



EXPANSION TANKS PRODUCT CATALOGUE



EKIN PRODUCTS. LUMIPRA CONTACT.

Your authorized Ekin partner in the DACH region.

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Products, technical advice, procurement and spare parts.



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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

Expansion Tanks



MIT FOOTLESS AND HORIZONTAL EXPANSION TANK SERIES

Technical Features of 10 Bar Footless Closed Expansion Tank

Model	Volume	Front Gas Pressure	Connection	Dimensions	
				Diameter	Height
MIT 10 K	8 lt	2	1"	220	320
MIT 10 K	12 lt	2	1"	220	380
MIT 10 K	19 lt	2	1"	280	430
MIT 10 K	24 lt	2	1"	280	470
MIT 10 K Ball Shaped	24 lt	2	1"	360	325
MIT 10 K	35 lt	2	1"	380	470
MIT 10 K	50 lt	4	1"	380	560



Technical Features of 10 Bar Footless Closed Expansion Tank

Model	Volume	Pre-Charge Pressure	Connection	Dimensions	
				Diameter	Height
MIT 10 Y	24 lt	2	1"	280	470
MIT 10 Y	50 lt	4	1"	380	620
MIT 10 Y	60 lt	4	1"	380	670
MIT 10 Y	80 lt	4	1"	430	720
MIT 10 Y	100 lt	4	1"	460	800



MIT VERTICAL EXPANSION TANK SERIES

Technical Features of 10 Bar Footless Closed Expansion Tank



Model	Volume	Pre-Charge Pressure	Connection	Dimensions	
				Diameter	Height
MIT 10	50 lt	4	1"	380	750
MIT 10	60 lt	4	1"	380	810
MIT 10	80 lt	4	1"	430	960
MIT 10	100 lt	4	1"	460	990
MIT 10	150 lt	4	1"	500	1100
MIT 10	200 lt	4	1 1/4"	590	1120
MIT 10	300 lt	4	1 1/4"	640	1230
MIT 10	500 lt	4	1 1/4"	750	1550
MIT 10	750 lt	4	2"	750	1950
MIT 10	750 lt	4	2"	800	1850
MIT 10	900 lt	4	2"	800	1950
MIT 10	1000 lt	4	2"	800	2180
MIT 10	1500 lt	4	2"	960	2380
MIT 10	2000 lt	4	2"	1100	2520
MIT 10	3000 lt	4	2 1/2"	1200	2800
MIT 10	4000 lt	4	3"	1450	3100
MIT 10	5000 lt	4	3"	1450	3720
MIT 10	10000 lt	4	DN100	1600	5750

Technical Features of 16 Bar Vertical Closed Expansion Tank



Model	Volume	Pre-charge Pressure	Connection	Dimensions	
				Diameter	Height
MIT 16	50 lt	4	1"	380	750
MIT 16	60 lt	4	1"	380	810
MIT 16	80 lt	4	1"	430	960
MIT 16	100 lt	4	1"	460	990
MIT 16	150 lt	4	1"	500	1100
MIT 16	200 lt	4	1 1/4"	590	1120
MIT 16	300 lt	4	1 1/4"	640	1230
MIT 16	500 lt	4	1 1/4"	750	1550
MIT 16	750 lt	4	2"	800	1850
MIT 16	900 lt	4	2"	800	1950
MIT 16	1000 lt	4	2"	800	2180
MIT 16	1500 lt	4	2"	960	2380
MIT 16	2000 lt	4	2"	1100	2520
MIT 16	3000 lt	4	2 1/2"	1200	2800
MIT 16	4000 lt	4	3"	1450	3100
MIT 16	5000 lt	4	3"	1450	3720
MIT 16	10000 lt	4	DN100	1600	5750

Technical Features of 25 Bar Vertical Closed Expansion Tank



Model	Volume	Pre-charge Pressure	Connection	Dimensions	
				Diameter	Height
MIT 25	50 lt	4	1"	380	750
MIT 25	60 lt	4	1"	380	810
MIT 25	80 lt	4	1"	450	910
MIT 25	100 lt	4	1"	450	990
MIT 25	150 lt	4	1"	500	1100
MIT 25	200 lt	4	1 1/4"	600	1120
MIT 25	300 lt	4	1 1/4"	640	1230
MIT 25	500 lt	4	1 1/4"	750	1550
MIT 25	750 lt	4	2"	800	1850
MIT 25	900 lt	4	2"	800	1950
MIT 25	1000 lt	4	2"	800	2180
MIT 25	1500 lt	4	2"	960	2380
MIT 25	2000 lt	4	2"	1100	2520
MIT 25	3000 lt	4	2 1/2"	1200	2800
MIT 25	4000 lt	4	3"	1450	3100
MIT 25	5000 lt	4	3"	1450	3720
MIT 25	10000 lt	4	DN100	1600	5750

MIT MEMBRANE SERIES

Technical Details of Membranes

- The membranes, which are used in our tanks, are manufactured from EPDM and BUTYL rubber materials.
- EPDM membranes are used in our expansion tanks which is from 8 Lt to 4000 Lt.
- BUTYL Membrane is used in our 5000 Lt and over capacity expansion tanks.
- EPDM Membrane is resistant to +10 / +110 °C.
- BUTYL Membrane is sliding up to +10 / +130 °C.
- The membranes used in our expansion tanks can be used in all drinking water.



Dimension and Capacity	Rubber Material	Flange (mm)	Height (mm)
MIT 8-12 lt	EPDM	80-110	195
MIT 18-24 lt	EPDM	80-110	248
MIT 35-60 lt	EPDM	80-110	315
MIT 80-100 lt	EPDM	80-110	700
MIT 150 lt	EPDM	80-110	750
MIT 200 lt	EPDM	150-210	800
MIT 300 lt	EPDM	150-210	1000
MIT 500 lt	EPDM	150-210	1400
MIT 750 lt	EPDM	150-210	1600
MIT 1000 lt	EPDM	200-250	2000
MIT 1500 lt	EPDM	200-250	2000
MIT 2000 lt	EPDM	200-250	2000
MIT 8-12 lt	BUTYL	80-110	195
MIT 18-24 lt	BUTYL	80-110	248
MIT 35-60 lt	BUTYL	80-110	315
MIT 80-100 lt	BUTYL	80-110	700
MIT 150 lt	BUTYL	80-110	750
MIT 200 lt	BUTYL	150-210	800
MIT 300 lt	BUTYL	150-210	1000
MIT 500 lt	BUTYL	150-210	1400
MIT 750 lt	BUTYL	150-210	1600
MIT 1000 lt	BUTYL	200-250	2000
MIT 1500 lt	BUTYL	200-250	2000
MIT 2000 lt	BUTYL	200-250	2000
MIT 3000 lt	BUTYL	150-210	2515
MIT 4000 lt	BUTYL	250-300	2680
MIT 5000 lt	BUTYL	150-210, 250-300	3440
MIT 10000 lt	BUTYL	150-210, 250-300	5655



 EKİN ENDÜSTRİYEL



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



TÜRK STANDARDLARI ENSTİTÜSÜ

TÜRK STANDARDLARINA UYGUNLUK BELGESİ

TURKISH STANDARDS INSTITUTION

CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS

BELGE NUMARASI

REFERENCE NUMBER OF LICENCE

BELGENİN İLK VERİLİŞ TARİHİ

DATE OF FIRST ISSUE OF LICENCE

BELGENİN SON GEÇERLİLİK TARİHİ

LICENCE VALID UNTIL

BELGE SAHİBİ KURULUŞUNUN ADI

NAME OF THE LICENCE HOLDER

BELGE SAHİBİ KURULUŞUNUN ADRESİ

ADDRESS OF THE LICENCE HOLDER

ÜRETİM YERİ ADI

NAME OF THE MANUFACTURING PLACE

ÜRETİM YERİ ADRESİ

ADDRESS OF THE MANUFACTURING PLACE

İPTAL EDİLEN BELGE NUMARASI (Varsa)

INDICATION OF SUPERSEDED LICENCE (if any)

TESCİLİ TİCARİ MARKASI

REGISTERED TRADE MARK

İLGİLİ TÜRK STANDARDI

RELATED TURKISH STANDARD

BELGE KAPSAMI

SCOPE OF LICENCE

011181-TSE-02/01

07.06.2018

07.06.2019

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

DUOULLU OSB MAH. DES SANAYİ ŞİT. B.14 BLOK 107. SOK.

NO:2-4-6-8 ÜMRANİYE İSTANBUL/TÜRKİYE

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

DUOULLU OSB MAH. DES SANAYİ ŞİT. B.14 BLOK 107. SOK.

NO:2-4-6-8 ÜMRANİYE İSTANBUL/TÜRKİYE

MİT

TS EN 13831 - 3 Su tesisatları için diyaframli kapalı genleşme tankları /

09.11.2010

MIT TİCARİ MODELİ, EN YÜKSEK ÇALIŞMA BASINCI 10 BAR OLAN, SU TESİSATLARI İÇİN DİYAFRAMLİ KAPALI GENLEŞME TANKI

08.06.2018

Belgelendirme Merkezi Başkanı Adına
OMER FARUK DUMAN

SAKARYA BELGELENDİRME MÜDÜRÜ

"Bu belge, belgelendirilen ürünün, üretim yerinin Enstitümüzün belirlendiği şartları karşıladığını da gösterir.

"Bu belge hiç bir şekilde kefil edilemez. Keşmen veya iduamamla istisnalanak belgelendirilen, keşim ve istisnalanak.

"Bu belge, belgelendirme merkezi başkanlığı Adres: 1. Organize Sanayi Bölgesi Doğu Kapısı Şişli Zekariya Özü Yunnan Cad. Hariri / ADAPAZARI * Tel: 2642912975

Faks: 2642912975

"TSE BELGELENDİRME MERKEZİ BAŞKANLIĞI: Adres: Necatibay Cad. No:112 06100 Bakırköy/İSTANBUL - Tel: 0 312 416 64 81 / 416 64 27, Faks: 0 312 416 66 17

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<http://evrakkontrol.tse.org.tr/BelgeDogrulama.aspx?m=2d869d9> adresinden belgenin doğruluğunu ve geçerliliğini sorgulayınız.

1 / 1

WELDING PROCEDURE QUALIFICATION RECORD (PQR) [Section IX, ASME Boiler and Pressure Vessel Code]																																																		
CERTIFICATE 09-702-01-C-30-2017112402991																																																		
Procedure Qualification Record No.: wPQR-EX-BW-03																																																		
Company Name: Ekin Endüstriyel İnterim Solusyon San. Tic. Ltd. Şti.			Address: 065 Saraylı Sırtı 307.Şb. B14 Blok No:2-4-6-8 Ümraniye/İST																																															
Welding Process(es): GTAW			Type(s): Manual																																															
JOINTS (EN-402) Groove Joints of Test Coupon																																																		
BASE METALS (QW-402) Material Spec: ASTM 316 (P20)MM27-12-2 Type, or Grade, or UNS Number: N/A P. No./Gr.No.: N/A Thickness of Test Coupon: S Diameter of Test Coupon: No pass over 13mm Max. Pass Thickness (≤ 13 mm): Other:			POSTWELD HEAT TREATMENT (QW-407) Temperature: - Time: - Other: -																																															
FILLER METALS (QW-404) SFA Specification: AS.9 AWS Classification: ER 308 L Trade Name: SG 308 L Filler Metal P.No.: 6 Weld Metal Analysis A-No.: Size of Filler Metal: 2 Filler Metal Product Form: Solid Rod Supplemental Filler Metal: N/A Weld Metal Thickness: 5 Flux Type: N/A Flux Trade Name: N/A Other (QW-404.14): N/A			ELECTRICAL CHARACTERISTICS (QW-403) Current: DC Polarity: EN Amperage: 95-110 Volts: 10-12 Tungsten Electrode Size: 2 Heat Input: 0.61-1.71 kJ/mm Mode of Metal Transfer for GTAW (FCAW): N/A Other:																																															
POSITION (QW-405) Position of Groove: 1G Weld Progression (Up/Pl, Down/H): Other:			TECHNIQUE (QW-430) Travel Speed(mm/min): See below table String or Weave Bead: String Bead Oscillation: N/A Single or Multiple Pass (per side): Multi Pass Single or Multiple Electrode: Single Interpass Cleaning: Grinding and Brushing Method of Back Gouging: Grinding Other (QW-410.11 / QW-430.03):																																															
PREHEAT (QW-406) Preheat Temperature(Min.): Min. 10° Interpass Temperature(Max.): Max. 200° Other:			Actual Values <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Weld Layers</th> <th>Process</th> <th>Filler Metal Class</th> <th>Size (mm)</th> <th>Type / Polarity</th> <th>Current Amperage Range (A)</th> <th>Welding (H)</th> <th>Travel Speed (mm/sec.)</th> <th>Heat Input (kJ / cm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>GTAW</td> <td>ER 308 L</td> <td>2</td> <td>DC EN</td> <td>100-110</td> <td>10-12</td> <td>1,87</td> <td>0,61-0,71</td> </tr> <tr> <td>2</td> <td>GTAW</td> <td>ER 308 L</td> <td>2</td> <td>DC EN</td> <td>100-110</td> <td>10-12</td> <td>1,86</td> <td>0,55-0,65</td> </tr> <tr> <td>3</td> <td>GTAW</td> <td>ER 308 L</td> <td>2</td> <td>DC EN</td> <td>100-110</td> <td>10-12</td> <td>1,77</td> <td>1,5-1,71</td> </tr> <tr> <td>4</td> <td>GTAW</td> <td>ER 308 L</td> <td>2</td> <td>DC EN</td> <td>95-100</td> <td>10-11</td> <td>0,8</td> <td>1,15-1,37</td> </tr> </tbody> </table>			Weld Layers	Process	Filler Metal Class	Size (mm)	Type / Polarity	Current Amperage Range (A)	Welding (H)	Travel Speed (mm/sec.)	Heat Input (kJ / cm)	1	GTAW	ER 308 L	2	DC EN	100-110	10-12	1,87	0,61-0,71	2	GTAW	ER 308 L	2	DC EN	100-110	10-12	1,86	0,55-0,65	3	GTAW	ER 308 L	2	DC EN	100-110	10-12	1,77	1,5-1,71	4	GTAW	ER 308 L	2	DC EN	95-100	10-11	0,8	1,15-1,37
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TUV Telsik Kontrol ve Belgelendirme A.Ş.

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www.tuv-telsik.com.tr



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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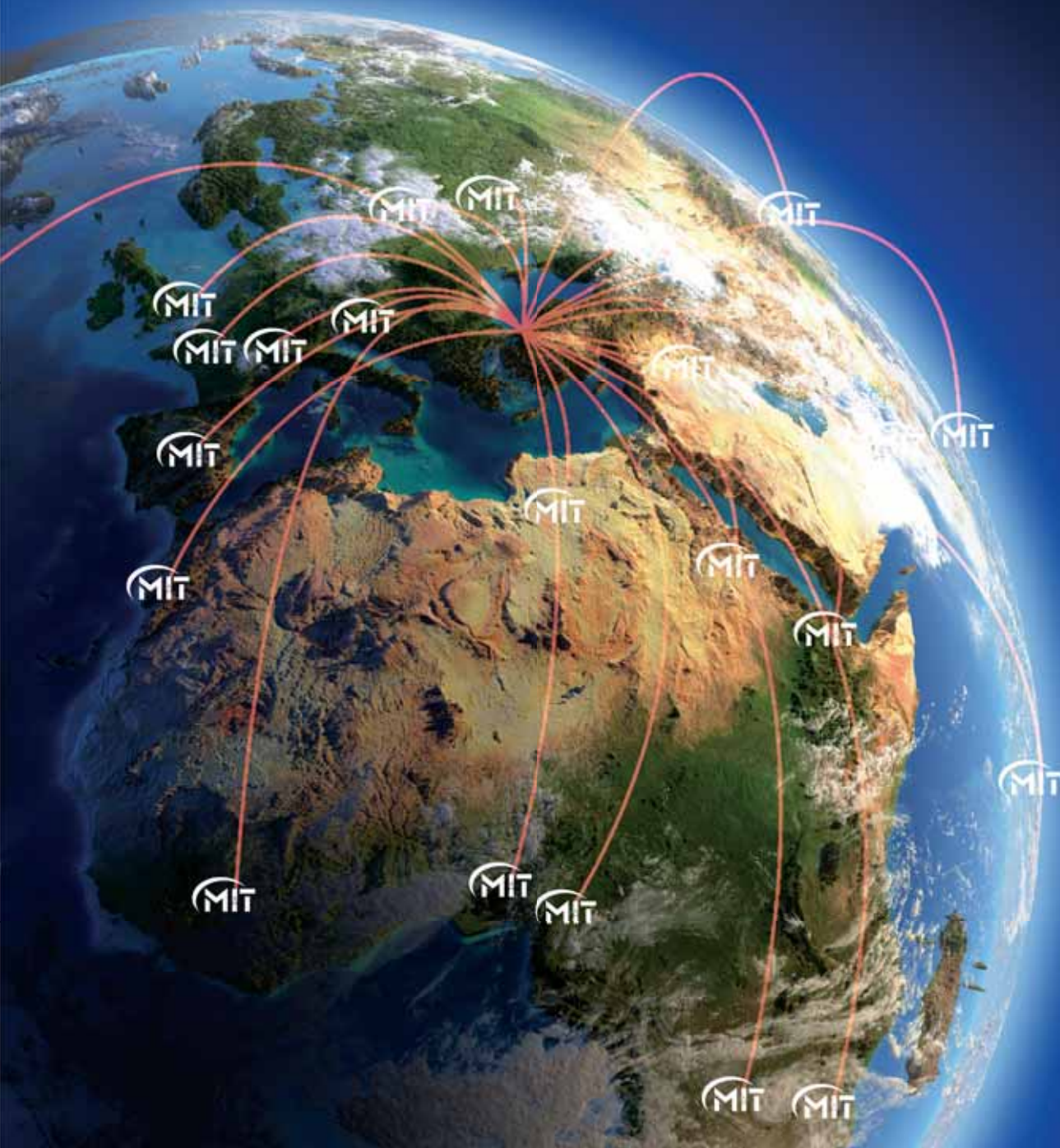
info@lumipra.com

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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