

ARD EXPANSION VESSELS



ISO
9001:2008
REGISTERED

cen
EN 13831

WRAS

CE
PED/97/23

about us



Established in 1970s as steel works manufacturing company at Istanbul by our founder Mr. Mehmet Yagci. At the date our company was the first stainless steel kitchenware manufacturer at Turkey. With growing sales activities during timeline company strongly had grown fastly and became leader manufacturer at 1980s at national market. By the first quarter of 1980s the second generation of family took responsibility of managing, started to export goods to international market. Especially european market and near region of Turkey were target supply areas for company. At early 2000s company started to manufacture vessels for export and import. Now, getting together long manufacturing experience, global thinking trend, quality development, price optimization for supply the best service to customers.

Third generation managers are looking forward to grow company and cede company future generations.

Employers and manager has open thinking and development mind to manufacture and sale higher quality goods. our teams' education and experience getting more by time. certified quality respects our works in objective way.

Our company vision is; well-educated, experienced, customer focused and serving best organization, casing that values, respecting customers and sector.

Our company mission is; with the casing our values and grow our company at all abilities. To become leader at sector and give better service to our customers. To give more sensitivity environment and safety.

Trading and manufacturing ethics is our main and indispensable value.

CERTIFICATIONS:

ISO 9001:2008; certificate for all departments and scopes of business.

CE, European Declaration of Conformity; our products available in 8, 10, 16 and 25 bar all respectively. According to **EN 13831** standarts.

Trade Mark Registration; our company trade marks are under security of national and international registration authorities.

WRAS; our products suitable for potable water installations.



EN 13831



PED/97/23

heatline



Technical Specifications

Production vessel volumes	2 - 5000 lt.
Max. working pressure	8 bar
Operating temperature	-10 / +100°C
Factory precharge (2-80 lt.)	2 bar
Factory precharge (100-5000lt)	3 bar
Raw material	High grade carbon steel
Membrane material (bladder)	EPDM/SBR/BUTYL
Coating (cover)	Electro-static powder coating
Types of vessels	Vertical, vertical with legs
Certifications	CE 97/23 PED directive, EN 13831
Area of use	Heating applications
Color	Red

Heatline are membrane expansion tanks for centralized closed circuits suited to absorb the increased water volume when the temperature in the heating system increases. It has an EPDM/SBR/BUTYL membrane and produced according to CE 97/23 PED directive and EN 13831 for centralized non potable water heating systems.

Product Code	Capacity (liters)	Max. Working Pressure (BAR)	Connection	Dimensions		Precharge Pressure (BAR)	Working Temperature °C	Membrane
				Ø mm	h mm			
ARD-HL-2V-8	2	8	¾" G	162	205	2	-10 / +100°C	EPDM/SBR
ARD-HL-5V-8	5	8	¾" G	162	310	2	-10 / +100°C	EPDM/SBR
ARD-HL-8V-8	8	8	¾" G	215	350	2	-10 / +100°C	EPDM/SBR
ARD-HL-12V-8	12	8	¾" G	215	400	2	-10 / +100°C	EPDM/SBR
ARD-HL-18V-8	18	8	1" G	250	400	2	-10 / +100°C	EPDM/SBR
ARD-HL-24V-8	24	8	1" G	250	430	2	-10 / +100°C	EPDM/SBR
ARD-HL-35V-8	35	8	1" G	370	400	2	-10 / +100°C	EPDM/SBR
ARD-HL-50V-8	50	8	1" G	370	695	2	-10 / +100°C	EPDM/SBR
ARD-HL-80V-8	80	8	1" G	450	800	2	-10 / +100°C	EPDM/SBR
ARD-HL-100V-8	100	8	1" G	450	900	3	-10 / +100°C	EPDM/SBR
ARD-HL-200V-8	200	8	1" G	600	1100	3	-10 / +100°C	EPDM/SBR
ARD-HL-300V-8	300	8	1¼" G	640	1200	3	-10 / +100°C	EPDM/SBR
ARD-HL-500V-8	500	8	1¼" G	750	1500	3	-10 / +100°C	EPDM/SBR
ARD-HL-750V-8	750	8	1¼" G	750	2000	3	-10 / +100°C	EPDM
ARD-HL-1000V-8	1000	8	2" G	800	2200	3	-10 / +100°C	EPDM
ARD-HL-2000V-8	2000	8	2" G	1100	2500	3	-10 / +100°C	EPDM
ARD-HL-3000V-8	3000	8	3" G	1200	2850	3	-10 / +100°C	BUTYL
ARD-HL-5000V-8	5000	8	3" G	1450	3750	3	-10 / +100°C	BUTYL





waterline - low pressure (8 bar)

Technical Specifications

Production vessel volumes	2 - 5000 lt.
Max. working pressure	8 bar
Operating temperature	-10 / +100°C
Factory precharge (2-80 lt.)	2 bar
Factory precharge (100-5000lt)	3 bar
Raw material	High grade carbon steel
Membrane material (bladder)	EPDM/BUTYL
Coating (cover)	Electro-static powder coating
Types of vessels	Vertical, vertical with legs and horizontal
Certifications	CE 97/23 PED directive, WRAS, EN 13831
Area of use	Portable water applications
Color	Blue / Red

Waterline pressure vessels with replaceable membrane. This line is ideal for every modern installation and can be applied to any type of pump. A compressor is not necessary since an air cushion, separated from the water by the EPDM membrane, maintains a constant pressure in the tank. These tanks can also be provided with stainless steel flanges. Available capacities are from 2 to 5000 liters. They can be certified by the PED/97/23/CE, WRAS and EN 13831.

VERTICAL VESSELS

Product Code	Capacity (liters)	Max. Working Pressure (BAR)	Connection	Dimensions		Precharge Pressure (BAR)	Working Temperature °C	Membrane	Type
				Ø mm	h mm				
ARD-WL-2V-8	2	8	¾" G	162	205	2	-10 / +100°C	EPDM	Without legs
ARD-WL-5V-8	5	8	¾" G	162	310	2	-10 / +100°C	EPDM	Without legs
ARD-WL-8V-8	8	8	¾" G	215	350	2	-10 / +100°C	EPDM	Without legs
ARD-WL-12V-8	12	8	¾" G	215	400	2	-10 / +100°C	EPDM	Without legs
ARD-WL-18V-8	18	8	1" G	250	400	2	-10 / +100°C	EPDM	Without legs
ARD-WL-24V-8	24	8	1" G	250	430	2	-10 / +100°C	EPDM	Without legs
ARD-WL-24S-8	24	8	1" G	350	325	2	-10 / +100°C	EPDM	Without legs
ARD-WL-35V-8	35	8	1" G	370	400	2	-10 / +100°C	EPDM	Without legs
ARD-WL-50V-8	50	8	1" G	370	695	2	-10 / +100°C	EPDM	With legs
ARD-WL-60V-8	60	8	1" G	370	800	2	-10 / +100°C	EPDM	With legs
ARD-WL-80V-8	80	8	1" G	450	800	2	-10 / +100°C	EPDM	With legs
ARD-WL-100V-8	100	8	1" G	450	900	3	-10 / +100°C	EPDM	With legs
ARD-WL-150V-8	150	8	1" G	520	1100	3	-10 / +100°C	EPDM	With legs
ARD-WL-200V-8	200	8	1" G	600	1100	3	-10 / +100°C	EPDM	With legs
ARD-WL-300V-8	300	8	1½" G	640	1200	3	-10 / +100°C	EPDM	With legs
ARD-WL-500V-8	500	8	1½" G	750	1500	3	-10 / +100°C	EPDM	With legs
ARD-WL-750V-8	750	8	1½" G	750	2000	3	-10 / +100°C	EPDM	With legs
ARD-WL-1000V-8	1000	8	2" G	800	2200	3	-10 / +100°C	EPDM	With legs
ARD-WL-2000V-8	2000	8	2" G	1100	2500	3	-10 / +100°C	EPDM	With legs
ARD-WL-3000V-8	3000	8	3" G	1200	2850	3	-10 / +100°C	BUTYL	With legs
ARD-WL-5000V-8	5000	8	3" G	1450	3750	3	-10 / +100°C	BUTYL	With legs

HORIZONTAL VESSELS

Product Code	Capacity (liters)	Max. Working Pressure (BAR)	Connection	Dimensions			Precharge Pressure (BAR)	Working Temperature °C	Membrane
				Ø mm	h mm	L mm			
ARD-WL-18H-8	18	8	1" G	250	300	400	2	-10 / +100°C	EPDM
ARD-WL-24H-8	24	8	1" G	250	300	430	2	-10 / +100°C	EPDM
ARD-WL-50H-8	50	8	1" G	370	420	580	2	-10 / +100°C	EPDM
ARD-WL-60H-8	60	8	1" G	370	420	680	2	-10 / +100°C	EPDM
ARD-WL-80H-8	80	8	1" G	460	500	620	2	-10 / +100°C	EPDM
ARD-WL-100H-8	100	8	1" G	460	500	750	3	-10 / +100°C	EPDM
ARD-WL-200H-8	200	8	1" G	600	700	950	3	-10 / +100°C	EPDM
ARD-WL-300H-8	300	8	1½" G	640	740	1100	3	-10 / +100°C	EPDM
ARD-WL-500H-8	500	8	1½" G	750	850	1400	3	-10 / +100°C	EPDM





waterline - medium pressure (10 bar)

Technical Specifications

Production vessel volumes	2 - 5000 lt.
Max. working pressure	10 bar
Operating temperature	-10 / +100°C
Factory precharge (2-80 lt.)	3 bar
Factory precharge (100-5000lt)	4 bar
Raw material	High grade carbon steel
Membrane material (bladder)	EPDM/BUTYL
Coating (cover)	Electro-static powder coating
Types of vessels	Vertical, vertical with legs and horizontal
Certifications	CE 97/23 PED directive, WRAS, EN 13831
Area of use	Portable water applications
Color	Blue / Red

Waterline pressure vessels with replaceable membrane. This line is ideal for every modern installation and can be applied to any type of pump. A compressor is not necessary since an air cushion, separated from the water by the EPDM membrane, maintains a constant pressure in the tank. These tanks can also be provided with stainless steel flanges. Available capacities are from 2 to 5000 liters. They can be certified by the PED/97/23/CE, WRAS and EN 13831.

VERTICAL VESSELS

Product Code	Capacity (liters)	Max. Working Pressure (BAR)	Connection	Dimensions		Precharge Pressure (BAR)	Working Temperature °C	Membrane	Type
				Ø mm	h mm				
ARD-WL-2V-10	2	10	¾" G	162	205	3	-10 / +100°C	EPDM	Without legs
ARD-WL-5V-10	5	10	¾" G	162	310	3	-10 / +100°C	EPDM	Without legs
ARD-WL-8V-10	8	10	¾" G	215	350	3	-10 / +100°C	EPDM	Without legs
ARD-WL-12V-10	12	10	¾" G	215	400	3	-10 / +100°C	EPDM	Without legs
ARD-WL-18V-10	18	10	1" G	250	400	3	-10 / +100°C	EPDM	Without legs
ARD-WL-24V-10	24	10	1" G	250	430	3	-10 / +100°C	EPDM	Without legs
ARD-WL-35V-10	35	10	1" G	370	400	3	-10 / +100°C	EPDM	Without legs
ARD-WL-50V-10	50	10	1" G	370	695	3	-10 / +100°C	EPDM	With legs
ARD-WL-60V-10	60	10	1" G	370	800	3	-10 / +100°C	EPDM	With legs
ARD-WL-80V-10	80	10	1" G	450	800	3	-10 / +100°C	EPDM	With legs
ARD-WL-100V-10	100	10	1" G	450	900	4	-10 / +100°C	EPDM	With legs
ARD-WL-150V-10	150	10	1" G	520	1100	4	-10 / +100°C	EPDM	With legs
ARD-WL-200V-10	200	10	1" G	600	1100	4	-10 / +100°C	EPDM	With legs
ARD-WL-300V-10	300	10	1¼" G	640	1200	4	-10 / +100°C	EPDM	With legs
ARD-WL-500V-10	500	10	1¼" G	750	1500	4	-10 / +100°C	EPDM	With legs
ARD-WL-750V-10	750	10	1¼" G	750	2000	4	-10 / +100°C	EPDM	With legs
ARD-WL-1000V-10	1000	10	2" G	800	2200	4	-10 / +100°C	EPDM	With legs
ARD-WL-2000V-10	2000	10	2" G	1100	2500	4	-10 / +100°C	EPDM	With legs
ARD-WL-3000V-10	3000	10	3" G	1200	2850	4	-10 / +100°C	BUTYL	With legs
ARD-WL-5000V-10	5000	10	3" G	1450	3750	4	-10 / +100°C	BUTYL	With legs

HORIZONTAL VESSELS

Product Code	Capacity (liters)	Max. Working Pressure (BAR)	Connection	Dimensions			Precharge Pressure (BAR)	Working Temperature °C	Membrane
				Ø mm	h mm	l mm			
ARD-WL-18H-10	18	10	1" G	250	300	400	3	-10 / +100°C	EPDM
ARD-WL-24H-10	24	10	1" G	250	300	430	3	-10 / +100°C	EPDM
ARD-WL-50H-10	50	10	1" G	370	420	580	3	-10 / +100°C	EPDM
ARD-WL-60H-10	60	10	1" G	370	420	680	3	-10 / +100°C	EPDM
ARD-WL-80H-10	80	10	1" G	460	500	620	3	-10 / +100°C	EPDM
ARD-WL-100H-10	100	10	1" G	460	500	750	4	-10 / +100°C	EPDM
ARD-WL-200H-10	200	10	1" G	600	700	950	4	-10 / +100°C	EPDM
ARD-WL-300H-10	300	10	1¼" G	640	740	1100	4	-10 / +100°C	EPDM
ARD-WL-500H-10	500	10	1¼" G	750	850	1400	4	-10 / +100°C	EPDM





waterline - high pressure (16 bar)

Technical Specifications

Production vessel volumes	8 - 5000 lt.
Max. working pressure	16 bar
Operating temperature	-10 / +100°C
Factory precharge (8-80 lt.)	4 bar
Factory precharge (100-5000lt)	5 bar
Raw material	High grade carbon steel
Membrane material (bladder)	EPDM/BUTYL
Coating (cover)	Electro-static powder coating
Types of vessels	Vertical, vertical with legs
Certifications	CE 97/23 PED directive, WRAS, EN 13831
Area of use	Portable water applications
Color	Blue / Red

Waterline pressure vessels with replaceable membrane. This line is ideal for every modern installation and can be applied to any type of pump. A compressor is not necessary since an air cushion, separated from the water by the EPDM membrane, maintains a constant pressure in the tank. These tanks can also be provided with stainless steel flanges. Available capacities are from 8 to 5000 liters. They can be certified by the PED/97/23/CE, WRAS and EN 13831.

VERTICAL VESSELS

Product Code	Capacity (liters)	Max. Working Pressure (BAR)	Connection	Dimensions		Precharge Pressure (BAR)	Working Temperature °C	Membrane	Type
				Ø mm	h mm				
ARD-WL-8V-16	8	16	¾" G	215	350	4	-10 / +100°C	EPDM	Without legs
ARD-WL-24V-16	24	16	1" G	250	430	4	-10 / +100°C	EPDM	Without legs
ARD-WL-50V-16	50	16	1" G	370	695	4	-10 / +100°C	EPDM	With legs
ARD-WL-80V-16	80	16	1" G	450	800	4	-10 / +100°C	EPDM	With legs
ARD-WL-100V-16	100	16	1" G	450	900	5	-10 / +100°C	EPDM	With legs
ARD-WL-200V-16	200	16	1½" G	600	1100	5	-10 / +100°C	EPDM	With legs
ARD-WL-300V-16	300	16	1½" G	640	1200	5	-10 / +100°C	EPDM	With legs
ARD-WL-500V-16	500	16	1½" G	750	1500	5	-10 / +100°C	EPDM	With legs
ARD-WL-750V-16	750	16	1½" G	750	2000	5	-10 / +100°C	EPDM	With legs
ARD-WL-1000V-16	1000	16	2" G	800	2200	5	-10 / +100°C	EPDM	With legs
ARD-WL-2000V-16	2000	16	2" G	1100	2500	5	-10 / +100°C	EPDM	With legs
ARD-WL-3000V-16	3000	16	3" G	1200	2850	5	-10 / +100°C	BUTYL	With legs
ARD-WL-5000V-16	5000	16	3" G	1450	3750	5	-10 / +100°C	BUTYL	With legs





waterline - over pressure (25 bar)

Technical Specifications

Production vessel volumes	2 - 5000 lt.
Max. working pressure	10 bar
Operating temperature	-10 / +100°C
Factory precharge (2-80 lt.)	3 bar
Factory precharge (100-5000lt)	4 bar
Raw material	High grade carbon steel
Membrane material (bladder)	EPDM/BUTYL
Coating (cover)	Electro-static powder coating
Types of vessels	Vertical, vertical with legs and horizontal
Certifications	CE 97/23 PED directive, WRAS, EN 13831
Area of use	Portable water applications
Color	Blue / Red

Waterline pressure vessels with replaceable membrane. This line is ideal for every modern installation and can be applied to any type of pump. A compressor is not necessary since an air cushion, separated from the water by the EPDM membrane, maintains a constant pressure in the tank. These tanks can also be provided with stainless steel flanges. Available capacities are from 8 to 5000 liters. They can be certified by the PED/97/23/CE, WRAS and EN 13831.

VERTICAL VESSELS

Product Code	Capacity (liters)	Max. Working Pressure (BAR)	Connection	Dimensions		Precharge Pressure (BAR)	Working Temperature °C	Membrane	Type
				Ø mm	h mm				
ARD-WL-8V-25	8	25	¾" G	215	350	4	-10 / +100°C	EPDM	Without legs
ARD-WL-24V-25	24	25	1" G	250	430	4	-10 / +100°C	EPDM	Without legs
ARD-WL-50V-25	50	25	1" G	370	695	4	-10 / +100°C	EPDM	With legs
ARD-WL-80V-25	80	25	1" G	450	800	4	-10 / +100°C	EPDM	With legs
ARD-WL-100V-25	100	25	1" G	450	900	5	-10 / +100°C	EPDM	With legs
ARD-WL-200V-25	200	25	1½" G	600	1100	5	-10 / +100°C	EPDM	With legs
ARD-WL-300V-25	300	25	1½" G	640	1200	5	-10 / +100°C	EPDM	With legs
ARD-WL-500V-25	500	25	1½" G	750	1500	5	-10 / +100°C	EPDM	With legs
ARD-WL-750V-25	750	25	1½" G	750	2000	5	-10 / +100°C	EPDM	With legs
ARD-WL-1000V-25	1000	25	2" G	800	2200	5	-10 / +100°C	EPDM	With legs
ARD-WL-2000V-25	2000	25	2" G	1100	2500	5	-10 / +100°C	EPDM	With legs
ARD-WL-3000V-25	3000	25	3" G	1200	2850	5	-10 / +100°C	BUTYL	With legs
ARD-WL-5000V-25	5000	25	3" G	1450	3750	5	-10 / +100°C	BUTYL	With legs





multiline

Technical Specifications

Production vessel volumes	2 - 5000 lt.
Max. working pressure	10 bar
Operating temperature	-10 / +100°C
Factory precharge (2-80 lt.)	3 bar
Factory precharge (100-50000lt)	4 bar
Raw material	High grade carbon steel
Membrane material (bladder)	EPDM/BUTYL
Coating (cover)	Electro-static powder coating
Types of vessels	Vertical, vertical with legs
Certifications	CE 97/23 PED directive, WRAS, EN 13831
Area of use	Multi water applications
Color	Blue / Red / White

Multifunctional sanitary vessels are designed to be fitted both into sanitary system as expansion tanks, suitable to absorb the water expansion volume generated by a changing temperature, as well as tanks for cold water sanitary systems.

VERTICAL VESSELS

Product Code	Capacity (liters)	Max. Working Pressure (BAR)	Connection	Dimensions		Precharge Pressure (BAR)	Working Temperature °C	Membrane	Type
				Ø mm	h mm				
ARD-ML-2V-10	2	10	¾" G	162	205	3	-10 / +100°C	EPDM	Without legs
ARD-ML-5V-10	5	10	¾" G	162	310	3	-10 / +100°C	EPDM	Without legs
ARD-ML-8V-10	8	10	¾" G	215	350	3	-10 / +100°C	EPDM	Without legs
ARD-ML-12V-10	12	10	¾" G	215	400	3	-10 / +100°C	EPDM	Without legs
ARD-ML-18V-10	18	10	1" G	250	400	3	-10 / +100°C	EPDM	Without legs
ARD-ML-24V-10	24	10	1" G	250	430	3	-10 / +100°C	EPDM	Without legs
ARD-ML-35V-10	35	10	1" G	370	400	3	-10 / +100°C	EPDM	Without legs
ARD-ML-50V-10	50	10	1" G	370	695	3	-10 / +100°C	EPDM	With legs
ARD-ML-60V-10	60	10	1" G	370	800	3	-10 / +100°C	EPDM	With legs
ARD-ML-80V-10	80	10	1" G	450	800	3	-10 / +100°C	EPDM	With legs
ARD-ML-100V-10	100	10	1" G	450	900	4	-10 / +100°C	EPDM	With legs
ARD-ML-150V-10	150	10	1" G	520	1100	4	-10 / +100°C	EPDM	With legs
ARD-ML-200V-10	200	10	1" G	600	1100	4	-10 / +100°C	EPDM	With legs
ARD-ML-300V-10	300	10	1½" G	640	1200	4	-10 / +100°C	EPDM	With legs
ARD-ML-500V-10	500	10	1½" G	750	1500	4	-10 / +100°C	EPDM	With legs
ARD-ML-750V-10	750	10	1½" G	750	2000	4	-10 / +100°C	EPDM	With legs
ARD-ML-1000V-10	1000	10	2" G	800	2200	4	-10 / +100°C	EPDM	With legs
ARD-ML-2000V-10	2000	10	2" G	1100	2500	4	-10 / +100°C	EPDM	With legs
ARD-ML-3000V-10	3000	10	3" G	1200	2850	4	-10 / +100°C	BUTYL	With legs
ARD-ML-5000V-10	5000	10	3" G	1450	3750	4	-10 / +100°C	BUTYL	With legs





solarline

Technical Specifications

Production vessel volumes	5 - 500 lt.
Max. working pressure	10 bar
Operating temperature	-10 / +110°C
Factory precharge (5-80 lt.)	3 bar
Factory precharge (100-500lt)	4 bar
Raw material	High grade carbon steel
Membrane material (bladder)	SBR/EPDM/BUTYL
Coating (cover)	Electro-static powder coating
Types of vessels	Vertical, vertical with legs
Certifications	CE 97/23 PED directive, EN 13831
Area of use	Solar energy applications
Color	Red / White

In the solar circuit, the particularly high temperature requires heat relief. The solar liquid reaches temperatures very high. Evaporates and can reach the solar station damaging essential parts such as pumps, fittings, gaskets and above all the tank membrane. Our special synthetic rubber membrane is specifically designed for SOLARLINE expansion vessels tanks, suitable to absorb the water expansion volume generated by a changing temperature, as well as tanks for cold water sanitary systems.

VERTICAL VESSELS

Product Code	Capacity (liters)	Max. Working Pressure (BAR)	Connection	Dimensions		Precharge Pressure (BAR)	Working Temperature °C	Membrane	Type
				Ø mm	h mm				
ARD-SL-5V-10	5	10	¾" G	162	310	3	-10 / +110°C	SBR / EPDM	Without legs
ARD-SL-8V-10	8	10	¾" G	215	350	3	-10 / +110°C	SBR / EPDM	Without legs
ARD-SL-12V-10	12	10	¾" G	215	400	3	-10 / +110°C	SBR / EPDM	Without legs
ARD-SL-18V-10	18	10	1" G	250	400	3	-10 / +110°C	SBR / EPDM	Without legs
ARD-SL-24V-10	24	10	1" G	250	430	3	-10 / +110°C	SBR / EPDM	Without legs
ARD-SL-35V-10	35	10	1" G	370	400	3	-10 / +110°C	SBR / EPDM	Without legs
ARD-SL-50V-10	50	10	1" G	370	695	3	-10 / +110°C	SBR / EPDM	With legs
ARD-SL-80V-10	80	10	1" G	450	800	3	-10 / +110°C	SBR / EPDM	With legs
ARD-SL-100V-10	100	10	1" G	450	900	4	-10 / +110°C	SBR / EPDM	With legs
ARD-SL-200V-10	200	10	1" G	600	1100	4	-10 / +110°C	SBR / EPDM	With legs
ARD-SL-300V-10	300	10	1¼" G	640	1200	4	-10 / +110°C	SBR / EPDM	With legs
ARD-SL-500V-10	500	10	1¼" G	750	1500	4	-10 / +110°C	SBR / EPDM	With legs



inoxline



Technical Specifications

Production vessel volumes	8 - 500 lt.
Max. working pressure	10 bar
Operating temperature	-10 / +100°C
Factory precharge (8-80 lt.)	3 bar
Factory precharge (100-500lt)	4 bar
Raw material	ANSI 304 stainless steel
Membrane material (bladder)	EPDM
Coating (cover)	Polisher finishing
Types of vessels	Vertical, vertical with legs, horizontal
Certifications	CE 97/23 PED directive, WRAS, EN 13831
Area of use	Multi hydro applications
Color	Natural

The expansion tanks in this line are entirely made of stainless steel. They are especially used for systems that produce sanitary hot water produced by a boiler or from plate heat exchangers. They are excellent choices for situations that require high hygienic standards and product life time that is practically limitless. The membrane is absolutely non-toxic and is drinking and food grade. They can also be used reduced flow pumps. Available volumes range from 8 to 500 liters, horizontal or vertical.



VERTICAL VESSELS

Product Code	Capacity (liters)	Max. Working Pressure (BAR)	Connection	Dimensions		Precharge Pressure (BAR)	Working Temperature °C	Membrane	Type
				Ø mm	h mm				
ARD-IL-8V-10	8	10	¾" G	215	350	3	-10 / +100°C	EPDM	without legs
ARD-IL-24V-10	24	10	1" G	250	430	3	-10 / +100°C	EPDM	without legs
ARD-IL-50V-10	50	10	1" G	370	695	3	-10 / +100°C	EPDM	with legs
ARD-IL-100V-10	100	10	1" G	450	900	4	-10 / +100°C	EPDM	with legs
ARD-IL-200V-10	200	10	1" G	600	1100	4	-10 / +100°C	EPDM	with legs
ARD-IL-300V-10	300	10	1½" G	640	1200	4	-10 / +100°C	EPDM	with legs
ARD-IL-500V-10	500	10	1½" G	750	1500	4	-10 / +100°C	EPDM	with legs

HORIZONTAL VESSELS

Product Code	Capacity (liters)	Max. Working Pressure (BAR)	Connection	Dimensions			Precharge Pressure (BAR)	Working Temperature °C	Membrane
				Ø mm	h mm	l mm			
ARD-IL-24H-10	24	10	1" G	250	300	430	3	-10 / +100°C	EPDM
ARD-IL-50H-10	50	10	1" G	370	420	580	3	-10 / +100°C	EPDM
ARD-IL-100H-10	100	10	1" G	460	500	750	4	-10 / +100°C	EPDM
ARD-IL-200H-10	200	10	1" G	600	700	950	4	-10 / +100°C	EPDM
ARD-IL-300H-10	300	10	1½" G	640	740	1100	4	-10 / +100°C	EPDM
ARD-IL-500H-10	500	10	1½" G	750	850	1400	4	-10 / +100°C	EPDM

hammerline

Technical Specifications

Production vessel volumes	2 - 300 lt.
Max. working pressure	16 bar
Operating temperature	-10 / +100°C
Factory precharge (2-80 lt.)	3 bar
Factory precharge (100-300lt)	4 bar
Raw material	High grade carbon steel
Membrane material (bladder)	EPDM / BUTYL
Coating (cover)	Electro-static powder coating
Types of vessels	Vertical, vertical with legs
Certifications	CE 97/23 PED directive, EN 13831
Area of use	Anti-water hammer applications
Color	Blue / Red

Anti-water hammer tanks with interchangeable membrane for Overpressure Reducer in Hydraulic System, hot and cold sanitary water circuits pressurizing surge tanks, refrigeration circuits.

VERTICAL VESSELS

Product Code	Capacity (liters)	Max. Working Pressure (BAR)	Connection	Dimensions		Precharge Pressure (BAR)	Working Temperature °C	Membrane	Type
				Ø mm	h mm				
ARD-HL-2V-16	2	16	¾" G	162	205	3	-10 / +100°C	EPDM	Without legs
ARD-HL-5V-16	5	16	¾" G	162	310	3	-10 / +100°C	EPDM	Without legs
ARD-HL-8V-16	8	16	¾" G	215	350	3	-10 / +100°C	EPDM	Without legs
ARD-HL-12V-16	12	16	¾" G	215	400	3	-10 / +100°C	EPDM	Without legs
ARD-HL-18V-16	18	16	1" G	250	400	3	-10 / +100°C	EPDM	Without legs
ARD-HL-24V-16	24	16	1" G	250	430	3	-10 / +100°C	EPDM	Without legs
ARD-HL-35V-16	35	16	1" G	370	400	3	-10 / +100°C	EPDM	Without legs
ARD-HL-50V-16	50	16	1" G	370	695	3	-10 / +100°C	EPDM	With legs
ARD-HL-80V-16	80	16	1" G	450	800	3	-10 / +100°C	EPDM	With legs
ARD-HL-100V-16	100	16	1" G	450	900	4	-10 / +100°C	EPDM	With legs
ARD-HL-150V-16	150	16	1" G	520	1100	4	-10 / +100°C	EPDM	With legs
ARD-HL-200V-16	200	16	1" G	600	1100	4	-10 / +100°C	EPDM	With legs
ARD-HL-300V-16	300	16	1½" G	640	1200	4	-10 / +100°C	EPDM	With legs



openline



Technical Specifications

Production vessel volumes	50 - 750 lt.
Max. working pressure	Atmospheric
Operating temperature	-10 / +100°C
Raw material	High grade carbon steel
Coating (cover)	Electro-static powder coating
Types of vessels	Vertical, vertical with legs
Area of use	Heating applications
Color	Red



Openline are expansion tanks for centralized open circuits suited to absorb the increased water volume when the temperature in the heating system increases. It is assembling to roof attics.

Product Code	Capacity (liters)	Max. Working Pressure (BAR)	Connection	Dimensions		Working Temperature °C
				Ø mm	h mm	
ARD-OL-50V	50	Atmospheric	1" G	370	695	-10 / +100°C
ARD-OL-80V	80	Atmospheric	1" G	450	800	-10 / +100°C
ARD-OL-100V	100	Atmospheric	1" G	450	900	-10 / +100°C
ARD-OL-200V	200	Atmospheric	1¼" G	600	1100	-10 / +100°C
ARD-OL-300V	300	Atmospheric	1¼" G	640	1200	-10 / +100°C
ARD-OL-500V	500	Atmospheric	1¼" G	750	1500	-10 / +100°C
ARD-OL-750V	750	Atmospheric	1¼" G	750	2000	-10 / +100°C

membranes

Technical Specifications

Production vessel volumes	2 - 5000 lt.
Operating temperature	-10 / +100°C
Membrane material (bladder)	EPDM / BUTYL / SBR
Certifications	EN 13831
Area of use	Multi hydro applications
Color	Black

Membranes are our most necessary spare parts. Company can sell membranes both as spare part or trade. All size of membrane are at stock and suitable for shipment.

Product Code	Capacity (liters)	Dimensions			Working Temperature °C	Membrane
		Vessel hole Ø(mm)	Mouth outer Ø(mm)	Lenght (mm)		
ARD-MBR-2-5	2-5	50	75	155	-10 / +100°C	EPDM / BUTYL / SBR
ARD-MBR-8-12	8-12	50	75	275	-10 / +100°C	EPDM / BUTYL / SBR
ARD-MBR-18-24	18-24	85	115	260	-10 / +100°C	EPDM / BUTYL / SBR
ARD-MBR-35-50	35-50	85	115	340	-10 / +100°C	EPDM / BUTYL / SBR
ARD-MBR-60-80	60-80	85	115	560	-10 / +100°C	EPDM / BUTYL / SBR
ARD-MBR-80-100	80-100	85	115	710	-10 / +100°C	EPDM / BUTYL / SBR
ARD-MBR-100-150	100-150	85	115	730	-10 / +100°C	EPDM / BUTYL / SBR
ARD-MBR-150-200	150-200	85	115	810	-10 / +100°C	EPDM / BUTYL / SBR
ARD-MBR-200-300	200-300	150	200	1000	-10 / +100°C	EPDM / BUTYL / SBR
ARD-MBR-500-750	500-750	150	200	1500	-10 / +100°C	EPDM / BUTYL / SBR
ARD-MBR-1000-1500	1000-1500	200	260	2100	-10 / +100°C	EPDM / BUTYL / SBR
ARD-MBR-1500-2000	1500-2000	200	260	2550	-10 / +100°C	EPDM / BUTYL / SBR
ARD-MBR-3000	3000	200/260	260/315	2850	-10 / +100°C	EPDM / BUTYL / SBR
ARD-MBR-5000	5000	200/260	260/315	3750	-10 / +100°C	EPDM / BUTYL / SBR



ARD EXPANSION VESSELS



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ISO
9001: 2008
REGISTERED



EN 13831

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PED/97/23