

**EKIN ENDÜSTRİYEL**

**MIT Accumulation And Water  
Heater Tanks**



# Our Main Focus

## Heat Transfer Section

- Plate Heat Exchangers
- Brazed Heat Exchangers
- Flat Access Stations
- Shell and Tube Heat Exchangers

## Pressure Vessel Section

- Boilers
- Accumulation Tanks
- Stainless Process Tanks
- Expansion Tanks
- Balance Tanks

## Separator Vessels Section

- Balance Tanks
- Dirt Separators
- Air Separators
- Package Dirt and Air Separators
- Package Balance Dirt and Air Separators

## Liquid Transfer Section

- Rotary Lobe Pumps
- Barrel Pumps
- Mono Pumps
- Domestic Pumps
- Air Diaphragm Pumps
- Twin Screw Hygiene Pumps
- Magnetic Coupling Centrifugal Pumps
- Hygienic Centrifugal Pumps
- Peristaltic Hose Pumps
- Dosage Pumps



## Sustainable Innovation, Quality Standardization and Dynamism

Ekin Industrial has entered Turkey's sector of imported plate heat exchanger, with their customer focused vision and dynamic. Ekin has expanded into new and upcoming investments. One of the main steps was gaining the identity of being a producer. Ekin Industrial has started the production of plate heat exchangers with the brand of 'MIT'. We grew in the philosophy of quality through initially adapting to ISO Quality Management System procedures, and completed the CE security and quality certification period, and has matched foreign standards like GOST. MIT plate heat exchangers have now become a solution to engineering problems in the world market and has grown through an expansion of franchises.

## Engineering Approachments, Integrated Solutions

Ekin Industrial, with investment in MIT plate heat exchangers, their identity of producer and engineer vision is aiming to solve problems in the sector. To meet these views, Ekin Industrial has expanded into the production of components, sales and after sales service by employing expert engineers. The factors that guided Ekin Industrial 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 Industrial is an expert company which has wide product range which includes plate heat exchangers, accumulation tanks, water heater tanks, installation materials and its service group and submit competitive advantages to mechanical installation sector in Turkey and all around the World.





## MIT Accumulation Tanks and Water Heater Tanks

MIT Plat Heat Exchangers in one of Turkey's most well-known and preferred brand continues to take new steps day by day in order to ensure continuous development of the sector. With specific products produced in Turkey, Ekin Industrial is aiming to expand its product line. One of the most solid indication of the determination on this issue is that MIT accumulation Tanks and MIT water heater tanks..

From the beginning of the Ekin Industrial's first days we pursued the philosophy of "We Have a Dream"and when we began to realize that our dreams come true and we by raising the bar all the time we never gave up pursuing the dreams that we started.





## Accumulation Tanks

Accumulation tanks are used where public life is a matter of topic such as apartments, hotels, dormitories...etc. They are used with plate exchangers to obtain hot water for public usage.



### Technical Specifications

- Capacities are between 100 lt to 6000 lt ,
- Because of the surfaces which are contacted with water , covered with double emaled , our tanks are hygienic.
- The tanks from 100 lt to 600 lt have 50mm polyuretan insulation,
- The tanks from 800 lt to 6000 lt have special sponge insulation,
- The tanks from 100 lt to 600 lt have cover with galvanized electrostatic powder, however from 800lt to 6000, they have special vinlex cover,
- Cathodic protection
- High efficiency
- Electrical resistance as optional
- Esthetic appearance,
- 10 bar working pressure

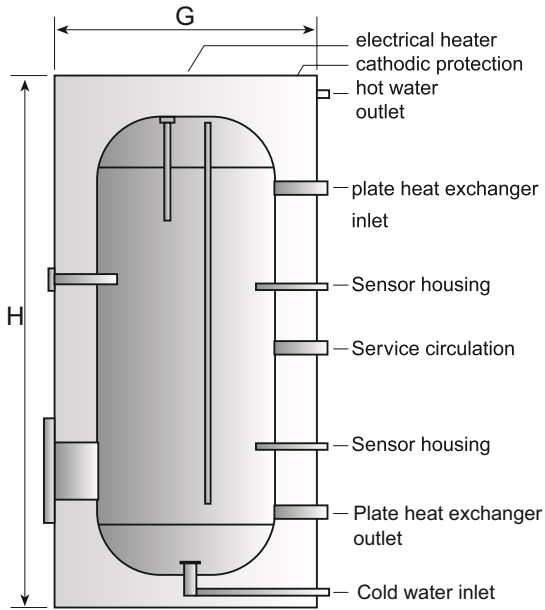
### Connection Schedule

#### Ideal water heater tank connection diagram

- 1.Safety Valve
- 2.Isolating Valve
- 3.Circulation Valve
- 4.Thermostat
- 5.Check valve
- 6.Strainer



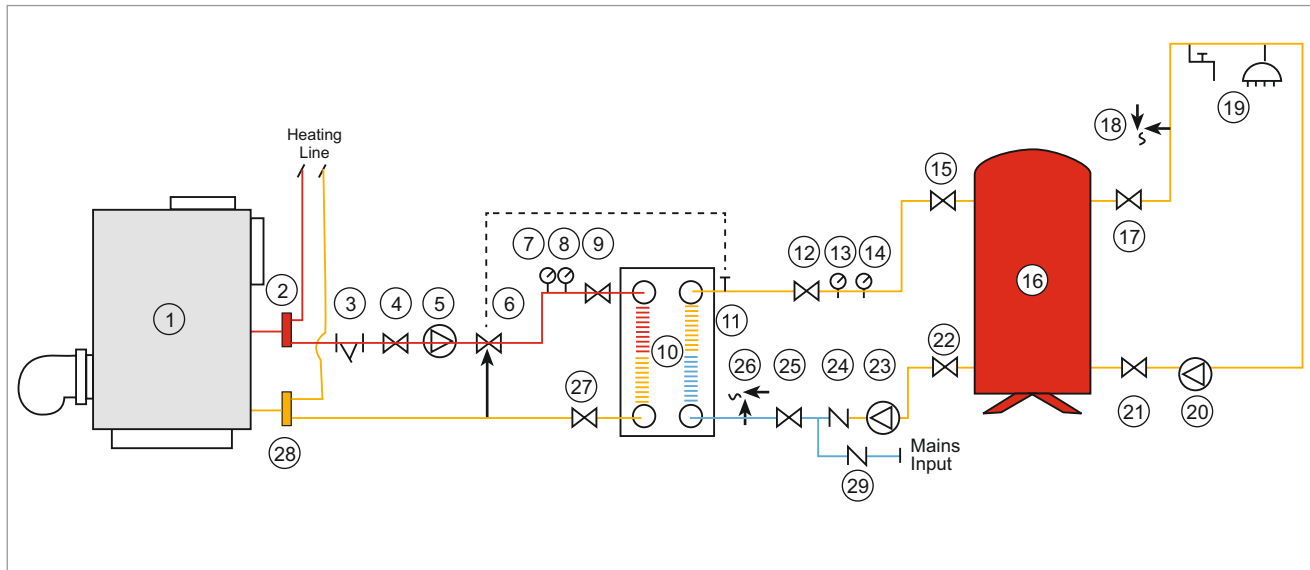
## Accumulation Tanks



Model	MIT104	MIT164	MIT204	MIT354	MIT504	MIT604	MIT804	MIT1004
Capacity(lt)	100	160	200	350	500	600	800	1000
Outside Diameter(mm)	486	586	586	756	756	756	910	1010
Height(mm)	1100	1100	1300	1320	1770	2020	2150	2180
Heater Inlet-Outlet	1"	1¼"	1¼"	1¼"	1¼"	1¼"	1½"	2"
Circulation	-	-	-	-	-	-	1¼"	1½"
Weight(kg)	62	68	82	108	143	162	235	302

Model	MIT1504	MIT2004	MIT2504	MIT3004	MIT4004	MIT5004	MIT6004
Capacity(lt)	1500	2000	2500	3000	4000	5000	6000
Outside Diameter(mm)	1120	1260	1460	1460	1660	1660	1660
Height(mm)	2470	2500	2350	2750	2480	2980	3500
Heater Inlet-Outlet	2½"	2½"	3"	3"	3"	3"	3"
Circulation	1½"	1½"	2"	2"	2"	2"	2"
Weight(kg)	350	470	540	640	950	1100	1250

## Connection Schedule



- 1. Boiler
- 2. Stream Collector
- 3. Dirt Holder
- 4. Valve
- 5. Pumps
- 6. Three Way Rational Valve
- 7. Thermometer

- 8. Manometer
- 9. Valve
- 10. Plate Heat Exchanger
- 11. Temperature Sensor
- 12. Valve
- 14. Manometer

- 15. Valve
- 16. Accumulation
- 17. Valve
- 18. Safety
- 19. Usage Areas
- 21. Valve

- 22. Valve
- 23. Pump
- 24. Check Valve
- 25. Valve
- 26. Safety Valve
- 27. Valve
- 28. Returning Collector
- 29. Check Valve

## Buffer Tank

MIT Buffer tanks are used places like ; houses, companies ,hotels ... etc.with plate heat exchangers at cooling systems to increase volume of water capacity



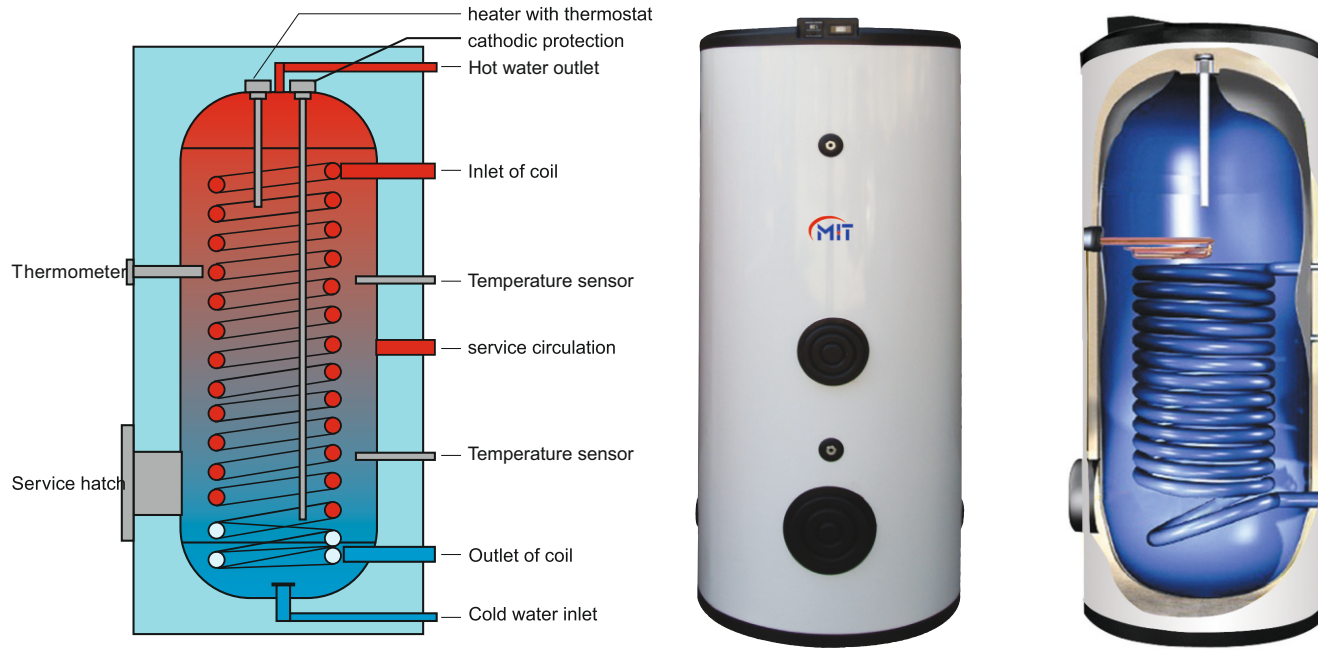
### TECHNICAL SPECIFICATIONS

- Capacities of MIT buffer tanks are from 100 lt to 6000 lt,
- There is no inner covering , mild steel execution will be used.
- Buffer tanks, from 100 lt to 600 lt, have 50mm polyuretan insulation,
- Buffer tanks, from 800 lt to 6000 lt ,have special sponge insulation,
- Buffer tanks, from 100 lt to 600 lt ,have cover with galvanized electrostatic powder,
- Buffer tanks, from 800lt to 6000, they have special vinlex cover,
- Esthetic appearance,
- 10 bar working pressure



## Single Coiled Fast Water Heater Tanks

Single Coiled Fast Water Heater Tanks is used in single heat source systems (burner or solar energy with solid/liquid/gas fuel ) to acquire hot water.



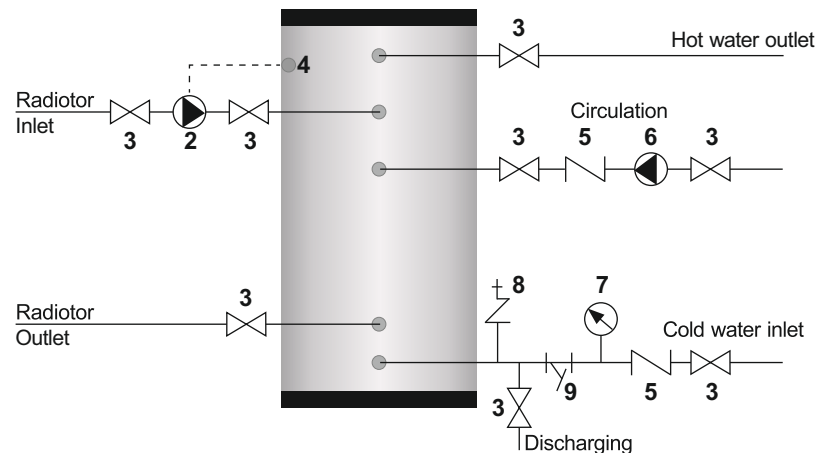
### Technical Specifications

- Capacities are between 100 lt to 6000 lt ,
- Because of the surfaces which are contacted with water , covered with double emaled , our tanks are hygienic.
- The tanks from 100 lt to 600 lt have 50mm polyuretan insulation,
- The tanks from 800 lt to 6000 lt have special sponge insulation,
- The tanks from 100 lt to 600 lt have cover with galvanized electrostatic powder, however from 800lt to 6000, they have special vinlex cover,
- Cathodic protection
- High efficiency
- Electrical resistance as optional
- Esthetic appearance,
- 10 bar working pressure

### Connection Schedule

Ideal water heater tank connection diagram

- 1.Safety Valve
- 2.Isolating Valve
- 3.Circulation Valve
- 4.Thermostat
- 5.Check valve
- 6.Strainer



## Single Coil Boiler

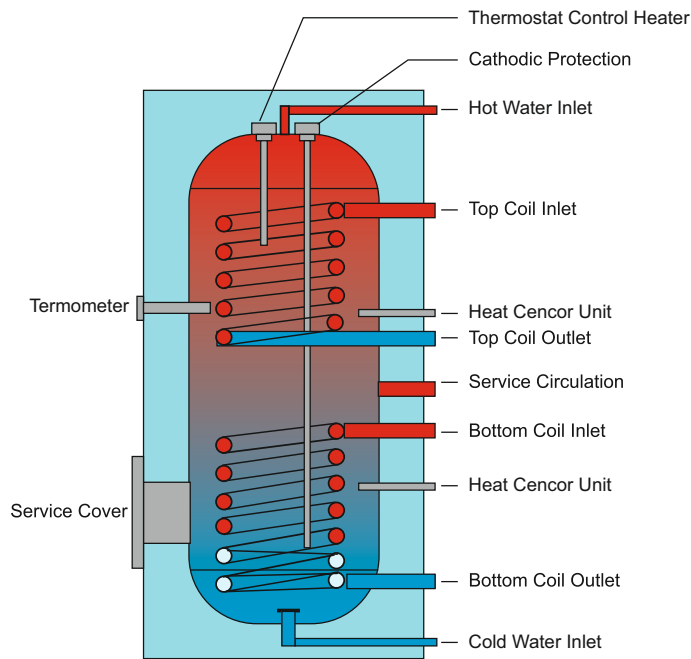
Dimensions	MIT 101	MIT 161	MIT 201	MIT 351	MIT 501	MIT 601	MIT 801	MIT 1001	MIT 1501	MIT 2001	MIT 2501	MIT 3001	MIT 4001	MIT 5001	MIT 6001
Capacity(lt)	100	160	200	350	500	600	800	1000	1500	2000	2500	3000	4000	5000	6000
Outside Diameter(mm)	486	586	586	756	756	756	910	1010	1120	1260	1460	1460	1660	1660	1660
Height(mm)	1050	1050	1250	1270	1720	1970	2100	2130	2420	2450	2350	2750	2480	2980	3500
Heater Inlet-Outlet	1"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	2"	2"	2"
Cold Water Inlet-Hot Water Outlet¾"	¾"	¾"	¾"	1"	1"	1"	1¼"	1¼"	1½"	1½"	2"	2"	2½"	2½"	2½"
Circulation	¾"	¾"	¾"	1"	1"	1"	1¼"	1¼"	1½"	1½"	2"	2"	2"	2"	2"
Coil Surface (m2) <sup>2</sup>	0,59	0,81	1,08	1,45	2,19	2,19	3,08	3,08	4,97	4,97	6,59	7	8,5	10	12
Weight(kg)	73	89	100	132	181	194	286	352	407	537	680	810	1190	1370	1545

Note: It can be produced full capacity polyuretane insulated galvanized steel sheet via electrostatic powder coating sheath as client requests.

Boiler Capacity(lt)	Hot Fluid Temperature	Heat Capacity(lt/h)	
		10C-60C	10C-45C
100	90-70 °C	480	720
	80-60 °C	330	540
	70-50 °C	230	380
160	90-70 °C	875	1450
	80-60 °C	650	1160
	70-50 °C	445	820
200	90-70 °C	1070	1760
	80-60 °C	890	1320
	70-50 °C	560	1050
350	90-70 °C	1290	2180
	80-60 °C	980	1670
	70-50 °C	635	1280
400	90-70 °C	1290	2180
	80-60 °C	980	1670
	70-50 °C	635	1280
500	90-70 °C	1510	2480
	80-60 °C	1120	1860
	70-50 °C	725	1440
600	90-70 °C	1510	2480
	80-60 °C	1120	1860
	70-50 °C	725	1440
800	90-70 °C	1760	2850
	80-60 °C	1400	2250
	70-50 °C	830	1700
1000	90-70 °C	1760	2850
	80-60 °C	1400	2250
	70-50 °C	830	1700
1500	90-70 °C	2080	3350
	80-60 °C	1640	2640
	70-50 °C	970	2000
2000	90-70 °C	2380	3750
	80-60 °C	1840	2960
	70-50 °C	1090	2230
3000	90-70 °C	3020	5820
	80-60 °C	2200	4400
	70-50 °C	1200	2810
4000	90-70 °C	4120	6870
	80-60 °C	3020	5220
	70-50 °C	1780	3790
5000	90-70 °C	5430	8750
	80-60 °C	4230	6600
	70-50 °C	2225	4880

## Double Coil Boiler

Double coil boilers are used in the systems which have double heat sources (solid/liquid/gas fired boiler/ solar/ waste energy).



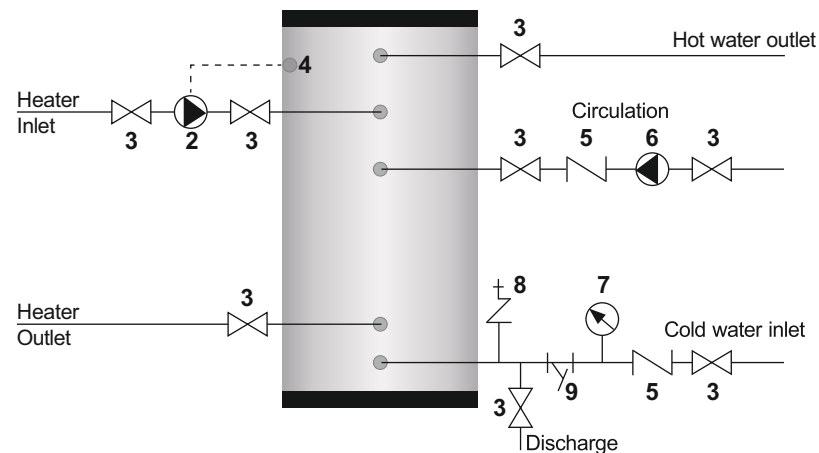
### Technical Features

- From 160 to 6000 lt capacity
- Water contact surfaces are hygienic due to the double layer enamel coating
- From 160 lt to 600 lt 50 mm thickness polyurethane insulated, 800 lt up to 6000 lt special sponge insulated.
- From 160 lt to 600 lt galvanized sheet cover electrostatic powder painted sheath

### Connection Chart

Ideal Boiler Connection Chart

1. Boiler
2. Circulation Pump(heater)
3. Turn on/off switch
4. Thermostat
5. Check valve
6. Circulation Pump(installation)
7. Manometer
8. Safety Valve
9. Dirt Seperator





## Double Coil Boiler

Dimensions	MIT 162	MIT 202	MIT 352	MIT 502	MIT 602	MIT 802	MIT 1002	MIT 1502	MIT 2002	MIT 2502	MIT 3002	MIT 4002	MIT 5002	MIT 6002
Capacity(lt)	160	200	350	500	600	800	1000	1500	2000	2500	3000	4000	5000	6000
Outside Diameter(mm)	586	586	756	756	756	910	1010	1120	1260	1460	1460	1660	1660	1660
Height(mm)	1050	1250	1270	1720	1970	2100	2130	2420	2450	2350	2750	2480	2980	3500
Heater Inlet-Outlet	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	2"	2"	2"
Heater Inlet-Outlet	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	1¼"	2"	2"	2"
Cold Water Inlet Hot Water Outlet	¾"	¾"	1"	1"	1"	1¼"	1¼"	1½"	1½"	2"	2"	2½"	2½"	2½"
Circulation	¾"	¾"	1"	1"	1"	1¼"	1¼"	1½"	1½"	2"	2"	2"	2"	2"
Coil Surface (solar collector)(m2)	0,74	0,81	1,2	2,19	2,19	3,08	3,08	4,97	4,97	5,4	7	8,5	10	12
Coil Surface For Heater(m2)	0,59	0,74	1	1,39	1,39	1,54	1,54	2,18	2,18	3,03	3,4	4,25	5,01	6
Weight(kg)	102	114	143	198	227	332	391	447	582	765	895	1250	1440	1645

Note: It can be produced full capacity polyuretane insulated galvanized steel sheet via electrostatic powder coating sheath as client requests.

Boiler Capacity(lt)	Hot Fluid Temperature	Heat Capacity (lt/h) 10C-60C	Heat Capacity (lt/h) 10C-45C
160	90-70 °C	450	740
	80-60 °C	320	560
	70-50 °C	230	390
200	90-70 °C	630	960
	80-60 °C	380	730
	70-50 °C	300	500
350	90-70 °C	930	1380
	80-60 °C	730	830
	70-50 °C	410	610
400	90-70 °C	930	1380
	80-60 °C	730	830
	70-50 °C	410	610
500	90-70 °C	980	1740
	80-60 °C	770	1360
	70-50 °C	440	1040
600	90-70 °C	980	1740
	80-60 °C	770	1360
	70-50 °C	440	1040
800	90-70 °C	1150	1850
	80-60 °C	930	1450
	70-50 °C	550	1100
1000	90-70 °C	1150	1850
	80-60 °C	930	1450
	70-50 °C	550	1100
1500	90-70 °C	1290	2000
	80-60 °C	980	1540
	70-50 °C	635	1180
2000	90-70 °C	1470	2380
	80-60 °C	1120	1770
	70-50 °C	725	1380
3000	90-70 °C	2100	4250
	80-60 °C	1230	3210
	70-50 °C	910	1980
4000	90-70 °C	3050	4800
	80-60 °C	1730	4010
	70-50 °C	1260	2750
5000	90-70 °C	4100	6100
	80-60 °C	2800	5100
	70-50 °C	1700	3250

## Electrical Heater Boiler

Electric heater boiler meets the hot water needs using electricity where there is no fluid source.



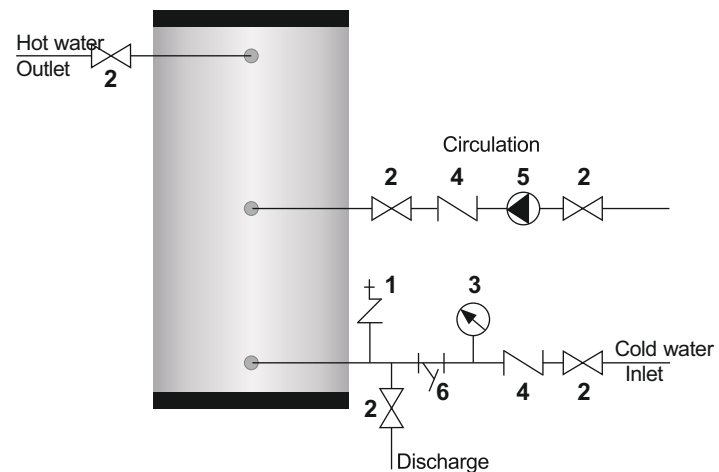
### Technical Specification

- Capacity between from 160litres to 6000 lt
- Surfaces in contact with water are double enamel coating (hygienic)
- From 100 lt to 600 lt, 50 mm thickness polyurethane insulated, from 800 lt to 6000 lt special sponge isolated
- From 100 lt to 600 lt, it carried over to electrostatic powder coat galvanized metal sheet , from 800 lt to 6000 lt special winlex case.
- Cathodic protection
- High efficiency
- Optional electric heating resistance
- Aesthetic appearance
- 10 bar Operating pressure

### Wiring diagram

Ideal boiler connection diagram

1. Safety valve
2. Isolating valve
3. Manometer
4. Check valve
5. Circulation pump
6. Strainer



## Electrical Heater Boiler

Dimension Table	MIT 103	MIT 163	MIT 203	MIT 353	MIT 503	MIT 603	MIT 803	MIT 1003	MIT 1503	MIT 2003	MIT 2503	MIT 3003	MIT 4003	MIT 5003	MIT 6003
Capacity	100	160	200	350	500	600	800	1000	1500	2000	2500	3000	4000	5000	6000
Diameter	486	586	586	756	756	756	910	1010	1120	1260	1460	1460	1660	1660	1660
Height	1100	1100	1300	1320	1770	2020	2150	2180	2470	2500	2350	2700	2480	2980	3500
Cold water inlet	¾"	¾"	¾"	1"	1"	1"	1¼"	1¼"	1½"	1½"	2"	2"	2½"	2½"	2½"
Hot Water Outlet	¾"	¾"	¾"	1"	1"	1"	1¼"	1¼"	1½"	1½"	2"	2"	2½"	2½"	2½"
Circulation	¾"	¾"	¾"	¾"	¾"	¾"	1"	1"	1¼"	1¼"	1½"	1½"	2"	2"	2"
Circulation ( m <sup>2</sup> )	0,59	0,81	1,08	1,45	2,19	2,19	3,08	3,08	4,97	4,97	6,59	7	8,5	10	12
Weight	65	74	89	156	177	194	250	310	417	590	560	690	980	1140	1300

Boiler Capacity	Capacity (lt)	Electric Power (kW)	Hot Water Capacity (lt/h) 10°C-45°C
MIT 100	100	1x4	98
MIT 160	160	2x3	147
MIT 200	200	2x4	196
MIT 350	350	2x7	345
MIT 500	500	2x10	491
MIT 600	600	2x12	593
MIT 800	800	2x15	740
MIT 1000	1000	3x15	1105
MIT 1500	1500	4x15	1475
MIT 2000	2000	5x15	1850
MIT 2500	2500	7x15	2580
MIT 3000	3000	8x15	2948
MIT 4000	4000	10x15	3685
MIT 5000	5000	13x15	4791
MIT 6000	6000	16x15	5897

Note : The values above 220 V - 380 V, 50 Hz mains voltage is based.



## Boiler Kinds

### A. Epoxy Painted Boilers

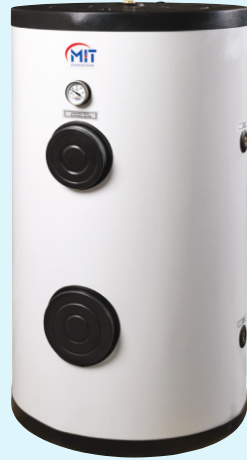
**Material:** St.37 1.st quality sheet metal from sanding then epoxy paint coated. Insulation

#### Insulation

- Polyurethane
- Special Sponge
- Fiberglass
- Rockwool

#### Advantages

- More Affordable Price according to Other Types
- Very Fast Delivery
- High Compressive Strength
- High Heat Saving



### B. Enamel Coated Boilers

**Material:** St.37 1st quality double enamel coating is applied on the sheet.

#### Insulation

- Polyurethane
- Special Sponge
- Fiberglass
- Rockwool

#### Advantages

- High Corrosion Resistance
- Fast Delivery
- High Compressive Strength
- Low Thermal Conductivity



### C. Stainless Steel Tanks

**Material:** 304 L or 316 L

#### Insulation

- Polyurethane
- Special Sponge
- Fiberglass
- Rockwool

#### Advantages

- Very High Corrosion Resistance
- Very Long Lifetime
- High Compressive Strength
- Low Thermal Conductivity



## Professional System Solution Center

You can take assistance about problems you have from MIT Plate Heat Exchanger Solution Center, Our solution center having qualified mechanical engineers will be happy to help you. These are some of the subjects that we can happily help you;

### Steam Installations

- Utility hot water installations
- Central and local heating systems
- Milk, yogurt, airan heating cooling and pasteurization
- Industrial heating and cooling systems
- Oil cooling installations
- Energy recycle systems
- Pool heating systems



0216 444 35 46

In Plate Heat Exchanger systems, it is vital to setup the system correctly to get the desired capacity. That is why, when you set-up your systems you can take needed assistance from first hand just using a phone (+90 444 35 46) for 7 days and 24 hours.

To make your system and heat exchanger work correct and full performance, we want to share the information we've had through the long years. It really is a big happiness for us.

We want to emphasize that again and again. Ekin Endüstriyel will continue being the best solution partner in every place where heat exchanger is used.



**Ekin Endüstriyel Isıtma-Soğutma San. Tic. Ltd. Şti.**

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