

E.SyTANK

DRINKING WATER STORAGE TANK





*E.SYBOX not supplied with E.SYTANK

TECHNICAL DATA

Operating range: maximum flow rate 120 l/min, head up to 65 metres
Pumped fluid: clean, free from solids or abrasive substances, not viscous, not aggressive, not crystallised and chemically neutral.

Maximum liquid temperature: 40°C

Maximum environment temperature: 50°C

Maximum capacity: 480 litres

Maximum system pressure (c/e.sybox): 8 bar

Supply pressure allowed at mains water inlet: max. 6 bar

Dimensions of mains water inlet pipe: ¾"

Dimensions of delivery pipe: 1"

Dimensions of overflow pipe connection: DN 50

Dimensions of front discharge (not drilled): DN40

Dimensions of discharge lower discharge (not drilled): DN20

APPLICATION / EXAMPLES OF INSTALLATION

E.SYTANK is a drinking water storage tank, designed with integration of the E.SYBOX booster pump system. Complete tank and pump system to boost mains water supply in domestic/ residential and light commercial applications.

E.SYTANK capabilities include:

- Catering for the water requirement, if the public distribution main is insufficient.
- Compliance with civil water regulations where pumping systems cannot draw directly from the distribution mains. Avoiding the reflux and possible contamination of water back into the distribution mains.
- Use as intermediate tanks in tall buildings dividing a pressure boosting system into several areas.

The E.SYTANK and E.SYBOX solution creates a complete pressure boosting system with high-efficiency, allowing:

- Notable reduction of required space
- Dimensions suitable for passing through cellar door ways
- Tank supplied complete with all the accessories for rapid installation
- Full integration and simple installation of E.SYBOX
- Recyclable Materials
- Tank suitable for potable water

CONSTRUCTION CHARACTERISTICS

E.SYTANK with a maximum capacity of 480 litres, suitable for use with drinking water.

Mains water in-let valve for filling from the water mains with integrated float and free discharge in compliance with UNI EN 1717. Overflow connection system type AG as per the same standard (UNI EN 1717 "Protection against pollution of potable water").

The tank is supplied complete with E.SYDOCK, a suction pipe with foot valve, and a delivery pipe.

The tank is suitable for fixed installation above ground and the four slots on the base allow easy fixing to the ground.

On the front wall there is the possibility of connecting a plug or a discharge pipe with a pipe that can be welded or glued on.

On the rear, at the bottom, there is access to a possible direct drain under the tank.

Both auxiliary discharge points can be drilled as required.

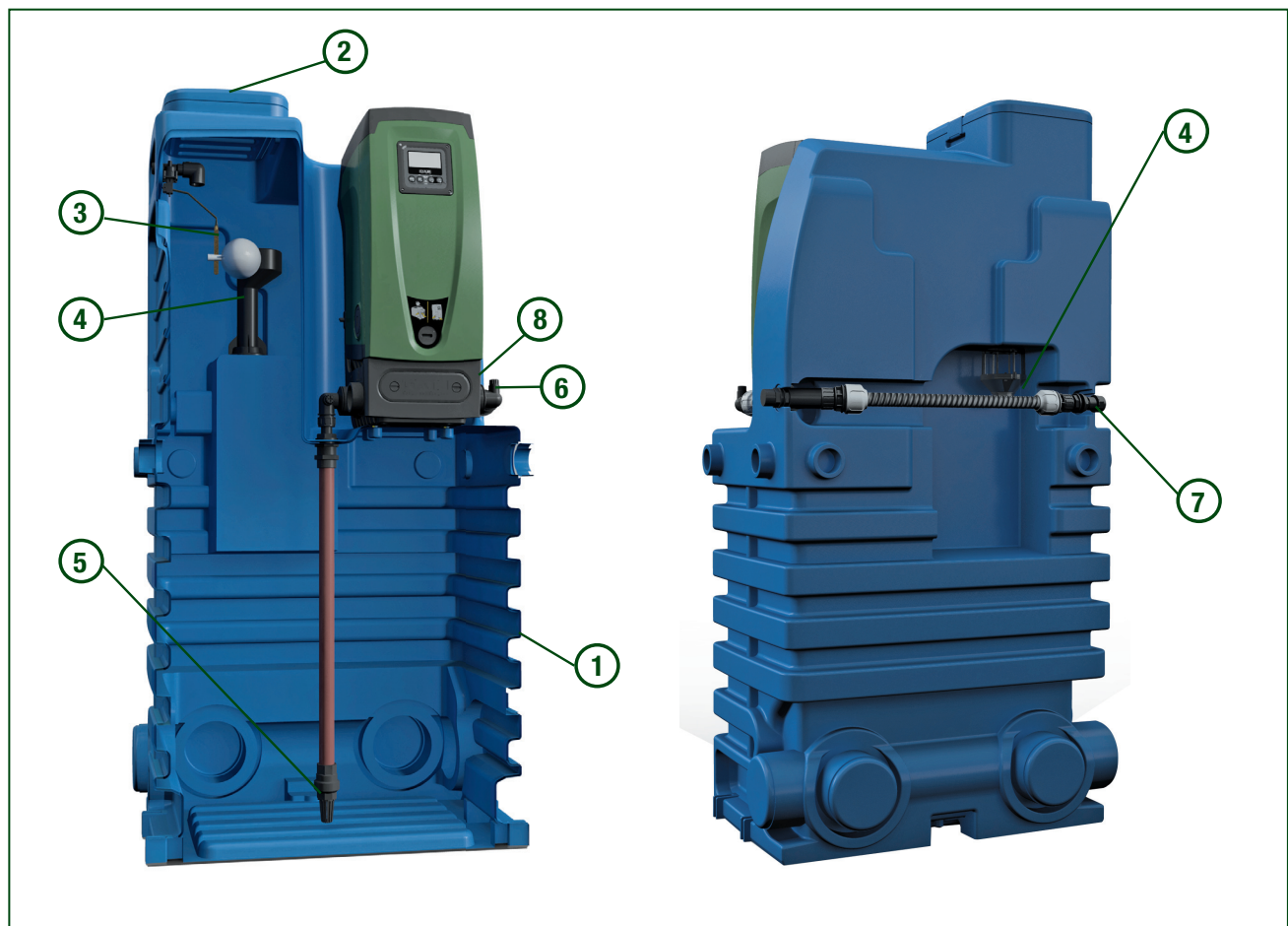
System maintenance is also simple thanks to the handy inspection lid. E.SYTANK has a modular design giving the possibility of installing additional tanks on three different sides (at the side and rear).

Nothing else is needed, E.SYTANK in combination E.SYBOX to guarantee the correct connection, installation and operation in residential and light commercial applications.


MATERIALS


N°	ITEMS	MATERIALS
1	480 LITRE TANK	LINEAR HIGH-DENSITY POLYETHYLENE. HDPE
2	INSPECTION COVER	LINEAR LOW-DENSITY POLYETHYLENE. LDPE
3	SERVO-CONTROLLED FLOAT VALVE	(NYLON) PA 66 GLASS FIBER REINFORCED, STAINLESS STEEL, EPDM, PPH, BRASS CW508L
4	OVERFLOW	PP POLYPROPYLENE 30% GLASS FIBER
5	SUCTION PIPE WITH FOOT VALVE	POLYPROPYLENE HOMOPOLYMER, POM
6	DELIVERY PIPE	POLYPROPYLENE HOMOPOLYMER
7	AUXILIARY DELIVERY PIPE*	POLYPROPYLENE HOMOPOLYMER
8	E.SYDOCK	NYLON 30% FV, PP 30% FV, NBR


*not supplied with E.SYTANK



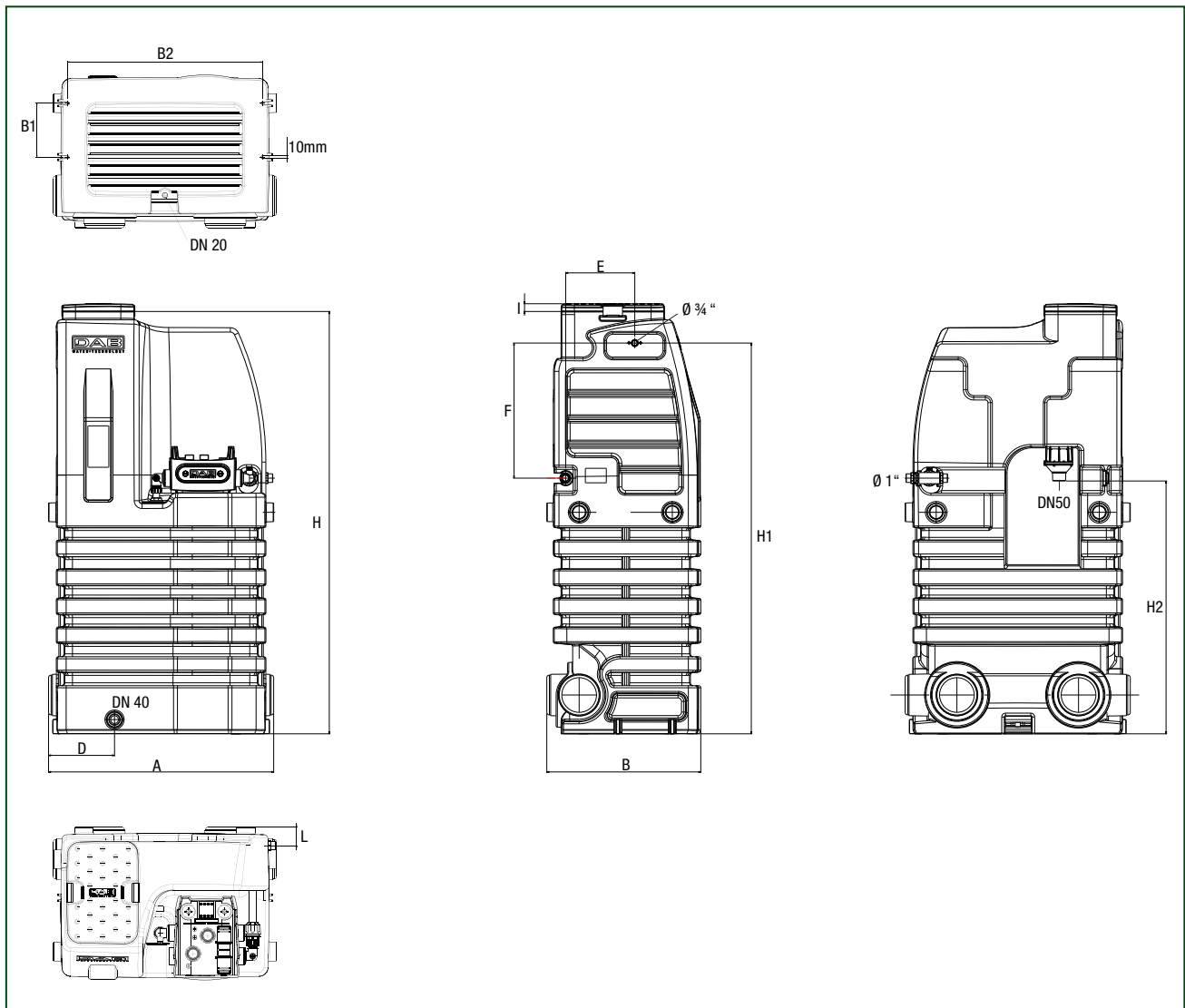
ACCESSORIES

E.SYTANK AUXILIARY CITERN	DESCRIPTION
	<p>The E.SYTANK AUXILIARY CITERN is supplied without any fittings or the E.SYDOCK. The tank has a modular design to couple easily with other E.SYTANK units, making the system expandable to the necessary capacity. It can be connected on three sides (at side and rear) using the E.SYTANK TANK COUPLING KIT.</p>

E.SYTANK COUPLING KIT	DESCRIPTION
	<p>The E.SYTANK COUPLING KIT is composed of a PVC sleeve with gasket (D.160 mm L=150), two PVC aligning pipes (D.50mm x L=60) and a connecting ring nut for a 2-pump option. It allows the connection of several E.SYTANK units or between E.SYTANK and E.SYTANK AUXILIARY CITERN.</p>

E.SYTANK OPTIONAL DELIVERY KIT	DESCRIPTION
	<p>Composed of a 1" PP pipe. It allows an auxiliary delivery for single tank systems or with the COUPLING KIT it allows several E.SYTANK and E.SYBOX systems to be linked together and to create pressure boosting units with several pumps and tanks.</p>

DIMENSIONS



A	B	B1	B2	D	E	F	H	H1	H2	I	L	WEIGHT (Kg)
870	595	210	758	255	267	522	1632	1510	977	30	72	40

CONFIGURATION EXAMPLES

INDEX	DESCRIPTION
A	E.SYBOX
B	E.SYTANK
C	E.SYTANK AUXILIARY CITERN
D	E.SYTANK COUPLING KIT
E	E.SYTANK OPTIONAL DELIVERY KIT

1. INSTALLATION OF 2 E.SYBOX + 2 E.SYTANK



$2x A + 2x B + 1x D + 1x E^*$

*FOR CONFIGURATION 1 REQUIRED ITEMS ARE : 2 E.SYBOX + 2 E.SYTANK + 1 E.SYTANK COUPLING KIT + 1 E.SYTANK OPTIONAL DELIVERY KIT

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2.E.SYTANK EXPANSION WITH AUXILIARY TANK



1xA + 1xB + 1xC + 1xD*

*FOR CONFIGURATION 2 REQUIRED ITEMS ARE: 1 E.SYBOX + 1 E.SYTANK + 1 E.SYTANK AUXILIARY CITERN + 1 E.SYTANK TANK COUPLING KIT

3.E.SYTANK INSTALLATION WITH DELIVERY OUTLET ON THE LEFT



1xA + 1xB + 1xE*

*FOR CONFIGURATION 3 REQUIRED ITEMS ARE : 1 E.SYBOX + 1 E.SYTANK + 1 X E.SYTANK OPTIONAL DELIVERY KIT

Consolidated Pumps Ltd



FLOW:

1 m³/h = 0.278 l/s

1 l/s = 3.6 m³/h

1 m³/h = 16.667 l/min

1 l/min = 0.06 m³/h

1 m³/h = 3.67 UK gal/min

1 UK gal/min = 0.273 m³/h

1 m³/h = 4.403 US gal/min

1 US gal/min = 0.227 m³/h

1 ft³/s = 102 m³/h

PRESSURE:

1 bar = 10.20 mH₂O

1 mH₂O = 0.098 bar

1 bar = 33.50 ft H₂O

1 ft H₂O = 0.0299 bar

1 bar = 14.5 p.s.i

1 p.s.i = 0.06895 bar

1 bar = 10⁵ Pa

1 Pa = 10⁻⁵ bar

1 bar = 10⁵ N/m²

Est. 1972

Thank you for your
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