

# Plastic storage tanks

for tank systems from 570  
to over 20,000 liters

PROCESS WATER

SPLASH WATER IN SWIMMING POOL CONSTRUCTION

ADBLUE

RAIN AND GREYWATER

COOLANT

LIFTING STATIONS

OSMOSIS

CONCRETE ADDITIVES

PERMEATE  
EXTINGUISHING WATER



**DEHOUST**

ENERGY. HEAT. WATER.

# Wide range of applications

DEHOUST standard tanks from 570 to 4,000 liters represent a cost-effective alternative to custom-made products for a wide range of industrial and commercial applications. Additional installations and extensions, flexible connections and, last but not least, double walls – in case they are needed – make these containers real problem solvers.

Below are some applications



Extinguishing water supply



Lubricant reservoir and day tank



Concrete and mortar additives



AdBlue® (DEF) and radiator antifreeze

# Our storage tanks for a wide range of media

**DEHOUST plastic storage tanks have excellent properties and have been extensively tried and tested in the field. How our containers are used is determined by our customers in combination with our technology. Some features are supported by approvals and official confirmations. Many areas of application are based on positive experience.**

## Excerpt from the media lists of our DIBt approvals:

Storage medium	PE-Catch basins Z-40.22-152	DF Storage containers Z-40.21-138	DF KB Storage containers Z-40.21-138	Combi Z-40.21-53	TrioSafe Z-40.21-310	AQF Storage tanks
Heating oils in accordance with DIN 51603 with biogenic additives up to 30 % and paraffinic oil (e.g. GTX, HVO)		X	X	X	X	
Diesel fuel in accordance with DIN EN 590, biodiesel DIN EN 14214 and paraffinic diesel (HVO) DIN EN 15940		X	X	X	X	
Lubricating, hydraulic, heat transfer oils Q, fresh and used, burning point > 55 °C	> 100 °C	X	X	X	X	
Vegetable oils such as cottonseed, olive, canola, castor or wheat germ oil in any concentration (not used as food)	X	X	X	X	X	
Ethylene glycol (CH <sub>2</sub> OH) used as an antifreeze for radiators	X	X	X		X	
Photographic chemicals (commercially available) in use concentration (new and used)	X		X		X	
Ammonia water (solution) NH <sub>4</sub> OH, to the saturated solution	X	X	X		X	
Pure urea solution 32.5 % as NOx reducing agent (e.g. AdBlue) in accordance with DIN 70070	X		X		X	
Concrete additives in accordance with DIN EN ISO 934-2	X	X	X		X	
Water solutions of organic acids up to 10 %	X					
Mineral acids up to 20 % and acidic hydrolyzing salts in water solution (pH < 6)	X					
Inorganic alkalis and alkaline hydrolyzing salts in water solution (pH > 8)	X					
Solutions of inorganic non-oxidizing salts with a pH value between 6 and 8	X					

Please note the information in the respective approvals  
<https://www.dehoust.com/en-001/Certificates>



	PE-catch basins	DF Storage containers	DF KB Storage containers	Combi	TrioSafe	AQF Storage containers
Drinking water installation in accordance with KTW assessment basis		X	X		X	X

# Plastic tanks and PE catch basins

## Storage tanks for fresh and used oils, coolant, ethylene glycol and concrete additives



The DIBt approval confirms suitability of single-walled plastic tanks for various media (see list page 3).



### Wide range of uses and applications

Plastic storage tanks are made of HD-PE using the blow molding method. They are an inexpensive solution when it comes to storing liquids that are hazardous to water.

The required secondary protection is provided by our catch basins which are approved under building and water law, or by a catch basin provided by the customer (see chart on page 15).



### PE storage tanks with galvanized reinforcements, dome DN 400

Z-40.21-138



Article no.	Description	Dimensions mm (LxWxH)	Weight
971253	PE 2000 D	2,070 x 720 x 1,690	110 kg
971605	PE 2500 D	1,870 x 995 x 1,650	115 kg
971593	PE 3000 D	2,230 x 995 x 1,650	165 kg
971589	PE 4000 D	2,430 x 995 x 1.950	235 kg

## Plastic tanks and PE catch basins for AdBlue® (DEF)



In many AdBlue® (DEF) stations, PE storage containers from DEHOUST ensure safe storage.

Containers and catch basins have DIBt approval.

TrioSafe are also approved by DIBt



PE storage tanks with additionally coated reinforcements Z-40.21-138

Article no.	Description	Dimensions mm (LxWxH)	Weight
971293	PE 1100 D KB	1,400 x 720 x 1,400	55 kg
971597	PE 2000 D KB	2,070 x 720 x 1,690	110 kg
971596	PE 2500 D KB	1,870 x 995 x 1,650	115 kg
971595	PE 3000 D KB	2,230 x 995 x 1,650	165 kg
971590	PE 4000 D KB	2,430 x 995 x 1,950	235 kg

Coated reinforcements are necessary for photographic chemicals and AdBlue® (DEF)



PE catch basins for AdBlue® (DEF) tanks Z-40.22-152

Article no.	Description	Dimensions mm (LxWxH)	Weight
930105	PE-W 2000 AdBlue®	2,470 x 1,120 x 1,360	255 kg
930097	PE-W 2500 AdBlue®	2,250 x 1,400 x 1,360	270 kg
930098	PE-W 3000 AdBlue®	2,600 x 1,400 x 1,360	290 kg
930099	PE-W 4000 AdBlue®	2,800 x 1,400 x 1,610	325 kg

# Double-walled storage and collection tanks

## Fresh and used oils, lubricants, radiator antifreeze and AdBlue® (DEF)



For reasons relating to ecology and economics, more and more liquid raw and operating materials are being delivered in tankers. This approach reduces packaging waste.

The safe storage of these liquids in factories and businesses is becoming increasingly important.

The double-walled storage and collection tanks from DEHOUST have all the necessary approvals e.g. for fresh and used oils, radiator antifreeze and the TrioSafe series also for AdBlue® (DEF).



### Double-walled plastic storage tanks

#### TrioSafe storage tanks with cleaning opening

Z- 40.21-310

Article no.	Description	Dimensions mm (LxWxH)	Weight
961509	Storage tank TrioSafe 750 with cleaning opening	780 x 780 x 1,710	44 kg
961515	Storage tank TrioSafe 1000 with cleaning opening	810 x 810 x 1,990	56 kg
961546	Storage tank TrioSafe 1100 with cleaning opening	1,580 x 780 x 1,360	62 kg
961536	Storage tank TrioSafe 1500 with cleaning opening	1,580 x 780 x 1,740	76 kg

The PE storage tank TrioSafe with cleaning opening is the perfect solution when it comes to easy cleaning of containers and the insertion of small mixers or submersible pumps, for example.



Used oils are collected and stored safely in collection tanks until they are collected. Here is an example with a closable funnel based on the PE CombiTank.

#### More information:



## Diesel, heating oil and lubricants in plant engineering



Pilot Project University Police Baden-Württemberg in Biberach ©DUC KEK Ulm

The outstanding properties of the PE Kombi tanks are convincing an ever-increasing number of plant manufacturers.

Various lubricants, oils and fuels needed to start up heating systems, for example, can be stored in the containers using just a small amount of space.

With their compact dimensions, PE Kombi tanks are suitable for installation in containers.



Additional adapter sets deliver a wider range of connection options for measuring and control devices

Tanks for emergency power systems, lubricating oil storage tanks for CHP units and other machines as well as day tanks place higher demands on measurement and control equipment.

With our adapter set and special combinations, we take this into account and enable the use of the PE Kombi tanks and TrioSafe tanks for use as day tanks and storage tanks.



### PE Kombi storage tank

Z-40.21-53

Article no.	Description	Dimensions mm (LxWxH)	Weight
961301	PE Kombi 720 VS	1.100 x 700 x 1.200	68 kg
961302	PE Kombi 1000 VS	1.100 x 700 x 1.600	84 kg

Also ideal for use as a company filling station

More information:



Adapter set:



# PE DF 1,100 to 4,000 litres in black

## Process tanks in plant engineering, domestic installations and fire extinguishing systems



The black PE containers, ranging from 570 to 4,000 liters, frequently replace containers that are individually manufactured at considerable expense.

They are used in building services and industrial plants, for example as collection tanks for wastewater, process water, and non-pressurized storage tanks.



The coloring protects the stored media from UV rays and light and thus from germ formation and rapid ageing.

Special colors are possible depending on the lot size.

### PE storage container DF black

Article no.	Description	Dimensions mm (LxWxH)	Weight
971301	PE 1100 DF black	1,400 x 720 x 1,400	55 kg
971303	PE 1500 DF black	1,560 x 720 x 1,640	70 kg
971305	PE 2000 DF black	2,070 x 720 x 1,690	110 kg
971306	PE 2500 DF black	1,870 x 995 x 1,650	115 kg
971307	PE 3000 DF black	2,230 x 995 x 1,650	165 kg
971309	PE 4000 DF black	2,430 x 995 x 1,950	235 kg

More information:



# AQF 690 to 1,000 litres in black

## Water recycling and service water tanks



The economical use of water as a resource is also becoming increasingly important in industry and commerce.

In cleaning systems such as car washes, water can be reused multiple times if it is collected in suitable containers and cleaned.

AQF tanks are used in osmosis systems to save space and serve as intermediate storage for desalinated water (permeate).



With tanks ranging from 570 to 1,500 liters, with a hand hole and 2" connections or with a large opening for filters and easy filling, the AQF product range offers solutions for a wide variety of applications.

The AQF containers are available directly from stock in black and blue. Special colors, depending on quantity, upon request.

## PE storage container AQF black

Article no.	Description	Dimensions mm (LxWxH)	Weight
61211	AQF 690 black with upper opening 540 mm and two lower connections S 56x4	720 x 720 x 1,695	23 kg
61215	AQF 690 black with hand hole and 2 connections 2" and two lower connections S 56x4	720 x 720 x 1,695	23 kg
61185	AQF 750 black with hand hole and 2 connections 2" and one lower connection S 56x4	720 x 720 x 1,720	24 kg
61195	AQF 1000 black with hand hole and 2 connections 2" and one lower connection S 56x4	720 x 720 x 2,000	30 kg

More information:



# Storage tanks PE DF ...

## Splash water tanks and storage containers



HD-PE is chemical resistant, physiologically harmless and food safe.



### Wide range of applications

The versatile plastic storage container type PE-DF made of high-quality polyethylene (HD-PE) is suitable for various media.

The PE storage container is optimally designed for indoor storage.

The slight transparency of the natural-colored tanks makes it possible to visually check the fill level at any time.

Article no.	Description	Dimensions mm (LxWxH)	Weight
971294	PE 1100 DF natural	1,400 x 720 x 1,400	55 kg
971295	PE 1500 DF natural	1,560 x 720 x 1,640	70 kg
971253	PE 2000 DF natural	2,070 x 720 x 1,690	110 kg
971605	PE 2500 DF natural	1,870 x 995 x 1,650	115 kg
971593	PE 3000 DF natural	2,230 x 995 x 1,650	165 kg
971589	PE 4000 DF natural	2,430 x 995 x 1,950	235 kg

PE storage tanks with galvanized steel banding, dome DN 400 and bottom connection flange

... for customized solutions

Our specialists manufacture your individual container from our storage tanks



**HDPE**

Flange connections for filling, overflow, pump connection and additional connection of the tanks.



Customized tank systems for raw materials and fuels.

# AQF 570 to 1,500 litres ...

## PE storage tanks for drinking water and process water



AQF plastic storage tanks are made of high quality polyethylene.

The blue coloring makes them ideally suited for the storage of drinking water and process water. The formation of algae is prevented over the long term.



AQF 750 and 1000



CONNECT separation station with large storage container and double pump



AQF 1100 and 1500

## PE storage tanks AQF 570 to 1500 blue

Article no.	Description	Dimensions mm (LxWxH)	Weight
61200	AQF 570 blue with upper opening 540 mm and two lower connections S 56x4	720 x 720 x 1,420	19 kg
61206	AQF 570 blue with cover 240 mm and two connections 2" and two lower connections S 56x4	720 x 720 x 1,430	19 kg
61210	AQF 690 blue with upper opening 540 mm and two lower connections S 56x4	720 x 720 x 1,695	23 kg
61216	AQF 690 blue with cover 240 mm and two connections 2" and two lower connections S 56x4	720 x 720 x 1,700	23 kg
61176	AQF 750 blue with cover 240 mm and two connections 2" and one lower connection S 56x4	720 x 720 x 1,720	24 kg
61196	AQF 1000 blue with cover 240 mm and two connections 2" and one lower connection S 56x4	780 x 780 x 2,000	30 kg
61280	AQF 1100 blue with cover 240 mm and two connections 2" and one lower connection 1 1/2"	1,530 x 760 x 1,350	38 kg
61290	AQF 1500 blue with cover 240 mm and two connections 2" and one lower connection 1 1/2"	1,530 x 760 x 1,730	48 kg

# ... also for batteries for „unlimited“ storage volume

## Tanks for pressure-boosting systems, fire-fighting water storage, rainwater collection and source tapping



### Accessories battery set-up

The lower connection line creates flexible and easy to install tank systems.



The molded flange (closed when delivered) can be drilled out to 70 mm to allow the containers to be connected or flanges to be attached.

Assembly instructions:



### The lower connection enables unlimited volume

You can find out more about the various lower connection options and other useful accessories here: <https://www.dehoust.com/7718>



# Our specialists manufacture your individual container from our storage tanks, ...



Double plastic flange made of PE with GRP loose flange

## Individual solutions from large-scale production

Storage tanks from DEHOUST are very often the inexpensive solution for the storage of liquids thanks to large-scale production on state-of-the-art blow molding lines.

Thanks to the company's own plastics workshop, further installation options and advantages open up for the customer: The specialists at DEHOUST weld in additional nozzles and additional dome DN 600 and attach flanges and distribution pipes.



Connection pipe with 2" female thread

## The right solution for whatever you need

Specially adapted accessories make the use of PE tanks even easier.

Many applications in process technology, swimming pool construction and fire-fighting water technology require large quantities of water in a short period of time; appropriately dimensioned flange connections ensure the right volume flows and also ensure equalization between the tanks. The additional piping is laid without tension.



The tanks can be equipped with DN 600 access dome instead of DN 400.



Containers for water-polluting liquids must not be fitted with additional connections.

# ... Plastic tanks and basins to fit your wishes



PE catch basins

Z-40.22-152

Article no.	Description	Dimensions mm (LxWxH)	Weight
930074	PE-W 2000	2,500 x 1,350 x 760	130 kg
930075	PE-W 2500	2,500 x 1,600 x 760	145 kg
930076	PE-W 3000	2,600 x 1,600 x 910	225 kg
930077	PE-W 4000	3,085 x 1,685 x 1010	265 kg



Catch basins can also be manufactured with intermediate dimensions within the scope of the approval.

The item number leads to the admission and extensive media list.

Our plastic workshop will construct your individual container for you

When the requirements go beyond the serial production:

**Customized round tanks and rectangular tanks made of HD-PE Special plastic container construction** rounds out DEHOUST's range of products and services. Plastic catch basins with test marks and customer-specific rectangular and round tanks are made of PE sheets. Modern production facilities and welding processes, together with certified welders and experienced employees ensure consistent high quality.

We work together closely with the SKZ Würzburg and the SLV Mannheim.



## Use our manufacturing capacities for your products

### Plastics processing

On our blow molding machines with extrusion heads ranging from 5 to 180 liters, we manufacture a wide variety of containers up to more than 4,000 liters as well as complex technical components, including by coextrusion.

With more than 50 years of experience in blow molding technology, DEHOUST not only offers extensive expertise in the manufacturing of technical blow molding, but also a high level of development expertise for customer-specific components ranging from 5 to over 4,000 liters – even in small series.

Our own injection molding machines complete our range of services.

### Off-line fluorination

The properties of thermoplastic products can be improved by off-line fluorination: The permeation of non-polar media (e.g. heating oil) is significantly reduced and the material's wettability (printing) increases considerably.



Blow molding system



Off-line fluorination

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The country-specific approvals and installation regulations must be complied with.

