



EKİN ENDÜSTRİYEL

SEPERATORS 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

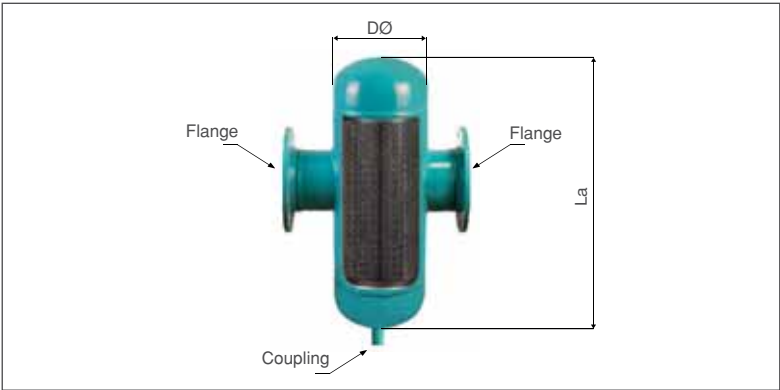
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Seperators



SEPERATORS

Dirt Seperators



TECHNICAL INFORMATION			
Code	Connection Diameter	Body Diameter	Height
MIT-TT	DN	ØD	La
MIT-TT-25	25	100	300
MIT-TT-32	32	125	310
MIT-TT-40	40	125	310
MIT-TT-50	50	150	320
MIT-TT-65	65	150	420
MIT-TT-80	80	200	490
MIT-TT-100	100	200	490
MIT-TT-125	125	250	630
MIT-TT-150	150	300	680
MIT-TT-200	200	400	700
MIT-TT-250	250	500	1030
MIT-TT-300	300	600	1320

It prevents the unknown matter in the water (mud and dirt etc.) from entering the water from entering into the drainage.

Features

- 1"-12" wiring connection (DN25-DN300).
- Maximum operation of 10 and 16 atm.
- The test pressure is 1.5 times the operating pressure.
- Maximum operating temperature of 120 °C
- PN16 pressure class.
- Electrostatic powder coating.

Advantages

- The impurities are filtered from the filter and accumulate in the lower part of the device.
- Thus, the system will never be clogged.

- The accumulated sediment is easily discharged through the drain valve under the device.

Connection Types

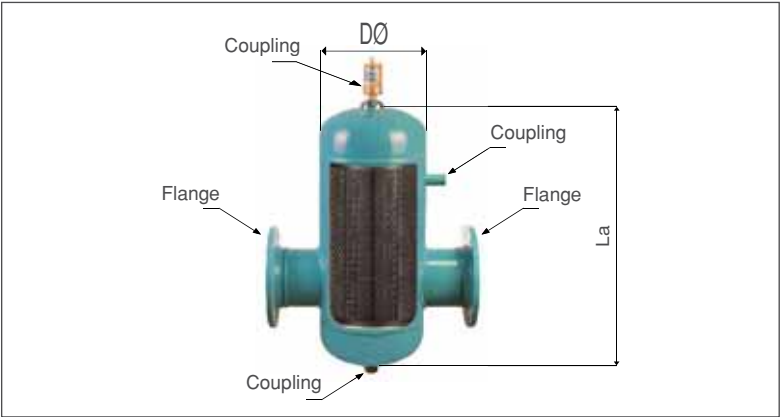
- Flanged Connection
- Tube Welded Connection
- Threaded Connection

Certificates

- TSEK Certificate
- CE Certificate
- ISO 9001 Certificate

! Measurements are approximate and may vary. Production is done according to project and application dimensions.

Air Separators



TECHNICAL INFORMATION			
Code	Connection Diameter	Body Diameter	Height
MIT-HA	DN	ØD	La
MIT-HA-25	25	100	300
MIT-HA-32	32	125	310
MIT-HA-40	40	125	310
MIT-HA-50	50	150	320
MIT-HA-65	65	150	420
MIT-HA-80	80	200	490
MIT-HA-100	100	200	490
MIT-HA-125	125	250	630
MIT-HA-150	150	300	680
MIT-HA-200	200	400	700
MIT-HA-250	250	500	1030
MIT-HA-300	300	600	1320

The air and water, which are dissolved in the water, start to circulate with the water in the system by increasing the temperature. This air can cause corrosion in materials such as pipes, fittings, boilers and combi boilers. Sound causes circulatory disorders and cavitation in pumps. Due to the air of the radiators, it can cause non-heating problems. Therefore, these problems are prevented by using air separators in the system.

Features

- 1"-12" wiring connection (DN25-DN300).
- 10 and 16 atm recommended operation.
- The test pressure is 1.5 times the operating pressure.
- Maximum use temperature of 120 °C.
- PN16 pressure class.
- Electrostatic powder coating.

Advantages

- Discharges the air in the system.
- The air is continuously evacuated when the system is running without the need to stop the pump

- during venting.
- The top drain valve is provided for draining air during filling.

Connection Types

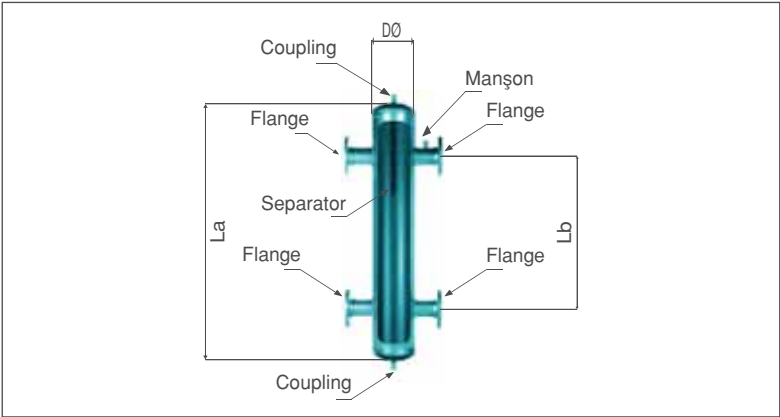
- Flanged Connection
- Tube Welded Connection
- Threaded Connection

Certificates

- TSEK Certificate
- CE Certificate
- ISO 9001 Certificate

 Measurements are approximate and may vary. Production is done according to project and application dimensions.

Balance Tank



TECHNICAL INFORMATION						
Code	Connection Diameter	Body Diameter	Height	Interconnection Height	Flow	Capacity
MIT-DK	DN	ØD	La	Lb	m³/h	kW
MIT-DK-25	25	65	450	280	1	20
MIT-DK-32	32	65	450	270	1,7	29
MIT-DK-40	40	80	480	320	2,5	43
MIT-DK-50	50	100	600	350	4	70
MIT-DK-65	65	150	720	400	8	140
MIT-DK-80	80	200	940	500	12	210
MIT-DK-100	100	200	940	500	20	350
MIT-DK-125	125	250	1160	600	32	550
MIT-DK-150	150	300	1380	700	52	900
MIT-DK-200	200	400	1840	1000	100	1750
MIT-DK-250	250	500	2130	1250	185	3250
MIT-DK-300	300	600	2420	1660	300	5250

In the boiler circuit (primary circuit) and in the heating circuits (secondary circuit) the hydraulic balance vessel separates the boiler circuit and the heating circuits from each other if there are different heating water flows.

Features

- 1"-12" wiring connection (DN25-DN300).
- 10 and 16 atm recommended operation.
- The test pressure is 1.5 times the operating pressure.
- Maximum operating temperature of 120 °C.
- PN16 pressure class.
- Electrostatic powder coating.

Advantages

- There is no hydraulic effect between the boiler circuit and the heating circuit.
- Boilers and heating zones operate under suitable water flow.
- It can be used in single or multiboiler systems

- regardless of heating circuit control systems.
- The adjustment elements on both sides of the equilibrium container work optimally. (Three-way valve, etc.) Boiler circuit and adjustment elements are dimensioned without any problem.

Connection Types

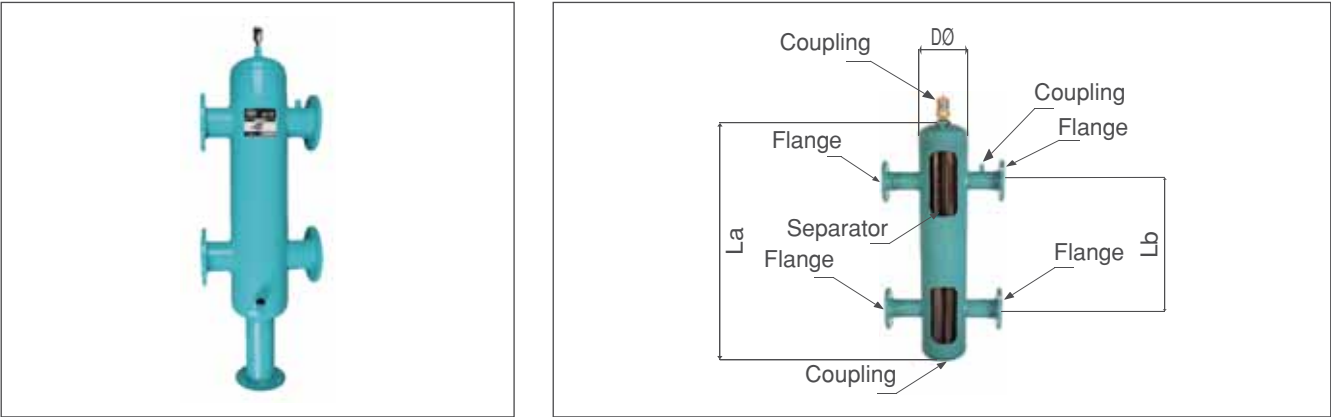
- Flanged Connection
- Tube Welded Connection
- Threaded Connection

Certificates

- TSEK Certificate
- CE Certificate
- ISO 9001 Certificate

! Measurements are approximate and may vary. Production is done according to project and application dimensions.

Combined Balance Tank



TECHNICAL INFORMATION						
Code	Connection Diameter	Body Diameter	Height	Interconnection Height	Flow	Capacity
MIT-PDK	DN	ØD	La	Lb	m³/h	kW
MIT-PDK-25	25	65	450	280	1	20
MIT-PDK-32	32	65	450	270	1,7	29
MIT-PDK-40	40	80	480	320	2,5	43
MIT-PDK-50	50	100	600	350	4	70
MIT-PDK-65	65	150	720	400	8	140
MIT-PDK-80	80	200	940	500	12	210
MIT-PDK-100	100	200	940	500	20	350
MIT-PDK-125	125	250	1160	600	32	550
MIT-PDK-150	150	300	1380	700	52	900
MIT-PDK-200	200	400	1840	1000	100	1750
MIT-PDK-250	250	500	2130	1250	185	3250
MIT-PDK-300	300	600	2420	1660	300	5250

The combined balance tank performs the function of the air separator, the sediment retainer-strainer and the equilibrium tank. Thanks to this feature, it provides significant cost savings.

Features

- 1"-12" wiring connection (DN25-DN300).
- 10 and 16 atm recommended operation.
- The test pressure is 1.5 times the operating pressure.
- Maximum use temperature of 120 °C.
- PN16 pressure class.
- Electrostatic powder coating.

Advantages

- In closed circuit heating systems, the heater extends the life of the boiler systems by making thermal and hydraulic balancing between the welding and the installation.
- Provides pressure, temperature and flow balance of different heat boilers.

- The air separation process can be done very quickly thanks to the automatic air purge air purifier. Thanks to the drain cock at the bottom of the equilibrium vessel, the deposits and debris accumulated in the container can be easily emptied.

Connection Types

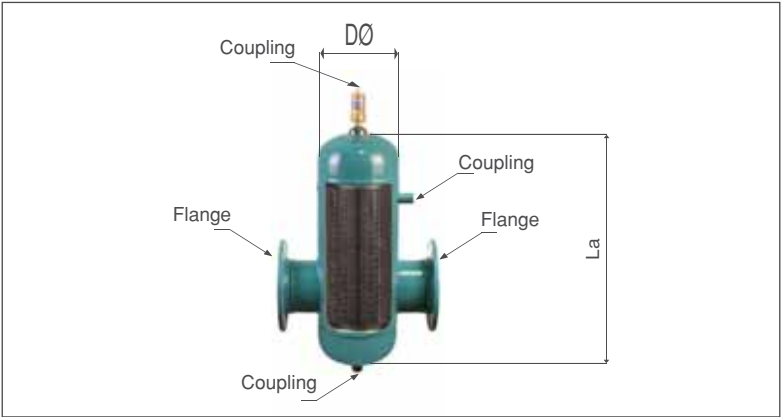
- Flanged Connection
- Tube Welded Connection
- Threaded Connection

Certificates

- TSEK Certificate
- CE Certificate
- ISO 9001 Certificate

 Measurements are approximate and may vary. Production is done according to project and application dimensions.

Combined Dirt and Air Separators



TECHNICAL INFORMATION			
Code	Connection Diameter	Body Diameter	Height
MIT-PTHA	DN	ØD	La
MIT-PTHA-25	25	100	300
MIT-PTHA-32	32	125	310
MIT-PTHA-40	40	125	310
MIT-PTHA-50	50	150	320
MIT-PTHA-65	65	150	420
MIT-PTHA-80	80	200	490
MIT-PTHA-100	100	200	490
MIT-PTHA-125	125	250	610
MIT-PTHA-150	150	300	675
MIT-PTHA-200	200	400	750
MIT-PTHA-250	250	500	1030
MIT-PTHA-300	300	600	1320

It prevents the unknown matter in the water (sludge, sediment and dirt caused by the water) to enter into the drainage and into the drain.

Features

- 1"-12" wiring connection (DN25-DN300).
- 10 and 16 atm recommended operation.
- The test pressure is 1.5 times the operating pressure.
- Maximum use temperature of 120 °C.
- PN16 pressure class.
- Electrostatic powder coating.

Advantages

- The impurities are filtered from the filter and accumulate in the lower part of the device.
- Thus, the system will never be clogged.
- The accumulated sediment is easily discharged

- through the drain valve under the device.
- The air separation process can be done very quickly thanks to the automatic air purge air purifier. Thanks to the drain cock at the bottom of the equilibrium container, the sediment and debris holder accumulated in the container can be easily emptied.

Connection Types

- Flanged Connection
- Tube Welded Connection
- Threaded Connection

! Measurements are approximate and may vary. Production is done according to project and application dimensions.

Neutralization Unit Pro



TECHNICAL INFORMATION						
Code	Capacity	Flow	Width	Depth	Height	Inlet-Outlet
MIT-NUP	kW	l/h	mm	mm	mm	inch
MIT-NUP-350	350	40	400	300	235	3/4"
MIT-NUP-500	500	60	400	300	235	3/4"
MIT-NUP-750	750	90	600	400	235	3/4"
MIT-NUP-1000	1000	120	600	400	235	3/4"
MIT-NUP-1500	1500	180	600	400	335	3/4"
MIT-NUP-2000	2000	240	600	600	335	1"
MIT-NUP-3000	3000	360	800	600	400	1"
MIT-NUP-4000	4000	480	800	600	400	1"

Due to condensation occurring during combustion and condensation of flue gases, pH values are reduced and condensate acid is formed. The condensate acid causes severe ecological problems and causes corrosive effects on the economizer and the boiler. The neutralization device prevents this problem by neutralizing the pH value.

Features

- Complies with legislation.
- Material is PP or HDPE.
- Easy to install and use.
- Easy maintenance and cleaning.
- Can be manufactured in different dimensions and capacities.

Certificates

- TSEK Certificate
- CE Certificate
- ISO 9001 Certificate

 Measurements are approximate and may vary. Production is done according to project and application dimensions.

Neutralization Unit Eco



TECHNICAL INFORMATION						
Code	Capacity	Flow	Width	Depth	Height	Inlet-Outlet
MIT-NUE	kW	l/h	mm	mm	mm	inch
MIT-NUE-350	350	50	400	300	300	1"
MIT-NUE-500	500	60	400	300	300	1"
MIT-NUE-750	750	100	565	410	370	1 1/2"
MIT-NUE-1000	1000	120	565	410	370	1 1/2"
MIT-NUE-1500	1500	180	600	490	340	1 1/2"
MIT-NUE-2000	2000	200	600	490	340	1 1/2"
MIT-NUE-2500	2500	250	800	600	500*	1 1/2"
MIT-NUE-3000	3000	300	800	600	500*	1 1/2"

Features

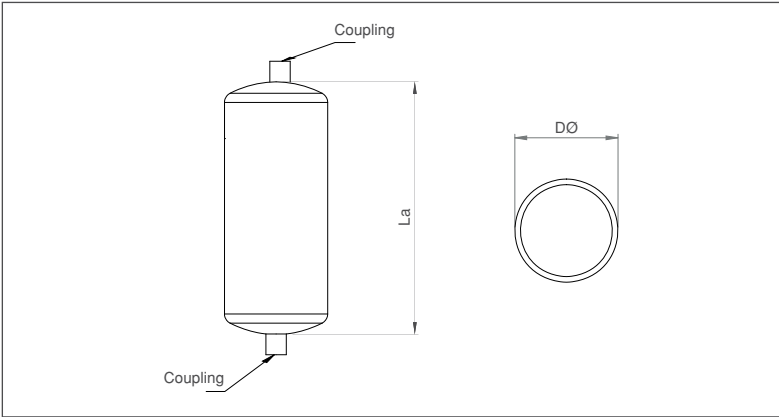
- Complies with legislation.
- Material is PP or HDPE.
- Easy to install and use.
- Easy maintenance and cleaning.
- Affordable and effective system.
- Various sizes and capacities can be manufactured.
- Cover bolts are stainless steel.
- Tank content; Lime Stone (Calcium Carbonate) and Neutralization Granules.

Caution

- The limestone in the tank should contain more than 90% calcium carbonate.
- Calcium carbonate is low (inactive particles in chemical reaction form sludge in the tank), thus preventing chemical reaction and fluid flow.
- When the amount of limestone in the tank falls below a certain level, new ones are placed.
- The pH value should be measured at periodic intervals.
- If the pH value is low, the stone level should be checked.

! Measurements are approximate and may vary. Production is done according to project and application dimensions. * These models are wheeled and the height including the wheel is 640 mm.

Air Tanks



TECHNICAL INFORMATION			
Code	Capacity	Body Diameter	Height
MIT-HT	lt	ØD	La
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

The air tank ensures that the air formed in the pipes and radiators in the central heating systems is easily collected and discharged from the top branch. Allows air in the system to be evacuated. Continuously evacuates air while the system is running. A relief valve or an air breather can be installed.

Features

- 10-16 atm maximum operation.
- The test pressure is 1.5 times the operating pressure.
- Maximum use temperature of 120 °C.
- Electrostatic powder coating.

Certificates

- TSEK Certificate
- CE Certificate
- ISO 9001 Certificate

 Measurements are approximate and may vary. Production is done according to project and application dimensions.



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



TCS **CE**

AT TİP İNCELEME SERTİFİKASI / EC TYPE EXAMINATION

Holder Of Certificate (Sertifika Sahibi) : EKİN ENDÜSTRİYEL İSITMA SOĞUTMA SAN. TİC.LTD.ŞTİ

Company Address (Firma Adresi) : Eskişehir M. Des. San. San. 35. 157. Sok. A Blok C B 14 Blok 2A 4 Ünye/Ordu

Production Address (Üretim Adresi) : Berg Mah. Tubaşık Yolu Arslanlar Cad. No 23 Gebze/ Kocaeli /Türkiye

Trade Mark (Ticari Marka) : MIT

Product (Ürün) : Kapalı Genleşme Tankı / Closed Expansion Vessel

Model(s) (Model) : EKİ (Like / They have shown in the attached list)

The technical documentation review and evaluation of the product(s) was done for above described product(s) according to 87/23/EEC Pressure Equipment Directive Annex II Model B EC Type Examination of the company whose information given above and it was found suitable for conditions of Technical Regulation/Technical Standards / Yukarıda bilgileri verilen ürün Kurulupun (sistem) gerçekleştirildiği yukarıda belirtilen standartların Teknik dokümanların incelenmesi ve Ürünün/Ürünlerin Değerlendirilmesi 87/23/AT Basınç Ekipmanları Yönetmeliğinin Ek II Model B AT Tip İncelemesi (Ekim) kapsamında gerçekleştirildiği ve Teknik Dokümanların/Ürünlerin/Standart parçaların uygun olduğu tespit edilmiştir.

For affixing the Notified Body number with CE mark, company has to carry out one of the modules mentioned in 87/23/EEC Pressure Equipment Directive Annex II / Kurulupun CE İşareti ile birlikte Onaylatması Kuruluş Kimlik numarasını işlevsel olması için 87/23/AT Basınç Ekipmanları Yönetmeliği EK II'de belirtilen gösterim modüllerinden birini uygulaması gerekmektedir.

Sertifika No / Certificate No : 565-C01-00-TN-PED-14-082

Rapor Numarası / Report No : R-565-PED-001

Sertifika Tarihi / Certificate Date : 18.11.2018

Geçerlilik Tarihi / Expiry Date : 18.11.2023

Yer / Place : İSTANBUL

APPROVAL ONLY

Emre TOKGÖRÜS

General Manager / Genel Müdür

Manufacturer will inform TCS International Certification about every modification that can affect safety of equipments / İmalatçı TCS Uluslararası Belgelendirme'ye içinde yapılabilecek her türlü değişiklikten önce bilgi vermesi gerekmektedir.

1444 0100 00 12 3024000

TCS

TSE **TÜRK STANDARDLARI ENSTİTÜSÜ** **TÜRK STANDARDLARINA UYGUNLUK BELGESİ** **TURKISH STANDARDS INSTITUTION** **CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS**

Belge Numarası / REFERENCE NUMBER OF LICENCE : 011181-TSE-02/01

Belgenin İlk Veriliş Tarihi / DATE OF FIRST ISSUE OF LICENCE : 07.06.2018

Belgenin Son Geçerlilik Tarihi / LICENCE VALID UNTIL : 07.06.2019

Belge Sahibi Kuruluşun Adı / NAME OF THE LICENCE HOLDER : EKİN ENDÜSTRİYEL İSITMA SOĞUTMA SAN. VE TİC. LTD. ŞTİ.

Belge Sahibi Kuruluşun Adresi / ADDRESS OF THE LICENCE HOLDER : DUDULLU OSB MAH. DES SANAYİ SİT. B14 BLOK 107. SOK. NO:2-4-6-8 ÜMRANİYE İSTANBUL/TÜRKİYE

Üretim Yeri Adı / NAME OF THE MANUFACTURING PLACE : EKİN ENDÜSTRİYEL İSITMA SOĞUTMA SAN. VE TİC. LTD. ŞTİ.

Üretim Yeri Adresi / ADDRESS OF THE MANUFACTURING PLACE : DUDULLU OSB MAH. DES SANAYİ SİT. B14 BLOK 107. SOK. NO:2-4-6-8 ÜMRANİYE İSTANBUL/TÜRKİYE

İptal Edilen Belge Numarası (Varsa) / INDICATION OF SUPERSEDED LICENCE (If any) :

Tescilli Ticari Markası / REGISTERED TRADE MARK : MIT

İlgili Türk Standardı / RELATED TURKISH STANDARD : TS EN 13831 / Su tesisatları için diyaframlı kapalı genleşme tankları / 09.11.2010

Belge Kapsamı / SCOPE OF LICENCE : MIT TİCARİ MODELİ, EN YÜKSEK ÇALIŞMA BASINCI 10 BAR OLAN, SU TESİSATLARI İÇİN DİYAFRAMLİ KAPALI GENLEŞME TANKI

08.06.2018

Belgelendirme Merkezi Başkanı Adına

ÖMER FARUK DUMAN

SAKARYA BELGELENDİRME MÜDÜRÜ

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

"Bu belge, her ne suretle kullanılsa da, kullanıma veya okunmaya zorlanamaz şekilde değiştirilmez, kopya ve kopya yapılmaz."

TSE SAHİBİ BELGELENDİRME MÜDÜRLÜĞÜ / Adres : 1. Organize Sanayi Bölgesi Çöpçü Konağı Sektör Ofisi Tuncel Cad. Hani / ADAPAZARI - Tel: 2642912675 Faks: 2642912676

TSE BELGELENDİRME MERKEZİ BAŞKANLIĞI / Adres : Necatibey Cad. No:112 08100 Bakanlık/ANKARA - Tel: 0 312 416 64 61 / 416 64 27, Faks: 0 312 416 66 17 e-posta : timg@tse.org.tr, web : www.tse.org.tr

<https://evrakkontrol.tse.org.tr/BelgeDegisilme.aspx?ym=2d8gk6u> adresinden belgenin doğruluğunu ve geçerliliğini sorgulayınız.

1 / 1

Certificate of Registration

CERTIFICATE OF CONFORMITY

TECHNICAL FILE-TEKNİK DOSYA UYGUNLUK SERTİFİKASI

Certificate No: PC-1066

CE

to the Manufacturer / aşağıdaki üretici için:

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

Adres: TCS Tuncel Şişeli 208. Sokak B 1. Kat Kat: 2 Ünye/Ordu / TÜRKİYE

Product and designation of type / Ürün ve belirlenen özellik:

Air Separator/Hava Ayırıcı / MIT Branded/MIT Markalı

HA20, HA25, HA32, HA40, HA50, HA65, HA80, HA100, HA125, HA150, HA200, HA250, HA300, HA350, HA400

The products is covered by the following EU-Directive / Ürünler aşağıdaki yönetmelik kapsamındadır:

2014/68/EU Pressure Equipment Directive (PED)

Observing all EU-Directives / observing all standards, the CE mark can be available on the products / Ürünler abt yönetmeliklerini /standartları dikkate alınarak CE işareti kullanılabilir.

This certificate covers the above product... Does not cover all products produced, covers the above products / Bu sertifika yukarıdaki ürünleri kapsamaktadır, Ürünlerin tüm ürünleri kapsamaz, yukarıdaki ürünleri kapsar.

Certificate Date / Sertifika Tarihi : November 26th, 2015 / 26 Kasım 2015

Date of Initial Registration / İlk Belgelendirme Rapor Tarihi : March 23rd, 2018 / 23 Mart 2018

Date of Last Issue / Son Tarih : March 23rd, 2019 / 23 Mart 2019

Date of Expiry / Geçerlilik Süresi Bitimi : March 23rd, 2019 / 23 Mart 2019

Signed / İmza

ISQ International Inspection Co., Ltd.

www.belgelendirme.com.tr

www.belgelendirme.com.tr

Assurance of Quality (ISO 9001:2015) Accredited

WELDING PROCEDURE QUALIFICATION RECORD (PQR) (Section IX, ASME Boiler and Pressure Vessel Code)

TUV NORD

CERTIFICATE 09-702-01-C-10-2017-231402991

Procedure Qualification Record No.: wPQR-EX-BMW-01

Company Name: Ekin Endüstriyel Isıtma Soğutma San. Tic. Ltd. Şti. Address: ÇES Sarayı Sırtı 107. Sok. B14 Blok No:2-4-6-8 Ünye/Ordu/İST

Welding Process(es): GTAW Type(s): Manual

JOINTS (QW-400) Geometries of Test Coupons

60°

5

2

1

1

BASE METALS (QW-403)

Material Spec.: 316 (C200MM27-12-2)

Type or Grade, or UNS Number: A/1 to A/3

Thickness of Test Coupon: 5

Diameter of Test Coupon: N/A

Max. Pass Thickness (≤ 13 mm): No pass over 13mm

Other:

POSTWELD HEAT TREATMENT (QW-407)

Temperature: -

Time: -

Other: -

GAS (QW-406)

Shielding: GTAW

Shielding: FCAW

Trailing: -

Backing: -

PERCENT COMPOSITION

Gas(es): Ar

Shielding: 99.9

Flow Rate: 6-9 L/min

FILLER METALS (QW-404)

GTAW: A5.9

ER 308 L

SG 308 L

Filler Metal P. No.: 6

Weld Metal Analysis A-No.: 1

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-405) GTAW

Current: DC

Polarity: EN

Amperage: 95-110

Voltage: 30-32

Tungsten Electrode Size: 2

Heat Input: 0.61-1.71 kJ/mm

Mode of Metal Transfer for GMAW (FCAW): N/A

TECHNIQUES (QW-410)

Travel Speed (mm/min): See below table

String or Weave Bead: String Bead

Oscillation: N/A

Multi/Single Pass (per side): Multi Pass

Single or Multiple Electrodes: Single

Initial and Interpass Cleaning: Grinding and Brushing

Method of Rock Gouging: Grinding

Other (QW-410.11 / QW-410.14):

Actual Values

Weld Layers: 3

Process: GTAW

Class: ER 308 L

Class: 2

DC EN

205-130

15-32

1.87

0.61-0.71

3

GTAW

ER 308 L

2

DC EN

205-130

15-32

1.86

0.61-0.71

3

GTAW

ER 308 L

2

DC EN

205-130

15-32

1.77

1.5-1.71

4

GTAW

ER 308 L

2

DC EN

205-130

15-32

1.8

1.75-1.77

TUV Teknik Kontrol ve Belgelendirme A.Ş.

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- 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.



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Contact: +49 211 93079616



LUMIPRA CONTACT

+49 211 93079616

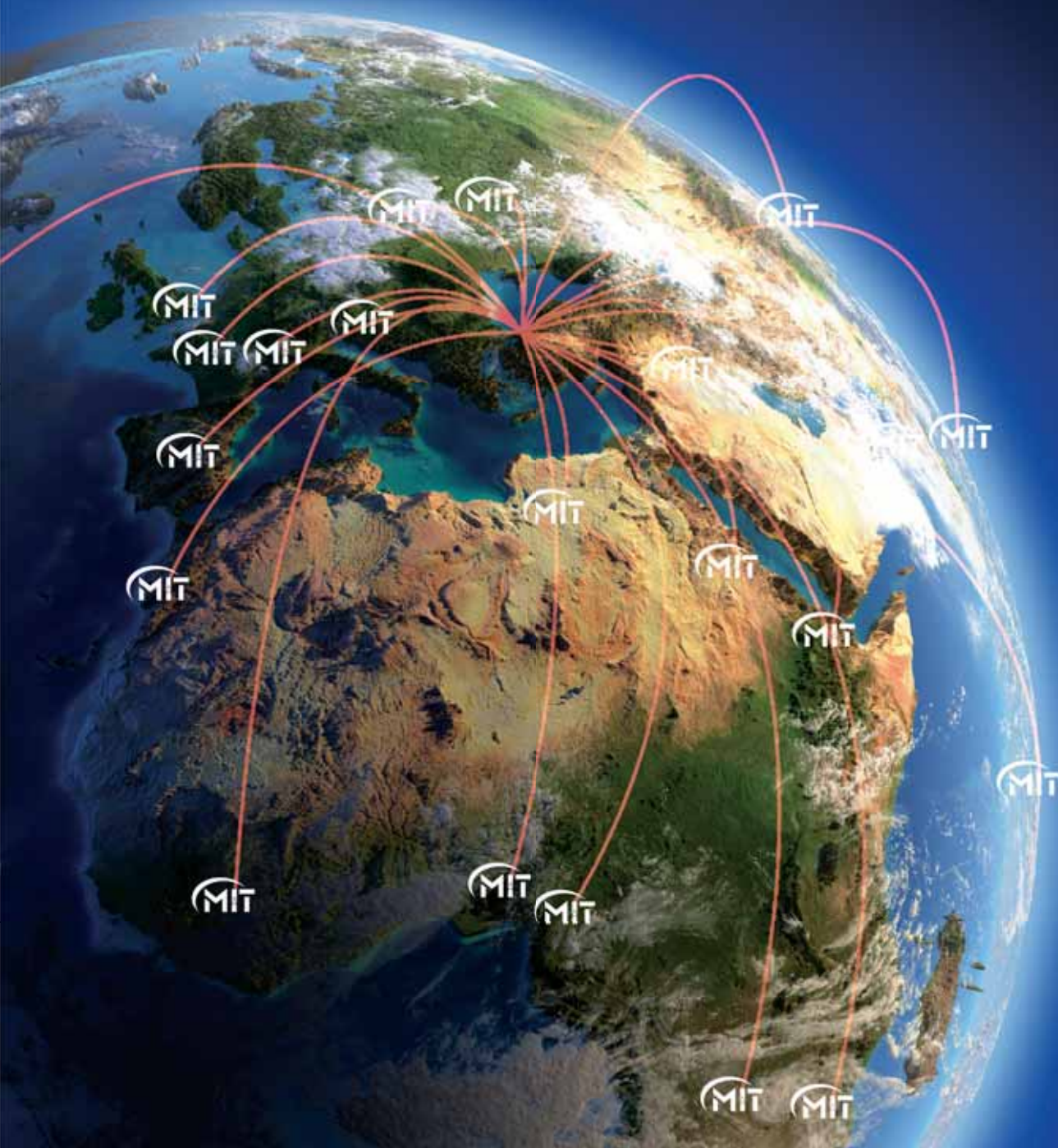
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