



**PRESSURE VESSELS  
GENERAL CATALOGUE**

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**EKIN ENDÜSTRİYEL**  
Isıtma-Soğutma San. Tic. Ltd. Şti.





## Sustainable Innovation, Quality Standardization and Dynamism

Ekin Endüstriyel, which has entered Turkish heating sector by exporting of plated heat exchangers, is known with customer focused vision and dynamism. Ekin has expanded into new and upcoming investments. One of the main steps was gaining the identity of being a producer. Ekin has started the production of plate heat exchangers with the brand of "MIT". We have grown in the philosophy of quality, through initially adapting to ISO Quality Management.

MIT plate heat exchangers have become a solution for engineering problems in the world market and have grown through an expansion of franchises.

## Engineering Approaches, Integrated Solutions

Ekin has expanded into the production of components, sales, and after-sales service by employing expert engineers. The factors that guided Ekin to success are their exceptional customer service to the needs and wants of consumers, modern facilities, and becoming partners to projects that involve high-end technology.

Ekin is an expert company which has a wide product range which includes plate heat exchangers, accumulation tanks, water heater tanks, installation, and its service group and submit competitive advantages to mechanical installation sector in Turkey and all around the world.



# APPLICATION FIELDS



## HEAT TRANSFER PRODUCTS

- Gasketed Plate Heat Exchangers • Brazed Heat Exchangers • Shell&Tube Heat Exchangers • Air Fan Oil Cooler • Economizers • Coils and Radiators



## PRESSURE VESSELS

- Water Heater Tanks • Water Storage Tanks • Buffer Tanks • Expansion Tanks • Stainless Steel Process Tanks • Balance Tanks / Dirt Separators / Air Separators • Pressured Air Tanks • Neutralization Tanks • Air Tubes • Steel IBC Tanks with ADR



## COMPLETE SYSTEMS UNITS

- Heat Stations • Steam Package Systems • Special Designed Systems • Dosing Systems • Substations • Thermoregulators



## FOOD GRADE SYSTEMS

- Pasteurizers with plate heat exchangers • Hygienic Pasteurizers with Shell & Tube Heat Exchangers • Cheese and whey Systems • UHT – Sterilization Systems • CIP Systems • Hygienic Storage and Process Tanks • Homogenizers • Standartization Systems • Evaporators • Turn-key Projects



## FLUID TRANSFER PRODUCTS

- Lobe Pumps • Hygienic Centrifuge Pumps • Turbo / Roots / Centrifuge Blowers • Drum Pumps • Acid Pumps • Dosing Pumps • Monopumps • Air operated Double Diaphragm Pumps (AODD)



## VALVES

- Thermoplastic Valves • Plastomatic Valves



## ENERGY SYSTEMS

- Solar Collectors • Water Heater Tanks for Solar



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Buffer Tank



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Air Tank



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Expansion Tank







**WATER HEATER  
TANKS  
ACCUMULATION  
TANKS  
BUFFER TANKS**

## MIT PRESSURE VESSELS



MIT, one of the most known and preferred brands of Turkey, has been continuing to create new ideas and developments to improve plate heat exchanger sector.

Ekin aims to develop its product range and the most concrete proof of this determination are MIT accumulation tanks and boilers.





Accumulation tanks are used for the hygienic storage of conditioned water in heating and cooling systems. It is usually mounted behind a heat exchanger (plate heat exchanger, tubular heat exchanger, water heater tanks, chiller, fancoil etc.). Insulation materials with low heat loss are used in all products.

MIT series single-serpentine and double-serpentine water heater tanks provide both economical and hygienic domestic hot water with heat energy from single and double heat source (hot water boiler, steam water heater tanks, solar panels, heat pump, geothermal energy etc.). In addition, since the serpentine can reach to the lower points, the formation of the legionnaire bacteria is prevented.

MIT series electric hot water producers (electric boilers) provide comfortable, hygienic hot water production in processes that have difficulty in supplying heater fluid or in places where they prefer to meet the need for electricity and hot water. Depending on the need, different capacities are made of stainless steel tubular electrical resistors.

**Usage Areas:** Accumulation tanks are used in villas, apartments, hospitals, gyms, factories, construction sites, chillers, central heating systems for various processes, cascade system boiler rooms and heat exchanger apartments.



## MIT SINGLE SERPANTINE WATER HEATER TANKS (WHITE SERIES)

The single serpentine water heater tank is used to obtain hot water in single heat source systems (solid / liquid /gas fired boiler or solar energy).

<b>Volume</b>	100 lt – 3000 lt
<b>Capacity</b>	5 kW – 237 kW
<b>Maximum Working Temperature</b>	95 °C
<b>Body Pressure</b>	10 Bar
<b>Interior Surface Coating</b>	Glasslined enamel is applied according to DIN 4753-3 standard.
<b>Insulation</b> 100L-500L 800L-1000L 800L-3000L 800L-3000L	Complies with EN 15332 Energy Efficiency Standard 42 kg/m <sup>3</sup> HCFC free water based hard polyurethane 42 kg/m <sup>3</sup> HCFC free water based hard polyurethane (Optional) 18 kg/m <sup>3</sup> Soft polyurethane 26 kg/m <sup>3</sup> Flame retardant soft polyurethane (Optional)
<b>Outer Sheath Coating</b> 160L-500L 800L-3000L	Electrostatic Powder Coated Sheet / Vinyl Artificial Leather Vinyl Artificial Leather
<b>Thermometer</b>	0 °C – 120 °C
<b>Cleaning Flange</b>	All types of cleaning and inspection cover are available.
<b>Electric Heater</b>	An optional electric heater is available.
<b>Cathodic Protection Element</b>	Magnesium Anode according to DIN 4753-3 standard (Optional electronic anode application).

Capacity (lt)	Heater Fluid Temperature	Heating Capacity (lt/h) 10 °C - 60 °C	Heating Capacity (lt/h) 10 °C - 45 °C
100	90-70 °C	280	529
	80-60 °C	178	357
160	90-70 °C	400	714
	80-60 °C	238	477
200	90-70 °C	620	1114
	80-60 °C	380	763
300	90-70 °C	620	1114
	80-60 °C	380	763
500	90-70 °C	1080	1857
	80-60 °C	680	1315
800	90-70 °C	1560	2729
	80-60 °C	1020	1915
1000	90-70 °C	1560	2729
	80-60 °C	1020	1915
1500	90-70 °C	2000	3486
	80-60 °C	1300	2458
2000	90-70 °C	2580	4429
	80-60 °C	1680	3143
2500	90-70 °C	3361	5801
	80-60 °C	2200	4115
3000	90-70 °C	3881	6687
	80-60 °C	2560	4744
4000	90-70 °C	4120	6870
	80-60 °C	3020	5220
5000	90-70 °C	5430	8750
	80-60 °C	4230	6600

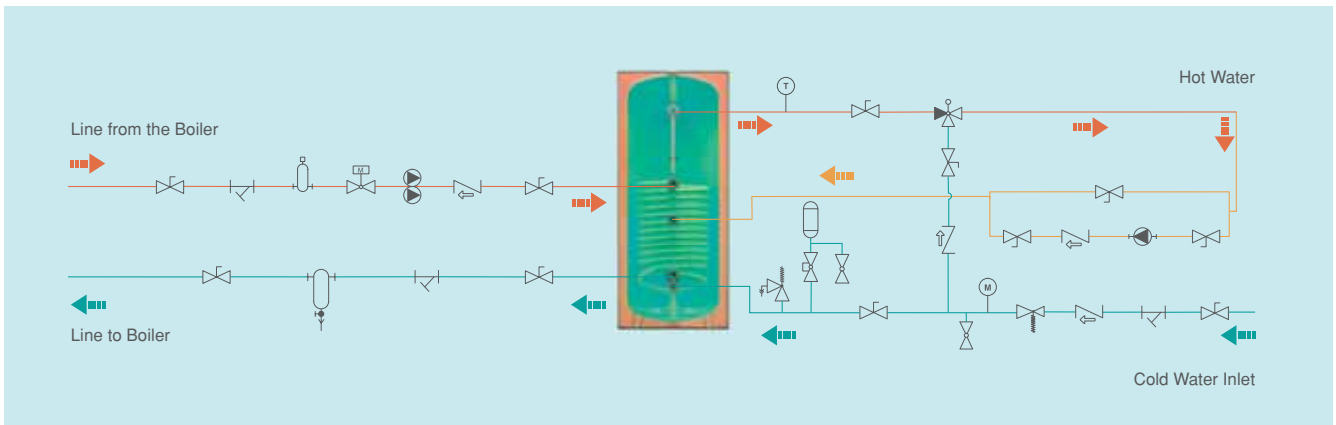


Depending on customer requirements, all capacities can be made with polyurethane insulation and electrostatic powder coating on galvanized steel sheet.



	Unit	MIT 101	MIT 161	MIT 201	MIT 301	MIT 501	MIT 801	MIT 1001	MIT 1501	MIT 2001	MIT 2501	MIT 3001
Volume	lt	100	160	200	300	500	800	1000	1500	2000	2500	3000
Diameter	mm	490	590	590	700	750	900	1000	1120	1260	1460	1460
Height	mm	1080	1125	1320	1210	1800	2100	2070	2300	2230	2200	2560
Electric Heater Connection	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	2"	2"
Cleaning & Control Flange	inch	4"	4"	4"	4"	4"	5"	5"	5"	5"	5"	5"
Cold Water Inlet & Hot Water Inlet	inch	3/4"	3/4"	3/4"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
Circulation Return	inch	3/4"	3/4"	3/4"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
Serpentine Inlet / Outlet	inch	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
Insulation Type & Thickness	mm	PU/50	PU/50	PU/50	PU/50	PU/50	PU/80	PU/80	PU/80	PU/80	PU/80	PU/80
Gross Weight	kg	69	91	109	123	194	261	283	380	594	717	840
Rollover Measure	mm	1205	1290	1465	1420	1970	2305	2320	2580	2580	2660	3020
Magnesium Anode Connection Dimensions	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Thermometer & Sensor Connection Sizes	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

### Single Serpentine Water Heater Tank Connection Diagram



## MIT DOUBLE SERPANTINES WATER HEATER TANK (WHITE SERIES)

The double coil water heater tank is used to obtain hot water in two heat source systems (solid, liquid, gas fired boiler, solar energy, waste energy).

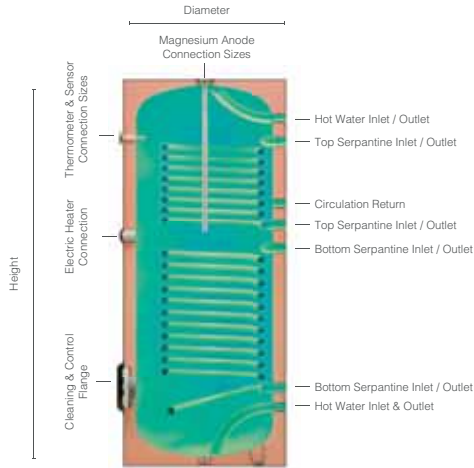
<b>Volume</b>	160 lt – 3000 lt
<b>Capacity</b>	4,2 kW - 172,5 kW (Only the upper serpentine value is given.)
<b>Maximum Operating Temperature</b>	95 °C
<b>Body Pressure</b>	10 Bar
<b>Interior Surface Coating</b>	Glasslined enamel is applied according to DIN 4753-3 standard.
<b>Insulation</b>	Complies with EN 15332 Energy Efficiency Standard 160L-500L 42 kg/m <sup>3</sup> HCFC free water based hard polyurethane 800L-1000L 42 kg/m <sup>3</sup> HCFC free water based hard polyurethane (Optional) 800L-3000L 18 kg/m <sup>3</sup> Soft polyurethane 800L-3000L 26 kg/m <sup>3</sup> Flame retardant soft polyurethane (Optional)
<b>Outer Sheath Coating</b>	Electrostatic Powder Coated Sheet / Vinyl Artificial Leather 160L-500L Vinyl Artificial Leather 800L-3000L
<b>Thermometer</b>	0 °C – 120 °C
<b>Cleaning Flange</b>	All types of cleaning and inspection cover are available.
<b>Electric Heater</b>	An optional electric heater is available.
<b>Cathodic Protection Element</b>	Magnesium Anode according to DIN 4753-3 standard (Optional electronic anode application.).

Capacity (lt)	Heater Fluid Temperature	Heating Capacity (Top+Bottom) (lt/h) 10 °C - 60 °C	Heating Capacity (Top+Bottom) (lt/h) 10 °C - 45 °C
160	90-70 °C	432	797
	80-60 °C	238	508
200	90-70 °C	568	1032
	80-60 °C	328	683
300	90-70 °C	568	1032
	80-60 °C	328	683
500	90-70 °C	1708	2971
	80-60 °C	1068	2078
800	90-70 °C	2260	3978
	80-60 °C	1460	2772
1000	90-70 °C	2260	3978
	80-60 °C	1460	2772
1500	90-70 °C	2700	4735
	80-60 °C	1740	3315
2000	90-70 °C	3750	6475
	80-60 °C	2430	4572
2500	90-70 °C	4801	8287
	80-60 °C	3120	5864
3000	90-70 °C	5696	9773
	80-60 °C	3710	6916
4000	90-70 °C	2100	4250
	80-60 °C	1230	3210
5000	90-70 °C	3050	4800
	80-60 °C	1730	4010



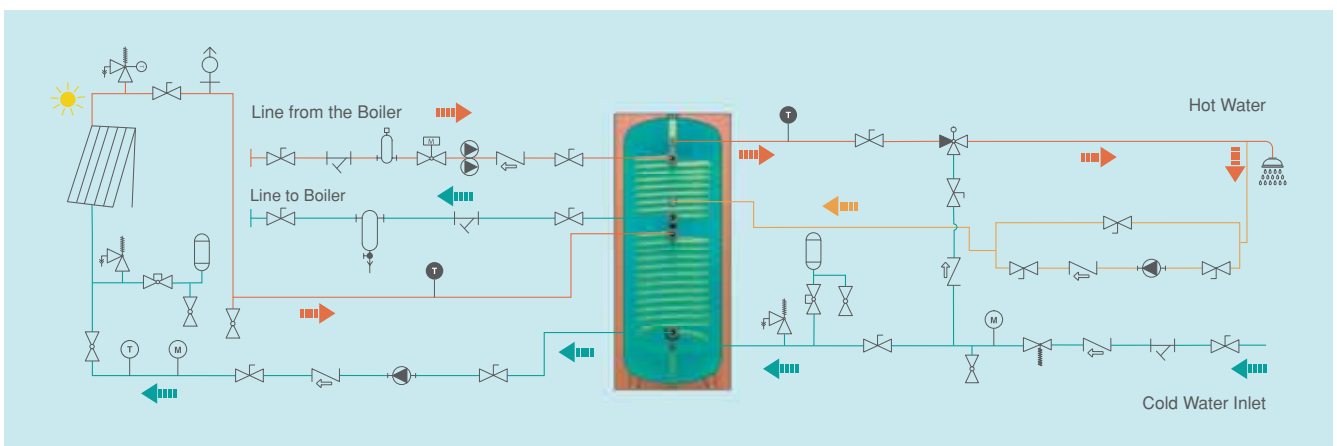
Depending on customer requirements, all capacities can be made with polyurethane insulation and electrostatic powder coating on galvanized steel sheet.





	Unit	MIT 162	MIT 202	MIT 302	MIT 502	MIT 802	MIT 1002	MIT 1502	MIT 2002	MIT 2502	MIT 3002
Volume	lt	160	200	300	500	800	1000	1500	2000	2500	3000
Diameter	mm	590	590	700	750	900	1000	1120	1260	1460	1460
Height	mm	1125	1320	1210	1800	2100	2070	2300	2230	2200	2560
Electric Heater Connection	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	2"	2"
Cleaning & Control Flange	inch	4"	4"	4"	4"	5"	5"	5"	5"	5"	5"
Hot Water Inlet and Outlet	inch	3/4"	3/4"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
Circulation Return	inch	3/4"	3/4"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
Top Serpentine Inlet / Outlet	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
Bottom Serpentine Inlet / Outlet	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
Insulation Type & Thickness	mm	PU/50	PU/50	PU/50	PU/50	PU/80	PU/80	PU/80	PU/80	PU/80	PU/80
Gross Weight	kg	95	112	132	223	290	318	417	640	812	925
Rollover Measure	mm	1290	1465	1420	1970	2305	2320	2580	2580	2660	3020
Magnesium Anode Connection Dimensions	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Thermometer & Sensor Connection Sizes	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

## Double Serpantines Water Heater Tank Connection Diagram





## MIT WATER HEATER TANKS WITH ELECTRICAL RESISTANCE (WHITE SERIES)

Electrical water heater tank is used to meet the hot water requirement by using electric energy in places without fluid source.

<b>Volume</b>	100 lt – 5000 lt
<b>Capacity</b>	2 kW – 60 kW (For capacities above 60 kW, please contact us.)
<b>Maximum Working Temperature</b>	95 °C
<b>Body Pressure</b>	10 Bar
<b>Interior Surface Coating</b>	Glasslined enamel is applied according to DIN 4753-3 standard.
<b>Insulation</b> 100L-500L 800L-1000L 800L-5000L	Complies with EN 15332 Energy Efficiency Standard 42 kg/m <sup>3</sup> HCFC free water based hard polyurethane 18 kg/m <sup>3</sup> Soft polyurethane 26 kg/m <sup>3</sup> Flame retardant soft polyurethane (Optional)
<b>Outer Sheath Coating</b> 100L-500L 800L-5000L	Electrostatic Powder Coated Sheet / Vinyl Artificial Leather Vinyl Artificial Leather
<b>Thermometer</b>	0 °C – 120 °C
<b>Cleaning Flange</b>	All types of cleaning and inspection cover are available.
<b>Electric Heater</b>	An optional electric heater is available. (2 - 60 kW)
<b>Leakage Relay</b>	It is possible to install residual current relay as an option.
<b>Cathodic Protection Element</b>	Magnesium Anode according to DIN 4753-3 standard (Optional electronic anode application)

Capacity (lt)	Power (kW)	Hot Water Capacity (lt/h) 10 °C - 45 °C
100	1x3	98
160	2x3	147
200	2x7,5	196
300	2x7,5	345
500	2x10	491
800	2x15	740
1000	3x15	1105
1500	4x15	1475
2000	5x15	1850
2500	7x15	2580
3000	7x15	2948
4000	7x15	3685
5000	7x15	4791
6000	7x15	5897

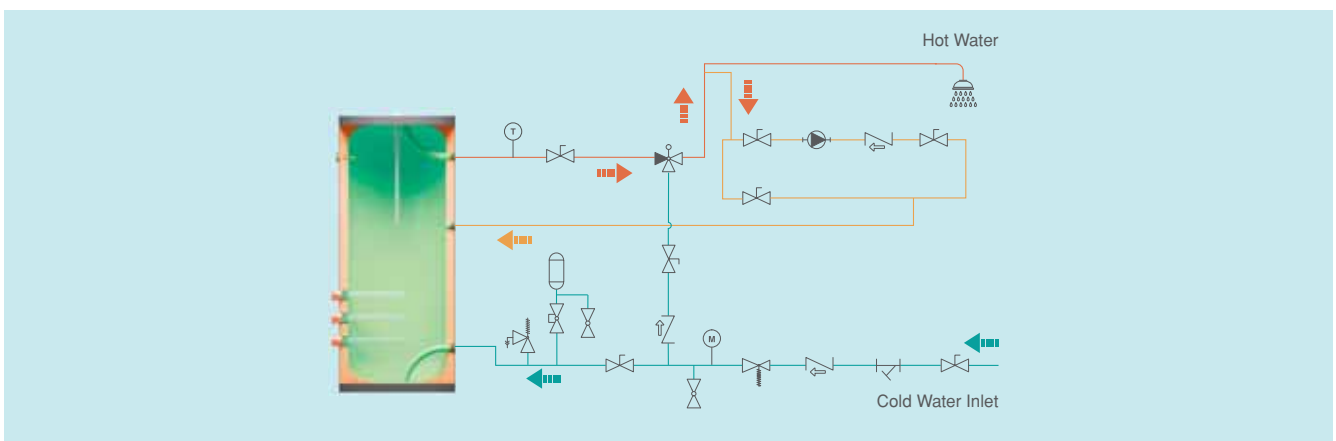


**!** The above values are based on 220V - 380V 50 Hz mains voltage.



	Unit	MIT 103	MIT 163	MIT 203	MIT 303	MIT 503	MIT 803	MIT 1003	MIT 1503	MIT 2003	MIT 2503	MIT 3003	MIT 4003	MIT 5003
Volume	lt	100	160	200	300	500	800	1000	1500	2000	2500	3000	4000	5000
Diameter	mm	490	590	590	700	750	900	1000	1120	1260	1460	1460	1660	1660
Height	mm	1080	1125	1320	1210	1800	2100	2070	2300	2230	2200	2560	2665	3100
Electric Heater Connection	inch	According to customer demand, heater selection is made.												
Cold Water Inlet	inch	3/4"	3/4"	3/4"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Hot Water Outlet	inch	3/4"	3/4"	3/4"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Circulation Return	inch	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1"	1"	1"	1 1/4"	1 1/4"	1 1/4"
Insulation Type & Thicknes	mm	PU/50	PU/50	PU/50	PU/50	PU/50	PU/80	PU/80	PU/80	PU/80	PU/80	PU/80	PU/80	PU/80
Gross Weight	kg	The weights of the products vary according to the heater. The product without the heater weighs the storage tank.												
Rollover Measure	mm	1205	1290	1465	1420	1970	2300	2320	2580	2580	2660	3020	3160	3535
Thermometer & Sensor Connection Ölçüleri	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
P&T Valve	inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Magnesium Anode Connection	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"

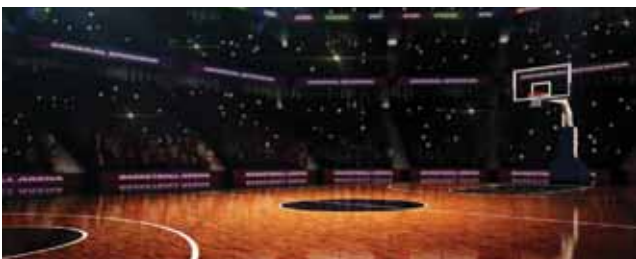
### MIT Water Heater Tanks With Electrical Resistance Connection Diagram



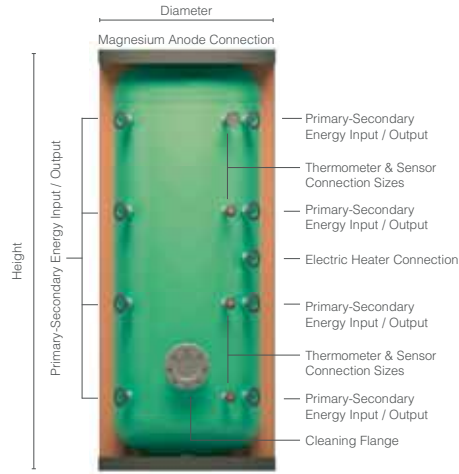
## MIT ACCUMULATION TANKS (WHITE SERIES)

Hot water storage tanks are used in villas, hotels, buildings, restaurants, factories and other places where hot water is needed.

<b>Volume</b>	100lt – 5000lt
<b>Maximum Working Temperature</b>	95 °C
<b>Body Pressure</b>	10 Bar
<b>Interior Surface Coating</b>	Glasslined enamel is applied according to DIN 4753-3 standard.
<b>Insulation</b> 100L-500L 800L-1000L 800L-5000L 800L-5000L	Complies with EN 15332 Energy Efficiency Standard 42 kg/m <sup>3</sup> HCFC free water based hard polyurethane 18 kg/m <sup>3</sup> Soft polyurethane 18 kg/m <sup>3</sup> Soft polyurethane 26 kg/m <sup>3</sup> Flame retardant soft polyurethane (Optional)
<b>Outer Sheath Coating</b> 100L-500L 800L-5000L	Electrostatic Powder Coated Sheet / Vinyl Artificial Leather Vinyl Artificial Leather.
<b>Thermometer</b>	0 °C – 120 °C
<b>Cleaning Flange</b>	All types of cleaning and inspection cover are available.
<b>Electric Heater</b>	An optional electric heater is available.
<b>Cathodic Protection Element</b>	Magnesium Anode according to DIN 4753-3 (Optional anode application)

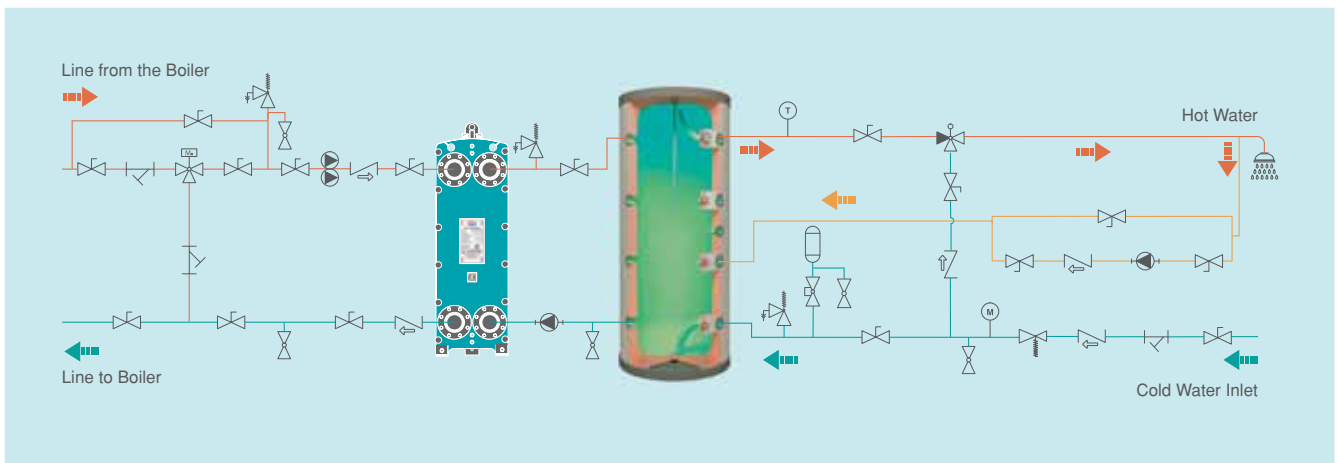






	Unit	MIT 104	MIT 164	MIT 204	MIT 304	MIT 504	MIT 804	MIT 1004	MIT 1504	MIT 2004	MIT 2504	MIT 3004	MIT 4004	MIT 5004
Volume	lt	100	160	200	300	500	800	1000	1500	2000	2500	3000	4000	5000
Diameter	mm	490	590	590	700	750	900	1000	1120	1260	1460	1460	1660	1660
Height	mm	1080	1125	1320	1210	1800	2100	2070	2300	2230	2200	2560	2665	3100
Primary-Secondary Energy Inlet / Outlet	inch	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	3"	3"
Cleaning Flange	inch	4"	4"	4"	4"	4"	5"	5"	5"	5"	5"	5"	5"	5"
Electric Heater Connection	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	2"	2"	2"	2"
Insulation Type	mm	PU/50	PU/50	PU/50	PU/50	PU/50	S/80	S/80	S/80	S/80	S/80	S/80	S/80	S/80
Gross Weight	kg	57	74	81	99	155	225	237	332	472	562	622	762	882
Rollover Measure	mm	1205	1290	1465	1420	1970	2300	2320	2580	2580	2660	3220	3160	3535
Thermometer & Sensor Connection Sizes	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Magnesium Anode Connections	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"

## Accumulation Tank Connection Diagram



## MIT BUFFER TANK WITH NO-BAFFLE/THERMAL BALANCE TANK (WHITE SERIES)

The buffer tank system used in all cooling systems that must be separated by heat exchangers such as residences, workplaces and hotels is also used in chilled water applications to increase the water volume extra.

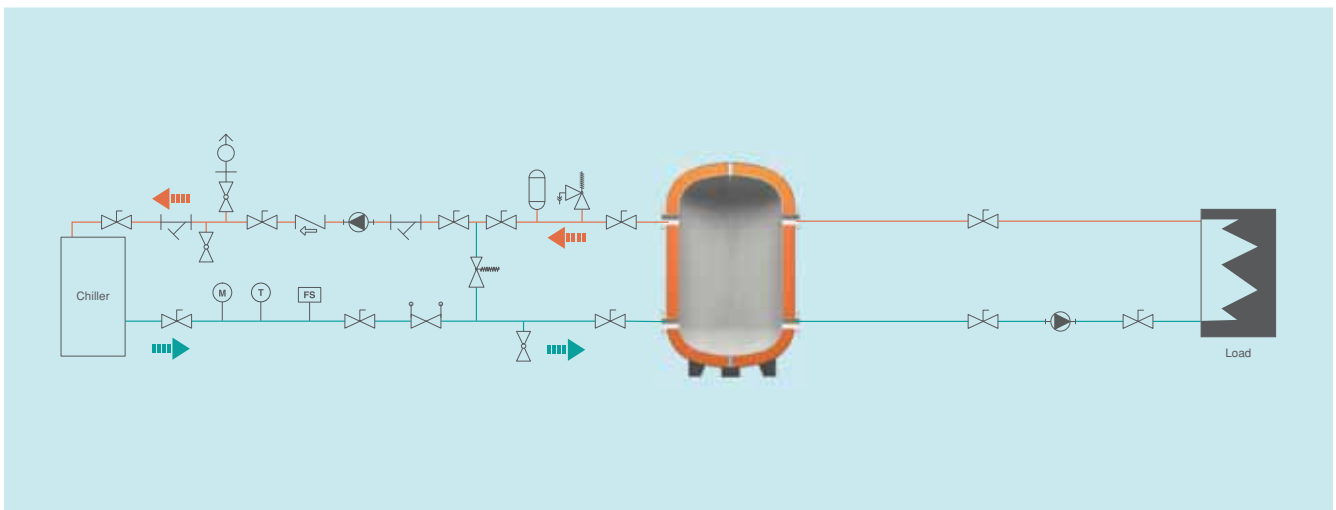
<b>Volume</b>	100 lt – 5000 lt (For larger pressure and volume buffer tanks can be manufactured in particular.)
<b>Maximum Working Temperature</b>	95 °C
<b>Operating Pressure</b>	6 Bar
<b>Connection Flange / Pressure Class</b>	DN 50 – DN 300 / PN16
<b>Interior Surface Coating</b>	Buffer tanks are made of high quality S235JR (TS EN 10025) and high corrosion resistance steel.
<b>Insulation</b> 100L-500L 800L-5000L 800L-5000L	Complies with EN 15332 Energy Efficiency Standard 18 kg/m <sup>3</sup> Soft polyurethane 18 kg/m <sup>3</sup> Soft polyurethane 26 kg/m <sup>3</sup> Flame retardant soft polyurethane (Optional)
<b>Outer Sheath Coating</b> 100L-500L 800L-5000L	Vinyl Artificial Leather Vinyl Artificial Leather





	Unit	MIT-B 104	MIT-B 304	MIT-B 504	MIT-B 804	MIT-B 1004	MIT-B 1504	MIT-B 2004	MIT-B 2504	MIT-B 3004	MIT-B 4004	MIT-B 5004
Volume	lt	100	300	500	800	1000	1500	2000	2500	3000	4000	5000
Diameter	mm	540	760	800	910	1010	1120	1260	1460	1460	1660	1660
Height	mm	1160	1285	1830	2130	2100	2440	2370	2260	2660	2700	3100
Primary-Secondary Energy Inlet / Outlet	inch / DN	1 1/2"	2"	2 1/2"	DN 80	DN 100	DN 125	DN 125	DN 150	DN 150	DN 200	DN 200
Discharge	inch	1 1/4"	1 1/2"	1 1/2"	2"	2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
Insulation Type & Thickness	mm	S/80	S/80	S/80	S/80	S/80	S/80	S/80	S/80	S/80	S/80	S/80
Gross Weight	kg	48	84	140	372	471	746	847	1198	1258	1774	1894
Rollover Measure	mm	1290	1515	2020	2335	2350	2700	2585	2710	3050	3190	3555
Primary Outlet Airing	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"

### Buffer Tank with No-Baffle Connection Diagram



! Depending on the customer request, 800 lt to 3000 lt capacity can be made with polyurethane insulation and galvanized steel electrostatic powder coating.

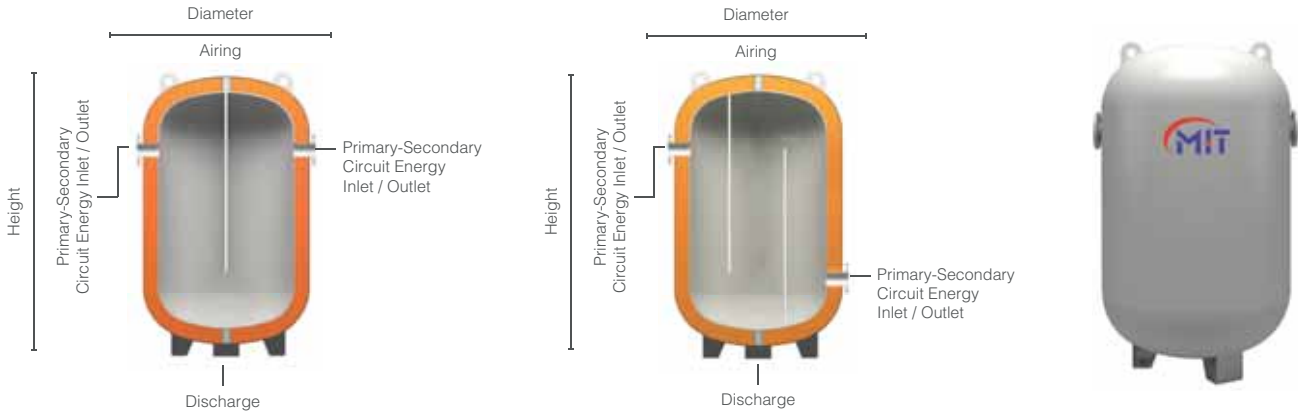
## MIT BUFFER TANKS WITH BAFFLE (WHITE SERIES)

The buffer tank system used in all cooling systems that must be separated by heat exchangers such as residences, workplaces and hotels is also used in chilled water applications to increase the water volume extra.

<b>Volume</b>	100 lt – 5000 lt (For larger pressure and volume buffer tanks can be manufactured in particular.)
<b>Maximum Working Temperature</b>	95 °C
<b>Operating Pressure</b>	6 Bar
<b>Connection Flange / Pressure Class</b>	DN 50 – DN 300 / PN16
<b>Interior Surface Coating</b>	Buffer tanks are made of high quality S235JR (TS EN 10025) high corrosion resistance steel.
<b>Insulation</b> 100L-5000L 100L-5000L	Complies with EN 15332 Energy Efficiency Standard 18 kg/m <sup>3</sup> Soft polyurethane 26 kg/m <sup>3</sup> Flame retardant soft polyurethane (Optional)
<b>Outer Sheath Coating</b> 100L-5000L	Vinyl Artificial Leather

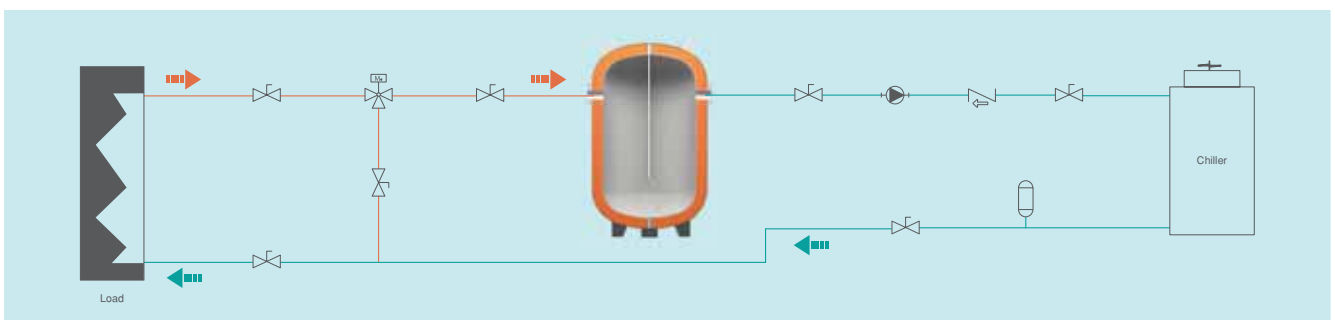






























	Unit	MIT-PB 104	MIT-PB 304	MIT-PB 504	MIT-PB 804	MIT-PB 1004	MIT-PB 1504	MIT-PB 2004	MIT-PB 2504	MIT-PB 3004	MIT-PB 4004	MIT-PB 5004	
Number of Baffles	piece	1				2				3			
Volume	lt	100	300	500	800	1000	1500	2000	2500	3000	4000	5000	
Diameter	mm	540	760	910	910	1010	1120	1260	1460	1460	1660	1660	
Height	mm	1160	1285	1540	2130	2100	2440	2370	2260	2660	2700	3100	
Primary-Secondary Energy Inlet / Outlet	DN	50	50	65	80	100	125	125	150	150	200	200	
Airing	inch	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	
Discharge	inch	3/4"	3/4"	1"	1"	1 1/4"	1 1/2"	1 1/2"	2"	2"	2"	2"	
Gross Weight	kg	62	108	180	248	395	395	535	636	756	912	1080	
Rollover Measure	mm	1290	1515	2000	2335	2700	2700	2585	2710	3050	3190	3555	

### MIT Buffer Tanks With Baffle Connection Diagram



 Solar Panel	 Temperature Display	 Pressure Display	 Switch Flow	 Pump	 Twin Pump	 Check Valve	 Air Relief Cock
 Bypass Vanası	 Pressure Breaker	 Dirt Holder	 Discharge Valve	 3 Way Valve	 Sediment Holder	 Air Separat	 Expansion Tanks with membrane
 Balance Valve	 Lock Valve	 Radiator Valve	 Spherical Valve	 Pressure Safety Valve	 3 Way Propport. Motor Valve	 2 Way Motor Valve	 Thermostatic Valve

Depending on the customer request, capacities from 800 lt to 3000 lt can be made with polyurethane insulation and electrostatic powder coating on galvanized steel sheet.





# **EXPANSION TANKS**

## MIT FOOTLESS AND HORIZONTAL EXPANSION TANK SERIES

### Technical Features of 10 Bar Footless Closed Expansion Tank

Model	Volume	Front Gas Pressure	Connection	Dimensions	
				Diameter	Height
MIT 10 K	8 lt	2	1"	220	320
MIT 10 K	12 lt	2	1"	220	380
MIT 10 K	19 lt	2	1"	280	430
MIT 10 K	24 lt	2	1"	280	470
MIT 10 K Ball Shaped	24 lt	2	1"	360	325
MIT 10 K	35 lt	2	1"	380	470
MIT 10 K	50 lt	4	1"	380	560



### Technical Features of 10 Bar Footless Closed Expansion Tank

Model	Volume	Pre-Charge Pressure	Connection	Dimensions	
				Diameter	Height
MIT 10 Y	24 lt	2	1"	280	470
MIT 10 Y	50 lt	4	1"	380	620
MIT 10 Y	60 lt	4	1"	380	670
MIT 10 Y	80 lt	4	1"	430	720
MIT 10 Y	100 lt	4	1"	460	800





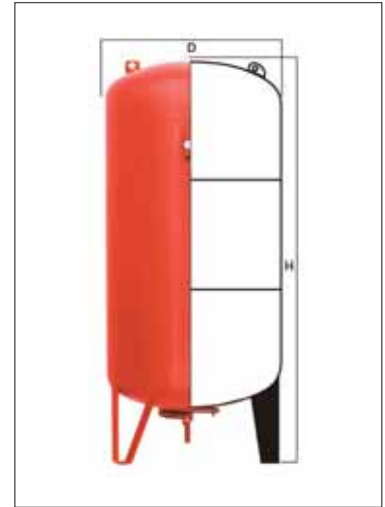
## MIT VERTICAL EXPANSION TANK SERIES

### Technical Features of 10 Bar Footless Closed Expansion Tank



Model	Volume	Pre-Charge Pressure	Connection	Dimensions	
				Diameter	Height
MIT 10	50 lt	4	1"	380	750
MIT 10	60 lt	4	1"	380	810
MIT 10	80 lt	4	1"	430	960
MIT 10	100 lt	4	1"	460	990
MIT 10	150 lt	4	1"	500	1100
MIT 10	200 lt	4	1 1/4"	590	1120
MIT 10	300 lt	4	1 1/4"	640	1230
MIT 10	500 lt	4	1 1/4"	750	1550
MIT 10	750 lt	4	2"	750	1950
MIT 10	750 lt	4	2"	800	1850
MIT 10	900 lt	4	2"	800	1950
MIT 10	1000 lt	4	2"	800	2180
MIT 10	1500 lt	4	2"	960	2380
MIT 10	2000 lt	4	2"	1100	2520
MIT 10	3000 lt	4	2 1/2"	1200	2800
MIT 10	4000 lt	4	3"	1450	3100
MIT 10	5000 lt	4	3"	1450	3720
MIT 10	10000 lt	4	DN100	1600	5750

## Technical Features of 16 Bar Vertical Closed Expansion Tank



Model	Volume	Pre-charge Pressure	Connection	Dimensions	
				Diameter	Height
MIT 16	50 lt	4	1"	380	750
MIT 16	60 lt	4	1"	380	810
MIT 16	80 lt	4	1"	430	960
MIT 16	100 lt	4	1"	460	990
MIT 16	150 lt	4	1"	500	1100
MIT 16	200 lt	4	1 1/4"	590	1120
MIT 16	300 lt	4	1 1/4"	640	1230
MIT 16	500 lt	4	1 1/4"	750	1550
MIT 16	750 lt	4	2"	800	1850
MIT 16	900 lt	4	2"	800	1950
MIT 16	1000 lt	4	2"	800	2180
MIT 16	1500 lt	4	2"	960	2380
MIT 16	2000 lt	4	2"	1100	2520
MIT 16	3000 lt	4	2 1/2"	1200	2800
MIT 16	4000 lt	4	3"	1450	3100
MIT 16	5000 lt	4	3"	1450	3720
MIT 16	10000 lt	4	DN100	1600	5750

## Technical Features of 25 Bar Vertical Closed Expansion Tank



Model	Volume	Pre-charge Pressure	Connection	Dimensions	
				Diameter	Height
MIT 25	50 lt	4	1"	380	750
MIT 25	60 lt	4	1"	380	810
MIT 25	80 lt	4	1"	450	910
MIT 25	100 lt	4	1"	450	990
MIT 25	150 lt	4	1"	500	1100
MIT 25	200 lt	4	1 1/4"	600	1120
MIT 25	300 lt	4	1 1/4"	640	1230
MIT 25	500 lt	4	1 1/4"	750	1550
MIT 25	750 lt	4	2"	800	1850
MIT 25	900 lt	4	2"	800	1950
MIT 25	1000 lt	4	2"	800	2180
MIT 25	1500 lt	4	2"	960	2380
MIT 25	2000 lt	4	2"	1100	2520
MIT 25	3000 lt	4	2 1/2"	1200	2800
MIT 25	4000 lt	4	3"	1450	3100
MIT 25	5000 lt	4	3"	1450	3720
MIT 25	10000 lt	4	DN100	1600	5750

## MIT MEMBRANE SERIES

### Technical Details of Membranes

- The membranes, which are used in our tanks, are manufactured from EPDM and BUTYL rubber materials.
- EPDM membranes are used in our expansion tanks which is from 8 Lt to 4000 Lt.
- BUTYL Membrane is used in our 5000 Lt and over capacity expansion tanks.
- EPDM Membrane is resistant to +10 / +110 °C.
- BUTYL Membrane is sliding up to +10 / +130 °C.
- The membranes used in our expansion tanks can be used in all drinking water.



Dimension and Capacity	Rubber Material	Flange (mm)	Height (mm)
MIT 8-12 lt	EPDM	80-110	195
MIT 18-24 lt	EPDM	80-110	248
MIT 35-60 lt	EPDM	80-110	315
MIT 80-100 lt	EPDM	80-110	700
MIT 150 lt	EPDM	80-110	750
MIT 200 lt	EPDM	150-210	800
MIT 300 lt	EPDM	150-210	1000
MIT 500 lt	EPDM	150-210	1400
MIT 750 lt	EPDM	150-210	1600
MIT 1000 lt	EPDM	200-250	2000
MIT 1500 lt	EPDM	200-250	2000
MIT 2000 lt	EPDM	200-250	2000
MIT 8-12 lt	BUTYL	80-110	195
MIT 18-24 lt	BUTYL	80-110	248
MIT 35-60 lt	BUTYL	80-110	315
MIT 80-100 lt	BUTYL	80-110	700
MIT 150 lt	BUTYL	80-110	750
MIT 200 lt	BUTYL	150-210	800
MIT 300 lt	BUTYL	150-210	1000
MIT 500 lt	BUTYL	150-210	1400
MIT 750 lt	BUTYL	150-210	1600
MIT 1000 lt	BUTYL	200-250	2000
MIT 1500 lt	BUTYL	200-250	2000
MIT 2000 lt	BUTYL	200-250	2000
MIT 3000 lt	BUTYL	150-210	2515
MIT 4000 lt	BUTYL	250-300	2680
MIT 5000 lt	BUTYL	150-210, 250-300	3440
MIT 10000 lt	BUTYL	150-210, 250-300	5655









A large, stylized green arrow graphic that curves from the left side of the page towards the center, pointing towards the right. It is composed of several overlapping, semi-transparent green shapes that create a sense of motion and direction.

# **STAINLESS STEEL PROCESS TANKS**



## MIT STAINLESS STEEL ACCUMULATION TANKS AND WATER HEATER TANKS

MIT, one of the most known and preferred brands of Turkey, has been continuing to create new ideas and developments to improve plate heat exchanger sector.

Ekin aims to develop its product range and the most concrete proof of this determination is MIT stainless tanks.

Since the day it is founded with the philosophy of "We have a dream", Ekin personnel, who work nonstop, have been realizing that the dream is becoming true and they raise the bar and continue chasing their dreams.



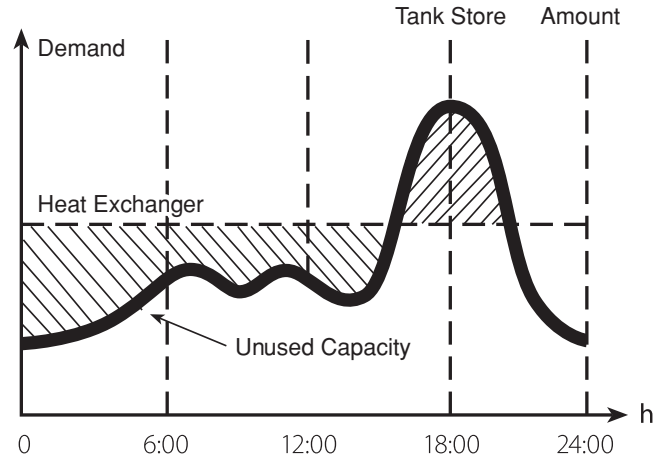
## Why Should I Use Stainless Steel Tanks?

In order to obtain the water needed hygienically, they can be easily used in all drinking water and food processes due to their material properties. Due to their extremely long life compared to standard pressure tanks it is recommended to use stainless tanks. Our stainless production tanks offer excellent resistance to corrosion, regardless of the hardness of the mains water. These tanks are able to operate in a long life and in a healthy way at the places of use. Customer-dependent designs can be customized.

### Usage Areas

- Apartments
- Drinking water facilities
- Hospitals
- Dormitories
- Sports facilities
- Factories
- Public buildings

Wherever there is a need for hot water, an accumulation tank is used.



**Stainless Steel Tanks in different capacities from 100 lt to 30.000 lt.**

### Accessories that can be added according to customer's request

- Safety valve is also mounted on tanks upon request.
- In addition, our stainless tanks are produced with electric control panel upon request.



Horizontal and vertical models are available.



## Why Should I Use Stainless Steel Water Heater Tank and Accumulation Tank?

MIT stainless steel tanks are produced by advanced technology and experienced R & D engineers. As the welding method of the products and the pressure applied during the test are produced by increasing the safety coefficients, they can be used with a long life and suitable for the system. Since our stainless production tanks can be produced with special design according to each system, they can be easily integrated into the systems.

In addition to the robust, long-lasting and hygienic products we have adopted in our production, this quality is the most affordable price policy that can be achieved.

### Hygienic + Long Life MIT Stainless Steel Tanks = Smooth Operation

MIT stainless steel boilers and storage tanks are manufactured with hygiene materials that can be safely used in the food industry. Thanks to the custom design serpentine, bacteria are prevented from forming in the boiler. Thanks to the hygienic water inside the MIT stainless tanks, the stored hot water can be used both as domestic hot water and as drinking water.

### Corrosion Resistance Is Very High;

All MIT tanks and accumulator tanks made of stainless steel are produced with appropriate materials considering all corrosion types. In addition, galvanic and cathodic protection was increased to a very high level with the magnesium anodes used.

### Durability;

The service life of MIT stainless steel tanks and storage tanks is longer than enamel or galvanized immersion chambers due to the structure of the material used. Maintenance and repair is very easy.

### Uninterrupted and Trouble-Free Operation;

MIT stainless steel tanks and accumulation tanks provide long life, maintenance and repair facilities, as well as efficient use of energy throughout the system, providing ideal solution for residential and commercial buildings, industrial plants, providing uninterrupted and trouble-free operation.



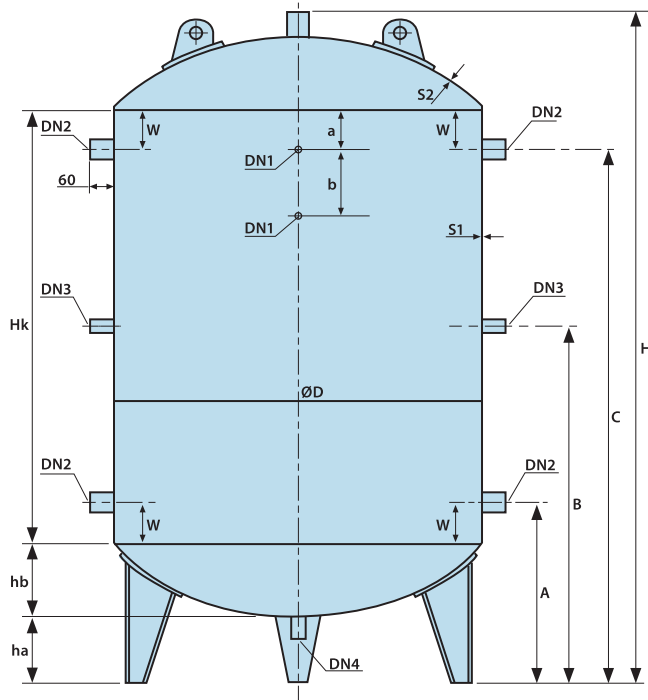


## Dimensions and Material Features

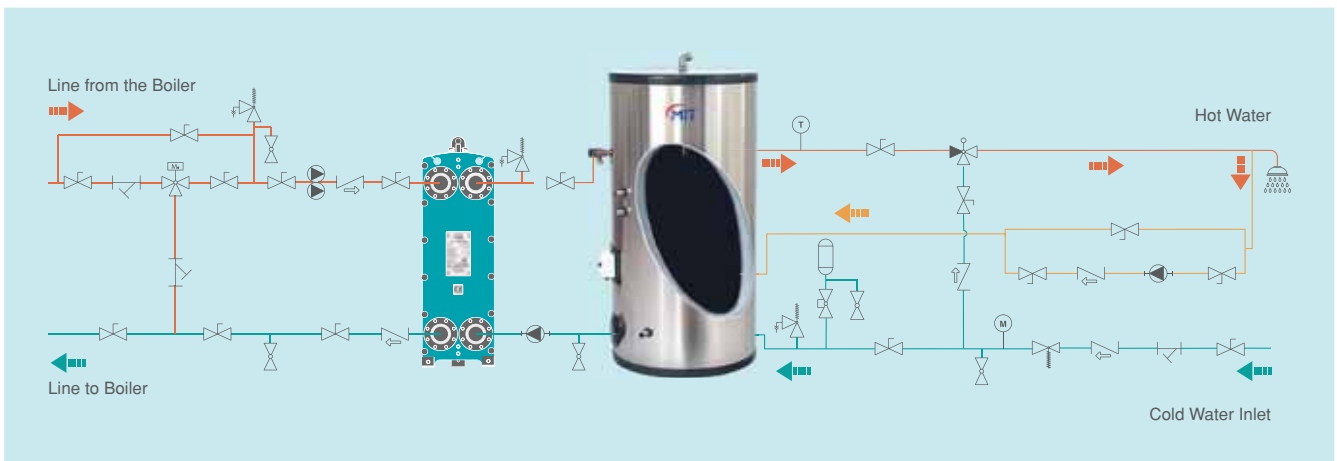
Model		MIT-SS 100	MIT-SS 160	MIT-SS 200	MIT-SS 350	MIT-SS 500	MIT-SS 600	MIT-SS 800
D	mm	400	460	475	550	650	660	780
Dpul	mm	420	500	500	700	820	820	935
A	mm	350	350	350	350	400	400	450
B	mm	650	650	750	875	925	1025	1075
C	mm	900	950	1150	1400	1450	1650	1700
H	mm	1160	1210	1410	1660	1760	1960	2010
Hk	mm	750	800	1000	1250	1250	1450	1450
hb	mm	100	100	100	120	150	150	150
ha	mm	150	150	150	150	150	150	200
w	mm	100	100	100	100	100	100	100
a	mm	100	100	100	100	100	100	100
b	mm	150	150	150	200	200	200	200
DN 1		1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"
DN 2		1"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/2"
DN 3		3/4"	3/4"	3/4"	1"	1"	1"	1"
DN 4		3/4"	3/4"	3/4"	1"	1"	1"	1"
Material		AISI 304	AISI 304	AISI 304	AISI 304	AISI 304	AISI 304	AISI 304
Serpentine		1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
Serpentine Surfaces	m <sup>2</sup>	0,6	0,85	1,2	1,5	2	2,2	2,92
S1 Body	mm	2	2	2	3	3	3	3
S2 Camber	mm	2	2	3	3	3	3	3

Model		MIT-SS 1000	MIT-SS 1500	MIT-SS 2000	MIT-SS 2500	MIT-SS 3000	MIT-SS 4000	MIT-SS 5000
D	mm	850	1050	1050	1200	1300	1300	1500
Dpul	mm	1055	1290	1290	1500	1590	1590	1830
A	mm	500	580	570	570	600	670	680
B	mm	1100	1130	1445	1370	1425	1770	1780
C	mm	1700	1680	2320	2170	2200	2870	2880
H	mm	2060	2060	2700	2550	2610	3350	3360
Hk	mm	1500	1500	2000	1800	2000	2500	2500
hb	mm	200	220	220	220	250	320	320
ha	mm	200	260	250	250	250	250	260
w	mm	100	100	100	100	100	100	100
a	mm	100	150	150	150	150	150	150
b	mm	200	200	200	200	200	200	200
DN 1		3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
DN 2		2"	2 1/2"	2 1/2"	2 1/2"	3"	3"	3"
DN 3		1 1/4"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"
DN 4		1 1/4"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"
Material		AISI 304	AISI 304	AISI 304	AISI 304	AISI 304	AISI 304	AISI 304
Serpentine		1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
Serpentine Surfaces	m <sup>2</sup>	2,95	4	5	6	7	8	9
S1 Body	mm	3	4	4	4	4	4	5
S2 Camber	mm	4	4	5	5	5	6	6

## Dimensions



## Accumulations Tank - Connection Diagram



Solar Panel	Temperature Display	Pressure Display	Switch Flow	Pump	Twin Pump	Check Valve	Air Relief Cock
Bypass Valve	Pressure Breaker	Dirt Holder	Discharge Valve	3 Way Valve	Sediment Holder	Air Separat	Expansion Tanks with membrane
Balance Valve	Lock Valve	Radiator Valve	Spherical Valve	Pressure Safety Valve	3 Way Proport. Motor Valve	2 Way Motor Valve	Thermostatic Valve

## Water Heater Tank Types

### Stainless Steel Tanks

Material: 304 L or 316 L

### Insulation

- Polyurethane
- Special sponge
- Glass wool
- Rock wool

### Advantages

- Very high corrosive strength
- Very long service life
- High compressive strength
- Low heat loss



### MIT Boiler Capacities

- Stainless Steel.
- Cathodic protection is available.
- Soft PU (Sponge) insulation.
- Stitched pipe with serpentine.
- Cleaning hole is available.
- Thermometer is on the boiler.
- Electric heater can be added in desired sizes.

SINGLE SERPANTINE			
Capacity (lt)	Heater Fluid Temperature	Heating Capacity (lt/h) 10 °C - 60 °C	Heating Capacity (lt/h) 10 °C - 45 °C
100	90-70 °C	280	529
	80-60 °C	178	357
160	90-70 °C	400	714
	80-60 °C	238	477
200	90-70 °C	620	1114
	80-60 °C	380	763
300	90-70 °C	620	1114
	80-60 °C	380	763
500	90-70 °C	1080	1857
	80-60 °C	680	1315
800	90-70 °C	1560	2729
	80-60 °C	1020	1915
1000	90-70 °C	1560	2729
	80-60 °C	1020	1915
1500	90-70 °C	2000	3486
	80-60 °C	1300	2458
2000	90-70 °C	2580	4429
	80-60 °C	1680	3143
2500	90-70 °C	3361	5801
	80-60 °C	2200	4115
3000	90-70 °C	3881	6687
	80-60 °C	2560	4744
4000	90-70 °C	4120	6870
	80-60 °C	3020	5220
5000	90-70 °C	5430	8750
	80-60 °C	4230	6600

DOUBLE SERPANTINE			
Capacity (lt)	Heater Fluid Temperature	Heating Capacity (Top+Bottom) (lt/h) 10 °C - 60 °C	Heating Capacity (Top+Bottom) (lt/h) 10 °C - 45 °C
160	90-70 °C	432	797
	80-60 °C	238	508
200	90-70 °C	568	1032
	80-60 °C	328	683
300	90-70 °C	568	1032
	80-60 °C	328	683
500	90-70 °C	1708	2971
	80-60 °C	1068	2078
800	90-70 °C	2260	3978
	80-60 °C	1460	2772
1000	90-70 °C	2260	3978
	80-60 °C	1460	2772
1500	90-70 °C	2700	4735
	80-60 °C	1740	3315
2000	90-70 °C	3750	6475
	80-60 °C	2430	4572
2500	90-70 °C	4801	8287
	80-60 °C	3120	5864
3000	90-70 °C	5696	9773
	80-60 °C	3710	6916
4000	90-70 °C	2100	4250
	80-60 °C	1230	3210
5000	90-70 °C	3050	4800
	80-60 °C	1730	4010

80 °C 90-70 Boiler      70 °C 80-60 Boiler



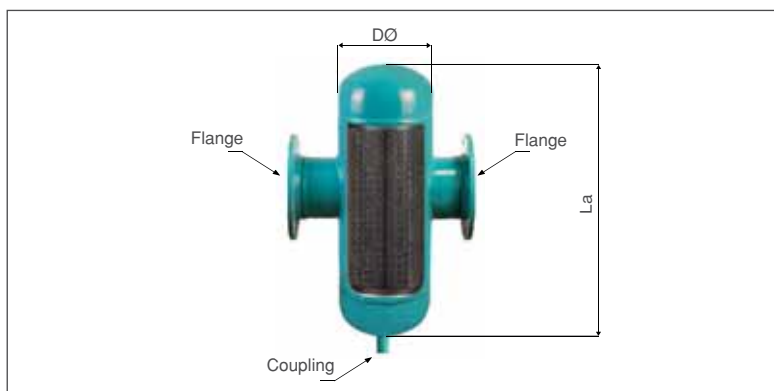


# SEPERATORS



## SEPERATORS

### Dirt Seperators



TECHNICAL INFORMATION			
Code	Connection Diameter	Body Diameter	Height
MIT-TT	DN	ØD	La
MIT-TT-25	25	100	300
MIT-TT-32	32	125	310
MIT-TT-40	40	125	310
MIT-TT-50	50	150	320
MIT-TT-65	65	150	420
MIT-TT-80	80	200	490
MIT-TT-100	100	200	490
MIT-TT-125	125	250	630
MIT-TT-150	150	300	680
MIT-TT-200	200	400	700
MIT-TT-250	250	500	1030
MIT-TT-300	300	600	1320

It prevents the unknown matter in the water (mud and dirt etc.) from entering the water from entering into the drainage.

#### Features

- 1"-12" wiring connection (DN25-DN300).
- Maximum operation of 10 and 16 atm.
- The test pressure is 1.5 times the operating pressure.
- Maximum operating temperature of 120 °C
- PN16 pressure class.
- Electrostatic powder coating.

#### Advantages

- The impurities are filtered from the filter and accumulate in the lower part of the device.
- Thus, the system will never be clogged.

- The accumulated sediment is easily discharged through the drain valve under the device.

#### Connection Types

- Flanged Connection
- Tube Welded Connection
- Threaded Connection

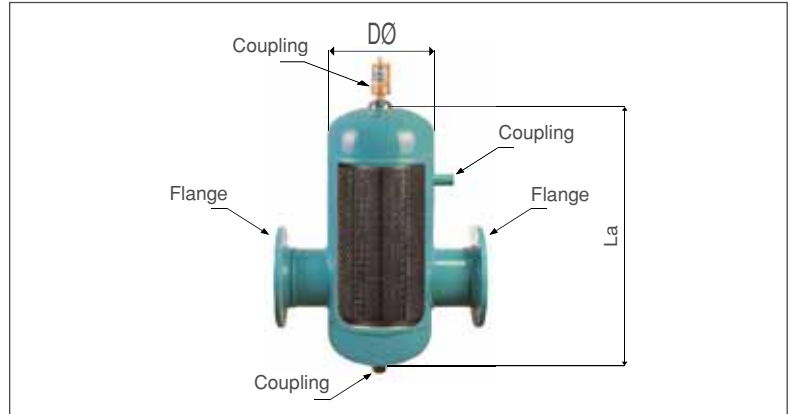
#### Certificates

- TSEK Certificate
- CE Certificate
- ISO 9001 Certificate



Measurements are approximate and may vary. Production is done according to project and application dimensions.

## Air Separators



### TECHNICAL INFORMATION

Code	Connection Diameter	Body Diameter	Height
MIT-HA	DN	ØD	La
MIT-HA-25	25	100	300
MIT-HA-32	32	125	310
MIT-HA-40	40	125	310
MIT-HA-50	50	150	320
MIT-HA-65	65	150	420
MIT-HA-80	80	200	490
MIT-HA-100	100	200	490
MIT-HA-125	125	250	630
MIT-HA-150	150	300	680
MIT-HA-200	200	400	700
MIT-HA-250	250	500	1030
MIT-HA-300	300	600	1320

The air and water, which are dissolved in the water, start to circulate with the water in the system by increasing the temperature. This air can cause corrosion in materials such as pipes, fittings, boilers and combi boilers. Sound causes circulatory disorders and cavitation in pumps. Due to the air of the radiators, it can cause non-heating problems. Therefore, these problems are prevented by using air separators in the system.

### Features

- 1"-12" wiring connection (DN25-DN300).
- 10 and 16 atm recommended operation.
- The test pressure is 1.5 times the operating pressure.
- Maximum use temperature of 120 °C.
- PN16 pressure class.
- Electrostatic powder coating.

### Advantages

- Discharges the air in the system.
- The air is continuously evacuated when the system is running without the need to stop the pump

during venting.

- The top drain valve is provided for draining air during filling.

### Connection Types

- Flanged Connection
- Tube Welded Connection
- Threaded Connection

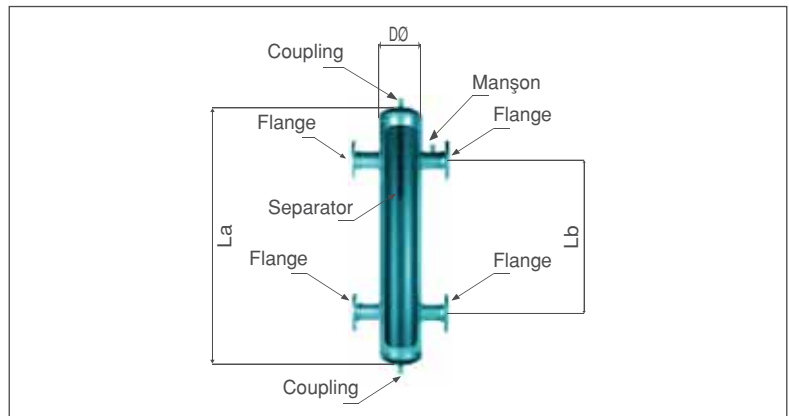
### Certificates

- TSEK Certificate
- CE Certificate
- ISO 9001 Certificate



Measurements are approximate and may vary. Production is done according to project and application dimensions.

## Balance Tank



### TECHNICAL INFORMATION

Code	Connection Diameter	Body Diameter	Height	Interconnection Height	Flow	Capacity
MIT-DK	DN	ØD	La	Lb	m <sup>3</sup> /h	kW
MIT-DK-25	25	65	450	280	1	20
MIT-DK-32	32	65	450	270	1,7	29
MIT-DK-40	40	80	480	320	2,5	43
MIT-DK-50	50	100	600	350	4	70
MIT-DK-65	65	150	720	400	8	140
MIT-DK-80	80	200	940	500	12	210
MIT-DK-100	100	200	940	500	20	350
MIT-DK-125	125	250	1160	600	32	550
MIT-DK-150	150	300	1380	700	52	900
MIT-DK-200	200	400	1840	1000	100	1750
MIT-DK-250	250	500	2130	1250	185	3250
MIT-DK-300	300	600	2420	1660	300	5250

In the boiler circuit (primary circuit) and in the heating circuits (secondary circuit) the hydraulic balance vessel separates the boiler circuit and the heating circuits from each other if there are different heating water flows.

### Features

- 1"-12" wiring connection (DN25-DN300).
- 10 and 16 atm recommended operation.
- The test pressure is 1.5 times the operating pressure.
- Maximum operating temperature of 120 °C.
- PN16 pressure class.
- Electrostatic powder coating.

### Advantages

- There is no hydraulic effect between the boiler circuit and the heating circuit.
- Boilers and heating zones operate under suitable water flow.
- It can be used in single or multiboiler systems

regardless of heating circuit control systems.

- The adjustment elements on both sides of the equilibrium container work optimally. (Three-way valve, etc.) Boiler circuit and adjustment elements are dimensioned without any problem.

### Connection Types

- Flanged Connection
- Tube Welded Connection
- Threaded Connection

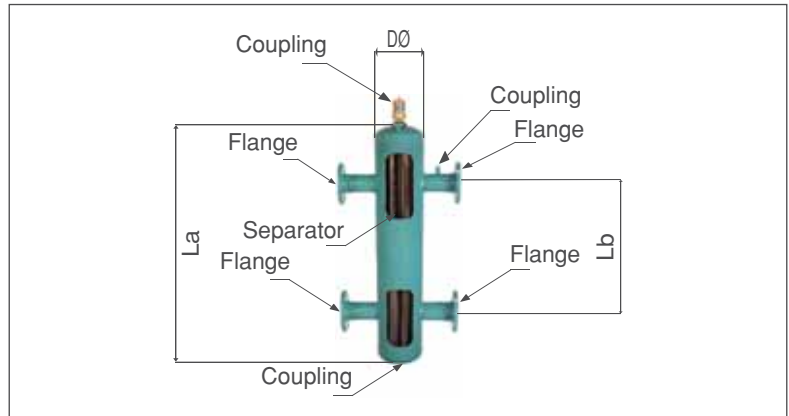
### Certificates

- TSEK Certificate
- CE Certificate
- ISO 9001 Certificate



Measurements are approximate and may vary. Production is done according to project and application dimensions.

## Combined Balance Tank



### TECHNICAL INFORMATION

Code	Connection Diameter	Body Diameter	Height	Interconnection Height	Flow	Capacity
MIT-PDK	DN	ØD	La	Lb	m <sup>3</sup> /h	kW
MIT-PDK-25	25	65	450	280	1	20
MIT-PDK-32	32	65	450	270	1,7	29
MIT-PDK-40	40	80	480	320	2,5	43
MIT-PDK-50	50	100	600	350	4	70
MIT-PDK-65	65	150	720	400	8	140
MIT-PDK-80	80	200	940	500	12	210
MIT-PDK-100	100	200	940	500	20	350
MIT-PDK-125	125	250	1160	600	32	550
MIT-PDK-150	150	300	1380	700	52	900
MIT-PDK-200	200	400	1840	1000	100	1750
MIT-PDK-250	250	500	2130	1250	185	3250
MIT-PDK-300	300	600	2420	1660	300	5250

The combined balance tank performs the function of the air separator, the sediment retainer-strainer and the equilibrium tank. Thanks to this feature, it provides significant cost savings.

### Features

- 1"-12" wiring connection (DN25-DN300).
- 10 and 16 atm recommended operation.
- The test pressure is 1.5 times the operating pressure.
- Maximum use temperature of 120 °C.
- PN16 pressure class.
- Electrostatic powder coating.

### Advantages

- In closed circuit heating systems, the heater extends the life of the boiler systems by making thermal and hydraulic balancing between the welding and the installation.
- Provides pressure, temperature and flow balance of different heat boilers.

- The air separation process can be done very quickly thanks to the automatic air purge air purifier. Thanks to the drain cock at the bottom of the equilibrium vessel, the deposits and debris accumulated in the container can be easily emptied.

### Connection Types

- Flanged Connection
- Tube Welded Connection
- Threaded Connection

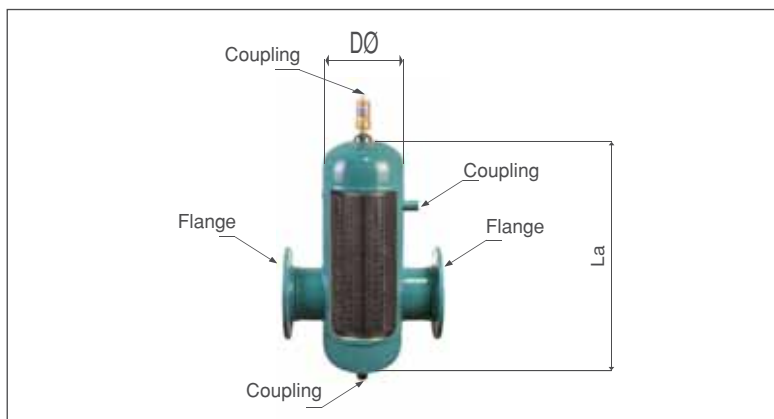
### Certificates

- TSEK Certificate
- CE Certificate
- ISO 9001 Certificate



Measurements are approximate and may vary. Production is done according to project and application dimensions.

## Combined Dirt and Air Separators



TECHNICAL INFORMATION			
Code	Connection Diameter	Body Diameter	Height
MIT-PTHA	DN	ØD	La
MIT-PTHA-25	25	100	300
MIT-PTHA-32	32	125	310
MIT-PTHA-40	40	125	310
MIT-PTHA-50	50	150	320
MIT-PTHA-65	65	150	420
MIT-PTHA-80	80	200	490
MIT-PTHA-100	100	200	490
MIT-PTHA-125	125	250	610
MIT-PTHA-150	150	300	675
MIT-PTHA-200	200	400	750
MIT-PTHA-250	250	500	1030
MIT-PTHA-300	300	600	1320

It prevents the unknown matter in the water (sludge, sediment and dirt caused by the water) to enter into the drainage and into the drain.

### Features

- 1"-12" wiring connection (DN25-DN300).
- 10 and 16 atm recommended operation.
- The test pressure is 1.5 times the operating pressure.
- Maximum use temperature of 120 °C.
- PN16 pressure class.
- Electrostatic powder coating.

### Advantages

- The impurities are filtered from the filter and accumulate in the lower part of the device.
- Thus, the system will never be clogged.
- The accumulated sediment is easily discharged

through the drain valve under the device.

- The air separation process can be done very quickly thanks to the automatic air purge air purifier. Thanks to the drain cock at the bottom of the equilibrium container, the sediment and debris holder accumulated in the container can be easily emptied.

### Connection Types

- Flanged Connection
- Tube Welded Connection
- Threaded Connection



Measurements are approximate and may vary. Production is done according to project and application dimensions.



## Neutralization Unit Pro



TECHNICAL INFORMATION						
Code	Capacity	Flow	Width	Depth	Height	Inlet-Outlet
MIT-NUP	kW	l/h	mm	mm	mm	inch
MIT-NUP-350	350	40	400	300	235	3/4"
MIT-NUP-500	500	60	400	300	235	3/4"
MIT-NUP-750	750	90	600	400	235	3/4"
MIT-NUP-1000	1000	120	600	400	235	3/4"
MIT-NUP-1500	1500	180	600	400	335	3/4"
MIT-NUP-2000	2000	240	600	600	335	1"
MIT-NUP-3000	3000	360	800	600	400	1"
MIT-NUP-4000	4000	480	800	600	400	1"

Due to condensation occurring during combustion and condensation of flue gases, pH values are reduced and condensate acid is formed. The condensate acid causes severe ecological problems and causes corrosive effects on the economizer and the boiler. The neutralization device prevents this problem by neutralizing the pH value.

### Features

- Complies with legislation.
- Material is PP or HDPE.
- Easy to install and use.
- Easy maintenance and cleaning.
- Can be manufactured in different dimensions and capacities.

### Certificates

- TSEK Certificate
- CE Certificate
- ISO 9001 Certificate



Measurements are approximate and may vary. Production is done according to project and application dimensions.

## Neutralization Unit Eco




TECHNICAL INFORMATION						
Code	Capacity	Flow	Width	Depth	Height	Inlet-Outlet
MIT-NUE	kW	l/h	mm	mm	mm	inch
MIT-NUE-350	350	50	400	300	300	1"
MIT-NUE-500	500	60	400	300	300	1"
MIT-NUE-750	750	100	565	410	370	1 1/2"
MIT-NUE-1000	1000	120	565	410	370	1 1/2"
MIT-NUE-1500	1500	180	600	490	340	1 1/2"
MIT-NUE-2000	2000	200	600	490	340	1 1/2"
MIT-NUE-2500	2500	250	800	600	500*	1 1/2"
MIT-NUE-3000	3000	300	800	600	500*	1 1/2"

### Features

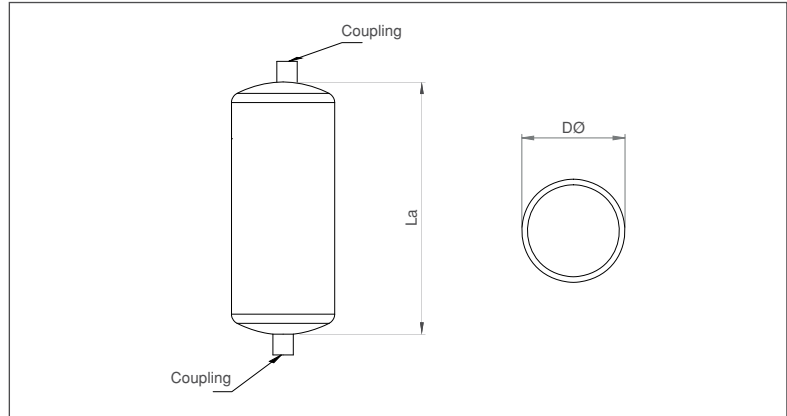
- Complies with legislation.
- Material is PP or HDPE.
- Easy to install and use.
- Easy maintenance and cleaning.
- Affordable and effective system.
- Various sizes and capacities can be manufactured.
- Cover bolts are stainless steel.
- Tank content; Lime Stone (Calcium Carbonate) and Neutralization Granules.

### Caution

- The limestone in the tank should contain more than 90% calcium carbonate.
- Calcium carbonate is low (inactive particles in chemical reaction form sludge in the tank), thus preventing chemical reaction and fluid flow.
- When the amount of limestone in the tank falls below a certain level, new ones are placed.
- The pH value should be measured at periodic intervals.
- If the pH value is low, the stone level should be checked.

 Measurements are approximate and may vary. Production is done according to project and application dimensions. \* These models are wheeled and the height including the wheel is 640 mm.

## Air Tanks



TECHNICAL INFORMATION			
Code	Capacity	Body Diameter	Height
MIT-HT	lt	ØD	La
MIT-HT-5	5	150	225
MIT-HT-10	10	200	260
MIT-HT-15	15	200	390
MIT-HT-20	20	300	240
MIT-HT-30	30	300	360
MIT-HT-40	40	300	480

The air tank ensures that the air formed in the pipes and radiators in the central heating systems is easily collected and discharged from the top branch. Allows air in the system to be evacuated. Continuously evacuates air while the system is running. A relief valve or an air breather can be installed.

### Features

- 10-16 atm maximum operation.
- The test pressure is 1.5 times the operating pressure.
- Maximum use temperature of 120 °C.
- Electrostatic powder coating.

### Certificates

- TSEK Certificate
- CE Certificate
- ISO 9001 Certificate



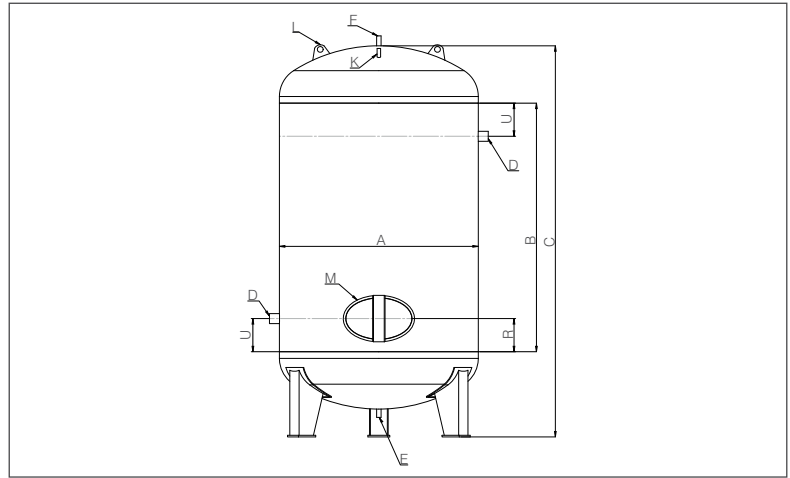
Measurements are approximate and may vary. Production is done according to project and application dimensions.





# AIR TANKS

## MIT AIR TANKS



### TECHNICAL INFORMATION

Volume	A	B	C	D	F	K	E	M	U	R	L	Pressure (bar)	Wall Thickness (mm)	Weight (kg)
100 lt	323	1000	1300	3/4"	1/2"	1/2"	1/2"	-	200	-	1	10	3	50
												16	4	
												40	8	
200 lt	450	1200	1500	3/4"	1/2"	1/2"	1/2"	-	200	-	1	10	4	85
												16	5	
												40	10	
300 lt	550	1200	1600	3/4"	1/2"	1/2"	1/2"	-	200	-	1	10	4	110
												16	5	
												40	10	
500 lt	600	1500	2100	1 1/4"	1/2"	1/2"	1/2"	-	200	-	1	10	4	155
												16	5	
												40	10	
1000 lt	850	1500	2250	1 1/4"	1/2"	1/2"	1/2"	140x180	200	200	1	10	5	295
												16	6	
												40	12	
1500 lt	1000	1500	2350	1 1/4"	3/4"	1/2"	1/2"	140x180	200	200	1	10	6	525
												16	8	
												40	14	
2000 lt	1150	1500	2350	2"	3/4"	1/2"	3/4"	140x180	200	200	2	10	6	530
												16	8	
												40	14	
3000 lt	1150	2000	3100	2"	3/4"	1/2"	3/4"	140x180	200	200	2	10	6	660
												16	8	
												40	14	
4000 lt	1660	1500	2750	DN 80	2"	1/2"	1"	320x440	375	375	2	10	8	1150
												16	12	
5000 lt	1600	2000	3100	DN 80	2"	1/2"	1"	320x440	375	375	2	10	8	1360
												16	12	
6000 lt	1600	2500	3600	DN 80	2"	1/2"	1"	320x440	375	375	2	10	10	1700
												16	14	
8000 lt	1600	3000	4600	DN 100	2"	1/2"	1"	320x440	375	375	2	10	10	2200
												16	14	
10000 lt	1900	3000	4350	DN 100	2"	1/2"	1"	320x440	375	375	2	10	10	2100
												16	14	



The air tank is one of the main products that balances the pressure fluctuations at the compressor outlet. Provides air pressure at constant pressure. Stores the amount of air required to meet sudden air demands exceeding the compressor capacity.

The capacity of the air tank is determined depending on the compressor capacity and the shape of the air demand. Air tanks should be installed where the ambient temperature is low. The place where the tank is located in a moist and corrosionable place should be produced by increasing the strength by removing the double layer primer.

Air tanks are manufactured in such a way that they can be fitted with the necessary accessories.

For example;

- Safety valve
- Drain valve
- Manometer



Our air tanks are produced in 10-16-20 and 40 bars. Custom designs can be produced.



Ekin is aware that the progress in its sector is possible through continuous development and learning.

Ekin Academy, established with this awareness, aims to provide high-quality and sustainable development with its modern education methods, to provide successful employees and to provide value to the society through social responsibility projects.

Training and development programs that will make a direct contribution to the results of our employees' work processes and which will make a difference in their personal development are prepared by Ekin Academy.

For our business partners and customers, our training modules prepared by our expert staff provide training support for pre-sales and post-sales issues such as commissioning, operation, maintenance and repair of our products.

In cooperation with universities within the scope of corporate social responsibility projects, we are experiencing the happiness of adding value to the society by allowing the engineer candidate, who aims to take place in the fields where Ekin is active, to meet with the sector and to experience the theoretical knowledge acquired in the fields of application.

### In-Company Trainings

Ekin Academy conducts technical, leadership, strategy development, sales and training and development programs for different tasks in the fields of heat transfer, pressure vessels, package systems, food systems and liquid transfer.



### Out-of-Company Trainings

We are realizing conferences and training activities to our business partners, professional groups and institutions where we carry out social responsibility projects in various locations of Turkey.



## SALES TEAM

At Ekin, we produce a proactive solution by our engineering staff who are specialized in their field. Our team, which works with the aim of unconditional customer satisfaction, works selflessly in order to gain customer loyalty by raising the bar of success in products, services and processes.

We are happy to share our accumulated knowledge with our valued customers. Ekin will continue to be the best solution partner for you in all applications with all kinds of heating and cooling applications.



### **Customer Satisfaction**

Customer rights are protected in all circumstances.



### **Privacy Policy**

Aware of the importance of protecting personal information, personal information is not shared with third parties.



### **Information Security**

The requirements of ISO 27001 information security management system are fulfilled at Ekin.



### **Ethical Values**

In all our business relations, our principle of mutual benefit by adhering to laws and ethics is our principle.








### AT TİP İNCELEME SERTİFİKASI / EC TYPE EXAMINATION

**Holder Of Certificate (Sertifika Sahibi) :** EKIN ENDÜSTRİYEL İSITMA SOĞUTMA SAN. TİC LTD. ŞTİ

**Company Address (Firma Adresi) :** Esenler M.Em. San. San. St. 107. Sok. Akatlar C.B 14Blok 2A 4 Çarşıya/İstanbul

**Production Address (Üretim Adresi) :** Barış Mah. Tütülek Yolu Anadol Cad.No 23 Gedizli/Kocaeli /Türkiye

**Trade Mark (Ticari Marka) :** MIT

**Product (Ürün) :** Kapalı Genleşme Tankı / Closed Expansion Vessel

**Modeller (Modeller) :** EK1 (Liste / They have shown in the attached list)

The technical documentation review and evaluation of the product(s) was done for above described product(s) according to 97/23/EC Pressure Equipment Directive Annex B / Modül B EC Type Examination of the machinery whose information given above and it was found suitable for conditions of Technical Regulations/Harmonized Standards / Yukarıda listelenen şartlar altında üretilen ürünün teknik dokümanlarının incelenmesi ve Ürün(Ürünleri) Değerlendirilmesi 97/23/AT Basınç Ekipmanları Yönetmeliğinin EK B Modül B AT Tip İncelemesi (B2)ni kapsamında gerçekleştirildiği ve Teknik Düzenleme/Ürünleştirilme Standartı parçalarına uygun olduğu tespit edilmiştir.

For affixing the Notified Body number with CE mark , company has to carry out one of the modules mentioned in 97/23/EC Pressure Equipment Directive Annex B / Kurulduğu CE İşareti ile birlikte Ürün(Ürünleri) Kuruluş Kıtak numarasını (yönetmeliğin için 97/23/AT Basınç Ekipmanları Yönetmeliği EK B'de belirtilen gösterim modüllerinden birini uygulaması gerekmektedir)

Sertifika No / Certificate No : 965-021-00-TR-PEE-14-052

Rapor Numarası / Report No : R-965-PEE-001

Sertifika Tarihi / Certificate Date : 18.11.2015

Geçerlilik Tarihi / Expiry Date : 18.11.2025

Yer / Place : İSTANBUL

  
**Ekim ÖZKARIS**  
 General Manager / Genel Müdür

Manufacturer will inform TCS International Certification about every modification that can affect safety of equipments / İnceleme Kurumu üreticinin her türlü değişiklikten dolayı ekipmanların güvenliğini etkileyebilecek her türlü değişiklikten haberdar olacaktır.  
 HAN-0100-00-11-2024/002



**TÜRK STANDARDLARI ENSTİTÜSÜ**  
**TÜRK STANDARDLARINA UYGUNLUK BELGESİ**  
**TURKISH STANDARDS INSTITUTION**  
**CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS**



<b>BELGE NUMARASI</b> REFERENCE NUMBER OF LICENCE	011181-TSE/02/01
<b>BELGENİN İLK VERİLİŞ TARİHİ</b> DATE OF FIRST ISSUE OF LICENCE	07.06.2018
<b>BELGENİN SON GEÇERLİLİK TARİHİ</b> LICENCE VALID UNTIL	07.06.2019
<b>BELGE SAHİBİ KURULUŞUN ADI</b> NAME OF THE LICENCE HOLDER	EKIN ENDÜSTRİYEL İSITMA SOĞUTMA SAN. VE TİC. LTD. ŞTİ.
<b>BELGE SAHİBİ KURULUŞUN ADRESİ</b> ADDRESS OF THE LICENCE HOLDER	DUDULLU OSB MAH. DES SANAYİ SİT. B14 BLOK 107. SOK. NO:2-4-6-8 ÜMRANİYE İSTANBUL/TÜRKİYE
<b>ÜRETİM YERİ ADI</b> NAME OF THE MANUFACTURING PLACE	EKIN ENDÜSTRİYEL İSITMA SOĞUTMA SAN. VE TİC. LTD. ŞTİ.
<b>ÜRETİM YERİ ADRESİ</b> ADDRESS OF THE MANUFACTURING PLACE	DUDULLU OSB MAH. DES SANAYİ SİT. B14 BLOK 107. SOK. NO:2-4-6-8 ÜMRANİYE İSTANBUL/TÜRKİYE
<b>İPTAL EDİLEN BELGE NUMARASI (Varsa)</b> INDICATION OF SUPERSEDED LICENCE (if any)	
<b>TESCİLLİ TİCARİ MARKASI</b> REGISTERED TRADE MARK	MIT
<b>İLGİLİ TÜRK STANDARTI</b> RELATED TURKISH STANDARD	TS EN 13831 / Su tesisatları için diyaframlı kapalı genleşme tankları / 09.11.2010
<b>BELGE KAPSAMI</b> SCOPE OF LICENCE	

MIT TİCARİ MODELİ, EN YÜKSEK ÇALIŞMA BASINCI 10 BAR OLAN, SU TESİSATLARI İÇİN DİYAFRAMLİ KAPALI GENLEŞME TANKI

08.06.2018  
Belgelendirme Merkezi Başkanı Adına  
**ÖMER FARUK DUMAN**  
SAKARYA BELGELENDİRME MÜDÜRÜ

Bu belge belgelendirilen ürünün, belirli yerleri, Emisyonlu birleştirici parçaları içerdiğini gösterir.  
 Bu belge hiç bir şekilde telif edilmez, kopyalanır veya okunamaz. Zarfın açılması, kopyalanması, değiştirilmesi, satılması veya başka amaçlarla kullanılması yasaktır.  
 TSE SAKARYA BELGELENDİRME MÜDÜRLÜĞÜ / Adres: 1. Organize Sanayi Bölgesi Doğu Kapısı, 38112 Zeytinli Oba Yurdu Cad. Hanlı / ADAPAZARI / Tel: 2643912075  
 Faks: 2642912978  
 TSE BELGELENDİRME MERKEZİ BAŞKANLIĞI / Adres: Necatibeyi Cad. No:112 06100 Sakarya/ANKARA - Tel: 0 312 416 64 61 / 416 64 27, Faks: 0 312 416 66 17  
 e-posta: tmb@tse.org.tr, web: www.tse.org.tr

<http://evakkontrol.net.org.tr/BelgeDetaylari.aspx?ym=246649> adresinden belgenin doğruluğunu ve geçerliliğini sorgulayınız.

## Certificate of Registration

### CERTIFICATE OF CONFORMITY

TECHNICAL FILE/TEKNİK DOSYA UYGUNLUK SERTİFİKASI

Certificate No: PC-1066



to the Manufacturer / aşağıdaki üretici için:

**EKIN ENDÜSTRİYEL İSITMA SOĞUTMA SAN. VE TİC.LTD.ŞTİ.**

Muhür No: 965-021-00-TR-PEE-14-052

Product and designation of type / Ürün ve belirtilen tipin:

Air Separator/Hava Ayırıcı / MIT Brand/MIT Markalı

HA20, HA25, HA32, HA40, HA50, HA65, HA80, HA100, HA125, HA150, HA200, HA250, HA300, HA350, HA400

The products is covered by the following EU-Directive / Ürünler aşağıdaki yönetmelik kapsamındadır:

2014/68/EU Pressure Equipment Directive (PED)

Observing all EU Directives for the product, the CE mark can be available on the products / Ürünler tüm EU Direktifleri için, ürünler üzerinde CE işareti kullanılabilir.

This certificate covers the above product... Does not cover all products produced, covers the above products / Bu sertifika yukarıdaki ürünü kapsamaktadır, Ürünler tüm Ürünleri kapsamaz, yukarıdaki ürünleri kapsamaz.

Certificate Date / Sertifika Tarihi:


Date of Initial Registration / İlk Belgelendirme Kayıt Tarihi : November 26<sup>th</sup>, 2015 / 26 Kasım 2015

Date of Last Issue / Yayımla Tarihi : March 23<sup>rd</sup>, 2018 / 23 Mart 2018

Date of Expiry / Geçerlilik Bitimi : March 23<sup>rd</sup>, 2019 / 23 Mart 2019




Signed / İmzalı:   
 İMÜ, Belgelendirme Merkezi International Inspection Co., Ltd.  
 No:362/58 52000  
 www.belgelendirme.com.tr  
 Certificates.aspx www.info@belgelendirme.com.tr www.istanbul.belgelendirme.com.tr  
 Akademi OSAS ISO/IEC 19001:2015 Accredited  
 TSE T.C. SAKARYA BELGELENDİRME MÜDÜRLÜĞÜ



### WELDING PROCEDURE QUALIFICATION RECORD (PQR)

(Section IX, ASME Boiler and Pressure Vessel Code)

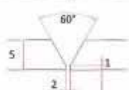
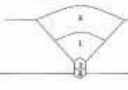
CERTIFICATE 09-702-01-C-10-2017-211402991

Procedure Qualification Record No: wPQR-43-BW-01

Company Name : Ekin Endüstriyel Isıtma Soğutma San. Tic. Ltd. Şti. Address : DES Sanayi Sitesi 107.Sok. B14 Blok No:2-4-6-8 Ümraniye/İST

Welding Process(es) : GTAW Type(s) : Manual

JOINTS (QW-402) : Groove Bevels of Test Coupon

<b>BASE METALS (QW-403)</b>		<b>POSTWELD HEAT TREATMENT (QW-407)</b>	
Material Spec.	ASTM 316 (2205)M27-22-2	Temperature:	
Type or Grade, or UNS Number	6/1 80 8/1	Time:	
P. No./Ürün No.	5	Other:	
Thickness of Test Coupon	N/A	<b>GAS (QW-408)</b>	
Diameter of Test Coupon	No pass over 13mm	Shielding - GTAW	Ar
Other:		Shielding - FCW	Ar
		Flow Rate	6-9 l/min
		Current	DC
		Other:	
<b>FILLER METALS (QW-404)</b>		<b>ELECTRICAL CHARACTERISTICS (QW-409)</b>	
SFA Specification	ER 308 L	Current	DC
AWS Classification	ER 308 L	Polarity	EN
Trade Name	5	Amps.	95-110
Filler Metal P-No.	5	Volts	19-17
Weld Metal Analysis A-No.	2	Tungsten Electrode Size	2
Size of Filler Metal	Solid Rod	Heat Input	0.63-1.75 kJ/mm
Filler Metal Product Form	N/A	Mode of Metal Transfer for GMAW (FCW)	N/A
Supplemental Filler Metal	5	Other:	
Weld Metal Thickness	N/A	<b>TECHNIQUE (QW-410)</b>	
Flux Type	N/A	Travel Speed (mm)	See below table
Flux Trade Name	N/A	String or Wave Bead	String Bead
Other:(QW-404.14)	N/A	Oscillation	N/A
<b>POSITION (QW-405)</b>		Multi/ Single Pass (per side)	Multi Pass
Position of Groove	IG	Single or Multiple Electrodes	Single
Weld Progression (Up/HiL, Down/HiL)	N/A	Initial and Interpass Clearing	Grinding and Brushing
Other		Method of Back Chipping	Grinding
		Other:(QW-410.11 / QW-410.04)	

Weld	Process	Filler Metal		Tungsten		Welding (H)	Travel Speed (mm/min)	Heat Input (kJ/cm)
		Class	Øs. (mm)	Type / Polarity	Amps Range (A)			
1	GTAW	ER 308 L	2	DC EN	205-110	19-17	3.87	0.63-0.72
2	GTAW	ER 308 L	2	DC EN	205-110	19-17	3.76	0.61-0.69
3	GTAW	ER 308 L	2	DC EN	205-110	19-17	3.77	0.61-0.71
4	GTAW	ER 308 L	2	DC EN	95-100	30-31	0.6	1.19-1.17

TÜV TüRK Kontrol ve Belgelendirme A.Ş.  
 Akademi Cad. Paşa 58. Katlı Plaza No: 2-4 Kat, Etiler/Beşiktaş, İstanbul-TÜRKİYE  
 Telefon: +90 212 235 20 42 Faks: +90 212 295 58 44 E-mail: tuv.turk@tuv-turk.com

**TÜRK STANDARLARI ENSTİTÜSÜ**  
**TÜRK STANDARLARINA UYGUNLUK BELGESİ**  
**TURKISH STANDARDS INSTITUTION**  
**CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS**

Markanın Tanımı / Description of the Mark  
**TSE** **TSE** **TSE**

**BELGE NUMARASI** / PERFORMANCE NUMBER OF LICENSE: 211181-TSE-01401  
**BELGENİN İLK YERLİŞİ TARİHİ** / DATE OF FIRST ISSUE OF LICENSE: 14.12.2016  
**BELGENİN SON GEÇERLİLİK TARİHİ** / LICENSE VALID UNTIL: 14.12.2018  
**BELGE SAHİBİ KURULUŞUN ADI** / NAME OF THE LICENSE HOLDER: EKİN ENDÜSTRİYEL ISITMA SOĞUTMA SAN. VE TİC. LTD. ŞTİ.  
**BELGE SAHİBİ KURULUŞUN ADRESİ** / ADDRESS OF THE LICENSE HOLDER: DUDULLU ÖSS MAH. DES-107 SK. NO:2 ÜMRANİYE İSTANBUL/TÜRKİYE  
**ÜRETİM YERİ ADI** / NAME OF THE MANUFACTURING PLACE: EKİN ENDÜSTRİYEL ISITMA SOĞUTMA SAN. VE TİC. LTD. ŞTİ.  
**ÜRETİM YERİ ADRESİ** / ADDRESS OF THE MANUFACTURING PLACE: DUDULLU ÖSS MAH. DES-107 SK. NO:2 ÜMRANİYE İSTANBUL/TÜRKİYE  
**İPTAL EDİLEN BELGE NUMARASI (Varlık)** / INDICATION OF SUPERSEDED LICENSE (if any):  
**TEKİLLİ TİCARİ MARKASI** / REGISTERED TRADE MARK: MT + Sani  
**İLGLİ TÜRK STANDARLARI** / RELATED TURKISH STANDARDS: TS 736 / Soak su hazırlayıcılar (Beyzeler) - Soak su kapları ve veya buharlı su jeli / 02.04.2018  
**BELGE KAPSAMI** / SCOPE OF LICENSE: Soak su hazırlayıcılar (Beyzeler) / Sınıf 1 / Plastik aletler / Tür 1 / Soak su ile doldurulabilir / Tür 3 / Buhar (ısıtma amaçlı) ile doldurulabilir / Düşük 2 / Düşük yoğunlukta kullanılmayan (Ply II) / Kuvvetlenebilir / Kurumun "T" (Kuruluş Kurulum Etme Kayıtları)

01.12.2017  
VOLKAN DÜLGER  
MAKİNA SEKTÖRÜ MÜDÜRÜ

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İNTERSİSTEM TEKNİK BELGELENDİRME tarafından değerlendirilip ve uygunlukta olduğu İçerdiği Yönetim Sistemleri  
is audited by INTERSYSTEM TECHNİK BELGELENDİRME Certification and audit Energy Management System based on the requirements of  
**ISO 50001:2018**  
kuruluşuna aşağıdaki kapsamda onayla olduğu gözlemlenmiştir / assessed for the following activities:  
PLAKALI EŞANJÖR, AKÜMÜLASYON TANKI, BOYLER, LEHMLİ EŞANJÖR, BORKULU EŞANJÖR, GÖZLEME TANKI, ISI İSTASYONU, DÖNME TANKI, TORTU TUTUCU, HAVA AYIRICI, BUFFER TANKI, PAKET SİSTEM, POMPA, SOĞUTMA KULESİ, ÇİLLER, SOĞUTMA GRUBU, KAZAN, DEFLÖZÖR, BLOWER, BATERAY, ISI DEĞİŞTİRİCİ RADYATÖR, EKONOMİZER, SERPANTİN, VANA, UHT, ÇİP VE PASTÖRİZATÖR ÜRETİMİ VE SATIŞI  
MANUFACTURING AND SERVICE OF PLATE HEAT EXCHANGER, ACCUMULATION TANK, HEAT EXCHANGER TANK, WATER STORAGE TANK, WATER HEATER TANK, BLENDING HEAT EXCHANGER, BLEND AND TREATMENT EXCHANGER, EMPISSOR TANK, SUBSTITUTION TANK, ZONE BUFFER TANK, ZONE BUFFER TANK, AIR CONDITIONER, BUFFER TANK, COMBUSTION CHIMNEY, COOLING TOWER, CHILLER, COOLING GROUP, AIRPANEL, BLOWER, COAL BURNER, INVERTER, DECONDENSER AND SUPPLYING, VALVE, JAMT, ÇİP AND PASTEURIZER

Sertifika No / Certificate No: **EnMS-0009-13001066-T8**

01.11.2018 Sertifika Tarihi / Certificate Date	01.11.2020 Sertifika Son Tazminat Tarihi / Certificate Validity End Date
01.11.2018 Belgeleme Periyodu, Belge Tarihi / Certification Period, Certificate Issue Date	03.11.2019 Sertifika Geçerlilik Tarihi / Certificate Validity Date

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**Certificate of Registration**  
**CERTIFICATE OF CONFORMITY**  
TEKNİK FILE-TEKNIK DOSYA UYGUNLUK SERTİFİKASI  
Certificate No: **PG-1059**

**CE**

to the Manufacturer / eşya/ürün üretici için:

**EKİN ENDÜSTRİYEL ISITMA SOĞUTMA SAN. VE TİC. LTD. ŞTİ.**  
Makina Cad. 285 Sarıyer Sitesi 1317, Sokak B. 14 Blok No:2/A 4 Ümraniye / İstanbul / TÜRKİYE

Product and designation of type / Ürün ve çeşitimi için:  
Balance Tanks,Orange Turbines / MIT Branded MIT Markalı

**BALANCE TANKI/DÖNME KABİ** / DK25 (0-25 KW), DK32 (25-43 KW), DK40 (43-61 KW),DK50 (50-72 KW), DK60 (72-93 KW), DK80 (93-243 KW), DK100 (93-195 KW), DK125 (195-300 KW), DK150 (300-1750 KW), DK200 (1750-3500 KW), DK250 (3500-5000 KW), DK300 (5000-5000 KW), DK350 (5000-6000 KW), DK400 (6000-8000 KW), DK450 (8000-10000 KW), DK1000 (10000-16000 KW)  
**PAKET BALANCE TANKI / PAKET DÖNME KABİ** / PK215 (0-25 KW), PK320 (25-43 KW), PK340 (43-60 KW), PK420 (60-120 KW), PK480 (120-330 KW), PK540 (330-530 KW), PK600 (530-580 KW), PK620 (580-960 KW), PK640 (960-1750 KW), PK6200 (1750-3500 KW), PK6250 (3500-5000 KW), PK6300 (5000-6000 KW), PK6380 (5000-6000 KW), PK6400 (6000-8000 KW), PK6500 (8000-10000 KW), PK63000 (10000-16000 KW)

The products is covered by the following EU-Directive / Ürünler aşağıdaki yönetmelik kapsamında değerlendirilmiştir:  
2014/68/EU Pressure Equipment Directive (PED) / Basınç Ekipmanları Yönetmeliği

This certificate covers the above product. Does not cover all products produced, covers the above products. / Bu sertifika sadece yukarıdaki ekipmanları kapsamaktadır. Sadece yukarıdaki ekipmanlar, değerlendirilmiştir.

Certificate Date / Sertifika Tarihi:  
Date of Initial Registration / İlk Belgelendirme Tarihi: / November 29<sup>th</sup>, 2018 / 29 Kasım 2018  
Date of Last Renewal / Son Tazminat Tarihi: / November 09<sup>th</sup>, 2019 / 9 Kasım 2019  
Date of Expiry / Geçerlilik Bitiş Tarihi: / November 29<sup>th</sup>, 2023 / 29 Kasım 2023

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İNTERSİSTEM TEKNİK BELGELENDİRME tarafından değerlendirilip ve uygunlukta olduğu İçerdiği Yönetim Sistemleri  
is audited by INTERSYSTEM TECHNİK BELGELENDİRME Certification and audit Occupational Safety Management System based on the requirements of  
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MANUFACTURING AND SERVICE OF PLATE HEAT EXCHANGER, ACCUMULATION TANK, HEAT EXCHANGER TANK, WATER STORAGE TANK, BLENDING HEAT EXCHANGER, BLEND AND TREATMENT EXCHANGER, EMPISSOR TANK, SUBSTITUTION TANK, ZONE BUFFER TANK, ZONE BUFFER TANK, AIR CONDITIONER, BUFFER TANK, COMBUSTION CHIMNEY, COOLING TOWER, CHILLER, COOLING GROUP, AIRPANEL, BLOWER, COAL BURNER, INVERTER, DECONDENSER AND SUPPLYING, VALVE, JAMT, ÇİP AND PASTEURIZER

Sertifika No / Certificate No: **OH-0096-13001066-T8**

11.10.2017 Sertifika Tarihi / Certificate Date	10.10.2020 Sertifika Geçerlilik Tarihi / Certificate Validity End Date
10.10.2020 Belgeleme Periyodu, Belge Tarihi / Certification Period, Certificate Issue Date	3 YIL Sertifika Geçerlilik Tarihi / Certificate Validity Date

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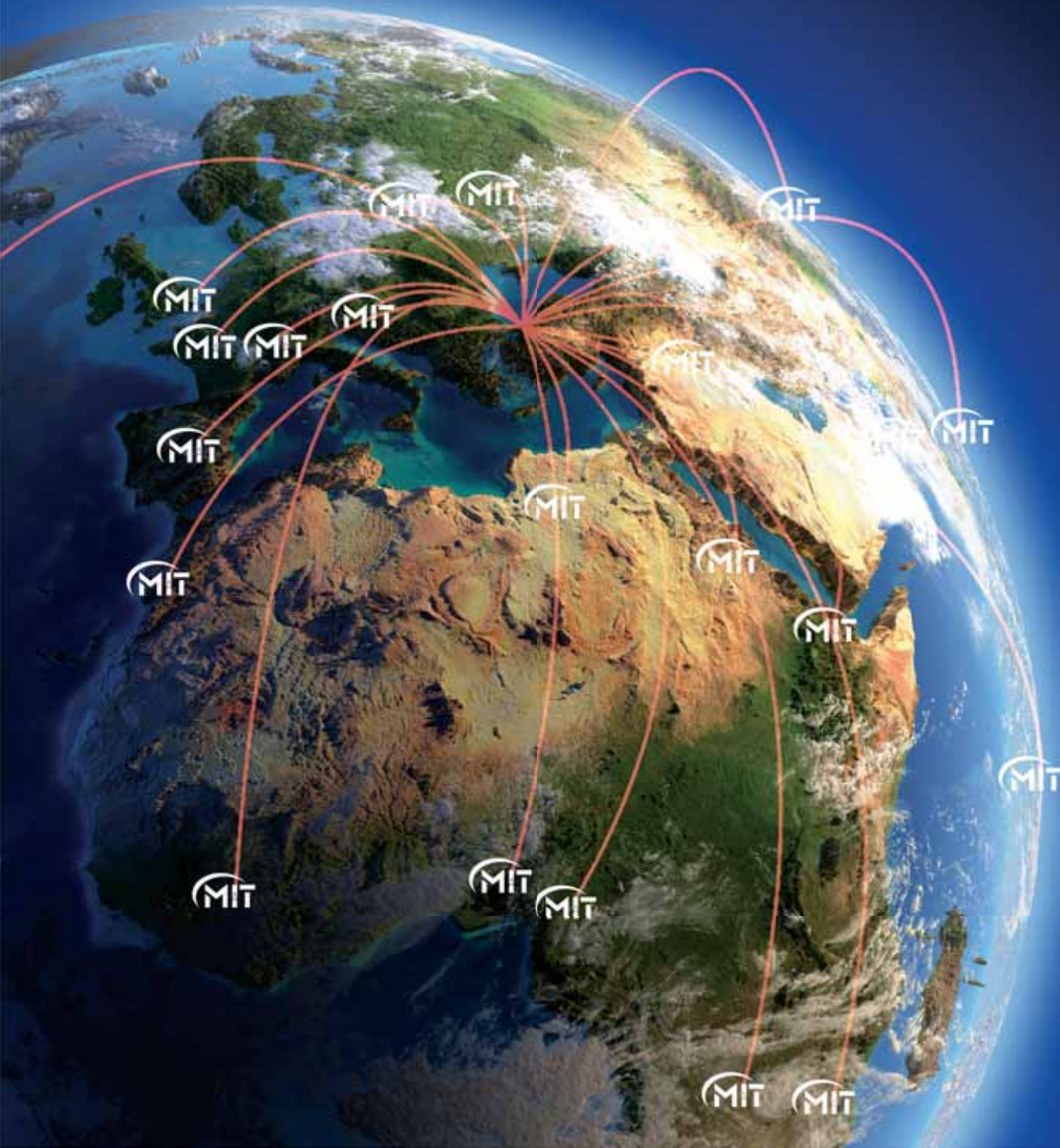
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