

CERTIFICATE

Internal production control plus supervised pressure equipment checks at random intervals - module A2 - according to directive 2014/68/EU

Certificate No.: 0045/202/9280/Z/00374/21/D/000(00)

**Name and address of manufacturer: Ekin Endüstriyel Isıtma Soğutma San. Tic. Ltd. Şti.
Dudullu Organize Sanayi Bölgesi Des Sanayi Sitesi
107 Sk. B14 Blok No: 2
İSTANBUL/TURKEY**

After having examined the preconditions, the manufacturer is entitled to mark the pressure equipment produced within the range of the ambit of the module with the following mark:

CE 0045

Test specification: EN 13445
Test report No.: 0045/202/9280/P/00374/21/D/000(01)
Description of pressure equipment: PLATE HEAT EXHANGER
MIT Series (for Model List See Annex-I)
Place of manufacture: Dudullu Organize Sanayi Bölgesi Des Sanayi Sitesi 107 Sk. B14 Blok No: 2
İSTANBUL/TURKEY
Valid Until: 19.08.2024

This certificate is only valid in connection with the annual report of the supervised pressure equipment checks.

Attachment:
Tech. file and ANNEX-I



Notified Body 0045 for pressure equipment
20/08/2021

Levent ARSLAN

TÜV NORD Systems GmbH & Co. KG, Große Bahnstraße 31, 22525 Hamburg

Contact:
E-Mail **tuv-nord@tuv-turkey.com**
Phone **(0216) 361 29 95**

ANNEX -I

Plate Heat Exchanger Module List						
<i>Model</i>	<i>Design Pressure (Bar)</i>	<i>Volume (Lt)</i>	<i>Fluid Group</i>	<i>Fluid Group</i>	<i>PxV</i>	<i>Table/ Category</i>
MIT-503	10	5,1	Air	Group II	51	Table II Category I
MIT-503	16	5,1	Air	Group II	81,6	Table II Category I
MIT-504	10	5,5	Air	Group II	55	Table II Category I
MIT-504	16	5,5	Air	Group II	88	Table II Category I
MIT-505	10	5,3	Air	Group II	53	Table II Category I
MIT-505	16	5,3	Air	Group II	84,8	Table II Category I
MIT-508	10	23,5	Air	Group II	235	Table II Category II
MIT-508	16	23,5	Air	Group II	376	Table II Category II
MIT-509	10	16	Air	Group II	160	Table II Category I
MIT-509	16	16	Air	Group II	256	Table II Category II
MIT-510	10	60	Air	Group II	600	Table II Category II
MIT-510	16	60	Air	Group II	960	Table II Category II
MIT-513	10	52	Air	Group II	520	Table II Category II
MIT-513	16	52	Air	Group II	832	Table II Category II
MIT-514	10	60	Air	Group II	600	Table II Category II
MIT-514	16	60	Air	Group II	960	Table II Category II
MIT-517	10	60	Air	Group II	600	Table II Category II
MIT-517	16	60	Air	Group II	960	Table II Category II
MIT-520	10	60	Air	Group II	600	Table II Category II
MIT-520	16	60	Air	Group II	960	Table II Category II

ANNEX -I

Plate Heat Exchanger Module List						
<i>Model</i>	<i>Design Pressure (Bar)</i>	<i>Volume (Lt)</i>	<i>Fluid Group</i>	<i>Fluid Group</i>	<i>PxV</i>	<i>Table/ Category</i>
MIT-521	10	60	Air	Group II	600	Table II Category II
MIT-521	16	60	Air	Group II	960	Table II Category II
MIT-522	10	650	Oil	Group I	6500	Table III Category I
MIT-522	16	650	Oil	Group I	10400	Table III Category II
MIT-522	25	650	Oil	Group I	16250	Table III Category II
MIT-523	10	650	Oil	Group I	6500	Table III Category I
MIT-523	16	650	Oil	Group I	10400	Table III Category II
MIT-523	25	650	Oil	Group I	16250	Table III Category II
MIT-535	10	60	Air	Group II	600	Table II Category II
MIT-535	16	60	Air	Group II	960	Table II Category II
MIT-547	10	680	Oil	Group I	6800	Table III Category I
MIT-547	16	680	Oil	Group I	10880	Table III Category II
MIT-547	25	680	Oil	Group I	17000	Table III Category II
MIT-550	6	990	Oil	Group I	5940	Table III Category I
MIT-550	10,2	990	Oil	Group I	10098	Table III Category II
MIT-550	16	990	Oil	Group I	15840	Table III Category II
MIT-562	10	975	Oil	Group I	9750	Table III Category I
MIT-562	16	975	Oil	Group I	15600	Table III Category II
MIT-562	25	975	Oil	Group I	24375	Table III Category II



ANNEX -I

Plate Heat Exchanger Module List						
<i>Model</i>	<i>Design Pressure (Bar)</i>	<i>Volume (Lt)</i>	<i>Fluid Group</i>	<i>Fluid Group</i>	<i>PxV</i>	<i>Table/ Category</i>
MIT-585	10	1050	Oil	Group I	10050	Table III Category I
MIT-585	16	1050	Oil	Group I	16800	Table III Category II
MIT-585	25	1050	Oil	Group I	26250	Table III Category II
MIT-586	10	1050	Oil	Group I	10050	Table III Category I
MIT-586	16	1050	Oil	Group I	16800	Table III Category II
MIT-586	25	1050	Oil	Group I	26250	Table III Category II
MIT-5125	10	2715	Oil	Group I	27150	Table III Category I
MIT-5125	16	2715	Oil	Group I	43440	Table III Category II
MIT-5125	25	2715	Oil	Group I	67875	Table III Category II
MIT-5180	10	4599	Oil	Group I	45990	Table III Category I
MIT-5180	16	4599	Oil	Group I	73584	Table III Category II
MIT-5180	25	4599	Oil	Group I	114975	Table III Category II
MIT-704	10	8,5	Air	Group II	85	Table II Category I
MIT-704	16	8,5	Air	Group II	136	Table II Category I
MIT-707	10	20,5	Air	Group II	205	Table II Category II
MIT-707	16	20,5	Air	Group II	325	Table II Category II
MIT-708	10	21	Air	Group II	210	Table II Category II
MIT-708	16	21	Air	Group II	336	Table II Category II
MIT-709	10	30	Air	Group II	300	Table II Category II
MIT-709	16	30	Air	Group II	480	Table II Category II

ANNEX -I

Plate Heat Exchanger Module List						
<i>Model</i>	<i>Design Pressure (Bar)</i>	<i>Volume (Lt)</i>	<i>Fluid Group</i>	<i>Fluid Group</i>	<i>PxV</i>	<i>Table/ Category</i>
MIT-713	10	32	Air	Group II	320	Table II Category II
MIT-713	16	32	Air	Group II	512	Table II Category II
MIT-714	10	35	Air	Group II	350	Table II Category II
MIT-714	16	35	Air	Group II	560	Table II Category II
MIT-717	10	38	Air	Group II	380	Table II Category II
MIT-717	16	38	Air	Group II	608	Table II Category II
MIT-719	10	42	Air	Group II	420	Table II Category II
MIT-719	16	42	Air	Group II	672	Table II Category II
MIT-720	10	45	Air	Group II	450	Table II Category II
MIT-720	16	45	Air	Group II	720	Table II Category II
MIT-721	10	50	Air	Group II	500	Table II Category II
MIT-721	16	50	Air	Group II	800	Table II Category II
MIT-722	10	60	Air	Group II	600	Table II Category II
MIT-722	16	60	Air	Group II	960	Table II Category II
MIT-725	10	60	Air	Group II	600	Table II Category II
MIT-725	16	60	Air	Group II	960	Table II Category II
MIT-731	10	60	Air	Group II	600	Table II Category II
MIT-731	16	60	Air	Group II	960	Table II Category II
MIT-737	10	60	Air	Group II	600	Table II Category II
MIT-737	16	60	Air	Group II	960	Table II Category II

ANNEX -I

Plate Heat Exchanger Module List						
<i>Model</i>	<i>Design Pressure (Bar)</i>	<i>Volume (Lt)</i>	<i>Fluid Group</i>	<i>Fluid Group</i>	<i>PxV</i>	<i>Table/ Category</i>
MIT-741	10	60	Air	Group II	600	Table II Category II
MIT-741	16	60	Air	Group II	960	Table II Category II
MIT-743	10	60	Air	Group II	600	Table II Category II
MIT-743	16	60	Air	Group II	960	Table II Category II
MIT-747	10	60	Air	Group II	600	Table II Category II
MIT-747	16	60	Air	Group II	960	Table II Category II
MIT-753	10	900	Oil	Group I	9000	Table III Category I
MIT-753	16	900	Oil	Group I	14400	Table III Category II
MIT-753	25	900	Oil	Group I	22500	Table III Category II
MIT-762	10	630	Oil	Group I	6300	Table III Category I
MIT-762	16	630	Oil	Group I	10080	Table III Category II
MIT-762	25	630	Oil	Group I	15750	Table III Category II
MIT-765	10	826	Oil	Group I	8260	Table III Category I
MIT-765	16	826	Oil	Group I	13216	Table III Category II
MIT-765	25	826	Oil	Group I	20650	Table III Category II
MIT-781	10	930	Oil	Group I	9300	Table III Category I
MIT-781	16	930	Oil	Group I	14880	Table III Category II
MIT-781	25	930	Oil	Group I	23250	Table III Category II
MIT-786	10	810	Oil	Group I	8100	Table III Category I
MIT-786	16	810	Oil	Group I	12960	Table III Category II

ANNEX -I

Plate Heat Exchanger Module List						
<i>Model</i>	<i>Design Pressure (Bar)</i>	<i>Volume (Lt)</i>	<i>Fluid Group</i>	<i>Fluid Group</i>	<i>PxV</i>	<i>Table/ Category</i>
MIT-786	25	810	Oil	Group I	20250	Table III Category II
MIT-7100	10	952	Oil	Group I	9520	Table III Category I
MIT-7100	16	952	Oil	Group I	15232	Table III Category II
MIT-7100	25	952	Oil	Group I	23800	Table III Category II
MIT-7121	10	1880	Oil	Group I	18800	Table III Category I
MIT-7121	16	1880	Oil	Group I	30080	Table III Category II
MIT-7121	25	1880	Oil	Group I	47000	Table III Category II
MIT-7123	10	3440	Oil	Group I	34400	Table III Category I
MIT-7123	16	3440	Oil	Group I	55040	Table III Category II
MIT-7123	25	3440	Oil	Group I	86000	Table III Category II
MIT-7130	10	1360	Oil	Group I	13600	Table III Category I
MIT-7130	16	1360	Oil	Group I	21760	Table III Category II
MIT-7130	25	1360	Oil	Group I	34000	Table III Category II
MIT-7131	10	3440	Oil	Group I	34400	Table III Category I
MIT-7131	16	3440	Oil	Group I	55040	Table III Category II
MIT-7131	25	3440	Oil	Group I	86000	Table III Category II
MIT-7180	10	4250	Oil	Group I	42500	Table III Category I
MIT-7180	16	4250	Oil	Group I	68000	Table III Category II
MIT-7180	25	4250	Oil	Group I	106250	Table III Category II

Überwachung der Abnahme A2 C2 **Kontrollbesuche bei QS-Modulen**
Monitoring of final assessment Visit controls at QA-modules

Kontakt: tuv-nord@tuv-turkey.com Contact:		Prüfbericht-Nr.: 0045/202/9280/P/00374/21/D/000(00) Test report No.:	
Erstbesuch: am: 20.08.2021 Initial visit: on:		Auftrags-Nr.: 2114122396 Order No.:	
Hersteller/Inverkehrbringer: Manufacturer/Distributor: Ekin Endüstriyel Isıtma Soğutma San. Tic. Ltd. Şti.		Fertigungsstätte: Manufacturing plant: Ekin Endüstriyel Isıtma Soğutma San. Tic. Ltd. Şti.	
Dudullu Organize Sanayi Bölgesi Des Sanayi Sitesi 107 Sk. B14 Blok No: 2		Dudullu Organize Sanayi Bölgesi Des Sanayi Sitesi 107 Sk. B14 Blok No: 2	
İSTANBUL/TURKEY		İSTANBUL/TURKEY	
PRODUKT: Product:			
<input checked="" type="checkbox"/> Druckbehälter Vessel	<input type="checkbox"/> Überhitzungsgefährdetes Druckgerät Fired or otherwise heated pressure equipment	<input type="checkbox"/> Druckhaltendes Ausrüstungsteil Pressure accessories	
<input type="checkbox"/> Rohrleitung Piping	<input type="checkbox"/> Ausrüstungsteil mit Sicherheitsfunktion Safety accessories	<input type="checkbox"/> Baugruppe Assembly	
TECHNISCHE DATEN : TECHNICAL DATA			
Herstell-Nr. Manufacturing No.			
Min./max. zul. Druck Min./max. allowable pressure	PS [bar]	10 to 25 bar see Annex-I	
Min./max. zul. Temperatur Min./max. allowable temperature	TS [°C]	20 / 150	
Volumen / Nennweite Volume / Nominal size	V/DN [L/--]	5,1 to 4599 See Annex-I	
Kategorie/ Category		I-II	
Fluid		Group II	
Verwendungszweck purpose		Heat exchanger	
RICHTLINIE 2014/68/EU DIRECTIVE			
Prüfgrundlagen: Test specifications:	<input type="checkbox"/> AD 2000	<input type="checkbox"/>	Normen: Standards: <input checked="" type="checkbox"/> EN 13445
Abweichungen: Non conformities:	keine/none		
Bemerkungen /Hinweise: Remarks/Notes			
VORLAUFENDE PRÜFUNGEN PREVIOUS TESTS			
<input type="checkbox"/> EU-Baumusterprüfung EU-Type-examination		Siehe Anlage, See annex	
<input checked="" type="checkbox"/> Konstruktionsprüfung des Herstellers Design calculation of manufacturer			
SCHLUSSPRÜFUNG: FINAL INSPECTION:		<input checked="" type="checkbox"/> Im Beisein der notifizierten Stelle In the presence of the notified Body	<input checked="" type="checkbox"/> anhand von Dokumenten based on documents
		Datum: 20.08.2021 Date:	
DRUCKPRÜFUNG: PROOF TEST:		<input checked="" type="checkbox"/> Im Beisein der notifizierten Stelle In the presence of the notified Body	<input checked="" type="checkbox"/> anhand von Dokumenten based on documents
		Datum: 20.08.2021 Date:	
Herstell-Nr. Manufacturing No.		1 82064	2 82065
Prüfdruck Test pressure	PT [bar]	37	15
Druckmedium Fluid		Water	Water
Haltezeit Holding time	[min]	30	30

Prüfbericht über die

Test report of the



Überwachung der Abnahme
Monitoring of final assessment

A2 C2

Kontrollbesuche bei QS-Modulen
Visit controls at QA-modules

Kontakt: tuv-nord@tuv-turkey.com
Contact:

Prüfbericht-Nr.: 0045/202/9280/P/00374/21/D/000(00)
Test report No.:

Herstell-Nr.: ---
Manufacturing No.:

	MESSUNGEN/UNTERSUCHUNGEN/ERGEBNISSE MEASUREMENTS/EXAMINATIONS/TESTSRESULTS	erfüllt Fulfilled	entfällt Not applicable	Anlage Annex	Bemerkungen Remarks
1.	Werkstoffe Materials: <input checked="" type="checkbox"/> EN-Norm EN-Standard <input type="checkbox"/> PMA <input type="checkbox"/> EAM	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
2.	Rückverfolgbarkeit der Werkstoffe (Zeugnisbelegung) Material traceability	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	s. Liste der Werkstoffe see list of material certificates
3.	Betriebliche Voraussetzungen Prerequisites of manufacturer DIN EN ISO 3834-2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See Annex
4.	Voraussetzung für nicht objektgebundene Prüfung Condition for testing not necessarily on certain objects	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	s. Nachweis gemäß HP 5/2 und HP 5/3 see verification doc. acc. to HP 5/2 and HP 5/3
5.	Eignungsfeststellung Schweißzusätze Records of welding consumables	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6.	Qualifikation des Fügepersonals Qualification of welding personnel DIN EN ISO 9606-1,	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Schweißer Nr. / TNS Zert.-Nr.: Welder No / TNS Cert.-No.: /
7.	Qualifikation der Fügeverfahren Qualification of operating procedures DIN EN ISO 15614-1, DIN EN ISO 15607	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Zert.-Nr. TNS: Certificate No. TNS:
8.	Arbeitsprüfungen gemäß AD 2000 HP 5/2 Production tests according to	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	nicht objektgebunden not on specific object
9.	Nachweise über ZfP-Personal /Stufe 2 Records of NDT personnel/Level <input type="checkbox"/> DIN EN 473, <input type="checkbox"/> DIN EN ISO 9712	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	nicht objektgebunden not on specific objects
10.	Nachweise über zerstörungsfreie Prüfungen Records of non destructive tests.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	nicht objektgebunden not on specific object
11.	Wärmebehandlungsbelege Heat treatment records	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12.	Kalibrierung der Meß- und Prüfeinrichtungen Calibration of measuring and test equipment Verwendetes Manometer <input type="checkbox"/> TNS, <input checked="" type="checkbox"/> Hersteller pressure gauge used Manufacturer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Nationales akkreditiertes Prüflaboratorium National accredited testing laboratory Manometer Nr.: 35589, 37325 Pressure gauge No.:
13.	Visuelle Prüfung / Maßprüfung Visual examination / Dimensional check	<input checked="" type="checkbox"/>			
14.	Kennzeichnung (Typenschild) Marking (name plate)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See Tech. File
15.	Analyse der Gefahren und Risiken (verbindlich) Analysis of Hazards and risks (mandatory)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See Tech. File
16.	Betriebsanleitung hat vorgelegen (verbindlich) Operating instructions were available (mandatory)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See Tech. File
17.	Nachweise über Reparaturen Records of repairs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
18.	Konformitätserklärung / Entwurf (verbindlich) Declaration of Conformity / Draft (mandatory)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See Tech. File

ERGEBNIS
RESULT:

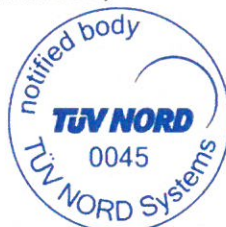
Die vorgenannten Prüfungen erfolgten in Übereinstimmung mit den Anforderungen der RL 2014/68/EU sowie den o.g. Prüfgrundlagen und ergaben keine / folgende Beanstandungen:

The aforementioned tests were carried out in accordance with Directive 2014/68/EU as well as the aforementioned test specifications and did not result in any objections / result in the following objections:

Hinweis:
Note:

Die Prüfergebnisse beziehen sich ausschließlich auf den beschriebenen Prüfgegenstand. Eine auszugsweise Vervielfältigung des Prüfberichtes ohne schriftliche Freigabe der notifizierten Stelle ist nicht zulässig.
All test results apply exclusively to the equipment described above. Duplication of parts of the test report is not permitted without the express written approval of the notified Body.

Anlagen
Attachment:
Tech. file and Annex-I



Notifizierte Stelle 0045 für Druckgeräte
Notified Body 0045 for pressure equipment
20/08/2021

Altug
Oğuzcan ALTUĞ

TÜV NORD Systems GmbH & Co. KG, Große Bahnstraße 31, 22525 Hamburg