



 EKİN ENDÜSTRİYEL

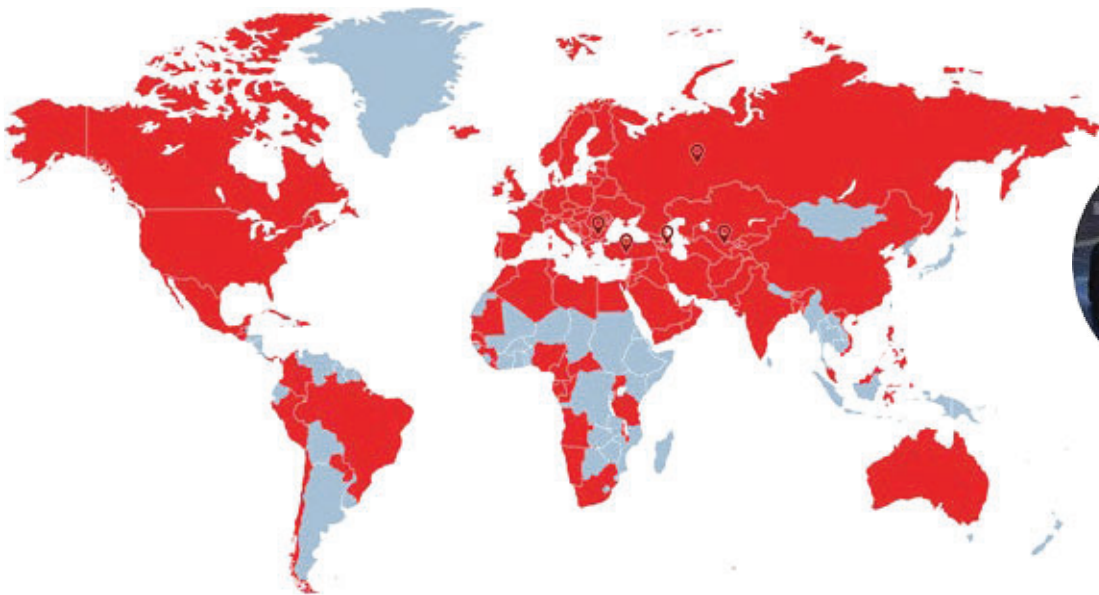
The logo for Ekin Industrial is located in the center of the page. It consists of a stylized white symbol that resembles a double 'E' or a circular emblem with a central cross-like shape. To the right of this symbol, the text 'EKİN ENDÜSTRİYEL' is written in a white, uppercase, sans-serif font.

**BOILER PRODUCT  
CATALOGUE**

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## Quality and Dependability That You Deserve!



The second-rated company in Türkiye has exported to the most different countries in 2021, according to ISIB (Türkiye HVAC-R).



## **The first condition of innovation is to question. Sustainable innovation is to never stop questioning.**

For us, the journey of innovation started with a question: “Why not produce value-added technology in Türkiye?”. The first turning point in this long journey was the birth of the MIT (Made In Türkiye) brand. The founding vision of MIT, which enabled us to become Türkiye’s first domestic manufacturer in the field of “Plate Heat Exchanger”, was not to be a domestic “alternative”, but to create a quality brand that could compete in the global market.

By working for this goal, we have been entitled to receive many international quality certificates such as ISO, TSE, CE, GOST... for our products and processes over many years. For us, questioning the current situation was a natural result of our desire to exceed ourselves.

## **New Generation Engineering**

With our engineering approach that focuses on the process, not the problem, we do not only specialise in one product, but also consider the entire ecosystem of that product. Therefore, we provide an end-to-end application by producing all other components that will form a system as well as the plate heat exchanger. For this, we focus on the continuous development of the necessary engineer staff. With our business development, pre-sales, sales and after-sales services provided by our expert engineers, we produce not only products but also “solutions”.

At the point we have reached; we offer complementary services with our internationally approved plate heat exchangers, components such as accumulation tanks, boilers, industrial pumps and installation materials that turn these heat exchangers into a system. With our team of more than 100 expert engineers, we continue to develop as a solution partner for projects requiring high technology in more than 60 countries.



## HEAT TRANSFER PRODUCTS

- Gasketed Plate Heat Exchangers
- Brazed Heat Exchangers
- Shell & Tube Heat Exchangers
- Evaporators and Condensers
- DC Fan Driven Oil Coolers
- Heat Coils
- Serpentine / Radiators / Economizers

## PRESSURE VESSELS

- Water Heater Tanks
- Water Storage Tanks
- Buffer Tanks
- Expansion Tanks / Automatic Pump Controlled Expansion System
- Stainless Steel Tanks
- Balance Tanks / Dirt Separators / Air Separators / Air Tubes
- Steam Separators
- Pressured Air Tanks
- Neutralization Units

## INDUSTRIAL AND FOOD GRADE SYSTEMS

- Heat Stations
- Industrial Process Systems
- Dosing Systems
- Substations
- Thermoregulators
- Pasteurizers
- CIP and Hygienic Process Systems
- Hygienic Storage and Process Tanks / Reactors
- Homogenizers
- Turn-key Projects

## FLUID TRANSFER PRODUCTS

- Lobe Pumps
- Hygienic Centrifugal Pumps
- Twin Screw Pumps
- Gear Pumps
- Magnetic Drive Pumps / Thermoplastic Pumps
- Dosing Pumps
- Air Operated Double Diaphragm Pumps (AODD)
- Drum Pumps
- Monopumps
- Peristaltic (Hose) Pumps
- Centrifugal Blowers
- Roots Blowers
- Turbo Blowers

## FLOW CONTROL UNITS

- Butterfly Valves
- Ball Valves
- Globe Valves
- Knife Gate Valves
- Actuators
- Check Valves and Strainers
- Pneumatic Piston Valves

## ENERGY SYSTEMS

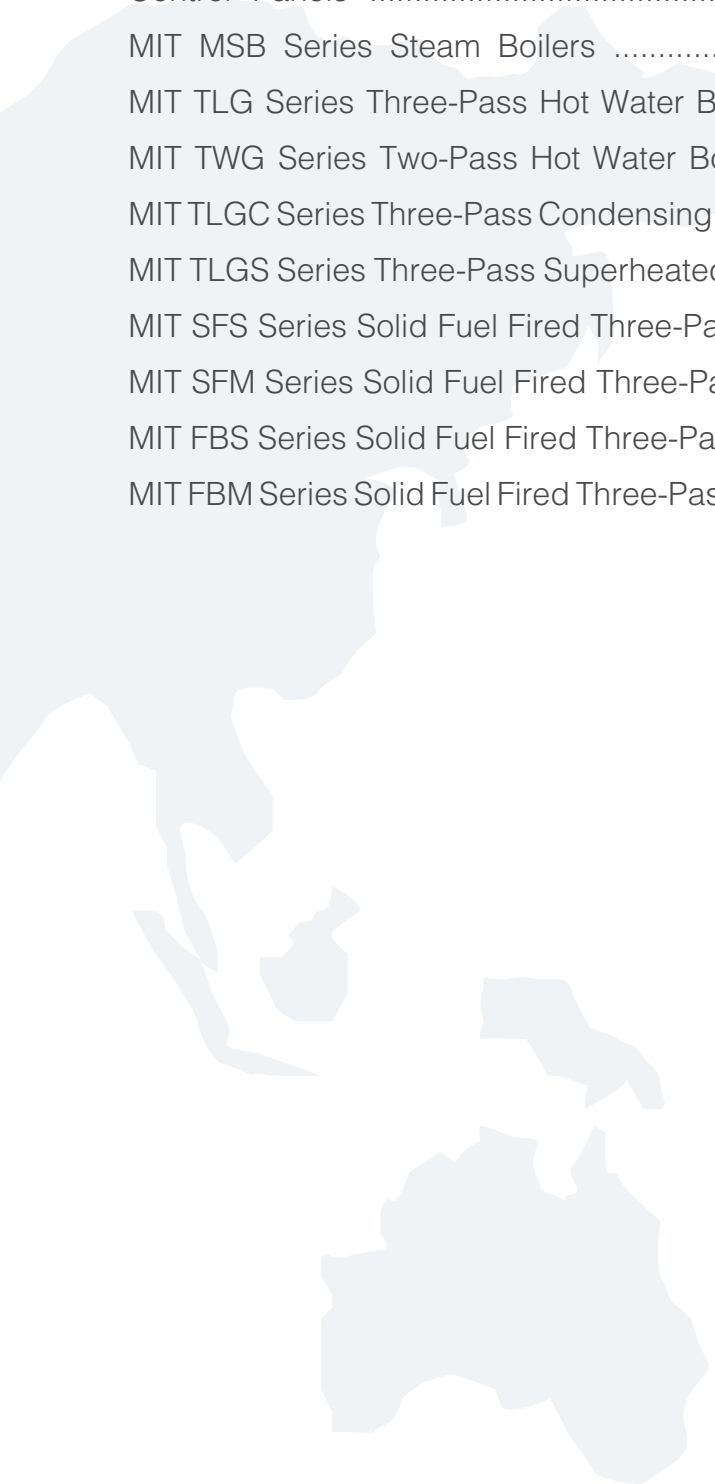
- Domestic and Industrial Boilers
- Steam Generators
- Chillers
- Cooling Towers


PRODUCT RANGE



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A hand is shown holding a glowing network of nodes and lines, symbolizing technology or data. The background features a world map with a grid of dots, suggesting global connectivity. The overall image has a blue and white color scheme with a soft glow.

*From our product quality to our value-added services; we owe our sustainable success to our established corporate culture in every field from employee satisfaction to customer satisfaction.*

*Our comprehensive corporate policies pave the way for our corporate culture. Thanks to these policies, we design all our activities to offer the same quality regardless of individuals and market dynamics.*

# CORPORATE POLICIES



The secret of being the leading company in the heating and cooling sector lies in the people. We know in order to make a difference; it is necessary to have the staff to implement these policies flawlessly as well as the corporate policies created by experts in their fields with nearly 20 years of experience. We demonstrate our customer-oriented approach by reflecting the needs and expectations of the industry to our MIT branded products in the best possible way. We are raising the standards of the heating-cooling and air conditioning industry by combining our modern production and marketing understanding with our innovative approach with the valuable experience of our expert engineers.



## OUR VISION

To make the MIT brand a reputable and leading global brand in all sectors in which Ekin Endüstriyel operates.

## OUR MISSION

To provide sustainable benefit to all our stakeholders by using our resources effectively and efficiently within the framework of human and moral values.



## AN ENGINEERING APPROACH FROM SALES TO MAINTENANCE

We offer value added pre and after sale services with our customer satisfaction-oriented approach and deep expertise we are more than happy to share. Thanks to our expert engineers that provide proactive solutions, we focus on making a difference throughout the process, from presales to maintenance. With our “quality product, quality service, quality solution” approach, we are more than a manufacturer and supplier, we are a highly motivated solution partner for all kinds of heating and cooling projects.





## QUALITY POLICY

We aim for sustainable quality with a proactive approach that not only meets the need but anticipates it. We bring together an understanding of corporate management based on strategy, not personal thoughts, with effective decision-making mechanisms that include our employees and suppliers. We run an operation based on efficiency and sustainability.



## CUSTOMER SATISFACTION

We aim for sustainable quality with a proactive approach that anticipates rather than meets the need. We bring together a corporate management approach based on strategy, not personal considerations, with effective decision-making mechanisms, including our employees and suppliers. We run an operation based on efficiency and sustainability.





## ETHICAL VALUES

We conduct all our activities in accordance with the laws and then with ethical values. We believe in growing together and we look for mutual benefit in all our business relationships.

## PRIVACY POLICY

All your personal information shared with our company is guaranteed by our ethical values and our processes in compliance with the Law No. 6698 on Protection of Personal Data.

## OCCUPATIONAL HEALTH AND SAFETY (OHS) POLICY

We prioritize a single rule in all our operations: "It is the right of every human being to work in a healthy and safe environment." We minimize risks with preventive OHS practices and analyzes. We increase the awareness of our own personnel, our suppliers and subcontractors with trainings and guidance. We work with the understanding of "zero concessions" in compliance with Occupational Health and Safety Regulations and related laws.

## ENVIRONMENTAL POLICY

We care about the prevention of waste in natural resource consumption. We keep the environmental pollutants and our wastes under constant control. We constantly inform our employees in this topic. We never compromise on compliance with the relevant legal legislation, and we wholeheartedly support all kinds of work that will benefit environmentally friendly technologies and social awareness.

## INFORMATION SECURITY

All our information technology operations are protected by our information security processes, which are managed in accordance with ISO 27001 Information Security Management System requirements.



## SPONSORSHIP AND SOCIAL RESPONSIBILITY

As Ekin Endüstriyel, we have been supporting projects that will bring social benefit from day one with our desire to develop and grow together. We strive to create and promote a sensitivity towards the future of our country and our world.

With our understanding of "Sponsorship and Social Responsibility", we regularly support various social sharing projects on education, health, and environment with great interest. We work diligently to fulfill our responsibilities towards our employees and heir families, customers, dealers, universities, non-governmental organizations, and other stakeholders.

In addition to the projects, we have implemented in a corporate sense, we support the projects created by students with all our strength in order to contribute to the raising of environmentally sensitive generations and to enlighten future generations. In addition, we prioritize the demands and needs of the projects in our region.

In the field of education, we are proud to provide support for many projects carried out domestically and nationwide. As the leading institution of the industry, we carry out projects focused on education and employment with vocational high schools and universities. In addition, innovation, we support the renewable energy, research, and R&D projects of student communities in Türkiye's elite universities.

We are also working with non-governmental organizations in the field of health. We regularly organize seminars to inform our employees in topics like blood donation, harms of smoking and similar health-related issues. We wholeheartedly support projects carried out in the field of health at every opportunity.

While contributing to the national economy and employment with our investments, we strive to achieve a vision that tries to be a pioneer and an example to the society with our sponsorship and social responsibility projects and the voluntary support of our employees. We prioritize projects that generate permanent benefits to create sustainable effects with our social responsibility efforts.

WE USE THE RESOURCES WE HAVE MORE EFFICIENTLY AND TAKE CARE TO PROVIDE THE MOST EFFECTIVE RECYCLING WITHIN OUR COMPANY. **WE ADOPT TO ACT WITH CARE AND SEE IT AS A REFLECTION OF OUR RESPECT FOR THE ENVIRONMENT, HUMANITY, FUTURE GENERATIONS, AND OURSELVES.**



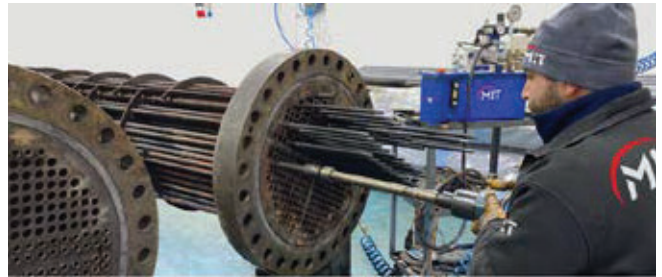


# OUR FACILITIES

 DUDULLU



HIGH QUALITY,  
FAST SHIPMENT  
& AFTER SALES  
SUPPORT!





We continue to produce solutions with designs suitable for the process and specific to your demand.



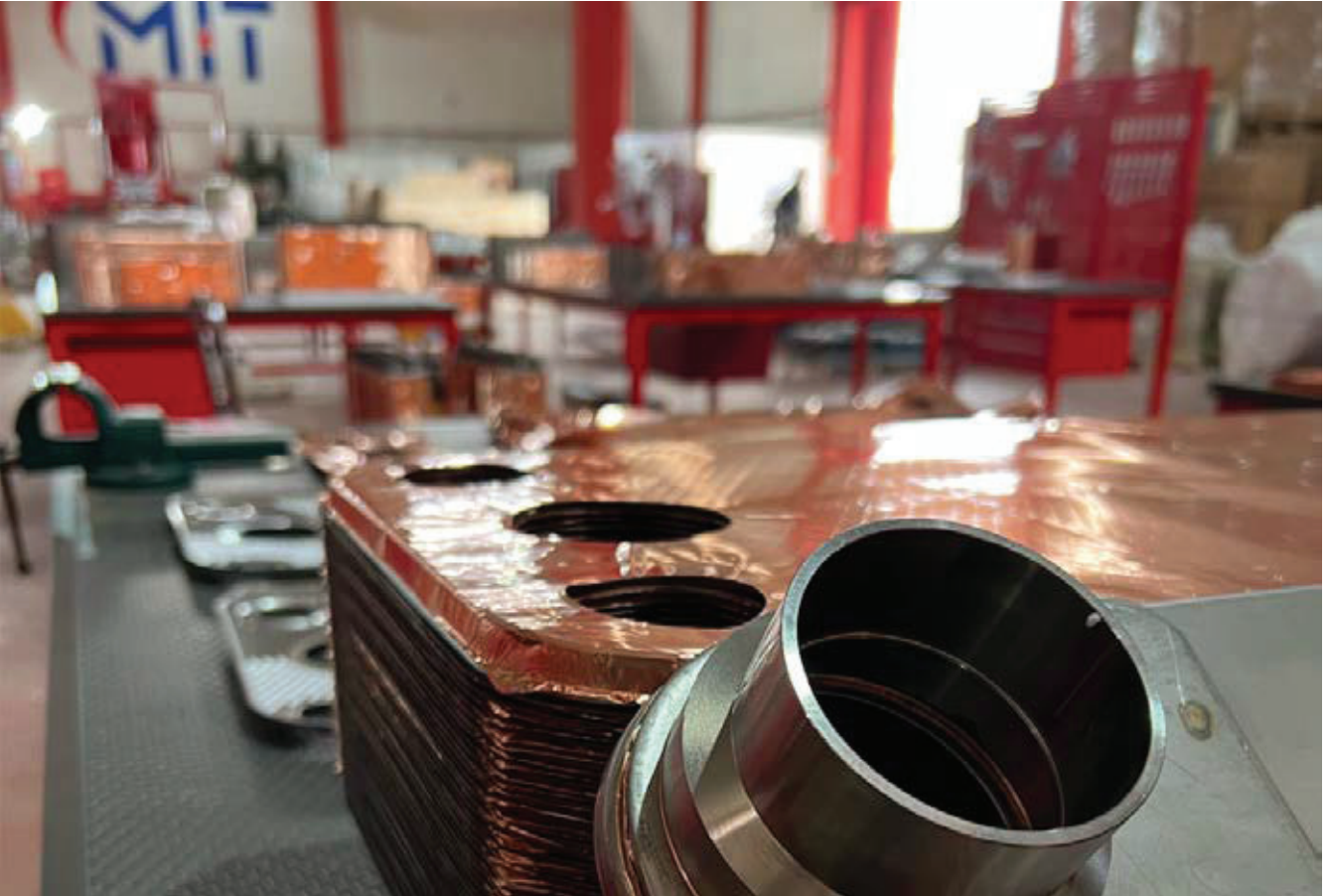
# OUR FACILITIES



KIRKLARELİ



QUALITY  
PRODUCTION  
WITH INNOVATIVE  
MANUFACTURING  
APPROACH

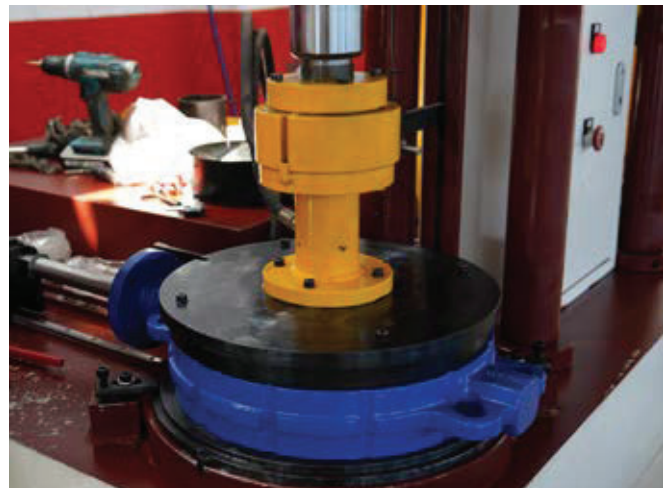




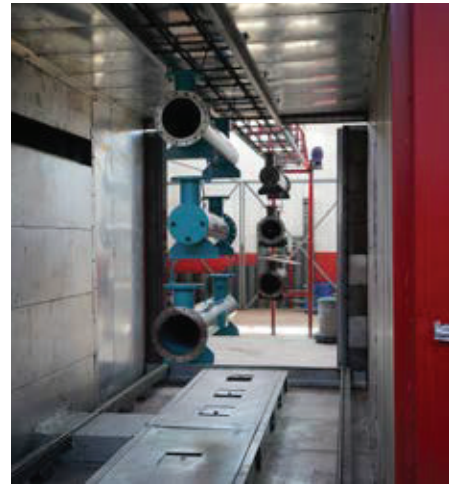
# OUR FACILITIES



AKSARAY









# OUR FACILITIES

 MALTEPE

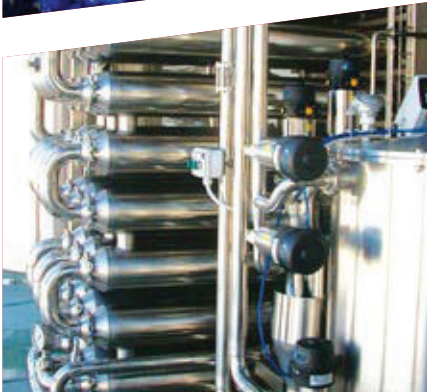






OUR PRODUCTIONS

SAHADAN



## OUR HISTORY

- 2005** As Ekin Endüstriyel, we have established our foot print as the very "First Domestic Plate Heat Exchanger" producer, applying "New Generation Engineering" approach.
- 2006** We succeeded as a locally technology possessor & pioneer of domestically producing company of heat exchanger; entiteled with MIT (Made in Türkiye) brand.
- 2007** We added the production of "Pressure Vessels" alongside our Plate Heat Exchanger, and continously growing.
- 2008** We added "Tubular Heat Exchangers" to our Heat Transfer Portfolio...
- 2009** In order to determine the most suitable heat exchangers for our customers' needs, our expert engineers started to offer the best solutions via using the heat exchanger selection software.
- 2010** Expansion Tank took its place in our product range, which provides pressure control and water support in plumbing systems.
- 2011** "MIT Brazed Plate Heat Exchanger" designed & produced for cooling-heating & ventilation processes.
- 2012** MIT brand has made its presence felt in 60 countries.
- 2013** Ekin moved the headquarter to a new location in Des Industrial Zone.
- 2014** Foundation of our Kırklareli factory launched.
- 2015** "Fluid & Air Transfer" products added to Ekin product portfolio; & that enabled us to be responsive to our customers, in each & every field.
- 2016** Our 2500 m<sup>2</sup> factory in Kırklareli started commissioning.
- 2017** We started providing services in various engineering fields to meet our customers' expectations with "Package System" solutions.
- 2018** "MIT Cooling Towers", "Chillers" and "Steam Generators" have been included in our product range. "MIT point" Regional directorates started operations in four different countries.
- 2019** We never stopped moving forward and started manufacturing "MIT Boilers".
- 2020** We added Truevalve brand to our group of products.
- 2021** We established our Maltepe facility as a new site, added to our production potentials.
- 2022** We have been granted "2nd-Exporting Company of the Year 2021" award, by İSİB in Air Conditioning Sector.

### Today;

Alongside our various production facilities (Dudullu Organized Industrial Zone, Aksaray, Kırklareli, Maltepe), we have been trying to provide our business partners with best services, end-to-end equipment supply and unlimited supports. With our innovative manufacturing approach and team-work spirit...

## Central System Boilers

The central heating system is the most commonly used method in multi-flat settlements such as apartments, residences and sites, with a common heating system. The central system is among the heating system planning that is frequently used in our country and around the world. Especially when natural gas installation connections are not wide and combi boiler models are rarely used, the central heating boiler gets involved.

Central heating system is the distribution of the heat energy obtained from a single center (boiler) evenly to the radiators that provide heating of the buildings. Especially in apartments with many flats, it is very effective in heating each building equally. Since equal and continuous heating occurs, independent parts of buildings and flats benefit from heat energy, providing great efficiency. However, the heat obtained in apartments with a building thermal insulation system is high.



### Usage Areas of Hot Water Boilers

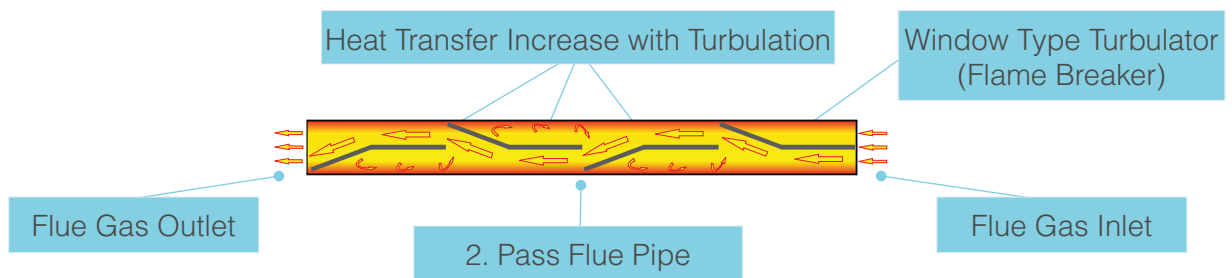
- Farms
- Greenhouses
- Food industry
- Housing
- Hospitals
- Hotels
- High-rise Buildings
- Industrial Facilities
- Places where wooden materials are processed
- It is used in places where construction materials are produced.





## Window Type Flame Breaker (Turbulator)

Thanks to window-type turbulators (flame breaker) found in second pass pipes, combustion efficiency increases and fuel consumption decreases.



## Optional Control Panel

Digital control panel offered to our customers as an option on all liquid fuel boilers;

- Adjusting installation water to desired temperature.
- Heat tracking with digital display.
- Adjusting installation water temperature according to exterior ambient temperature.
- Protection against excessive heatings thanks to safety thermostat.
- Preventing unnecessary electricity consumption by controlling circulation pump as per installation water temperature are all provided.
- Compatibility with one, two process and proportional gas and oil fired boilers.
- Safety relay and secondary safety sensor.
- Simple and aesthetic interface.
- Numerical microprocessor based control.
- Easy assembly and easy replacement.

## Standard Boiler Control Panel

Control Elements and Functions;

Boiler On/Off Button: Turning the heating (Burner) on or off

On/Off Button: Turns the boiler pump on or off

Fuse: Protection against high current with the 6 A fuse in the control panel

Stage I. Burner Lamp: Working lamp at burner Stage I.

Stage II. Burner Lamp: Working lamp at burner Stage II.

Burner Warning Lamp: Burner malfunction lamp

Temperature Adjustment Thermostat: Allows adjustment of boiler temperature between 30 - 85 °C.

II. Stage Temperature Adjustment Thermostat: In II Stage Burners, it allows the activation and exit temperature of the II.Stage to be adjusted.

Thermometer: Shows the boiler temperature.



Single Stage



Double Stage



## Control Panels



Boiler control panels; It has a modular structure that can be selected according to the structure of the boiler system to be applied. The boiler control panel adjusts the boiler water outlet temperature according to the outside air temperature and controls the 3-way valve and pumps. With the Cascade system, which allows multiple boilers to work as a single boiler, 15 boilers are offered as an option for MIT gas-fired boilers.

### Advantages of Cascade Control Panel

- Easy setup and operation with a user interface supporting English character.
- Compatibility with wired and wireless field devices.
- Advanced service module.
- Remote access possibility.

### Usage areas

- Buildings with central heating systems.
- Building and commercial fields with self heating and usage water.
- Standard heating systems.

In addition to its basic features such radiator, convector, floor and ceiling heating compatible; outside air compensation and weekly time schedule, it can provide a complete heating automation thanks to its multi-functional inlets and outlets and various additional features such as sun collector, additional pump, additional electric heater control for usage water. With its ability to control also wall type boilers, RVS can be accessed remotely, and its control can be made over mobile phone.

You can control your system with time schedule, you can restart your device 3 times within the day. While your device works according to comfort conditions you have specified during desired hours, it works in economy mode and you can hereby save.



### MIT MSB Series Steam Boilers

MIT MSB Series Scotch type Steam Boilers are produced with liquid and gas fuel in accordance with EN-12953 and 97/23 EC norms. It is environmentally friendly with its high combustion efficiency and low flue gas emission values. With their compact design, they provide ease of placement in boiler rooms and are long-lasting and trouble-free boilers.

All materials used in the production of the boiler are certified in accordance with the standards and the sheets are P235GH, P355GH, and the pipes are P235 GH steel drawn seamless pipes. The steam volume is kept high in the boiler construction, thus increasing the saturated steam quality. The large volume of water also ensured a homogeneous heat distribution in the boiler.

By keeping the heat load of the boiler combustion cell (furnace) low, it is economical, efficient and environmentally friendly with low flue gas emission values. Boiler covers are insulated with refractory refractory concrete resistant to 1450 °C. Heat losses are minimized by covering the outer body of the boiler with 1 mm aluminum embossed sheet over 80 mm rabbitz wire rock wool.

In our production facility, which operates with the ISO 9000 Quality Management System, each boiler that comes out of production is subjected to a 100% hydrostatic test according to its pressure class and its leakage is checked. Upon request, certified production is carried out under the supervision of accredited inspection bodies (such as TÜV, LOYD).

MSB TECHNICAL SPECIFICATIONS										
Model			MSB 1000	MSB 1250	MSB 1500	MSB 2000	MSB 2500	MSB 3000	MSB 4000	MSB 5000
Steam Capacity		kg/h	1.000	1.250	1.500	2.000	2.500	3.000	4.000	5.000
Heating Capacity		kW	698	872	1.047	1.395	1.744	2.093	2.791	3.488
Heating Capacity		kcal/h	600.000	750.000	900.000	1.200.000	1.500.000	1.800.000	2.400.000	3.000.000
Heating Surface		m <sup>2</sup>	24	30	36	48	60	72	96	120
Steam Volume		m <sup>3</sup>	900	1000	1250	1500	1900	2500	3200	4100
Water Volume		lt	1600	1800	2100	2800	3800	5000	6700	8800
Length	L	mm	2750	2850	3150	3500	3950	4300	4850	5000
Width	A	mm	2000	2100	2250	2300	2400	2400	2500	2500
Height	H	mm	2000	2100	2300	2300	2450	2450	2600	2600
Steam Output	D	DN	50	65	65	80	80	125	125	150
Safety Valve	E	DN	25	32	32	32	40	40	40	50
Feed Water	B	DN	25	25	32	32	32	40	40	40
Surface Blowdown	C	DN	25	25	32	32	32	32	32	32
Bottom Blowdown	F	DN	32	32	40	40	40	40	40	40
Ventilation Con. Flange	J	DN	20	20	20	25	25	25	25	25
Chimney Diameter	G	mm	300	300	350	400	400	450	450	500
Smoke Paths Resistance		mmSS	50	55	55	60	60	65	65	70
Minimum Condensate Tank		LT	800 LT	1000 LT	1200	1500	1800	2000	2500	3000
Operating Pressure		BAR	4, 6, 8, 10, 12, 14, 15, 16 BAR (For larger operating pressure requests, please contact us.)							

MSB TECHNICAL SPECIFICATIONS										
Model			MSB 6000	MSB 8000	MSB 10000	MSB 12000	MSB 15000	MSB 18000	MSB 20000	
Steam Capacity		kg/h	6.000	8.000	10.000	12.000	15.000	18.000	20.000	
Heating Capacity		kW	4.186	5.581	6.977	8.372	10.465	12.558	13.953	
Heating Capacity		kcal/h	3.600.000	4.800.000	6.000.000	7.200.000	9.000.000	10.800.000	12.000.000	
Heating Surface		m <sup>2</sup>	144	192	240	288	360	432	480	
Steam Volume		m <sup>3</sup>	4800	5800	6500	7300	8900	10100	11500	
Water Volume		lt	10200	12500	14200	15300	18200	22000	23500	
Length	L	mm	5300	6200	6500	6700	6900	7100	7600	
Width	A	mm	2600	2800	3000	3200	3500	3650	4000	
Height	H	mm	2750	2850	3200	3400	3650	3750	4000	
Steam Output	D	DN	150	200	200	200	250	250	250	
Safety Valve	E	DN	50	65	65	80	80	100	100	
Feed Water	B	DN	50	50	65	65	80	80	80	
Surface Blowdown	C	DN	32	40	40	40	40	50	50	
Bottom Blowdown	F	DN	50	50	50	50	65	65	80	
Ventilation Con. Flange	J	DN	25	25	32	32	32	40	40	
Chimney Diameter	G	mm	500	700	800	850	950	1000	1000	
Smoke Paths Resistance		mmSS	80	90	100	100	110	110	115	
Minimum Condensate Tank		LT	3500	4000	6000	7500	9000	10000	10000	
Operating Pressure		BAR	4, 6, 8, 10, 12, 14, 15, 16 BAR (For larger operating pressure requests, please contact us.)							



### MIT TLG Series Three-Pass Hot Water Boilers

TLG Series Boilers are steel-bodied hot water boilers with a three-pass combustion system. It is environmentally friendly with its high combustion efficiency and low flue gas emission values. The burners provide full compatibility with the thermostatic control panel. With their compact design, they provide ease of placement in boiler rooms and are long-lasting and trouble-free boilers. Boiler radiation and standby losses are reduced to a minimum level due to the aluminum foil, high density glass wool thermal insulation. Continuous turbulence of the combustion gases is ensured by stainless turbulators placed inside the smoke pipes. Thus, the highest level of heat is transmitted to the boiler water. Maximum boiler efficiency is achieved by reducing the flue gas temperature to the desired levels. It has lower back pressure and quieter operation due to the three-pass system. With our versatile design, there is no need for high pressure and long barrel burners.

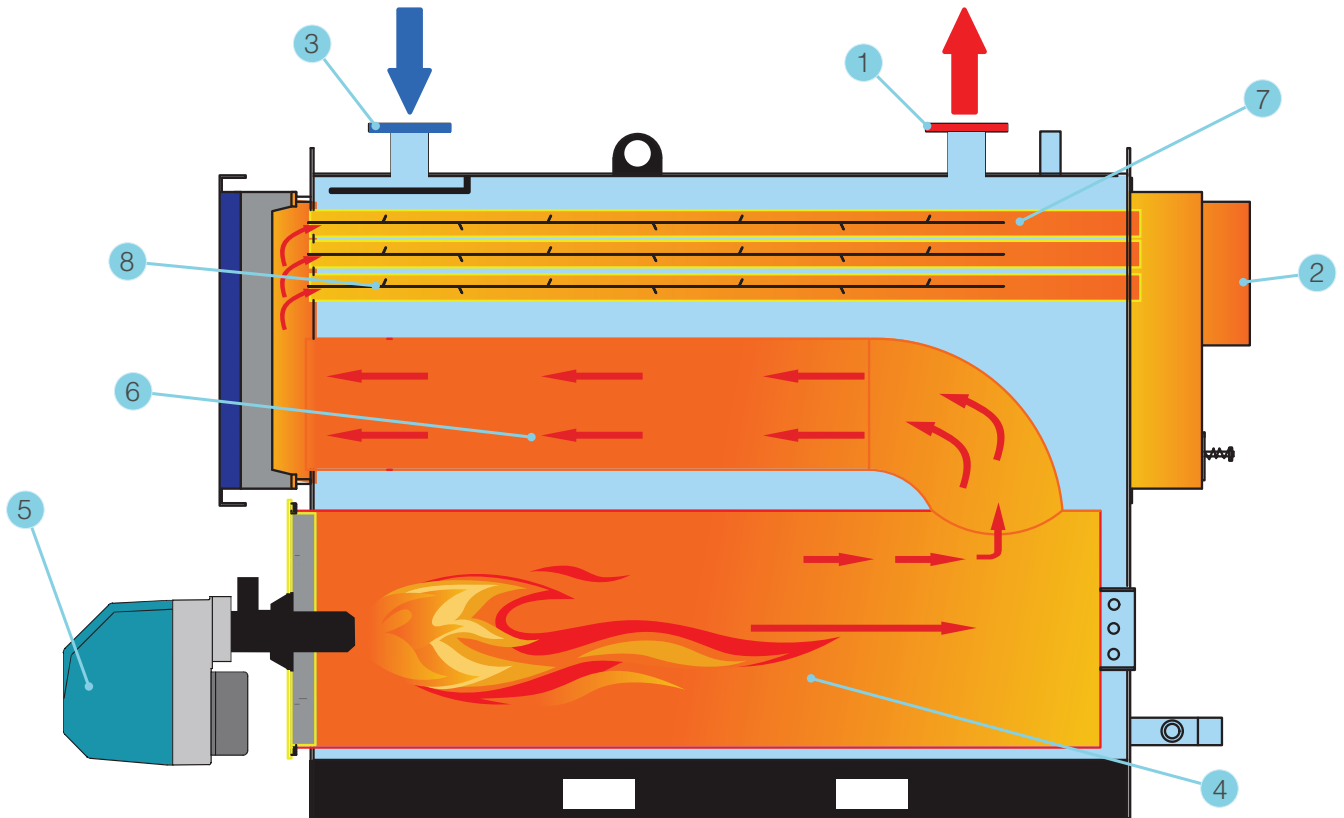
### Combustion Technology

In TLG series boilers with a three-pass combustion system, the flame coming out of the burner barrel is directed through the furnace (combustion cell) to the 2nd pass flame smoke pipe through the transition elbow. Then, it is directed to the 3rd passage pipes through the front upper cover. The stainless steel here undergoes turbulence with turbulators, thus the hot gases transfer their energy to the water with a high efficiency rate and from there, they direct to the chimney.

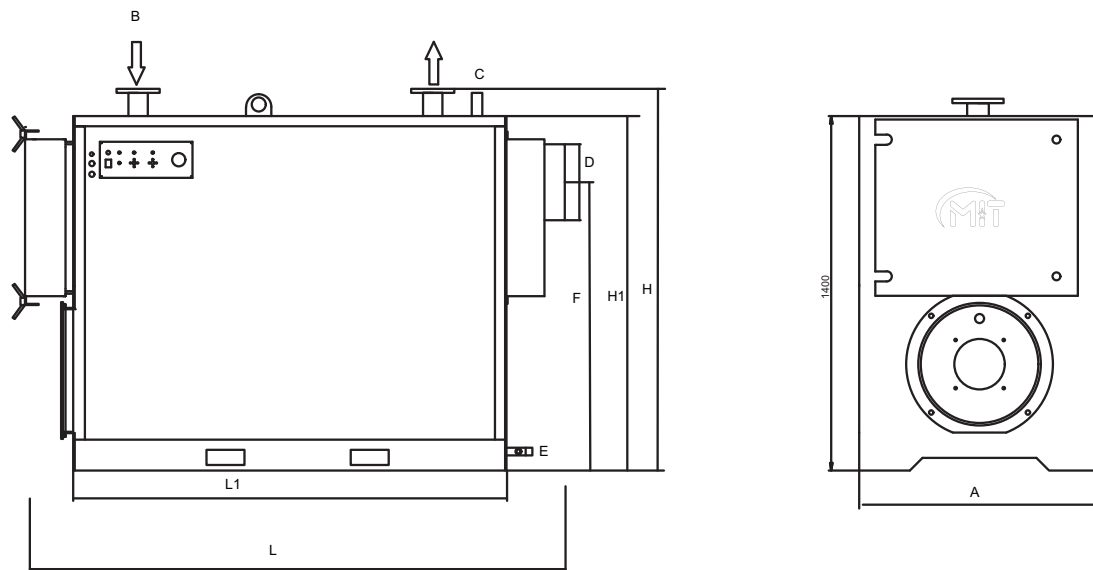
### TLG Series Boiler Features

- High combustion efficiency up to 95%.
- Window type flame crushers in third pass pipes (turbulators).
- Suitable for standard barrel burner use.
- Microprocessor control panel that can control burner and pump system.(Optional)
- Control panels offering comfort and economy together.
- Standard operating pressure 4 bars.
- Models with elliptical bodies up to 1000 kW and above are manufactured with cylindrical body construction.

- Body coated with electrostatic powder paint on galvanized sheet metal.
- 80 mm aluminum foil glass wool on the body, refractory concrete insulation resistant to 1450 C on the front cover.
- Production opportunity up to 10 bar on request.
- On-site manufacturing facilities.
- Compatibility with integrated and external stainless economizer applications.
- 3.1 certificated boiler tube compatible abundance 10217-2 norm.
- Compliance with national and International norms.



1	Installation Inlet Flange	5	Burner
2	Chimney Outlet	6	Smoke Pipe (2nd Pass)
3	Installation Return Flange	7	Smoke Pipe (3rd Pass)
4	Burning Room (1st Pass)	8	Turbulator



### TLG TECHNICAL SPECIFICATIONS

Model			TLG 100	TLG 150	TLG 175	TLG 200	TLG 250	TLG 300
Capacity	kcal/h		100.000	150.000	175.000	200.000	250.000	300.000
	KW		116	174	203	232	290	348
Width	A	mm	700	750	750	800	850	850
Length	L1	mm	1000	1110	1110	1310	1385	1385
Total Length	L	mm	1300	1530	1530	1750	1850	1850
Height	H1	mm	1150	1150	1150	1250	1250	1300
Total Height	H	mm	1210	1210	1210	1325	1340	1375
Chimney Diameter	D	mm	220	220	220	220	300	300
Chimney Height	F	mm	895	895	895	1045	1025	1035
Outward and Return	B	DN	2"	65	65	65	65	65
Safety Connection	C	inch	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4
Filling and Draining	E	inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Operating Pressure		bar	4	4	4	4	4	4
Hydraulic Test Pressure		bar	6	6	6	6	6	6
Back Pressure		mbar	1	1,7	2,2	2,5	2,7	2,9
Anhydrous Weight		Kg	400	510	540	610	690	800

Model			TLG 350	TLG 400	TLG 450	TLG 500	TLG 600	TLG 700
Capacity		kcal/h	350.000	400.000	450.000	500.000	600.000	700.000
		KW	406	464	523	580	696	812
Width	A	mm	850	950	950	1000	1000	1200
Length	L1	mm	1510	1710	1710	1710	1730	1730
Total Length	L	mm	1950	2100	2100	2100	2275	2275
Height	H1	mm	1300	1400	1400	1500	1500	1800
Total Height	H	mm	1400	1480	1480	1585	1670	1920
Chimney Diameter	D	mm	300	300	300	300	300	400
Chimney Height	F	mm	1060	1180	1260	1260	1295	1490
Outward and Return	B	DN	80	80	80	80	100	100
Safety Connection	C	inch	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2
Filling and Draining	E	inch	1"	1"	1"	1"	1"	1"
Operating Pressure		bar	4	4	4	4	4	4
Hydraulic Test Pressure		bar	6	6	6	6	6	6
Back Pressure		mbar	2,9	3	3,3	3,8	4	4,5
Anhydrous Weight		Kg	910	1020	1080	1100	1450	1630

Model			TLG 800	TLG 1000	TLG 1250	TLG 1500	TLG 1750	TLG 2000
Capacity		kcal/h	800.000	1.000.000	1.250.000	1.500.000	1.750.000	2.000.000
		KW	928	1.160	1.453	1.740	2034	2.320
Width	A	mm	1200	1450	1500	1500	1500	1750
Length	L1	mm	2010	2000	2250	2515	2800	3000
Total Length	L	mm	2540	2500	2750	3000	3450	3700
Height	H1	mm	1800	1500	1600	1700	1750	1850
Total Height	H	mm	1950	1625	1700	1765	1850	1950
Chimney Diameter	D	mm	400	400	400	450	450	500
Chimney Height	F	mm	1490	1190	1270	1320	1370	1420
Outward and Return	B	DN	100	125	125	150	150	150
Safety Connection	C	inch	1"1/2	65	65	65	80	80
Filling and Draining	E	inch	1"	1"1/4	1"1/4	1"1/4	1"1/2	1"1/2
Operating Pressure		bar	4	4	4	4	4	4
Hydraulic Test Pressure		bar	6	6	6	6	6	6
Back Pressure		mbar	5	5,5	6	6,5	6,7	7
Anhydrous Weight		Kg	1915	2100	2700	2890	3800	4100

Model			TLG 2500	TLG 3000	TLG 4000	TLG 5000
Capacity		kcal/h	2.500.000	3.000.000	4.000.000	5.000.000
		KW	2.900	3.480	5.232	5.813
Width	A	mm	2000	2000	2100	2400
Length	L1	mm	3250	3700	4200	4800
Total Length	L	mm	3850	4300	5000	5600
Height	H1	mm	2200	2200	2350	2400
Total Height	H	mm	2300	2300	2400	2600
Chimney Diameter	D	mm	500	550	600	650
Chimney Height	F	mm	1600	1600	1675	1700
Outward and Return	B	DN	200	200	200	200
Safety Connection	C	inch	80	80	80	80
Filling and Draining	E	inch	1"1/2	1"1/2	1"1/2	1"1/2
Operating Pressure		bar	4	4	4	4
Hydraulic Test Pressure		bar	6	6	6	6
Back Pressure		mbar	7,4	7,7	8	8,3
Anhydrous Weight		Kg	4350	5100	5350	6000



### MIT TWG Series Two-Pass Hot Water Boilers

TWG Series counter-pressure boilers are steel-bodied hot water boilers with a two-pass combustion system. It is environmentally friendly with high combustion efficiency and low flue gas emission values. The thermostatic control panel provides full compatibility with burners. Large combustion chamber, they ensure complete combustion of fuel at low temperatures thanks to the optimal heat transfer of the surfaces. Thanks to the aluminum foil and high density glass wool thermal insulation, boiler radiation and standby losses are minimized. Durable designs at thermal expansion points, high-performance material quality, automation welding methods; MIT TWG series two-pass hot water boilers, produced at international design and production standards, offer high performance to their users.

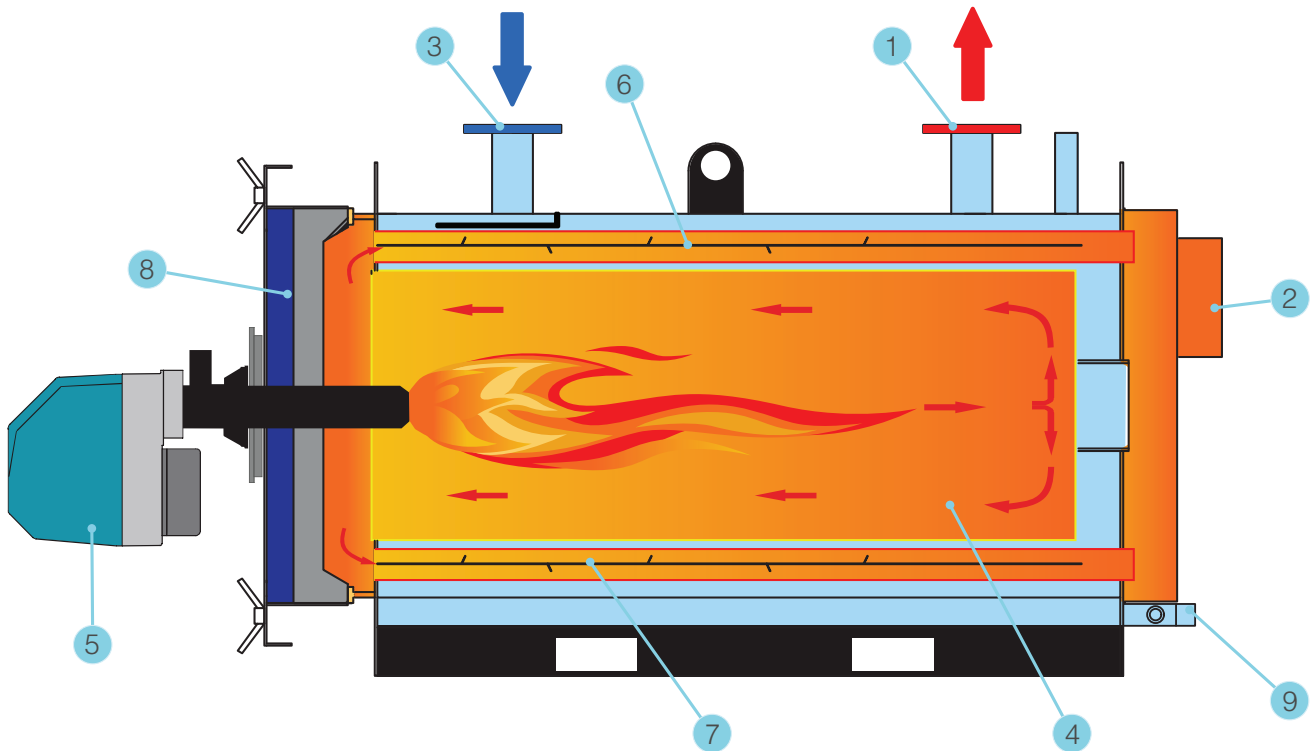
### Combustion Technology

In TWG series boilers with a two-pass combustion system, the flame coming out of the burner barrel turns into hot gas in the furnace (combustion cell), hits the opposite surface and heads towards the front again, where it encounters the flame coming out of the burner again. As a result of this encounter, maximum combustion efficiency and minimum waste gas emission value are achieved by exposing the unburned gases to a secondary combustion, which we call secondary combustion. Then, the hot gases directed to the flame and smoke pipes undergo turbulence with the stainless steel turbulators in the pipe. As a result of this process, the hot gases transfer their energy to the water with a high efficiency rate and direct to the chimney.

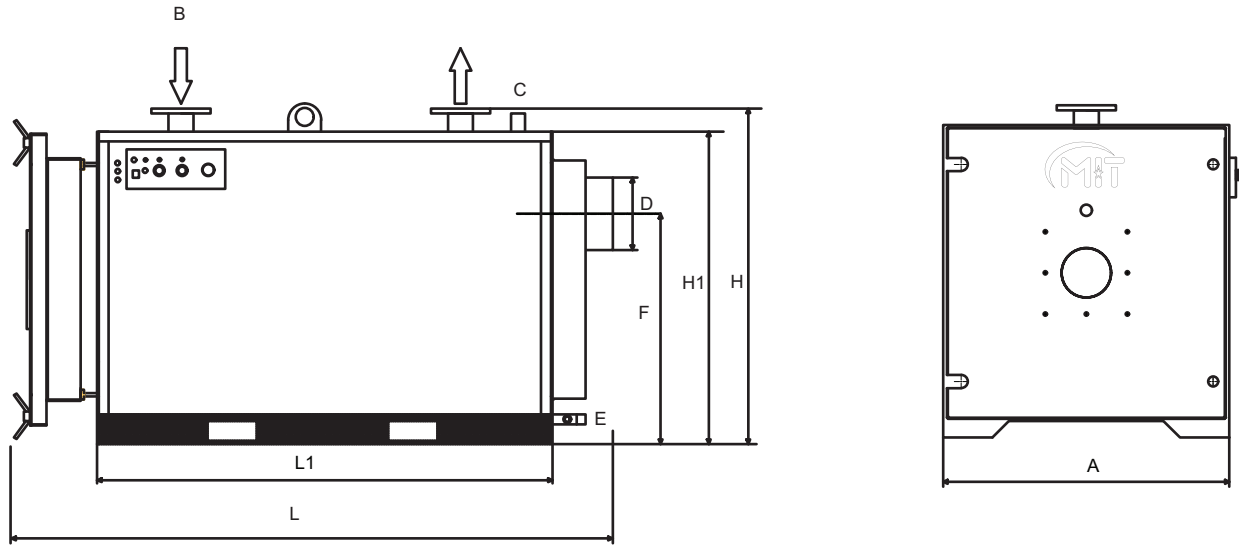


## TWG Series Boiler Features

- High combustion efficiency up to 95%.
- Standard operating pressure of 4 bars.
- Production opportunity up to 10 bar on request.
- It is designed to burn natural gas-LPG and diesel.
- Window type flame crushers in second pass pipes (turbulators).
- Control panels offering comfort and economy together.
- Compact boiler body allows passage through narrow doors.
- Body coated with electrostatic powder paint on galvanized sheet metal.
- 80 mm aluminum foil glass wool on the body, refractory concrete insulation resistant to 1450 C on the front cover.
- Silent operation.
- On-site manufacturing facilities.
- Complete sealing with special wick mechanism.
- Except for the two-pass combustion chamber, the pipes are bundled between the passes.
- Ease of installation and maintenance.
- There is no need to disassemble the burner with openable front covers.
- 3.1 certificated boiler tube compatible abundance 10217-2 norm.
- Compliance with national and International norms.



1	Installation Inlet Flange	6	Smoke Pipe (2nd Pass)
2	Chimney Outlet	7	Turbulator
3	Installation Return Flange	8	Cover
4	Burning Room (1st Pass)	9	Filling – Discharging Connection
5	Burner		



### TWG TECHNICAL SPECIFICATIONS

Model			TWG 80	TWG 100	TWG 150	TWG 175	TWG 200	TWG 250
Capacity		kcal/h	80.000	100.000	150.000	175.000	200.000	250.000
		KW	93	116	174	203	232	290
Width	A	mm	700	700	800	800	820	870
Length	L1	mm	1000	1000	1310	1310	1350	1385
Total Length	L	mm	1300	1300	1710	1710	1775	1825
Height	H1	mm	800	800	900	900	900	950
Total Height	H	mm	870	870	985	985	995	1045
Chimney Diameter	D	mm	220	220	220	220	220	300
Chimney Height	F	mm	580	580	630	630	660	660
Outwarp and Return	B	DN	1"1/2	2	65	65	65	65
Safety Connection	C	inch	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4
Filling and Draining	E	inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Operating Pressure		bar	4	4	4	4	4	4
Hydraulic Test Pressure		bar	6	6	6	6	6	6
Back Pressure		mbar	1	1	1,9	2,6	3,2	3,2
Anhydrous Weight		Kg	345	375	470	525	540	625

Model			TWG 300	TWG 350	TWG 400	TWG 450	TWG 500	TWG 600
Capacity	kcal/h		300.000	350.000	400.000	450.000	500.000	600.000
	KW		348	406	464	523	580	696
Width	A	mm	900	950	1000	1000	1000	1100
Length	L1	mm	1385	1510	1510	1510	1510	1740
Total Length	L	mm	1825	1940	1970	1970	1970	2280
Height	H1	mm	950	1000	1100	1100	1100	1200
Total Height	H	mm	1045	1090	1190	1190	1190	1290
Chimney Diameter	D	mm	300	300	300	300	300	350
Chimney Height	F	mm	660	675	760	790	790	860
Outwarp and Return	B	DN	65	80	80	80	80	100
Safety Connection	C	inch	1"1/4	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2
Filling and Draining	E	inch	3/4"	1"	1"	1"	1"	1"
Operating Pressure	bar		4	4	4	4	4	4
Hydraulic Test Pressure	bar		6	6	6	6	6	6
Back Pressure	mbar		3,3	3,3	3,5	3,5	4	4,5
Anhydrous Weight	Kg		645	800	820	850	900	1330

Model			TWG 700	TWG 800	TWG 1000	TWG 1250	TWG 1500	TWG 1750
Capacity	kcal/h		700.000	800.000	1.000.000	1.250.000	1.500.000	1.750.000
	KW		812	928	1.160	1.453	1.740	2034
Width	A	mm	1150	1250	1400	1400	1460	1500
Length	L1	mm	1740	1740	1940	1940	2265	2700
Total Length	L	mm	2280	2300	2500	2500	2860	3400
Height	H1	mm	1250	1350	1500	1500	1575	1750
Total Height	H	mm	1340	1430	1645	1645	1690	1850
Chimney Diameter	D	mm	350	350	400	400	400	450
Chimney Height	F	mm	905	980	1030	1030	1070	1100
Outwarp and Return	B	DN	100	100	125	125	150	150
Safety Connection	C	inch	1"1/2	1"1/2	65	65	65	80
Filling and Draining	E	inch	1"	1"	1 1/4"	1 1/4"	1 1/4"	1"1/2
Operating Pressure	bar		4	4	4	4	4	4
Hydraulic Test Pressure	bar		6	6	6	6	6	6
Back Pressure	mbar		5	5,2	5,5	6	6,5	6,8
Anhydrous Weight	Kg		1630	1915	1985	2200	2560	3000

Model			TWG 2000	TWG 2500	TWG 3000
Capacity	kcal/h		2.000.000	2.500.000	3.000.000
	KW		2.320	2.900	3.480
Width	A	mm	1720	1870	1870
Length	L1	mm	3000	3220	3800
Total Length	L	mm	3600	3850	4450
Height	H1	mm	1830	2000	2000
Total Height	H	mm	1950	2150	2150
Chimney Diameter	D	mm	450	450	450
Chimney Height	F	mm	1140	1215	1215
Outwarp and Return	B	DN	150	200	200
Safety Connection	C	inch	80	80	80
Filling and Draining	E	inch	1"1/2	1"1/2	1"1/2
Operating Pressure	bar		4	4	4
Hydraulic Test Pressure	bar		6	6	6
Back Pressure	mbar		7	8	8
Anhydrous Weight	Kg		3200	3850	4600

## MIT TLGC Series Three-Pass Condensing Hot Water Boilers



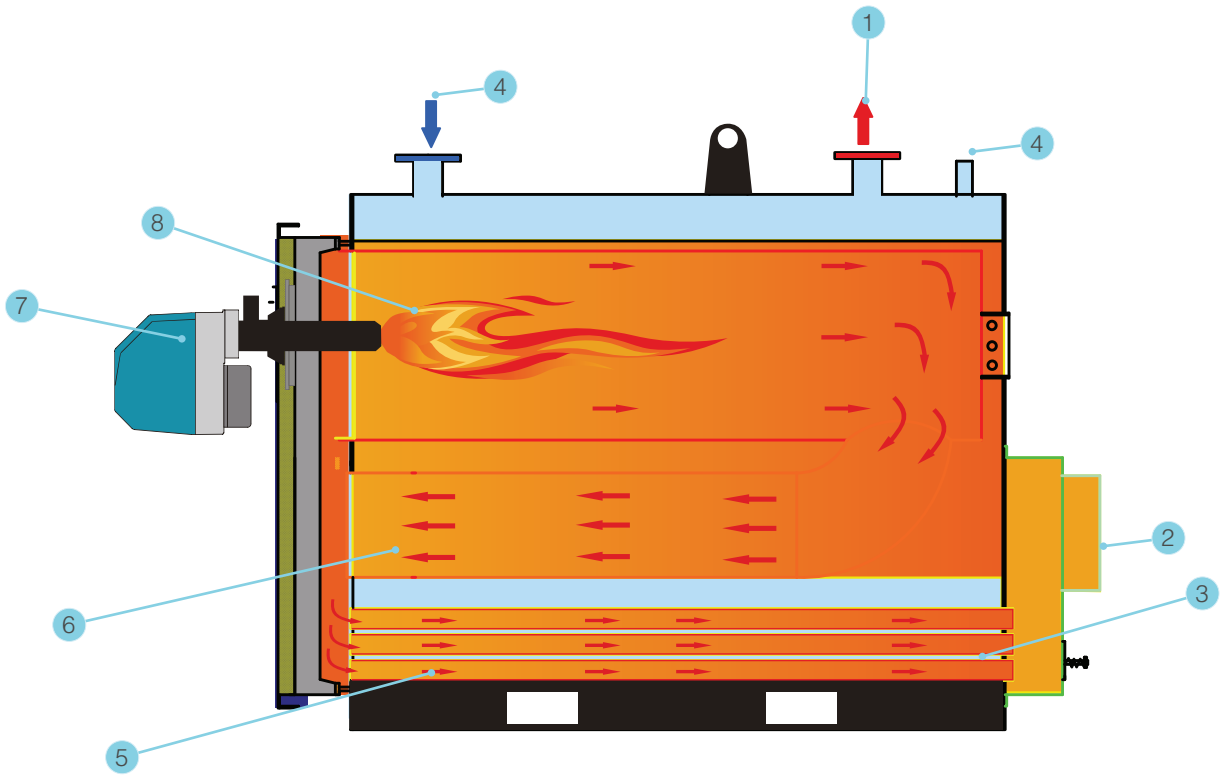
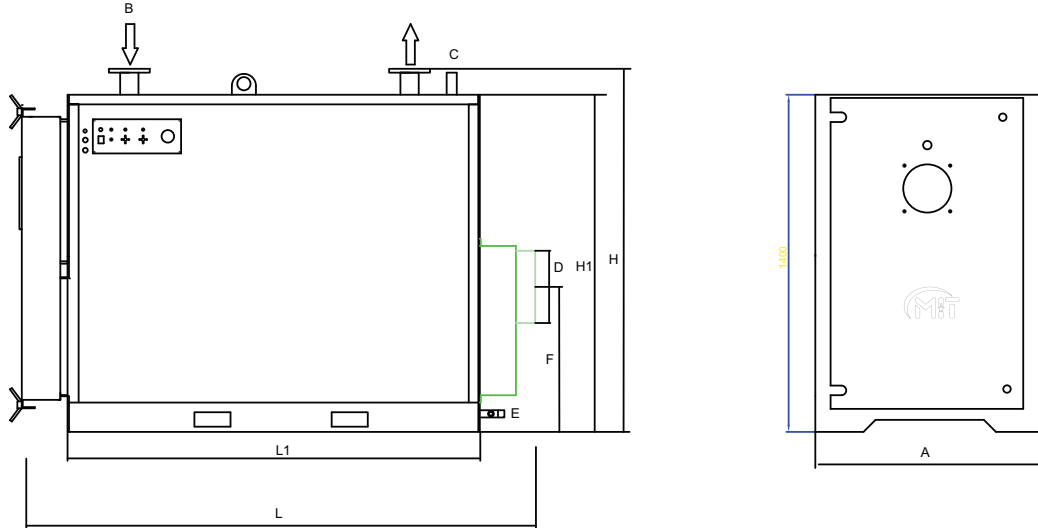
### MIT TLGC Series Three-Pass Condensing Hot Water Boilers

TLGC Series; Gas-fired floor-standing self-condensing steel-bodied boilers, it is specially designed for central heating systems where high combustion efficiency and long service life and operating economy come to the fore.

The operating temperatures at which TLGC boilers reach their highest efficiency are in the range of 50/30 °C. Condensation energy occurring in the third transition pipes of the boiler, it is transferred to the system through titanium alloy stainless steel pipes.

#### Features

- High combustion efficiency up to 108% (50/30 °C).
- All surfaces where condensation occurs contain 316 titanium alloyed stainless steel material.
- Special body design to discharge condensate water.
- Suitable for standard barrel burner use.
- Microprocessor control panel that acceptable control burner and pump system.
- Control panels offering comfort and economy together.(Optional)
- Standard operating pressure of 4 bars.
- Fully cylindrical boiler body.
- Body coated with electrostatic powder paint on galvanized sheet metal.
- 80 mm aluminum foil glass wool on the body, refractory concrete insulation resistant to 1450 C on the front cover.
- Production opportunity up to 8 bar on request.
- On-site manufacturing facilities.
- 3.1 certificated boiler tube compatible abidance 10217-2 norm.
- Compliance with national and International norms.



1	Installation Inlet Flange
2	Chimney Outlet
3	Condensation Surface
4	Installation Return Flange
5	Smoke Pipe (3rd Pass)
6	Smoke Pipe (2nd Pass)
7	Burner
8	Burning Room (1st Pass)



### TLGC TECHNICAL SPECIFICATIONS

Model			TLGC 200	TLGC 250	TLGC 300	TLGC 400
Capacity		kcal/h	200.000	250.000	300.000	400.000
		kW	232	290	348	464
Width	A	mm	820	850	850	950
Length	L1	mm	1300	1380	1380	1735
Total Length	L	mm	1650	1780	1780	2100
Length	H1	mm	1250	1250	1300	1400
Total Length	H	mm	1330	1330	1380	1480
Chimney Diameter	D	mm	220	300	300	300
Chimney Height	C	mm	430	430	450	500
Hot Water Trip	B	DN	65	65	65	80
Safety Connection	C	inch	1"1/4	1"1/4	1"1/4	1"1/4
Filling/Discharging	E	inch	3/4"	3/4"	3/4"	1"
Operating Pressure		bar	4	4	4	4
Back Pressure		mbar	2,8	3	3	3,4
Anhydrous Weight		Kg	625	710	825	1070
All areas where condensation occurs are stainless steel (Front and rear mirrors, smoke pipes, smoke chest)						

### TLGC TECHNICAL SPECIFICATIONS

Model			TLGC 500	TLGC 600	TLGC 700	TLGC 800
Capacity		kcal/h	500.000	600.000	700.000	800.000
		kW	580	696	812	928
Width	A	mm	1000	1000	1150	1250
Length	L1	mm	1735	1735	2000	2000
Total Length	L	mm	2100	2200	2200	2200
Length	H1	mm	1500	1500	1700	1800
Total Length	H	mm	1580	1580	1780	1900
Chimney Diameter	D	mm	300	350	350	350
Chimney Height	C	mm	580	580	630	630
Hot Water Trip	B	DN	80	100	100	100
Safety Connection	C	inch	1"1/4	1"1/2	1"1/2	1"1/2
Filling/Discharging	E	inch	1"	1"	1"	1"
Operating Pressure		bar	4	4	4	4
Back Pressure		mbar	4	4,3	4,8	5,7
Anhydrous Weight		Kg	1280	1500	1750	2150
All areas where condensation occurs are stainless steel (Front and rear mirrors, smoke pipes, smoke chest)						

## MIT TLGS Series Three-Pass Superheated Water Boilers

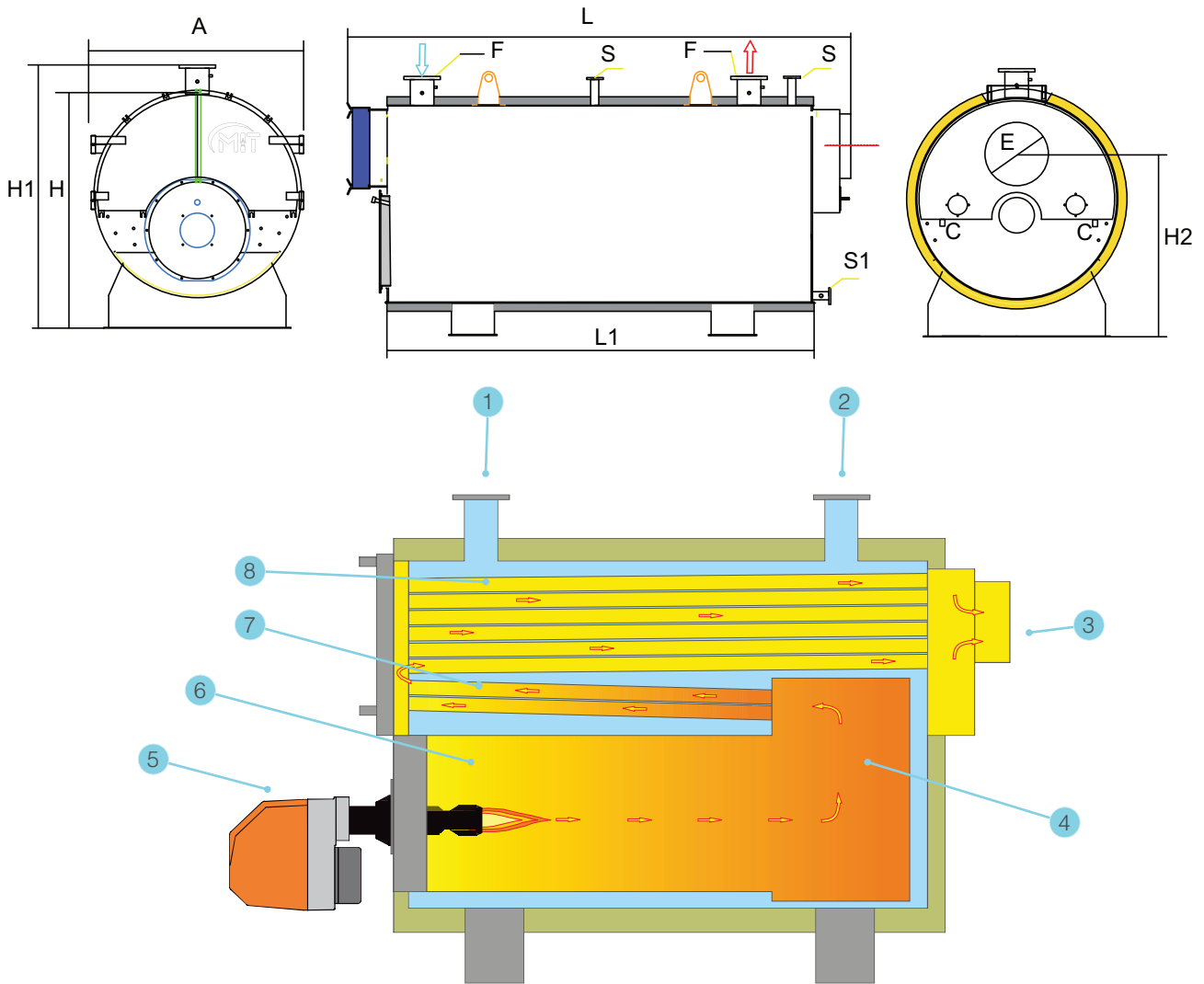


### MIT TLGS Series Three-Pass Superheated Water Boilers

TLGS Series; Three-pass liquid and gas fueled steel hot water boilers have been offering trouble-free operation, high combustion efficiency and low flue gas emission values for many years in our country and around the world. The Scotch type TLGS model is specially designed for central heating systems.

#### Features

- High combustion efficiency up to 95%.
- Window type flame crushers in smoke pipes (turbulators).
- Suitable for standard barrel burner use.
- Microprocessor control panel that can control burner and pump system.
- Control panels offering comfort and economy together.(Optional)
- Standard operating pressure 4 bars.
- Fully cylindrical boiler body.
- Aluminum embossed sheet metal coating.
- 80 mm thick mineral based insulation material on the body.
- Production opportunity up to 10 bar on request.
- On-site manufacturing facilities.
- Ease of installation and maintenance with walkable boiler top sheet.
- Front covers can be opened without the need to disassemble the burner.
- Return water diverter plate.
- 3.1 certificated boiler tube compatible abidance 10217-2 norm.
- Compliance with national and International norms.



1	Installation Inlet Flange
2	Installation Return Flange
3	Chimney Outlet
4	Furnace Firebox
5	Burner
6	Burning Room (1st Pass)
7	Smoke Pipe (2nd Pass)
8	Smoke Pipe (3rd Pass)



TLGS TECHNICAL SPECIFICATIONS								
Model			TLGS 1000	TLGS 1250	TLGS 1500	TLGS 1750	TLGS 2000	TLGS 2500
Capacity		kcal/h	1.000.000	1.250.000	1.500.000	1.750.000	2.000.000	2.500.000
		kW	1.163	1.454	1.744	2.035	2.326	2.907
Width	A	mm	1700	1700	1750	1800	1800	1900
Height	H	mm	1800	1800	1900	2100	2100	2150
Height	H1	mm	1950	1950	2050	2250	2250	2300
Length	L	mm	2450	2450	2550	2800	2800	3000
Foot Length	L1	mm	1970	1970	2100	2250	2250	2450
Chimney Diameter	E	mm	400	400	450	450	500	500
Chimney Height	H <sup>2</sup>	mm	1300	1300	1400	1450	1450	1500
Hot Water Trip (PN 16)	F	DN	125	125	150	150	150	200
Water Volume		lt	1600	1800	2500	2900	3250	3700
Anhydrous Weight		kg	2600	2900	3500	4200	4700	4950
Safety Trip	S	inch	65	65	65	80	80	80
Filling/Draining	S1	inch	11/4"	11/4"	11/4"	11/2"	11/2"	11/2"
Condensation Drain	C	inch	3/4"	3/4"	1"	1"	1"	11/4"
Back Pressure		mbar	5,5	6	6,5	6,8	7	7,2
Operation Pressure		bar	6	6	6	6	6	6

TLGS TECHNICAL SPECIFICATIONS							
Model			TLGS 3000	TLGS 3500	TLGS 4000	TLGS 4500	TLGS 5000
Capacity		kcal/h	3.000.000	3.500.000	4.000.000	4.500.000	5.000.000
		kW	3.489	4.070	4.652	5.233	5.815
Width	A	mm	2000	2200	2200	2300	2450
Height	H	mm	2300	2500	2600	2700	2750
Height	H1	mm	2450	2650	2750	2850	2900
Length	L	mm	3000	4150	4650	5200	6500
Foot Length	L1	mm	2450	3550	4000	4500	4750
Chimney Diameter	E	mm	550	550	600	600	700
Chimney Height	H <sup>2</sup>	mm	1600	1750	1750	1850	1950
Hot Water Trip (PN 16)	F	DN	200	200	200	200	200
Water Volume		lt	5250	5900	6800	7400	9300
Anhydrous Weight		kg	5500	6300	7000	7500	8500
Safety Trip	S	inch	80	80	100	100	100
Filling/Draining	S1	inch	11/2"	2"	2"	2"	2"
Condensation Drain	C	inch	11/4"	11/4"	11/2"	11/2"	11/2"
Back Pressure		mbar	7,8	8	8,2	8,3	8,5
Operation Pressure		bar	6	6	6	6	6

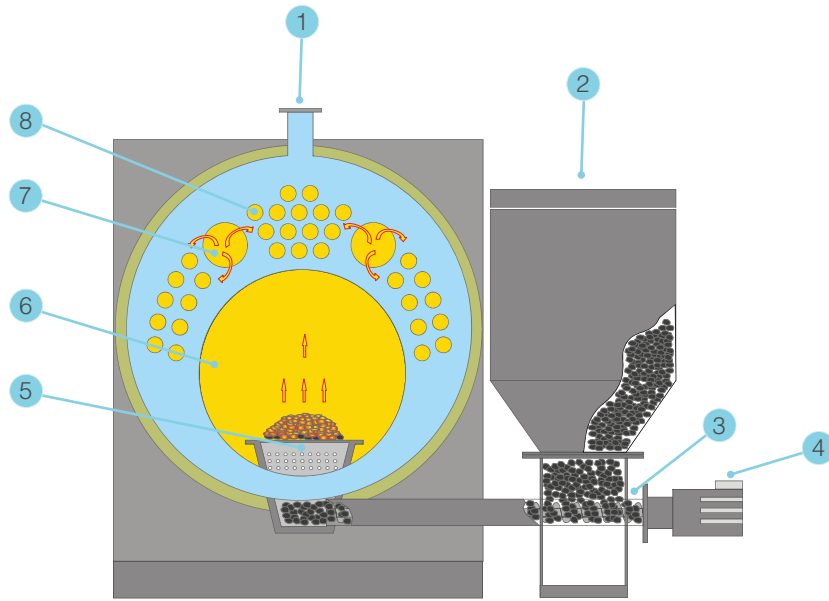
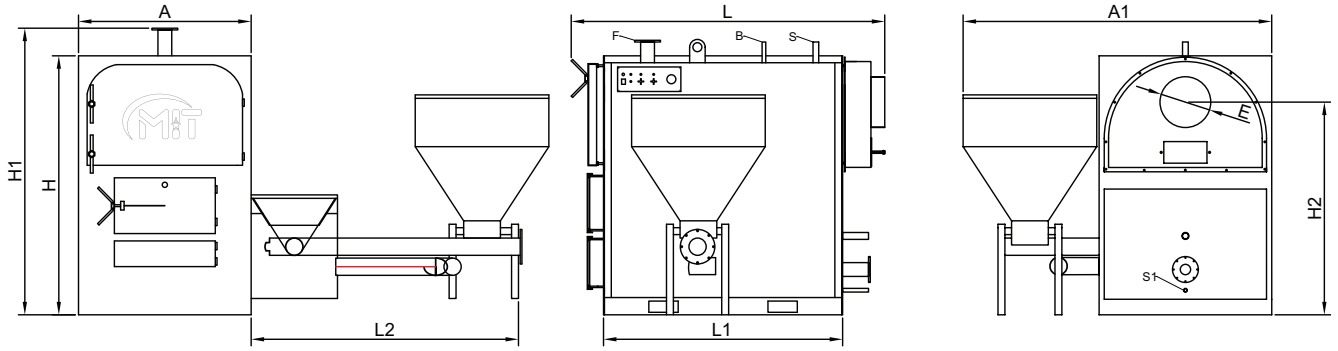


## MIT SFS Series Solid Fuel Fired Three-Pass Automated Loaded (Stoker) Hot Water Boilers

SFS Series; Three-pass, solid fuel, automatic loading (stoker) steel hot water boilers are specially designed for central heating systems with low operating costs and long service life. In SFS model boilers; With the automatic fuel loading system, fuel is loaded from the bottom via the screw, while combustion continues at the top. With the special design of the spiral loading system, the passage of smoke from the spiral pipe to the bunker is prevented and efficient combustion is ensured.

### Features

- High combustion efficiency up to 85%.
- Environmentally friendly design with low gas emission values.
- Protection against all kinds of outer effect with steel construction in prismatic structure.
- Coating with electrostatic power paint on galvanized sheet.
- Standard operating pressure 3 bars.
- Production amount up to 8 bar.
- Full cylindrical boiler review.
- State-of-the-art manufacturing techniques.
- Use of 3.1 certificated boiler tube compatible with 10217-2 norm.
- Mobile and removable bunker towards protection against coal jamming.
- Extensive service network.
- Compliance with national and International norms.



1	Installation Putlet Flange
2	Bunker
3	Helical Shaft
4	Reducer
5	Pot
6	Burning Room (1st Pass)
7	Smoke Pipe (2nd Pass)
8	Smoke Pipe (3rd Pass)



### SFS TECHNICAL SPECIFICATIONS

Model			SFS 100	SFS 125	SFS 150	SFS 175	SFS 200	SFS 250	SFS 300
Capacity		kcal/h	100.000	125.000	150.000	175.000	200.000	250.000	300.000
		kW	115	145	174	204	233	291	349
Width	A	mm	1000	1000	1000	1000	1200	1200	1300
Width	A1	mm	1750	1750	1750	1750	2000	2000	2100
Height	H	mm	1500	1500	1500	1500	1650	1650	1750
Height	H1	mm	1650	1650	1650	1650	1800	1800	1900
Length	L	mm	1650	1650	1750	1800	1880	2000	2300
Foot Length	L1	mm	1300	1300	1375	1375	1420	1515	1700
Bunker Exit Distance	L2	mm	700	700	750	750	800	800	900
Chimney Diameter	E	mm	250	250	250	250	300	300	300
Chimney Height	H2	mm	1170	1170	1170	1170	1250	1250	1300
Hot Water Trip (PN 16)	F	DN	50	50	65	65	65	65	65
Water Volume		lt	400	490	600	650	750	800	950
Anhydrous Weight		kg	1280	1350	1400	1500	1750	2000	2280
Safety Trip	S	inch	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
Manometer Sleeve	B		1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Filling/Discharging	S1	inch	3/4"	3/4"	3/4"	3/4"	1"	1"	1"
Bunker Capacity		lt	200	250	250	250	350	350	350
Fan Model			BDS1M	BDS1M	BDS1M	BDS1M	BDS2M	BDS2M	BDS2M
Fan Flow		m³	800	800	800	800	1700	1700	1700
Gearhead Power		kW	0,75	0,75	0,75	0,75	0,75	1,1	1,1
Fan and Reducer Operating Voltage(three hase)		V	220	220	220	220	220	220	220
Operational Pressure		bar	3	3	3	3	3	3	3

### SFS TECHNICAL SPECIFICATIONS

Model			SFS 350	SFS 400	SFS 450	SFS 500	SFS 600	SFS 700	SFS 800
Capacity		kcal/h	350.000	400.000	450.000	500.000	600.000	700.000	800.000
		kW	407	465	523	581	698	814	930
Width	A	mm	1300	1400	1500	1500	1600	1750	2000
Width	A1	mm	2100	2400	2500	2700	2800	3200	3350
Height	H	mm	1750	2000	2000	2000	2250	2350	2350
Height	H1	mm	1900	2150	2150	2150	2400	2500	2500
Length	L	mm	2400	2400	2400	2600	2600	2750	2750
Foot Length	L1	mm	1750	1750	1750	1850	1850	2000	2000
Bunker Exit Distance	L2	mm	900	1000	1000	1200	1200	1500	1500
Chimney Diameter	E	mm	300	350	350	350	400	400	400
Chimney Height	H2	mm	1300	1425	1425	1425	1550	1600	1600
Hot Water Trip (PN 16)	F	DN	80	80	80	80	100	100	100
Water Volume		lt	1200	1450	1600	1800	2150	2350	2550
Anhydrous Weight		kg	2470	2700	2820	3180	3690	3900	4500
Safety Trip	S	inch	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"
Manometer Sleeve	B		1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Filling/Discharging	S1	inch	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
Bunker Capacity		lt	350	400	400	400	600	600	800
Fan Model			BDS3M	BDS3M	BDS3M	BDS4M 90	BDS4M 90	BDS4M 90	BDS4M102
Fan Flow		m³	2100	2100	2100	2600	2600	2600	3200
Gearhead Power		kW	1,1	1,1	1,1	1,1	1,1	1,1	1,1
Fan and Reducer Operating Voltage(three hase)		V	220	220	220	220	220	220	220
Operational Pressure		bar	3	3	3	3	3	3	3

## MIT SFM Series Solid Fuel Fired Three-Pass Manual Loaded Hot Water Boilers



### MIT SFM Series Solid Fuel Fired Three-Pass Manual Loaded Hot Water Boilers

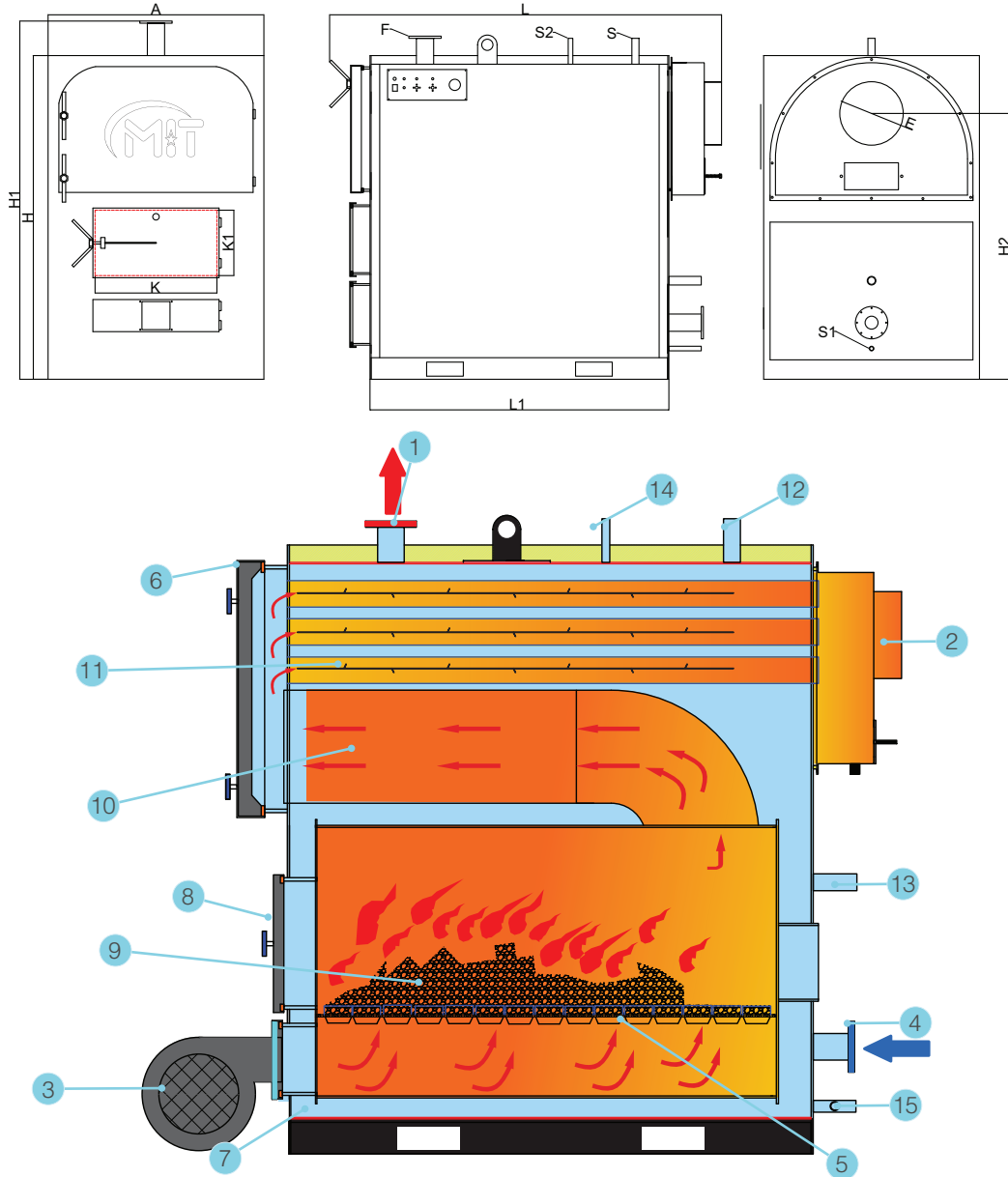
SFM Series; Solid fuel manually loaded hot water boilers are produced with three passes. With its three-pass design, it distributes the heat obtained equally to all surfaces, providing maximum heat transfer and fuel savings. Combustion air is provided with the help of a thermostat-controlled fan. The air obtained from the fan located in the front section of the boiler is transferred homogeneously to the combustion chamber. The flame in the combustion chamber is carried to the front through the second passage pipes at the back of the stove. These hot gases coming to the front smoke chest are carried to the rear smoke box through smoke pipes and from there they go to the chimney.

### Features

- High combustion efficiency up to 85%.
- Low gas emission values with eco-friendly design.
- Protection against all kinds of outer effect with steel construction in prismatic structure.
- Coating with electrostatic power paint on galvanized sheet.
- Standard operating pressure 3 bars.
- Production amount up to 8 bar.
- Full cylindrical boiler body.
- State-of-the-art manufacturing techniques.
- Use of 3.1 certificated boiler tube compatible with 10217-2 norm.
- Common service network.
- Compliance with national and International norms.



SFM-4P Solid Fuel Four Pass Manual Loading Floor Heater is produced optionally.  
SFM-4PFB Solid Fuel Four-Pass Fully Baffle Manually Loaded Floor Heater is produced optionally.



1	Installation Putlet Flange
2	Chimney Outlet
3	Fan
4	Installation Return Flange
5	Grate
6	Top Cleaning Cover
7	Ash Cover
8	Fuel Feeding Cover
9	Burning Room (1st Pass)
10	Smoke Pipe (2nd Pass)
11	Smoke Pipe (3rd Pass)
12	Open Expansion Putlet (Safety)
13	Open Expansion Return
14	Hydrometer Connection Pipe
15	Filling Discharge Pipe

SFM TECHNICAL SPECIFICATIONS									
Model			SFM 100	SFM 125	SFM 150	SFM 175	SFM 200	SFM 250	SFM 300
Capacity		kcal/h	100.000	125.000	150.000	175.000	200.000	250.000	300.000
		kW	116	145	174	204	233	291	349
Width	A	mm	1000	1000	1000	1000	1200	1200	1300
Height	H	mm	1500	1500	1500	1500	1650	1650	1750
Height	H1	mm	1650	1650	1650	1650	1800	1800	1900
Length	L	mm	1650	1650	1750	1800	1880	2000	2300
Foot Length	L1	mm	1300	1300	1375	1375	1420	1515	1700
Chimney Diameter	E	mm	250	250	250	250	300	300	300
Chimney Height	H2	mm	1170	1170	1170	1170	1250	1250	1300
Hot Water Trip (PN16)	F	DN	2"	50	65	65	65	65	65
Water Volume		lt	400	490	550	620	680	770	890
Anhydrous Weight		kg	750	800	910	975	1030	1370	1480
Safety Trip	S	inch	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
Filling/Discharging	S1	inch	1/2"	3/4"	3/4"	3/4"	1"	1"	1"
Indicator Sleeve	S2	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Fuel Loading Cap	KxK1	mm	500X300	500/300	500/300		600/350	600/350	600/350
Fan Model		m³	BDS1M	BDS1M	BDS1M	BDS1M	BDS2M	BDS2M	BDS2M
Fan Flow		V	800	800	800	800	1700	1700	1700
Fan Operating Voltage (Three-hase)		bar	220	220	220	220	220	220	220
Operation Pressure		bar	3	3	3	3	3	3	3

SFM TECHNICAL SPECIFICATIONS									
Model			SFM 350	SFM 400	SFM 450	SFM 500	SFM 600	SFM 700	SFM 800
Capacity		kcal/h	350.000	400.000	450.000	500.000	600.000	700.000	800.000
		kW	407	465	523	581	698	814	930
Width	A	mm	1300	1400	1500	1500	1600	1750	2000
Height	H	mm	1750	2000	2000	2000	2250	2350	2350
Height	H1	mm	1900	2150	2150	2150	2400	2500	2500
Length	L	mm	2400	2400	2400	2600	2600	2750	2750
Foot Length	L1	mm	1750	1750	1750	1850	1850	2000	2000
Chimney Diameter	E	mm	300	350	350	400	400	400	400
Chimney Height	H2	mm	1300	1425	1425	1425	1550	1600	1600
Hot Water Trip (PN16)	F	DN	80	80	80	80	100	100	100
Water Volume		lt	1100	1250	1380	1570	1680	1800	2100
Anhydrous Weight		kg	1680	1990	2180	2330	2800	3030	3350
Safety Trip	S	inch	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"
Filling/Discharging	S1	inch	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
Indicator Sleeve	S2	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Fuel Loading Cap	KxK1	mm	700/350	700/350	700/350	700/350	750/400	750/400	759/400
Fan Model		m³	BDS3M	BDS3M	BDS3M	BDS4M 90	BDS4M 90	BDS4M 90	BDS4M102
Fan Flow		V	2100	2100	2100	2600	2600	2600	3200
Fan Operating Voltage (Three-hase)		bar	220	220	220	220	220	220	220
Operation Pressure		bar	3	3	3	3	3	3	3

## MIT FBS Series Solid Fuel Fired Three-Pass Manual Loaded (Stoker) Room Heater



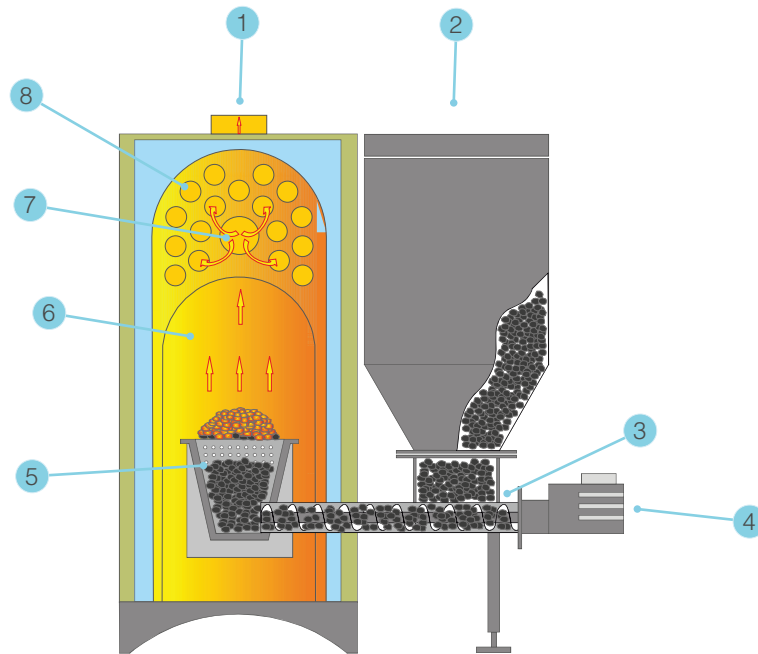
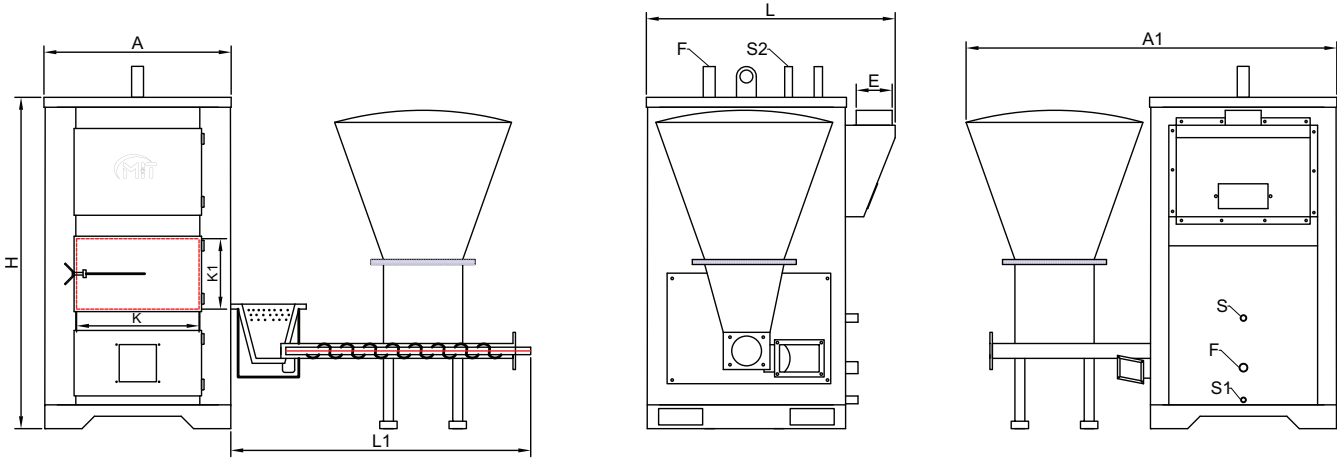
### MIT FBS Series Solid Fuel Fired Three-Pass Manual Loaded (Stoker) Room Heater

FBS Series; Solid fuel automatic loading floor heaters are produced with three passes. It is produced in 4 different types with a capacity range of 25,000 kcal/h (29 kW) and 80,000 kcal/h (93 kW). Since all the fuel comes into contact with air with the fan-controlled combustion system, the rate of unburned coal is very low. Thanks to its three-pass design, it is designed to burn low-calorie domestic coal and wood type fuels in a highly efficient and environmentally friendly manner. It provides maximum heat transfer and fuel savings by distributing the resulting heat equally to all surfaces. With the automatic fuel loading system, fuel loading is carried out from the bottom via the screw, while combustion continues at the top. With the special design of the spiral loading system, the passage of smoke from the screw pipe to the bunker is prevented and efficient combustion is ensured. At the same time, fuel consumption is reduced since there is no underloading or overloading due to burner errors.

### Features

- High combustion efficiency up to 82%.
- Suitable for burning lignite coal in sizes 10-25 mm.
- Ignition, ash disposal and cleaning easiness with three different cover design.
- Adjustable caps with custom-designed cover handle and hinge structure.
- Combustion safety and fume resistance with locking lid and combustion safety.
- Low gas emission values with eco-friendly design.
- Protection against all kinds of outer effect with steel construction in prismatic structure.
- Coating with electrostatic power paint on galvanized sheet.
- Standard operating pressure 2 bars.
- Ease of maintenance with detachable bunker.
- On the reducer for coal jams.
- Switch providing forward and reverse movement.
- Use of 3.1 certificated boiler tube compatible with 10217-2 norm.
- Common service network.
- State-of-the-art manufacturing techniques.
- Compliance with national and International norms.





1	Chimney Outlet
2	Bunker
3	Screw Shaft
4	Reducer
5	Pot
6	Burning Room (1st Pass)
7	Smoke Pipe (2nd Pass)
8	Smoke Pipe (3rd Pass)

**FBS-4P Solid Fuel Four-Pass Fully Automatic Floor Heater is produced optionally.**



## FBS TECHNICAL SPECIFICATIONS

Model			FBS 25	FBS 40	FBS 60	FBS 80
Capacity		kcal/h	25.000	40.000	60.000	80.000
		kW	29	47	70	93
Width	A	mm	650	750	750	850
Width	A1	mm	1150	1250	1350	1450
Height	H	mm	1100	1100	1300	1350
Length	L	mm	850	900	1000	1050
Bunker Exit Distance	L1	mm	900	1000	1200	1200
Chimney Diameter	E	mm	150	150	150	150
Hot Water Trip	F	inch	1 1/4 "	1 1/4"	1 1/2"	1 1/2"
Safety Trip	S	inch	3/4"	3/4"	3/4"	1"
Filling/Discharging	S1	inch	1/2"	1/2"	1/2"	1/2"
Indicator Sleeve	S2	inch	1/2"	1/2"	1/2"	1/2"
Water Volume		lt	110	130	160	220
Anhydrous Weight		kg	310	390	450	530
Bunker Capacity		lt	150	150	250	300
Fan Model			125	125	140	140
Fan Flow		m³	250	250	485	485
Fan Engine Power		watt	80	80	138	138
Operating Voltage (Mono-Phase)		V	230-50Hz	230-50Hz	230-50Hz	230-50Hz
Gearhead Power		kW	0,37	0,37	0,37	0,75
Fan and Reducer Operating Voltage (Mono-Phase)		V	230-50Hz	230-50Hz	230-50Hz	230-50Hz
Operating Pressure		bar	2	2	2	2

## MIT FBM Series Solid Fuel Fired Three-Pass Manual Loaded Room Heater

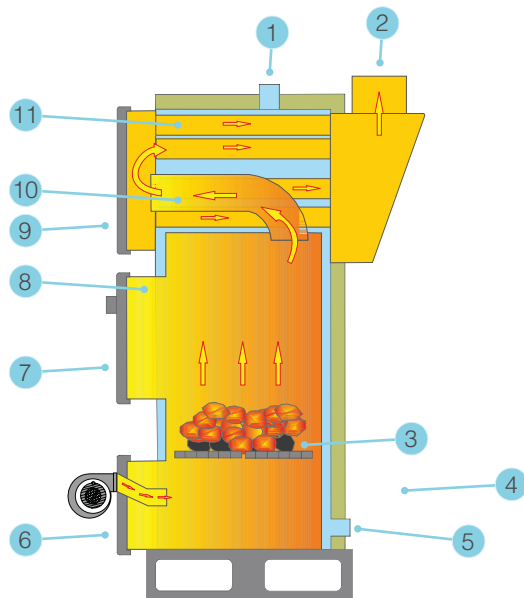
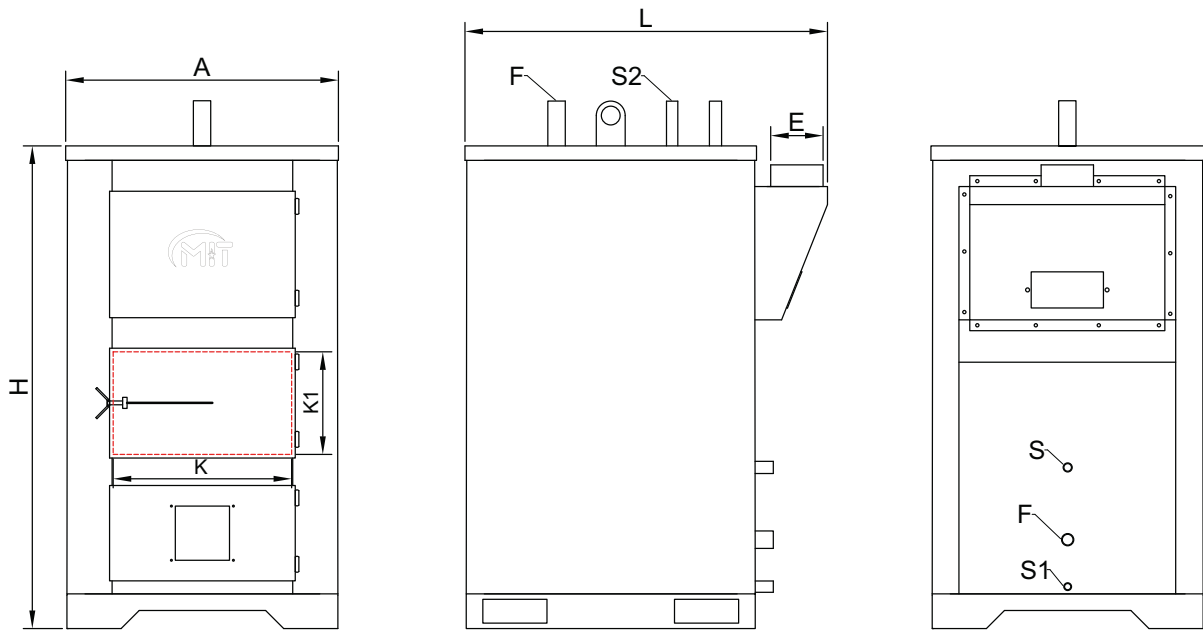


### MIT FBM Series Solid Fuel Fired Three-Pass Manual Loaded Room Heater

FBM Series; Solid fuel manual floor heaters are produced with three passes. Production is made in 4 different types in the capacity range of 25,000 kcal/h (29 kW) to 80,000 kcal/h (93 kW). The heat obtained with its three-pass design, by distributing it equally to all surfaces, maximum heat transfer and fuel savings are achieved. Since all the fuel comes into contact with air with the fan-controlled combustion system, the rate of unburned coal is very low. In this way, ideal combustion is ensured.

#### Features

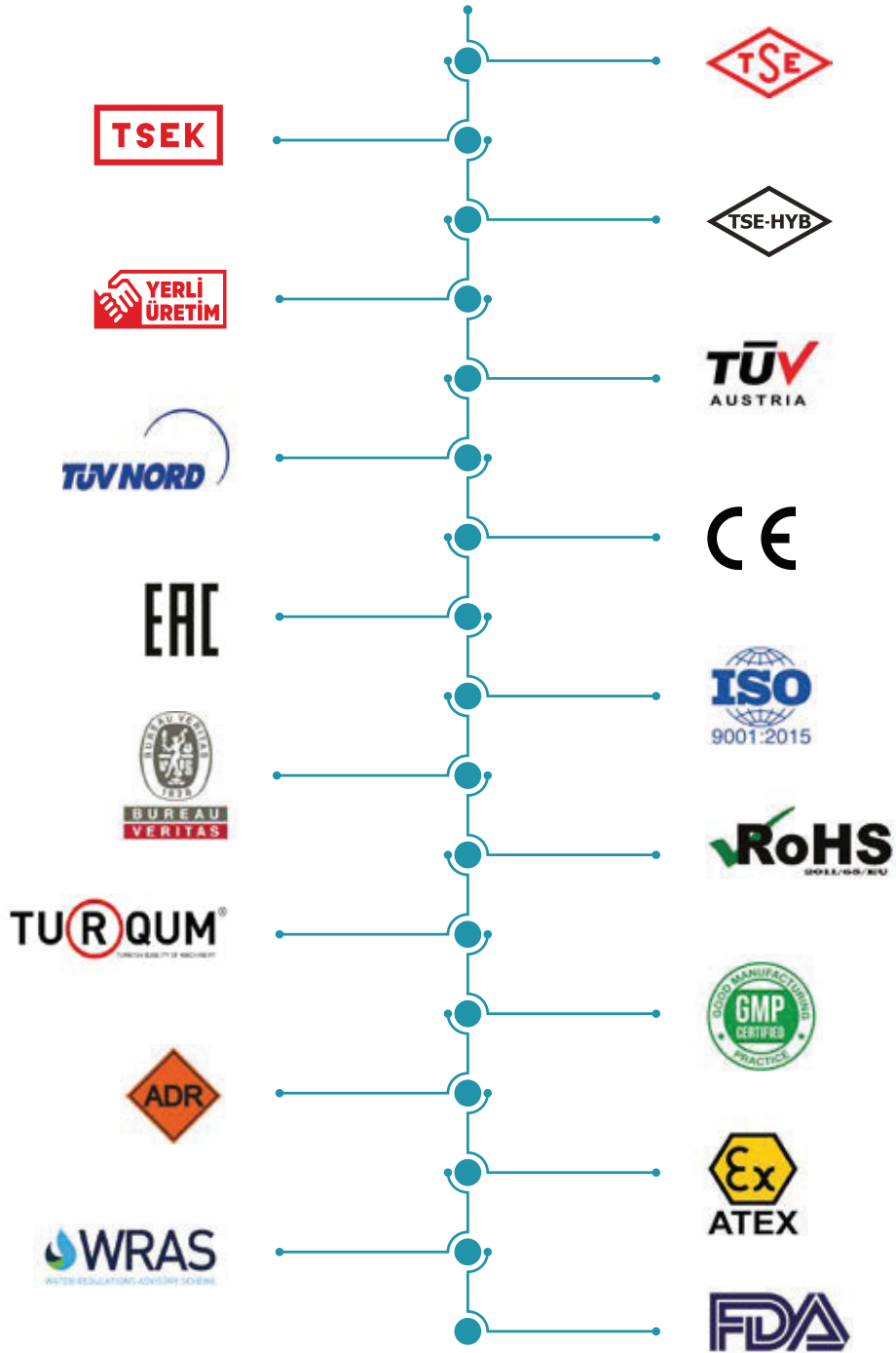
- High combustion efficiency up to 82%.
- Wide combustion chamber suitable for coal, lignite coal and wood burning.
- Fuel loading, ash disposal and cleaning easiness with three different cover design.
- Adjustable caps with custom-designed cover handle and hinge structure.
- Combustion safety and fume resistance with locking lid and combustion safety.
- Low gas emission values with eco-friendly design.
- Protection against all kinds of outer effect with steel construction in prismatic structure.
- Coating with electrostatic power paint on galvanized sheet.
- Standard operating pressure 2 bars.
- Except for the three-pass combustion chamber, the inter-pass tubes are bundled.
- Use of 3.1 certificated boiler tube compatible with 10217-2 norm.
- Extensive service network.
- State-of-the-art manufacturing techniques.
- Compliance with national and International norms.



1	Installation Outlet Sleeve
2	Chimney Outlet
3	Cast Grill
4	Fan
5	Installation Return Sleeve
6	Ash Cover
7	Feed Cover
8	Burning Room (1st Pass)
9	Cleaning Cover
10	Smoke Pipe (2nd Pass)
11	Smoke Pipe (3rd Pass)

FBM TECHNICAL SPECIFICATIONS						
Model			FBM 25	FBM 40	FBM 60	FBM 80
Capacity		kcal/h	25.000	40.000	60.000	80.000
		kW	29	47	70	93
Weight	A	mm	650	750	750	850
Height	H	mm	1100	1100	1300	1350
Length	L	mm	850	900	1000	1050
Chimney Diameter	E	mm	145	145	145	145
Hot Water Trip	F	inch	1 1/4 "	1 1/4"	1 1/2"	1 1/2"
Water Volume		lt	110	130	160	220
Anhydrous Weight		kg	310	390	450	530
Safety Trip	S	inch	3/4"	3/4"	3/4"	1"
Filling/Discharging	S1	inch	1/2"	1/2"	1/2"	1/2"
Indicator Sleeve	S2	inch	1/2"	1/2"	1/2"	1/2"
Fuel Loading Cover	KxK1	mm	365 -260	470 - 260	470-260	545-290
Fan Modei		kW	125	125	140	140
Fan Flow		m³	250	250	485	485
Fan Engine Power		watt	80	80	138	138
Operating Voltage(Mono-Phase)		V	230-50Hz	230-50Hz	230-50Hz	230-50Hz
Operating Pressure		bar	2	2	2	2

# QUALITY MANAGEMENT SYSTEM



Ekin Heating and Cooling Endüstriyel Co. applies engineering approach; to focus on the process, not the problem; respectively, not only specializes in concerned products, but also take the entire aspects of the product, into consideration. Therefore, alongside the plate heat exchanger, Ekin has the capability to produce all other components to form a system. Advanced quality control structure are fully equipped, in order to present the products with a quality that goes beyond the acceptable regulations and standards.

With respect to "ISO 9001: 2015 Quality Management System" certification, which covers all processes from production, domestic / international sales and after-sales services, aiming at continuous improvement, respecting optimum results. With our expert engineers and solution-oriented approaches, the products have been certified with TSE, CE, Rosh and FDA quality certificates.





### **A chain is only as strong as its weakest link.**

Running and maintaining a quality production process that meets international standards requires focusing on quality all along the ecosystem. Maintaining this focus requires a unifying vision of constant improvement shared by all stakeholder, and a certain level of expertise for all parties involved. Ekin Academy was established with the principles of continuous development and growing together to share the knowledge and experience that will realize this vision.

We support the development of our employees with training programs that directly contribute to the results in their business processes and make a difference in their personal development. We offer technical trainings on heat transfer, pressure vessels, package systems, food systems and liquid transfer. We help them become individuals who will make a difference with our development programs that covers topics like leadership, strategy, sales and many more. In addition, we provide information regarding installation, operating, maintenance and repairs with our pre and after sales training modules prepared for our business partners and customers.

At Ekin Academy we do not solely focus on the development of our staff, partners and customers. Thanks to our university collaborations, we provide the means for future engineers to put their theoretical knowledge to use with practical applications.



We organize seminars, conferences and trainings for professional chambers, and institutions we collaborate on social responsibility projects. Because we know that only by investing in the society, the industry and the future of the industry, we can become a country known for its high-quality engineering products.



## Sales Team

### An Engineering Approach from Sales to Maintenance

We offer value added pre and after sale services with our customer satisfaction-oriented approach and deep expertise we are more than happy to share. Thanks to our expert engineers that provide proactive solutions, we focus on making a difference throughout the process, from presales to maintenance.

With our “quality product, quality service, quality solution” approach, we are more than a manufacturer and supplier, we are a highly motivated solution partner for all kinds of heating and cooling projects.



#### Customer Satisfaction



Our priority is to ensure customer satisfaction and protect the rights of our customers with our pre-sales processes that analyze customer needs well, quality-registered product range, expert staff and meticulous working methods.

#### Ethical Values



We conduct all our activities in accordance with the laws and then with ethical values. We believe in growing together and we look for mutual benefit in all our business relationships.

#### Privacy Policy



All your personal information shared with our company is guaranteed by our ethical values and our processes in compliance with the Law No. 6698 on Protection of Personal Data.

#### Information Security



All our information technology operations are protected by our information security processes, which are managed in accordance with ISO 27001 Information Security Management System requirements.

## Professional System Solution Center

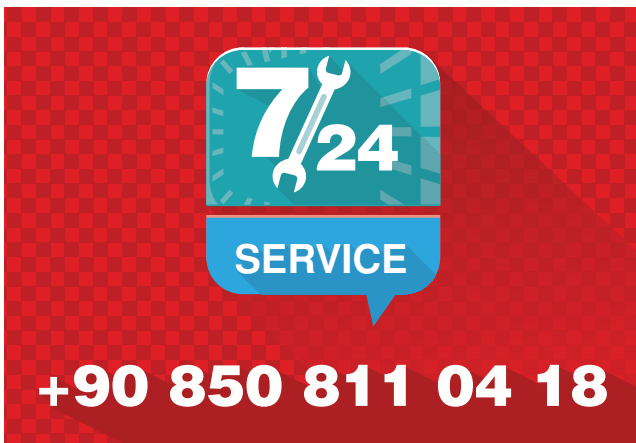
From our MIT professional system solution center, you can get help with problems with your pumps, heat exchangers and your system. Our solution center consisting of our expert engineers will be happy to help you.

- Domestic hot water installations.
- Central and district heating systems.
- Milk, yogurt, 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.

 Producer; reserves the right to change the product features, technical dimensions and information and installation diagrams specified in this catalog without notice. No specified information can be copied and used without the permission of the manufacturer. In no way can the manufacturer be held responsible by giving examples of technical information and diagrams. In case of need, we request you to request a special technical drawing for your project for exact dimensions.

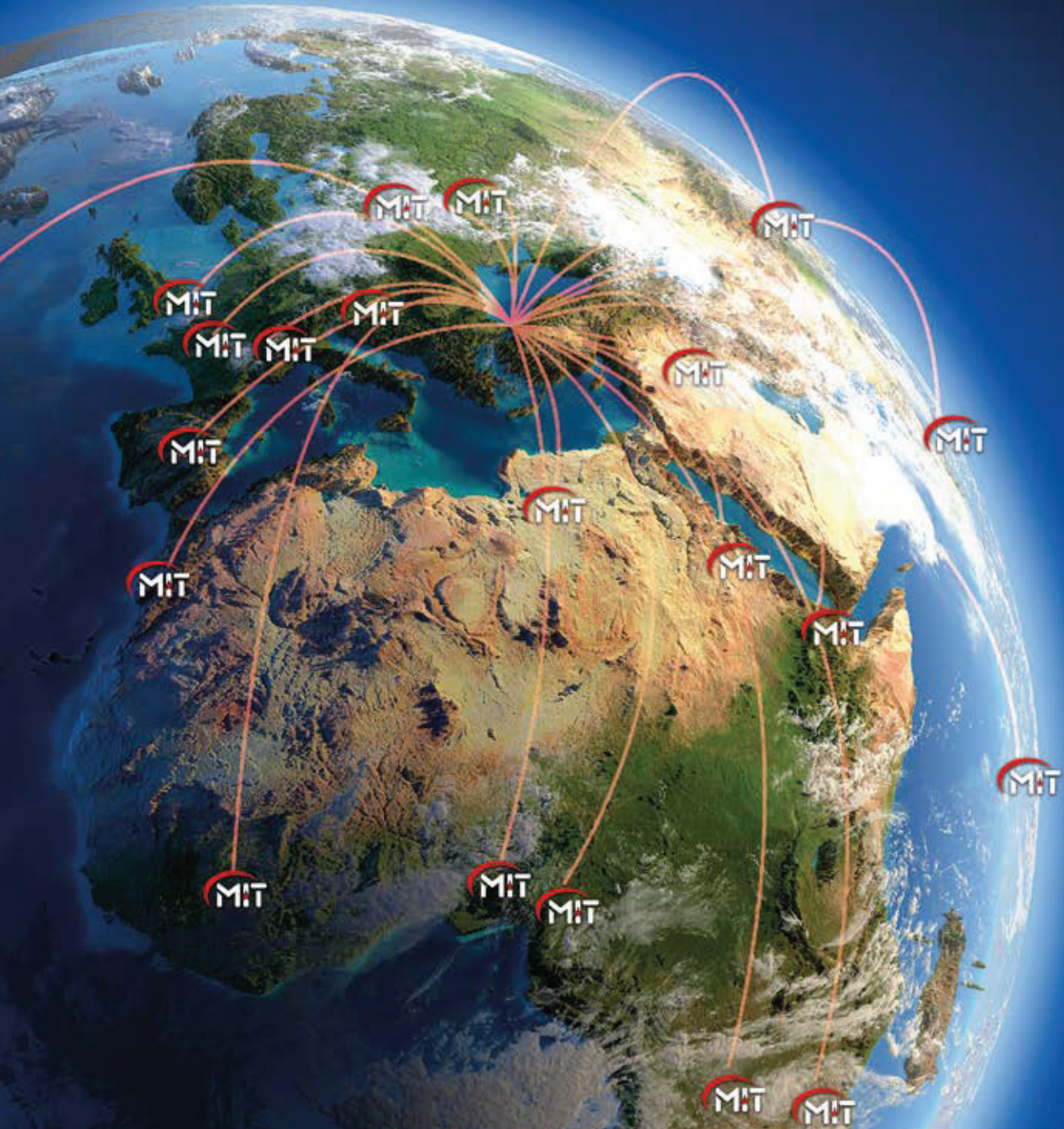


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