



EKİN ENDÜSTRİYEL

# **MIT BLOWERS PRODUCT CATALOGUE**



## EKIN PRODUCTS. LUMIPRA CONTACT.

Your authorized Ekin partner in the DACH region.

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## Sustainable Innovation, Quality Standardization and Dynamism

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

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

## Engineering Approaches, Integrated Solutions

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

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



# APPLICATION FIELDS



## HEAT TRANSFER PRODUCTS

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



## PRESSURE VESSELS

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



## COMPLETE SYSTEMS UNITS

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



## FOOD GRADE SYSTEMS

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



## FLUID TRANSFER PRODUCTS

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



## VALVES

- Thermoplastic Valves • Plastomatic Valves



## ENERGY SYSTEMS

- Solar Collectors • Water Heater Tanks for Solar

# Contents

1

Mit Blowers



## MIT BLOWERS

Blowers are installation equipment that provides the transfer of air in the emitted environment at high or low pressure and rotates the fan with the force received from the motor.

The fan in the blowers rotates by vacuuming the air in the suction section, the air trapped inside is then pushed towards the outlet side. Blowers are often used to move air.

MIT branded blowers offer the most reliable service for your application areas in terms of size, performance and technology.



## WHY SHOULD I USE MIT BLOWERS?



MIT centrifugal blowers have a maintenance-free, highly efficient fan, electric motor and various mounting (horizontal and vertical) shapes.

They provide high pressure and vacuum. Can produce oil-free air. Easy to install and maintenance-free AC motor.

## ADVANTAGES OF MIT CENTRIFUGAL BLOWERS

MIT branded blowers are designed to provide the best service to our valued customers with our expert engineer staff. We offer you the most efficient blower with the advantage of MIT brand below.

- It provides a maximum flow rate of 2500 m<sup>3</sup>/ h.
- Creates a maximum pressure of 570 mbar.
- High temperature operation (maximum: 70-80 °C).
- Provides a quiet working environment (50-85 dBA).
- Environment-friendly thanks to the lack of oil-free operation and no pollution level.
- Vibration is minimized with dynamic balance adjustment.
- Easy installation. Suitable for horizontal and vertical installation.
- Swedish SKF or Japanese NSK bearings are used, ensuring efficient and long-lasting use.
- Provides trouble-free operation for 3-5 years under normal conditions.

## THE TYPES OF BLOWERS

### Single Stage Blowers

Single-stage blowers are available in a range of 55-1050 m<sup>3</sup>/h flow rates, 0-460 mbar pressures and 0.25 to 5.5 kW range of motor power.

### Double Stage Blowers

Double-stage blowers are available in a range of 88-2050 m<sup>3</sup>/h flow rates, 0-570 mbar pressures and 0,7-25 kw.



## HOW TO SELECT A BLOWER?

The most important information needed for blower selection (for air) is listed as follows.

- Air flow rate required (m<sup>3</sup>/h, Nm<sup>3</sup>/h).
- The positive pressure of the blower to be used for air transfer (such as mbar, bar, mSS).
- Vacuum value of the blower to be used for vacuum (mbar, bar, etc.).
- Ambient temperature.





PERFORMANCE TABLE

Each blower has different operating values depending on the motor power.

| Model     |                     |             |             |        |                  |                    | Δp mBar          | 0    | 50   | 100  | 150  | 200  | 250 | 300 | 350 | 400 | 450 | 500 | 550 |
|-----------|---------------------|-------------|-------------|--------|------------------|--------------------|------------------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
|           | Electric Motor (kW) | Outlet Line | Weight (kg) | Stage  | Max. Vacuum mBar | Max. Pressure mBar | Flow Rate (m³/h) |      |      |      |      |      |     |     |     |     |     |     |     |
| B1TT-102  | 0,25                | 1"          | 7           | Single | -100             | 100                | 55               | 25   |      |      |      |      |     |     |     |     |     |     |     |
| B2TT-104  | 0,40                | 1 1/4"      | 11          | Single | -120             | 130                | 80               | 50   | 28   |      |      |      |     |     |     |     |     |     |     |
| B2CC-207  | 0,7                 | 1 1/4"      | 14          | Double | -210             | 240                | 88               | 68   | 54   | 41   | 30   |      |     |     |     |     |     |     |     |
| B3TT-105  | 0,55                | 1 1/4"      | 12          | Single | -120             | 130                | 100              | 77   | 50   |      |      |      |     |     |     |     |     |     |     |
| B3TT-107  | 0,7                 | 1 1/4"      | 13          | Single | -150             | 170                | 100              | 77   | 50   | 20   |      |      |     |     |     |     |     |     |     |
| B4TT-107  | 0,7                 | 1 1/2"      | 14          | Single | -120             | 120                | 145              | 111  | 80   |      |      |      |     |     |     |     |     |     |     |
| B4TT-108  | 0,85                | 1 1/2"      | 15          | Single | -160             | 160                | 145              | 111  | 80   | 55   |      |      |     |     |     |     |     |     |     |
| B4TT-113  | 1,3                 | 1 1/2"      | 16          | Single | -170             | 200                | 145              | 111  | 80   | 55   | 30   |      |     |     |     |     |     |     |     |
| B4CC-216  | 1,6                 | 1 1/2"      | 24          | Double | -280             | 280                | 150              | 135  | 120  | 105  | 93   | 78   |     |     |     |     |     |     |     |
| B4CC-222  | 2,2                 | 1 1/2"      | 27          | Double | -330             | 440                | 150              | 135  | 120  | 105  | 93   | 78   | 64  | 50  | 35  |     |     |     |     |
| B5TT-116  | 1,6                 | 2"          | 21          | Single | -200             | 190                | 210              | 178  | 145  | 110  |      |      |     |     |     |     |     |     |     |
| B5TT-122  | 2,2                 | 2"          | 25          | Single | -220             | 270                | 210              | 178  | 145  | 110  | 87   | 58   |     |     |     |     |     |     |     |
| B5CC-230  | 3,0                 | 2"          | 39          | Double | -340             | 410                | 230              | 205  | 182  | 167  | 148  | 130  | 115 | 100 | 88  |     |     |     |     |
| B5CC-240  | 4,0                 | 2"          | 43          | Double | -390             | 490                | 230              | 205  | 182  | 167  | 148  | 130  | 115 | 100 | 88  | 60  |     |     |     |
| B6TT-122  | 2,2                 | 2"          | 27          | Single | -230             | 250                | 270              | 240  | 200  | 160  | 118  |      |     |     |     |     |     |     |     |
| B6TT-130  | 3,0                 | 2"          | 32          | Single | -270             | 310                | 270              | 240  | 200  | 160  | 118  | 78   |     |     |     |     |     |     |     |
| B7TT-122  | 2,2                 | 2"          | 29          | Single | -210             | 200                | 318              | 278  | 238  | 200  |      |      |     |     |     |     |     |     |     |
| B7TT-130  | 3,0                 | 2"          | 34          | Single | -270             | 290                | 318              | 278  | 238  | 200  | 170  | 140  |     |     |     |     |     |     |     |
| B7TT-140  | 4,0                 | 2"          | 42          | Single | -290             | 330                | 318              | 278  | 238  | 200  | 170  | 140  | 110 | 75  |     |     |     |     |     |
| B7TC-130  | 3,0                 | 2"          | 43          | Single | -220             | 220                | 420              | 355  | 295  | 244  | 200  |      |     |     |     |     |     |     |     |
| B7TC-140  | 4,0                 | 2"          | 43          | Single | -260             | 310                | 420              | 355  | 295  | 244  | 200  | 160  | 120 |     |     |     |     |     |     |
| B7CC-222  | 2,2                 | 2"          | 42          | Double | -220             | 210                | 320              | 300  | 282  | 264  | 250  |      |     |     |     |     |     |     |     |
| B7CC-230  | 3,0                 | 2"          | 47          | Double | -280             | 260                | 320              | 300  | 282  | 264  | 250  | 235  |     |     |     |     |     |     |     |
| B7CC-243  | 4,3                 | 2"          | 53          | Double | -360             | 380                | 320              | 300  | 282  | 264  | 250  | 235  | 218 | 202 |     |     |     |     |     |
| B7CC-255  | 5,5                 | 2"          | 70          | Double | -440             | 500                | 320              | 300  | 282  | 264  | 250  | 235  | 218 | 202 | 184 | 174 | 158 |     |     |
| B7CC-275  | 7,5                 | 2"          | 77          | Double | -440             | 570                | 320              | 300  | 282  | 264  | 250  | 235  | 218 | 202 | 184 | 174 | 158 | 140 |     |
| B8TT-155  | 5,5                 | 2 1/2"      | 65          | Single | -300             | 320                | 530              | 465  | 420  | 380  | 348  | 305  | 275 |     |     |     |     |     |     |
| B8TT-175  | 7,5                 | 2 1/2"      | 68          | Single | -320             | 380                | 530              | 465  | 420  | 380  | 348  | 305  | 275 | 240 | 180 |     |     |     |     |
| B8TC-175  | 7,5                 | 2 1/2"      | 74          | Single | -270             | 260                | 700              | 615  | 550  | 490  | 448  | 390  |     |     |     |     |     |     |     |
| B8CC-275  | 7,5                 | 2 1/2"      | 87          | Double | -400             | 400                | 520              | 480  | 455  | 440  | 410  | 390  | 370 | 350 | 330 |     |     |     |     |
| B8CC-2110 | 11                  | 2 1/2"      | 127         | Double | -280             | 370                | 900              | 800  | 720  | 650  | 580  | 515  | 440 | 350 |     |     |     |     |     |
| B9TT-1250 | 12,5                | 4"          | 132         | Single | -280             | 270                | 1050             | 980  | 900  | 830  | 770  | 695  | 695 |     |     |     |     |     |     |
| B9TT-1850 | 18,5                | 4"          | 140         | Single | -340             | 460                | 1050             | 980  | 900  | 830  | 770  | 695  | 630 | 520 | 480 |     |     |     |     |
| B9CC-2225 | 25,0                | 4"          | 235         | Double | -310             | 280                | 2050             | 1850 | 1800 | 1750 | 1500 | 1420 |     |     |     |     |     |     |     |

## WORKING PRINCIPLE OF MIT CENTRIFUGAL BLOWER



Blowers increase the pressure of the absorbed gas by a series of vortex motions formed by the centrifugal movement of the impeller. When the impeller is rotating, the channels in the impeller push the air forward by the centrifugal movement and a helical movement occurs. During this movement, the gas is continuously compressed along the channel and the pressure increases linearly. The pressurized air is transferred from the outlet duct of the blower to the installation to be used.

## WHAT ARE THE BLOWER USAGE AREAS?

Blowers are used in various processes such as food, transportation, granite carrier.

Blowers, other than vacuum pumps are effectively used in food washing, transport equipment, powder granur conveyor, suction equipment, industrial dust extraction, paper handling, degassing, bottle filling machines, automatic filling machines, paper cutting industry, printing paper handling process, dust removal equipment production, car washing, treatment plants, whirlpool, bottle drying, vegetable fruit washing and heating installations.





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

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

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

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

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

### In-Company Trainings

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



### Out-of-Company Trainings

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



## SALES TEAM

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

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



### **Customer Satisfaction**

Customer rights are protected in all circumstances.



### **Privacy Policy**

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



### **Information Security**

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



### **Ethical Values**

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

CERTIFICATES





## PROFESSIONAL SYSTEM SOLUTION CENTER

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

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



It is vital for your system to be designed and implemented correctly in the first installation in order to be able to operate at the desired capacity, smoothness and long life. For this reason, you can get first-hand the technical support you need during the installation phase of your system and the problems that may arise in the business; You can reach us  
Contact: +49 211 93079616



LUMIPRA CONTACT

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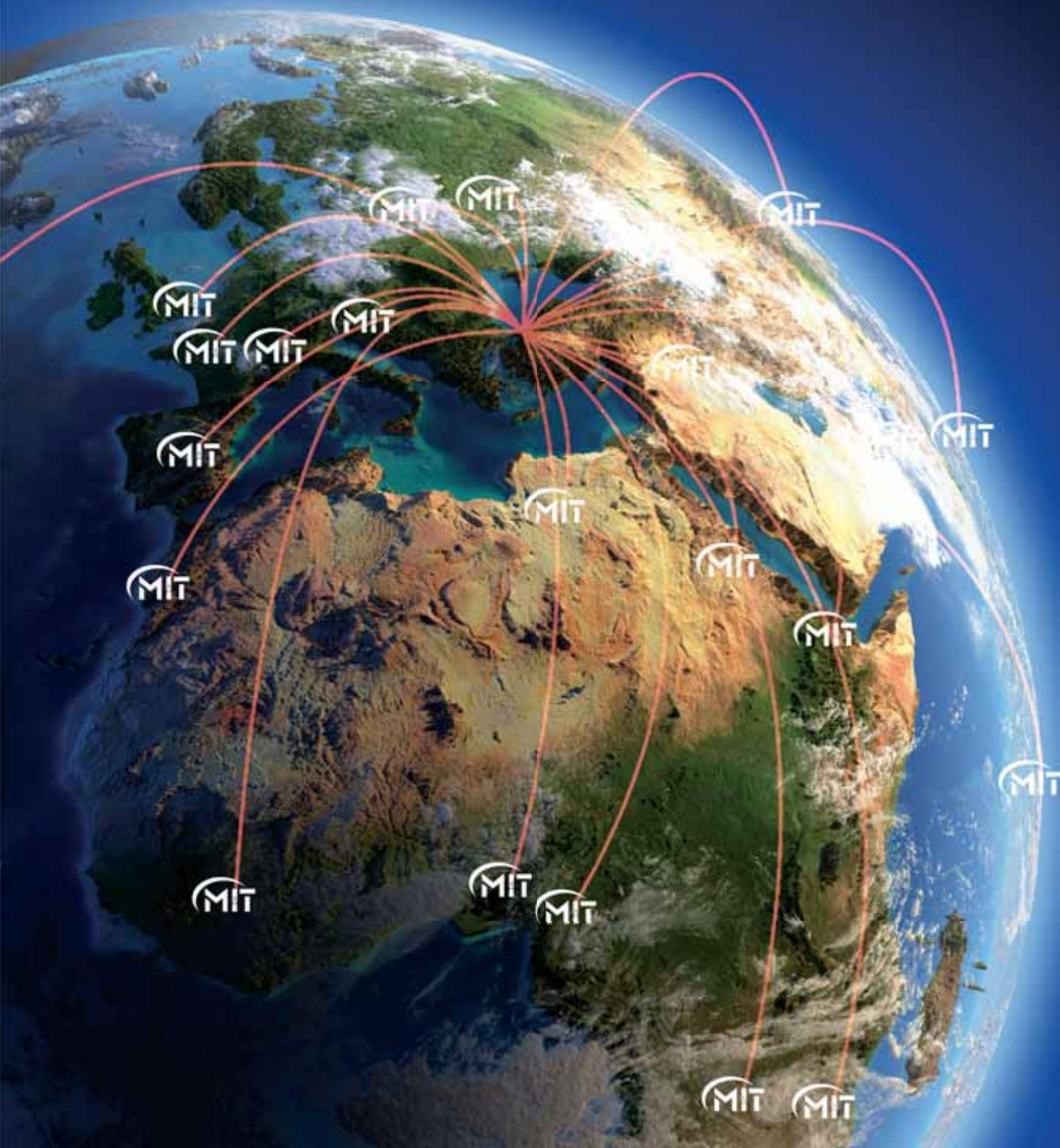
[info@lumipra.com](mailto:info@lumipra.com)

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.



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



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