



ULTRA-PRO

expansion vessel for potable water, pumps and booster sets
capacity: from 24 - 3000 litres

Advantages

ULTRA-PRO pressure tanks are the best choice for irrigation pumps, centrifugal pumps, submersible pumps and for booster sets. The capacity of a bladder tank is larger than the capacity of common storage tanks: the same performance can be obtained with a smaller volume, allowing minimum pump starts therefore saving energy.

The range of different sizes, availability of vertical and horizontal models, together the choice between galvanised or stainless steel flanges ensure that the ULTRA-PRO pressure tanks meet the requirements of the end user. Pressure tanks from Zilmex undergo 100% factory testing procedures and are certified according to PED 97/23/EC.

The bladder, which is suitable for alimentary purposes, is fixed at both ends avoiding any possible contact against the inner tank surface.

ULTRA-PRO pressure tanks offer unlimited service as the bladder is easily replaceable.

Technical features

MIG welded carbon steel body without internal rough spots or sharp edges. Replaceable bladder suitable for use with potable water. Painted externally with long lasting epoxy powder. Mild steel or stainless steel flanges for use with aggressive water.

Working

When the pump starts, water enters the membrane tank as system pressure passes the pressure precharge using the whole capacity of the tank. Only usable water is stored. When the pressure in the chamber reaches the maximum system pressure, the pump stops working. The tank is filled to its maximum capacity. When water will be needed again, pressure in the airside will push water into the system. Since Zilmex ULTRA-PRO tank does not water log and delivers all possible water, minimum pump starts are assured with saving on energy consumption and increasing the pump life

Certification



Technical and dimensional data

Vertical vessels								
Model	Code	Capacity (Ltr)	Ø Diameter	Height	E	Maximum Pressure	Precharge	Connection
ULTRA PRO 24 V (SPH)	1100002452	24	362 mm	355 mm	-	8 BAR	1.5 BAR	1" G
ULTRA PRO 24 V	1100002418	24	270 mm	485 mm	-	10 BAR	1.5 BAR	1" G
ULTRA PRO 50 V	1100005006	50	380 mm	770 mm	180 mm	10 BAR	1.5 BAR	1" G
ULTRA PRO 60 V	1100006006	60	380 mm	860 mm	170 mm	10 BAR	1.5 BAR	1" G
ULTRA PRO 80 V	1100008006	80	450 mm	830 mm	153 mm	10 BAR	1.5 BAR	1" G
ULTRA PRO 100 V	1100010006	100	450 mm	910 mm	153 mm	10 BAR	1.5 BAR	1" G
ULTRA PRO 100 V (SPECIAL)	1100010020	100	450 mm	910 mm	153 mm	10 BAR	1.5 BAR	1" G
ULTRA PRO 200 V	1100020006	200	550 mm	1235 mm	210 mm	10 BAR	1.5 BAR	1 1/2" G
ULTRA PRO 300 V	1100030006	300	630 mm	1365 mm	188 mm	10 BAR	1.5 BAR	1 1/2" G
ULTRA PRO 500 V	1100050006	500	750 mm	1560 mm	188 mm	10 BAR	1.5 BAR	1 1/2" G
ULTRA PRO 750 V	1100075051	750	750 mm	2075 mm	150 mm	8 BAR	1.5 BAR	1 1/2" G
ULTRA PRO 750 V	1100075057	750	750 mm	2075 mm	150 mm	10 BAR	2 BAR	1 1/2" G
ULTRA PRO 1000 V	1100100052	1000	850 mm	2100 mm	120 mm	6 BAR	1.5 BAR	1 1/2" G
ULTRA PRO 1000 V	1100100056	1000	850 mm	2100 mm	120 mm	8 BAR	2 BAR	1 1/2" G

Horizontal vessels								
Model	Code	Capacity (Ltr)	Ø Diameter	Height	L	Maximum Pressure	Precharge	Connection
ULTRA PRO 24 H	1100002406	24	270 mm	290 mm	485 mm	10 bar	1.5 bar	1" G
ULTRA PRO 50 H	1100005007	50	380 mm	410 mm	560 mm	10 bar	1.5 bar	1" G
ULTRA PRO 60 H	1100006007	60	380 mm	410 mm	640 mm	10 bar	1.5 bar	1" G
ULTRA PRO 80 H	1100008007	80	450 mm	480 mm	640 mm	10 bar	1.5 bar	1" G
ULTRA PRO 100 H	1100010007	100	450 mm	480 mm	730 mm	10 bar	1.5 bar	1" G
ULTRA PRO 200 H	1100020007	200	550 mm	580 mm	985 mm	10 bar	1.5 bar	1 1/2" G
ULTRA PRO 300 H	1100030007	300	630 mm	660 mm	1140 mm	10 bar	1.5 bar	1 1/2" G

Material description

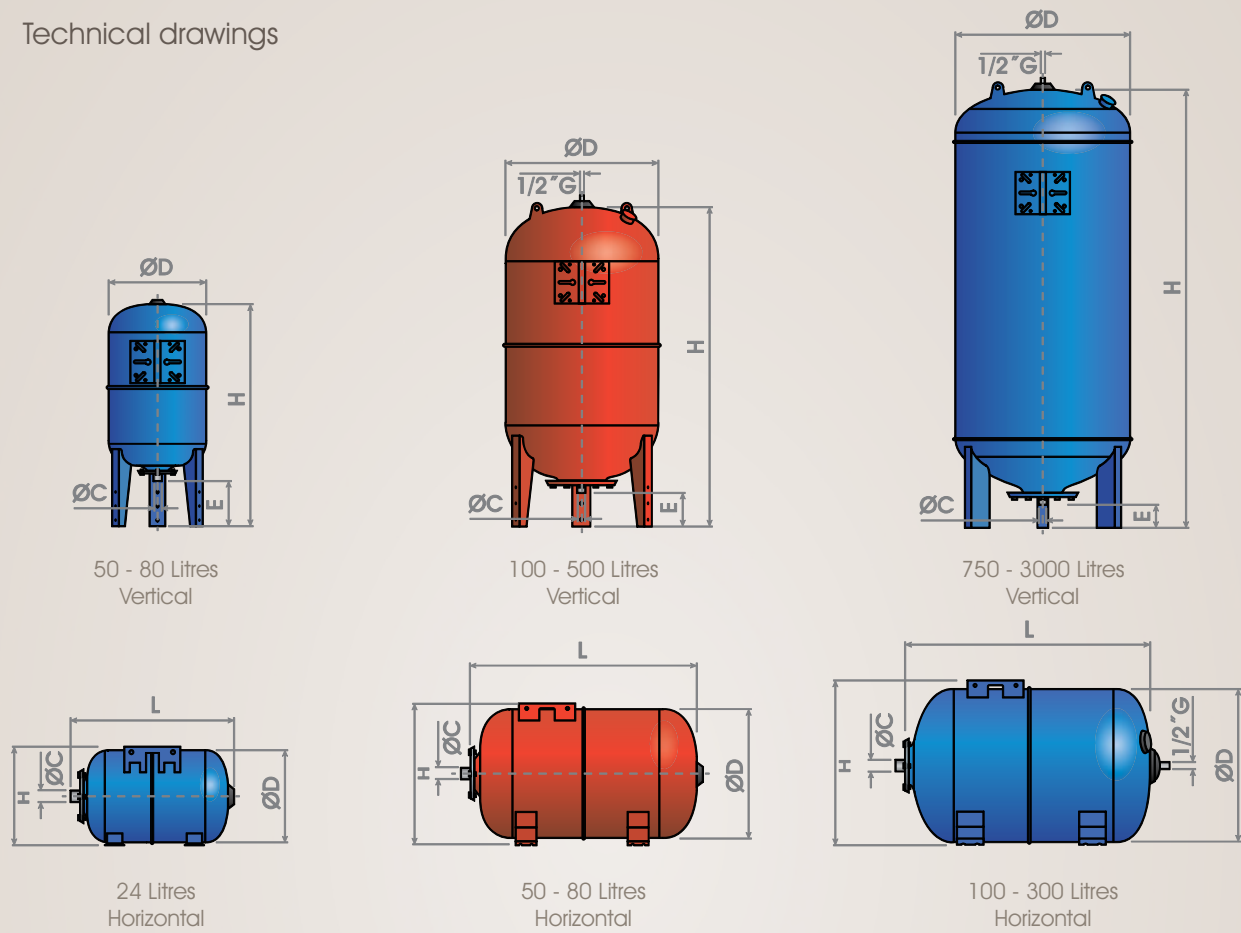
Description	Material
Shell	Carbon Steel
Membrane	Butyl*/EPDM*
Flange	Galvanised / Stainless Steel
Colour	Blue / Red

* Replaceable membrane for alimentary purposes

Operating conditions

Maximum working pressure	10 bar
Maximum pressure 750 litres CE	8 / 10 bar
Maximum pressure 1000 litres CE	6 / 8 bar
Maximum operating temperature	70°C
Factory precharge	1.5 - 2 bar

Technical drawings



Zilmert is an international manufacturer of high quality expansion tanks, with a large number of production sites, branches and distributors in Europe and throughout the world.

As a leader in the thermo-hydraulic market our objectives are constant research for new products and innovative solutions, always keeping quality as our characteristic element.

ULTRA-PRO 16 bar

Technical and dimensional data

Vertical vessels							
Model	Code	Capacity (Ltr)	Ø Diameter	Height	Maximum Pressure	Precharge	Connection
ULTRA PRO 24 V	11000024B4	24	270 mm	485 mm	16 bar	2 bar	1" G
ULTRA PRO 100 V	1100010055	100	450 mm	910 mm	16 bar	2 bar	1" G
ULTRA PRO 200 V	1100020052	200	550 mm	1235 mm	16 bar	2 bar	1 1/2" G
ULTRA PRO 300 V	1100030048	300	630 mm	1365 mm	16 bar	2 bar	1 1/2" G
ULTRA PRO 500 V	1100050053	500	750 mm	1560 mm	16 bar	2 bar	1 1/2" G
ULTRA PRO 750 V	1100075060	750	750 mm	2075 mm	16 bar	2 bar	1 1/2" G
ULTRA PRO 100 V	1100100060	1000	850 mm	2100 mm	16 bar	2 bar	1 1/2" G

Material description

Description	Material
Shell	Carbon Steel
Membrane	Butyl*/EPDM*
Flange	Painted flange
Colour	Blue / Red

* Replaceable membrane for alimentary purposes

Operating conditions

Maximum working pressure	16 bar
Maximum operating temperature	70°C
Factory precharge	2 bar

Elastomers

Membrane	Use	Working temperature
Butyl	Potable and non potable water	-10°C - 70°C
EPDM	Potable and non potable water	-10°C - 70°C

Spare membranes

Model	Code	Capacity (Ltr)
260100020	Z1-260100020	24
1800002403	Z1-1800002403	19 - 24
260100021	Z1-260100021	50
260100001	Z1-260100001	60 - 80
260100002	Z1-260100002	100
260100013	Z1-260100013	100
260100003	Z1-260100003	200
260100004	Z1-260100004	300
260100005	Z1-260100005	500
260100006	Z1-260100006	750 - 1000