

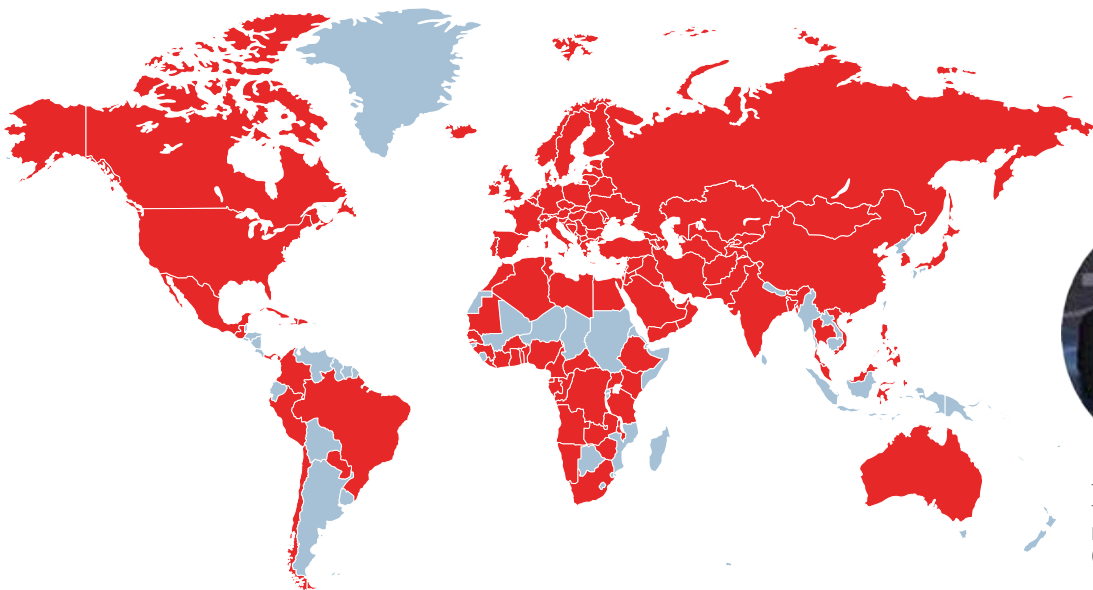


# **AIR TUBE PRODUCT CATALOG**

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Your Satisfaction Is Our Priority;  
Globalization Is Our Goal!



The 2nd Company from  
Türkiye Exporting to the  
Highest Number of Countries  
(ISIB 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
- Heating Coils
- Serpentine / Radiators / Economizers

## PRESSURE VESSELS

- Water Heater Tanks
- Water Storage Tanks
- Buffer Tanks
- Expansion Tanks / Automatic Pump Controlled Expansion Systems
- Stainless Steel Tanks
- Hydraulic Balance Tanks / Air Separators / Sediment Separators
- Magnetic Sediment Separators / Magnetic Filters / Bag Filters
- Air Tubes
- Steam Separators
- Pressured Air Tanks
- Neutralization Units

## INDUSTRIAL AND FOOD GRADE SYSTEMS

- Heat Stations
- Industrial Process Systems
- Dosing Systems
- Thermoregulators
- Pasteurizers
- CIP and Hygienic Process Systems
- Hygienic Storage and Process Tanks
- Custom-Made Stainless Steel Tanks
- Reactors
- Homogenizers

## 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

## 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





## General Description

As Ekin Endüstriyel, our fundamental principle is to provide reliable, efficient, and long-lasting solutions in heating, cooling, and mechanical installation systems. In line with this, the MIT-HT series air tube have been designed to effectively eliminate air problems occurring in closed circuit heating and hot water systems.

The air tube collect and safely discharge dissolved or free air within the system, improving the efficiency of the installation, reducing the risk of corrosion, and extending the operational life. Our products, manufactured within the framework of Ekin Endüstriyel's engineering infrastructure and quality standards, are available in various capacities and sizes, making them suitable for a wide range of applications.

The MIT-HT Series air tube featured in this catalog are presented with their technical specifications, dimensions, application areas, and quality certificates. They have been prepared to serve as a reference for you, our valued customers, during the design and product selection stages.

**CONNECTION DIMENSIONS TABLE**

Code	Capacity (L)	Top Connection	Bottom Connection	Connection Type
MIT-HT-5	5	1/2"	1/2"	Threaded
MIT-HT-10	10	3/4"	3/4"	Threaded
MIT-HT-15	15	3/4"	3/4"	Threaded
MIT-HT-20	20	1"	1"	Threaded
MIT-HT-30	30	1"	1"	Threaded
MIT-HT-40	40	1"	1"	Threaded

Note: The connection dimensions can be produced with flanges or in different diameters, tailored to the specific project.

**Material and Surface Properties Table**

Property	Açıklama
Body Material	Carbon steel
Inner Surface	Raw / Project-Specific Coating
Outer Surface	Electrostatic Powder Paint
Standard Color	Green (RAL Optional)
Welding Standard	EN ISO 9606

**Operating Conditions Table**

Parametre	Value
Max. Operating Pressure	10 bar
Test Pressure	1.5 x Operating Pressure
Max. Operating Temperature	120 °C
Fluid	Water / Water-Glycol Mixture



## Working Principle



### Radiator-Based Systems

High system water volume, traditional heating and radiator applications.

### Compact Systems

Fan coil, underfloor heating, and low water volume modern installations.

### Radiator-Based Systems

Air Tube Volume (L)  $\approx 0.06 \times \text{Boiler Capacity (kW)}$

Compact Systems (Fan Coil / Underfloor Heating)

Air Tube Volume (L)  $\approx 0.035 \times \text{Boiler Capacity (kW)}$

Round the calculated value up to the next standard capacity.

### Applications

- Closed-loop heating, glycol systems
- Radiator heating installations
- Boiler rooms
- Central heating systems
- Individual heating systems
- Industrial heating lines
- Heat centers and mechanical rooms

### Options

- Project-specific capacity and dimensions
- Flanged connection option
- Special RAL color
- High-pressure design

### Features

- Compact and robust body design
- High pressure resistance
- Long service life
- Easy installation
- Low maintenance requirement

### Compliance & Quality

- TSEK Certification
- CE Certification
- ISO 9001 Certification

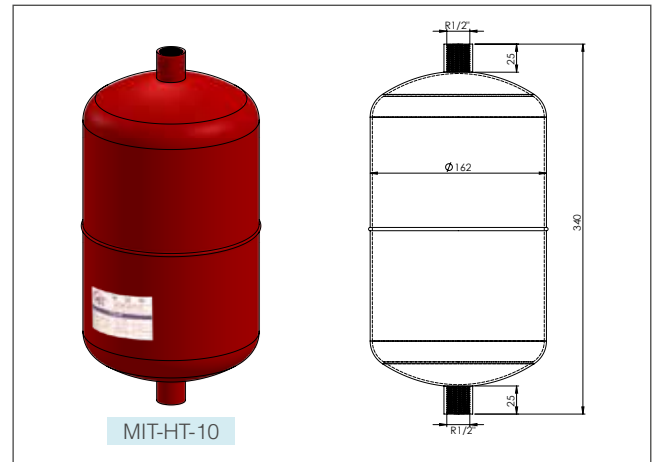
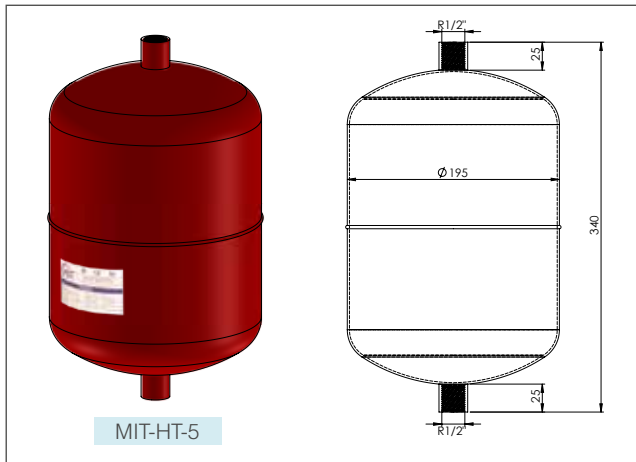


In heating systems (radiators), it allows the air in the pipes and radiators to be easily collected and discharged from the highest point. It ensures the air in the system is evacuated. It continuously releases air while the system is operating. An air vent valve or air purge valve can be mounted on the top.



The manufacturer reserves the right to change the product specifications, technical dimensions, and installation diagrams listed in this catalog without prior notice. No information provided may be copied or used without the manufacturer's permission. In no case can the manufacturer be held responsible based on technical information or diagrams as examples. If needed, we kindly request that you request project-specific technical drawings for precise measurements.

## Typical Technical Drawing



### TECHNICAL INFORMATION

Code	Capacity (L)	Body Diameter ØD (Body Diameter)	Height La (Overall Height)
MIT-HT-5	5	150	225
MIT-HT-10	10	200	260
MIT-HT-15	15	200	390
MIT-HT-20	20	300	240
MIT-HT-30	30	300	360
MIT-HT-40	40	300	480

### AIR TUBE SELECTION TABLE (BASED ON BOILER CAPACITY)

#### Radiator-Based Traditional Systems (Higher Water Volume)

Boiler Capacity (kW)	Recommended Air Tube
0 – 80	MIT-HT-5 (5 lt)
81 – 160	MIT-HT-10 (10 lt)
161 – 240	MIT-HT-15 (15 lt)
241 – 320	MIT-HT-20 (20 lt)
321 – 480	MIT-HT-30 (30 lt)
481 – 650	MIT-HT-40 (40 lt)
650+	Project-based Selection (Custom Capacity)

#### Fan Coil / Compact Installations / Underfloor Heating (Lower Water Volume)

Boiler Capacity (kW)	Recommended Air Tube
0 – 140	MIT-HT-5 (5 lt)
141 – 280	MIT-HT-10 (10 lt)
281 – 420	MIT-HT-15 (15 lt)
421 – 570	MIT-HT-20 (20 lt)
571 – 850	MIT-HT-30 (30 lt)
851 – 1150	MIT-HT-40 (40 lt)
1150+	Project-based Selection (Custom Capacity)

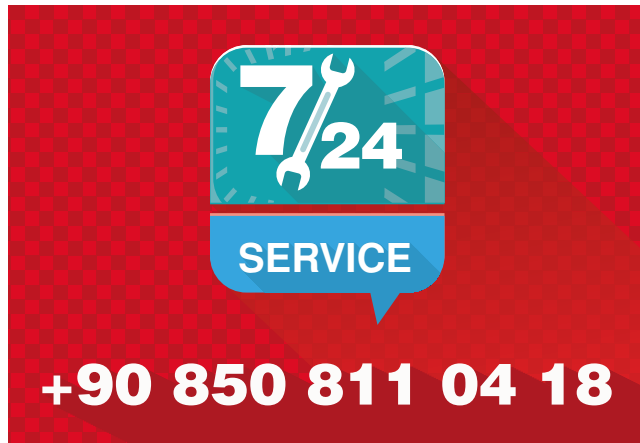
## Professional System Solution Center

You can get answers to the problems you experience with your pumps, heat exchangers and system from our MIT professional system solution center. You can also benefit from our 7/24 uninterrupted service with our solution center consisting of our expert engineers.

- 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.**



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.



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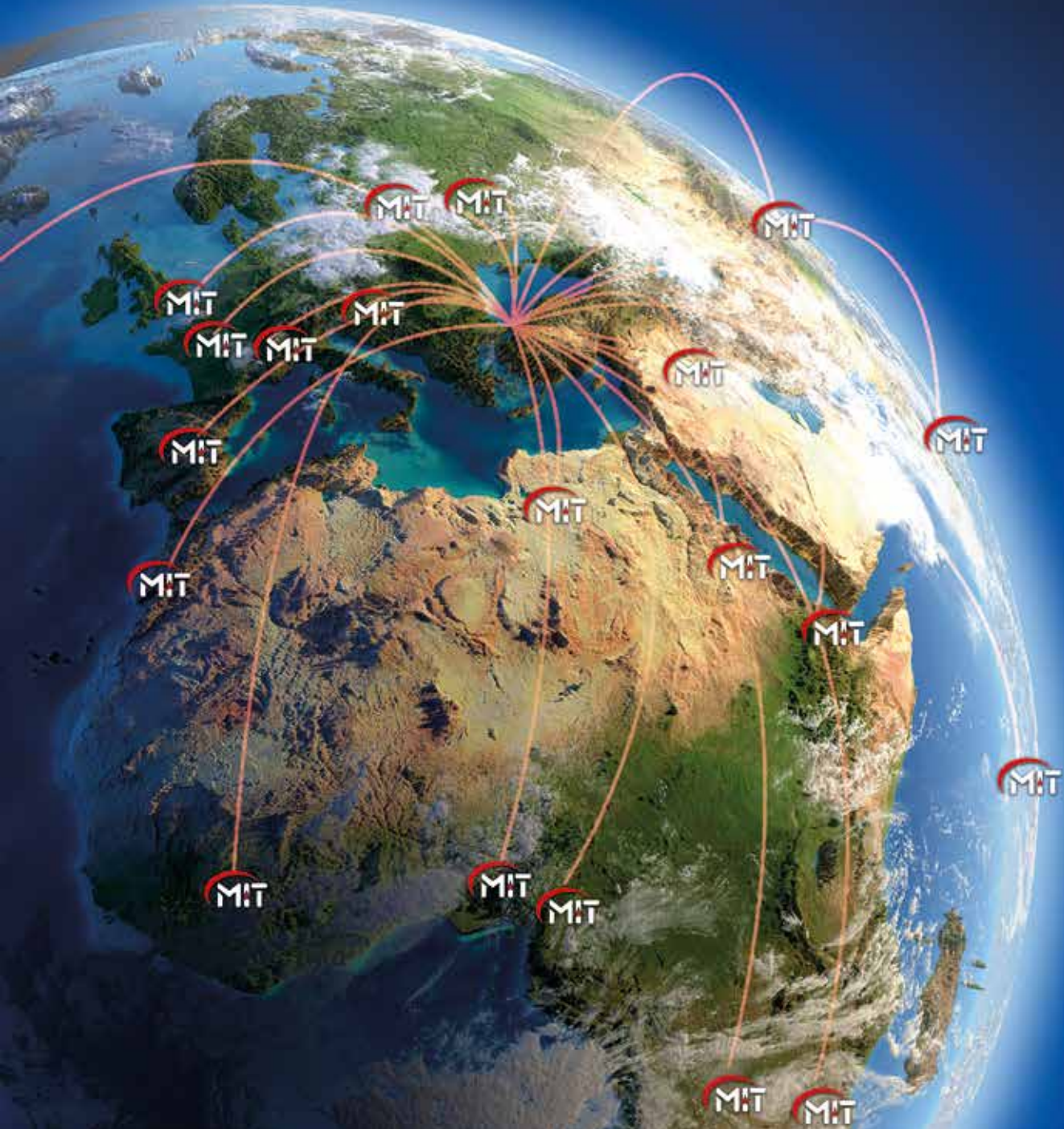
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