



EKİN ENDÜSTRİYEL

**WATER HEATER TANKS
ACCUMULATION TANKS
BUFFER TANKS
PRODUCT 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



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).

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

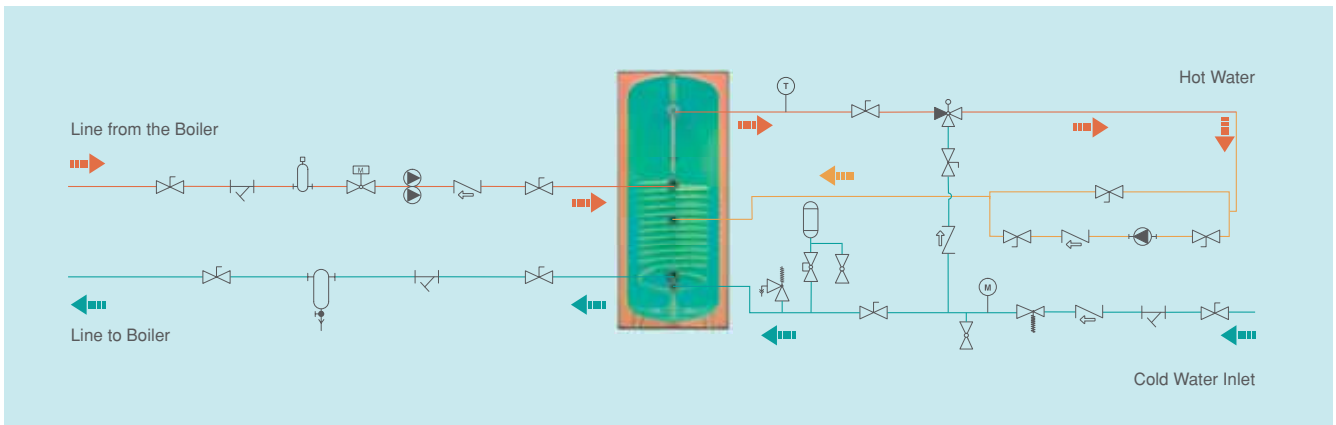


Depending on customer requirements, all capacities can be made with polyurethane insulation and electrostatic powder coating on galvanized steel sheet.



	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)

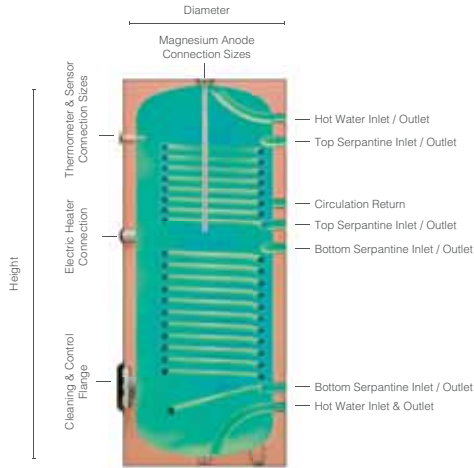
The double coil water heater tank is used to obtain hot water in two heat source systems (solid, liquid, gas fired boiler, solar energy, waste energy).

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

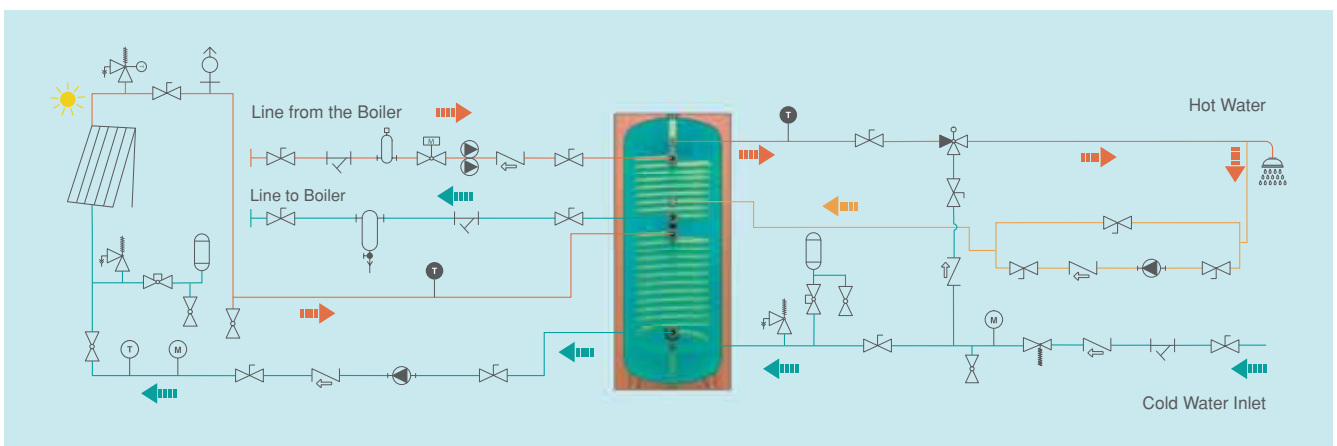


Depending on customer requirements, all capacities can be made with polyurethane insulation and electrostatic powder coating on galvanized steel sheet.



	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.

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

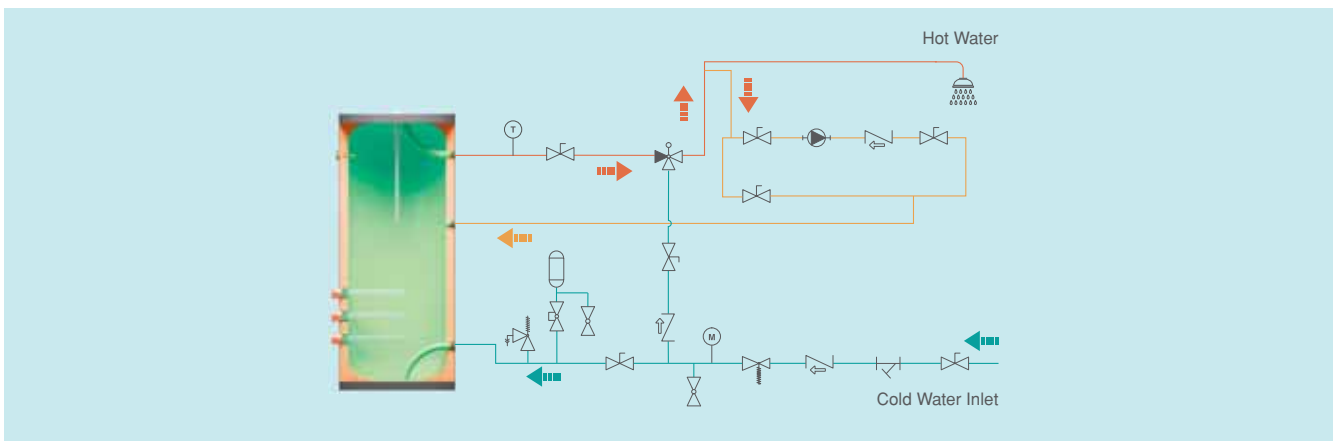


! The above values are based on 220V - 380V 50 Hz mains voltage.



	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"

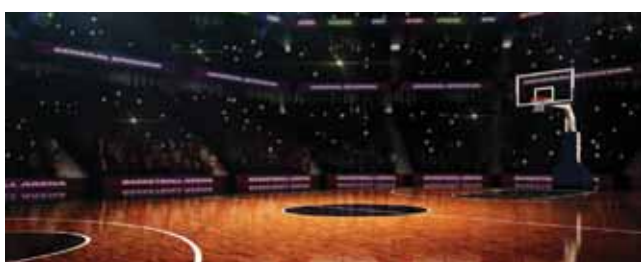
MIT Water Heater Tanks With Electrical Resistance Connection Diagram

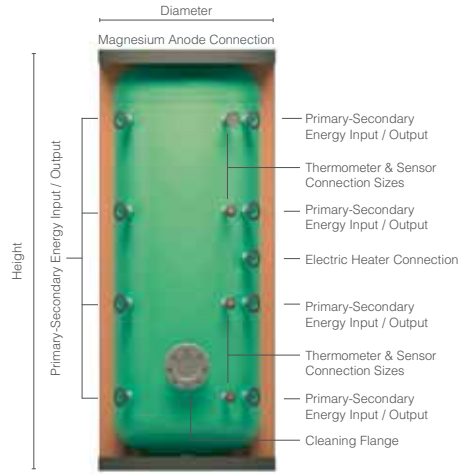


MIT ACCUMULATION TANKS (WHITE SERIES)

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

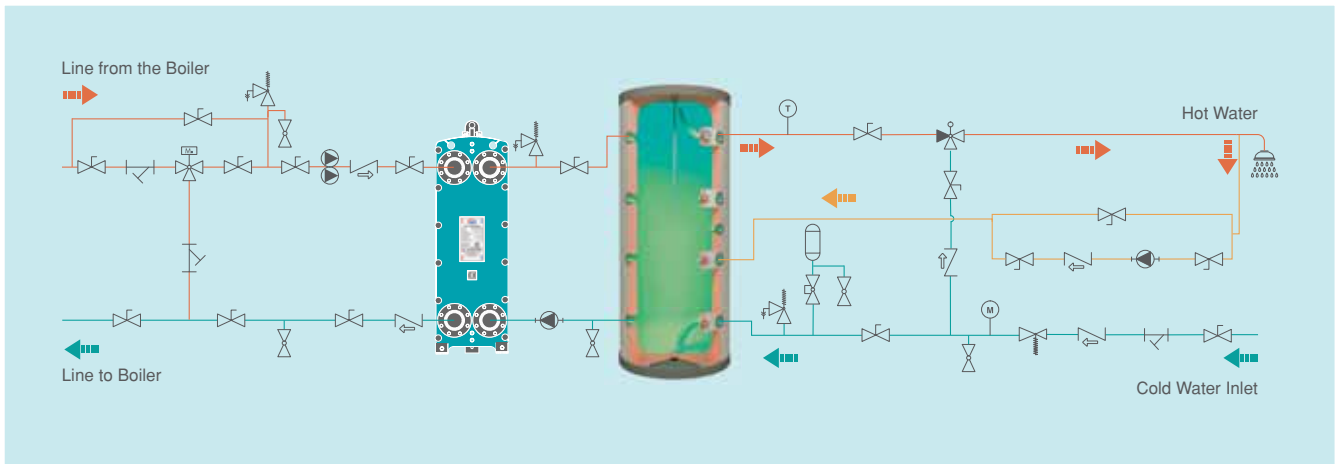
Volume	100lt – 5000lt
Maximum Working Temperature	95 °C
Body Pressure	10 Bar
Interior Surface Coating	Glasslined enamel is applied according to DIN 4753-3 standard.
Insulation 100L-500L 800L-1000L 800L-5000L 800L-5000L	Complies with EN 15332 Energy Efficiency Standard 42 kg/m ³ HCFC free water based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

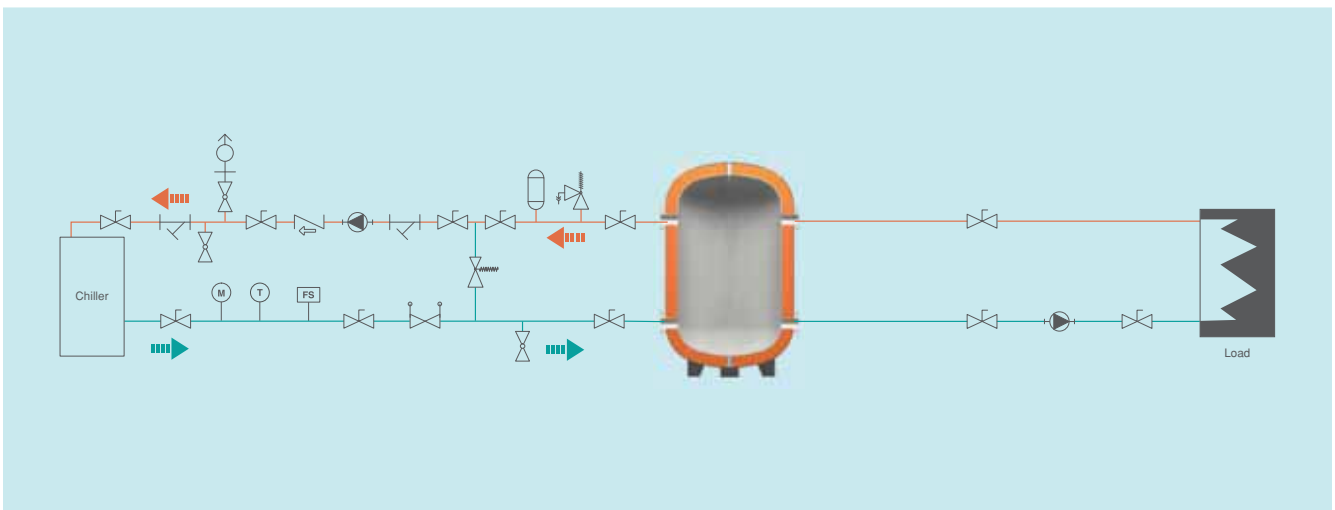
Volume	100 lt – 5000 lt (For larger pressure and volume buffer tanks can be manufactured in particular.)
Maximum Working Temperature	95 °C
Operating Pressure	6 Bar
Connection Flange / Pressure Class	DN 50 – DN 300 / PN16
Interior Surface Coating	Buffer tanks are made of high quality S235JR (TS EN 10025)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



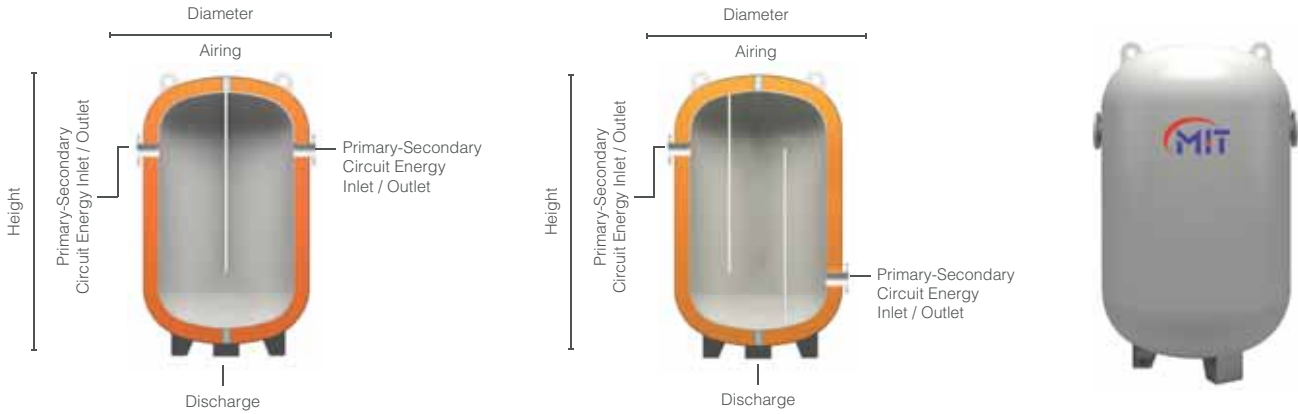
! Depending on the customer request, 800 lt to 3000 lt capacity can be made with polyurethane insulation and galvanized steel electrostatic powder coating.

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.

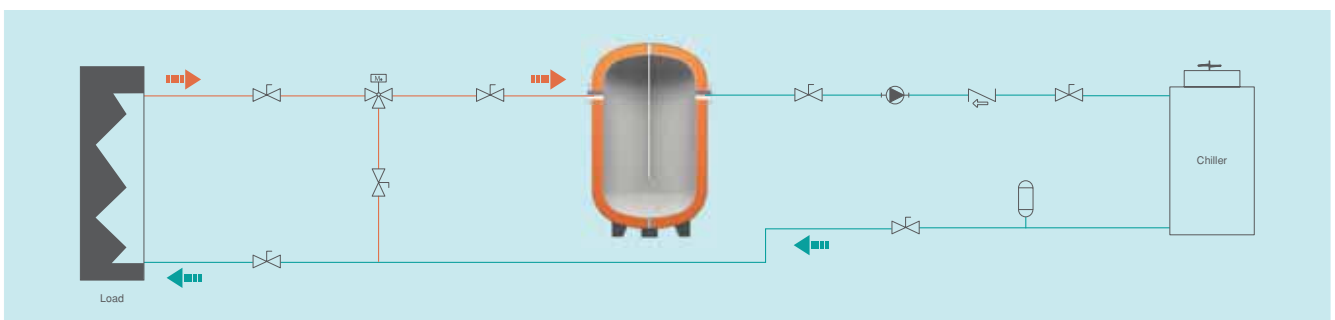
Volume	100 lt – 5000 lt (For larger pressure and volume buffer tanks can be manufactured in particular.)
Maximum Working Temperature	95 °C
Operating Pressure	6 Bar
Connection Flange / Pressure Class	DN 50 – DN 300 / PN16
Interior Surface Coating	Buffer tanks are made of high quality S235JR (TS EN 10025)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



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) : EKİN ENDÜSTRİYEL İSITMA SOĞUTMA SAN. TİC LTD. ŞTİ

Company Address (Firma Adresi) : Eskişehir M.Örs San. San. 28. 107. Sok. Akatlar C.B 14 Blok 24-A Gaziosmanpaşa/İstanbul

Production Address (Üretim Adresi) : Barış Mah. Tokatık Yolu Ambar Cad.No 23 Gedizli Köyü /Türkiye

Trade Mark (Ticaret Markası) : 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 II Modül B EC Type Examination of the company whose information given above and it was found suitable for conditions of Technical Regulations Harmonized Standards / Yukarıda listelenen ürün Kuruluşu sisteminin gerçekleştirildiği yukarıda belirtilen ürünlerin Teknik dokümanlarının incelenmesi ve Ürün/Ürünleri Değerlendirilmesi 97/23/AT Basınç Ekipmanları Yönetmeliğinin EK III Modül B AT Tip İncelemesi (Ekim) kapsamında gerçekleştirildiği ve Teknik Düzenleme/Uyumluluğunun Standartlarına 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 / Kuruluşun CE İşareti ile birlikte Onaylanmış Kuruluş Numarasını İşletim için 97/23/AT Basınç Ekipmanları Yönetmeliğinin EK IV'de belirtilen gösterim modüllerinden birini uygulaması gerekmektedir.

Sertifika No / Certificate No : 985-C21-00-TR-PEE-14-082

Rapor Numarası / Report No : R-985-PEE-001

Sertifika Tarihi / Certificate Date : 18.11.2015

Geçerlilik Tarihi / Expiry Date : 18.11.2020

Yer / Place : İSTANBUL

APPROVAL ONLY
TCS
N:2015
Ekin ÖZKARİS
General Manager / Genel Müdür

Manufacturer will inform TCS International Certification about every modification that can affect safety of equipments / Üretici TCBS Uluslararası Belgelendirme'ye her türlü yapılabildiği değişiklikleri bildirecektir.

985-0100-001-0021406





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



BELGE NUMARASI REFERENCE NUMBER OF LICENCE	011181-TSE/02/01
BELGENİN İLK VERİLİŞ TARİHİ DATE OF FIRST ISSUE OF LICENCE	07.06.2018
BELGENİN SON GEÇERLİLİK TARİHİ LICENCE VALID UNTIL	07.06.2019
BELGE SAHİBİ KURULUŞUN ADI NAME OF THE LICENCE HOLDER	EKİN ENDÜSTRİYEL İSITMA SOĞUTMA SAN. VE TİC. LTD. ŞTİ.
BELGE SAHİBİ KURULUŞUN ADRESİ ADDRESS OF THE LICENCE HOLDER	DUDULLU OSB MAH. DES SANAYİ SİT. B14 BLOK 107. SOK. NO:2-4-6-8 ÜMRANİYE İSTANBUL/TÜRKİYE
ÜRETİM YERİ ADI NAME OF THE MANUFACTURING PLACE	EKİN ENDÜSTRİYEL İSITMA SOĞUTMA SAN. VE TİC. LTD. ŞTİ.
ÜRETİM YERİ ADRESİ ADDRESS OF THE MANUFACTURING PLACE	DUDULLU OSB MAH. DES SANAYİ SİT. B14 BLOK 107. SOK. NO:2-4-6-8 ÜMRANİYE İSTANBUL/TÜRKİYE
İPTAL EDİLEN BELGE NUMARASI (Varsa) INDICATION OF SUPERSEDED LICENCE (if any)	
TESCİLLİ TİCARİ MARKASI REGISTERED TRADE MARK	MIT
İLGİLİ TÜRK STANDARTI RELATED TURKISH STANDARD	TS EN 13831 / Su tesisatları için diyaframlı kapalı genleşme tankları / 09.11.2010
BELGE KAPSAMI 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 yerlere Emisyonlu birleştirilmiş parçalarıyla donatılarak kullanılabilir. Bu belge hiç bir şekilde transfer edilemez, kopyalanmaz veya başka amaçla kullanılabilir, kopyalanmaz, kurtulur ve satılmaz. TSE SAKARYA BELGELENDİRME MÜDÜRLÜĞÜ Adres: 1. Organize Sanayi Bölgesi Doğu Kapısı, Sibel Ziraatçısı Oda Yürütme Cad. Harik / ADAPAZARI / Tar: 26-432925 Faks: 36-2912978 TSE BELGELENDİRME MERKEZİ BAŞKANLIĞI Adres: Necatibey Cad. No:112 08100 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



1 / 1




Certificate of Registration

CERTIFICATE OF CONFORMITY

TECHNICAL FILE-TEKNİK DOSYA UYGUNLUK SERTİFİKASI

Certificate No: PC-1066



to the Manufacturer / İşletici için:

EKİN ENDÜSTRİYEL İSITMA SOĞUTMA SAN. VE TİC.LTD.ŞTİ.

Address: DES Sanayi Sitesi 107.Sok. B14 Blok No:2-4-6-8 Ümraniye/İST

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 EUBD'leri kapsadığı için, ürünler üzerinde CE İşareti kullanılabilir.

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


Certificate Date / Sertifika Tarihi:
Date of Initial Registration / İlk Belgelendirme Kayıt Tarihi : November 26th, 2015 / 26 Kasım 2015
Date of Last Issue / Yayımlanma Tarihi : March 23rd, 2018 / 23 Mart 2018
Date of Expiry / Geçerlilik Bitimi : March 23rd, 2019 / 23 Mart 2019

Signed / İmzalı:




ISO 9001:2015 Certified International Inspection Co., Ltd.
No:29/2 58. 52200
www.belgelendirme.com.tr
Certification Agency www.belgelendirme.com.tr / International before company

Akademi OSAS SÖZLEŞME NO:2015-0022 Adres: 085

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) General Design of Test Coupon



BASE METALS (QW-403)		POSTWELD HEAT TREATMENT (QW-407)	
Material Spec.	ASTM 316 (22CrNiMo) (2-2-2)	Temperature:	
Type or Grade, or UNS Number	316	Time:	
P. No./P-No.	6/1 80 8/1	Other:	
Thickness of Test Coupon	5		
Diameter of Test Coupon	N/A	GAS (QW-408) Percent Composition	
Max. Pass Thickness (≤ 13 mm)	No pass over 13mm	Shielding - GTAW	Argon
Other:		Shielding - FCAW	
		Flow Rate	6-8 l/min
FILLER METALS (QW-404)		ELECTRICAL CHARACTERISTICS (QW-409)	
SFA Specification	GTAW / N/A	Current	DC
AWS Classification	E308L	Polarity	EN
Trade Name	E308L	Amps.	95-110
Filler Metal P-No.	6	Volts	19-17
Weld Metal Analysis A-No.	1	Tungsten Electrode Size	2
Size of Filler Metal	2	Heat Input	0.83-1.75 kJ/mm
Filler Metal Product Form	Solid Rod	Mode of Metal Transfer for GTAW (FCAW)	N/A
Supplemental Filler Metal	N/A	Other (QW-410.1) / QW-410.4	
Weld Metal Thickness	5		
Flux Type	N/A		
Flux Trade Name	N/A		
Other (QW-404.14)	N/A		
POSITION (QW-405)		TECHNIQUE (QW-410)	
Position of Groove	1G	Travel Speed (mm)	See below table
Weld Progression (Up/Down)	N/A	String or Weave Bead	String Bead
Other		Oscillation	N/A
		Multi/ Single Pass (per side)	Multi Pass
		Single or Multiple Electrodes	Single
		Initial and Interpass Clearing	Grinding and Brushing
		Method of Back Chipping	Grinding
		Other (QW-410.11 / QW-410.14)	

Actual Values		Tolerances	
Weld	Process	Class	Dev. / Allowance
1	GTAW	EN 308L	100-110 10-12
2	GTAW	EN 308L	95-110 10-12
3	GTAW	EN 308L	100-110 10-12
4	GTAW	EN 308L	95-110 10-12

TÜV TüRK Kontrol ve Belgelendirme A.Ş.
Akademi Cad. Paşa 58. Katlı Plaza No: 2-4 Kat, Etiler/Beşiktaş, İstanbul-TÜRKİYE
Tel: +90 212 235 20 42 Fax: +90 212 295 58 44 E-mail: tuv.tur@tuv-turkey.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 REFERENCE NUMBER OF LICENSE	211181-TSE-01401
BELGENİN İLK YERLİŞİ TARİHİ DATE OF FIRST ISSUE OF LICENSE	14.12.2016
BELGENİN SON GEÇERLİLİK TARİHİ EXPIRE DATE OF LICENSE	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	DUĞUÇLU ÖZG 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	DUĞUÇLU ÖZG 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
İLKÖLÜ TÜRK STANDARTI APPLICABLE TURKISH STANDARD	TS 736 / Soak ve Nefeslenir (Beyazlar) - Soak ve Kapak su veya buhar ile yapılan / 02.04.2018
BELGE KAPSAMI SCOPE OF LICENSE	Soak (U) Hava Soğutma (Beyazlar) Sınıf 1: Pasatör ekip. Tip 1: Tak iletici (pasatörler) (Ply B). Tip 2: Soak su ile soğutma. Tip 3: Buhar (kapak suyu) ile soğutma. Düğü 2: Düşey konumda kullanıldığında (Ply B). Kullanım: Kuru Kuruma, "C" (Kuvvetli Kurutma Etnayaj Katmanları)

01.12.2017
VOLKAN DÜLGER
MAKİNA SEKTÖRÜ MÜDÜRÜ

ISQ
Certification Body

CERTIFICATE

EKİN ENDÜSTRİYEL ISITMA SOĞUTMA SAN. VE TİC. LTD. ŞTİ.
ATATÜRK CAD. DESSAN SANAYİ SİTESİ B14 BLOK 107 SK. 2/A NO:4 ÜMRANİYE / İSTANBUL / TÜRKİYE, Türkiye
İNTERSİSTEM TEKNİK BELGELENDİRME / International Certification and Audit Energy Management System based on the requirements of
İSO 50001:2018

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

02.11.2018 Sertifika Tarihi / Certificate Issue Date	02.11.2020 Sertifika Son Tazminat Tarihi / Certificate Validity End Date
02.11.2017 Belgeleme Periyodu / Belge Tarihi / Certification Period / Expiry Date	02.11.2019 Sertifika Yenileme Tarihi / Certificate Renewal Date

ONAY
APPROVAL

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

CE

to the Manufacturer / üreticiye ünitesi için:

EKİN ENDÜSTRİYEL ISITMA SOĞUTMA SAN. VE TİC.LTD.ŞTİ.
Makina Cad. 285 Sanayi Sitesi 137, Sokak B.14 Blok No:2/A Ümraniye / İstanbul / TÜRKİYE

Product and designation of type / Ürün ve ünitesi tipini:
Balance Tanks/Geçirgen Tanklar / MT Branded/MT Markalı

BALANCE TANKI/GEÇİRGEN KABİ - DK25 (0-25 KW), DK32 (25-43 KW), DK40 (43-61 KW),DK50 (50-72 KW), DK60 (72-93 KW), DK80 (93-130 KW), DK100 (130-165 KW), DK125 (165-200 KW), DK150 (200-270 KW), DK200 (270-350 KW), DK250 (350-500 KW), DK300 (500-600 KW), DK350 (600-800 KW), DK400 (800-1000 KW), DK500 (1000-1600 KW)

PACKET BALANCE TANKI / PAKET GEÇİRGEN KABİ - PK25 (0-25 KW), PK32 (25-43 KW), PK40 (43-61 KW), PK50 (61-72 KW), PK60 (72-93 KW), PK80 (93-130 KW), PK100 (130-165 KW), PK125 (165-200 KW), PK150 (200-270 KW), PK200 (270-350 KW), PK250 (350-500 KW), PK300 (500-600 KW), PK350 (600-800 KW), PK400 (800-1000 KW), PK500 (1000-1600 KW)

The products is covered by the following EU-Directive / Ürünler aşağıdaki direktifler kapsamında değerlendirilmiştir:
2014/52/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 belge yukarıdaki ürünü kapsar, üretilen tüm ürünleri kapsamaz.
Bu belge yukarıdaki ürünü kapsar, üretilen tüm ürünleri kapsamaz.

Certificate Date / Sertifika Tarihi:
Date of Initial Registration / İlk Belgeleme Tarihi: **November 29th, 2013 / 29 Kasım 2013**
Date of Last Renewal / Son Belgeleme Tarihi: **November 09th, 2018 / 9 Kasım 2018**
Date of Expiry / Belgeleme Sonu Tarihi: **November 29th, 2013 / 29 Kasım 2013**

ISQ
International Certification Co., Ltd.
www.internationalcertification.com

ISQ
Certification Body

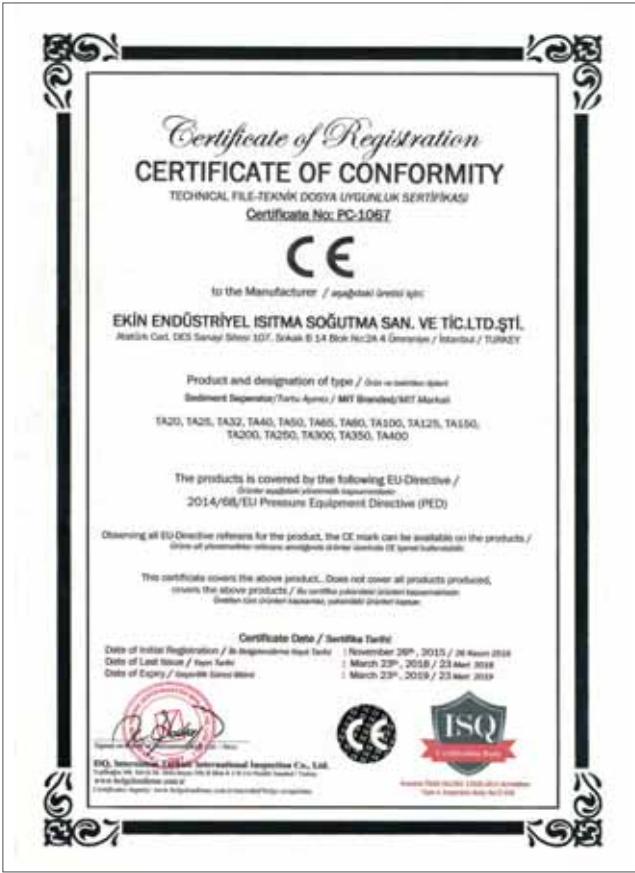
CERTIFICATE

EKİN ENDÜSTRİYEL ISITMA SOĞUTMA SAN. VE TİC. LTD. ŞTİ.
ATATÜRK CAD. DESSAN SANAYİ SİTESİ B14 BLOK 107 SK. 2/A NO:4 ÜMRANİYE / İSTANBUL / TÜRKİYE, Türkiye
İNTERSİSTEM TEKNİK BELGELENDİRME / International Certification and Audit Energy Management System based on the requirements of
İSO 50001:2018

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

11.10.2017 Sertifika Tarihi / Certificate Issue Date	10.10.2020 Sertifika Son Tazminat Tarihi / Certificate Validity End Date
10.10.2020 Belgeleme Periyodu / Belge Tarihi / Certification Period / Expiry Date	3 YIL Sertifika Yenileme Tarihi / Certificate Renewal Date

ONAY
APPROVAL



PROFESSIONAL SYSTEM SOLUTION CENTER

From our MIT professional system solution center, you can get help with problems with your pumps, heat exchangers and your system. Our solution center consisting of our expert engineers will be happy to help you.

- Domestic hot water installations.
- Central and district heating systems.
- Milk, yogurt, buttermilk heating, cooling and pasteurization systems.
- Industrial cooling and heating systems.
- Oil cooling systems.
- Energy recovery systems.
- Pool heating systems.
- Steam installations.



It is vital for your system to be designed and implemented correctly in the first installation in order to be able to operate at the desired capacity, smoothness and long life. For this reason, you can get first-hand

the technical support you need during the installation phase of your system and the problems that may arise in the business; You can reach us **24 hours +90 (216) 232 24 12 in 7 days.**



+90 850 811 04 18

We would like to reiterate that we will be happy to share our knowledge accumulated over many years with our valued customers in order for your system to work correctly and performance.

Ekin will continue to be the best solution partner for you in all applications with all kinds of heating and cooling applications.

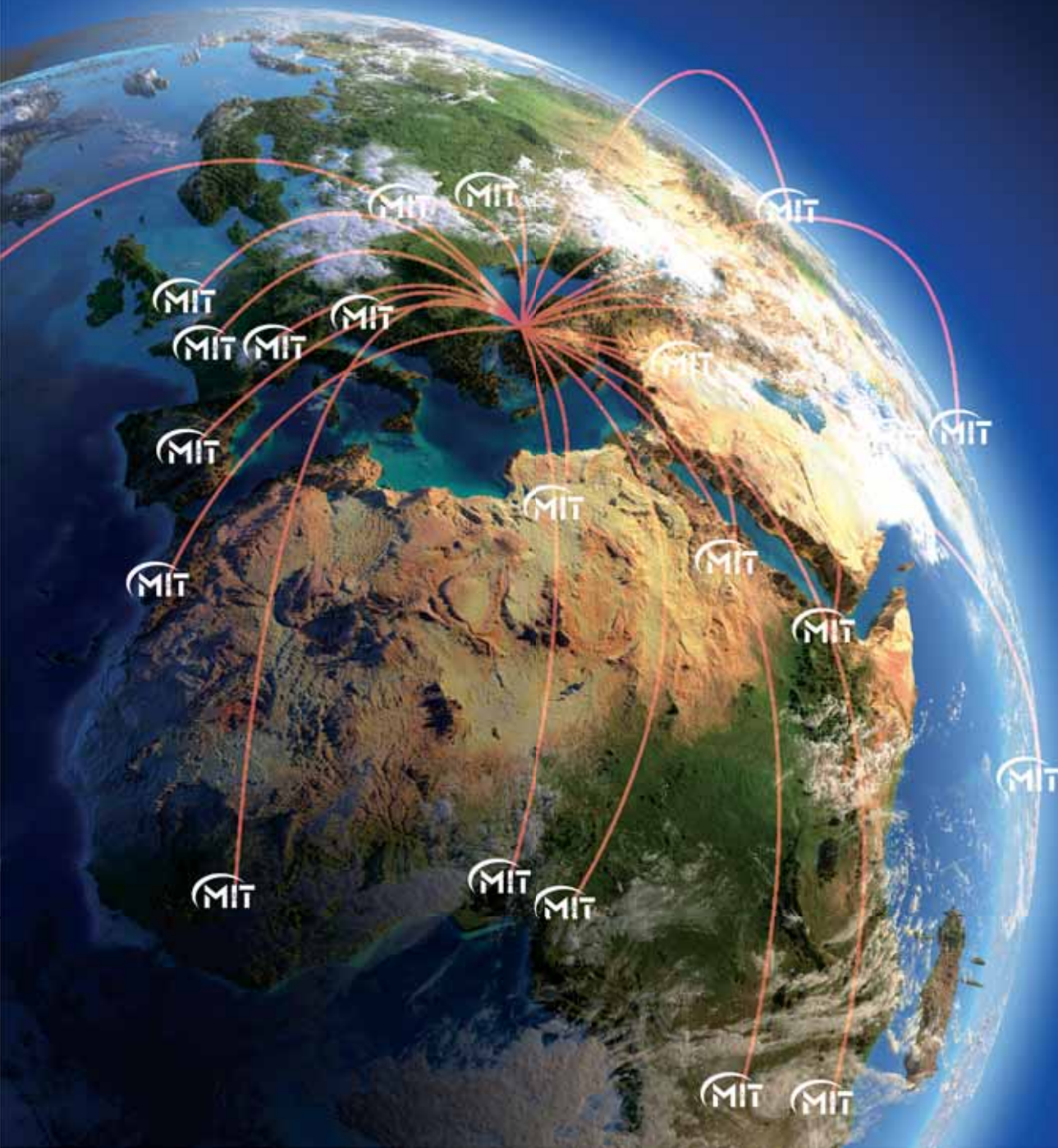


/ekinendustriyel

Follow us on
social media...



Our products are produced with Turkish engineering technology in **135 countries** in the world today...





EKİN ENDÜSTRİYEL

Isıtma-Soğutma San. Tic. Ltd. Şti.

Dudullu Organize Sanayi Bölgesi - Des Sanayi Sitesi
107. Sk. B14 Blok No: 2 Ümraniye / İstanbul / Turkey
Phone: +90 216 232 24 12 **Fax:** +90 216 660 13 08
info@ekinendustriyel.com - www.ekinendustriyel.com

444 EKİN
3546