Overview VETUS fresh water systems

Rigid tanks see page 139

Flexible tanks see page 141

Water heater/calorifiers see page 142

Pressurized water systems see page 144

Pressurized water system pumps see page 145

Accumulator tank

see page 145

Accessories see page 146

Accessories for hot water systems see page 148

WHY VETUS FRESH WATER SYSTEMS?

Clean fresh water is life's number one necessity. Therefore you should always have the best quality of water on board.
The quality of the components selected for the on-board fresh water system, will determine how long the stored water remains safe and potable. VETUS uses sophisticated materials to make sure the drinking water stays fresh longer.

Why you should choose a VETUS fresh water system

- Our water tanks are made of synthetic material, perfect for drinking water
- Our tanks can be cleaned easily because of the large inspection covers
- We offer complete water pressure systems with integral pump and water pressure control
- Our electrical components are available for 12 and 24 Volt systems
- Our systems are quick and easy to install
- Our tanks are available in a range of capacities
- Our tanks avoid all of the corrosion problems associated with metal tanks

VETUS offers the following products for a good working fresh water system

Rigid tanks

High-grade synthetic tanks, especially designed for use with drinking water. Available in different shapes, sizes and capacities.

Ready-to-go tanks

These tanks are equipped as standard with an electric water pump, tank gauge sender, inspection lid and all connections required for the filler, suction and breather hoses.

Flexible water tanks

These tanks are made of durable material and can be easily installed and positioned in places which are normally difficult to reach. Ideal when space is a problem.

Calorifiers

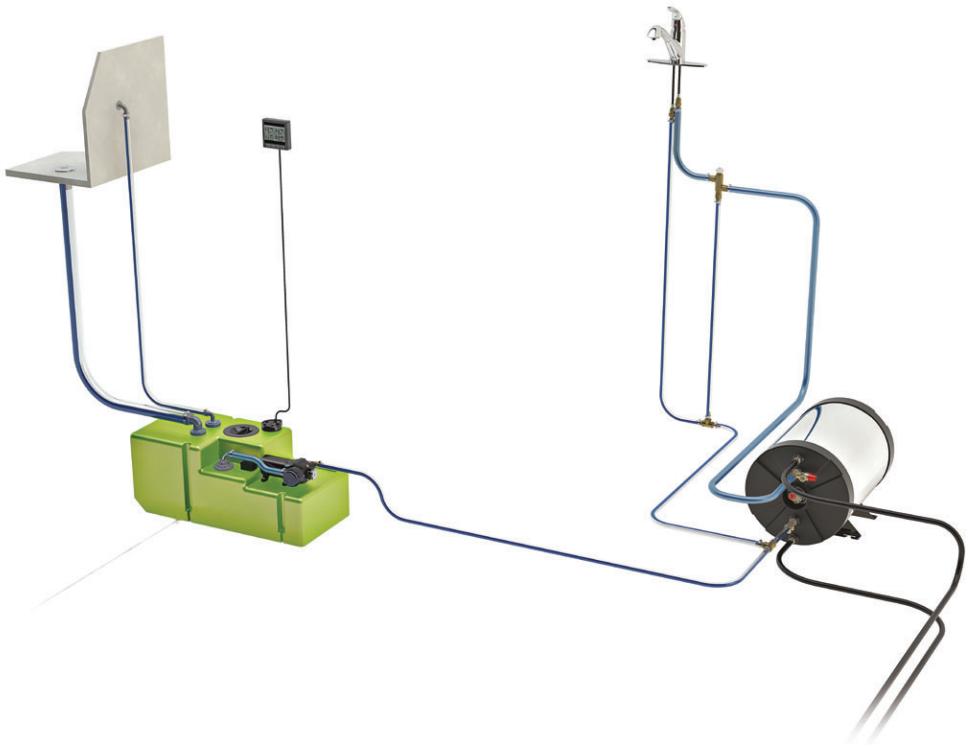
To create hot water when the engine is running. Fresh water will heat up 5-7 times faster than with conventional designs.

Pressurised water systems

Provides a constant water flow in the vessels fresh water circuit.

Accessories

Hoses, connection kits, level sensors and tank gauges to complete the system.



RIGID TANKS FOR DRINKING WATER

Basic tank type ATANK

Multi-purpose tank ideal for waste water, drinking water and diesel

ATANK

These tanks are made of thick walled high-grade polyethylene which is both rust free and less prone to condensation compared to metal tanks. Due to the seamless construction of the tanks, leakage is impossible. Fittings can be installed wherever you choose and can be ordered separately.

Tanks are supplied with diesel, fresh water and waste water labels.

For more information, specifications and dimensions see page 129.

Basic tank type WTANKC

With easy screw down inspection lid

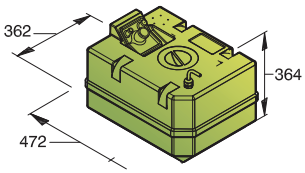
This type is made of high grade synthetic like all other VETUS rigid drinking water tanks and is supplied with all required connections which saves considerable installation time. A centre point for a SAE flange gauge sender is incorporated in the moulding together with 5 blind bolt holes.

Specifications
- Tank capacities of 40, 60 and 80 litres
- Hose connectors for filling line Ø 38 mm and breather line Ø 16 mm
- Rotating hose connector Ø 13 mm with pick-up pipe for water suction
- Supplied with installed screw down inspection lid

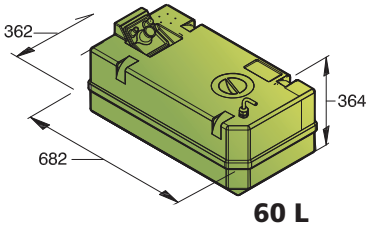
Note
The gauge sender should be ordered separately and the appropriate hole cut in the tank.

WTANKC

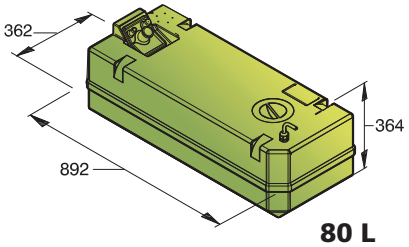
Dimensions: plus or minus 2%
Height dimension includes connectors



40 L



60 L



80 L

Type	Tank capacity	Ø Filler connection	Ø Breather connection	Ø Outlet connection
WTANK40C	40	38	16	13
WTANK60C	60	38	16	13
WTANK80C	80	38	16	13

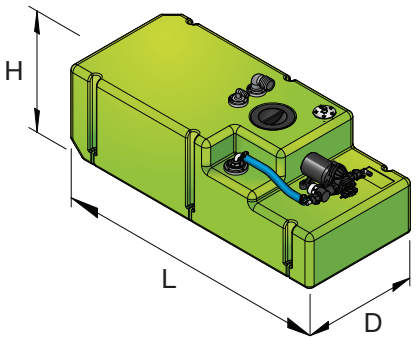
RIGID TANKS FOR DRINKING WATER

Drinking water system type DWSC

Comfort 'ready to go' system

This high grade synthetic tank for drinking water is supplied with an electric pump which automatically switches on when the pressure in the system drops (for example when a tap is opened).

Specifications
- Tank capacity of 42, 61, 88 and 120 litres
- Pump motor is available for 12 or 24 Volt
- Output 13,2 ltr/min at zero head
- Connections for filling line Ø 38 mm, outlet line Ø 13 mm and ventilation line Ø 16 mm
- Also supplied with inspection cover, gauge sender, connectors and filter in suction line



Type	Tank capacity (litre)	Voltage	Ø Filler connection	Ø Breather connection	Ø Outlet connection	Pump capacity (l/min)	Pump pressure (Bar)	L Length (mm)	D Depth (mm)	H Height (mm)
DWSC04212	42	12	38	16	13	13,2	3,1	610	350	400
DWSC04224	42	24	38	16	13	13,2	3,1	610	350	400
DWSC06112	61	12	38	16	13	13,2	3,1	780	350	400
DWSC06124	61	24	38	16	13	13,2	3,1	780	350	400
DWSC08812	88	12	38	16	13	13,2	3,1	930	400	400
DWSC08824	88	24	38	16	13	13,2	3,1	930	400	400
DWSC12012	120	12	38	16	13	13,2	3,1	1050	450	400
DWSC12024	120	24	38	16	13	13,2	3,1	1050	450	400

APT100 - One tank for all purposes

Fresh water, waste water or diesel: this tank can handle it

A new series of all-purpose tanks is introduced by VETUS: meet the APT100. Made from high-grade polyethylene, this large capacity tank handles almost any liquid you would like to store on your boat. It features an inspection lid and is ready for the appropriate ILT connection kit. On the bottom is a 38 mm connection that can be drilled out for interconnection purpose or draining. The robust appearance and the all-new design make this the tank to have.

Due to the large inspection hole (140 mm) the tank meets ISO 21487 when it comes to fuel directives. Depending on the purpose you have for this tank, an appropriate connection set is available from VETUS. The tank is easy to install and has enough capacity for longer boat trips.

Specifications
- All-purpose 100 litre tank, suitable for fresh water, waste water or diesel
- Made from high-grade polyethylene
- Large inspection port to meet ISO21487 requirements
- 38 mm connection (to drill open) for interconnection purpose or draining
- ILT-concept ready

Typ	Tank capacity (ltr)	Dimensions (mm)	Wall thickness (mm)	Ø Bottom connection (mm)
APT100	100	1010 x 390 x 315	8	38

FLEXIBLE TANKS FOR DRINKING WATER

Type TANKW

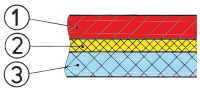
Easy installation

These tanks can be installed easily and quickly; they assume the shape of the space in which they are placed. Often they can be used in awkward spaces or difficult to reach locations. All fittings are supplied as standard and fitting the outlet nipple and connecting the inlet and outlet hoses are the only things that need to be done.

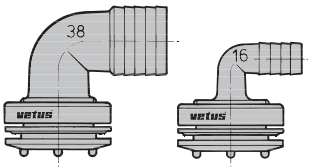
Standard supplied with
1 Angled connector for filling pipe Ø 38 mm (is fitted to the top of the tank)
1 Angled connector for the pump hose Ø 16 mm (loose)

Additional nipples can be supplied as an option.

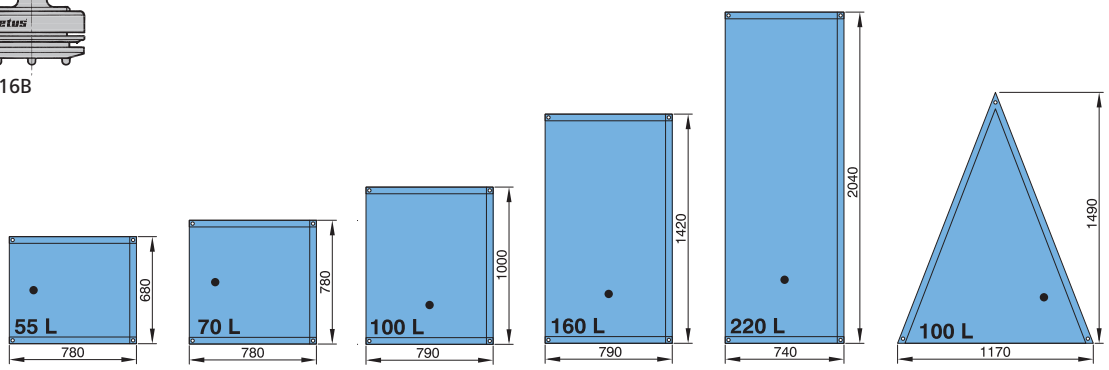
The VETUS flexible water tanks consists of three layers
1. A wear resistant layer
2. A reinforcement layer
3. A layer suitable for contact with drinking water

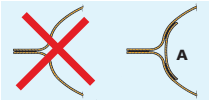


Type	Capacity (appr.) (litre)	Dimensions (appr.) mm	Height filled (appr.) mm
TANKW55	55	680 x 780	250
TANKW70	70	780 x 780	270
TANKW100	100	790 x 1000	270
TANKW160	160	790 x 1420	270
TANKW220	220	740 x 2040	270
TANKW1003	100 (Δ)	1170 x 1490	240



FT38B FT16B

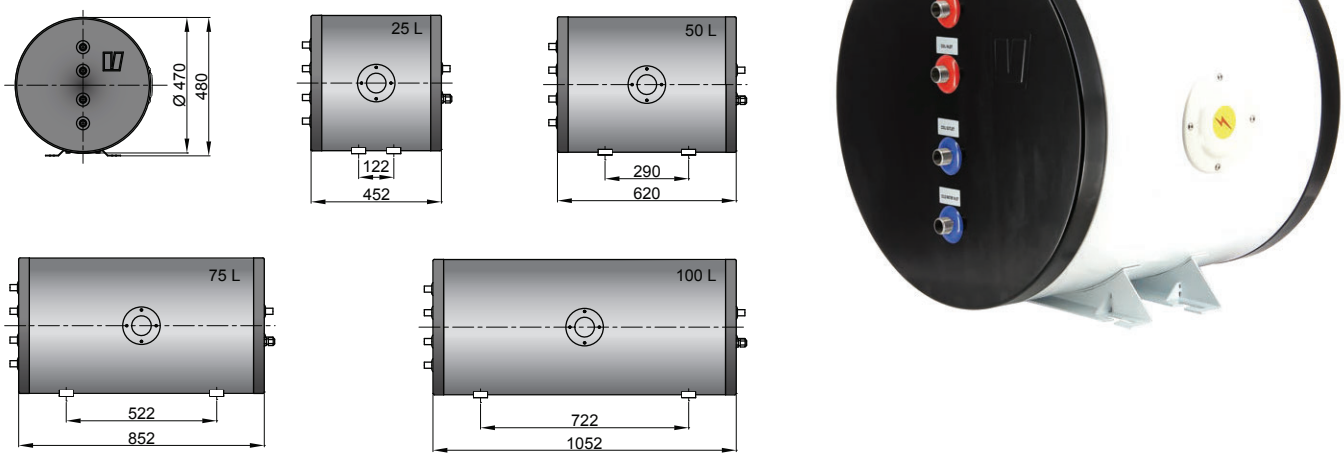




We not only weld the seams, but in addition we also weld an extra strip (see drawing A). This makes the VETUS flexible tank resistant against much higher pressures, especially if the contents are moving when the boat is rolling or pitching.

Improved standard twin coil calorifiers type WHT

This twin coiled calorifier range will double your comfort on board when it comes to hot water. One heating coil can be connected to the engine cooling circuit to make use of surplus engine heat. The other coil can be connected to an on board heating system. All calorifiers are supplied with; a 1500 Watt electric heating element, all hose connectors and a 6 bar pressure relief valve.



Contents of fresh water: 25 L.
Contents of coolant: 0.5 L.
WHT025

Contents of fresh water: 50 L.
Contents of coolant: 0.5 L.
WHT050

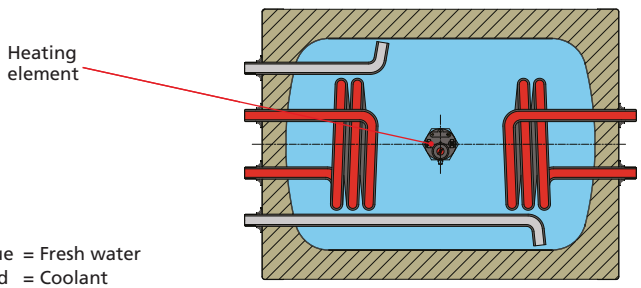
Contents of fresh water: 75 L.
Contents of coolant: 0.5 L.
WHT075

Contents of fresh water: 100 L.
Contents of coolant: 0.5 L.
WHT100

Specifications WHT

Construction	
Tank	Duplex stainless steel
Insulation	Polyurethane foam, 50 mm thickness, supplied with white coated steel outer jacket

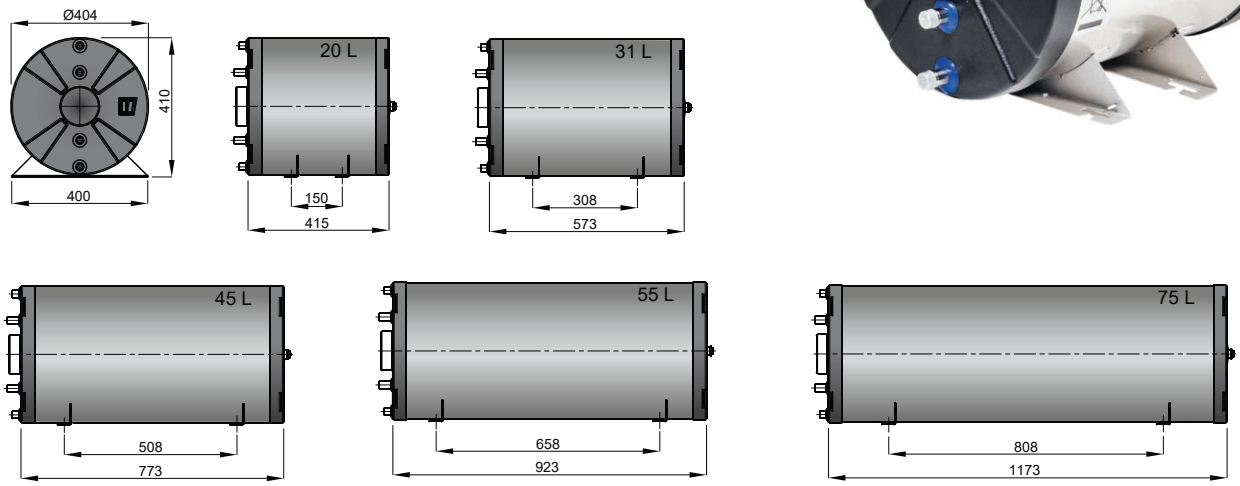
Connections	
Engine coolant	G ½
On-board heating system	G ½
Fresh water	G ½
Heating element	G 1¼, 1500 Watt, 230 V
Pressure relief valve setting	6 bar (87 lbs / sq.inch)



Blue = Fresh water
Red = Coolant

Premium double wall calorifiers type WHD

Whilst conventional calorifiers use a spiral tube to heat the water, these calorifiers use a very efficient double wall principle. Thanks to this double wall principle, the VETUS double wall calorifiers have a heating surface, which is much greater than that of a conventional heating spiral tube. This means that the double walled calorifiers will heat the water significant faster than conventional calorifiers. All calorifiers are supplied with; a 1500 Watt electric heating element, all hose connectors and a 6 bar pressure relief valve.



Contents of fresh water: 20 L.
Contents of coolant: 2 L.
WHD020

Contents of fresh water: 31 L.
Contents of coolant: 3 L.
WHD031

Contents of fresh water: 45 L.
Contents of coolant: 5 L.
WHD045

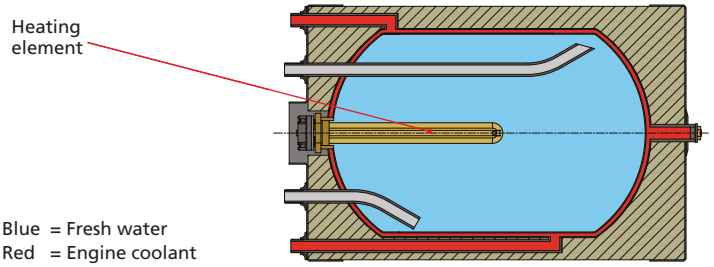
Contents of fresh water: 55 L.
Contents of coolant: 7 L.
WHD055

Contents of fresh water: 75 L.
Contents of coolant: 9 L.
WHD075

Specifications WHD

Construction	
Inner + outer tank	Stainless steel, AISI 316L
Insulation	Polyurethane foam, 35 mm thickness, supplied with high gloss finished stainless steel outer jacket

Connections	
Engine coolant	G ½
Fresh water	G ½
Heating element	G 1¼, 1500 Watt, 230 V
Pressure relief valve setting	6 bar (87 lbs / sq.inch)



Blue = Fresh water
Red = Engine coolant

PRESSURIZED WATER SYSTEMS

Pressurized water system type HF

Ensuring constant water flow

This VETUS pressurized water system provides a constant flow in the vessels fresh water circuit. It is comparable with a piped water system at home. The pressurized tank with a rubber diaphragm inside, prevents the pump motor being started each time a supply of water is required. The diaphragm is suitable for drinking water and can be replaced. This system ensures a constant water flow, saving of energy and minimum noise.

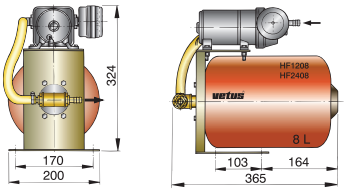
Supplied with
- Self-priming pump
- Inlet water strainer
- Pressure switch
- Mounting bracket

HF

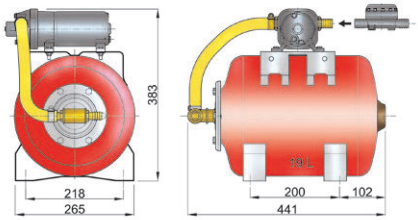
Extremely low noise level

Water system	Type HF1208 - HF2408	Type HF1219 - HF2419
Contents of pressure tank	8 litres	19 litres
Available in	12 Volt (3.9 A) 24 Volt (2,0 A)	12 Volt (6 A) 24 Volt (2,5 A)
Connection for hose	Ø 13 mm	Ø 19 mm
Weight	6,2 kg	7,5 kg
Capacity	12,5 l/min.	17 l/min.
Max. pressure	2,5 bar (35 psi)	2,8 bar (39 psi)
Max. suction height	3 m	3 m

Type 8



Type 19



Pressurized water system type HYDRF

With adjustable pressure switch

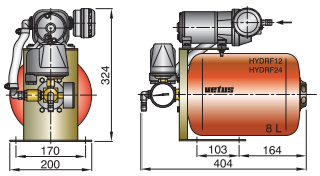
Type HYDRF works the same as the basic pressurized water system type HF, but has an adjustable pressure switch, a manometer (pressure gauge) and an additional non-return valve. Both VETUS pressurized water systems meet the EMC requirements. For more information about this pressurized water system, see type HF.

HYDRF

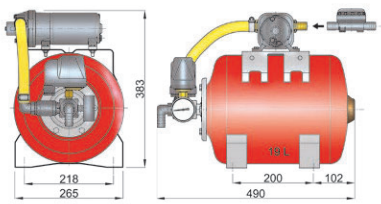
Water system	Type HYDRF12 - 24	Type HYDRF1219 - 2419
Contents of pressure tank	8 litres	19 litres
Available in	12 Volt (3.9 A) 24 Volt (2,0 A)	12 Volt (6 A) 24 Volt (2,5 A)
Connection for hose	Ø 13 mm	Ø 19 mm
Weight	8,2 kg	9,5 kg
Capacity	12,5 l/min.	17 l/min.
Max. pressure	2,5 bar (35 psi)	2,8 bar (39 psi)
Max. suction height	3 m	3 m

Extremely low noise level

Type 8



Type 19



PRESSURIZED WATER SYSTEMS

Pressurized water system pumps type WP

Silent running and smooth operation

These pumps are designed for pressurized water systems, washing, liquid transfer etc. Type WP is noiseless, low in energy consumption and can run dry without damage. It is well equipped with a thermal overload protection, built-in check valve and is auto demand with built-in pressure switch. This pump is supplied with 2 straight and 2 angled 13 mm hose connections, and inlet filter.

For voltage, flow, pressure, current and dimensions see table below.

WP..08

WP..13

WP..20

Type	Volt (V)	Flow (lpm)	Pressure (bar)	Max Current (A)	L x W x H (mm)
WP1208	12	7.6	2.1	5	212 x 130 x 123
WP2408	24	7.6	2.1	3	212 x 130 x 123
WP1213	12	13.2	3.1	7	212 x 130 x 123
WP2413	24	13.2	3.1	4	212 x 130 x 123
WP1220	12	20	4.2	17	229 x 147 x 132
WP2420	24	20	4.2	10	229 x 147 x 132

Accumulator tank type EXPAT075

Steady water pressure in the system

Made from high grade polyamide, this compact small capacity accumulator with rubber membrane provides a constant flow in the vessels water circuit. The pressure in the accumulator prevents the water pump motor being started each time a supply of water is required and the butyl rubber membrane is suitable for drinking water. Connecting is easy as there is no preferred IN or OUT connection on this accumulator.

The EXPAT075 ensures a constant water flow, saves energy and minimizes noise. The accumulator is set to a pre-charge pressure of 0,7 bar, but can be adjusted to optimal settings for your fresh water system (to a maximum of 8,5 bar). Overall dimensions are 223 mm x 194 mm x 114 mm and the accumulator is supplied with two angled and two straight 13 mm hose pillars.

Specifications
- Smooths water flow
- Extends the lifespan of your fresh water pump
- Tank is suitable for confined spaces
- Dampens pulsation in the system
- Volume: 0,75 litre
- Temperature range: 0 to 50 degrees Celcius
- Connections: ½" NPT Male
- Hose pillars: ½" NPT - ½" (13 mm) hose
- Weight: 0,36 kg

EXPAT075

Typ	Capacity (l)	Max. pressure (bar)	Connections	Dimensions l x b x h (mm)
EXPAT075	0,75	8,5	13 mm hose	223 x 194 x 114

ACCESSORIES

Hose type DWHOSEB

Temperature proof between -5 and + 65°C

This hose is made of transparent PVC with spiral inlay and is suitable for transportation of drinking water on board, both suction and pressure.

For a complete overview, specifications and dimensions of hoses see page 404.

DWHOSEB

Hose type HWHOSE

Ideal for use with calorifier and hot water systems

Type HWHOSE is made of EPDM rubber with an inlay of woven synthetic fabric. This hose is suitable for drinking water and is temperature resistant between -30 and + 160°C.

For a complete overview, specifications and dimensions of hoses see page 404.

HWHOSE

Inspection lid type WTK02

For (waste) water tanks only!

Specifications
- Overall diameter Ø 156 mm
- Cut out diameter Ø 115 mm
- Not suitable for fuel tanks
- Ideal for metal tanks

Type	Description
WTK02	Inspection lid only, for rigid drinking water tanks

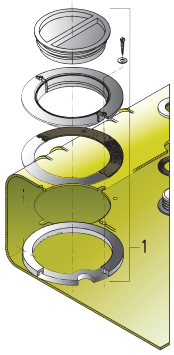
WTK02

Inspection lid kit type WTIKIT

Complete with gasket, counter flange and fastenings

Specifications
- Overall diameter Ø 156 mm
- Cut out diameter Ø 115 mm
- Not suitable for fuel tanks

Type	Description
WTIKIT	Inspection lid for rigid drinking water tanks



WTIKIT

Ultrasonic level sensor type SENSORA

Easy measurement

This VETUS ultrasonic level sensor is contactless and will easily measure the fluid level in the tank.

For more information and available level sensors see page 109.

Type	Description
SENSORA	Ultrasonic level sensor

SENSORA

ACCESSORIES

Installation kit type WTKIT

With inspection lid and angled connectors

The installation kit consists of
1. 1 Inspection lid (WTIKIT)
2. 1 Right angle connector (RT38B) for filling hose Ø 38 mm
3. 1 Right angle connector (RT16B) for water pump Ø 16 mm
4. 1 Right angle connector (RT16B) for ventilation Ø 16 mm
5. 2 Mounting straps
6. T-piece for interconnecting 2 tanks Ø 16 mm

Type	Description
WTKIT	Installation kit for drinking water tanks

WTKIT

Universal inspection port for tanks type ILT120

Innovative inspection port with robust design

The VETUS ILT is an innovative inspection port which facilitates easy opening, inspecting and cleaning the tank, even after being closed for a long time.
The inspection port has a counter flange and a rubber seal which are inserted into a Ø 159 mm hole in the tank. All that needs to be done is tighten the 4 supplied bolts which compresses the rubber seal to ensure perfect sealing.

The "clamp and seal" design simplifies installation, making the drilling of a Ø 159 mm hole the hardest part in the installation!
The black blind plate can be replaced by various connection kits.

ILT120

Fresh water connection kit type ILTCOND

Keeping fresh water fresh and preventing marine growth can be tricky, but a large opening will help to do the job! Periodic cleaning of all connections and of course the tank itself will be a much easier job if it can be done in a fraction of the time!
For drinking water tanks in all varieties the VETUS ILT freshwater disc is all you need!

The connections that come with this set are
- Ø 38 mm fresh water fill connection
- Ø 13 mm fresh water suction connection
- Ventilation connection Ø 16
- 5 hole SAE flange tank level sensor connection

ILTCOND

Type	Description	Diameter (mm)	Diameter hole (mm)
ILT120	Inspection port with counter flange	120	159
VSAW159	Ø 159 mm hole saw for plastic, G.R.P. or metal tanks		159
ILTCOND	Fresh water connection kit		

ACCESSORIES

Suction pipe type WTS44513B

Fitted to the top of fixed tanks

This suction pipe can be fitted to the top of most of the fixed tanks with a maximum depth of 410 mm and is suitable for Ø 13 mm drinking water systems.

Type	Description
WTS44513B	Suction pipe for drinking water tanks

WTS44513B

ACCESSORIES FOR HOT WATER SYSTEMS

Heating element type WHEL

Adjustable thermostat (40 - 80°C.). Male thread size, ISO 228/1 G1¼.
Screw-in length of element is 300 mm.

Electric heating elements
- 500 Watt, 230 Volt
- 1000 Watt, 120 Volt
- 1000 Watt, 230 Volt
- 1500 Watt, 230 Volt

VETUS heating elements type WHEL meet the low voltage requirements.

Type	Volt (V)	Watt
WHEL22500	230	500
WHEL220	230	1000
WHEL110	120	1000
WHEL1500	230	1500

WHEL

Thermostatic mixer for calorifiers

Calorifiers which are heated by the engine coolant, can deliver their fresh water contents at temperatures of more than 90°C. There is always a risk that these high temperatures could cause scalding when washing or showering. Using a mixer tap can take too long to a find a suitable temperature, with high water usage as a consequence.

By fitting a thermostatic mixer, the risk of scalding is eliminated and a safe and comfortable temperature for each requirement is easily selected. So, no more hot water wastage, a constant safe temperature at the tap and energy saving.

The thermostatic mixer is provided with G½ thread. The temperature is infinitely adjustable between 30° and 70°C.

Type	Description
WHMIXER	Thermostatic mixer for calorifiers

WHMIXER