump Systems



Reed Beds



Domestic Rainwater Harvesting



Garden Watering Systems



Septic Tanks



Below Ground Storage Tanks



Grease & Silt Traps



Packaged Drainage Systems

Other Applications

As specialists in wastewater we are able to provide solutions for many different applications. Please contact us for further information.



Accredited to
BS EN ISO 9001: 2008
BS OHSAS 18001: 2007



Kingspan Environmental Service

Who better to look after your wastewater product than the people who designed and built it?

Kingspan Environmental have a dedicated service division providing maintenance for wastewater and rainwater products.

Factory trained engineers are available for site visits as part of a planned maintenance contract or on a one-off call out basis.

To find out more about protecting your investment and ensuring peace of mind, contact us on **(NI) 028 302 54077**, **(IRL) 048 302 54077** or visit us online at **www.kingspanenvservice.com**



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Klargester is part of Kingspan Environmental.

In keeping with Company policy of continuing research and development and in order to offer our clients the most advanced products, Kingspan Environmental reserves the right to alter specifications and drawings without prior notice.

