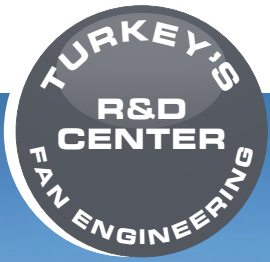


# Tunnel Fans

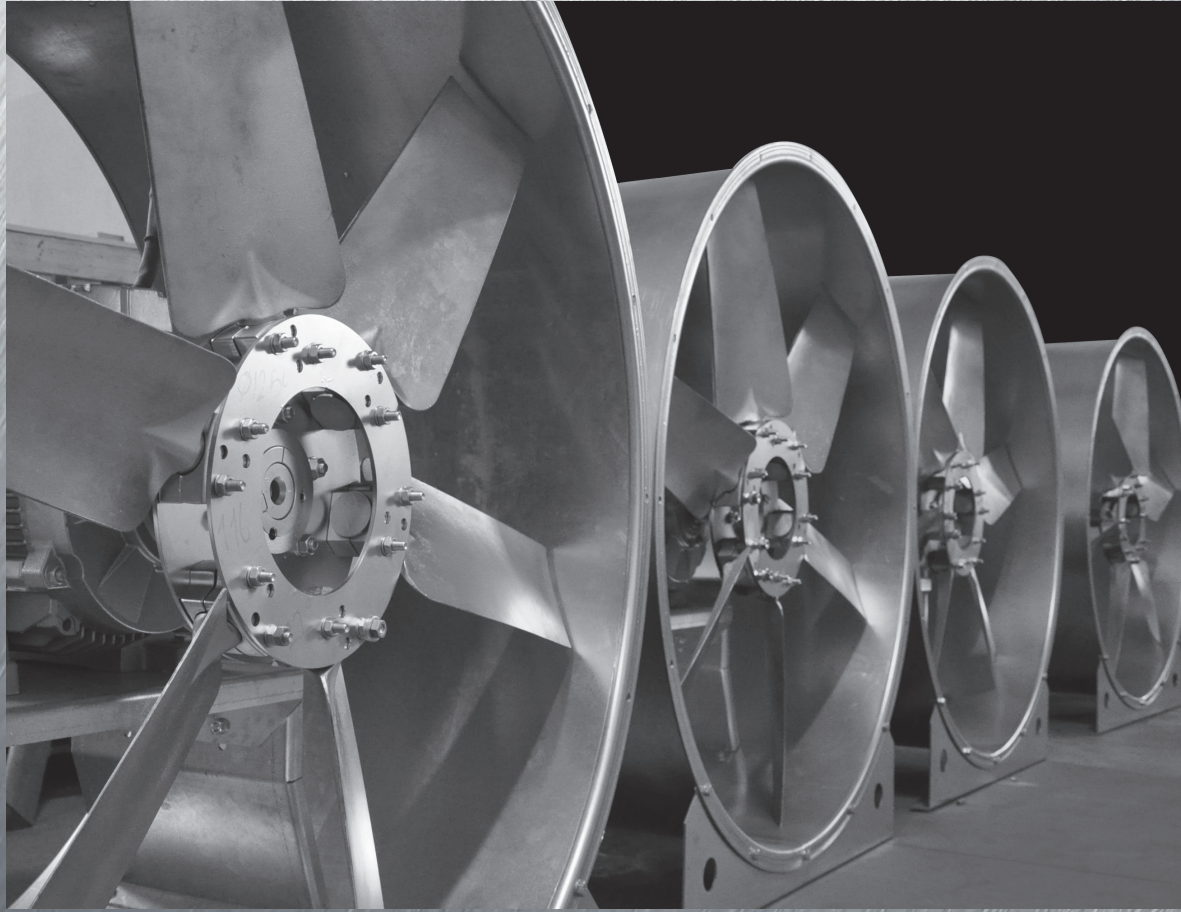


**A**IRONN is a specialized organization producing axial smoke exhaust fans, jet fans, subway and tunnel fans, axial and radial escalator and elevator pressurization fans, and cellular fans with 100% domestic capital. At the AIRONN Fan Engineering Production and R&D Center, there is a Fan Test Laboratory that conforms to AMCA standards and has national and international accreditation. Maintaining its R&D investments systematically, AIRONN, conducts its R&D and CFD works with the most common licensed softwares used internationally, such as ANSYS CFX, CF-DESIGN, ANSYS STATIC STRUCTURE, SOLID WORKS. AIRONN completes all tunnel ventilation calculations according to PIARC, which determines air quality and tunnel safety standards. Fire resistance of axial and radial jet fans for 2 hours to 400 degrees is certified by international certification body, Applus. Cabling and installation costs are reduced by around 60% with the “Smart Jet Fan Automation System” J-Smart, which is optimized with frequency

invertors, and energy saving is maximized during the operation process. The Axial fan with self-silencer that AIRONN R&D unit developed received a “Utility Model” patent. As a reliable solution partner, with its powerful group of engineers, AIRONN also supports all products carrying its brand in the after sale process. After sale service quality is another answer to the question of why AIRONN is preferred for over a hundred prestigious projects. AIRONN Fan Engineering can offer proper solutions for projects with its flexible production capacity and produce specific devices. Many of the product groups offer a facility to deliver from stock or delivery in the shortest time. AIRONN proves the power of Turkish engineering in the international market as well.









# Research & Development

The Aironn R&D staff comprises experienced engineers who maintain their tasks for new products by using licensed programs such as Solidworks, ANSYS Static Structure, ANSYS CFX, and CFDesign. New products designed are turned into prototypes with the help of advanced manufacturing technology and their performances are tested in its own factory by test mechanisms conforming to AMCA standards and approved by TÜV-SÜD.

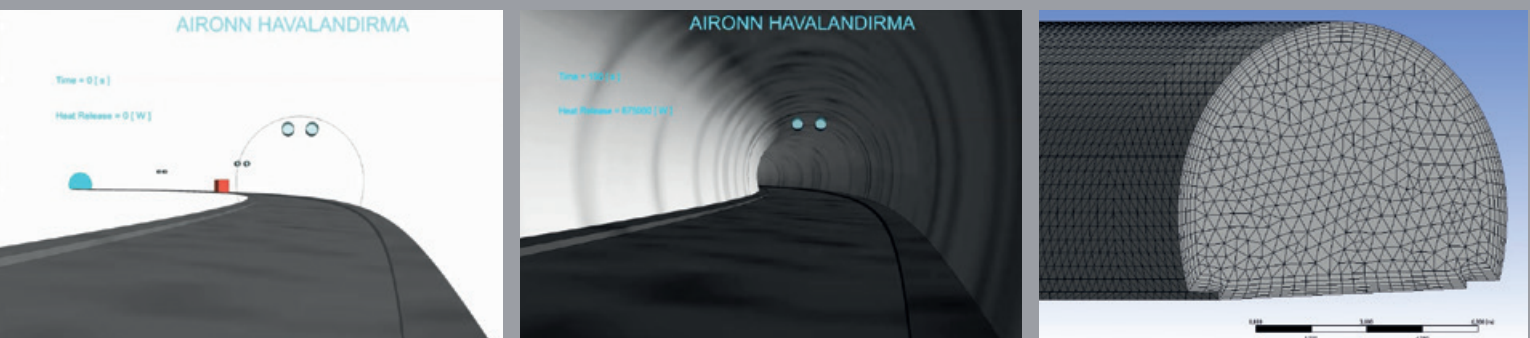
## Structural Analysis

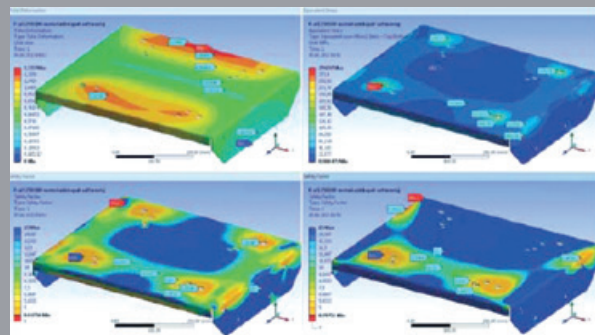
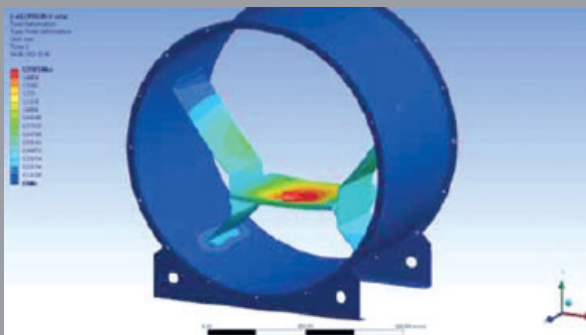
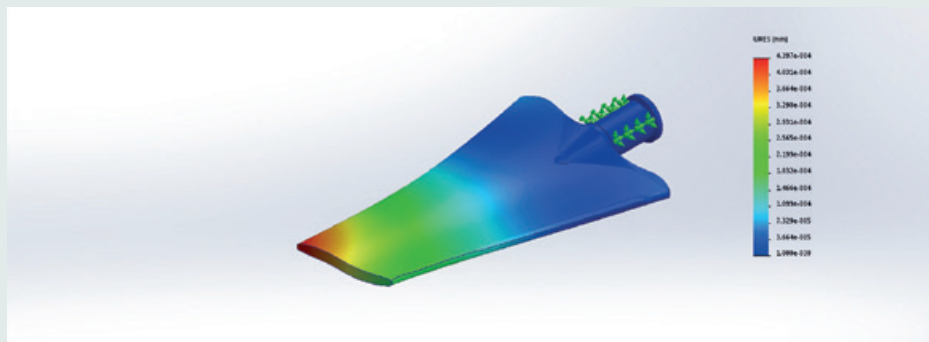
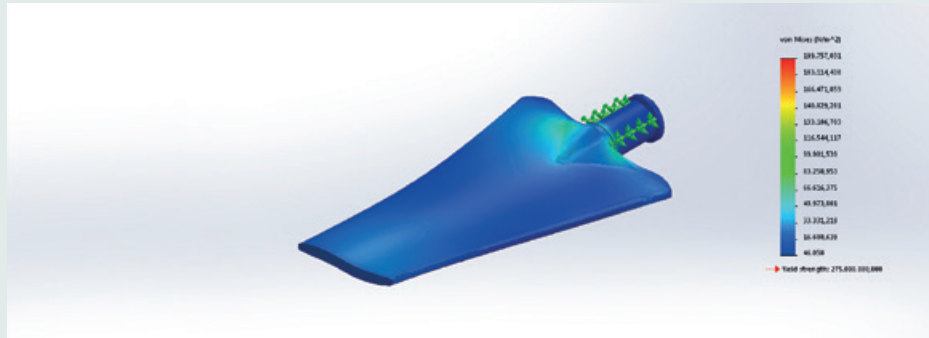
The resistance of fans and fan pieces is calculated with the help of globally accepted structural analysis program ANSYS Static Structure, by using finite elements method. As a result of these analyses, values like the stress occurring on pieces, deformation, vibration spectrum, material fatigue can be seen. In this way, thickness and designs of materials are optimized. The results obtained are verified by means of the test mechanisms in our factory.

## CFD Analysis

Computational Fluid Dynamics (CFD) is a part of fluid dynamics and its numerical methods and algorithms are used for analyzing and solving fluid problems. CFD

is used for blade designs as well as calculating the performance of the fan and system flow examination. By means of CFD analyses, after fan performance analyses are completed and the optimum design is decided, performance tests are conducted with our test mechanisms and our fans are released as a result of their suitability. We also use CFD analyses in system designs to provide information about the accuracy of the system before installation. As a result of the analysis, we can examine many values within the system, such as air speed, temperature values, gas ratio, sight distance. The results obtained are compared with the tests conducted in the field and their accuracy is proven.





# Laboratory and Test

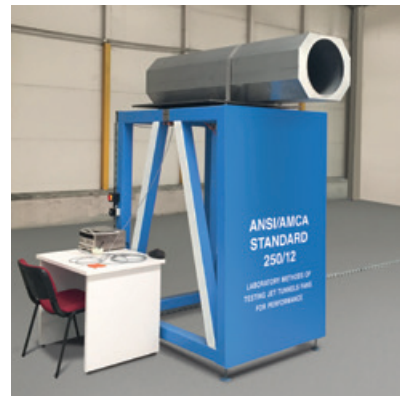
The aim of our company, which adopts the vision of ongoing research and development, is to produce fans to be used worldwide. To do so, test mechanisms conforming to AMCA standards were installed with the efforts of our R&D engineers. These test mechanisms were approved by TÜV-SÜD. With these mechanisms, many parameters of our fans, such as flow, pressure, engine power, efficiency, and driving power, can be measured at different rotation speeds, from 0.55 kW to 160 kW engine power, from 315 mm to 1800 mm diameter. Also, the performance of fans whose design is completed in computer environment can be measured and flawless products can be offered to our customers.

Our fan blades, which are manufactured using the injection method, are tested against discontinuity (pore, slag, residual or gaps) by the radiography method. This method is based on the principle that rays with very short wavelength such as X and

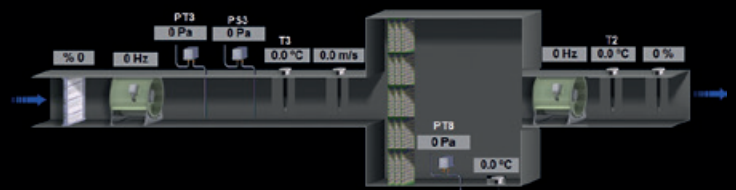
Gama rays pass through the material and form a 2-dimensional image over a film or screen (Radioscopy). Pieces with a negative test result are separated and the continuity of our production quality is ensured.



Fan blades are tested against discontinuity by the radiography method



**Fan Test Laboratory conforming to AMCA Standards • Approved by TÜV SÜD**



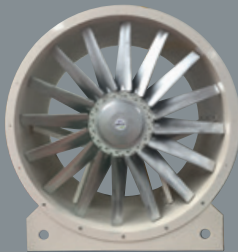


# Fields of Application

**TUNNEL  
SMOKE  
EXHAUST  
FANS**



**SUBWAY  
FANS**



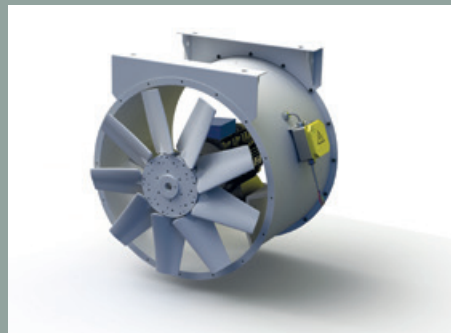
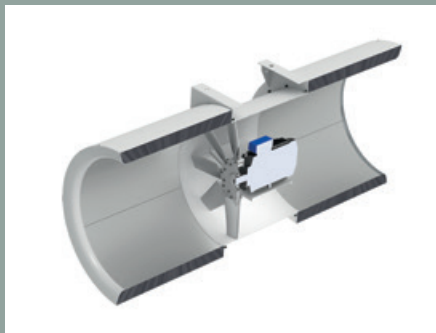
**TUNNEL  
EXCAVATION  
FANS**



# Technical Data and Accessories

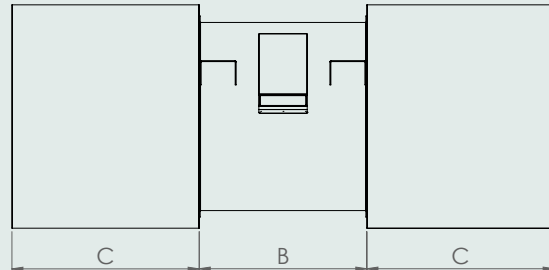
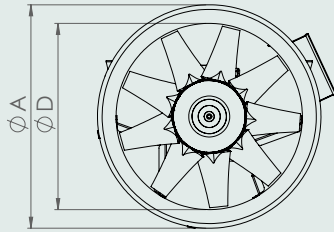
**A**t Aironn Ventilation, we offer you the jet fans we produce with different engine powers, fan diameters, driving powers, different blade designs and accessories in a wide product range. With the power of in-

corporating R&D and manufacturing within our company, we meet all your different requests in a short time.





# Dimensions



	A	B	C	D
560	760	420	560	560
630	830	470	630	630
710	910	500	710	710
800	1000	580	800	800
900	1100	700	900	900
1000	1200	775	1000	1000
1120	1320	775	1120	1120
1250	1450	775	1250	1250
1400	1600	850	1400	1400
1600	1800	900	1600	1600

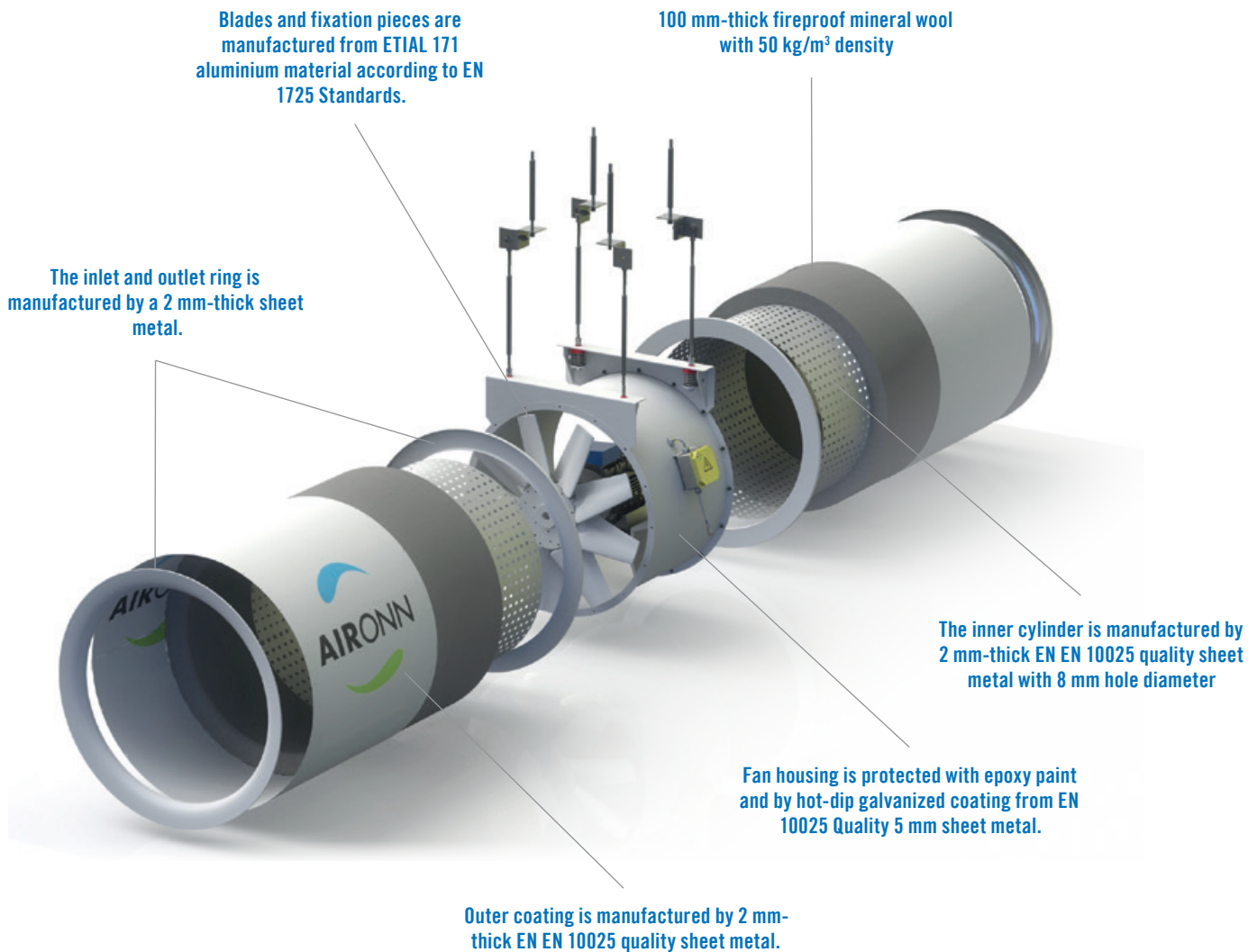
Type	Diameter [mm]	Length [mm]	External Diameter [mm]	Thrust Power [N]	Flow [m³/s]	Air Velocity [m/s]	Power [kW]	Pole
AIR-JF	560	1540	760	225	6,8	27,6	7,5	2
				305	7,9	32,1	11	
AIR-JF	630	1730	830	399	10,2	32,7	15	2
				443	10,7	34,4	18,5	
AIR-JF	710	1920	910	518	13,1	33,0	22	2
				670	14,9	37,6	30	
AIR-JF	800	2180	1000	296	11,1	22,2	7,5	4
				354	12,2	24,2	11	
AIR-JF	900	2500	1100	525	16,7	26,2	15	4
				605	17,9	28,2	18,5	
AIR-JF	1000	2775	1200	749	22,1	28,2	22	4
				950	24,9	31,7	30	
AIR-JF	1120	3015	1320	1275	32,4	32,8	37	4
				1395	33,8	34,4	45	
AIR-JF	1250	3275	1450	1450	38,5	31,4	45	4
				1715	41,9	34,1	55	
				2035	45,6	37,2	75	
AIR-JF	1400	3650	1600	1648	46,0	29,9	45	6
				1802	48,1	31,2	55	
AIR-JF	1600	4100	1800	1748	54,1	26,9	45	6
				2075	59,0	29,3	55	

In tunnels, jet fans operate in 2 cases, daily ventilation and emergency (fire) ventilation. In the case of fire, jet fans help to remove smoke from the source of fire out of the tunnel and the evacuation of people inside during that time.

Our jet fans are equipped with equipment suitable to run at high temperatures and are driven by motors that can run in high temperatures in the same way. Both our fans and the motors used in our fans have F300 and F400 certificates according to

EN-12101-3 standard. (See: Documents)

We offer our fans in range of 400 mm to 1800 mm diameter, from 0.55 kW to 160 kW engine power and up to 3200 Newton by using different blade structures with one way and two way options.





While our fan blades and fixing pieces are produced with injection technology by Etial 171 aluminium material according to EN1725 standard, our rings, used as shaft connection pieces, are manufactured by CK-45 carbon steel. Our parts, such as screws and nuts, have a zinc coating.

As a result of structural analyses made in the computer environment and tests conducted after manufacturing, the wall thickness of fan housing for different diameters

is determined. Wall thickness of inner cylinder, outer cylinder, inlet port and outlet ring products of our silencers is 2 mm. The diameter of holes on the inner cylinder is 8 mm. All sheet metal products on the fans are protected with epoxy paint after coated with hot-dip galvanizing. 100 mm-thick fireproof rockwool, which has 50 kg/m3 density and is resistant to high temperatures, is used in our silencers.

Blades are produced with injection technology by ETIAL 171 aluminium material according to EN 1725 Standard.

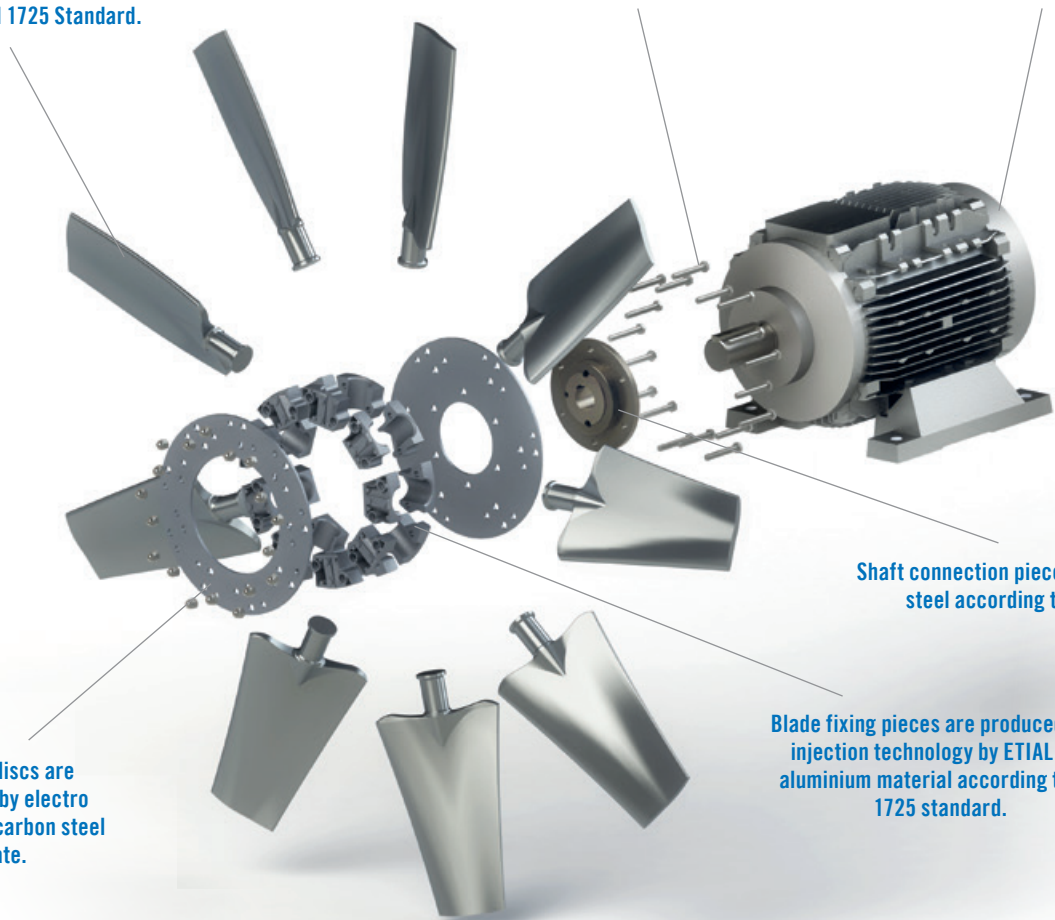
Zinc coated bolt nut

F300 or F400 Smoke Removal Engine conforming to EN 12101-3

Lateral discs are produced by electro galvanized carbon steel plate.

Shaft connection piece by CK-4 carbon steel according to DIN norm

Blade fixing pieces are produced with injection technology by ETIAL 171 aluminium material according to EN 1725 standard.



# Certificates

TÜV CE ATTESTATION OF CONFORMITY

ZERTIFIKAT ◆ CERTIFICATE ◆ 証書 ◆ CERTIFICADO ◆ CERTIFICAT

**Attestation of Conformity**  
No.: **M15 15P10003 0007**

**Holder of Certificate:** AIRONN HAVALANDIRMA VE KLIMA SISTEMLERİ SAN. DIŞ. TIC. LTD. ŞTİ.  
Tatlısu Mah Şenol Güneş Blv Mira Tower Kat:2 D:12 Şenfallı/Ataşehir/İstanbul

**Product:** AXIAL SMOKE EXTRACTION FANS

**Model(s):** AIR-A-U(R)315, AIR-A-U(R)355, AIR-A-U(R)400, AIR-A-U(R)450, AIR-A-U(R)500, AIR-A-U(R)560, AIR-A-U(R)630, AIR-A-U(R)710, AIR-A-U(R)800, AIR-A-U(R)900, AIR-A-U(R)1000, AIR-A-U(R)1120, AIR-A-U(R)1250

**Parameters:**  
Rated Voltage: 380V- 400 V  
Rated Input Power: 0.25-37 KW  
Rated Current : 0.78-115.62 A  
Weight: 23-425 KG

**Product Tested and Inspected according to:**  
2006/42/EC MACHINE SAFETY DIRECTIVE  
2006/95/EC LOW VOLTAGE DIRECTIVE  
EN ISO 12100:2010  
EN 60204-1:2006+A1:2009

This Attestation of Conformity is issued on a voluntary basis according to Machinery Directive 2006/42/EC. It confirms that the listed equipment (not Annex IV equipment) complies with the principal protection requirements of the directive. It refers only to the particular sample and its technical documentationsubmitted for inspection.

**Test Report No. :** TGK-LTMP-12-0043  
**First Certificate No. :** M13 12P10085 0037  
**Issue Date :** 2015-01-02  
**Expiry Date :** 2016-01-02

**CE** After preparation of the necessary technical documentation as well as the conformity declaration the required CE marking can be affixed on the product. Other relevant directives have to be observed.

Page 1 of 1

K03-E06-S02, Issue Date: 07.03.2008, Rev. 02 , Rev. Date: 05.03.2008

TÜV SÜD / Türkiye • Büyükdere Cad. No:102/A  
Şişli İlg. Merkez A Blok Kat:5 34394 Maslak/Şişli - İstanbul • TÜRKİYE

3252-001 FIRE CE CERTIFICATE

LGAI Technological Center S.A.  
Cemalpaşa Bulvarı  
Aproposito de Estradas 18  
14-08100 Salgueiros (Bragança)  
+351 253 601 200  
+351 253 601 200  
www.applus.com

CERTIFICATE

Notified body/M0370

Nr. 0370-CPR-1585

CERTIFICATE OF CONSTANCY OF PERFORMANCE

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product:

**SMOKE AND HEAT CONTROL SYSTEMS. PART 3. SPECIFICATION FOR POWERED SMOKE AND HEAT EXHAUST VENTILATORS: AXIAL JET FAN, AIR-JU-F300<sub>400</sub>**

Produced by:  
**AIRONN HAVALANDIRMA VE KLIMA SISTEMLERİ SANAYİ DIŞ TICARET LTD. ŞTİ.**  
NEOÇIP FAZIL MAH. ALEMDAĞ CAD. No: 906  
ÜMRANİYE-İSTANBUL (TURKEY)

And produced in the manufacturing plant:  
**AIRONN HAVALANDIRMA VE KLIMA SISTEMLERİ SANAYİ DIŞ TICARET LTD. ŞTİ.**  
BARİŞ MAH. 1902. SOKAK No: 3  
TUŞTAK KARŞIŞI GEBZE-KOCAELİ (TURKEY)

This certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performances described in Annex ZA of the standard  
**EN 12101-3:2002, EN 12101-3:2002/AC:2005**

under system 1 are applied and that the product fulfils all the prescribed requirements set out above.

This certificate was first issued on 16<sup>th</sup> August 2013 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly.

Belaterra, 16<sup>th</sup> August 2013

LGAI Technological Center, S.A.  
Jordi Brufau Rodondo  
General Manager

LGAI Technological Center, S.A.  
Xavier Ruiz Peña  
Product Conformity B.U., Managing Director

This document is not valid without its technical annex, whose number coincides with the number of certificate.

PIARC

WORLD ROAD ASSOCIATION  
MONDIALE DE LA ROUTE  
WORLD ROAD ASSOCIATION

Association Mondiale de la Route  
10011 La Defense Cedex - France  
T +33 1 47 96 81 21  
F +33 1 47 96 81 22  
www.piar.org

02/01/2015

Aironn Ventilation Company  
Turquie

Membre collectif / Collective member N° TRC002

Facture acquittée / Paid invoice N° 02-2015-9751-TRC002



Türkiye

**CONFIRMATION CERTIFICATE / UYGUNLUK SERTİFİKASI**

**CONFIRMATION OF AIRONN LABORATORY ACC. TO ANSI/AMCA.210.07 AIRONN LABORATUVARININ ANSİ/AMCA.210.07 A UYGUNLUĞU**

**User "Kullanıcı"** : General Marketing

**Project No. "Proje No"** : TGK 15-B-00716/01

**Company Name Firma** : AIRONN HAVALANDIRMA VE KLİMA SİSTEMLERİ SAN. DİŞ. TİC. LTD.ŞTİ

**Laboratory Place Laboratuvar Yeri** : Karatepe Mah. Cumhuriyet Cad. Mera Sok. No:13 İzmit/Kocaeli / Turkey

**Validity of certificate Sertifika Geçerlilik tarihi** : 09.08.2016S

**Documentes No. Doküman No.** : In the related ANSI/AMCA 210-07 technical file  
ANSI/AMCA 210-07 in ilgili Teknik dosyasında

**Laboratory Capacity** : 315 mm den 1800mm e Çapa, 0,55 kW dan 160 kW motor gücüne kadar

**Related test standart Test standartı** : ANSI/AMCA 210-07: Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating and other Related Standards

Laboratory test program, Laboratory Test Equipment's Certificates, Witness of Simulated Type acceptance Tests, qualification Tests, Test procedures, Test reports and Company corrective curves and other related information have been audited according to ANSI/AMCA 210-07 and other related Standards and Company procedures by TUV SUD Auditor for AIRONN Laboratory which is assembles in Kocaeli / Izmit / Turkey for General Marketing. After the satisfactory results related Certificate has been prepared and approved, to approve, laboratory comply requirements of ANSI/AMCA 210-07 other related Standards requirements

AIRONN Firmasının İzmit / Kocaeli / Turkey kurulumunu yaptığı laboratuvar TUV SUD denetçileri tarafından ANSİ/AMCA 210-07 standardı temel alınarak aşağıdaki şekilde denetlenmiştir.

Laboratuvar test programı ve yazılımı, Laboratuvarlarda kullanılan ekipmanların kalibrasyon sertifikaları, simüle edilmiş testlere nezaret, testlerin kalibrasyonu, test prosedürleri, test raporlarının uygunluğu, doğrulama kurveleri ve diğer gerekli bilgiler ANSİ/AMCA 210-07 standardına uygun olduğuna yönelik TUV SUD Denetçilerinin yapmış olduğu denetim sonuçlarının olumlu olduğu tespit edilmiştir. ANSİ/AMCA 210-07 ve altında bulunduğu diğer standart gerekliliklerini yerine getirme kapasitesini belgeleme talebi üzerine bu sertifika TUV SUD / Türkiye tarafından firmaya sunulmuştur.

**Audit Date "Denetim Tarihi"** : 27.08.2015

**Audit Place "Denetim Yeri"** : İzmit /Kocaeli / Turkey

**Anex "Ekler"** : ANSİ/AMCA 210-07 Technical file

**Audit Result Denetim Sonucu** : SATISFACTORY  
UYGUN

**Place / yer** : İstanbul-TURKEY

**Date / tarih** : 10.08.2015

TUV SUD Turkey  
HAKKI OZLUK

TUV®

Türkiye

**CONFIRMATION CERTIFICATE / UYGUNLUK SERTİFİKASI**

**CONFIRMATION OF AIRONN LABORATORY ACC. TO ANSI/AMCA.250.12 AIRONN LABORATUVARININ ANSİ/AMCA.250.12 A UYGUNLUĞU**

**User "Kullanıcı"** : General Marketing

**Project No. "Proje No"** : TGK 15-B-00716/02

**Company Name Firma** : AIRONN HAVALANDIRMA VE KLİMA SİSTEMLERİ SAN. DİŞ. TİC. LTD.ŞTİ

**Laboratory Place Laboratuvar Yeri** : Karatepe Mah. Cumhuriyet Cad. Mera Sok. No:13 İzmit/Kocaeli / Turkey

**Validity of certificate Sertifika Geçerlilik tarihi** : 09.08.2016S

**Documentes No. Doküman No.** : In the related ANSI/AMCA 250-12 technical file  
ANSI/AMCA 250-12 in ilgili Teknik dosyasında

**Laboratory Capacity** : 10 Newtondan 3200 Newtona kadar

**Related test standart Test standartı** : ANSI/AMCA 250-12: Laboratory Methods of Testing Jet Tunnel Fans for Performance and other Related Standards

Laboratory test program, Laboratory Test Equipment's Certificates, Witness of Simulated Type acceptance Tests, qualification Tests, Test procedures, Test reports and Company corrective curves and other related information have been audited according to ANSI/AMCA 250-12 and other related Standards and Company procedures by TUV SUD Auditor for AIRONN Laboratory which is assembles in Kocaeli / Izmit / Turkey for General Marketing. After the satisfactory results related Certificate has been prepared and approved, to approve, laboratory comply requirements of ANSI/AMCA 250-12 other related Standards requirements

AIRONN Firmasının İzmit / Kocaeli / Turkey kurulumunu yaptığı laboratuvar TUV SUD denetçileri tarafından ANSİ/AMCA 250-12 standardı temel alınarak aşağıdaki şekilde denetlenmiştir.

Laboratuvar test programı ve yazılımı, Laboratuvarlarda kullanılan ekipmanların kalibrasyon sertifikaları, simüle edilmiş testlere nezaret, testlerin kalibrasyonu, test prosedürleri, test raporlarının uygunluğu, doğrulama kurveleri ve diğer gerekli bilgiler ANSİ/AMCA 250-12 standardına uygun olduğuna yönelik TUV SUD Denetçilerinin yapmış olduğu denetim sonuçlarının olumlu olduğu tespit edilmiştir. ANSİ/AMCA 250-12 ve altında bulunduğu diğer standart gerekliliklerini yerine getirme kapasitesini belgeleme talebi üzerine bu sertifika TUV SUD / Türkiye tarafından firmaya sunulmuştur.

**Audit Date "Denetim Tarihi"** : 27.07.2015

**Audit Place "Denetim Yeri"** : İzmit /Kocaeli / Turkey

**Anex "Ekler"** : ANSİ/AMCA 250-12 Technical file

**Audit Result Denetim Sonucu** : SATISFACTORY  
UYGUN

**Place / yer** : İstanbul-TURKEY

**Date / tarih** : 10.08.2015

TUV SUD Turkey  
HAKKI OZLUK

TUV®

**EFFECTIS ERA AVRASYA**  
Fire Test Laboratory

**CLASSIFICATION REPORT OF  
POWERED SMOKE and HEAT EXHAUST TUNNEL FAN  
"AIR-JU-1250/75/1500d/d"**

**EEA-17-019**

On behalf of  
**AIRONN İKLİMLENDİRME SİSTEMLERİ SAN. DİŞ. TİC. LTD. ŞTİ.**  
Tatlısu Mah. Şenol Güneş Bulvarı Mira Tower Kat: 3 D: 16  
Şerifalli / Ataşehir / İSTANBUL / TURKEY

This classification report consists of 3 pages and may only be used or reproduced in its entirety.

Address: 3038 TAHSAD Organize San. Böl. 1. CD. 1. Yıl No: 1 Şekerciler - Çayırova Kocaeli, TÜRKİYE  
Tel: 0382 6581442 Fax: 0382 6581669 E-mail: turay@effectis.com  
Web: www.effectis.com

FIRE RESISTANCE CLASSIFICATION REPORT Nr. EEA-17-019 | Page 2

**1. INTRODUCTION**

This classification report defines the classification assigned to single compartment powered smoke and heat exhaust tunnel fan "AIR-JU-1250/75/1500d/d" in accordance with the procedures given in EN 13501-4:2016.

**2. DETAILS OF ELEMENT**

**2.1. Type of function:**

The product, powered smoke and heat exhaust tunnel fan - "AIR-JU-1250/75/1500d/d" is defined as a "component of a smoke control system". Its function, alongside other components of the system is to control the movement of smoke and heat.

**2.2. Description:**

The product powered smoke and heat exhaust tunnel fan - "AIR-JU-1250/75/1500d/d" is fully described in the test report in support of this classification listed in Clause 3 of this classification report.

**3. REPORTS AND RESULTS IN SUPPORT OF CLASSIFICATION**

The following test report is presented in support of this classification:

Name of laboratory	Name of sponsor	Unique ref. no.	F (min.)	Temp. (°C)
EFFECTIS ERA AVRASYA TEST VE BELGELENDİRME A.Ş.	AIRONN İKLİMLENDİRME SİSTEMLERİ SAN. DİŞ. TİC. LTD. ŞTİ.	RFRS/2027	124	800°C

**4. CLASSIFICATION**

**4.1. Reference of classification**

This classification has been carried out in accordance with EN 13501-4:2016.

**4.2. Classification**

The product, powered smoke and heat exhaust tunnel fan - "AIR-JU-1250/75/1500d/d" has been classified as:

<b>Fire Resistance Classification</b>
<b>F<sub>300</sub> 60</b>
<b>Unclassified: 300 °C, 120 minutes</b>

YERLİ MALİ BELGESİ	
Belgenin Veriliş Tarihi : 18.09.2015 Belgenin Geçerlilik Tarihi : 18.09.2016 Belge No : 201510854499	
Üstüncü Ürüne : AIRONN HAVALANDIRMA VE KLİMA SİSTEMLERİ SANAYİ DİŞ TİCARET LİMİTED ŞİRKETİ	
İşyeri Adresi : Karatepe Mah. Cumhuriyet Cad. Mera Sok. No:13 KARTEPE/KOCAELİ	
Üstüncünün Vergi Kimlik No : 010044943 TC Kimlik No : Merkezi Sicil Kayıt Sistemi No :	
Telefon : 216-5945690 Faks : 216-5945717 e-posta: muhasebe@aironn.com.tr web adresi: www.aironn.com.tr	
Ticaret Sicil No : 24623 Oda/Boosa Sicil No : 3934	
Ürün Adı : TUNEL FAN	
Ürün Kodu (PRODCOM/GTIP) : 28.25.20.30.00-Eksenel vantilatörler (kendinden elektrik motorlu, gücü <= 125 W olan, masa, zemim, duvar, pencere, tavan veya çan vantilatörleri hariç) /	
Teknik Özellikleri : ürünün özelliklerine göre varsa;	
Marka adı : AIRONN	Modeli :
Seri numarası : AIR-TR	Cinsi :
Kapasite Raporunun Tarihi : 13.05.2015 No : 10783	Geçerlilik Süresi : 13.05.2017
Sanayi Sicil Belgesinin Tarihi : 14.04.2015 No : 673614	
Yerli Katkı Oranı (Taahhütnamede belirtilen oran yazılacak) : % 85,75	
Ürünün Teknolojik Düzeyi (düşük/orta-düşük/orta-yüksek/yüksek/Eurostat) : orta-yüksek	
Gıda İşletme kayıt veya oran belgesinin Tarihi : No : Geçerlilik Süresi :	
Çiftçi Kayıt Sistemi Belgesi veya Gıda, Tarım ve Hayvancılık Bakanlığının ilgili Kayıt Belgesi (Ortallık Kayıt Sistemi ve benzeri) Tarihi : No : Geçerlilik Süresi :	
Müstahsil makbuzu veya faturanın Tarihi : Seri No :	
Maden Ruhsatının Adı : Tarihi : Cinsi : Grubu ve Numarası :	
Diğer bilgi ve belgeler (Kullanılan hammaddenin menşei vb) :	
İşbu belge Bilim, Sanayi ve Teknoloji Bakanlığının 13/09/2014 tarih ve 29118 sayılı Resmî Gazetede yayımlanan "Yerli Mali Tebliği (SGM 2014/35)" ne istinaden ve TOBB tarafından hazırlanan "Yerli Mali Belgesinin Düzenlenmesi Uygulanma Esaslarına" göre 18.09.2015 tarihinde düzenlenmiştir. Belgenin geçerlilik süresi veriliş tarihinden itibaren bir yıl geçerlidir.	
Düzenleyen Oda/Borsa KOCAELİ SANAYİ ODASI	
 Memet B. TURABI Genel Sekreter	

ISO 9001:2008

SERTİFİKA	
ISO 9001:2008 Kalite Yönetim Sistemi	
AIRONN HAVALANDIRMA VE KLİMA SİSTEMLERİ SANAYİ DİŞ TİCARET LTD.ŞTİ.	
Karatepe Mah. Mera Sokak No:13 Kartepe, KOCAELİ	
Yukarıda belirtilen kuruluşun, NAVİGA Belgelendirme Prosedürüne göre Standardın şartlarını aşağıdaki kapsamda karşıladığı kanıtlanmıştır.	
Kapsam	
İKLİMLENDİRME CİHAZLARININ İMALATI	
Rapor No: 15QOC317	Sertifika Bitiş Tarihi: 21.06.2018
Sertifika Kayıt No:1540504	İlk Belgelendirme Tarihi: 22.06.2015
Belgelendirme NAVİGA Teknik ve Belgelendirme Prosedürlerine uygun olarak uygulanmış olup gözetim denetimine(11.06.2016) kadar geçerlidir.	
Belgelendirme Kuruluşu NAVİGA ULUSLARARASI BELGELENDİRME VE EĞİTİM HİZ. LTD. ŞTİ.	
	 İstanbul, 22.06.2015
İşbu sertifika, NAVİGA'nın belgelendirme prosedür ve talimatlarına, yukarıdaki standardın gerekliliklerine uyulduğu sürece, yukarıdaki adres ve kapsam dahilinde geçerlidir.	
NAVİGA ULUSLARARASI BELGELENDİRME VE EĞİTİM HİZMETLERİ LTD. ŞTİ. Ali Rıza Gürcan cad. Metropal Center Kat: 11 No 46 Merter 34015 / İSTANBUL Tel: 0212 482 96 56 Fax: 0212 482 94 24 www.navigatd.com - info@navigatd.com	

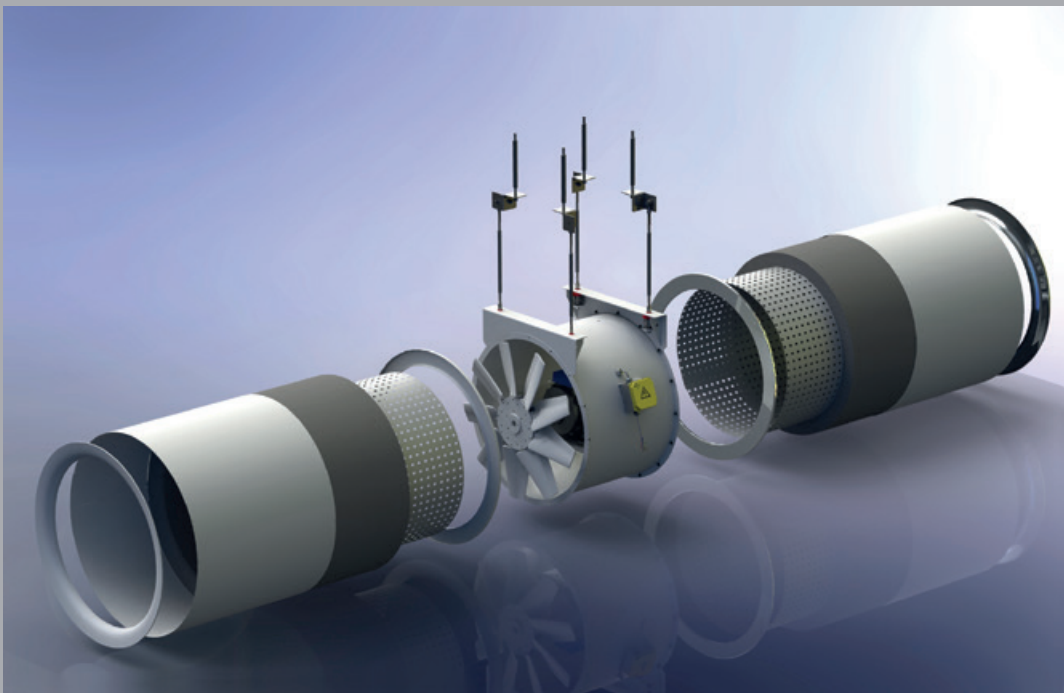
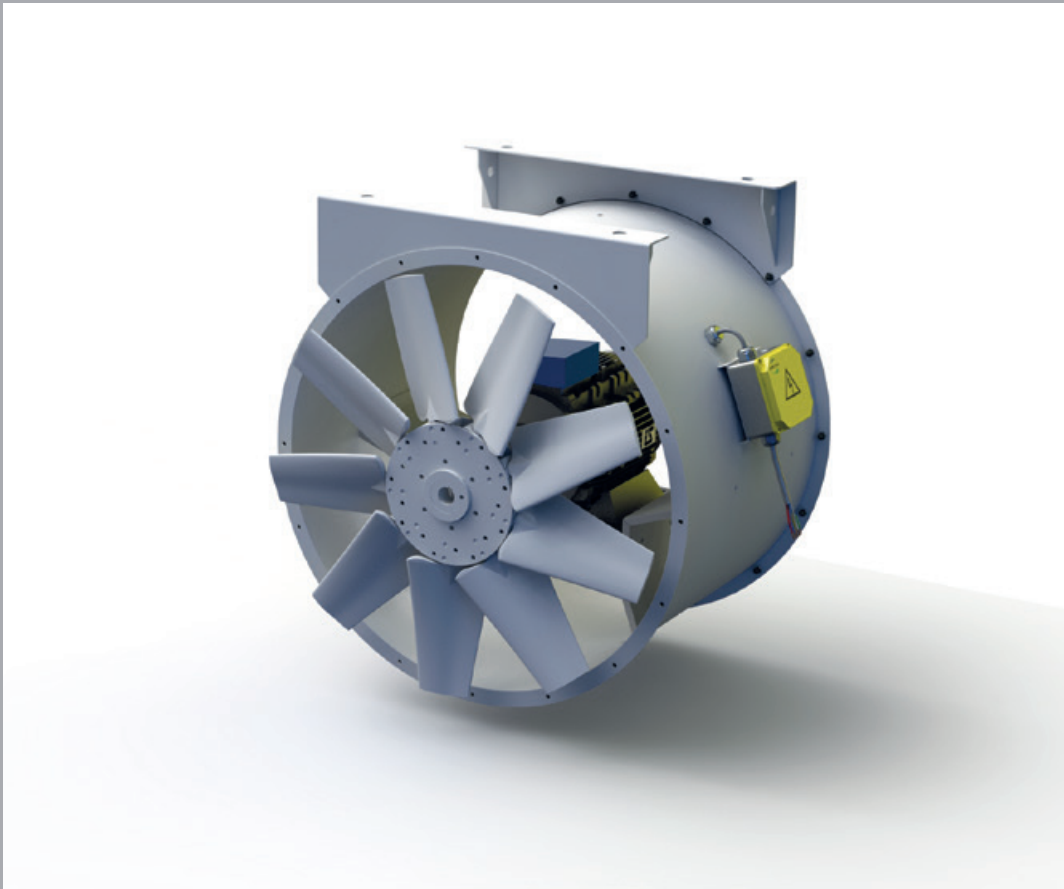
ISO 10002:2004

SERTİFİKA	
ISO 10002:2004 Kalite Yönetimi - Müşteri Memnuniyeti	
AIRONN HAVALANDIRMA VE KLİMA SİSTEMLERİ SANAYİ DİŞ TİCARET LTD.ŞTİ.	
Karatepe Mah. Mera Sokak No:13 Kartepe, KOCAELİ	
Yukarıda belirtilen kuruluşun, NAVİGA Belgelendirme Prosedürüne göre Standardın şartlarını aşağıdaki kapsamda karşıladığı kanıtlanmıştır.	
Kapsam	
İKLİMLENDİRME CİHAZLARININ İMALATI	
Rapor No: 15QOC317	Sertifika Bitiş Tarihi: 21.06.2018
Sertifika Kayıt No:1547506	İlk Belgelendirme Tarihi: 22.06.2015
Belgelendirme NAVİGA Teknik ve Belgelendirme Prosedürlerine uygun olarak uygulanmış olup gözetim denetimine(11.06.2016) kadar geçerlidir.	
Belgelendirme Kuruluşu NAVİGA ULUSLARARASI BELGELENDİRME VE EĞİTİM HİZ. LTD. ŞTİ.	
	 İstanbul, 22.06.2015
İşbu sertifika, NAVİGA'nın belgelendirme prosedür ve talimatlarına, yukarıdaki standardın gerekliliklerine uyulduğu sürece, yukarıdaki adres ve kapsam dahilinde geçerlidir.	
NAVİGA ULUSLARARASI BELGELENDİRME VE EĞİTİM HİZMETLERİ LTD. ŞTİ. Ali Rıza Gürcan cad. Metropal Center Kat: 11 No 46 Merter 34015 / İSTANBUL Tel: 0212 482 96 56 Fax: 0212 482 94 24 www.navigatd.com - info@navigatd.com	

OHSAS 18001:2007

SERTİFİKA	
OHSAS 18001:2007 İş Sağlığı ve Güvenliği Yönetim Sistemi	
AIRONN HAVALANDIRMA VE KLİMA SİSTEMLERİ SANAYİ DİŞ TİCARET LTD.ŞTİ.	
Karatepe Mah. Mera Sokak No:13 Kartepe, KOCAELİ	
Yukarıda belirtilen kuruluşun, NAVİGA Belgelendirme Prosedürüne göre Standardın şartlarını aşağıdaki kapsamda karşıladığı kanıtlanmıştır.	
Kapsam	
İKLİMLENDİRME CİHAZLARININ İMALATI	
Rapor No: 15QOC317	Sertifika Bitiş Tarihi: 21.06.2018
Sertifika Kayıt No:1544505	İlk Belgelendirme Tarihi: 22.06.2015
Belgelendirme NAVİGA Teknik ve Belgelendirme Prosedürlerine uygun olarak uygulanmış olup gözetim denetimine(11.06.2016) kadar geçerlidir.	
Belgelendirme Kuruluşu NAVİGA ULUSLARARASI BELGELENDİRME VE EĞİTİM HİZ. LTD. ŞTİ.	
	 İstanbul, 22.06.2015
İşbu sertifika, NAVİGA'nın belgelendirme prosedür ve talimatlarına, yukarıdaki standardın gerekliliklerine uyulduğu sürece, yukarıdaki adres ve kapsam dahilinde geçerlidir.	
NAVİGA ULUSLARARASI BELGELENDİRME VE EĞİTİM HİZMETLERİ LTD. ŞTİ. Ali Rıza Gürcan cad. Metropal Center Kat: 11 No 46 Merter 34015 / İSTANBUL Tel: 0212 482 96 56 Fax: 0212 482 94 24 www.navigatd.com - info@navigatd.com	







“FAN ENGINEERING”

AIRONN HAVALANDIRMA VE KLİMA SİSTEMLERİ SAN. DIŞ TİC. LTD. ŞTİ.

Tatlısu Mah. Şenol Güneş Bulvarı Mira Tower K: 3 D: 16 Şerifali, Ataşehir - İstanbul / Turkey

Phone: +90 216 594 56 96 Fax: +90 216 594 57 17 E-mail: info@aironn.com.tr

[www.aironn.com.tr](http://www.aironn.com.tr)