



EKİN ENDÜSTRİYEL

**AIR TANKS**  
**PRODUCT CATALOGUE**

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**EKIN ENDÜSTRİYEL**  
Isıtma-Soğutma San. Tic. Ltd. Şti.





## Sustainable Innovation, Quality Standardization and Dynamism

Ekin Endüstriyel, 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

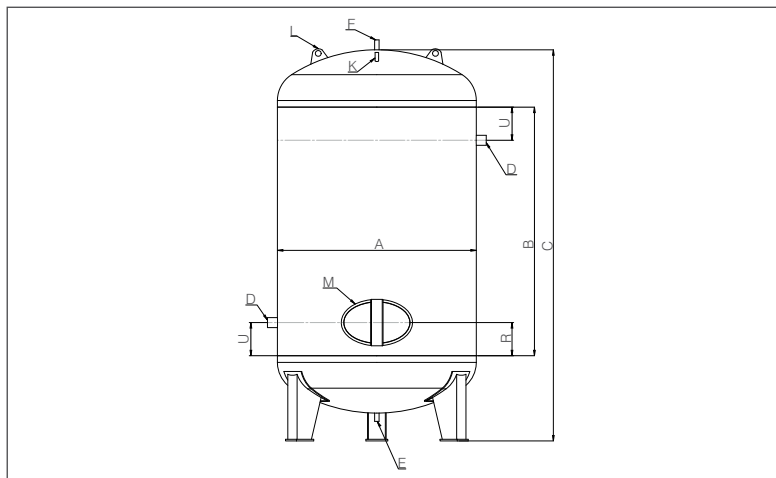
# Contents

1

Air Tanks



## MIT AIR TANKS



### TECHNICAL INFORMATION

| Volume   | A    | B    | C    | D      | F    | K    | E    | M       | U   | R   | L | Pressure (bar) | Wall Thickness (mm) | Weight (kg) |
|----------|------|------|------|--------|------|------|------|---------|-----|-----|---|----------------|---------------------|-------------|
| 100 lt   | 323  | 1000 | 1300 | 3/4"   | 1/2" | 1/2" | 1/2" | -       | 200 | -   | 1 | 10             | 3                   | 50          |
|          |      |      |      |        |      |      |      |         |     |     |   | 16             | 4                   | 65          |
|          |      |      |      |        |      |      |      |         |     |     |   | 40             | 8                   | 130         |
| 200 lt   | 450  | 1200 | 1500 | 3/4"   | 1/2" | 1/2" | 1/2" | -       | 200 | -   | 1 | 10             | 4                   | 85          |
|          |      |      |      |        |      |      |      |         |     |     |   | 16             | 5                   | 100         |
|          |      |      |      |        |      |      |      |         |     |     |   | 40             | 10                  | 220         |
| 300 lt   | 550  | 1200 | 1600 | 3/4"   | 1/2" | 1/2" | 1/2" | -       | 200 | -   | 1 | 10             | 4                   | 110         |
|          |      |      |      |        |      |      |      |         |     |     |   | 16             | 5                   | 130         |
|          |      |      |      |        |      |      |      |         |     |     |   | 40             | 10                  | 275         |
| 500 lt   | 600  | 1500 | 2100 | 1 1/4" | 1/2" | 1/2" | 1/2" | -       | 200 | -   | 1 | 10             | 4                   | 155         |
|          |      |      |      |        |      |      |      |         |     |     |   | 16             | 5                   | 190         |
|          |      |      |      |        |      |      |      |         |     |     |   | 40             | 10                  | 380         |
| 1000 lt  | 850  | 1500 | 2250 | 1 1/4" | 1/2" | 1/2" | 1/2" | 140x180 | 200 | 200 | 1 | 10             | 5                   | 295         |
|          |      |      |      |        |      |      |      |         |     |     |   | 16             | 6                   | 340         |
|          |      |      |      |        |      |      |      |         |     |     |   | 40             | 12                  | 640         |
| 1500 lt  | 1000 | 1500 | 2350 | 1 1/4" | 3/4" | 1/2" | 1/2" | 140x180 | 200 | 200 | 1 | 10             | 6                   | 525         |
|          |      |      |      |        |      |      |      |         |     |     |   | 16             | 8                   | 660         |
|          |      |      |      |        |      |      |      |         |     |     |   | 40             | 14                  | 1300        |
| 2000 lt  | 1150 | 1500 | 2350 | 2"     | 3/4" | 1/2" | 3/4" | 140x180 | 200 | 200 | 2 | 10             | 6                   | 530         |
|          |      |      |      |        |      |      |      |         |     |     |   | 16             | 8                   | 700         |
|          |      |      |      |        |      |      |      |         |     |     |   | 40             | 14                  | 1250        |
| 3000 lt  | 1150 | 2000 | 3100 | 2"     | 3/4" | 1/2" | 3/4" | 140x180 | 200 | 200 | 2 | 10             | 6                   | 660         |
|          |      |      |      |        |      |      |      |         |     |     |   | 16             | 8                   | 880         |
|          |      |      |      |        |      |      |      |         |     |     |   | 40             | 14                  | 1520        |
| 4000 lt  | 1660 | 1500 | 2750 | DN 80  | 2"   | 1/2" | 1"   | 320x440 | 375 | 375 | 2 | 10             | 8                   | 1150        |
|          |      |      |      |        |      |      |      |         |     |     |   | 16             | 12                  | 1550        |
| 5000 lt  | 1600 | 2000 | 3100 | DN 80  | 2"   | 1/2" | 1"   | 320x440 | 375 | 375 | 2 | 10             | 8                   | 1360        |
|          |      |      |      |        |      |      |      |         |     |     |   | 16             | 12                  | 1860        |
| 6000 lt  | 1600 | 2500 | 3600 | DN 80  | 2"   | 1/2" | 1"   | 320x440 | 375 | 375 | 2 | 10             | 10                  | 1700        |
|          |      |      |      |        |      |      |      |         |     |     |   | 16             | 14                  | 2150        |
| 8000 lt  | 1600 | 3000 | 4600 | DN 100 | 2"   | 1/2" | 1"   | 320x440 | 375 | 375 | 2 | 10             | 10                  | 2200        |
|          |      |      |      |        |      |      |      |         |     |     |   | 16             | 14                  | 3000        |
| 10000 lt | 1900 | 3000 | 4350 | DN 100 | 2"   | 1/2" | 1"   | 320x440 | 375 | 375 | 2 | 10             | 10                  | 2100        |
|          |      |      |      |        |      |      |      |         |     |     |   | 16             | 14                  | 3450        |

The air tank is one of the main products that balances the pressure fluctuations at the compressor outlet. Provides air pressure at constant pressure. Stores the amount of air required to meet sudden air demands exceeding the compressor capacity.

The capacity of the air tank is determined depending on the compressor capacity and the shape of the air demand. Air tanks should be installed where the ambient temperature is low. The place where the tank is located in a moist and corrosionable place should be produced by increasing the strength by removing the double layer primer.

Air tanks are manufactured in such a way that they can be fitted with the necessary accessories.

For example;

- Safety valve
- Drain valve
- Manometer



Our air tanks are produced in 10-16-20 and 40 bars. Custom designs can be produced.



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

**Certificate of Registration**  
**CE**

**Manufacturer:**  
EKİN ENDÜSTRİYEL ISITMA SOĞUTMA SAN. VE TİC.LTD.ŞTİ.

**Address:**  
ATATÜRK CAD. DES SANAYİ BİTESİ 107. SOK. B 14 BLOK NO:24 4 ÜMRANİYE / İSTANBUL / TURKEY

**Product:**  
HEATING/COOLING UNIT

**Brand:**  
MIT

**Type:**  
- MIT K11 EXD (2500W, 3000W, 3500W, 4000W, 4500W, 5000W, 5500W, 6000W, 6500W)  
- MIT K11 PRO (2500W, 3000W, 3500W, 4000W, 4500W, 5000W, 5500W, 6000W)

**Standard:**  
EN 12566-2:2014, EN 12566-3:2014

**Directive:**  
2014/52/EU Low Voltage Directive

**Notes:**  
This certificate with the relevant technical files is reviewed and attached with presumption of compliance with the essential requirements listed in the CE Declaration below. Other relative directives must be applied. This attestation does not exempt the manufacturer from the obligation to issue the declaration of conformity. This certificate does not remove the responsibility to national / international trade of the company for product safety, labelling etc.

**Table:**

|                  |               |
|------------------|---------------|
| Certificate No   | TR-12566-1001 |
| Certificate Date | 11.01.2019    |
| Issue Date       | 19.01.2019    |
| Expiry Date      | 19.01.2020    |

**ISQ International Certification Co., Ltd.**

**Certificate of Compliance**

**APPLICANT:** EKİN ENDÜSTRİYEL ISITMA SOĞUTMA SAN. TİC. LTD. ŞTİ. EDİRKENT M. DESSAH SAN. SİT. 107. SK. ATATÜRK C.B. 14 BLOK SA 4 ÜMRANİYE / İSTANBUL.

**MANUFACTURE:** EKİN ENDÜSTRİYEL ISITMA SOĞUTMA SAN. TİC. LTD. ŞTİ. EDİRKENT M. DESSAH SAN. SİT. 107. SK. ATATÜRK C.B. 14 BLOK SA 4 ÜMRANİYE / İSTANBUL.

**TRADE MARK / PRODUCT TYPE / MODEL:** MIT ELECTRICAL WATER HEATER - ELEKTRİK SUYU ISITICI / BOYLER

**Verification to:** Standard: EN 60335-2-21, EN 50574-3, EN 12567 (related to CE Directive) 2014/26/EU (Low Voltage)

**Remark:** The product(s) has been certified on a voluntary basis. The product(s) satisfies the requirements of the Certification Mark of MEDCERT, in reference to the above listed Standard(s). The above Certification Mark can be affixed on the product(s) accordingly to the MEDCERT regulation about its release and its use. Regulation can be found at [www.medcert.com.tr](http://www.medcert.com.tr) Whereas the Manufacturer is responsible of the CE verification of the product(s) and not exempted to perform all the necessary activities before placing the product(s) on the market. The Manufacturer is also responsible to maintain efficient the internal production control to ensure the product(s) are in compliance with the Certification MEDCERT Mark. This certificate can be checked for validity at [www.medcert.com.tr](http://www.medcert.com.tr)

**Table:**

|                                      |            |
|--------------------------------------|------------|
| Sertifika No / Certificate No        | CE-115202  |
| Değerlendirme Tarihi / Date of Audit | 21.11.2015 |
| Yürürlük Tarihi / Date of Issuance   | 26.11.2015 |
| Geçerlilik Tarihi / Expiry Date      | 26.11.2020 |

**ISQ International Certification Co., Ltd.**

**Certificate of Registration**  
**CE**

**Manufacturer:**  
EKİN ENDÜSTRİYEL ISITMA SOĞUTMA SAN. VE TİC.LTD.ŞTİ.

**Address:**  
ATATÜRK CAD. DES SANAYİ BİTESİ 107. SOKAK B 14 BLOK NO:24 4 ÜMRANİYE / İSTANBUL / TURKEY

**Product:**  
SINGLE SEPARATE WATER HEATER - TEK BİRİKLİ SU ISITICI

**Type(s) / Model(s):**  
MIT 101, MIT 161, MIT 201, MIT 301, MIT 351, MIT 501, MIT 601, MIT 801, MIT 1001, MIT 1501, MIT 2001, MIT 2501, MIT 3001, MIT 5011, MIT 4001, MIT 5001

**Trade Mark:**  
MIT

**Standard:**  
EN 60335-2-21, EN 50574-3, EN 12567

**Product Image(s):**

**Directive:**  
2014/52/EU Low Voltage Directive (LVD)

**Notes:**  
This certificate with the relevant technical files is reviewed and attached with presumption of compliance with the essential requirements listed in the CE Declaration below. Other relative directives must be applied. This attestation does not exempt the manufacturer from the obligation to issue the declaration of conformity. This certificate does not remove the responsibility to national / international trade of the company for product safety, labelling etc.

**Table:**

|                  |               |
|------------------|---------------|
| Certificate No   | TR-12567-1007 |
| Certificate Date | 05.04.2017    |
| Issue Date       | 06.04.2018    |
| Expiry Date      | 06.04.2019    |

**ISQ International Certification Co., Ltd.**

**Eurasian Conformity Declaration**

**Declaration of Conformity:** The product(s) has been certified on a voluntary basis. The product(s) satisfies the requirements of the Certification Mark of MEDCERT, in reference to the above listed Standard(s). The above Certification Mark can be affixed on the product(s) accordingly to the MEDCERT regulation about its release and its use. Regulation can be found at [www.medcert.com.tr](http://www.medcert.com.tr) Whereas the Manufacturer is responsible of the CE verification of the product(s) and not exempted to perform all the necessary activities before placing the product(s) on the market. The Manufacturer is also responsible to maintain efficient the internal production control to ensure the product(s) are in compliance with the Certification MEDCERT Mark. This certificate can be checked for validity at [www.medcert.com.tr](http://www.medcert.com.tr)

**Table:**

|                     |            |
|---------------------|------------|
| Судейство           | 01.07.2019 |
| Судейский протокол  | 01.07.2019 |
| Судейство признания | 01.07.2019 |
| Судейство признания | 01.07.2019 |

**ISQ International Certification Co., Ltd.**



### AT TİP İNCELEME SERTİFİKASI / EC TYPE EXAMINATION

**Holder Of Certificate (Sertifika Sahibi) :** EKIN ENDÜSTRİYEL İSITMA SOĞUTMA SAN. TİC LTD. ŞTİ  
**Company Address (Firma Adresi) :** Esenler M.Em. San. San. St. 107. Sok. Akatlar C.B 14Blok 2A 4 Çarşıya/İstanbul  
**Production Address (Üretim Adresi) :** Barış Mah. Tülöke Yolu Anadol Cad.No 23 Gedizli Köyü/İstanbul/Türkiye  
**Trade Mark (Ticari Marka) :** MIT  
**Product (Ürün) :** Kapalı Genleşme Tankı / Closed Expansion Vessel  
**Modeller (Model) :** EK1 Ürün / 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 97/23/EC Pressure Equipment Directive Annex B Modül B EC Type Examination of the company whose information given above and it was found suitable for conditions of Technical Regulations Harmonized Standards / Yukarıda listelenen teknik dokümanların incelenmesi ve Ürün(Ürünleri) Değerlendirilmesi 97/23/AT Basınç Ekipmanları Yönetmeliğinin EK B Modül B AT Tip İncelemesi (Bkz) kapsamında gerçekleştirildiği ve Teknik Düzenleme/Ürünleştirilme Standartı parçalarına uygun olduğu tespit edilmiştir.

For affixing the Notified Body number with CE mark , company has to carry out one of the modules mentioned in 97/23/EC Pressure Equipment Directive Annex B / Kuruluşun CE İşareti ile birlikte Ürünlerinin Kuruluş Kıtak numarasını içeren bir EK B Modül B AT Tip İncelemesi (Bkz) kapsamında gerçekleştirildiği ve Teknik Düzenleme/Ürünleştirilme Standartı parçalarına uygun olduğu tespit edilmiştir.

Sertifika No / Certificate No : 965-021-00-TR-PEE-14-052  
Rapor Numarası / Report No : R-965-PEE-001  
Sertifika Tarihi / Certificate Date : 18.11.2015  
Geçerlilik Tarihi / Expiry Date : 18.11.2025  
Yer / Place : İSTANBUL

Manufacturer will inform TCS International Certification about every modification that can affect safety of equipment / Üretici TCS Uluslararası Belgelendirme'ye her türlü yapılabilecek değişiklikler için bildirecektir.

08.06.2018  
Belgelendirme Merkezi Başkanı Adına  
**ÖMER FARUK DUMAN**  
**SAKARYA BELGELENDİRME MÜDÜRÜ**



### TÜRK STANDARDLARI ENSTİTÜSÜ TÜRK STANDARDLARINA UYGUNLUK BELGESİ

### TURKISH STANDARDS INSTITUTION CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS


**BELGE NUMARASI / REFERENCE NUMBER OF LICENCE** : 011181-TSE/02/01  
**BELGENİN İLK VERİLİŞ TARİHİ / DATE OF FIRST ISSUE OF LICENCE** : 07.06.2018  
**BELGENİN SON GEÇERLİLİK TARİHİ / LICENCE VALID UNTIL** : 07.06.2019  
**BELGE SAHİBİ KURULUŞUN ADI / NAME OF THE LICENCE HOLDER** : EKIN ENDÜSTRİYEL İSITMA SOĞUTMA SAN. VE TİC. LTD. ŞTİ.  
**BELGE SAHİBİ KURULUŞUN ADRESİ / ADDRESS OF THE LICENCE HOLDER** : DUDULLU OSB MAH. DES SANAYİ SİT. B14 BLOK 107. SOK. NO:2-4-6-8 ÜMRANİYE İSTANBUL/TÜRKİYE  
**ÜRETİM YERİ ADI / NAME OF THE MANUFACTURING PLACE** : EKIN ENDÜSTRİYEL İSITMA SOĞUTMA SAN. VE TİC. LTD. ŞTİ.  
**ÜRETİM YERİ ADRESİ / ADDRESS OF THE MANUFACTURING PLACE** : DUDULLU OSB MAH. DES SANAYİ SİT. B14 BLOK 107. SOK. NO:2-4-6-8 ÜMRANİYE İSTANBUL/TÜRKİYE  
**İPTAL EDİLEN BELGE NUMARASI (Varsa) / INDICATION OF SUPERSEDED LICENCE (if any)** :  
**TESCİLLİ TİCARİ MARKASI / REGISTERED TRADE MARK** : MIT  
**İLGİLİ TÜRK STANDARTI / RELATED TURKISH STANDARD** : TS EN 13831 / Su tesisatları için diyaframli kapalı genleşme tankları / 09.11.2010  
**BELGE KAPSAMI / 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, üretici yerinin, Emisyonlu birliğiyle ilgili şartları kapsadığına dairdir.  
Bu belge hiç bir şekilde telif edilemez, kopyalanamaz, çoğaltılamaz, değiştirilemez, satılamaz ve yayımlanamaz.  
TSE SAKARYA BELGELENDİRME MÜDÜRLÜĞÜ Adres : 1. Organize Sanayi Bölgesi Doğu Kapısı, 38112 Sakarya Oba Yürme Cad. Halk / ADAPAZARI / Tel: 2643292875  
Faks: 2642912878  
TSE BELGELENDİRME MERKEZİ BAŞKANLIĞI Adres: Necatibeyi Cad. No:112 06100 Sakarya/ANKARA - Tel: 0 312 416 64 61 / 416 64 27, Faks: 0 312 416 66 17  
e-posta: tmb@tse.org.tr, web: www.tse.org.tr

### Certificate of Registration CERTIFICATE OF CONFORMITY

TECHNICAL FILE-TEKNİK DOSYA UYGUNLUK SERTİFİKASI  
Certificate No: PC-1066



to the Manufacturer / aşağıdaki üretici için:

**EKIN ENDÜSTRİYEL İSITMA SOĞUTMA SAN. VE TİC.LTD.ŞTİ.**  
Muhür No: 965-021-00-TR-PEE-14-052


Product and designation of type / Ürün ve belirtilen tipin:  
Air Separator/Hava Ayırıcı / MIT Brand/ 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 for the product, the CE mark can be available on the products /  
Ürüne ait tüm Avrupa Direktifleri için, ürünler üzerinde CE işareti kullanılabilir.

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

Certificate Date / Sertifika Tarihi:  
Date of Initial Registration / İlk Belgelendirme Kayıt Tarihi : November 26th, 2015 / 26 Kasım 2015  
Date of Last Issue / Yayımlanma Tarihi : March 23rd, 2018 / 23 Mart 2018  
Date of Expiry / Geçerlilik Bitimi : March 23rd, 2019 / 23 Mart 2019


Signed / İmzalı:   
TÜRKİYE İSITMA VE SOĞUTMA ENSTİTÜSÜ  
www.belgelendirme.com.tr

İSO 9001:2015 Certified  
www.belgelendirme.com.tr

Assure OHSAS 18001:2007 Accredited  
www.belgelendirme.com.tr


### WELDING PROCEDURE QUALIFICATION RECORD (PQR)

(Section IX, ASME Boiler and Pressure Vessel Code)



CERTIFICATE 09-702-01-C-10-2017-211402991

Procedure Qualification Record No: wPQR-43-BW-01  
Company Name: Ekin Endüstriyel Isıtma Soğutma San. Tic. Ltd. Şti. Address: DES Sanayi Sitesi 107.Sok. B14 Blok No:2-4-6-8 Ümraniye/İST  
Welding Process(es): GTAW Type(s): Manual



JOINTS (QW-402) General Design of Test Coupon

|                              |                              |   |                                       |
|------------------------------|------------------------------|---|---------------------------------------|
| <b>BASE METALS (QW-403)</b>  | ASTM<br>316 (22CrNiMo17-2-2) | <b>POSTWELD HEAT TREATMENT (QW-407)</b> | Temperature: -<br>Time: -<br>Other: - |
| Material Spec.:              | 316                          |   |                                       |
| Type or Grade, or UNS Number | 6/1 80 8/1                   |   |                                       |
| P-No./P-No.                  | 5                            |   |                                       |
| Thickness of Test Coupon     | N/A                          | <b>GAS (QW-408)</b>                     | Gas(es) Mixture Flow Rate             |
| Diameter of Test Coupon      | No pass over 13mm            | Shielding - GTAW Ar 100% 6-9 l/min      |                                       |
| Other:                       |                              | Shielding - FCAW - - - - -              |                                       |
|                              |                              | Trailing Backing - - - - -              |                                       |

|                               |           |  |                 |
|-------------------------------|-----------|--|-----------------|
| <b>FILLER METALS (QW-404)</b> | GTAW N/A  | <b>ELECTRICAL CHARACTERISTICS (QW-409)</b> | GTAW            |
| SFA Specification             | AS.9      | Current                                    | DC              |
| AWS Classification            | ER 308 L  | Polarity                                   | EN              |
| Trade Name                    | S         | Amps                                       | 95-110          |
| Filler Metal P-No.            | 5         | Volts                                      | 19-17           |
| Weld Metal Analysis A-No.     | 2         | Tungsten Electrode Size                    | 2               |
| Size of Filler Metal          | Solid Rod | Heat Input                                 | 0.63-1.75 kJ/mm |
| Filler Metal Product Form     | N/A       | Mode of Metal Transfer for GTAW (FCAW)     | N/A             |
| Supplemental Filler Metal     | 5         | Other (QW-410.11 / QW-410.04)              |                 |
| Weld Metal Thickness          | N/A       |  |                 |
| Flux Type                     | N/A       |  |                 |
| Flux Trade Name               | N/A       |  |                 |
| Other (QW-404.14)             | N/A       |  |                 |

|                                     |     |                                |                       |
|-------------------------------------|-----|--------------------------------|-----------------------|
| <b>POSITION (QW-405)</b>            | 1G  | <b>TECHNIQUE (QW-410)</b>      | See below table       |
| Position of Groove                  | N/A | String or Wave Bead            | String Bead           |
| Weld Progression (Up/HiL, Down/HiL) | N/A | Oscillation                    | N/A                   |
| Other                               |     | Multi/ Single Pass (per side)  | Multi Pass            |
|                                     |     | Single or Multiple Electrodes  | Single                |
|                                     |     | Initial and Interpass Clearing | Grinding and Brushing |
|                                     |     | Method of Back Gouging         | Grinding              |
|                                     |     | Other (QW-410.11 / QW-410.04)  |                       |

| Weld Layer | Process | Filler Metal |           | Tungsten        |                | Welding (H) | Travel Speed (mm/min) | Heat Input (kJ/cm) |
|------------|---------|--------------|-----------|-----------------|----------------|-------------|-----------------------|--------------------|
|            |         | Class        | Size (mm) | Type / Polarity | Amps Range (A) |             |                       |                    |
| 1          | GTAW    | ER 308 L     | 2         | DC EN           | 305-110        | 19-17       | 3.87                  | 0.63-0.71          |
| 2          | GTAW    | ER 308 L     | 2         | DC EN           | 305-110        | 19-17       | 3.76                  | 0.61-0.69          |
| 3          | GTAW    | ER 308 L     | 2         | DC EN           | 305-110        | 19-17       | 3.77                  | 0.61-0.71          |
| 4          | GTAW    | ER 308 L     | 2         | DC EN           | 305-110        | 19-17       | 3.8                   | 0.61-0.71          |

TÜV TüRKİYE Kontrol ve Belgelendirme A.Ş.  
Ayrancıoğlu Cad. Paşa 58. Katlı Plaza No: 2-4 Kat, Etiler/Beşiktaş, İstanbul-TÜRKİYE  
Telefon: +90 212 235 20 42 Faks: +90 212 295 58 44 E-mail: tuv.turkey@tuv.com.tr

**TÜRK STANDARLARI ENSTİTÜSÜ**  
**TÜRK STANDARLARINA UYGUNLUK BELGESİ**  
**TURKISH STANDARDS INSTITUTION**  
**CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS**

Markanın Tanımı / Description of the Mark  
**TSE** **TSE** **TSE**

|  |   |
|--|---|
| <b>BELGE NUMARASI</b><br>REFERENCE NUMBER OF LICENSE                                     | 211181-TSE-01401  |
| <b>BELGENİN İLK YERİLEŞTİRİLMİŞ TARİHİ</b><br>DATE OF FIRST ISSUE OF LICENSE             | 14.12.2016  |
| <b>BELGENİN SON GEÇERLİLİK TARİHİ</b><br>LICENCE VALID UNTIL                             | 14.12.2018  |
| <b>BELGE SAHİBİ KURULUŞUN ADI</b><br>NAME OF THE LICENSE HOLDER                          | EKİN ENDÜSTRİYEL ISITMA SOĞUTMA SAN. VE TİC. LTD.ŞTİ.   |
| <b>BELGE SAHİBİ KURULUŞUN ADRESİ</b><br>ADDRESS OF THE LICENSE HOLDER                    | DUĞUÇLU ÖZS MAH. DEĞ-107 SK. NO:2 ÜMRANİYE İSTANBUL/TÜRKİYE   |
| <b>ÜRETİM YERİ ADI</b><br>NAME OF THE MANUFACTURING PLACE                                | EKİN ENDÜSTRİYEL ISITMA SOĞUTMA SAN. VE TİC. LTD.ŞTİ.   |
| <b>ÜRETİM YERİ ADRESİ</b><br>ADDRESS OF THE MANUFACTURING PLACE                          | DUĞUÇLU ÖZS MAH. DEĞ-107 SK. NO:2 ÜMRANİYE İSTANBUL/TÜRKİYE   |
| <b>İPTAL EDİLEN BELGE NUMARASI (Varlık)</b><br>INDICATION OF SUPERSEDED LICENSE (if any) |   |
| <b>TEKİLLİK TİCARİ MARKASI</b><br>REGISTERED TRADE MARK                                  | MT + Sani   |
| <b>İLKÖLÜ TÜRK STANDARTI</b><br>RELATED TURKISH STANDARD                                 | TS 736 / Soak ve Nefeslenmiş (Boyerler) - Soak ve Kaplan su veya buhar ile yapılan / 02.04.2018   |
| <b>BELGE KAPSAMI</b><br>SCOPE OF LICENSE   | Soak (U) Isınanlar (Boyerler)<br>Sınıf 1: Pasatlı soak,<br>Tip 1: Tak iletken (pasatlı) (Ply B),<br>Tip 2: Soak su ile soğutan,<br>Tip 3: Buhar (kapalı besleme) ile soğutan,<br>Düğü 2: Düşey konumda kullanıldığında (Ply B),<br>Kullanım: Kuru Kuruma, "C" (Kuvvetli Kurutma Etnayesi Kazanları) |

01.12.2017  
VOLKAN DÜLGER  
MAKİNA SEKTÖRÜ MÜDÜRÜ

**ISQ**  
Certification Body

**CERTIFICATE**

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İNTERSİSTEM TEKNİK BELGELENDİRME faaliyetleri çerçevesinde ve uygunlukta olduğu  
ile Sıfır ve Güvenli Yönetim Sistemleri  
is authorized by INTERSYSTEM TECHNICAL BELGELENDİRME Certification and Approval  
Energy Management System under the requirements of

**ISO 50001:2018**

kuvvetlendirme uygulamaları kapsamında ayrıntılı olarak aşağıdaki faaliyetler için  
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MANUFACTURING AND SERVICE OF PLATE HEAT EXCHANGER, ACCUMULATOR TANK, HEAT EXCHANGER TANK, BOILER, HEAT EXCHANGER TANK, ISLAND HEAT EXCHANGER, BUFFER TANK, COMPACT CHILLER, PACKAGED CHILLER, COOLING CIRCUIT, AIRFLOW, BLOWER, COIL HEAT EXCHANGER, DECONDENSER AND SUPERHEATER, BLEND, JUMP, CHIP AND PASTEURIZER

|   |  |
|---|--|
| 01.11.2018<br>Sertifika Tarihi /<br>Certificate Issue Date                                | 01.11.2020<br>Sertifika Son Tazminat Tarihi /<br>Certificate Valid Until |
| 01.11.2018<br>Belgeleme Periyodu, Etki Tarihi /<br>Certification Period / Expiration Date | 01.11.2019<br>Sertifika Geçerlilik Tarihi /<br>Certificate Validity Date |

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**Certificate of Registration**  
**CERTIFICATE OF CONFORMITY**  
TEKNİK FILE-TEKNIK DOSYA UYGUNLUK SERTİFİKASI  
Certificate No: PC-1059

**CE**

to the Manufacturer / sağlayıcı ünite için:

**EKİN ENDÜSTRİYEL ISITMA SOĞUTMA SAN. VE TİC. LTD. ŞTİ.**  
Mak.ın Cad. 285 Sanayi Sitesi 137, Sokak B. 14 Blok No:2/A Ümraniye / İstanbul / TÜRKİYE

Product and designation of type / Ürün ve tanımlama:  
Balance Tanks, Change Turbine / MIT Branded MIT Markalı

BALANCE TANKI/DEĞİŞME KABİ - DK25 (0-25 KW), DK32 (25-43 KW), DK40 (43-61 KW), DK50 (50-72 KW), DK63 (72-100 KW), DK80 (100-130 KW), DK100 (130-163 KW), DK125 (163-200 KW), DK150 (200-250 KW), DK200 (250-300 KW), DK250 (300-500 KW), DK300 (500-600 KW), DK400 (600-800 KW), DK500 (800-1000 KW), DK1000 (1000-16000 KW)

PACKET BALANCE TANKI / PAKET DEĞİŞME KABİ - PK25 (0-25 KW), PK32 (25-43 KW), PK40 (43-61 KW), PK50 (50-72 KW), PK63 (72-100 KW), PK80 (100-130 KW), PK100 (130-163 KW), PK125 (163-200 KW), PK150 (200-250 KW), PK200 (250-300 KW), PK250 (300-500 KW), PK300 (500-600 KW), PK400 (600-800 KW), PK500 (800-1000 KW), PK1000 (1000-16000 KW)

The products is covered by the following EU-Directive / Ürünler aşağıdaki uluslararası düzenlemelerle uyumludur:  
2014/68/EU Pressure Equipment Directive (PED) / Basınç Etkilenen Ürünler

This certificate covers the above product. Does not cover all products produced, covers the above products. / Bu belge yukarıdaki ürünü kapsar, kapsam dışı ürünler için geçerli değildir.

Certificate Date / Sertifika Tarihi:  
Date of Initial Registration / İlk Belgelendirme Tarihi: 11.10.2017 / 28 Kasım 2017  
Date of Last Renewal / Son Tazminat Tarihi: 11.10.2020 / 9 Kasım 2020  
Date of Expiry / Geçerlilik Sonu Tarihi: 11.10.2020 / 28 Kasım 2020

11.10.2017  
Sertifika Tarihi /  
Certificate Issue Date

11.10.2020  
Sertifika Geçerlilik Tarihi /  
Certificate Validity Date

11.10.2020  
Belgeleme Periyodu, Etki Tarihi /  
Certification Period / Expiration Date

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İNTERSİSTEM TEKNİK BELGELENDİRME faaliyetleri çerçevesinde ve uygunlukta olduğu  
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| 11.10.2020<br>Belgeleme Periyodu, Etki Tarihi /<br>Certification Period / Expiration Date | 3 YIL<br>Sertifika Geçerlilik Tarihi /<br>Certificate Validity Date      |

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