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industrial mechanical systems

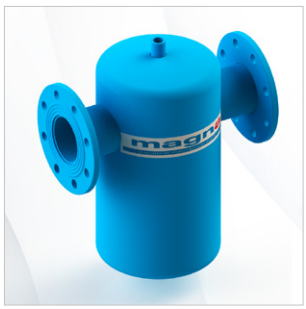
Real Quality, Full Certification

Expansion Tanks •
Boilers and Accumulation Systems •
Separators •







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Necessary technical documentation, material certificates, test reports, and quality files are prepared and delivered in full for international projects. This approach accelerates the process of compliance with regulations of different countries and offers a secure supply chain to our customers.

At **Magna Mekanik**, logistics organization and shipment planning in **export operations** are carried out within a disciplined systematic; international deliveries in large-volume tank and pressure vessel projects are carried out **on time and safely.**

Türkiye Factory | TR

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Real Quality,
Full Certification

Our production infrastructure has design and manufacturing capabilities in accordance with **EN 13445, PED 2014/68/EU**, and relevant European norms. Depending on project requirements, design and production processes in accordance with **ASME** standards are also carried out.

Our quality control processes are supported by dimensional checks, welding inspections, hydrostatic tests, and, where necessary, **radiographic / ultrasonic tests**. By applying disciplined control mechanisms at every stage of production, both product safety and long-lasting performance are guaranteed.

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about magna mekanik

Magna Mekanik is an industrial enterprise operating with high engineering capabilities in the field of industrial pressure vessels and tank systems, carrying out design and production in an integrated manner. Our company, established in **2017** with a vision of quality, standard compliance, and sustainable growth, has become a reliable manufacturer in the heavy industry segment in a short time.

Our fields of activity include LPG storage tanks, cryogenic tanks, expansion tanks, air tanks, and custom-designed pressure vessel systems. Our production processes are carried out in accordance with **EN, PED,** and **ASME** norms; engineering calculations, material selection, and manufacturing controls are carried out within the framework of international standards.

Today, **Magna Mekanik** carries out pressure vessel and tank production for the heavy industry segment in its modern facility with **6,000** m^2 closed and **15,000** m^2 open area. Our production infrastructure is equipped with high-tonnage forming systems, advanced CNC machining centers, and powerful welding equipment, and has an annual production capacity of **5,000** tons.


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Machine Park

Magna Mekanik manufactures pressure vessels and tanks for the heavy industry segment in its modern facility with **6,000** m² of closed and **15,000** m² of open space. Our production infrastructure is equipped with high-tonnage forming systems, advanced CNC machining centers, and powerful welding equipment, and has an annual production capacity of **5,000** tons.

01 PRODUCTION POWER AND CAPACİTY

- 250, 350, 400 ton and 600 ton hydraulic press systems
- 150 ton workshop press
- High-capacity cylinder machines (SBM 200 / SBM 340) – 4 units
- Hydraulic skirt cutting and flange press systems – 4 units
- Heavy sheet metal forming operations are performed with precision.

02 CNC AND PRECİSİON MACHİNİNG INFRASTRUCTURE

- CNC bridge machining center with a 3200x2000 mm machining area
- CNC vertical machining machines
- CNC laser cutting systems
- CNC plasma cutting machines
- Baykal APHS 41240 hydraulic press brake
- Baykal MGH 4110 hydraulic guillotine shear

03 WELDING AND AUTOMATİON INFRASTRUCTURE

Magna Mekanik actively uses over 100 welding equipment.
Our welding infrastructure is supported by:

- Column boom submerged arc welding systems (6 m and 8 m) – 2 units
- Circular and linear welding machines – 5 units
- Circular gantry welding machine – 1 unit
- Multiple gas shielded and argon welding machines – 83 units
- Automatic positioning and rotator systems – 10 units

Production processes, carried out within the framework of procedural welding applications (WPS / PQR), are performed to a high quality standard with both manual and automatic systems.

04 TESTİNG, SURFACE TREATMENT AND LOGİSTİCS INFRASTRUCTURE

In our facility, product safety is verified with pressure testing machines with capacities of 60 bar and 80 bar; surface treatments are completed in a controlled environment with sandblasting systems, a booth painting system, and an industrial oven.

In the production area, the safe transportation of large-volume tanks and pressure vessels is ensured with multiple 20-ton capacity crane systems, forklifts, and auxiliary transportation equipment.

Contents

Pressure Vessels and Separators

Domestic Products

“Expansion Tanks Group”

Closed Expansion Tank 10 BAR
Closed Expansion Tank 16 BAR
Closed Expansion Tank 25 BAR
Stainless Steel Expansion Tank
Spherical Expansion Tank
Footless Expansion Tank
Horizontal Expansion Tank
Expansion Tank with Compressor
Open-Type Expansion Tank
Horizontal Open-Type Expansion Tank
Membrane - Made in Türkiye
Membrane - Made in Europe

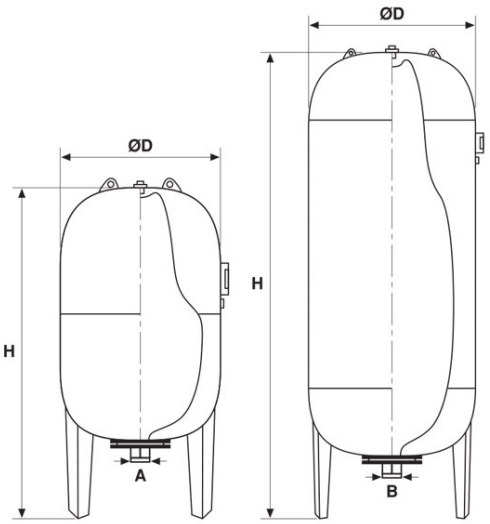
1 CLOSED EXPANSION TANK 10BAR

CAPACITY : 35 LT - 5.000 LT

PREMIUM MADE IN TURKIYE QUALITY

System reliability starts with precise pressure control.

Absorbs water expansion, preventing pressure fluctuations and protecting system equipment. Used in heating, cooling, and booster systems.



PRODUCT CODE	VOLUME LT	MAXIMUM OPERATING PRESSURE	DIAMETER MM	HEIGHT MM	THICKNESS MM	PORT DIAMETER	MEMBRANE
MDKGT 35/10	35	10 BAR	380	620	1.2	1"	EPDM
MDKGT 50/10	50	10 BAR	380	745	1.2	1"	EPDM
MDKGT 60/10	60	10 BAR	380	870	1.2	1"	EPDM
MDKGT 80/10	80	10 BAR	470	760	1.5	1"	EPDM
MDKGT 100/10	100	10 BAR	470	870	1.5	1"	EPDM
MDKGT 100/10 *	100	10 BAR	470	900	1.5	1"	EPDM
MDKGT 150/10 *	150	10 BAR	470	1150	1.5	1"	EPDM
MDKGT 200/10 *	200	10 BAR	640	1080	1.8	1"	EPDM
MDKGT 300/10 *	300	10 BAR	640	1240	1.8	11/2"	EPDM
MDKGT 500/10 *	500	10 BAR	800	1400	2.0	11/2"	EPDM
MDKGT 750/10 *	750	10 BAR	800	1700	3.0	2"	EPDM
MDKGT 1000/10 *	1000	10 BAR	800	2200	3.0	2"	EPDM
MDKGT 1500/10 *	1500	10 BAR	960	2450	4.0	2"	EPDM
MDKGT 2000/10 *	2000	10 BAR	1100	2600	5.0	2"	EPDM
MDKGT 2500/10 *	2500	10 BAR	1100	2800	5.0	2"	EPDM
MDKGT 3000/10 *	3000	10 BAR	1200	2850	5.0	2'12"	EPDM
MDKGT 4000/10 *	4000	10 BAR	1450	3100	6.0	3"	EPDM
MDKGT 5000/10 *	5000	10 BAR	1450	3100	6.0	3"	EPDM

SUPPLEMENTARY INFO

- Our tanks are **CE certified** in accordance with the **2014/68/EU** Pressure Equipment Directive.
- Our tanks are manufactured according to **TS EN 13831** standards.
- Our tanks are suitable for use in both heating and pressure booster systems.
- Operating Temperature: -10°C / +99°C
- Resistant to acids, bases, and solvents..

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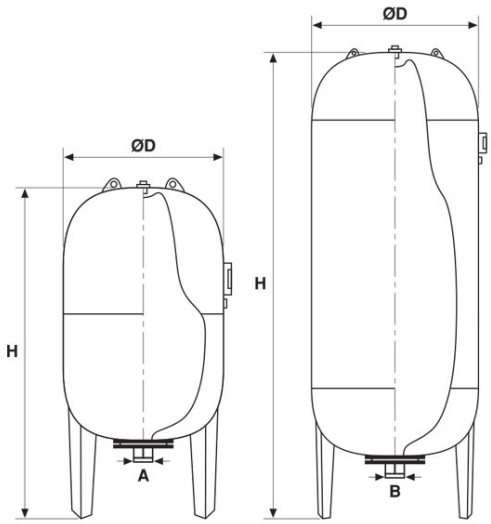
CLOSED EXPANSION TANK 16BAR

CAPACITY : 35 LT - 5.000 LT

2



PRODUCT CODE	VOLUME LT	MAXIMUM OPERATING PRESSURE	DIAMETER MM	HEIGHT MM	THICKNESS MM	PORT DIAMETER	MEMBRANE
MDKGT 35/16	35	16 BAR	380	620	1.5	1"	EPDM
MDKGT 50/16	50	16 BAR	380	745	2.0	1"	EPDM
MDKGT 60/16	60	16 BAR	380	870	2.0	1"	EPDM
MDKGT 80/16	80	16 BAR	470	760	2.0	1"	EPDM
MDKGT 100/16 *	100	16 BAR	470	900	2.0	1"	EPDM
MDKGT 150/16 *	150	16 BAR	470	1150	2.0	1"	EPDM
MDKGT 200/16 *	200	16 BAR	640	1080	3.0	1"	EPDM
MDKGT 300/16 *	300	16 BAR	640	1240	3.0	11/2"	EPDM
MDKGT 500/16 *	500	16 BAR	800	1400	3.0	11/2"	EPDM
MDKGT 750/16 *	750	16 BAR	800	1700	4.0	2"	EPDM
MDKGT 1000/16 *	1000	16 BAR	800	2200	5.0	2"	EPDM
MDKGT 1500/16 *	1500	16 BAR	960	2450	6.0	2"	EPDM
MDKGT 2000/16 *	2000	16 BAR	1100	2600	7.0	2"	EPDM
MDKGT 2500/16 *	2500	16 BAR	1100	2800	7.0	2"	EPDM
MDKGT 3000/16 *	3000	16 BAR	1200	2850	7.0	2'12"	EPDM
MDKGT 4000/16 *	4000	16 BAR	1450	3100	8.0	3"	EPDM
MDKGT 5000/16 *	5000	16 BAR	1450	3100	8.0	3"	EPDM

SUPPLEMENTARY INFO

- Our tanks are **CE certified** in accordance with the **2014/68/EU** Pressure Equipment Directive.
- Our tanks are manufactured according to **TS EN 13831** standards.
- Our tanks are suitable for use in both heating and pressure booster systems.
- Operating Temperature: -10°C / +99°C
- Resistant to acids, bases, and solvents..

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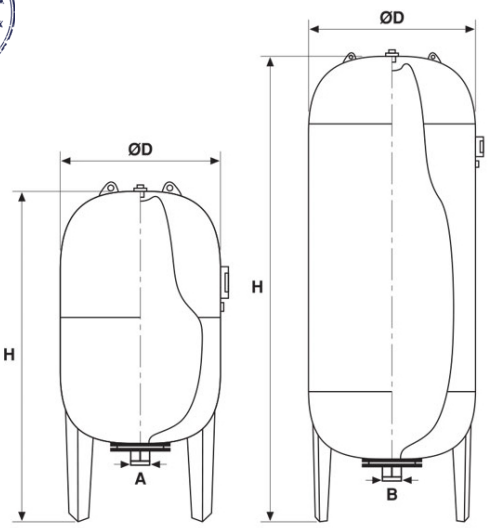
3 CLOSED EXPANSION TANK 25BAR

CAPACITY : 100 LT - 5.000 LT



PRODUCT CODE	VOLUME LT	MAXIMUM OPERATING PRESSURE	DIAMETER MM	HEIGHT MM	THICKNESS MM	PORT DIAMETER	MEMBRANE
MDKGT 100/25 *	100	25 BAR	470	900	4.0	1”	EPDM
MDKGT 150/25 *	150	25 BAR	470	1150	4.0	1”	EPDM
MDKGT 200/25 *	200	25 BAR	640	1080	5.0	1”	EPDM
MDKGT 300/25 *	300	25 BAR	640	1240	5.0	11/2”	EPDM
MDKGT 500/25 *	500	25 BAR	800	1400	5.0	11/2”	EPDM
MDKGT 750/25 *	750	25 BAR	800	1700	8.0	2”	EPDM
MDKGT 1000/25 *	1000	25 BAR	800	2200	8.0	2”	EPDM
MDKGT 1500/25 *	1500	25 BAR	960	2450	8.0	2”	EPDM
MDKGT 2000/25 *	2000	25 BAR	1100	2600	10.0	2”	EPDM
MDKGT 3000/25 *	3000	25 BAR	1200	2850	10.0	2/12”	EPDM
MDKGT 4000/25 *	4000	25 BAR	1450	3100	10.0	3”	EPDM
MDKGT 5000/25 *	5000	25 BAR	1450	3100	10.0	3”	EPDM

SUPPLEMENTARY INFO

- Our tanks are **CE certified** in accordance with the **2014/68/EU** Pressure Equipment Directive.
- Our tanks are manufactured according to **TS EN 13831** standards.
- Our tanks are suitable for use in both heating and pressure booster systems.
- Operating Temperature: -10°C / +99°C
- Resistant to acids, bases, and solvents..

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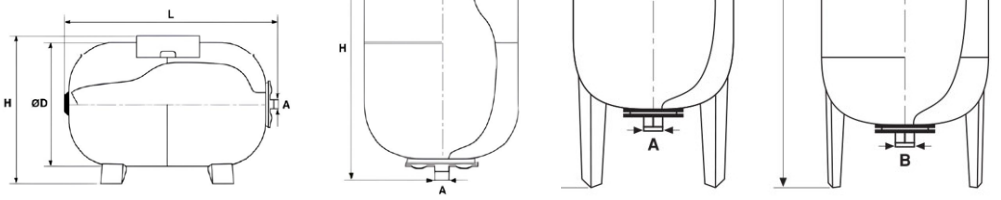
CLOSED EXPANSION TANK STAINLESS

CAPACITY : 24 LT - 1.500 LT

4

A durable solution designed for demanding environments as well as food and hygienic applications.

Provides high corrosion resistance with stainless steel construction. Used in hygienic and process systems.



PRODUCT CODE	VOLUME LT	MAXIMUM OPERATING PRESSURE	DIAMETER MM	HEIGHT MM	THICKNESS MM	PORT DIAMETER	MEMBRANE
STAINLESS STEEL CYLINDRICAL TYPE FOOTLESS EXPANSION TANK							
M PSKGT 24/10	24	10 BAR	260	430	0.8	1”	EPDM
M PSKGT 24/10	50	10 BAR	370	535	1.0	1”	EPDM
STAINLESS STEEL HORIZONTAL MOTOR CHASSIS TYPE EXPANSION TANK							
M PSKGT 24/10	24	10 BAR	260	300	0.8	1”	EPDM
M PSKGT 24/10	50	10 BAR	370	405	1.0	1”	EPDM
M PSKGT 24/10	100	10 BAR	490	490	1.2	1”	EPDM
STAINLESS STEEL TYPE WITH FEET AND MANOMETER EXPANSION TANK							
M PSKGT 24/10	50	10 BAR	370	680	1.0	1”	EPDM
M PSKGT 24/10	100	10 BAR	460	970	1.2	1”	EPDM
M PSKGT 24/10	150	10 BAR	508	1070	1.5	1”	EPDM
M PSKGT 24/10	200	10 BAR	585	1120	2.0	1”	EPDM
M PSKGT 24/10	300	10 BAR	635	1240	2.0	11/4”	EPDM
M PSKGT 24/10	500	10 BAR	750	1520	2.0	11/4”	EPDM
M PSKGT 24/10	750	10 BAR	800	1690	2.0	11/4”	EPDM
M PSKGT 24/10	1000	10 BAR	800	2200	3.0	2”	EPDM
M PSKGT 24/10	1500	10 BAR	958	2430	4.0	2”	EPDM

SUPPLEMENTARY INFO

- Our tanks are **CE certified** in accordance with the **2014/68/EU** Pressure Equipment Directive.
- Our tanks are manufactured according to **TS EN 13831** standards.
- Our tanks are suitable for use in both heating and pressure booster systems.
- Operating Temperature: -10°C / +99°C
- Resistant to acids, bases, and solvents..

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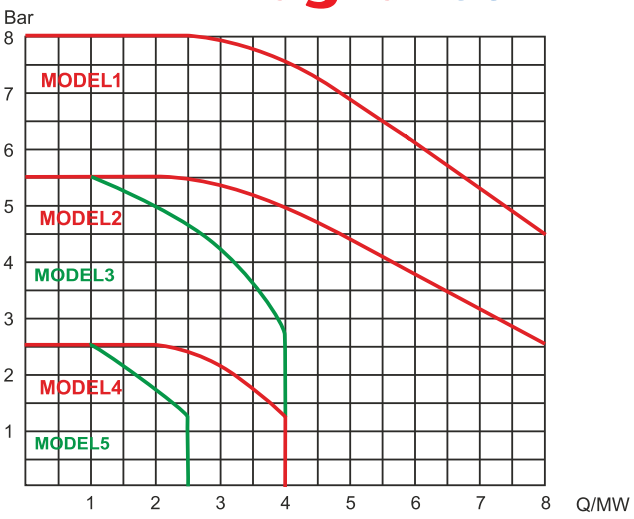
5 COMPRESSOR-CONTROLLED EXPANSION TANK

MagnaTech **CAPACITY :** 200 LT - 5.000 LT

New Product

MagnaTech



SELECTING CRITERIA

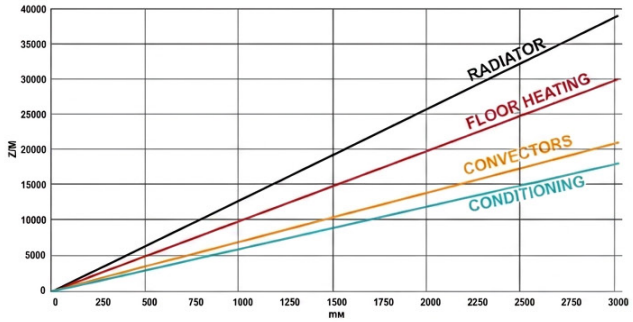
The selection of the **Magnatech** model suitable for the application is based on the sample building project data provided. Considering the system water content, the static height of the building or hydrostatic head, and the operating temperature, the pre-charge pressure and expansion volume required by the system must be calculated precisely. One or more **MAGNA** pressure tanks must be matched for each Magnatech device. The volume of this tank is determined by the following formula:

Volume = 1.1 x (V x e + 0.005 x V)
V = System water volume
e = Expansion coefficient of the fluid
V = Total water volume in the system
e = Expansion coefficient of the fluid

CALCULATION EXAMPLE

Building project data: 2 MW – Static Height: 30 meters, system volume: 20,000 liters, operating temperature: 90°C.
In the table above, the Watech Pro 1-55 model was identified, showing the intersection between power and static pressure. The tank volume was determined using the formula mentioned above. Based on the example, taking into account that the expansion coefficient value from 10°C to 90°C is 0.036 (calculated as per the example), it was determined that a volume of 902 liters is suitable for a 1000-liter tank.

Generally, the system water volume is unknown; therefore, the following table can be used to estimate the fluid quantity according to the type of device used.



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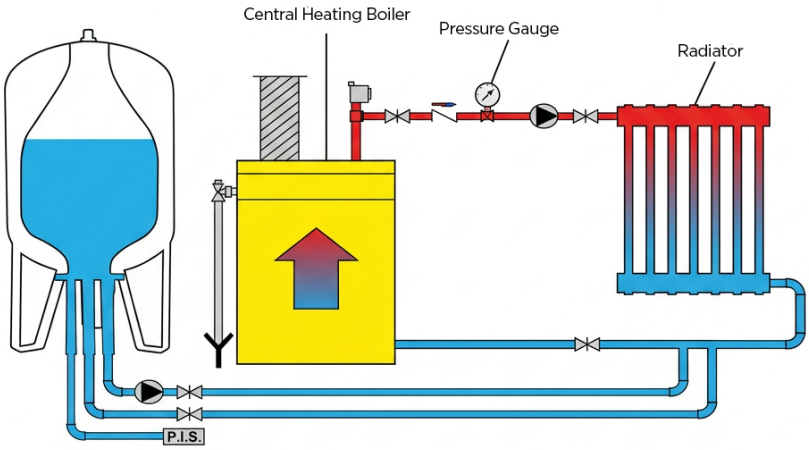
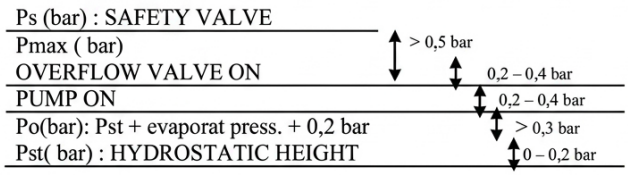
COMPRESSOR-CONTROLLED EXPANSION TANK

CAPACITY : 200 LT - 5.000 LT

MagnaTech

5





HEATING PHASE

When the system pressure rises—for example, if volume changes occur during the subsequent heating phase—**Magnatech** detects the increase via its pressure sensor and issues a command to open the overflow valve. The expansion fluid is stored inside the special coated, unpressurized (atmospheric) **Magna** tank. To maintain pressure balance and avoid any sudden fluctuations, valve control is performed in "Step-by-step" mode.

COOLING PHASE

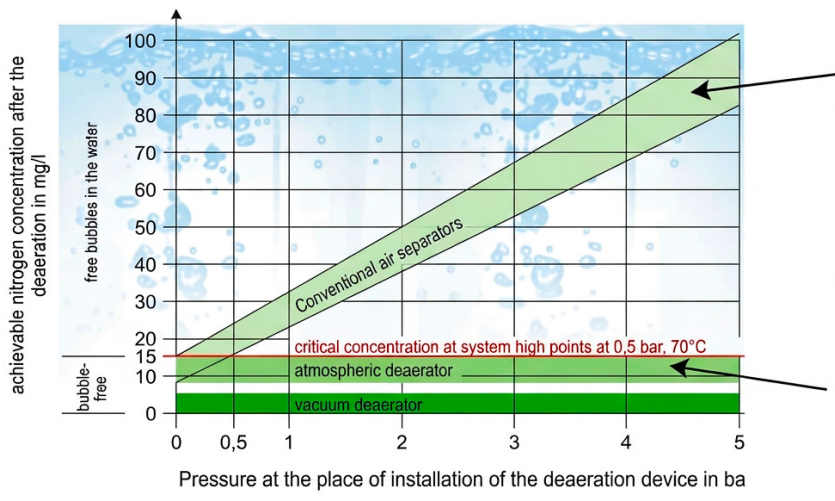
If a pressure drop occurs—for instance, following a decrease in fluid volume caused by the cooling of the heating system—**Magnatech** initiates the pumping system to reintroduce stored water into the system, re-establishing the pre-determined pressure level. The activation and deactivation of the pumping group are carried out in **SOFT START** and **SOFT STOP** modes, thereby preventing water hammer and noise.

DEAERATION (DEGASSING)

Magnatech is equipped with a deaeration function. This function can be programmed and managed via the user menu on the control panel for continuous, precise, or intermittent operation. The principle is based on Henry's Law. When the deaeration program is activated, Magnatech opens the overflow valve instantly; the pump group then draws water from the system (saturated with gas under pressure) and transfers it into the atmospheric tank. Following the aforementioned principle, a specific amount of gas is released. The fluid is then reintroduced to the system with minimal gas content. The diagram below shows the amount of removed gas that Magnatech can guarantee.

AUTOMATIC MAKE-UP (FILLING)

There are several features designed to identify fluid deficiencies in the system, such as minor losses during the initial start-up phase or accidental leaks in the system. **Magnatech** has the capability to operate in automatic mode to restore the system's fluid levels. In automatic mode, the operating logic alerts the operator to potential leaks or faulty piping by reporting the number and frequency of filling cycles.



6 CLOSED EXPANSION TANK SPHERICAL

CAPACITY : 24 LT

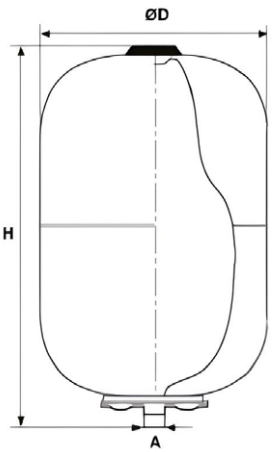
Stable pressure, efficient system..

Stores compressed air to ensure system stability and balance sudden consumption fluctuations.

PRODUCT CODE	VOLUME LT	MAXIMUM OPERATING PRESSURE	DIAMETER MM	HEIGHT MM	THICKNESS MM	PORT DIAMETER	MEMBRANE
MK KGT 24/10	24	10 BAR	355	360	1.0	1"	EPDM
MK KGT 24/16	24	16 BAR	355	360	2.0	1"	EPDM
MK KGT 24/25	24	25 BAR	355	360	3.0	1"	EPDM

7 CLOSED EXPANSION TANK FOOTLESS

CAPACITY : 5 LT - 50 LT



SUPPLEMENTARY INFO

- Our tanks are **CE certified** in accordance with the **2014/68/EU** Pressure Equipment Directive.
- Our tanks are manufactured according to **TS EN 13831** standards.
- Our tanks are suitable for use in both heating and pressure booster systems.
- Operating Temperature: -10°C / +99°C
- Resistant to acids, bases, and solvents..

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PRODUCT CODE	VOLUME LT	MAXIMUM OPERATING PRESSURE	DIAMETER MM	HEIGHT MM	THICKNESS MM	PORT DIAMETER	MEMBRANE
MAY KGT 5/6	5	6 BAR	160	315	1.0	1"	EPDM
MAY KGT 8/6	8	6 BAR	220	300	1.0	1"	EPDM
MAY KGT 12/6	12	6 BAR	270	340	1.0	1"	EPDM
MAY KGT 16/8	16	8 BAR	270	350	1.0	1"	EPDM
MAY KGT 20/8	20	8 BAR	270	415	1.0	1"	EPDM
MAY KGT 24/8	24	8 BAR	270	520	1.0	1"	EPDM
MAY KGT 35/10	35	10 BAR	380	410	1.2	1"	EPDM
MAY KGT 50/10	50	10 BAR	380	575	1.2	1"	EPDM

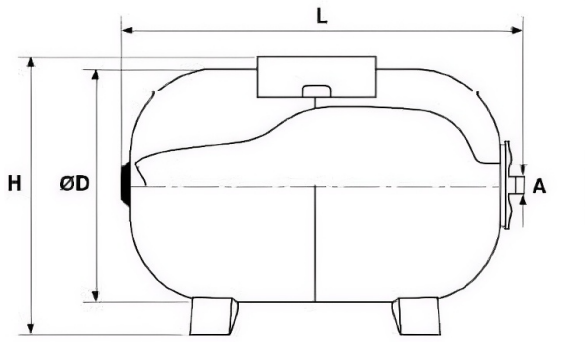
CLOSED EXPANSION TANK HORIZONTAL

CAPACITY : 35 LT - 5.000 LT

8

Reliable solutions even in limited spaces.

Horizontal design allows installation in low-height areas, ***provides a suitable structure for mounting motor equipment on the tank****, and ensures pressure balancing.*



PRODUCT CODE	VOLUME LT	MAXIMUM OPERATING PRESSURE	DIAMETER MM	HEIGHT MM	THICKNESS MM	PORT DIAMETER	MEMBRANE
10 BAR							
MY KGT 24/10	24	10 BAR	270	310	1.0	1"	EPDM
MY KGT 50/10	50	10 BAR	380	410	1.2	1"	EPDM
MY KGT 60/10	60	10 BAR	380	410	1.2	1"	EPDM
MY KGT 80/10	80	10 BAR	430	510	1.2	1"	EPDM
MY KGT 100/10	100	10 BAR	480	510	1.5	1"	EPDM
16 BAR							
MDKGT 24/16	24	16 BAR	270	310	1.5	1"	EPDM
MDKGT 50/16	50	16 BAR	380	410	2.0	1"	EPDM
MDKGT 60/16	60	16 BAR	380	410	2.0	1"	EPDM
MDKGT 80/16	80	16 BAR	430	510	2.0	1"	EPDM
MDKGT 100/16	100	16 BAR	480	510	2.0	1"	EPDM
25 BAR							
MDKGT 24/25	24	25 BAR	270	310	3.0	1"	EPDM
MDKGT 50/25	50	25 BAR	380	410	3.0	1"	EPDM
MDKGT 100/25	100	25 BAR	430	410	4.0	1"	EPDM

SUPPLEMENTARY INFO

- Our tanks are **CE certified** in accordance with the **2014/68/EU** Pressure Equipment Directive.
- Our tanks are manufactured according to **TS EN 13831** standards.
- Our tanks are suitable for use in both heating and pressure booster systems.
- Operating Temperature: -10°C / +99°C
- Resistant to acids, bases, and solvents..

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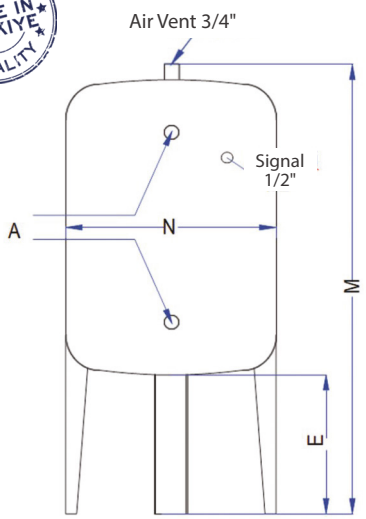
9 OPEN-TYPE EXPANSION TANK

CAPACITY : 50 LT - 200 LT



Simple design, reliable operation.

In open-type solid fuel heating systems, it stores expansion water to ensure system safety and maintain pressure balance.

PRODUCT CODE	VOLUME LT	DIAMETER N	HEIGHT E+K	SIGNAL & DRAIN	INLET OUTLET	AIR VENT
A/AGT 50	50	380	750	1/2”	3/4”	3/4”
A/AGT 80	80	470	770	1/2”	3/4”	3/4”
A/AGT 120	120	470	920	1/2”	3/4”	3/4”
A/AGT 200	200	640	1080	1/2”	1 1/4”	3/4”
A/AGT 300	300	640	1240	1/2”	1 1/4”	3/4”
A/AGT 500	500	800	1400	1/2”	1 1/4”	3/4”
A/AGT 750	750	800	1700	1/2”	2”	3/4”
A/AGT 1000	1000	800	2200	1/2”	2”	3/4”

SUPPLEMENTARY INFO

- Available in a capacity range of 50 - 200 liters.
- Coated with electrostatic powder paint resistant to external factors and corrosion.
- 50, 80, and 100 L models can be wall-mounted thanks to their special design.
- Provides ease of installation through standardized production.
- Features an aesthetic appearance.
- Offers a long service life.

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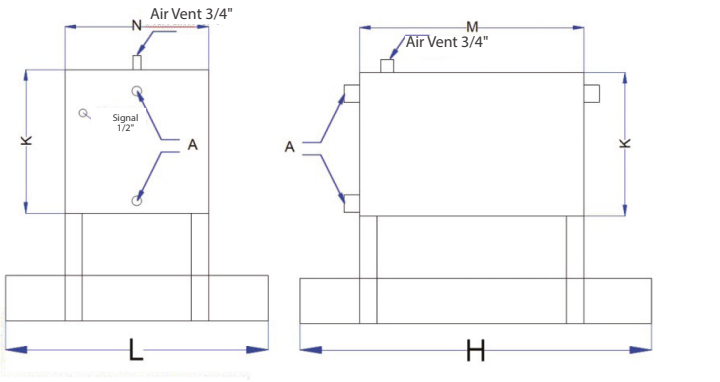
industrial mechanical systems

OPEN-TYPE EXPANSION TANK

CAPACITY : 300 LT - 2.000 LT **HORIZONTAL**

10



PRODUCT CODE	VOLUME LT	LENGTH G	HEIGHT K	TRAY DIMENSIONS WIDTH (L)	TRAY DIMENSIONS HEIGHT (H)	INLET RETURN A	OVERFLOW D
A/AGT-300	300	913	680	1113	780	1 1/2"	1 1/2"
A/AGT-400	400	1263	680	1463	780	1 1/2"	1 1/2"
A/AGT-500	500	1276	750	1476	850	1 1/2"	1 1/2"
A/AGT-600	600	1226	850	1426	950	1 1/2"	1 1/2"
A/AGT-800	800	1312	958	1512	1058	1 1/2"	1 1/2"
A/AGT-1000	1.000	1562	958	1762	1058	1 1/2"	1 1/2"
A/AGT-1200	1.200	1822	958	2022	1058	1 1/2"	1 1/2"
A/AGT-1400	1.400	1640	1200	1840	1300	2"	2"
A/AGT-1600	1.600	1740	1200	1940	1300	2"	2"
A/AGT-1800	1,800	1890	1200	2090	1300	2"	2"
A/AGT-2000	2,000	1900	1250	2100	1450	2"	2"

SUPPLEMENTARY INFO

- Available in a capacity range of 300 - 2000 liters.
- Coated with industrial rapid paint resistant to external factors and corrosion.
- Provides ease of installation through standardized production.
- Features an aesthetic appearance.
- Offers a long service life.
- If insulation is required, aluminum-clad sheet metal is applied over rock wool.

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11 MEMBRANE MADE IN EUROPE

CAPACITY : 2/3 LT - 10.000 LT

The unseen force behind system stability

Separates liquid and gas to maintain pressure stability.

PRODUCT CODE	VOLUME LT	MAXIMUM OPERATING PRESSURE	PRODUCT TYPE	HEIGHT MM	NECK DIAMETER
M İMEM 01	2/3	25 BAR	FLAT TYPE - TOP CLOSED	135	54
M İMEM 02	5/8	25 BAR	FLAT TYPE - TOP CLOSED	155	54
M İMEM 03	8/12	25 BAR	FLAT TYPE - TOP CLOSED	200	54
M İMEM 04	19/24	25 BAR	FLAT TYPE - TOP CLOSED	260	86
M İMEM 05	35/50	25 BAR	FLAT TYPE - TOP CLOSED	335	86
M İMEM 06	80/100	25 BAR	DOUBLE VOLUME - TOP CLOSED	630	86
M İMEM 07	80/100	25 BAR	DOUBLE VOLUME - TOP CLOSED	730	86
M İMEM 08	100/150	25 BAR	DOUBLE VOLUME - TOP CLOSED	810	86
M İMEM 09	150/200	25 BAR	DOUBLE VOLUME - TOP CLOSED	960	86
M İMEM 10	150/250	25 BAR	DOUBLE VOLUME - TOP CLOSED	1000	150
M İMEM 11	200/300	25 BAR	DOUBLE VOLUME - TOP CLOSED	1350	150
M İMEM 12	500/750	25 BAR	DOUBLE VOLUME - TOP CLOSED	1850	150
M İMEM 13	750/1000	25 BAR	DOUBLE VOLUME - TOP CLOSED	2100	210
M İMEM 14	1000/1500	25 BAR	BELLOWS	2200	210
M İMEM 15	2000	25 BAR	CUSTOM MANUFACTURING	---	---
M İMEM 16	2500	25 BAR	CUSTOM MANUFACTURING	---	---
M İMEM 17	3000	25 BAR	CUSTOM MANUFACTURING	---	---
M İMEM 18	4000	25 BAR	CUSTOM MANUFACTURING	---	---
M İMEM 19	5000	25 BAR	CUSTOM MANUFACTURING	---	---
M İMEM 20	10000	25 BAR	CUSTOM MANUFACTURING	---	---

SUPPLEMENTARY INFO

- Membranes for capacities of 2000 L and below are made of **EPDM** material and hold hygiene certification.
- Membranes for capacities of 2500 L and above are manufactured from **BUTYL** material.
- Can be used safely in all tanks within the 6 - 10 - 16 - 25 Bar classes at temperatures between -10°C and +99°C.
- Please consider tank volume, flange diameter, and membrane length when selecting a membrane.
- Our membranes are suitable for use in both expansion tanks and pressure booster tanks.

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MEMBRANE MADE IN TÜRKİYE

CAPACITY : 24 LT - 1.500 LT

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PRODUCT CODE	VOLUME LT	MAXIMUM OPERATING PRESSURE	PRODUCT TYPE	HEIGHT MM	NECK DIAMETER
M YMEM 01	24	25 BAR	EPDM MEMBRANE	260	80
M YMEM 02	35/50	25 BAR	EPDM MEMBRANE	330	80
M YMEM 03	50/60/80	25 BAR	LUGGED EPDM MEMBRANE	560	80
M YMEM 04	80/100	25 BAR	LUGGED EPDM MEMBRANE	670	80
M YMEM 05	80/100	25 BAR	EPDM MEMBRANE WITH TOP HOLE	710	80
M YMEM 06	100/150	25 BAR	EPDM MEMBRANE WITH TOP CAP	770	80
M YMEM 07	100/150	25 BAR	EPDM MEMBRANE WITH TOP HOLE	770	80
M YMEM 08	150/200	25 BAR	NARROW-NECK EPDM MEMBRANE	810	80
M YMEM 09	200/300	25 BAR	EPDM MEMBRANE	1000	148
M YMEM 10	500/750	25 BAR	EPDM MEMBRANE	1350	148
M YMEM 11	750/1000	25 BAR	EPDM MEMBRANE	1910	148
M YMEM 12	1000/1500	25 BAR	EPDM MEMBRANE	1950	200

SUPPLEMENTARY INFO

- Can be safely used in all tanks within the 6 - 10 - 16 - 25 bar classes at temperatures between 10°C and +99°C.
- Please pay attention to the tank volume, neck diameter, and membrane length when selecting a membrane.
- Our membranes are suitable for use in both expansion tanks and pressure booster tanks.

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industrial mechanical systems

“Boiler Water Heater Group”

Water Heater / Boiler
Accumulation Tanks
Floor Type Hot Water Heater


magna
AKKON


magna

13 BOILER / WATER HEATER

MAGNA DUOCLEAN BOILER

MAGNA DUOCLEAN BOILER

- All our products can be custom manufactured in full **stainless steel** or **galvanized steel** upon order.
- Electric and copper coil boilers are produced upon request for all our product lines.
- Please contact our sales department for high-pressure requirements and customized products.
- All models are equipped with a **thermometer**.
- All models feature **magnesium** and **anode** protection against corrosion.
- Enamel and thermoplastic coating options are available for all models.
- The coating raw materials used in our products are **WRAS** certified.
- Our products are manufactured with world-standard **Winnex** Jacketing and Soft Polyurethane.
- Sheet **metal insulation** and **polyurethane foam** coating can be applied upon request.

SPECIFICATIONS		M-DUO 100	M-DUO 160	M-DUO 200	M-DUO 300	M-DUO 400	M-DUO 500	M-DUO 600	M-DUO 800
Capacity	Litre	100	160	200	300	400	500	600	800
Inner Diameter	mm	400	490	490	550	600	600	600	750
Outer Diameter	mm	490	590	590	710	740	740	740	910
Height	mm	1080	1080	1250	1270	1450	1800	1970	2100
Package Dimensions	mm	500x500	590X590	590x590	710x710	740x740	740x740	740x740	910x910
Gross Weight	kg	73	91	109	123	156	194	222	261
Cold Water Heater Inlet	inch	3/4"	3/4"	3/4"	1"	1"	1"	1"	11/4"
Hot Water Heater Outlet	inch	3/4"	3/4"	3/4"	1"	1"	1"	1"	11/4"
Circulation	inch	3/4"	3/4"	3/4"	1"	1"	1"	1"	11/4"
Coil Hot Water Inlet Outlet	inch	1"	11/4"	11/4"	11/4"	11/4"	11/4"	11/4"	11/4"
Coil Surface Area	m^2	0,6	0.82	1.08	1.48	1.86	2.12	2.12	3.18
Anode Connection	inch	11/4"	11/4"	11/4"	11/4"	11/4"	11/4"	11/4"	11/4"
Electric Heater Connection	inch	11/2"	11/2"	11/2"	11/2"	11/2"	11/2"	11/2"	11/2"
Insulation Density	kg/m^3	45	45	45	45	45	45	18	18
Insulation Thickness	mm	50	50	50	50	50	50	80	80
Cleaning Flange Dimension	inch	4"	4"	4"	4"	4"	4"	4"	4"
Thermometer and Sensor	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Connection Dimension	inch								

SPECIFICATIONS		M-DUO 1000	M-DUO 1500	M-DUO 2000	M-DUO 2500	M-DUO 3000	M-DUO 4000	M-DUO 5000	M-DUO 6000
Capacity	Litre	1000	1500	2000	2500	3000	4000	5000	6000
Inner Diameter	mm	850	960	1100	1200	1200	1500	1500	1500
Outer Diameter	mm	1010	1120	1260	1380	1380	1660	1660	1660
Height	mm	2130	2300	2230	2200	2560	2480	2980	3500
Package Dimensions	mm	1010x1010	1120x1120	1260x1260	1380x1380	1380x1380	1660x1660	1660x1660	1660x1660
Gross Weight	kg	293	407	594	717	840	1200	1380	1600
Cold Water Heater Inlet	inch	11/4"	11/2"	11/2"	2"	2"	21/2"	21/2"	21/2"
Hot Water Heater Outlet	inch	11/4"	11/2"	11/2"	2"	2"	21/2"	21/2"	21/2"
Circulation	inch	11/4"	11/2"	11/2"	2"	2"	21/2"	21/2"	21/2"
Coil Hot Water Inlet Outlet	inch	11/4"	11/4"	11/4"	11/4"	11/4"	2"	2"	2"
Coil Surface Area	m^2	3.18	4.95	5.25	6.61	7.05	8.56	2.12	12.85
Anode Connection	inch	11/4"	11/4"	11/4"	11/4"	11/2"	11/2"	11/2"	11/2"
Electric Heater Connection	inch	11/2"	2"	2"	2"	2"	2"	2"	2"
Insulation Density	kg/m^3	18	18	18	18	18	18	18	18
Insulation Thickness	mm	80	80	80	80	80	80	80	80
Cleaning Flange Dimension	inch	4"	4"	5"	5"	5"	5"	5"	5"
Thermometer and Sensor	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Connection Dimension	inch								

ACCUMULATION TANK
MAGNA ACCUMULATION TANK

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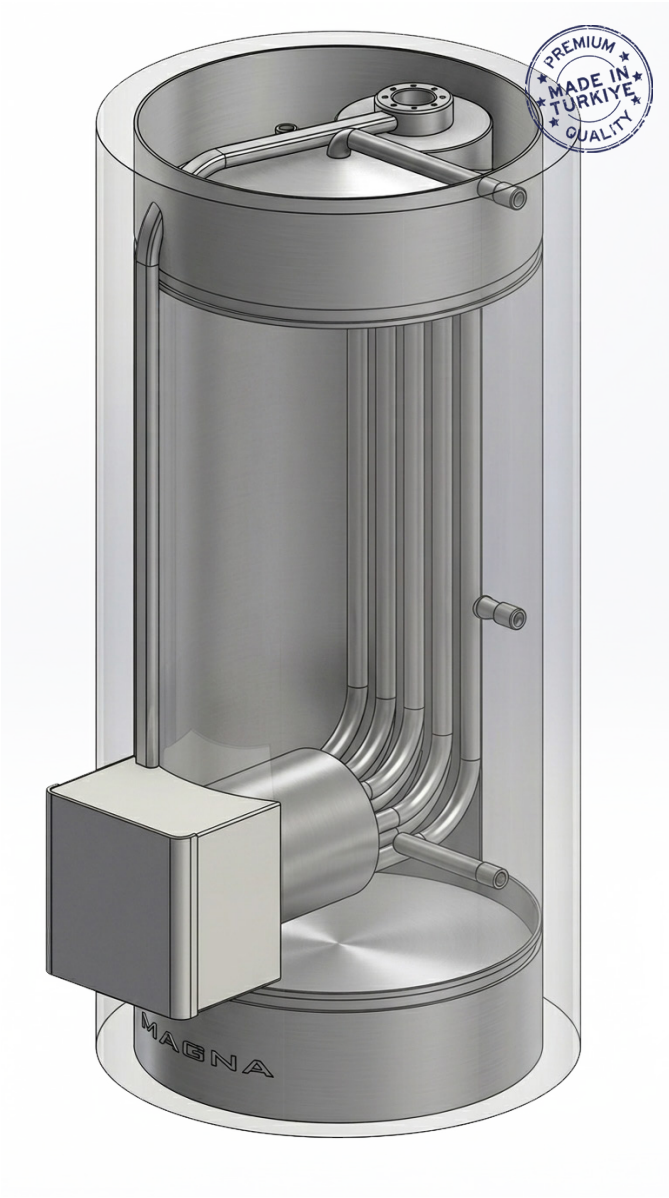
Continuous comfort.
Stores hot water for continuous use.

- All our products can be custom manufactured in full **stainless steel** or **galvanized steel** upon order.
- Please contact our sales department for high-pressure requirements and customized products.
- All models are equipped with a **thermometer**.
- All models feature magnesium and anode protection against corrosion.
- Enamel and thermoplastic coating options are available for all models.
- The coating raw materials used in our products are **WRAS** certified.
- Our products are manufactured with world-standard **Winnex** Jacketing and Soft Polyurethane.
- Sheet metal insulation and polyurethane foam coating can be applied upon request.

SPECIFICATIONS		M-AT 100	M-AT 160	M-AT 200	M-AT 300	M-AT 400	M-AT 500	M-AT 600	M-AT 800
Capacity	Litre	100	160	200	300	400	500	600	800
Inner Diameter	mm	400	490	490	550	600	600	600	750
Outer Diameter	mm	490	590	590	710	740	740	740	910
Height	mm	1080	1080	1250	1270	1450	1800	1970	2100
Package Dimensions	mm	500x500	590X590	590x590	710x710	740x740	740x740	740x740	910x910
Gross Weight	kg	73	91	109	123	156	194	222	261
Cold Water Heater Inlet	inch	3/4"	3/4"	3/4"	1"	1"	1"	1"	11/4"
Hot Water Heater Outlet	inch	3/4"	3/4"	3/4"	1"	1"	1"	1"	11/4"
Circulation	inch	3/4"	3/4"	3/4"	1"	1"	1"	1"	11/4"
Anode Connection	inch	11/4"	11/4"	11/4"	11/4"	11/4"	11/4"	11/4"	11/4"
Electric Heater Connection	kg/m³	11/2"	11/2"	11/2"	11/2"	11/2"	11/2"	11/2"	11/2"
Insulation Density	mm	45	45	45	45	45	45	18	18
Insulation Thickness	inch	50	50	50	50	50	50	80	80
Cleaning Flange Dimension	inch	4"	4"	4"	4"	4"	4"	4"	4"
Thermometer and Sensor	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

SPECIFICATIONS		M-DUO 1000	M-DUO 1500	M-DUO 2000	M-DUO 2500	M-DUO 3000	M-DUO 4000	M-DUO 5000	M-DUO 6000
Capacity	Litre	1000	1500	2000	2500	3000	4000	5000	6000
Inner Diameter	mm	850	960	1100	1200	1200	1500	1500	1500
Outer Diameter	mm	1010	1120	1260	1380	1380	1660	1660	1660
Height	mm	2130	2300	2230	2200	2560	2480	2980	3500
Package Dimensions	mm	1010x1010	1120x1120	1260x1260	1380x1380	1380x1380	1660x1660	1660x1660	1660x1660
Gross Weight	kg	293	407	594	717	840	1200	1380	1600
Cold Water Heater Inlet	inch	11/4"	11/2"	11/2"	2"	2"	21/2"	21/2"	21/2"
Hot Water Heater Outlet	inch	11/4"	11/2"	11/2"	2"	2"	21/2"	21/2"	21/2"
Circulation	m²	3.18	4.95	5.25	6.61	7.05	8.56	2.12	12.85
Anode Connection	inch	11/4"	11/4"	11/4"	11/4"	11/2"	11/2"	11/2"	11/2"
Electric Heater Connection	inch	11/2"	2"	2"	2"	2"	2"	2"	2"
Insulation Density	kg/m³	18	18	18	18	18	18	18	18
Insulation Thickness	mm	80	80	80	80	80	80	80	80
Cleaning Flange Dimension	inch	4"	4"	5"	5"	5"	5"	5"	5"
Thermometer and Sensor	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

15 FLOOR TYPE HOT WATER BOILER
NATURAL GAS - LPG



FLOOR TYPE GAS FIRED WATER HEATERS BALANCED & CONVENTIONAL FLUE

These units are floor-mounted water heating and storage systems designed specifically for applications requiring high-volume and continuous hot water, such as large detached houses, villas, or small-scale businesses. Thanks to their floor-standing configuration, they incorporate a large-capacity water tank (calorifier); they rapidly heat the water using natural gas or LPG and maintain the set temperature until the moment of use. The primary advantage over standard combi boilers is that instead of heating water instantaneously only when a tap is opened, they maintain an abundant supply of high-pressure, ready-to-use hot water within a large storage vessel.

Based on their technical design, they offer two different discharge and operating principles:

Room-Sealed (Hermetic) Models: These provide maximum safety by drawing the oxygen required for combustion from the outside via a dedicated fan and flue system and discharging exhaust gases back outdoors. They are the preferred choice for areas with limited ventilation.

Conventional Flue (Open Flue) Models: These draw combustion air from the room in which they are installed and discharge waste gases through a standard building chimney.

In summary, these systems are ideal high-capacity solutions for spaces where comfort is a priority and where multiple bathrooms or faucets must be used simultaneously without experiencing any drop in water temperature or flow.

SPECIFICATIONS

- Closed combustion chamber and room-sealed operation
- Fan-assisted flue gas system
- Enamel-lined and hygienic inner surface
- Magnesium anode protection
- Automatic electronic ignition and flame monitoring system
- Adjustable temperature and overheating thermostat
- Multigas stainless steel premix burner
- High efficiency - Class A
- Low fuel consumption
- High hot water production capacity
- Quiet operation
- Space-saving compact design
- Easy installation
- Natural Gas or LPG operation

High capacity, high reliability.

The ideal solution for high-demand applications such as hotels, apart-hotels, dormitories, sports facilities, car washes, Turkish baths, fitness centers, and construction sites.

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industrial mechanical systems

FLOOR TYPE HOT WATER BOILER
NATURAL GAS - LPG

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SPECIFICATIONS		OM800	OM1000	OM1500	OM2000	OM2500	OM3000	OM5000
Volume	Lt.	800	1000	1500	2000	2500	3000	5000
Nominal heat input	**kW**	28	28	36	50	72	100	150
Nominal heat output	kW	28	28	36	50	69	100	146
Efficiency	%	99%	99%	99%	99%	99%	99%	99%
Storage volume	lt	800	1000	1500	2000	2500	3000	5000
Empty weight	kg	260	310	430	630	786	865	1478
Filled weight	kg	1060	1310	1930	2630	3286	3865	6478
NOx flue gas emission	ppm	31	31	28	22	20	20	18
Sound power level	mg/kWh	50	50	45	38	35	35	32
Energy efficiency class	dB(A)	45	45	48	50	52	52	55
Hot water production - ΔT = 25°C	---	A	A	A	A	A	A	A
Hot water production - ΔT = 50°C	lt/h	1720	1720	2330	3326	6650	9346	14430
Reheating time - ΔT = 25°C	lt/h	860	870	1665	2435	3890	5502	8330
Reheating time - ΔT = 50°C	minute	7	11	9	12	11	12	10
Instantaneous flow rate - ΔT = 25°C *	minute	18	23	21	25	22	25	21
Instantaneous flow rate - ΔT = 50°C *	Lt	1926	2256	3155	4481	6650	9350	14360
Gas consumption (Natural Gas)	Lt	1315	1520	2154	3091	4651	6658	10895
Gas consumption (LPG)	m^3/h	2,9	2,9	3,75	5,21	7,19	10,42	15,12
Electrical requirement	kg/h	2,18	2,18	2,8	3,89	5,37	7,78	11,28
Compliant directives	V/Hz/w	230V/50Hz/50w	230V/50Hz/50w	230V/50Hz/50w	230V/50Hz/50w	230V/50Hz/50w	230V/50Hz/50w	230V/50Hz/50w
		EN 89 / Regulation (EU) 2016/426 Gas Appliances Regulation (GAR) 2014/35/EU Low Voltage Directive (LVD) 2014/30/EU Electromagnetic Compatibility Directive (EMC)						
Max operating pressure	kPa(bar)	900(9)	900(9)	900(9)	900(9)	900(9)	900(9)	900(9)
Natural gas operating pressure	mbar	21	21	21	21	21	21	21
LPG operating pressure	mbar	31	31	31	31	31	31	31

Calculated based on a storage water temperature of 70°C and a cold water inlet temperature of 10°C.

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“Separator Group”

Air Vessel
Hydraulic Balance Separator
Air Separator
Combined Balance Separator
Dirt Separator
Combined Air and Dirt Separator
Magnetic Filter
Steam Separator
Buffer Tank

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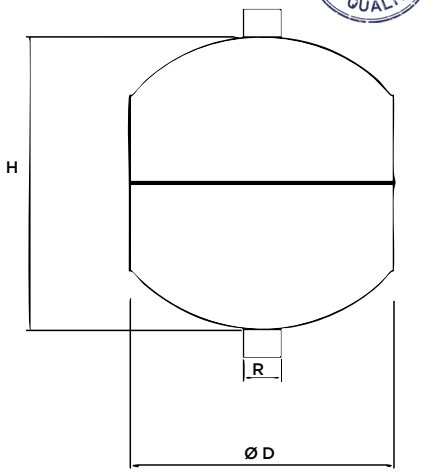
industrial mechanical systems

16 AIR VESSEL

CAPACITY : 3 LT - 50 LT

Stable pressure, efficient system.

Stores compressed air to ensure system stability and balance sudden consumption fluctuations.



PRODUCT CODE	VOLUME LT	DIAMETER Ø D	HEIGHT H	R
HT 01	3	168	150	1/2"
HT 02	5	219	160	1/2"
HT 03	10	219	280	1/2"
HT 04	15	219	400	1/2"
HT 05	18	219	500	1/2"
HT 06	20	219	550	1/2"
HT 07	30	323	460	1/2"
HT 08	40	400	320	1/2"
HT 09	50	400	400	1/2"

SUPPLEMENTARY INFO

- **MAXIMUM OPERATING TEMPERATURE:** 90°C
- **MAXIMUM OPERATING PRESSURE:** 10 BAR
- **BODY MATERIAL:** Welded and Carbon Steel ST-37.2
- **CONNECTION:** 1/2" Internal Thread
- **FINISH / PAINT:** Electrostatic Powder Coating
- Custom production is available in different sizes, materials, and diameters upon request.

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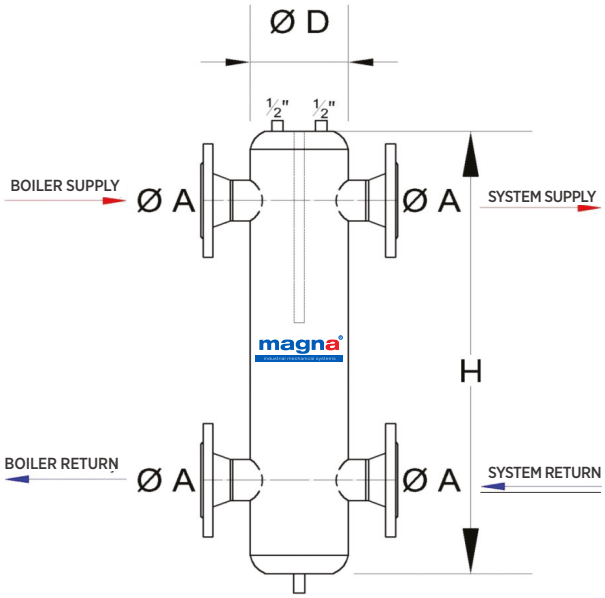
HYDRAULIC SEPARATOR

CAPACITY : DN 25 - DN 300

17



Balanced flow, maximum efficiency.

Provides flow and pressure balance in piping systems for efficient and stable operation.

PRODUCT CODE	CONNECTION DIAMETER Ø A (DN)	HYDRAULIC SEPARATOR DIAMETER Ø D (DN)	LENGTH (H mm)	WATER VOLUME M^3/h	CAPACITY KW
MDK 1	25	65	325	1	20
MDK 2	32	65	325	1.7	29
MDK 3	40	80	400	2.5	43
MDK 4	50	100	500	4	70
MDK 5	65	150	750	8	140
MDK 6	80	200	1000	12	210
MDK 7	100	200	1000	20	350
MDK 8	125	250	1200	32	550
MDK 9	150	300	1400	52	900
MDK 10	200	400	1900	100	1750
MDK 11	250	500	2200	185	3250
MDK 12	300	600	2500	300	5250

SUPPLEMENTARY INFO

- **MAXIMUM OPERATING TEMPERATURE:** 110°C
- **MAXIMUM OPERATING PRESSURE:** 10 BAR
- **BODY MATERIAL:** Welded and Carbon Steel ST-37.2, Partition sheet metal stainless steel
- **CONNECTION:** Welded, Threaded, Flanged
- **FINISH / PAINT:** Electrostatic Powder Coating
- Custom production is available in different sizes, materials, and diameters upon request.

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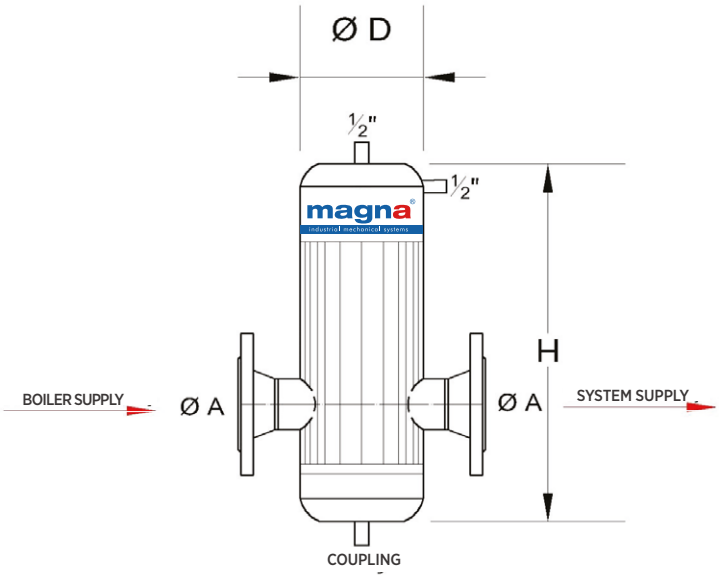
18 AIR SEPARATOR

CAPACITY : DN 25 - DN 300



PRODUCT CODE	CONNECTION DIAMETER Ø A (DN)	BODY Ø D (DN)	LENGTH (H mm)
MHA 1	25	65	250
MHA 2	32	65	250
MHA 3	40	80	280
MHA 4	50	100	350
MHA 5	65	150	350
MHA 6	80	200	500
MHA 7	100	200	500
MHA 8	125	250	600
MHA 9	150	300	600
MHA 10	200	400	700
MHA 11	250	500	800
MHA 12	300	600	1080

Efficiency starts with proper air management.

Removes air to improve efficiency and reduce corrosion.

SUPPLEMENTARY INFO

- **MAXIMUM OPERATING TEMPERATURE:** 110°C
- **MAXIMUM OPERATING PRESSURE:** 10 BAR
- **BODY MATERIAL:** Welded and Carbon Steel ST-37.2, Partition sheet metal stainless steel
- **CONNECTION:** Welded, Threaded, Flanged
- **FINISH / PAINT:** Electrostatic Powder Coating
- Custom production is available in different sizes, materials, and diameters upon request.

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COMBINED HYDRAULIC SEPARATOR

CAPACITY : DN 25 - DN 300

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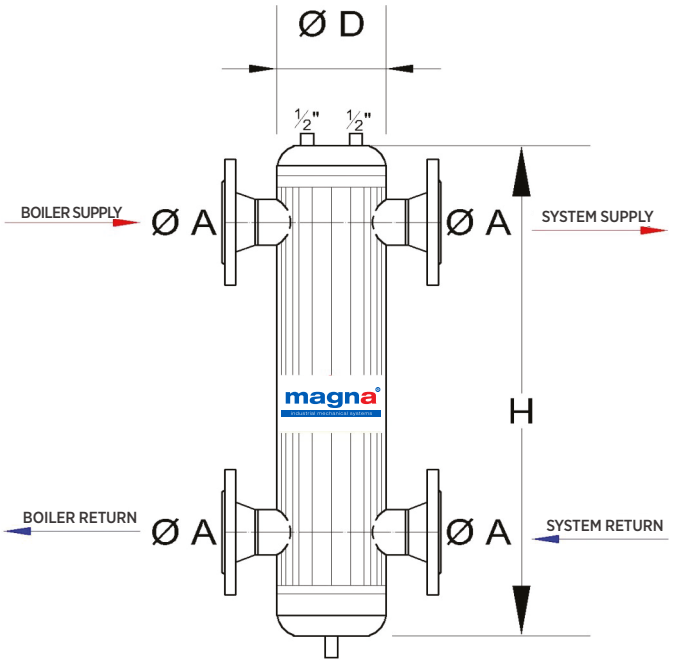

PRODUCT CODE	CONNECTION DIAMETER Ø A (DN)	HYDRAULIC SEPARATOR DIAMETERI Ø D (DN)	LENGTH (H mm)	WATER VOLUME M^3/h	CAPACITY KW
MPDK 1	25	65	325	1	20
MPDK 2	32	65	325	1.7	29
MPDK 3	40	80	400	2.5	43
MPDK 4	50	100	500	4	70
MPDK 5	65	150	750	8	140
MPDK 6	80	200	1000	12	210
MPDK 7	100	200	1000	20	350
MPDK 8	125	250	1200	32	550
MPDK 9	150	300	1400	52	900
MPDK 10	200	400	1900	100	1750
MPDK 11	250	500	2200	185	3250
MPDK 12	300	600	2500	300	5250

SUPPLEMENTARY INFO

- **MAXIMUM OPERATING TEMPERATURE:** 110°C
- **MAXIMUM OPERATING PRESSURE:** 10 BAR
- **BODY MATERIAL:** Welded and Carbon Steel ST-37.2, Partition sheet metal stainless steel
- **CONNECTION:** Welded, Threaded, Flanged
- **FINISH / PAINT:** Electrostatic Powder Coating
- Custom production is available in different sizes, materials, and diameters upon request.

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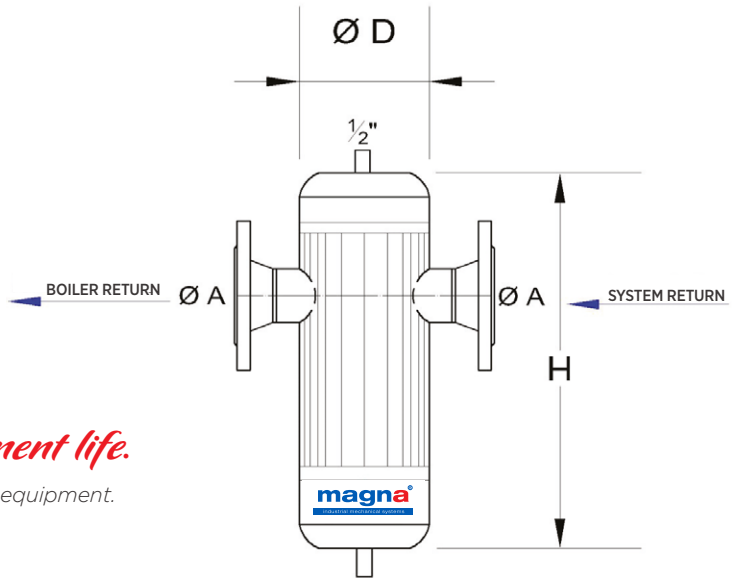
20 DIRT SEPARATOR

CAPACITY : DN 25 - DN 300



Clean system, longer equipment life.

Filters dirt to protect equipment.

PRODUCT CODE	CONNECTION DIAMETER Ø A (DN)	BODY Ø D (DN)	LENGTH (H mm)
MTA 1	25	65	250
MTA 2	32	65	250
MTA 3	40	80	280
MTA 4	50	100	350
MTA 5	65	150	350
MTA 6	80	200	500
MTA 7	100	200	500
MTA 8	125	250	600
MTA 9	150	300	600
MTA 10	200	400	700
MTA 11	250	500	800
MTA 12	300	600	1080

SUPPLEMENTARY INFO

- **MAXIMUM OPERATING TEMPERATURE:** 110°C
- **MAXIMUM OPERATING PRESSURE:** 10 BAR
- **BODY MATERIAL:** Welded and Carbon Steel ST-37.2, Partition sheet metal stainless steel
- **CONNECTION:** Welded, Threaded, Flanged
- **FINISH / PAINT:** Electrostatic Powder Coating
- Custom production is available in different sizes, materials, and diameters upon request.

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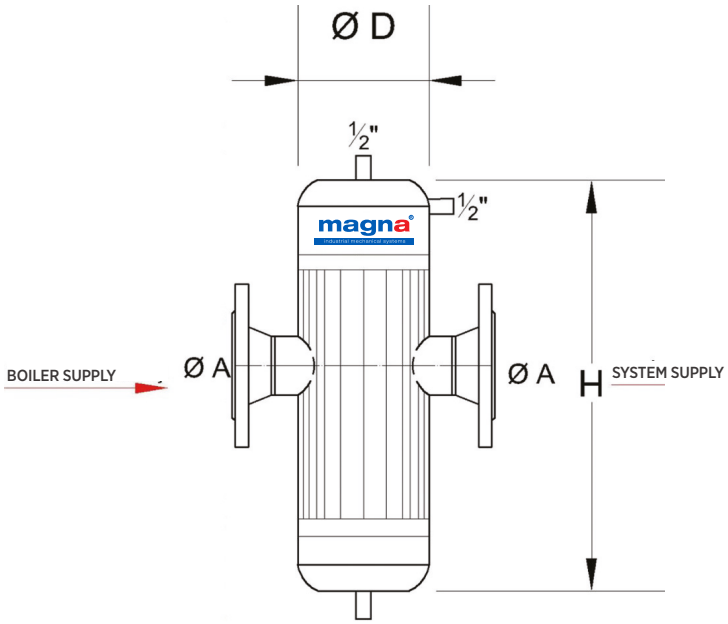
COMBINED AIR AND DIRT SEPARATOR

CAPACITY : DN 25 - DN 300

21



PRODUCT CODE	CONNECTION DIAMETER Ø A (DN)	BODY Ø D (DN)	LENGTH (H mm)
MPTHA 1	25	65	250
MPTHA 2	32	65	250
MPTHA 3	40	80	280
MPTHA 4	50	100	350
MPTHA 5	65	150	350
MPTHA 6	80	200	500
MPTHA 7	100	200	500
MPTHA 8	125	250	600
MPTHA 9	150	300	600
MPTHA 10	200	400	700
MPTHA 11	250	500	800
MPTHA 12	300	600	1080

SUPPLEMENTARY INFO

- **MAXIMUM OPERATING TEMPERATURE:** 110°C
- **MAXIMUM OPERATING PRESSURE:** 10 BAR
- **BODY MATERIAL:** Welded and Carbon Steel ST-37.2, Partition sheet metal stainless steel
- **CONNECTION:** Welded, Threaded, Flanged
- **FINISH / PAINT:** Electrostatic Powder Coating
- Custom production is available in different sizes, materials, and diameters upon request.

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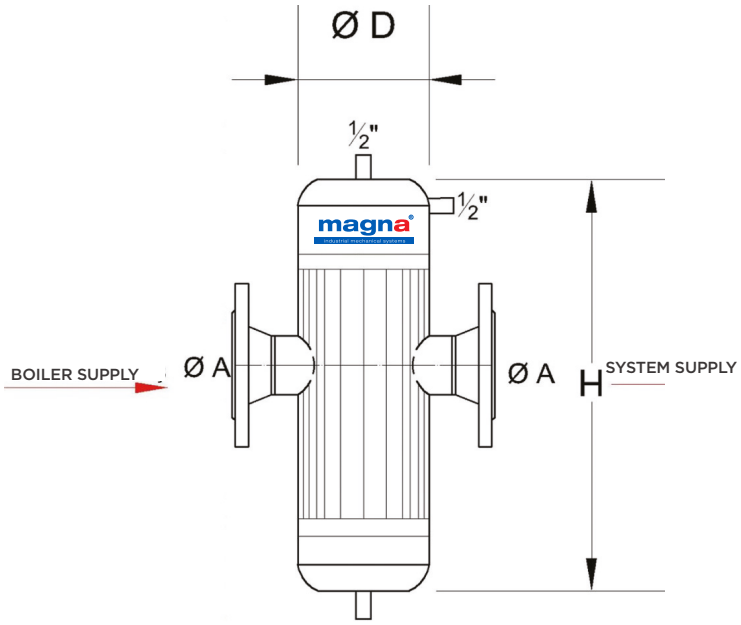
22 MAGNETIC FILTER

CAPACITY : DN 25 - DN 300



PRODUCT CODE	CONNECTION DIAMETER Ø A (DN)	BODY Ø D (DN)	LENGTH (H mm)
MMF 1	25	65	300
MMF 2	32	65	310
MMF 3	40	80	310
MMF 4	50	100	320
MMF 5	65	150	420
MMF 6	80	200	490
MMF 7	100	200	490
MMF 8	125	250	630
MMF 9	150	300	680
MMF 10	200	400	840
MMF 11	250	500	1030
MMF 12	300	600	1320

Captures invisible particles to protect the system.

Captures metal particles magnetically, ensuring system cleanliness and extending equipment life.

SUPPLEMENTARY INFO

- **MAXIMUM OPERATING TEMPERATURE:** 110°C
- **MAXIMUM OPERATING PRESSURE:** 10 BAR
- **BODY MATERIAL:** Welded and Carbon Steel ST-37.2
- CONNECTION: Welded, Flanged
- FINISH / PAINT: Electrostatic Powder Coating
- Custom production is available in different sizes, materials, and diameters upon request.

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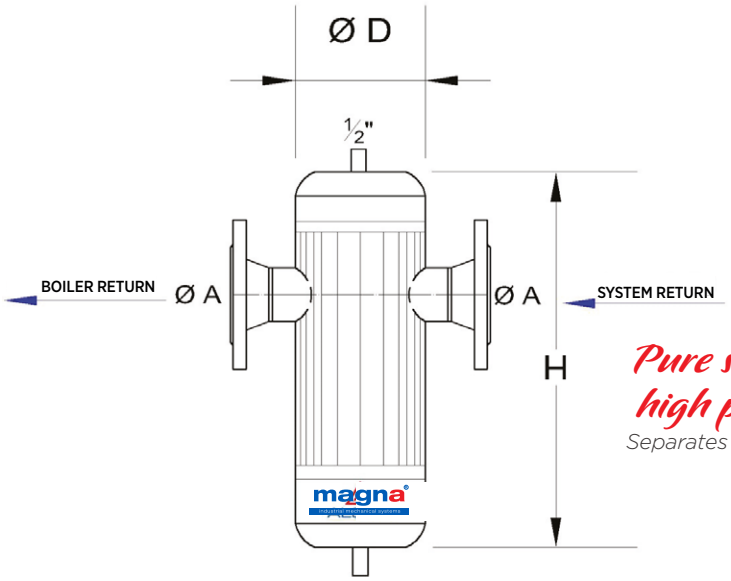
STEAM SEPARATOR

CAPACITY : DN 25 - DN 300

23



Pure steam, high performance.

Separates moisture to provide dry steam.

PRODUCT CODE	CONNECTION DIAMETER Ø A (DN)	BODY Ø D (DN)	LENGTH (H mm)
MBS 1	25	100	400
MBS 2	32	125	450
MBS 3	40	125	450
MBS 4	50	150	500
MBS 5	65	150	650
MBS 6	80	200	725
MBS 7	100	200	850
MBS 8	125	250	1000
MBS 9	150	300	1150
MBS 10	200	400	1250
MBS 11	250	500	1600
MBS 12	300	600	1760

SUPPLEMENTARY INFO

- **MAXIMUM OPERATING TEMPERATURE:** 260°C
- **MAXIMUM OPERATING PRESSURE:** 16 BAR
- **BODY MATERIAL:** Welded and Carbon Steel ST-37.2
- **CONNECTION:** Welded, Threaded, Flanged
- **FINISH / PAINT:** Electrostatic Powder Coating
- Custom production is available in different sizes, materials, and diameters upon request.

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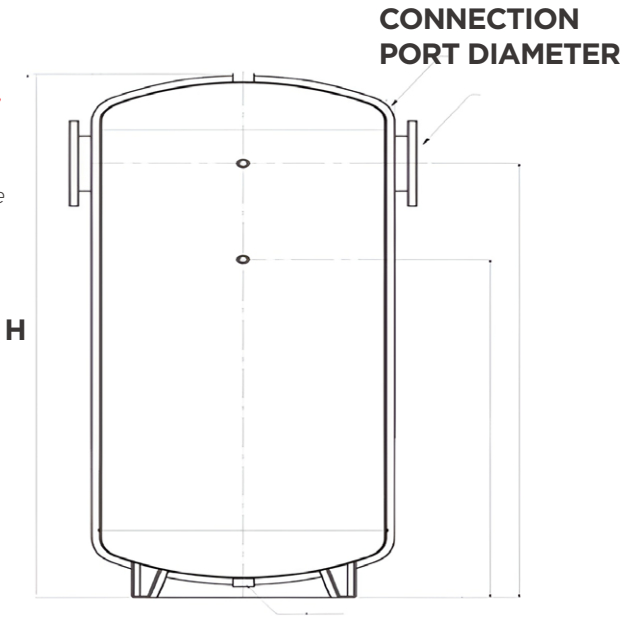
24 BUFFER TANK

CAPACITY : 100 LT - 5.000 LT

Balance is the foundation of performance.

Stores thermal energy and stabilizes the system.



PRODUCT CODE	NUMBER OF BAFFLES	VOLUME LT	Ø D MM	H MM	CONNECTION PORT DIAMETER			EMPTY WEIGHT KG
MBFT 1	1	100	500	1050	DN32	1/2"	3/4"	60
MBFT 2	1	300	700	1350	DN50	1/2"	3/4"	105
MBFT 3	1	500	850	1450	DN65	1/2"	1"	180
MBFT 4	1	750	850	2050	DN80	1/2"	1"	230
MBFT 5	2	1000	950	2110	DN100	3/4"	1 1/4"	310
MBFT 6	2	1500	1150	2000	DN125	3/4"	1 1/2"	480
MBFT 7	2	2000	1250	2350	DN125	3/4"	1 1/2"	580
MBFT 8	2	2500	1400	2350	DN150	3/4"	2"	670
MBFT 9	3	3000	1400	2770	DN150	3/4"	2"	850
MBFT 10	3	4000	1500	3150	DN200	3/4"	2"	1120
MBFT 11	3	5000	1600	3070	DN200	3/4"	2"	1410

SUPPLEMENTARY INFO

- **MAXIMUM OPERATING TEMPERATURE:** 260°C
- **MAXIMUM OPERATING PRESSURE:** 16 BAR
- **BODY MATERIAL:** Welded and Carbon Steel ST-37.2, Partition sheet metal stainless steel
- Our tanks are **CE certified** in accordance with the **2014/68/EU** Pressure Equipment Directive.
- It is manufactured in different sizes, materials, and diameters upon request.

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NEUTRALIZATION TANK

CAPACITY : 250 KW - 4.000 KW

25

Balance ensures protection.

Neutralizes condensate to prevent corrosion.

Condensation occurring during combustion and the cooling of flue gases causes pH levels to drop, leading to the formation of acidic condensate. While **acidic condensate** causes significant environmental issues, it also has a corrosive effect on the **economizer** and the **boiler**. The neutralization unit prevents these problems by neutralizing the pH value.

PRODUCT CODE	CAPACITY KW	FLOW RATE L/H	LENGTH MM	WIDTH MM	HEIGHT MM	CONNECTION DIAMETER
M NU 1	250	32	400	300	235	3/4”
M NU 2	350	40	400	300	235	3/4”
M NU 3	500	60	400	300	235	3/4”
M NU 4	750	90	600	400	235	3/4”
M NU 5	1000	120	600	400	235	3/4”
M NU 6	1500	180	600	400	335	2”
M NU 7	2000	240	800	600	335	1”
M NU 8	3000	260	800	600	400	1”
M NU 9	4000	480	800	600	400	1”

SUPPLEMENTARY INFO

- The tank material is **HDPE**.
- The filter sand is 3-5 mm quartz sand.
- The plumbing connection material is brass.

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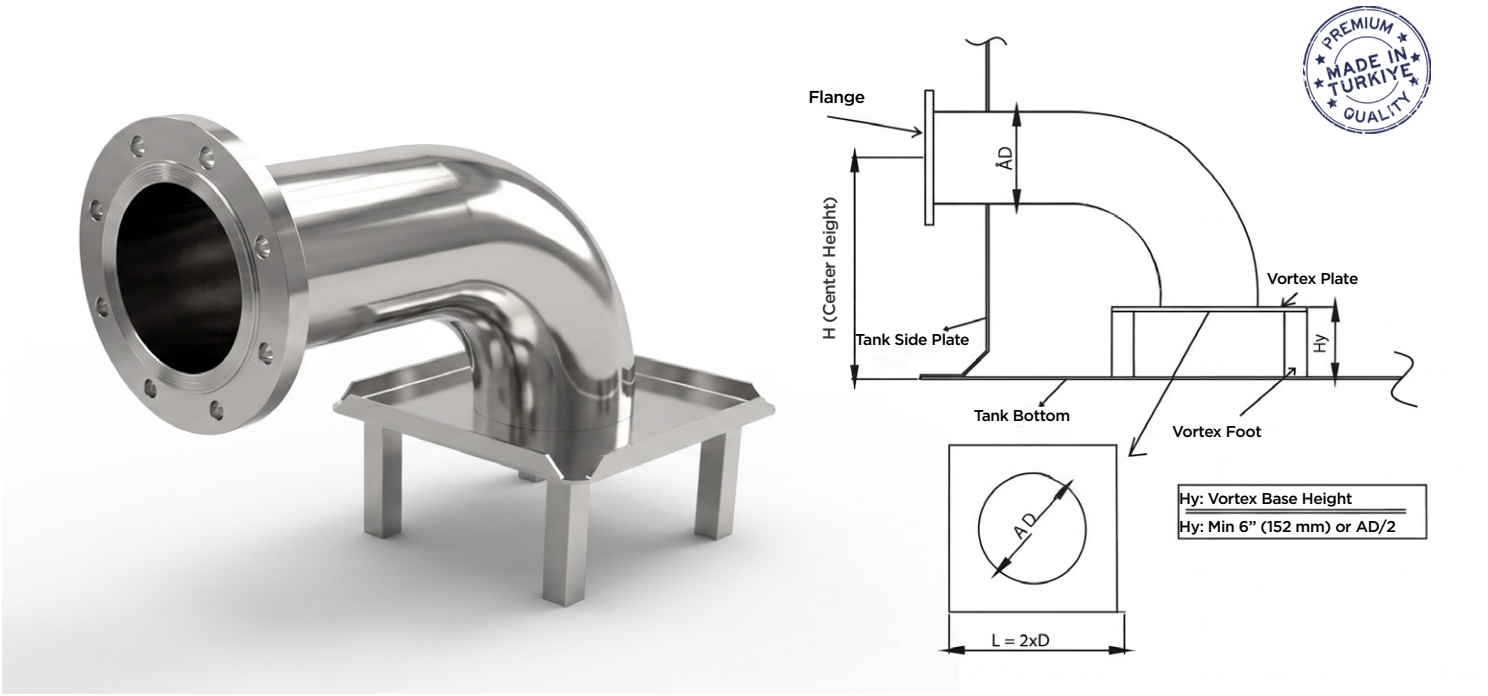
26 VORTEX PLATE



Ø D DIAMETER	INCH	BODY WITH LEGS L= 2D MM	FOOT LENGTH HY MM	LENGTH H MM
DN 40	11/2"	100	152	210
DN 50	2"	130	152	240
DN 65	2 1/2"	160	152	250
DN 80	3"	180	152	270
DN 100	4"	230	152	310
DN 125	5"	280	152	350
DN 150	6"	340	152	390
DN 200	8"	440	152	460
DN 250	10"	550	152	540
DN 300	12"	650	152	630

Control the flow, strengthen the system.

Controls fluid flow.

SUPPLEMENTARY INFO

- **MAXIMUM OPERATING TEMPERATURE:** 120°C
- **MAXIMUM OPERATING PRESSURE:** 10 BAR
- **BODY MATERIAL:** Welded and Carbon Steel ST-37.2
- **CONNECTION:** Welded, Flanged
- **FINISH / PAINT:** Electrostatic Powder Coating
- Custom production is available in different sizes, materials, and diameters upon request.

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