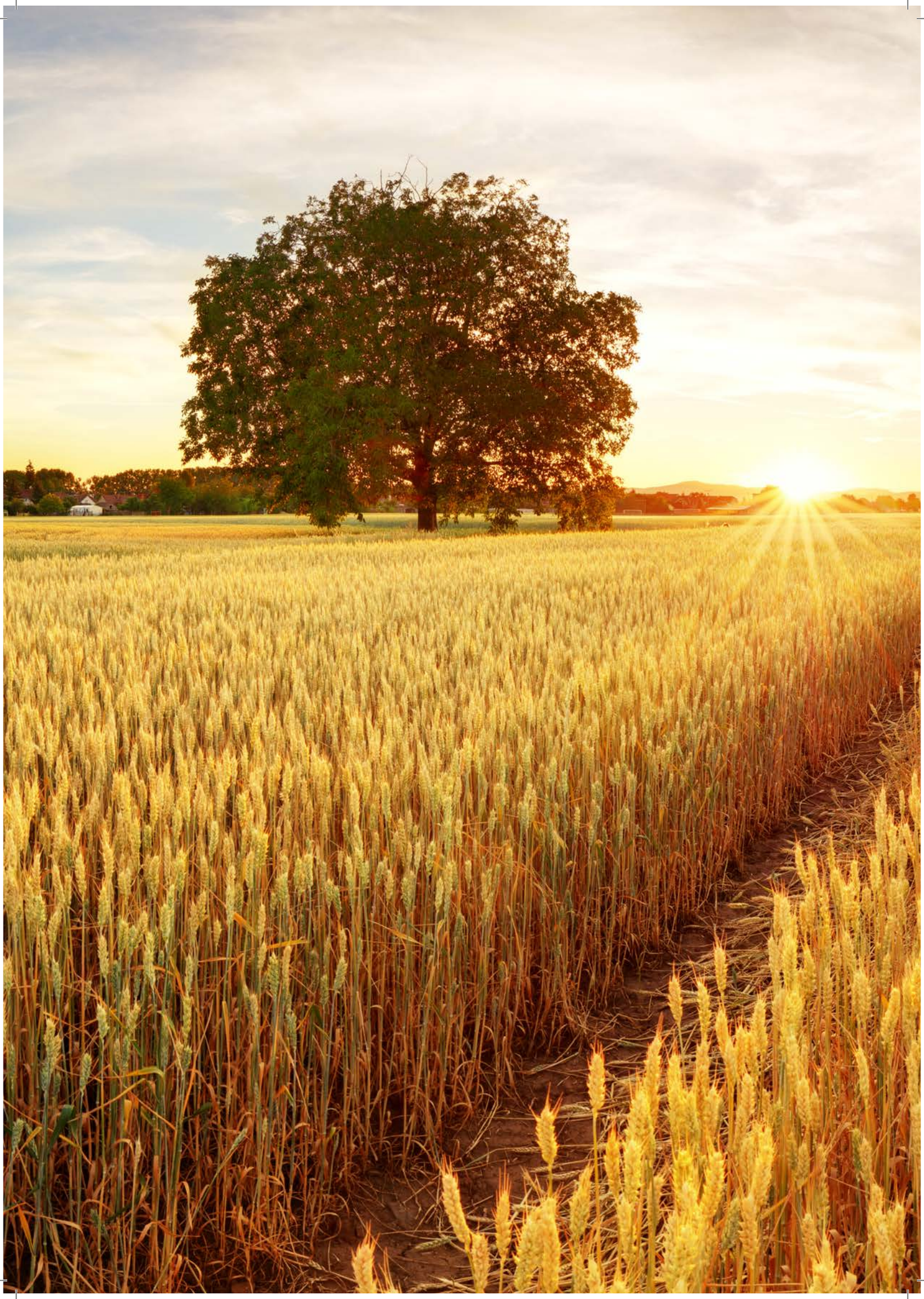
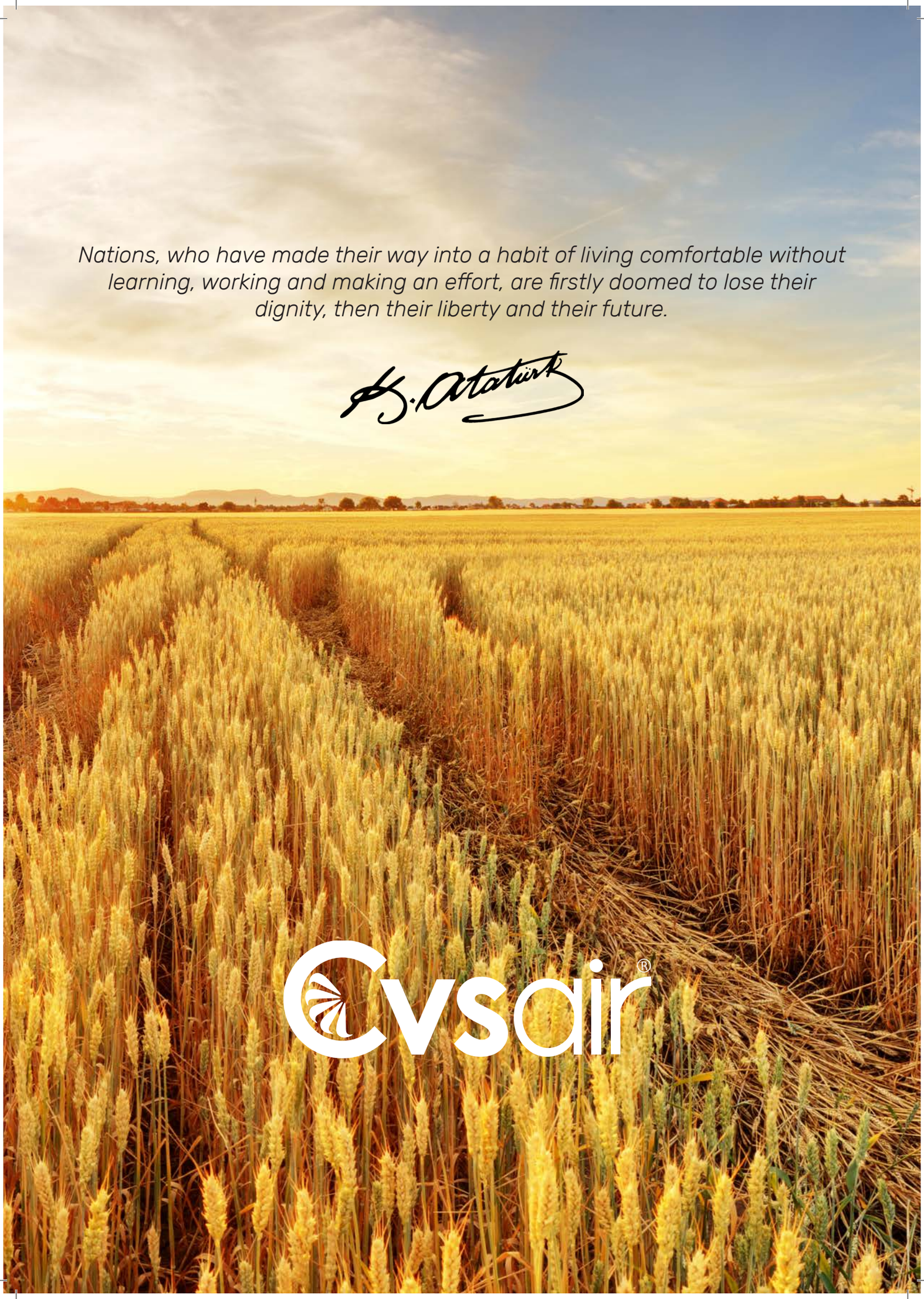
Cvsair®

new air bender

Türkiye

MEMBER




Nations, who have made their way into a habit of living comfortable without learning, working and making an effort, are firstly doomed to lose their dignity, then their liberty and their future.
M. Atatürk
Cvsair®

CONTENTS

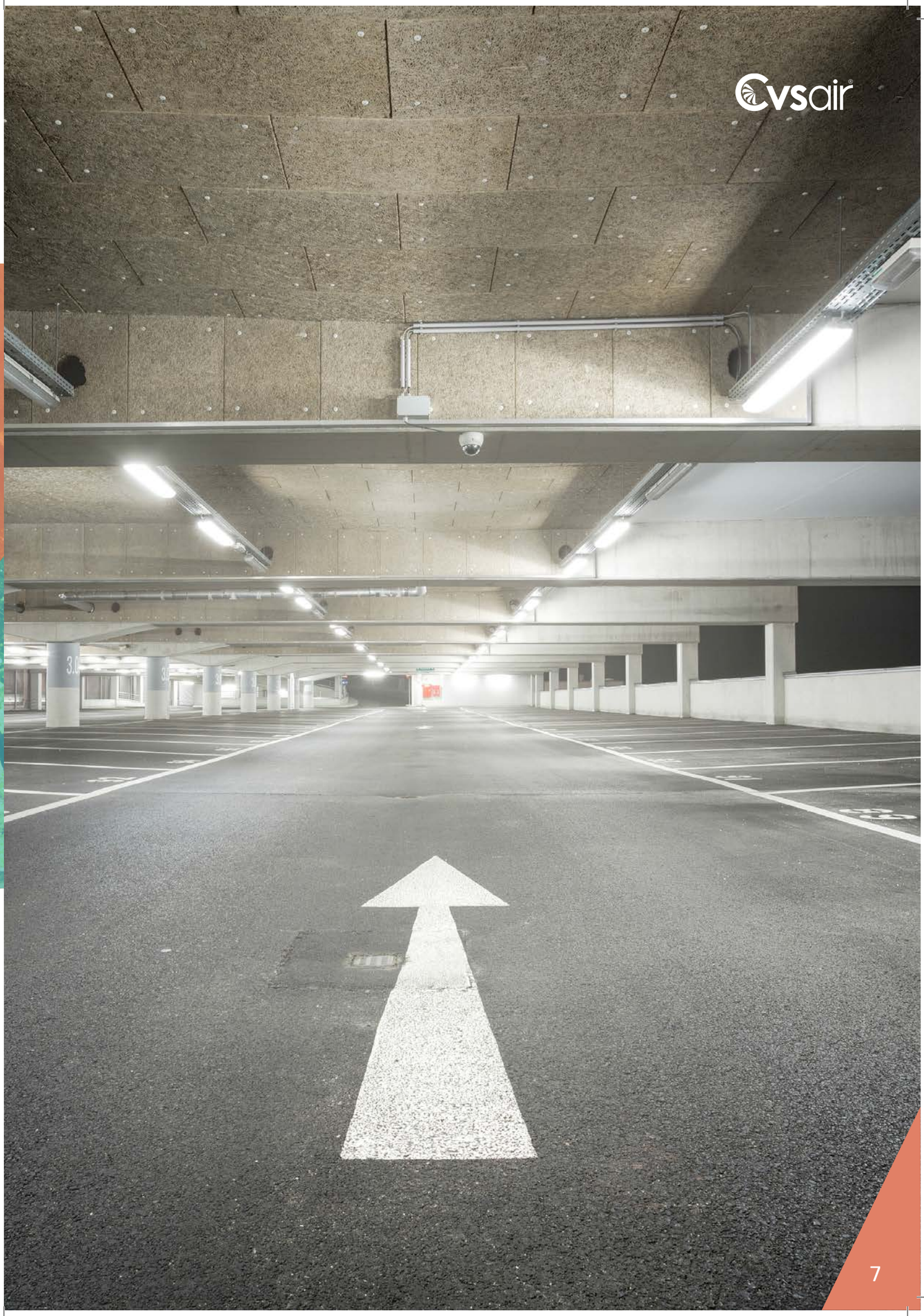
RADIAL FANS

CABINET FANS

UNITS

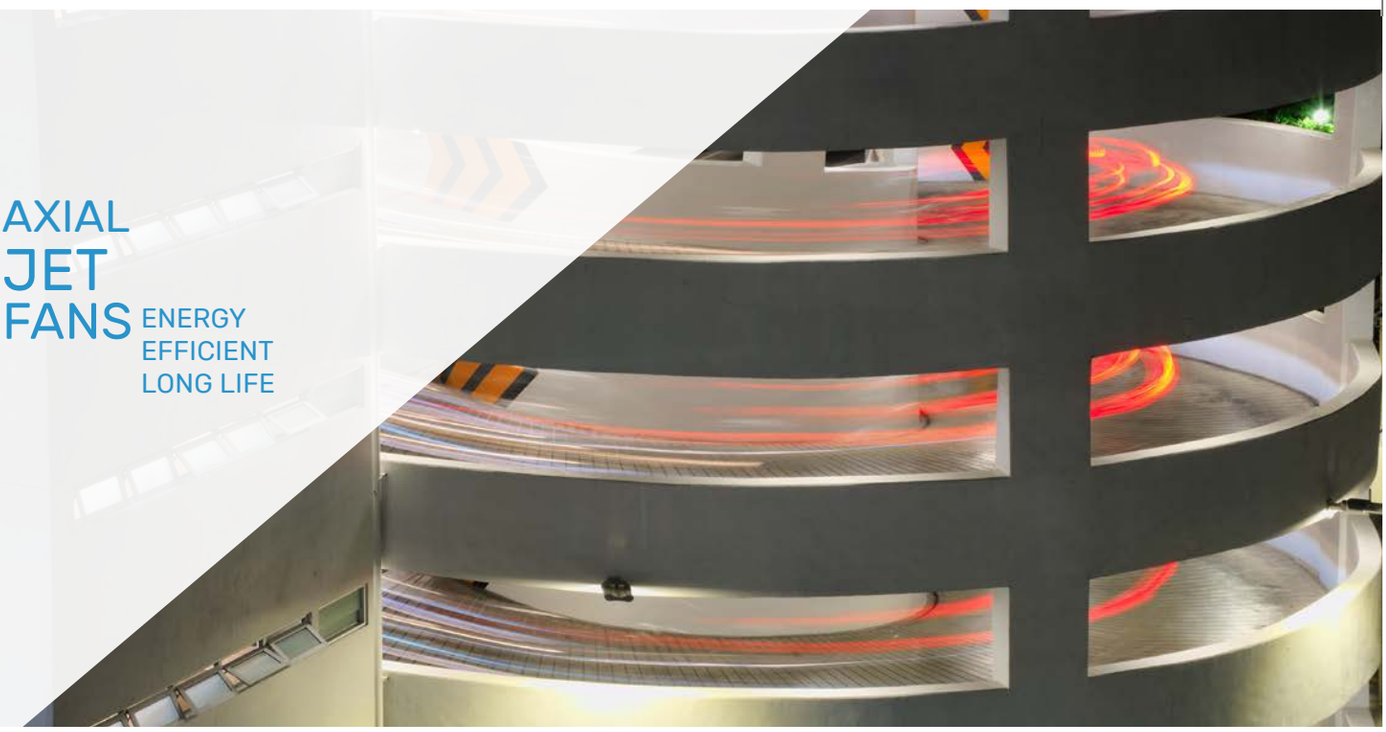
www.cvsair.com.tr

Axial Fans



AXIAL JET FANS

ENERGY EFFICIENT LONG LIFE

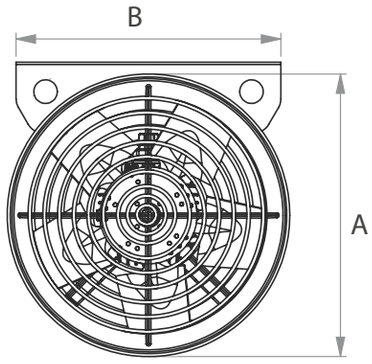


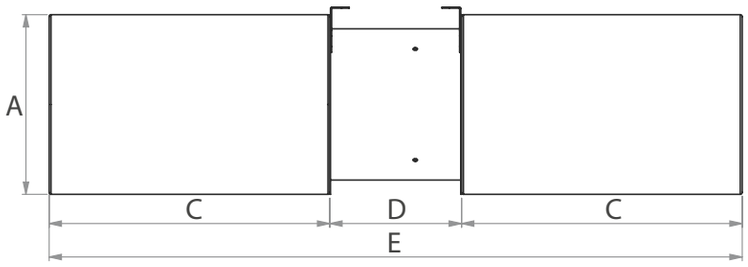
PRODUCT FEATURES

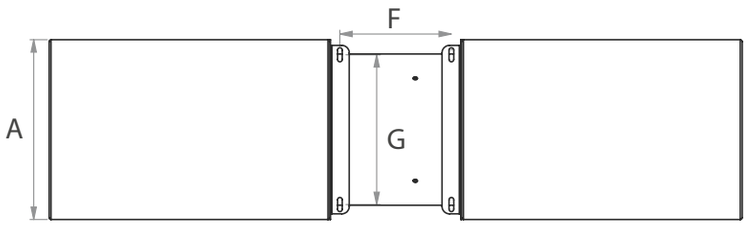
- Günlük havalandırma ve yangın anı için çift devirli motor Double speed motor for daily ventilation and in case of fire
- Galvaniz sac üzeri elektrostatik fırın boyalı gövde Galvanised sheet metal with electrostatic oven drying case
- Koruma teli ve ayarlanabilir yönlendirici (deflektör) Protection wire and adjustable router (deflector)
- Kendinden susturuculu fan gövdesi Self-silencer fan case
- H yalıtım sınıfı, IP55 korumalı yüksek verimli IE2 motorlar H insulation class, high efficiency IE2 motors with IP55 protection class
- EN 12101-3 sertifikalı EN 12101-3 certificated
- Aksiyal kanat yapılı olarak üretilen Jet fanlar, çift devirli olarak çalışabilecek özellikte 1.440 / 2.880 dev/dk. Hızın da motora sahip, EN 12101-3'e göre F300 ve F400 dayanımlı yapıda imal edilir Jet fans with axial wing can be manufactured as a capable of operation at double speed on 1.440/2.880 rpm according to EN12101-3 standarts in F300 and F400 fire-resistant structure
- Fanlar, gövdenin her iki tarafında sesi yok etmek amacıyla susturuculu olarak imal ediliyor The fans are manufactured with sound-attenuators on both outlets of the body to eliminate sound
- Jet fanların aerofil kanat yapısına sahip olmaları, düşük ses seviyelerinde ve maksimum itme gücü ile çalışma imkânı sağlar. 315, 355, 400, 500 mm çaplarında 40, 50, 80, 106 N itme kuvvetlerinde üretilir Jet fans have an aerofoil wing structure that allows them to work with low noise levels and maximum thrust. Jet Fans manufactured in 315, 355, 400, 500 mmdiameter range and 40, 50, 80, 106 N thrust
- Jet fanların hava emiş tarafında bulunan koruma teli, hava atış tarafında ise yönlendirici kanatlar (deflektörler) bulunur Jet fans have protection wire on the air suction side and adjustable deflector on the air blow side
- Çift yönlü çalışması istenen jet fanlar ise her iki uç kısmında da yönlendirici kanatlar (deflektörler) ile imal edilir The jet fans which required to operate in reversible air flow are manufactured with deflectors at both outlets
- 60 Hz seçeneği mevcuttur 60 Hz option is available

TECHNICS

	AJ400-40	AJ400-50	AJ400-80	AJ400-100	AJ-TR-400
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (HZ)	50	50	50	50	50
POWER (KW)	0,17/0,75	0,33/1,3	0,5/2,0	0,9/3,6	0,5/2,0
CURRENT (A)	0,5/1,7	0,9/2,8	1,2/4,2	2/7,3	1,2/4,2
THRUST (N)	10/40	13/50	20/80	27/106	16/62
SPEED (rpm)	1400/2790	1425/2680	1415/2835	1440/2870	1415/2835
AIR FLOW (M^3/H)	2394/4788	2700/5400	5220/10440	7560/15120	4630/9260
SOUND PRESSURE LEVEL (dB)3m	48/63	51/67	56/72	53/68	52/67







DIMENSIONS

MODEL	ØA	B	C	D	E	F	G
AJ-400/40	500	450	750	350	1850	298	400
AJ-400/50	500	450	750	350	1850	298	400
AJ-400/80	500	450	750	350	1850	298	400
AJ-400/100	500	450	750	350	1850	298	400
AJ-TR-400	500	450	750	350	1850	298	400

RADIAL JET FANS

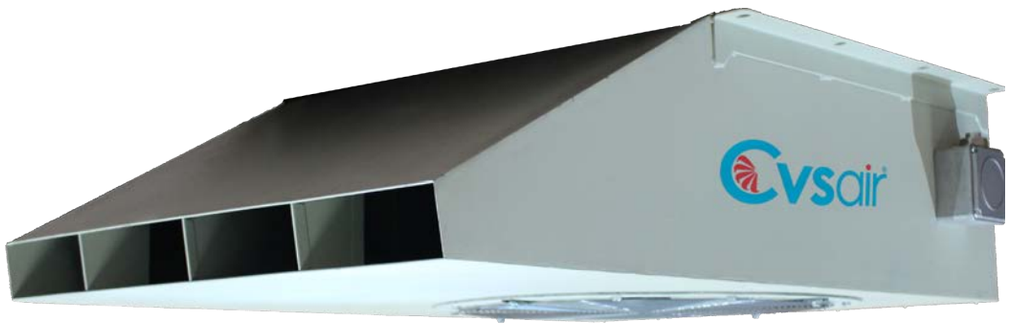
ENERGY EFFICIENT LONG LIFE

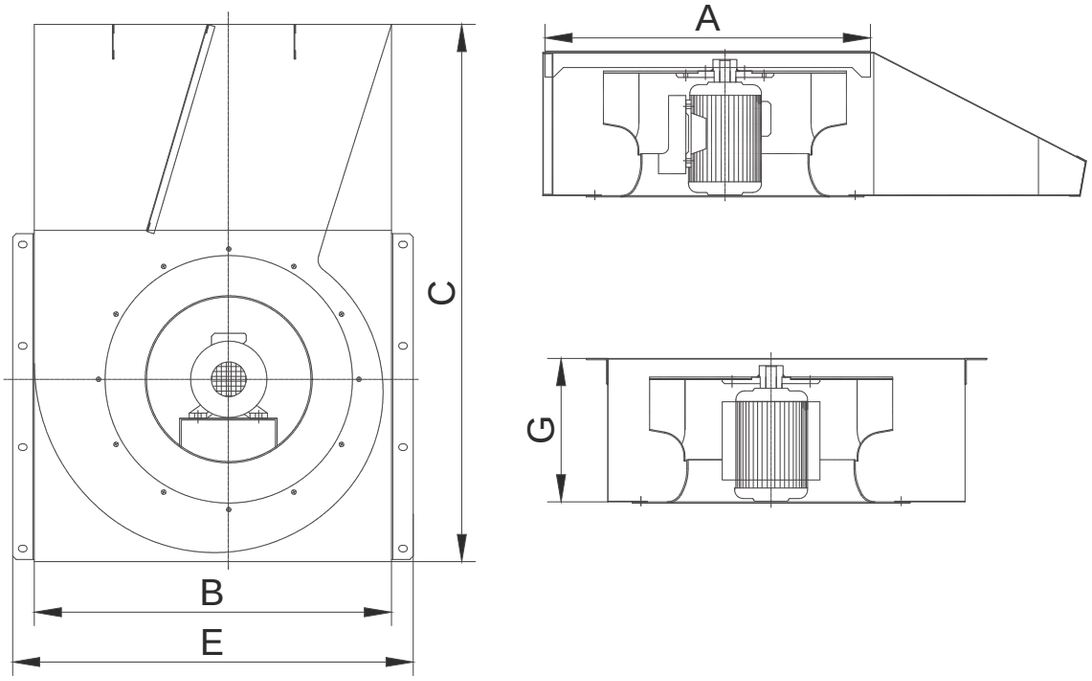
PRODUCT FEATURES

- Günlük havalandırma ve yangın anı için çift devirli motor Double speed motor for daily ventilation and in case of fire
- Koruma telli Protection grill
- Elektrostatik fırın boyalı Electrostatic oven-drying
- Gövde dışında konumlanmış terminal kutusu Exterior terminal box
- H yalıtım sınıfı, IP55 korumalı yüksek verimli IE2 motorlar H insulation class, high efficiency IE2 motors with IP55 protection class
- EN 12101-3 sertifikalı EN 12101-3 certificated
- Radyal kanat yapılı Jet fanlar, günlük havalandırma ve yangın durumunda çift devirli olarak çalışabilecek özellikte 750/ 1.500 dev/ dk. hızında motora sahip, EN 12101-3 e göre F300 ve F400 dayanımlı yapıda imal edilir. Cihazların motor emiş tarafında koruma teli bulunur. Radyal Jet Fan elektrik terminal kutuları da yangına dayanımlı olarak imal edilir Jet fans with radial wing can be manufactured as a capable of operation at double speed on 750/1.500 rpm according to EN12101-3 standarts in F300 and F400 fire-resistant structure. There is a protection wire on the suction side of the fans. Electrical terminal boxes of radial jet fans are manufactured as fire-resistant
- 60 Hz seçeneği mevcuttur 60 Hz option is available

TECHNICS

	RJ 60	RJ 100
VOLTAGE (V)	400	400
FREQUENCY (HZ)	50	50
POWER (KW)	0,33/1,4	0,6/2,5
CURRENT (A)	1,3/3,3	2/5,5
THRUST (N)	16/63	25/100
SPEED (rpm)	690/1390	690/1410
AIR FLOW (m^3/H)	3380/6690	5330/10690
SOUND PRESSURE LEVEL (dB)3m	76	83





DIMENSIONS

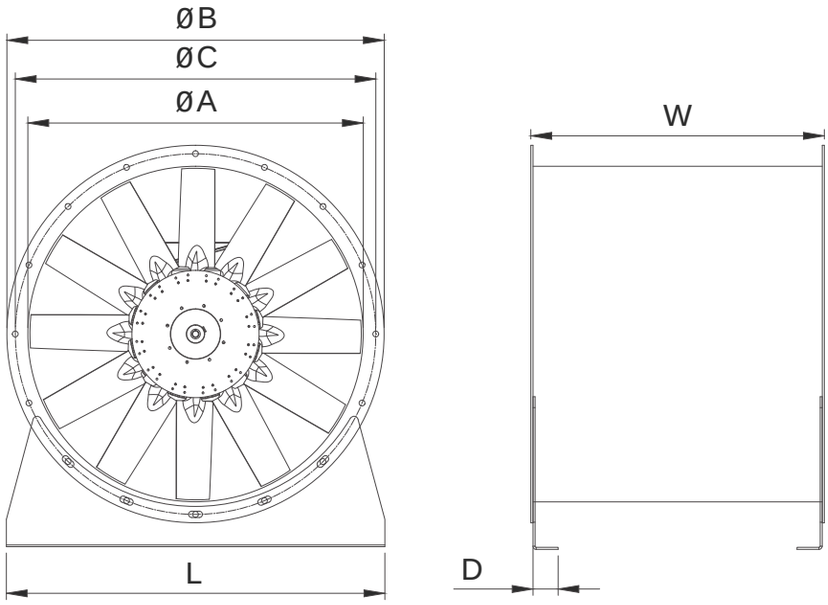
MODEL	A	B	C	E	G
RJ 60	763	823	923	1237	330
RJ 100	858	926	1036	1392	371

AXIAL DUCT TYPE FANS

ENERGY EFFICIENT LONG LIFE

PRODUCT FEATURES

- Sıcak daldırma galvanizli gövde Hot dip galvanised case
- Aerofoil kesitli alüminyum kanatlar Aerofoil-sectioned aluminium blades
- En yüksek verim için ayarlanabilir kanat açısı Adjustable blade angles for maximum efficiency
- Frekans invertörü ile çalışmaya uygun trifaze motorlar Three-phased motors suitable to operate with frequency inverters
- Çift devirli motor seçeneği Double speed motor option
- -20°C/55°C'de sürekli çalişabilme Continous operation between -20°C/55°C
- İki yönde de çalışabilme özelliği Reversible
- Dış ortamda çalışmaya uygun Suitable to operate outdoor
- Aksiyal fanlar sıcak daldırma galvanizli gövde ile aerofoil kesitli alüminyum ve polyamid kanat yapısı sayesinde yüksek debili ve basınçlı alanlar için uygun şartlarda dizayn edilmiştir Axial smoke fans are designed to operate in high-air-flow and pressurized areas with hot-dip galvanized body and aerofoil-sectioned aluminum blades
- Taze hava beslemesi ya da +55°C kadar olan havanın egzozunda FCL model fanlar kullanılabilmektedir. Talep edilmesi durumunda çift yönlü çalışmaya uygun dizayn yapılabilmektedir. Aksiyal fanlarda frekans invertörü ile çalışmaya uygun trifaze motorlar kullanılmaktadır. Aksiyal fanlar yatay ve dikey montaj ile dış ortamda çalışmaya uygun olarak dizayn edilebilmekte, montajında titreşim sönümleyiciler kullanılmakta ayrıca hava emiş ve atış tarafında podlu ve podsuz tip susturucu kullanılabilmeye imkân sağlayacak bağlantı flanşlarıyla birlikte üretilmektedir FCL model fans can be used in fresh air supply or exhaust of air up to + 55 °C temperature.If requested, it can be designed for reversible operation. Axial fans are equiped with three-phased motors suitable for operation with frequency inverters. Axial fans can be designed to work on the outside with horizontal and vertical installation, vibration dampers can be used in assembly and also with connection flanges which enable to use pod and podless sound attenuator on air suction and discharge side
- 60 Hz seçeneği mevcuttur 60 Hz option is available



DIMENSIONS

MODEL	A	B	C	D	E	F
CVS-Ø400	400	480	450	500	496	50
CVS-Ø450	450	530	500	500	560	50
CVS-Ø500	500	600	560	500	600	50
CVS-Ø560	560	660	620	500	662	50
CVS-Ø630	630	730	690	700	727	50
CVS-Ø710	710	810	770	700	806	50
CVS-Ø800	800	900	860	700	903	60
CVS-Ø900	900	1000	970	800	996	60
CVS-Ø1000	1000	1100	1070	800	1096	60
CVS-Ø1120	1120	1220	1190	900	1216	60
CVS-Ø1250	1250	1370	1320	900	1250	60

*All dimensions are in mm.

AXIAL
DUCT TYPE FANS

TECHNICS

MODEL	CVS-Ø400-0,55/2P	CVS-Ø400-0,75/2P	CVS-Ø400-1,1/2P	CVS-Ø400-1,5/2P	CVS-Ø400-2,2/2P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	0,55	0,75	1,1	1,5	2,2
CURRENT (A)	1,34	1,9	2,55	3,45	4,94
SPEED (rpm)	2780	2800	2800	2835	2840
AIR FLOW (m³/h)	6000	7000	8000	9000	10500
Sound PL (dB) 3m	63	64	64	66	68
WEIGHT (Kg)	33	39	39	43	45
WIRING DIAGRAM	Y	Y	Y	Y	Y

MODEL	CVS-Ø450-1,1/2P	CVS-Ø450-1,5/2P	CVS-Ø450-2,2/2P	CVS-Ø450-3/2P
VOLTAGE (V)	400	400	400	400
FREQUENCY (Hz)	50	50	50	50
POWER (kW)	1,1	1,5	2,2	3
CURRENT (A)	2,55	3,45	4,94	6,5
SPEED (rpm)	2800	2835	2840	2850
AIR FLOW (m³/h)	9500	11500	12500	14250
Sound PL (dB)3m	62	66	67	69
WEIGHT (Kg)	46	47	50	53
WIRING DIAGRAM	Y	Y	Y	Y

TECHNICS

MODEL	CVS-Ø500-1,5/2P	CVS-Ø500-2,2/2P	CVS-Ø500-3/2P	CVS-Ø500-4/2P	CVS-Ø500-5,5/2P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	1,5	2,2	3	4	5,5
CURRENT (A)	3,45	4,94	6,5	8,2	11,3
SPEED (rpm)	2835	2840	2850	2850	2870
AIR FLOW (m³/h)	11000	13000	15500	17000	20000
Sound PL (dB) 3m	63	66	69	71	73
WEIGHT (Kg)	58	60	63	76	82
WIRING DIAGRAM	Y	Y	Y	Y	D or Y-D

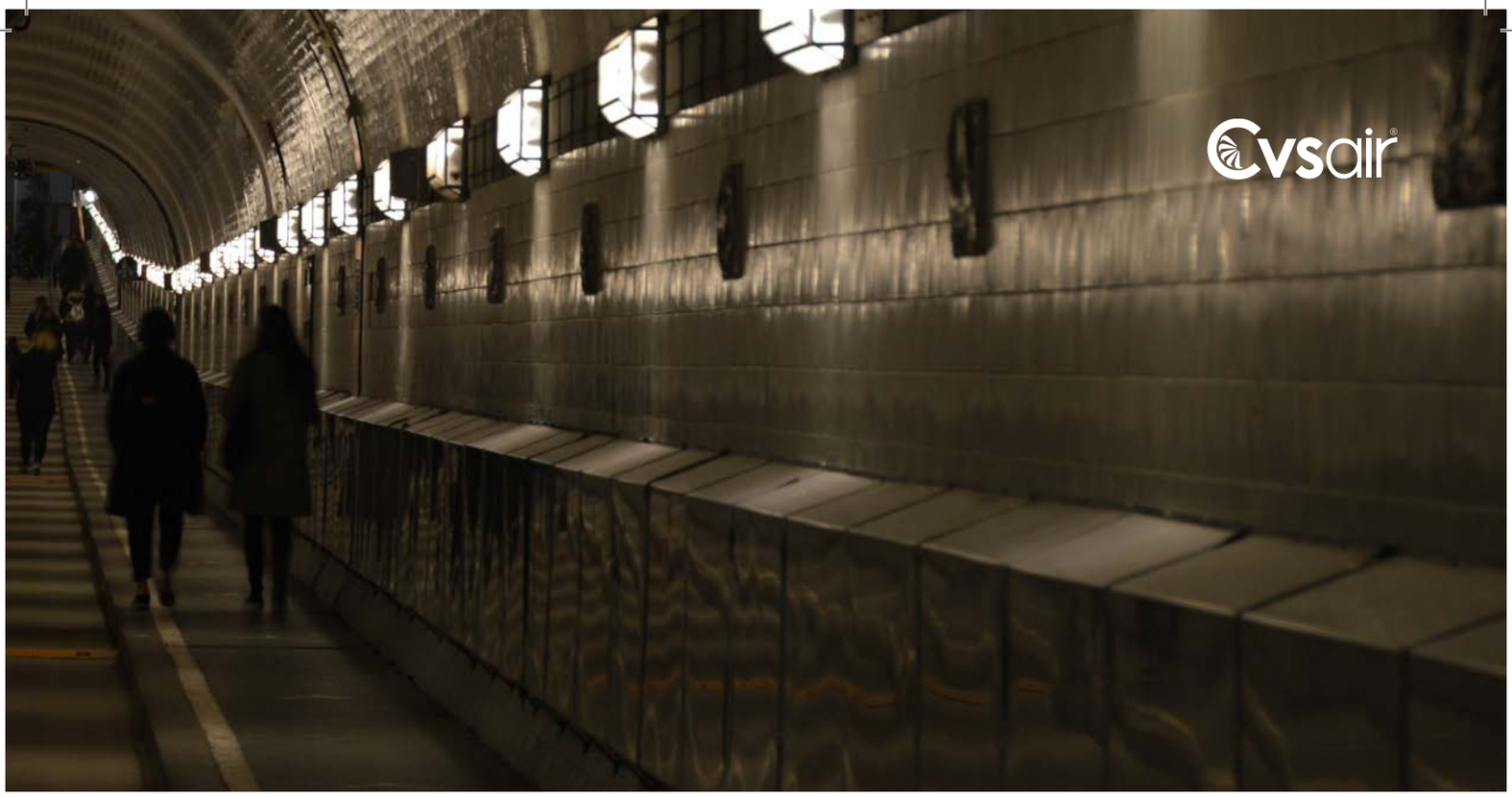
MODEL	CVS-Ø560-2,2/2P	CVS-Ø560-3/2P	CVS-Ø560-4/2P	CVS-Ø560-5,5/2P	CVS-Ø560-7,5/2P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	2,2	3	4	5,5	7,5
CURRENT (A)	4,94	6,5	8,2	11,3	15,4
SPEED (rpm)	2840	2850	2850	2870	2890
AIR FLOW (m³/h)	14000	17000	20500	23000	26500
Sound PL (dB) 3m	65	68	71	73	75
WEIGHT (Kg)	65	68	78	86	92
WIRING DIAGRAM	Y	Y	Y	D or Y-D	D or Y-D

AXIAL
DUCT TYPE FANS

TECHNICS

MODEL	CVS-Ø630-5,5/2P	CVS-Ø630-7,5/2P	CVS-Ø630-11/2P	CVS-Ø630-15/2P	CVS-Ø630-18,5/2P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	5,5	7,5	11	15	18,5
CURRENT (A)	11,3	15,4	22,4	28,5	35
SPEED (rpm)	2870	2890	2935	2940	2940
AIR FLOW (m³/h)	25500	30000	27500	31000	34250
Sound PL (dB) 3m	72	76	77	83	85
WEIGHT (Kg)	103	110	140	152	165
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D

MODEL	CVS-Ø710-1,5/4P	CVS-Ø710-2,2/4P	CVS-Ø710-3/4P	CVS-Ø710-4/4P	CVS-Ø710-5,5/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	1,5	2,2	3	4	5,5
CURRENT (A)	3,6	5,2	6,8	8,6	11,8
SPEED (rpm)	1385	1400	1410	1425	1430
AIR FLOW (m³/h)	19000	23000	25000	28000	30000
Sound PL (dB) 3m	65	67	69	71	71
WEIGHT (Kg)	90	93	97	105	118
WIRING DIAGRAM	Y	Y	Y	Y	D or Y-D



TECHNICS

MODEL	CVS-Ø800-2,2/4P	CVS-Ø800-3/4P	CVS-Ø800-4/4P	CVS-Ø800-5,5/4P	CVS-Ø800-7,5/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	2,2	3	4	5,5	7,5
CURRENT (A)	5,2	6,8	8,6	11,8	15,8
SPEED (rpm)	1400	1410	1425	1430	1430
AIR FLOW (m³/h)	26000	30500	34000	38000	40000
Sound PL (dB) 3m	67	69	71	73	73
WEIGHT (Kg)	111	115	123	137	145
WIRING DIAGRAM	Y	Y	Y	D or Y-D	D or Y-D

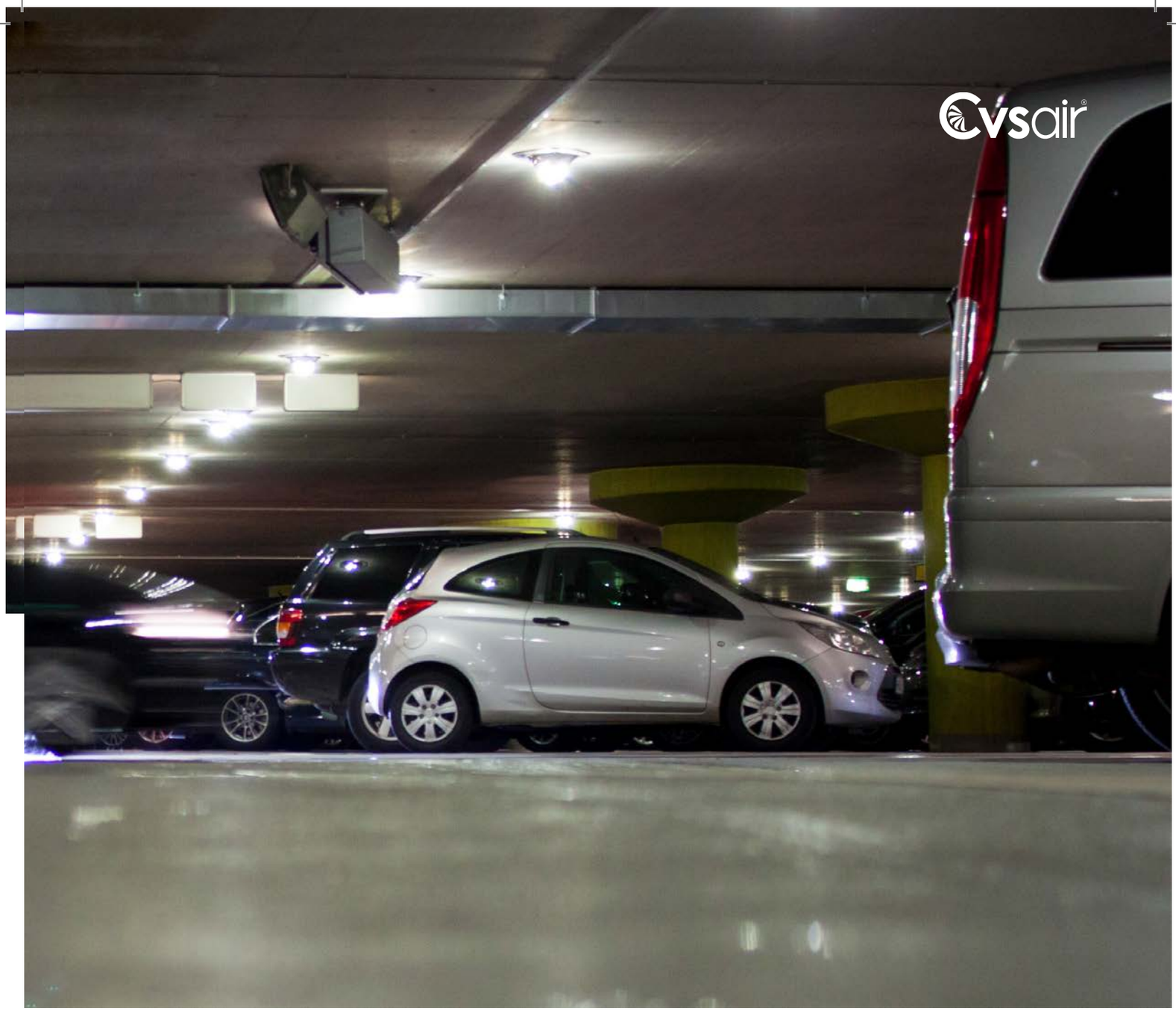
MODEL	CVS-Ø900-4/4P	CVS-Ø900-5,5/4P	CVS-Ø900-7,5/4P	CVS-Ø900-11/4P	CVS-Ø900-15/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	4	5,5	7,5	11	15
CURRENT (A)	8,6	11,8	15,8	22,6	30,5
SPEED (rpm)	1425	1430	1430	1455	1460
AIR FLOW (m³/h)	40000	44000	47500	52500	55000
Sound PL (dB) 3m	70	71	73	76	76
WEIGHT (Kg)	137	150	158	193	223
WIRING DIAGRAM	Y	D or Y-D	D or Y-D	D or Y-D	D or Y-D

AXIAL
DUCT TYPE FANS

TECHNICS

MODEL	CVS-Ø1000-7,5/4P	CVS-Ø1000-11/4P	CVS-Ø1000-15/4P	CVS-Ø1000-18,5/4P	CVS-Ø1000-22/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	7,5	11	15	18,5	22
CURRENT (A)	15,8	22,6	30,5	38	44
SPEED (rpm)	1430	1455	1460	1460	1455
AIR FLOW (m³/h)	56000	58000	69500	66000	74000
Sound PL (dB) 3m	73	74	78	77	79
WEIGHT (Kg)	165	200	230	253	264
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D

MODEL	CVS-Ø1120-15/4P	CVS-Ø1120-18,5/4P	CVS-Ø1120-22/4P	CVS-Ø1120-30/4P	CVS-Ø1120-37/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	15	18,5	22	30	37
CURRENT (A)	30,5	38	44	57	70
SPEED (rpm)	1460	1460	1455	1460	1465
AIR FLOW (m³/h)	75000	81000	87000	98000	108000
Sound PL (dB) 3m	76	78	79	81	83
WEIGHT (Kg)	246	265	280	379	416
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D



TECHNICS

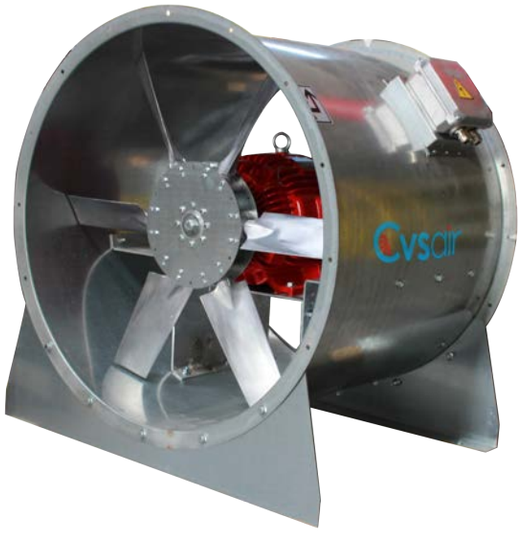
MODEL	CVS-Ø1250-18,5/4P	CVS-Ø1250-22/4P	CVS-Ø1250-30/4P	CVS-Ø1250-37/4P	CVS-Ø1250-45/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	18,5	22	30	37	45
CURRENT (A)	38	44	57	70	84
SPEED (rpm)	1460	1455	1460	1465	1465
AIR FLOW (m³/h)	86000	93000	106000	122000	128000
Sound PL (dB) 3m	74	79	79	82	82
WEIGHT (Kg)	281	297	394	429	474
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D

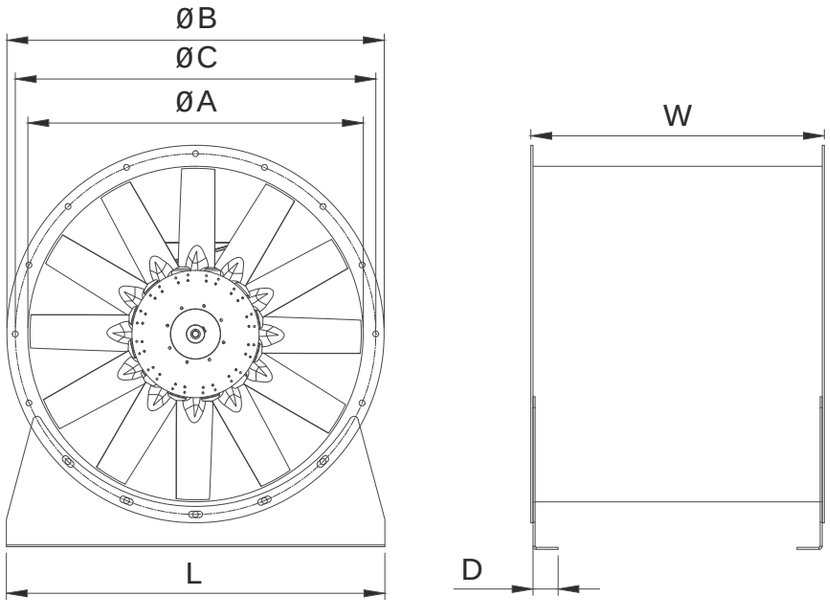
AXIAL SMOKE F300 FANS

ENERGY EFFICIENT LONG LIFE

PRODUCT FEATURES

- Sıcak daldırma galvanizli gövde Hot dip galvanised case
- Aerofoil kesitli alüminyum kanatlar Aerofoil-sectioned aluminium blades
- EN yüksek verim için ayarlanabilir kanat açısı Adjustable blade angles for maximum efficiency
- Frekans invertörü ile çalışmaya uygun trifaze motorlar (F300) Three-phased motors suitable to operate with frequency inverters (F300)
- Çift devirli motor seçeneği Double speed motor option
- Hava akış yönü motordan pervaneye şeklinde Airflow from motor to impeller
- EN 12101-3 standardına uygun, sertifikalı Certificated according to EN 12101-3
- Aksiyal duman fanları sıcak daldırma galvanizli gövde ile aerofoil kesitli alüminyum kanat yapısı sayesinde yüksek debili ve basınçlı alanlar için uygun şartlarda dizayn edilmiştir Axial smoke fans are designed to operate in high-airflow and pressurized areas with hot-dip galvanized body and aerofoil-sectioned aluminum blades
- Duman tahliye gerektiren ortamlarda H izolasyon sınıfı motorlar ile EN12101-3 standardına göre ve F300 sıcaklık dayanım sınıfında sertifikalıdır. Talep edilmesi durumunda çift yönlü çalışmaya uygun dizayn yapılabilmektedir. Aksiyal fanlarda frekans invertörü ile çalışmaya uygun trifaze motorlar kullanılmaktadır Axial smoke exhaust fans with H class isolated motors, are certificated of F300 temperature resistance class according to EN-12101-3 to operate in where smoke extraction is required. If requested , fans can be designed to operate as reversible. Axial fans are equipped with three-phased motors suitable for operation with frequency inverters
- Aksiyal fanlar yatay ve dikey montaj ile dış ortamda çalışmaya uygun olarak dizayn edilebilmekte, montajında titreşim sönümleyiciler kullanılmakta ayrıca hava emiş ve atış tarafında podlu ve podsuz tip susturucu kullanılabilmeye imkân sağlayacak bağlantı flanşlarıyla birlikte üretilmektedir Axial fans can be designed to work on the outside with horizontal and vertical installation, vibration absorbers can be used in assembly and also with connection flanges which enable to use pod and podless sound attenuator on air suction and discharge side
- 60 Hz seçeneği mevcuttur 60 Hz option is available





DIMENSIONS

MODEL	A	B	C	D	E	F
CVS-Ø400	400	480	450	500	496	50
CVS-Ø450	450	530	500	500	560	50
CVS-Ø500	500	600	560	500	600	50
CVS-Ø560	560	660	620	500	662	50
CVS-Ø630	630	730	690	700	727	50
CVS-Ø710	710	810	770	700	806	50
CVS-Ø800	800	900	860	700	903	60
CVS-Ø900	900	1000	970	800	996	60
CVS-Ø1000	1000	1100	1070	800	1096	60
CVS-Ø1120	1120	1220	1190	900	1216	60
CVS-Ø1250	1250	1370	1320	900	1250	60

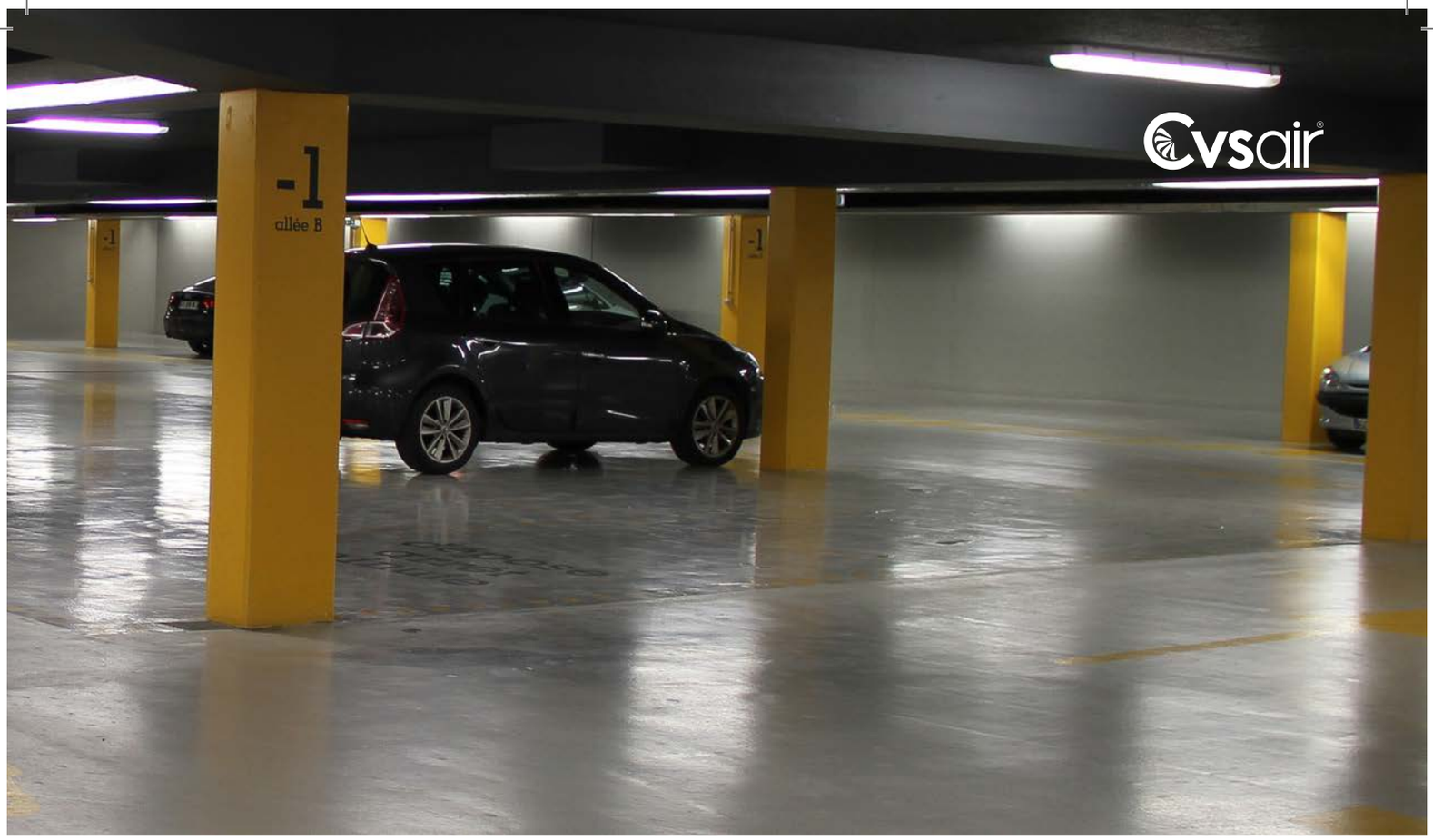
*All dimensions are in mm.

AXIAL
SMOKE F300 FANS

TECHNICS

MODEL	CVS-Ø400-0,55/2P	CVS-Ø400-0,75/2P	CVS-Ø400-1,1/2P	CVS-Ø400-1,5/2P	CVS-Ø400-2,2/2P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	0,55	0,75	1,1	1,5	2,2
CURRENT (A)	1,27	1,9	2,55	3,45	4,94
SPEED (rpm)	2780	2800	2800	2835	2840
AIR FLOW (m³/h)	6000	7000	8000	9000	10500
SOUND PL (dB) 3m	63	64	64	66	68
WEIGHT (Kg)	36	48	49	53	56
WIRING DIAGRAM	Y	Y	Y	Y	Y

MODEL	CVS-Ø450-1,1/2P	CVS-Ø450-1,5/2P	CVS-Ø450-2,2/2P	CVS-Ø450-3/2P
VOLTAGE (V)	400	400	400	400
FREQUENCY (Hz)	50	50	50	50
POWER (kW)	1,1	1,5	2,2	3
CURRENT (A)	2,55	3,45	4,94	6,5
SPEED (rpm)	2800	2835	2840	2850
AIR FLOW (m³/h)	9500	11500	12500	14250
SOUND PL (dB) 3m	62	66	67	69
WEIGHT (Kg)	53	58	60	69
WIRING DIAGRAM	Y	Y	Y	Y



TECHNICS

MODEL	CVS-Ø500-1,5/2P	CVS-Ø500-2,2/2P	CVS-Ø500-3/2P	CVS-Ø500-4/2P	CVS-Ø500-5,5/2P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	1,5	2,2	3	4	5,5
CURRENT (A)	3,45	4,94	6,5	8,2	11,3
SPEED (rpm)	2835	2840	2850	2850	2870
AIR FLOW (m³/h)	11000	13000	15500	17000	20000
SOUND PL (dB) 3m	63	66	69	71	73
WEIGHT (Kg)	69	71	80	84	101
WIRING DIAGRAM	Y	Y	Y	D	D or Y-D

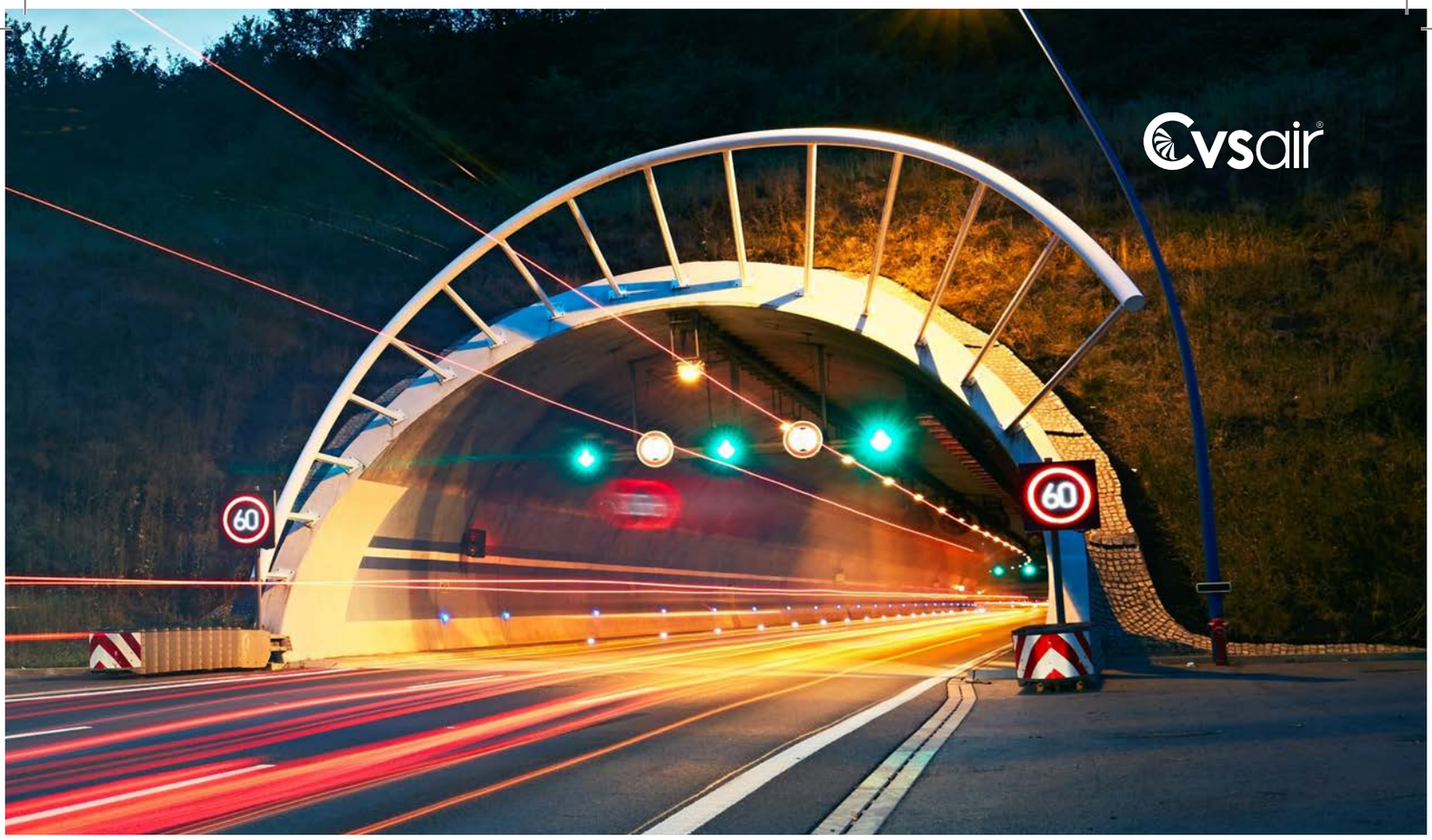
MODEL	CVS-Ø560-2,2/2P	CVS-Ø560-3/2P	CVS-Ø560-4/2P	CVS-Ø560-5,5/2P	CVS-Ø560-7,5/2P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	2,2	3	4	5,5	7,5
CURRENT (A)	4,94	6,5	8,2	11,3	15,4
SPEED (rpm)	2840	2850	2850	2870	2890
AIR FLOW (m³/h)	14000	17000	20500	23000	26500
SOUND PL (dB) 3m	65	68	71	73	75
WEIGHT (Kg)	77	85	89	106	111
WIRING DIAGRAM	Y	Y	D	D or Y-D	D or Y-D

AXIAL
SMOKE F300 FANS

TECHNICS

MODEL	CVS-Ø630-5,5/2P	CVS-Ø630-7,5/2P	CVS-Ø630-11/2P	CVS-Ø630-15/2P	CVS-Ø630-18,5/2P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	5,5	7,5	11	15	18,5
CURRENT (A)	11,3	15,4	22,4	28,5	35
SPEED (rpm)	2870	2890	2935	2940	2940
AIR FLOW (m³/h)	25500	30000	27500	31000	34250
SOUND PL (dB) 3m	72	76	77	83	85
WEIGHT (Kg)	123	128	176	185	207
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D

MODEL	CVS-Ø710-1,5/4P	CVS-Ø710-2,2/4P	CVS-Ø710-3/4P	CVS-Ø710-4/4P	CVS-Ø710-5,5/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	1,5	2,2	3	4	5,5
CURRENT (A)	3,6	5,2	6,8	8,6	11,8
SPEED (rpm)	1385	1400	1410	1425	1430
AIR FLOW (m³/h)	19000	23000	25000	28000	30000
SOUND PL (dB) 3m	65	67	69	71	71
WEIGHT (Kg)	90	93	97	105	118
WIRING DIAGRAM	Y	Y	Y	D	D or Y-D



TECHNICS

MODEL	CVS-Ø800-2,2/4P	CVS-Ø800-3/4P	CVS-Ø800-4/4P	CVS-Ø800-5,5/4P	CVS-Ø800-7,5/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	2,2	3	4	5,5	7,5
CURRENT (A)	5,2	6,8	8,6	11,8	15,8
SPEED (rpm)	1400	1410	1425	1430	1430
AIR FLOW (m³/h)	26000	30500	34000	38000	40000
SOUND PL (dB) 3m	67	69	71	73	73
WEIGHT (Kg)	127	133	148	157	169
WIRING DIAGRAM	Y	Y	D	D or Y-D	D or Y-D

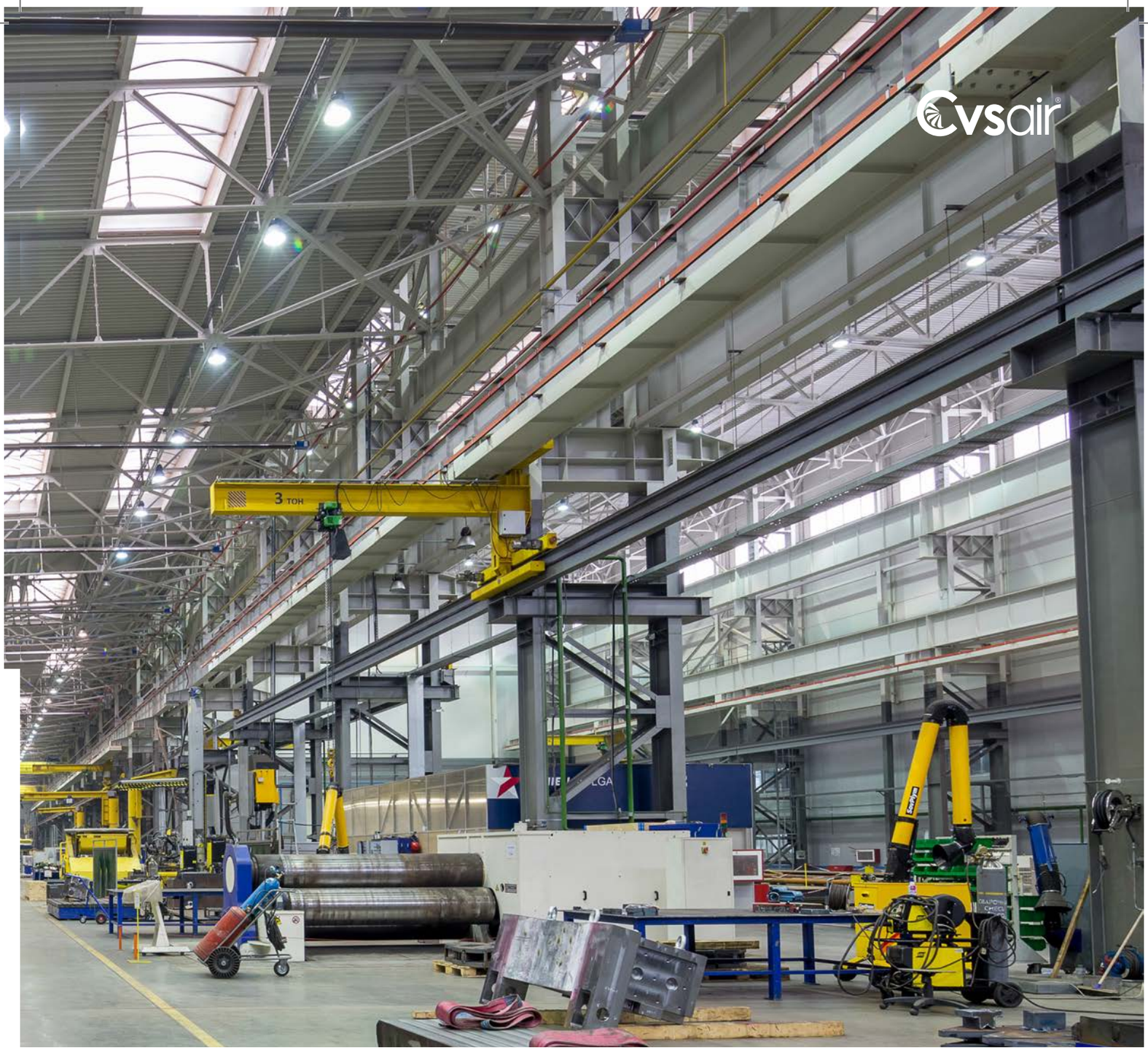
MODEL	CVS-Ø900-4/4P	CVS-Ø900-5,5/4P	CVS-Ø900-7,5/4P	CVS-Ø900-11/4P	CVS-Ø900-15/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	4	5,5	7,5	11	15
CURRENT (A)	8,6	11,8	15,8	22,6	30,5
SPEED (rpm)	1425	1430	1430	1455	1460
AIR FLOW (m³/h)	40000	44000	47500	52500	55000
SOUND PL (dB) 3m	IP 55	IP 55	IP 55	IP 55	IP 55
WEIGHT (Kg)	157	171	182	244	259
WIRING DIAGRAM	D	D or Y-D	D or Y-D	D or Y-D	D or Y-D

AXIAL
SMOKE F300 FANS

TECHNICS

MODEL	CVS-Ø1000-7,5/4P	CVS-Ø1000-11/4P	CVS-Ø1000-15/4P	CVS-Ø1000-18,5/4P	CVS-Ø1000-22/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	7,5	11	15	18,5	22
CURRENT (A)	15,8	22,6	30,5	38	44
SPEED (rpm)	1430	1455	1460	1460	1455
AIR FLOW (m³/h)	56000	58000	69500	66000	74000
SOUND PL (dB) 3m	73	74	78	77	79
WEIGHT (Kg)	187	249	260	305	313
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D

MODEL	CVS-Ø1120-15/4P	CVS-Ø1120-18,5/4P	CVS-Ø1120-22/4P	CVS-Ø1120-30/4P	CVS-Ø1120-37/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	15	18,5	22	30	37
CURRENT (A)	30,5	38	44	57	70
SPEED (rpm)	1460	1460	1455	1460	1465
AIR FLOW (m³/h)	75000	81000	87000	98000	108000
SOUND PL (dB) 3m	76	78	79	81	83
WEIGHT (Kg)	276	317	327	365	455
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D



TECHNICS

MODEL	CVS-Ø1250-18,5/4P	CVS-Ø1250-22/4P	CVS-Ø1250-30/4P	CVS-Ø1250-37/4P	CVS-Ø1250-45/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	18,5	22	30	37	45
CURRENT (A)	38	44	57	70	84
SPEED (rpm)	1460	1455	1460	1465	1465
AIR FLOW (m³/h)	86000	93000	106000	122000	128000
SOUND PL (dB) 3m	74	79	79	82	82
WEIGHT (Kg)	333	345	380	467	515
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D

AXIAL
SMOKE F300 FANS

PERFORMANCES

MODEL	AIRFLOW (m³/h)						
	0 Pa	150 Pa	300 Pa	450 Pa	600 Pa	750 Pa	900 Pa
CVS-Ø400-0,55/2P F300	6000	5250	4000				
CVS-Ø400-0,75/2P F300	7000	6200	4900	2500			
CVS-Ø400-1,1/2P F300	8000	7300	5800				
CVS-Ø400-1,5/2P F300	9000	7800	6400				
CVS-Ø400-2,2/2P F300	10500	9300	7700				
CVS-Ø450-1,1/2P F300	9500	8500	6750				
CVS-Ø450-1,5/2P F300	11500	10200	8600	5600			
CVS-Ø450-2,2/2P F300	12500	11300	9600	7000			
CVS-Ø450-3/2P F300	14250	12700	10800				
CVS-Ø500-1,5/2P F300	11000	10500	8100	6100			
CVS-Ø500-2,2/2P F300	13000	12000	10200	8200			
CVS-Ø500-3/2P F300	15500	14200	12500	10600	6800		
CVS-Ø500-4/2P F300	17000	14900	14000	12000	8300		
CVS-Ø500-5,5/2P F300	20000	18200	16000	12800	10200		
CVS-Ø560-2,2/2P F300	14000	12600	10700	8750	5700		
CVS-Ø560-3/2P F300	17000	15600	14000	11800	8900		
CVS-Ø560-4/2P F300	20500	19000	17400	15200	12200		
CVS-Ø560-5,5/2P F300	23000	21400	19400	15300	14600		
CVS-Ø560-7,5/2P F300	26500	24000	22000	19700	17000		

PERFORMANCES

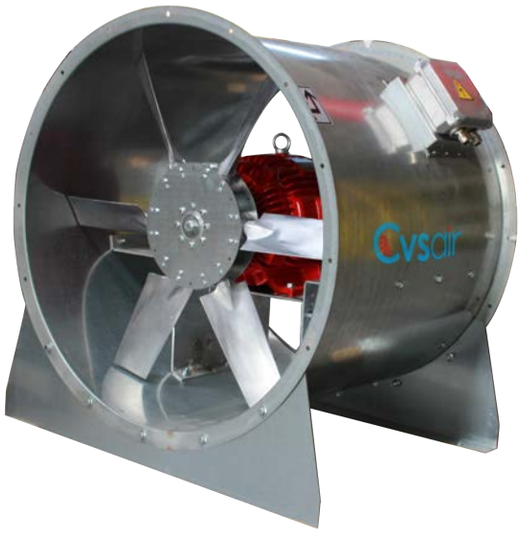
MODEL	AIRFLOW (m³/h)						
	0 Pa	150 Pa	300 Pa	450 Pa	600 Pa	750 Pa	900 Pa
CVS-Ø630-5,5/2P F300	25500	24000	21600	19000	15800		
CVS-Ø630-7,5/2P F300	30000	26000	24400	22800	21200	19400	17500
CVS-Ø630-11/2P F300	29400	27200	24800	22000	184000	13400	
CVS-Ø630-15/2P F300	31000	29400	27700	26000	24000	22000	19800
CVS-Ø630-18,5/2P F300	34250	32600	31000	29000	27000	24400	21700
CVS-Ø710-1,5/4P F300	19000	14800	7800				
CVS-Ø710-2,2/4P F300	23000	17900					
CVS-Ø710-3/4P F300	25000	20200					
CVS-Ø710-4/4P F300	28000	24600	19750				
CVS-Ø710-5,5/4P F300	30000	24000					
CVS-Ø800-2,2/4P F300	26000	20000					
CVS-Ø800-3/4P F300	30500	24500	13000				
CVS-Ø800-4/4P F300	34000	29000	23000				
CVS-Ø800-5,5/4P F300	38000	32300	20000				
CVS-Ø800-7,5/4P F300	40000	35500	30000				
CVS-Ø900-4/4P F300	40000	33000	24500				
CVS-Ø900-5,5/4P F300	44000	38000	30000				
CVS-Ø900-7,5/4P F300	47500	41500	32700				
CVS-Ø900-11/4P F300	52500	48000	42000	30000			
CVS-Ø900-15/4P F300	55000	50000	45500	35500			
CVS-Ø1000-7,5/4P F300	56000	50000	42500	27000			
CVS-Ø1000-11/4P F300	58000	53000	47500	38000			
CVS-Ø1000-15/4P F300	69500	62000	57000	50000			
CVS-Ø1000-18,5/4P F300	66000	64000	59600	50000			
CVS-Ø1000-22/4P F300	74000	67000	60000	48500			
CVS-Ø1120-15/4P F300	75000	69500	63000	55500	44000		
CVS-Ø1120-18,5/4P F300	81000	75500	69000	61500	50000		
CVS-Ø1120-22/4P F300	87000	82300	75000	67000	56000		
CVS-Ø1120-30/4P F300	98000	90000	82500	70000			
CVS-Ø1120-37/4P F300	108000	102000	94000	80000			
CVS-Ø1250-18,5/4P F300	86000	80000	73000	62000	46000		
CVS-Ø1250-22/4P F300	93000	87000	80000	73500	65000		
CVS-Ø1250-30/4P F300	106000	99000	90000	78000	60000		
CVS-Ø1250-37/4P F300	122000	115000	105000	93000	68000		
CVS-Ø1250-45/4P F300	128000	121000	114000	105000	92000		

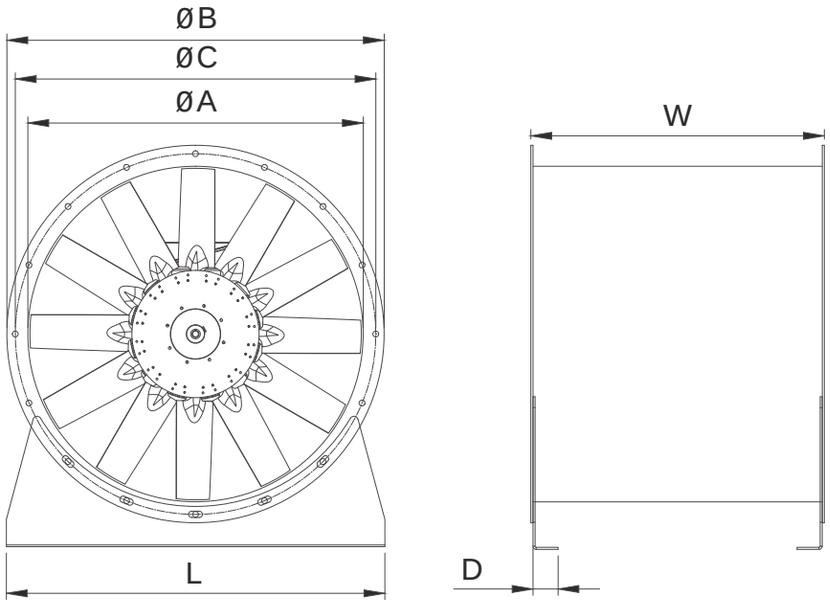
AXIAL SMOKE F400 FANS

ENERGY EFFICIENT LONG LIFE

PRODUCT FEATURES

- Sıcak daldırma galvanizli gövde Hot dip galvanised case
- Aerofoil kesitli alüminyum kanatlar Aerofoil-sectioned aluminium blades
- EN yüksek verim için ayarlanabilir kanat açısı Adjustable blade angles for maximum efficiency
- Frekans invertörü ile çalışmaya uygun trifaze motorlar (F400) Three-phased motors suitable to operate with frequency inverters (F400)
- Çift devirli motor seçeneği Double speed motor option
- Hava akış yönü motordan pervaneye şeklinde Air flow from motor to impeller
- EN 12101-3 standardına uygun, sertifikalı Certificated according to EN 12101-3
- Aksiyal duman fanları sıcak daldırma galvanizli gövde ile aerofoil kesitli alüminyum kanat yapısı sayesinde yüksek debili ve basınçlı alanlar için uygun şartlarda dizayn edilmiştir Axial smoke fans are designed to operate in high-airflow and pressurized areas with hot-dip galvanized body and aerofoil-sectioned aluminum blades
- Duman tahliye gerektiren ortamlarda H izolasyon sınıfı motorlar ile EN12101-3 standardına göre ve F400 sıcaklık dayanım sınıfında sertifikalıdır. Talep edilmesi durumunda çift yönlü çalışmaya uygun dizayn yapılabilmektedir. Aksiyal fanlarda frekans invertörü ile çalışmaya uygun trifaze motorlar kullanılmaktadır Axial smoke exhaust fans with H class isolated motors, are certificated of F400 temperature resistance class according to EN-12101-3 to operate in where smoke extraction is required. If requested , fans can be designed to operate as reversible. Axial fans are equipped with three-phased motors suitable for operation with frequency inverters
- Aksiyal fanlar yatay ve dikey montaj ile dış ortamda çalışmaya uygun olarak dizayn edilebilmekte, montajında titreşim sönümleyiciler kullanılmakta ayrıca hava emiş ve atış tarafında podlu ve podsuz tip susturucu kullanılabilmeye imkân sağlayacak bağlantı flanşlarıyla birlikte üretilmektedir Axial fans can be designed to work on the outside with horizontal and vertical installation, vibration absorber can be used in assembly and also with connection flanges which enable to use pod and podless sound attenuator on air suction and discharge side
- 60 Hz seçeneği mevcuttur 60 Hz option is available





DIMENSIONS

MODEL	A	B	C	D	E	F
CVS-Ø400	400	480	450	500	496	50
CVS-Ø450	450	530	500	500	560	50
CVS-Ø500	500	600	560	500	600	50
CVS-Ø560	560	660	620	500	662	50
CVS-Ø630	630	730	690	700	727	50
CVS-Ø710	710	810	770	700	806	50
CVS-Ø800	800	900	860	700	903	60
CVS-Ø900	900	1000	970	800	996	60
CVS-Ø1000	1000	1100	1070	800	1096	60
CVS-Ø1120	1120	1220	1190	900	1216	60
CVS-Ø1250	1250	1370	1320	900	1250	60

*All dimensions are in mm.

AXIAL
SMOKE F400 FANS

TECHNICS

MODEL	CVS-Θ400-0,55/2P	CVS-Θ400-0,75/2P	CVS-Θ400-1,1/2P	CVS-Θ400-1,5/2P	CVS-Θ400-2,2/2P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	0,55	0,75	1,1	1,5	2,2
CURRENT (A)	1,27	1,9	2,55	3,45	4,94
SPEED (rpm)	2780	2800	2800	2835	2840
AIR FLOW (m³/h)	6000	7000	8000	9000	10500
SOUND PL (dB) 3m	63	64	64	66	68
WEIGHT (Kg)	36	48	49	53	56
WIRING DIAGRAM	Y	Y	Y	Y	Y

MODEL	CVS-Θ450-1,1/2P	CVS-Θ450-1,5/2P	CVS-Θ450-2,2/2P	CVS-Θ450-3/2P
VOLTAGE (V)	400	400	400	400
FREQUENCY (Hz)	50	50	50	50
POWER (kW)	1,1	1,5	2,2	3
CURRENT (A)	2,55	3,45	4,94	6,5
SPEED (rpm)	2800	2835	2840	2850
AIR FLOW (m³/h)	9500	11500	12500	14250
SOUND PL (dB) 3m	62	66	67	69
WEIGHT (Kg)	53	58	60	69
WIRING DIAGRAM	Y	Y	Y	Y

TECHNICS

MODEL	CVS-Ø500-1,5/2P	CVS-Ø500-2,2/2P	CVS-Ø500-3/2P	CVS-Ø500-4/2P	CVS-Ø500-5,5/2P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	1,5	2,2	3	4	5,5
CURRENT (A)	3,45	4,94	6,5	8,2	11,3
SPEED (rpm)	2835	2840	2850	2850	2870
AIR FLOW (m³/h)	11000	13000	15500	17000	20000
SOUND PL (dB) 3m	63	66	69	71	73
WEIGHT (Kg)	69	71	80	84	101
WIRING DIAGRAM	Y	Y	Y	D	D or Y-D

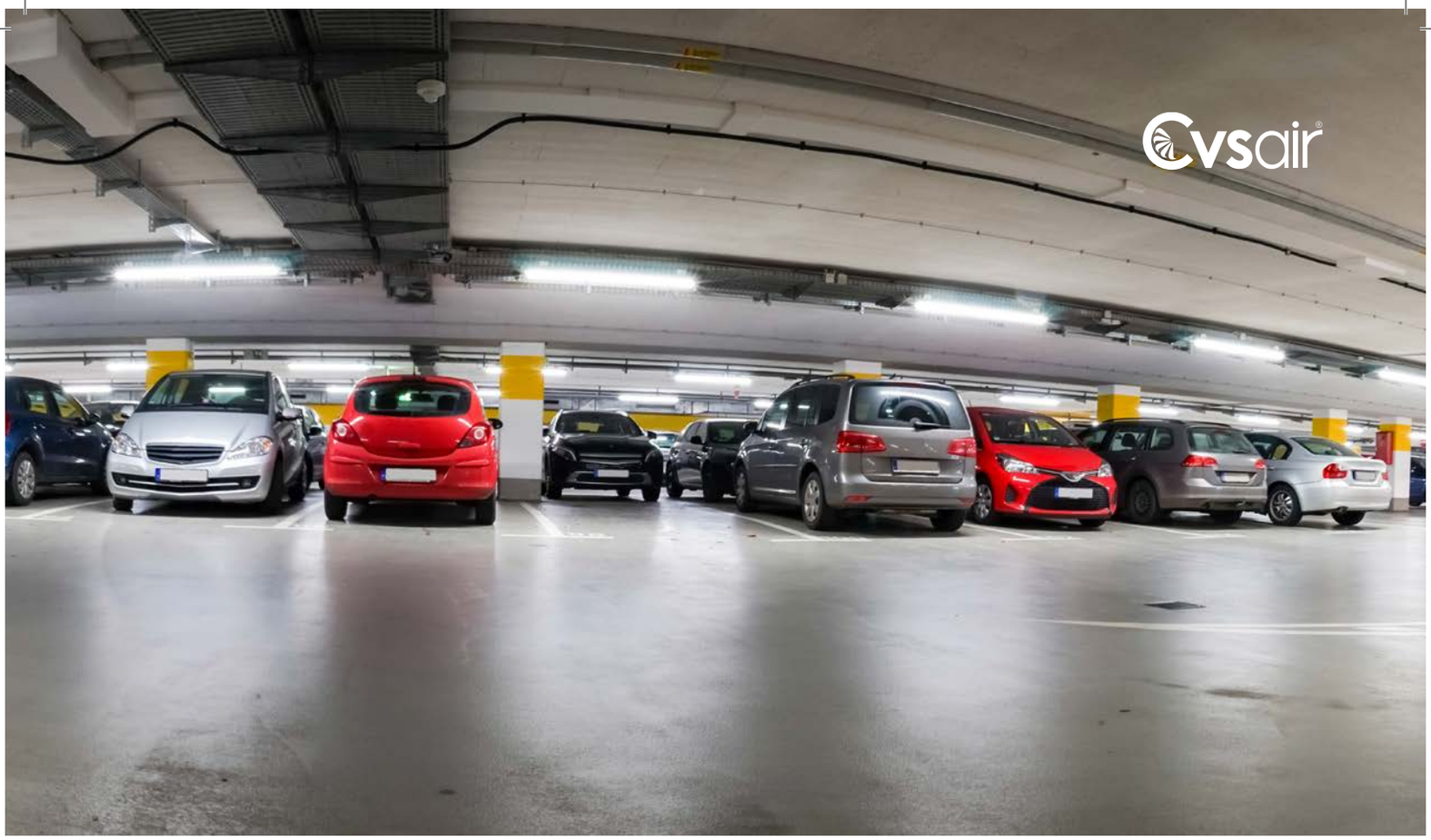
MODEL	CVS-Ø560-2,2/2P	CVS-Ø560-3/2P	CVS-Ø560-4/2P	CVS-Ø560-5,5/2P	CVS-Ø560-7,5/2P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	2,2	3	4	5,5	7,5
CURRENT (A)	4,94	6,5	8,2	11,3	15,4
SPEED (rpm)	2840	2850	2850	2870	2890
AIR FLOW (m³/h)	14000	17000	20500	23000	26500
SOUND PL (dB) 3m	65	68	71	73	75
WEIGHT (Kg)	77	85	89	106	111
WIRING DIAGRAM	Y	Y	D	D or Y-D	D or Y-D

AXIAL
SMOKE F400 FANS

TECHNICS

MODEL	CVS-Ø630-5,5/2P	CVS-Ø630-7,5/2P	CVS-Ø630-11/2P	CVS-Ø630-15/2P	CVS-Ø630-18,5/2P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	5,5	7,5	11	15	18,5
CURRENT (A)	11,3	15,4	22,4	28,5	35
SPEED (rpm)	2870	2890	2935	2940	2940
AIR FLOW (m³/h)	25500	30000	27500	31000	34250
SOUND PL (dB) 3m	72	76	77	83	85
WEIGHT (Kg)	123	128	176	185	207
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D

MODEL	CVS-Ø710-1,5/4P	CVS-Ø710-2,2/4P	CVS-Ø710-3/4P	CVS-Ø710-4/4P	CVS-Ø710-5,5/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	1,5	2,2	3	4	5,5
CURRENT (A)	3,6	5,2	6,8	8,6	11,8
SPEED (rpm)	1385	1400	1410	1425	1430
AIR FLOW (m³/h)	19000	23000	25000	28000	30000
SOUND PL (dB) 3m	65	67	69	71	71
WEIGHT (Kg)	90	93	97	105	118
WIRING DIAGRAM	Y	Y	Y	D	D or Y-D



TECHNICS

MODEL	CVS-Ø800-2,2/4P	CVS-Ø800-3/4P	CVS-Ø800-4/4P	CVS-Ø800-5,5/4P	CVS-Ø800-7,5/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	2,2	3	4	5,5	7,5
CURRENT (A)	5,2	6,8	8,6	11,8	15,8
SPEED (rpm)	1400	1410	1425	1430	1430
AIR FLOW (m³/h)	26000	30500	34000	38000	40000
SOUND PL (dB) 3m	67	69	71	73	IP 55
WEIGHT (Kg)	127	133	148	157	73
WIRING DIAGRAM	Y	Y	D	D or Y-D	D or Y-D

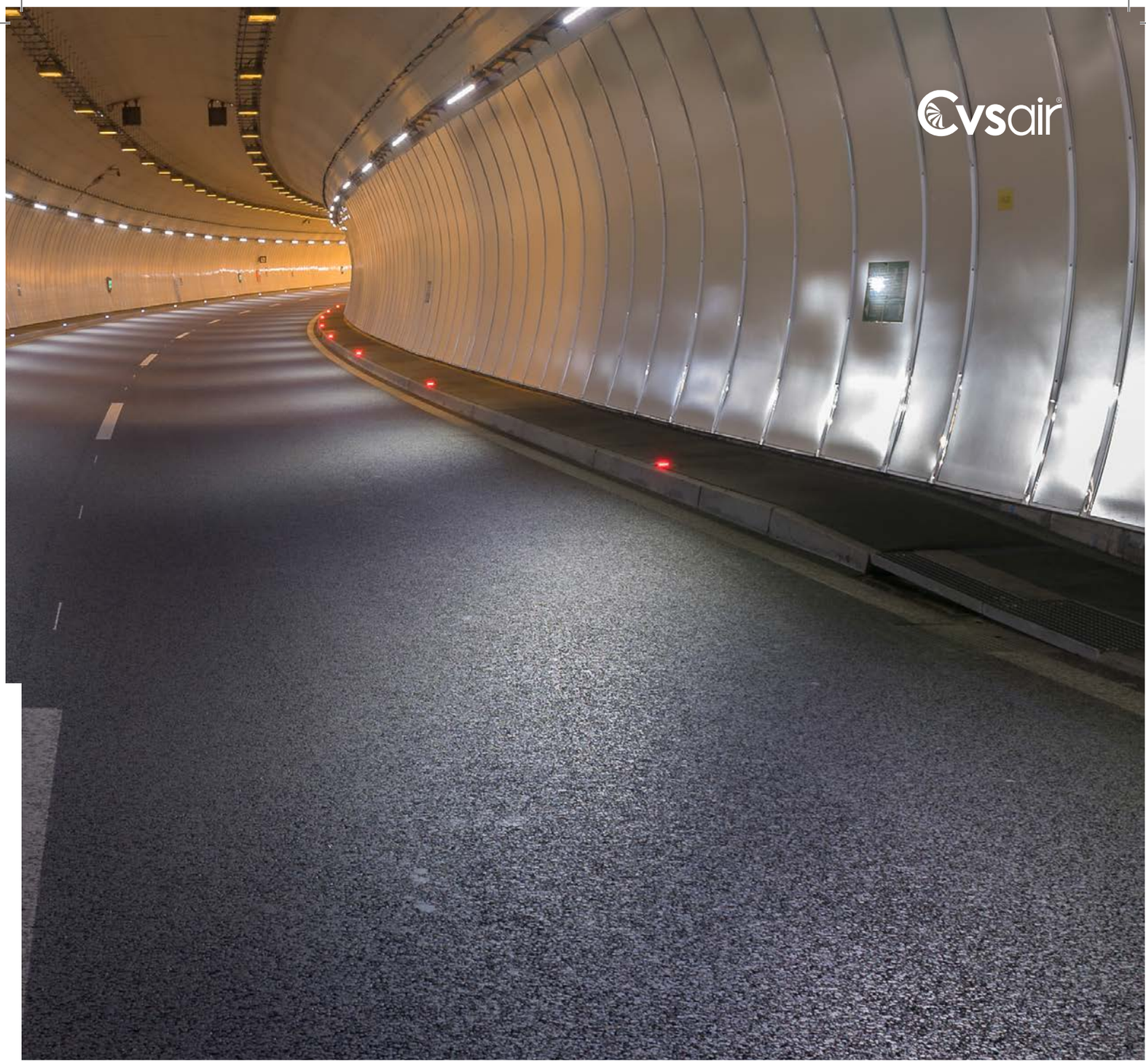
MODEL	CVS-Ø900-4/4P	CVS-Ø900-5,5/4P	CVS-Ø900-7,5/4P	CVS-Ø900-11/4P	CVS-Ø900-15/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	4	5,5	7,5	11	15
CURRENT (A)	8,6	11,8	15,8	22,6	30,5
SPEED (rpm)	1425	1430	1430	1455	1460
AIR FLOW (m³/h)	40000	44000	47500	52500	55000
SOUND PL (dB) 3m	70	71	73	76	76
WEIGHT (Kg)	157	171	182	244	259
WIRING DIAGRAM	D	D or Y-D	D or Y-D	D or Y-D	D or Y-D

AXIAL
SMOKE F400 FANS

TECHNICS

MODEL	CVS-Ø1000-7,5/4P	CVS-Ø1000-11/4P	CVS-Ø1000-15/4P	CVS-Ø1000-18,5/4P	CVS-Ø1000-22/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	7,5	11	15	18,5	22
CURRENT (A)	15,8	22,6	30,5	38	44
SPEED (rpm)	1430	1455	1460	1460	1455
AIR FLOW (m³/h)	56000	58000	69500	66000	74000
SOUND PL (dB) 3m	73	74	78	77	79
WEIGHT (Kg)	187	249	260	305	313
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D

MODEL	CVS-Ø1120-15/4P	CVS-Ø1120-18,5/4P	CVS-Ø1120-22/4P	CVS-Ø1120-30/4P	CVS-Ø1120-37/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	15	18,5	22	30	37
CURRENT (A)	30,5	38	44	57	70
SPEED (rpm)	1460	1460	1455	1460	1465
AIR FLOW (m³/h)	75000	81000	87000	98000	108000
SOUND PL (dB) 3m	76	78	79	81	83
WEIGHT (Kg)	276	317	327	365	455
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D



TECHNICS

MODEL	CVS-Ø1250-18,5/4P	CVS-Ø1250-22/4P	CVS-Ø1250-30/4P	CVS-Ø1250-37/4P	CVS-Ø1250-45/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	18,5	22	30	37	45
CURRENT (A)	38	44	57	70	84
SPEED (rpm)	1460	1455	1460	1465	1465
AIR FLOW (m^3/h)	86000	93000	106000	122000	128000
SOUND PL (dB) 3m	74	79	79	82	82
WEIGHT (Kg)	333	345	380	467	515
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D

AXIAL
SMOKE F400 FANS

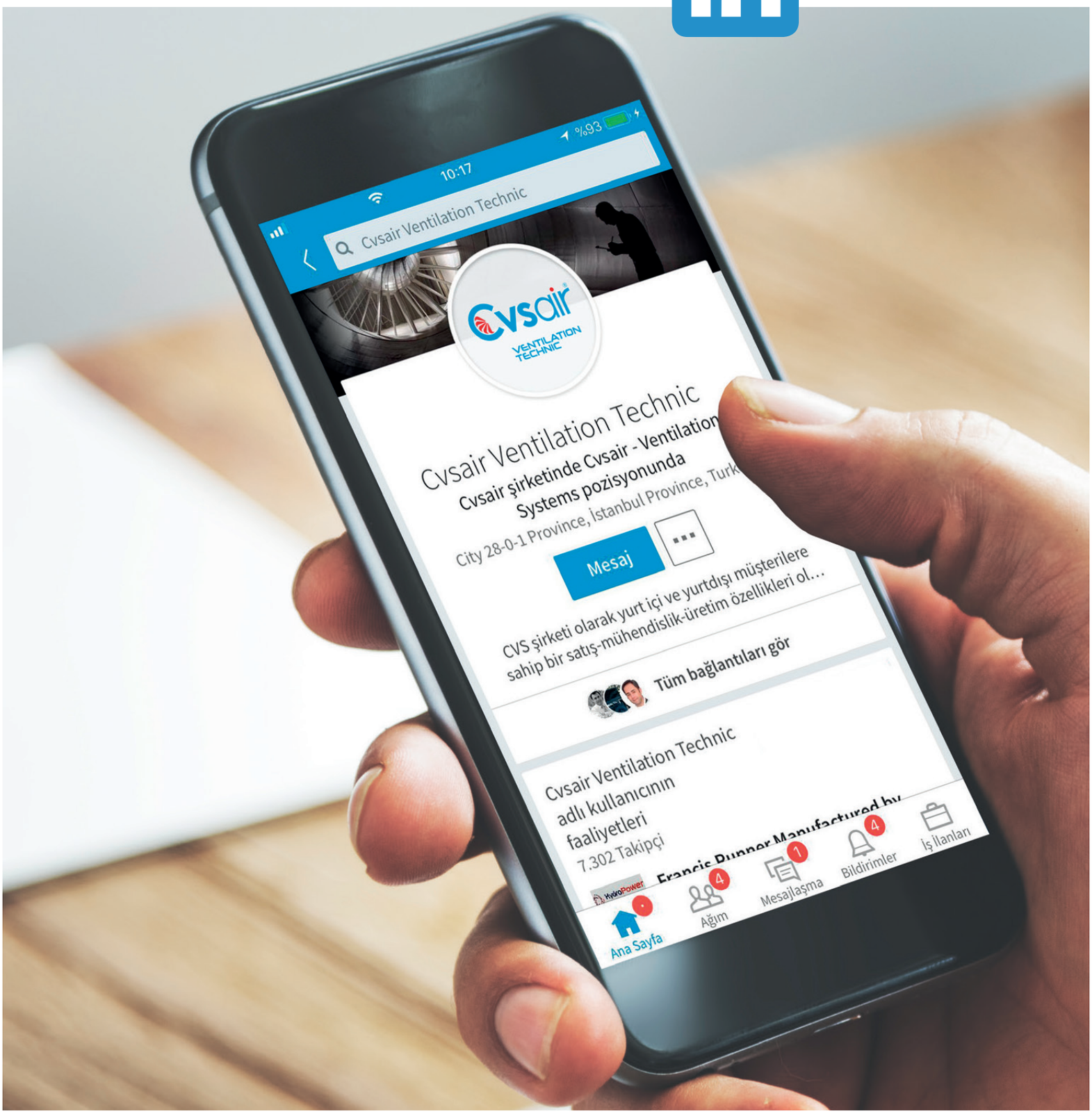
PERFORMANCES

MODEL	AIRFLOW (m³/h)						
	0 Pa	150 Pa	300 Pa	450 Pa	600 Pa	750 Pa	900 Pa
CVS-Ø400-0,55/2P F400	6000	5250	4000				
CVS-Ø400-0,75/2P F400	7000	6200	4900	2500			
CVS-Ø400-1,1/2P F400	8000	7300	5800				
CVS-Ø400-1,5/2P F400	9000	7800	6400				
CVS-Ø400-2,2/2P F400	10500	9300	7700				
CVS-Ø450-1,1/2P F400	9500	8500	6750				
CVS-Ø450-1,5/2P F400	11500	10200	8600	5600			
CVS-Ø450-2,2/2P F400	12500	11300	9600	7000			
CVS-Ø450-3/2P F400	14250	12700	10800				
CVS-Ø500-1,5/2P F400	11000	10500	8100	6100			
CVS-Ø500-2,2/2P F400	13000	12000	10200	8200			
CVS-Ø500-3/2P F400	15500	14200	12500	10600	6800		
CVS-Ø500-4/2P F400	17000	14900	14000	12000	8300		
CVS-Ø500-5,5/2P F400	20000	18200	16000	12800	10200		
CVS-Ø560-2,2/2P F400	14000	12600	10700	8750	5700		
CVS-Ø560-3/2P F400	17000	15600	14000	11800	8900		
CVS-Ø560-4/2P F400	20500	19000	17400	15200	12200		
CVS-Ø560-5,5/2P F400	23000	21400	19400	15300	14600		
CVS-Ø560-7,5/2P F400	26500	24000	22000	19700	17000		

PERFORMANCES

MODEL	AIRFLOW (m³/h)						
	0 Pa	150 Pa	300 Pa	450 Pa	600 Pa	750 Pa	900 Pa
CVS-Ø630-5,5/2P F400	25500	24000	21600	19000	15800		
CVS-Ø630-7,5/2P F400	30000	26000	24400	22800	21200	19400	17500
CVS-Ø630-11/2P F400	29400	27200	24800	22000	184000	13400	
CVS-Ø630-15/2P F400	31000	29400	27700	26000	24000	22000	19800
CVS-Ø630-18,5/2P F400	34250	32600	31000	29000	27000	24400	21700
CVS-Ø710-1,5/4P F400	19000	14800	7800				
CVS-Ø710-2,2/4P F400	23000	17900					
CVS-Ø710-3/4P F400	25000	20200					
CVS-Ø710-4/4P F400	28000	24600	19750				
CVS-Ø710-5,5/4P F400	30000	24000					
CVS-Ø800-2,2/4P F400	26000	20000					
CVS-Ø800-3/4P F400	30500	24500	13000				
CVS-Ø800-4/4P F400	34000	29000	23000				
CVS-Ø800-5,5/4P F400	38000	32300	20000				
CVS-Ø800-7,5/4P F400	40000	35500	30000				
CVS-Ø900-4/4P F400	40000	33000	24500				
CVS-Ø900-5,5/4P F400	44000	38000	30000				
CVS-Ø900-7,5/4P F400	47500	41500	32700				
CVS-Ø900-11/4P F400	52500	48000	42000	30000			
CVS-Ø900-15/4P F400	55000	50000	45500	35500			
CVS-Ø1000-7,5/4P F400	56000	50000	42500	27000			
CVS-Ø1000-11/4P F400	58000	53000	47500	38000			
CVS-Ø1000-15/4P F400	69500	62000	57000	50000			
CVS-Ø1000-18,5/4P F400	66000	64000	59600	50000			
CVS-Ø1000-22/4P F400	74000	67000	60000	48500			
CVS-Ø1120-15/4P F400	75000	69500	63000	55500	44000		
CVS-Ø1120-18,5/4P F400	81000	75500	69000	61500	50000		
CVS-Ø1120-22/4P F400	87000	82300	75000	67000	56000		
CVS-Ø1120-30/4P F400	98000	90000	82500	70000			
CVS-Ø1120-37/4P F400	108000	102000	94000	80000			
CVS-Ø1250-18,5/4P F400	86000	80000	73000	62000	46000		
CVS-Ø1250-22/4P F400	93000	87000	80000	73500	65000		
CVS-Ø1250-30/4P F400	106000	99000	90000	78000	60000		
CVS-Ø1250-37/4P F400	122000	115000	105000	93000	68000		
CVS-Ø1250-45/4P F400	128000	121000	114000	105000	92000		

Cvsair V



Cvsair®

www.cvsair.com.tr

Ventilation Technic / linkedin

VERTICAL AXIAL ROOF FANS WITH FLAP

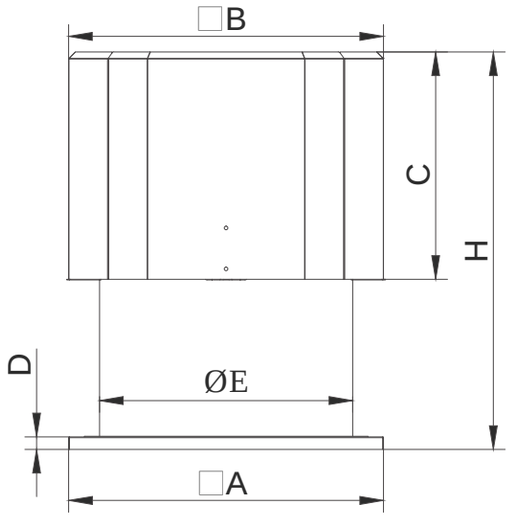
ENERGY EFFICIENT LONG LIFE

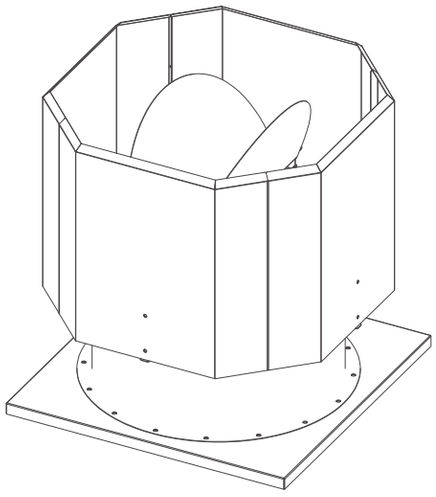
PRODUCT FEATURES

- Galvaniz sac üzeri elektrostatik fırın boyalı gövde Galvanised sheet metal with electrostatic oven drying case
- Aerofoil kesitli alüminyum kanatlar Aerofoil-sectioned aluminium blades
- En yüksek verim için ayarlanabilir kanat açısı Adjustable blade angles for maximum efficiency
- Frekans invertörü ile çalışmaya uygun trifaze motorlar Three-phased motors suitable to operate with frequency inverters
- Dış ortamda çalışmaya uygun Suitable to operative outdoor
- EN 12101-3 sertifikalı EN 12101-3 certificated
- Çatı tipi aksiyal fanlar duman tahliye gerektiren ortamlarda H izolasyon sınıfı motorlar ile EN12101-3 standardına göre ve F300, F400 sıcaklık dayanım sınıflarında sertifikalandırılmıştır. Egzoz kullanımlarına göre dizayn edilebilmektedir. Aksiyal fanlarda frekans konvertörü ile çalışmaya uygun trifaze motorlar kullanılmaktadır Roof type axial smoke exhaust fans with H class isolated motors, are certificated of F300 and F400 temperature resistance class according to EN-12101-3 to operate in where smoke extraction is required. Devices can be designed according to the usage for smoke extraction. Axial fans are equipped with three-phased motors suitable for operation with frequency inverters
- 60 Hz seçeneği mevcuttur 60 Hz option is available

TECHNICS

MODEL	CVS-RV-Ø400-0,55/2P	CVS-RV-Ø400-0,75/2P	CVS-RV-Ø400-1,1/2P	CVS-RV-Ø400-1,5/2P	CVS-RV-Ø400-2,2/2P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	0,55	0,75	1,1	1,5	2,2
CURRENT (A)	1,27	1,9	2,55	3,45	4,94
SPEED (rpm)	2780	2800	2800	2835	2840
AIR FLOW (m³/h)	6000	7000	8000	9000	10500
SOUND PL (dB) 3m	63	64	64	66	68
WIRING DIAGRAM	Y	Y	Y	Y	68





DIMENSIONS

MODEL	A	B	C	D	E	H
CVS-RV-Ø400	590	590	560	40	400	900
CVS-RV-Ø450	640	640	560	40	450	900
CVS-RV-Ø500	700	700	600	40	500	940
CVS-RV-Ø560	760	760	600	40	560	940
CVS-RV-Ø630	830	830	640	40	630	1180
CVS-RV-Ø710	910	910	640	40	710	1180
CVS-RV-Ø800	1000	1000	720	40	800	1260
CVS-RV-Ø900	1100	1100	820	40	900	1460
CVS-RV-Ø1000	1200	1200	820	40	1000	1460
CVS-RV-Ø1120	1320	1320	870	40	1120	1610
CVS-RV-Ø1250	1450	1450	920	40	1250	1660

VERTICAL AXIAL ROOF FANS WITH FLAP

TECHNICS

MODEL	CVS-RV-Ø450-1,1/2P	CVS-RV-Ø450-1,5/2P	CVS-RV-Ø450-2,2/2P	CVS-RV-Ø450-3/2P
VOLTAGE (V)	400	400	400	400
FREQUENCY (Hz)	50	50	50	50
POWER (kW)	1,1	1,5	2,2	3
CURRENT (A)	2,55	3,45	4,94	6,5
SPEED (rpm)	2800	2835	2840	2850
AIR FLOW (m³/h)	9500	11500	12500	14250
SOUND PL (dB) 3m	62	66	67	69
WIRING DIAGRAM	Y	Y	Y	Y

MODEL	CVS-RV-Ø500-1,5/2P	CVS-RV-Ø500-2,2/2P	CVS-RV-Ø500-3/2P	CVS-RV-Ø500-4/2P	CVS-RV-Ø500-5,5/2P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	1,5	2,2	3	4	5,5
CURRENT (A)	3,45	4,94	6,5	8,2	11,3
SPEED (rpm)	2835	2840	2850	2850	2870
AIR FLOW (m³/h)	11000	13000	15500	17000	20000
SOUND PL (dB) 3m	63	66	69	71	73
WIRING DIAGRAM	Y	Y	Y	D	D or Y-D

TECHNICS

MODEL	CVS-RV-Ø560-2,2/2P	CVS-RV-Ø560-3/2P	CVS-RV-Ø560-4/2P	CVS-RV-Ø560-5,5/2P	CVS-RV-Ø560-7,5/2P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	2,2	3	4	5,5	7,5
CURRENT (A)	4,94	6,5	8,2	11,3	15,4
SPEED (rpm)	2840	2850	2850	2870	2890
AIR FLOW (m³/h)	14000	17000	20500	23000	26500
SOUND PL (dB) 3m	65	68	71	73	75
WIRING DIAGRAM	Y	Y	D	D or Y-D	D or Y-D

MODEL	CVS-RV-Ø630-5,5/2P	CVS-RV-Ø630-7,5/2P	CVS-RV-Ø630-11/2P	CVS-RV-Ø630-15/2P	CVS-RV-Ø630-18,5/2P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	5,5	7,5	11	15	18,5
CURRENT (A)	11,3	15,4	22,4	28,5	35
SPEED (rpm)	2870	2890	2935	2940	2940
AIR FLOW (m³/h)	25500	30000	27500	31000	34250
SOUND PL (dB) 3m	72	76	77	83	85
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D

VERTICAL AXIAL ROOF FANS WITH FLAP

TECHNICS

MODEL	CVS-RV-Ø710-1,5/4P	CVS-RV-Ø710-2,2/4P	CVS-RV-Ø710-3/4P	CVS-RV-Ø710-4/4P	CVS-RV-Ø710-5,5/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	1,5	2,2	3	4	5,5
CURRENT (A)	3,6	5,2	6,8	8,6	11,8
SPEED (rpm)	1385	1400	1410	1425	1430
AIR FLOW (m³/h)	19000	23000	25000	28000	30000
SOUND PL (dB) 3m	65	67	69	71	71
WIRING DIAGRAM	Y	Y	Y	D	D or Y-D

MODEL	CVS-RV-Ø800-2,2/4P	CVS-RV-Ø800-3/4P	CVS-RV-Ø800-4/4P	CVS-RV-Ø800-5,5/4P	CVS-RV-Ø800-7,5/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	2,2	3	4	5,5	7,5
CURRENT (A)	5,2	6,8	8,6	11,8	15,8
SPEED (rpm)	1400	1410	1425	1430	1430
AIR FLOW (m³/h)	26000	30500	34000	38000	40000
SOUND PL (dB) 3m	67	69	71	73	73
WIRING DIAGRAM	Y	Y	D	D or Y-D	D or Y-D

TECHNICS

MODEL	CVS-RV-Ø900-4/4P	CVS-RV-Ø900-5,5/4P	CVS-RV-Ø900-7,5/4P	CVS-RV-Ø900-11/4P	CVS-RV-Ø900-15/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	4	5,5	7,5	11	15
CURRENT (A)	8,6	11,8	15,8	22,6	30,5
SPEED (rpm)	1425	1430	1430	1455	1460
AIR FLOW (m³/h)	40000	44000	47500	52500	55000
SOUND PL (dB) 3m	70	71	73	76	76
WIRING DIAGRAM	D	D or Y-D	D or Y-D	D or Y-D	D or Y-D

MODEL	CVS-RV-Ø1000-7,5/4P	CVS-RV-Ø1000-11/4P	CVS-RV-Ø1000-15/4P	CVS-RV-Ø1000-18,5/4P	CVS-RV-Ø1000-22/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	7,5	11	15	18,5	22
CURRENT (A)	15,8	22,6	30,5	38	44
SPEED (rpm)	1430	1455	1460	1460	1455
AIR FLOW (m³/h)	56000	58000	69500	66000	74000
SOUND PL (dB) 3m	73	74	78	77	79
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D

VERTICAL AXIAL ROOF FANS WITH FLAP

TECHNICS

MODEL	CVS-RV-Ø1120-15/4P	CVS-RV-Ø1120-18,5/4P	CVS-RV-Ø1120-22/4P	CVS-RV-Ø1120-30/4P	CVS-RV-Ø1120-37/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	15	18,5	22	30	37
CURRENT (A)	30,5	38	44	57	70
SPEED (rpm)	1460	1460	1455	1460	1465
AIR FLOW (m³/h)	75000	81000	87000	98000	108000
SOUND PL (dB) 3m	76	78	79	81	83
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D

MODEL	CVS-RV-Ø1250-18,5/4P	CVS-RV-Ø1250-22/4P	CVS-RV-Ø1250-30/4P	CVS-RV-Ø1250-37/4P	CVS-RV-Ø1250-45/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	18,5	22	30	37	45
CURRENT (A)	38	44	57	70	84
SPEED (rpm)	1460	1455	1460	1465	1465
AIR FLOW (m³/h)	86000	93000	106000	122000	128000
SOUND PL (dB) 3m	74	79	79	82	82
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D

AXIAL FAN ARTS

A.F.A

VERTICAL AXIAL ROOF FANS WITH FLAP

PERFORMANCES

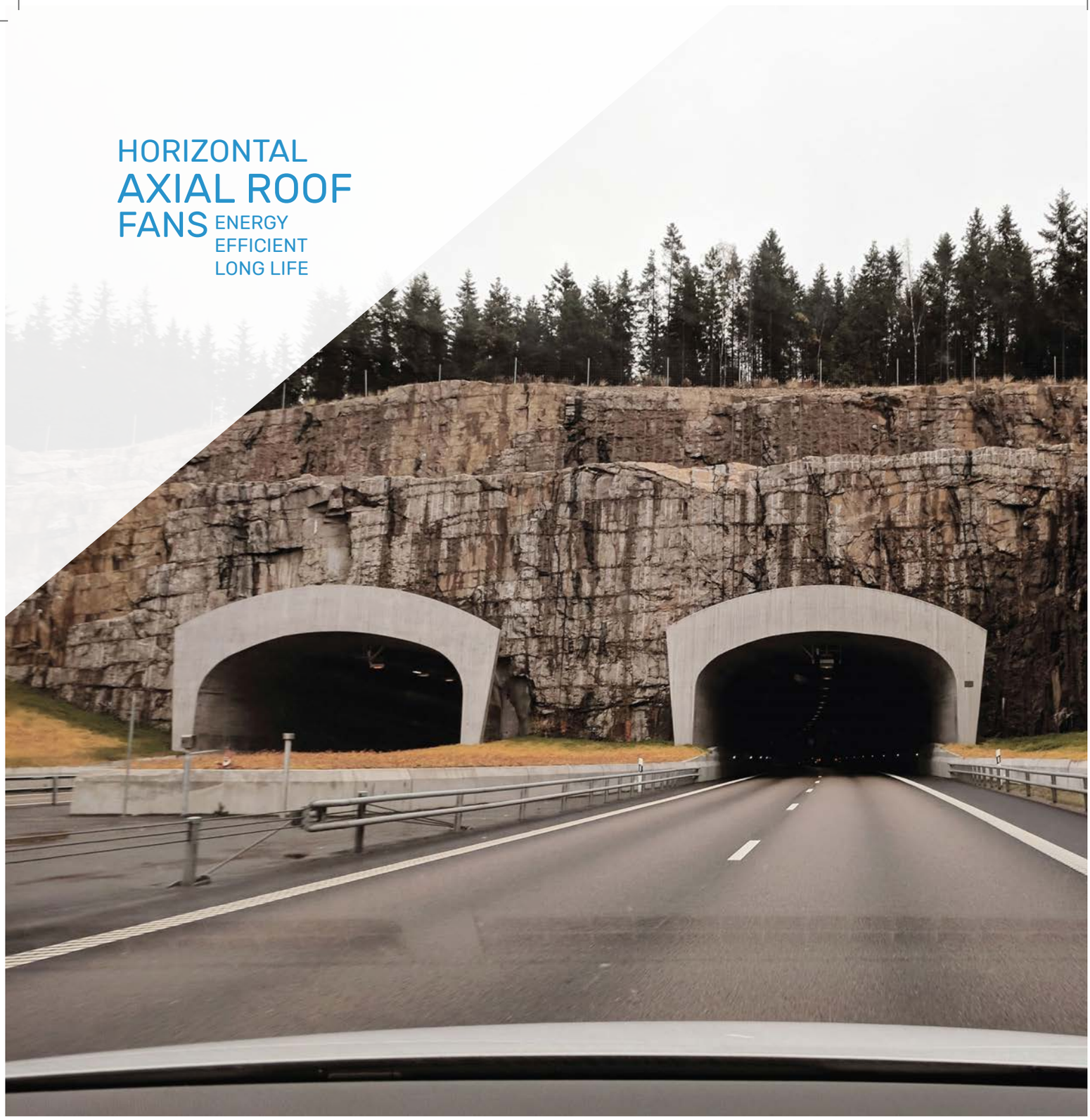
MODEL	AIRFLOW (m³/h)						
	0 Pa	150 Pa	300 Pa	450 Pa	600 Pa	750 Pa	900 Pa
CVS-RV-Ø400-0,55/2P F300	6000	5250	4000				
CVS-RV-Ø400-0,75/2P F300	7000	6200	4900	2500			
CVS-RV-Ø400-1,1/2P F300	8000	7300	5800				
CVS-RV-Ø400-1,5/2P F300	9000	7800	6400				
CVS-RV-Ø400-2,2/2P F300	10500	9300	7700				
CVS-RV-Ø450-1,1/2P F300	9500	8500	6750				
CVS-RV-Ø450-1,5/2P F300	11500	10200	8600	5600			
CVS-RV-Ø450-2,2/2P F300	12500	11300	9600	7000			
CVS-RV-Ø450-3/2P F300	14250	12700	10800				
CVS-RV-Ø500-1,5/2P F300	11000	10500	8100	6100			
CVS-RV-Ø500-2,2/2P F300	13000	12000	10200	8200			
CVS-RV-Ø500-3/2P F300	15500	14200	12500	10600	6800		
CVS-RV-Ø500-4/2P F300	17000	14900	14000	12000	8300		
CVS-RV-Ø500-5,5/2P F300	20000	18200	16000	12800	10200		
CVS-RV-Ø560-2,2/2P F300	14000	12600	10700	8750	5700		
CVS-RV-Ø560-3/2P F300	17000	15600	14000	11800	8900		
CVS-RV-Ø560-4/2P F300	20500	19000	17400	15200	12200		
CVS-RV-Ø560-5,5/2P F300	23000	21400	19400	15300	14600		
CVS-RV-Ø560-7,5/2P F300	26500	24000	22000	19700	17000		

PERFORMANCES

MODEL	AIRFLOW (m³/h)						
	0 Pa	150 Pa	300 Pa	450 Pa	600 Pa	750 Pa	900 Pa
CVS-RV-Ø630-5,5/2P F300	25500	24000	21600	19000	15800		
CVS-RV-Ø630-7,5/2P F300	30000	26000	24400	22800	21200	19400	17500
CVS-RV-Ø630-11/2P F300	29400	27200	24800	22000	184000	13400	
CVS-RV-Ø630-15/2P F300	31000	29400	27700	26000	24000	22000	19800
CVS-RV-Ø630-18,5/2P F300	34250	32600	31000	29000	27000	24400	21700
CVS-RV-Ø710-1,5/4P F300	19000	14800	7800				
CVS-RV-Ø710-2,2/4P F300	23000	17900					
CVS-RV-Ø710-3/4P F300	25000	20200					
CVS-RV-Ø710-4/4P F300	28000	24600	19750				
CVS-RV-Ø710-5,5/4P F300	30000	24000					
CVS-RV-Ø800-2,2/4P F300	26000	20000					
CVS-RV-Ø800-3/4P F300	30500	24500	13000				
CVS-RV-Ø800-4/4P F300	34000	29000	23000				
CVS-RV-Ø800-5,5/4P F300	38000	32300	20000				
CVS-RV-Ø800-7,5/4P F300	40000	35500	30000				
CVS-RV-Ø900-4/4P F300	40000	33000	24500				
CVS-RV-Ø900-5,5/4P F300	44000	38000	30000				
CVS-RV-Ø900-7,5/4P F300	47500	41500	32700				
CVS-RV-Ø900-11/4P F300	52500	48000	42000	30000			
CVS-RV-Ø900-15/4P F300	55000	50000	45500	35500			
CVS-RV-Ø1000-7,5/4P F300	56000	50000	42500	27000			
CVS-RV-Ø1000-11/4P F300	58000	53000	47500	38000			
CVS-RV-Ø1000-15/4P F300	69500	62000	57000	50000			
CVS-RV-Ø1000-18,5/4P F300	66000	64000	59600	50000			
CVS-RV-Ø1000-22/4P F300	74000	67000	60000	48500			
CVS-RV-Ø1120-15/4P F300	75000	69500	63000	55500	44000		
CVS-RV-Ø1120-18,5/4P F300	81000	75500	69000	61500	50000		
CVS-RV-Ø1120-22/4P F300	87000	82300	75000	67000	56000		
CVS-RV-Ø1120-30/4P F300	98000	90000	82500	70000			
CVS-RV-Ø1120-37/4P F300	108000	102000	94000	80000			
CVS-RV-Ø1250-18,5/4P F300	86000	80000	73000	62000	46000		
CVS-RV-Ø1250-22/4P F300	93000	87000	80000	73500	65000		
CVS-RV-Ø1250-30/4P F300	106000	99000	90000	78000	60000		
CVS-RV-Ø1250-37/4P F300	122000	115000	105000	93000	68000		
CVS-RV-Ø1250-45/4P F300	128000	121000	114000	105000	92000		

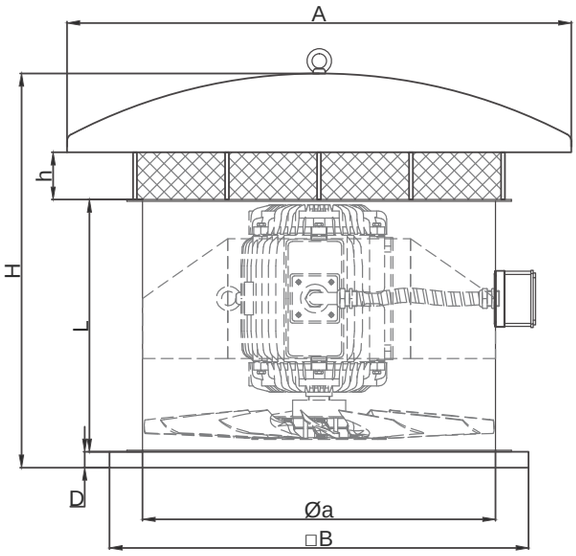
HORIZONTAL AXIAL ROOF FANS

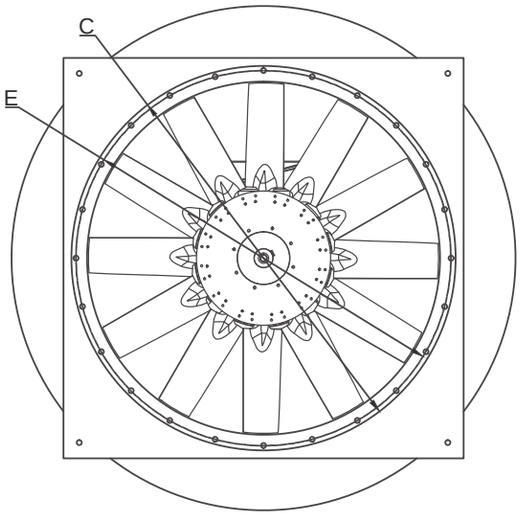
ENERGY EFFICIENT LONG LIFE



PRODUCT FEATURES

- Sıcak daldırma galvanizli gövde Hot dip galvanised case
- Aerofoil kesitli alüminyum kanatlar Aerofoil-sectioned aluminium blades
- En yüksek verim için ayarlanabilir kanat açısı Adjustable blade angles for maximum efficiency
- Frekans invertörü ile çalışmaya uygun trifaze motorlar (F300) Three-phased motors suitable to operate with frequency inverters (F300)
- Çift devirli motor seçeneği Double speed motor option
- Yatay atışlı, aksiyal pervaneli Horizontal discharge with axial impeller
- En 12101-3 standardına uygun, sertifikalı Certificated according to EN 12101-3
- 60 Hz seçeneği mevcuttur 60 Hz option is available





DIMENSIONS

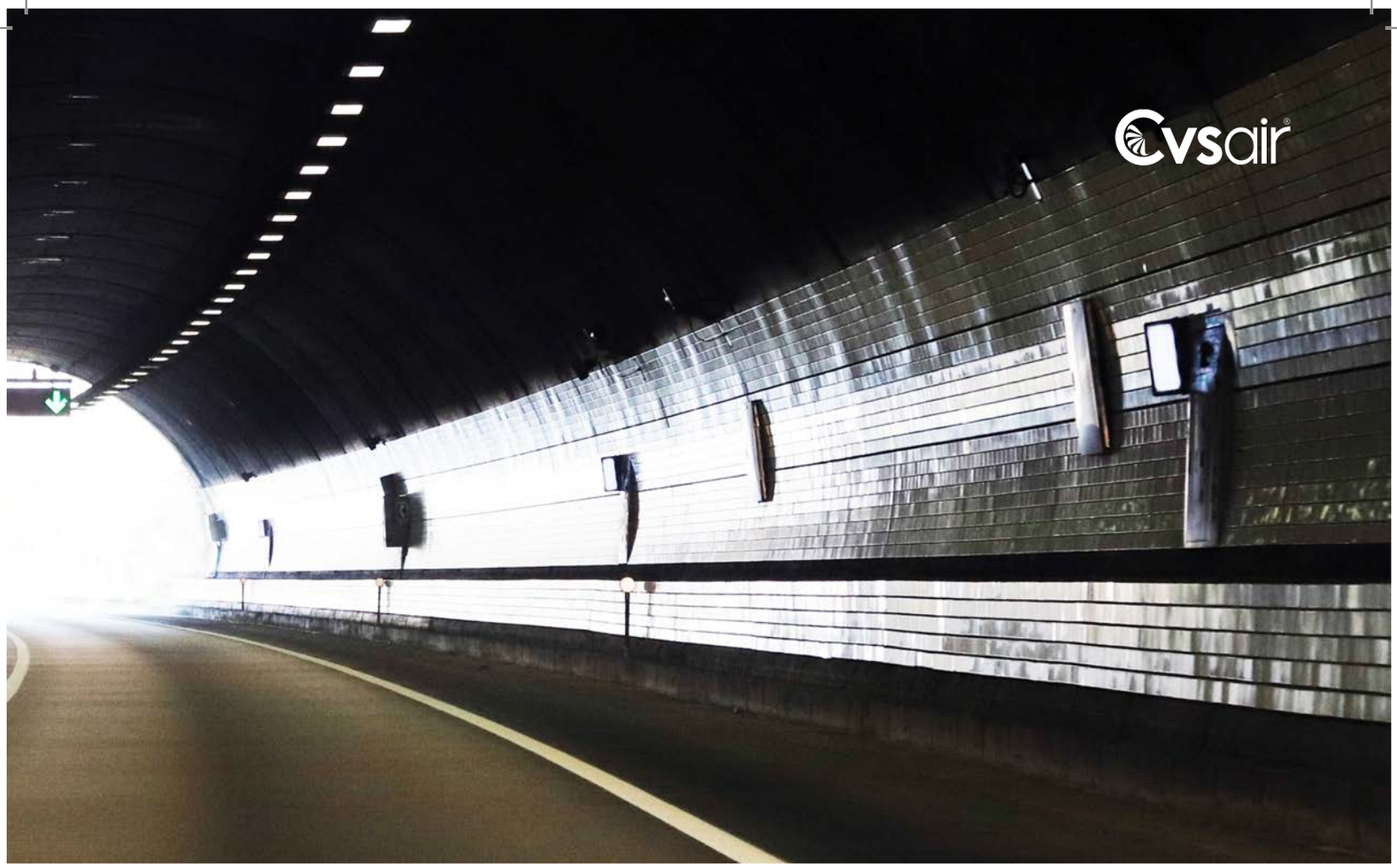
MODEL	A	a	h	H	L	D	C	E	B
CVS-RH-Ø400	Ø560	Ø400	89	639	500	50	Ø480	Ø450	550
CVS-RH-Ø450	Ø630	Ø450	100	650	500	50	Ø530	Ø500	590
CVS-RH-Ø500	Ø710	Ø500	113	663	500	50	Ø600	Ø560	740
CVS-RH-Ø560	Ø800	Ø560	125	675	500	50	Ø660	Ø620	780
CVS-RH-Ø630	Ø900	Ø630	140	890	700	50	Ø730	Ø690	780
CVS-RH-Ø710	Ø1000	Ø710	156	906	700	50	Ø810	Ø770	910
CVS-RH-Ø800	Ø1120	Ø800	178	928	700	50	Ø900	Ø860	960
CVS-RH-Ø900	Ø1250	Ø900	200	1050	800	50	Ø1000	Ø970	1080
CVS-RH-Ø1000	Ø1400	Ø1000	225	1075	800	50	Ø1100	Ø1070	1150
CVS-RH-Ø1120	Ø1600	Ø1120	250	1200	900	50	Ø1220	Ø1190	1350
CVS-RH-Ø1250	Ø1800	Ø1250	310	1260	900	50	Ø1370	Ø1320	1500

HORIZONTAL
AXIAL ROOF FANS

TECHNICS

MODEL	CVS-RH-Ø400-0,55/2P	CVS-RH-Ø400-0,75/2P	CVS-RH-Ø400-1,1/2P	CVS-RH-Ø400-1,5/2P	CVS-RH-Ø400-2,2/2P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	0,55	0,75	1,1	1,5	2,2
CURRENT (A)	1,27	1,9	2,55	3,45	4,94
SPEED (rpm)	2780	2800	2800	2835	2840
AIR FLOW (m³/h)	6000	7000	8000	9000	10500
SOUND PL (dB) 3m	63	64	64	66	68
WIRING DIAGRAM	Y	Y	Y	Y	Y

MODEL	CVS-RH-Ø450-1,1/2P	CVS-RH-Ø450-1,5/2P	CVS-RH-Ø450-2,2/2P	CVS-RH-Ø450-3/2P
VOLTAGE (V)	400	400	400	400
FREQUENCY (Hz)	50	50	50	50
POWER (kW)	1,1	1,5	2,2	3
CURRENT (A)	2,55	3,45	4,94	6,5
SPEED (rpm)	2800	2835	2840	2850
AIR FLOW (m³/h)	9500	11500	12500	14250
SOUND PL (dB) 3m	62	66	67	69
WIRING DIAGRAM	Y	Y	Y	Y



TECHNICS

MODEL	CVS-RH-Ø500-1,5/2P	CVS-RH-Ø500-2,2/2P	CVS-RH-Ø500-3/2P	CVS-RH-Ø500-4/2P	CVS-RH-Ø500-5,5/2P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (W)	1,5	2,2	3	4	5,5
CURRENT (A)	3,45	4,94	6,5	8,2	11,3
SPEED (rpm)	2835	2840	2850	2850	2870
AIR FLOW (m³/h)	11000	13000	15500	17000	20000
SOUND PL (dB) 3m	63	66	69	71	73
WIRING DIAGRAM	Y	Y	Y	Y	D or Y-D

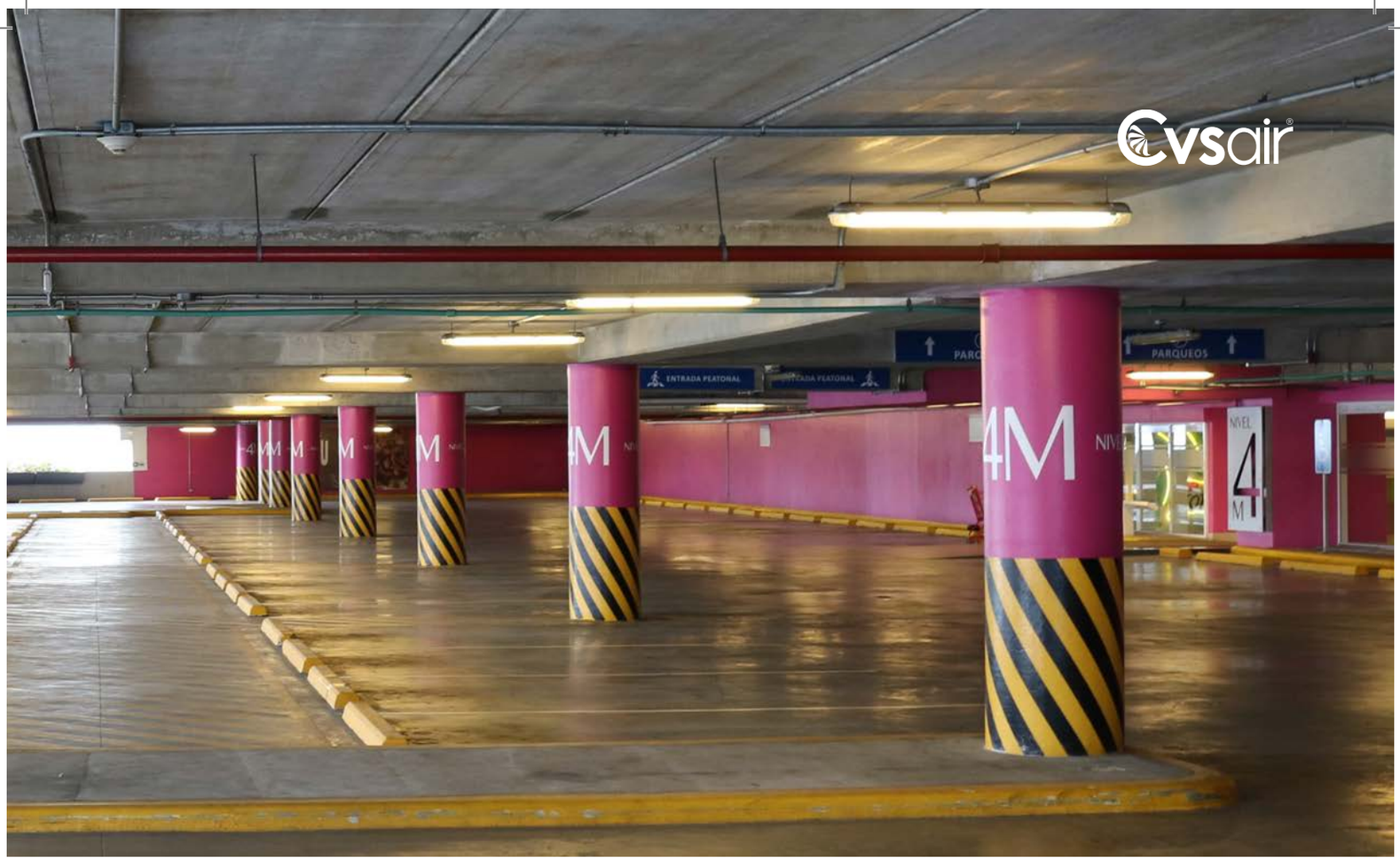
MODEL	CVS-RH-Ø560-2,2/2P	CVS-RH-Ø560-3/2P	CVS-RH-Ø560-4/2P	CVS-RH-Ø560-5,5/2P	CVS-RH-Ø560-7,5/2P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (W)	2,2	3	4	5,5	7,5
CURRENT (A)	4,94	6,5	8,2	11,3	15,4
SPEED (rpm)	2840	2850	2850	2870	2890
AIR FLOW (m³/h)	14000	17000	20500	23000	26500
SOUND PL (dB) 3m	65	68	71	73	75
WIRING DIAGRAM	Y	Y	Y	D or Y-D	D or Y-D

HORIZONTAL
AXIAL ROOF FANS

TECHNICS

MODEL	CVS-RH-Ø630-5,5/2P	CVS-RH-Ø630-7,5/2P	CVS-RH-Ø630-11/2P	CVS-RH-Ø630-15/2P	CVS-RH-Ø630-18,5/2P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (W)	5,5	7,5	11	15	18,5
CURRENT (A)	11,3	15,4	22,4	28,5	35
SPEED (rpm)	2870	2890	2935	2940	2940
AIR FLOW (m³/h)	25500	30000	27500	31000	34250
SOUND PL (dB) 3m	72	76	77	83	85
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D

MODEL	CVS-RH-Ø710-1,5/4P	CVS-RH-Ø710-2,2/4P	CVS-RH-Ø710-3/4P	CVS-RH-Ø710-4/4P	CVS-RH-Ø710-5,5/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (W)	1,5	2,2	3	4	5,5
CURRENT (A)	3,6	5,2	6,8	8,6	11,8
SPEED (rpm)	1385	1400	1410	1425	1430
AIR FLOW (m³/h)	19000	23000	25000	28000	30000
SOUND PL (dB) 3m	65	67	69	71	71
WIRING DIAGRAM	Y	Y	Y	Y	D or Y-D



TECHNICS

MODEL	CVS-RH-Ø800-2,2/4P	CVS-RH-Ø800-3/4P	CVS-RH-Ø800-4/4P	CVS-RH-Ø800-5,5/4P	CVS-RH-Ø800-7,5/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (W)	2,2	3	4	5,5	7,5
CURRENT (A)	5,2	6,8	8,6	11,8	15,8
SPEED (rpm)	1400	1410	1425	1430	1430
AIR FLOW (m³/h)	26000	30500	34000	38000	40000
SOUND PL (dB) 3m	67	69	71	73	73
WIRING DIAGRAM	Y	Y	Y	D or Y-D	D or Y-D

MODEL	CVS-RH-Ø900-4/4P	CVS-RH-Ø900-5,5/4P	CVS-RH-Ø900-7,5/4P	CVS-RH-Ø900-11/4P	CVS-RH-Ø900-15/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (W)	4	5,5	7,5	11	15
CURRENT (A)	8,6	11,8	15,8	22,6	30,5
SPEED (rpm)	1425	1430	1430	1455	1460
AIR FLOW (m³/h)	40000	44000	47500	52500	55000
SOUND PL (dB) 3m	70	71	73	76	76
WIRING DIAGRAM	Y	D or Y-D	D or Y-D	D or Y-D	D or Y-D

HORIZONTAL
AXIAL ROOF FANS

TECHNICS

MODEL	CVS-RH-Ø1000-7,5/4P	CVS-RH-Ø1000-11/4P	CVS-RH-Ø1000-15/4P	CVS-RH-Ø1000-18,5/4P	CVS-RH-Ø1000-22/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (W)	7,5	11	15	18,5	22
CURRENT (A)	15,8	22,6	30,5	38	44
SPEED (rpm)	1430	1455	1460	1460	1455
AIR FLOW (m³/h)	56000	58000	69500	66000	74000
SOUND PL (dB) 3m	73	74	78	77	79
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D

MODEL	CVS-RH-Ø1120-15/4P	CVS-RH-Ø1120-18,5/4P	CVS-RH-Ø1120-22/4P	CVS-RH-Ø1120-30/4P	CVS-RH-Ø1120-37/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (W)	15	18,5	22	30	37
CURRENT (A)	30,5	38	44	57	70
SPEED (rpm)	1460	1460	1455	1460	1465
AIR FLOW (m³/h)	75000	81000	87000	98000	108000
SOUND PL (dB) 3m	76	78	79	81	83
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D

TECHNICS

MODEL	CVS-RH-Ø1250-18,5/4P	CVS-RH-Ø1250-22/4P	CVS-RH-Ø1250-30/4P	CVS-RH-Ø1250-37/4P	CVS-RH-Ø1250-45/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (W)	18,5	22	30	37	45
CURRENT (A)	38	44	57	70	84
SPEED (rpm)	1460	1455	1460	1465	1465
AIR FLOW (m³/h)	86000	93000	106000	122000	128000
SOUND PL (dB) 3m	74	79	79	82	82
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D

HORIZONTAL
AXIAL ROOF FANS

PERFORMANCES

MODEL	AIRFLOW (m³/h)						
	0 Pa	150 Pa	300 Pa	450 Pa	600 Pa	750 Pa	900 Pa
CVS-RH-Ø400-0,55/2P	6000	5250	4000				
CVS-RH-Ø400-0,75/2P	7000	6200	4900	2500			
CVS-RH-Ø400-1,1/2P	8000	7300	5800				
CVS-RH-Ø400-1,5/2P	9000	7800	6400				
CVS-RH-Ø400-2,2/2P	10500	9300	7700				
CVS-RH-Ø450-1,1/2P	9500	8500	6750				
CVS-RH-Ø450-1,5/2P	11500	10200	8600	5600			
CVS-RH-Ø450-2,2/2P	12500	11300	9600	7000			
CVS-RH-Ø450-3/2P	14250	12700	10800				
CVS-RH-Ø500-1,5/2P	11000	10500	8100	6100			
CVS-RH-Ø500-2,2/2P	13000	12000	10200	8200			
CVS-RH-Ø500-3/2P	15500	14200	12500	10600	6800		
CVS-RH-Ø500-4/2P	17000	14900	14000	12000	8300		
CVS-RH-Ø500-5,5/2P	20000	18200	16000	12800	10200		
CVS-RH-Ø560-2,2/2P	14000	12600	10700	8750	5700		
CVS-RH-Ø560-3/2P	17000	15600	14000	11800	8900		
CVS-RH-Ø560-4/2P	20500	19000	17400	15200	12200		
CVS-RH-Ø560-5,5/2P	23000	21400	19400	15300	14600		
CVS-RH-Ø560-7,5/2P	26500	24000	22000	19700	17000		

PERFORMANCES

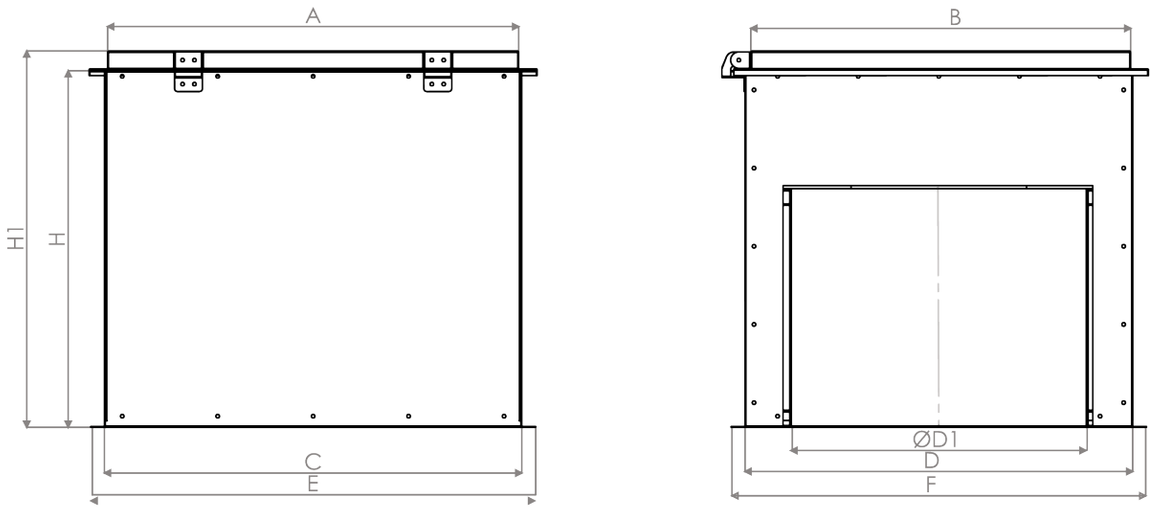
MODEL	AIRFLOW (m³/h)						
	0 Pa	150 Pa	300 Pa	450 Pa	600 Pa	750 Pa	900 Pa
CVS-RH-Ø630-5,5/2P	25500	24000	21600	19000	15800		
CVS-RH-Ø630-7,5/2P	30000	26000	24400	22800	21200	19400	17500
CVS-RH-Ø630-11/2P	29400	27200	24800	22000	184000	13400	
CVS-RH-Ø630-15/2P	31000	29400	27700	26000	24000	22000	19800
CVS-RH-Ø630-18,5/2P	34250	32600	31000	29000	27000	24400	21700
CVS-RH-Ø710-1,5/4P	19000	14800	7800				
CVS-RH-Ø710-2,2/4P	23000	17900					
CVS-RH-Ø710-3/4P	25000	20200					
CVS-RH-Ø710-4/4P	28000	24600	19750				
CVS-RH-Ø710-5,5/4P	30000	24000					
CVS-RH-Ø800-2,2/4P	26000	20000					
CVS-RH-Ø800-3/4P	30500	24500	13000				
CVS-RH-Ø800-4/4P	34000	29000	23000				
CVS-RH-Ø800-5,5/4	38000	32300	20000				
CVS-RH-Ø800-7,5/4P	40000	35500	30000				
CVS-RH-Ø900-4/4P	40000	33000	24500				
CVS-RH-Ø900-5,5/4P	44000	38000	30000				
CVS-RH-Ø900-7,5/4P	47500	41500	32700				
CVS-RH-Ø900-11/4P	52500	48000	42000	30000			
CVS-RH-Ø900-15/4P	55000	50000	45500	35500			
CVS-RH-Ø1000-7,5/4P	56000	50000	42500	27000			
CVS-RH-Ø1000-11/4P	58000	53000	47500	38000			
CVS-RH-Ø1000-15/4P	69500	62000	57000	50000			
CVS-RH-Ø1000-18,5/4P	66000	64000	59600	50000			
CVS-RH-Ø1000-22/4P	74000	67000	60000	48500			
CVS-RH-Ø1120-15/4P	75000	69500	63000	55500	44000		
CVS-RH-Ø1120-18,5/4P	81000	75500	69000	61500	50000		
CVS-RH-Ø1120-22/4P	87000	82300	75000	67000	56000		
CVS-RH-Ø1120-30/4P	98000	90000	82500	70000			
CVS-RH-Ø1120-37/4P	108000	102000	94000	80000			
CVS-RH-Ø1250-18,5/4P	86000	80000	73000	62000	46000		
CVS-RH-Ø1250-22/4P	93000	87000	80000	73500	65000		
CVS-RH-Ø1250-30/4P	106000	99000	90000	78000	60000		
CVS-RH-Ø1250-37/4P	122000	115000	105000	93000	68000		
CVS-RH-Ø1250-45/4P	128000	121000	114000	105000	92000		

AXIAL ROOF FANS WITH MOTORISED DAMPER

ENERGY EFFICIENT LONG LIFE

PRODUCT FEATURES

- Galvaniz çelik gövde Galvanized steel body
- Motorlu açma kolları IP65 Motorised opening arms IP65
- Isı izolasyonlu gövde Thermal insulation on body
- Su sızdırmaz gövde tasarımı Waterproof body design
- EN 12101-3 sertifikalı F300 ve F400 alternatifler EN 12101-3 certified F300 and F400 alternatives



TECHNICAL SPECIFICATION

MODEL	A	B	C	D	ØD1	E	F	H	H1
MRF-400	1100	990	1022	920	400	1100	1000	1200	1260
MRF-450	1100	990	1022	920	450	1100	1000	1200	1260
MRF-500	1100	990	1022	920	500	1100	1000	1200	1260
MRF-560	1100	990	1022	920	560	1100	1000	1200	1260
MRF-630	1295	1195	1222	1122	630	1300	1200	1200	1260
MRF-800	1295	1195	1222	1122	800	1300	1200	1200	1260
MRF-900	1507	1400	1420	1320	900	1500	1400	1260	1207
MRF-1000	1507	1400	1420	1320	1000	1500	1400	1260	1207
MRF-1120	1507	1400	1420	1320	1120	1500	1400	1260	1207
MRF-1250	1707	1592	1620	1520	1250	1700	1600	1465	1407


Cvsair®
AXIAL FANS

AXIAL FAN ART

www.cvsair.com.tr

Domestic Fans

CIRCULAR DUCT TYPE FANS

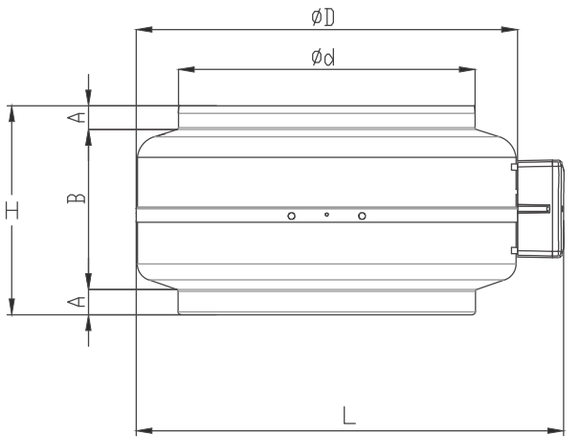
ENERGY EFFICIENT LONG LIFE

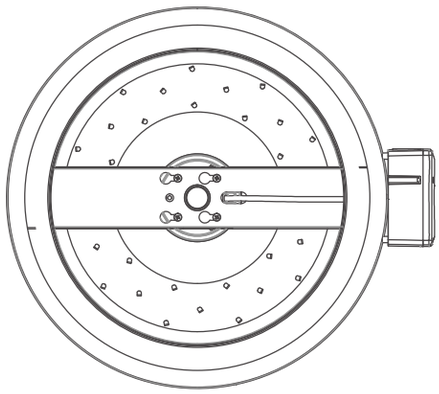
PRODUCT FEATURES

- Metal gövde Metal casing
- Uzun ömürlü rulmanlar Long-lasting bearing
- IP44 koruma sınıfına uygun motor IP44 protection class motor
- Yüksek verimli geriye eğik kanatlı pervane High efficiency backward impeller
- Yuvarlak kanal tipi fanlar, yüksek kalite galvaniz çelik sacdan üretilmektedir Circular inline duct fans are producing from high quality galvanized sheet
- Montaj yönüne bağlı olarak aspirasyon veya ventilasyonda kullanılabilirler It can be used for both extraction and supply sides,according to route
- Dikey veya yatay monte edilebilirler It can be installed both vertical and horizontal position
- İstenildiği durumda tüm modelleri için opsiyonel, hız anahtarı ile debi kontrolü yapılabilmektedir It is suitable for speed and airflow control via controllers
- İsteğe bağlı olarak yüksek ısıya karşı termikli koruma Optionally, thermic protection can be provided

TECHNICS

	D 150	D 200	D 250	D 315
VOLTAGE (V)	230	230	230	230
FREQUENCY (Hz)	50	50	50	50
POWER (W)	110	115	150	187
CURRENT(A)	0,17	0,66	0,8	1,5
AIR FLOW (m^3/h)	650	1000	1200	1900
SPEED (rpm)	2150	2570	2600	2480
WEIGHT (kg)	4,8	5	5,5	6,9





DIMENSIONS

MODEL	ØD	Ød	A	B	H	L
D-150	322	149	30	168	228	370
D-200	344	199	27	179	233	392
D-250	345	248	30	158	218	393
D-315	400	312	26	168	220	448

PERFORMANCES

MODEL	AIR FLOW (m³/h)				
	0 Pa	150 Pa	300 Pa	450 Pa	600 Pa
D 150	650	460	200		
D 200	1000	730	530	250	
D 250	1200	870	600	260	
D 315	1900	1630	1340	920	500

RECTANGULAR DUCT TYPE FANS

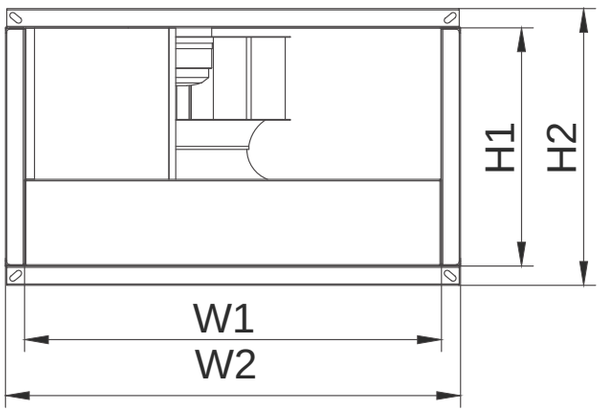
ENERGY EFFICIENT LONG LIFE

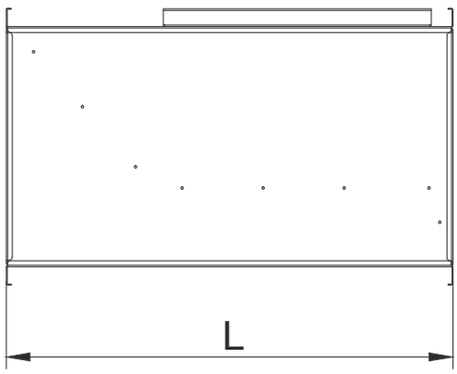
PRODUCT FEATURES

- Galvaniz sac üzeri elektrostatik fırın boyalı gövde Galvanised sheet metal with electrostatic oven drying case
- Bakım gerektirmeyen, uzun ömürlü rulmanlar Maintenance-free, long-lasting ball bearing
- IP54 koruma sınıfı, termik korumalı, monofaze motorlar IP54 protection class, thermic protection, monophase motor
- Yüksek verimli geriye eğik pervane High efficiency backward-curved impeller
- Montaj yönüne bağlı olarak aspirasyon veya ventilasyonda kullanılabilirler It can be used for both extraction and supply according to the direction of installation
- Mahallerde uygulanacak kanallara hızlı ve kolay montaj edilebilirler Easy and speed installation process
- Dikdörtgen kanal tipi fanlar dikey veya yatay monte edilebilirler It can be installed both vertical and horizontal position
- Opsiyonel, hız anahtarı ile debi kontrolü yapılabilmektedir Optional airflow control with speed controller
- Talep edilmesi durumunda susturucu ilavesi de yapılabilir Silencer is also available upon request

TECHNICS

	DR-50*25	DR-60*35	DR-70*40	DR-80*50
VOLTAGE (V)	230	230	230	230
FREQUENCY (Hz)	50	50	50	50
POWER (W)	230	210	430	800
CURRENT(A)	1,1	1	1,5	3,5
AIR FLOW (m^3/h)	1800	2520	4100	6000
SPEED (rpm)	2450	1400	1380	1350
SOUND PRESSURE LEVEL (dB) A 3m	61	52	55	56
WEIGHT (KG)	17	35	45	65





DIMENSIONS

MODEL	H1	H2	W1	W2	L
DR-50*25	250	315	500	565	500
DR-60*35	350	415	600	665	600
DR-70*40	400	465	700	765	750
DR-80*50	500	565	800	865	880

PERFORMANCES

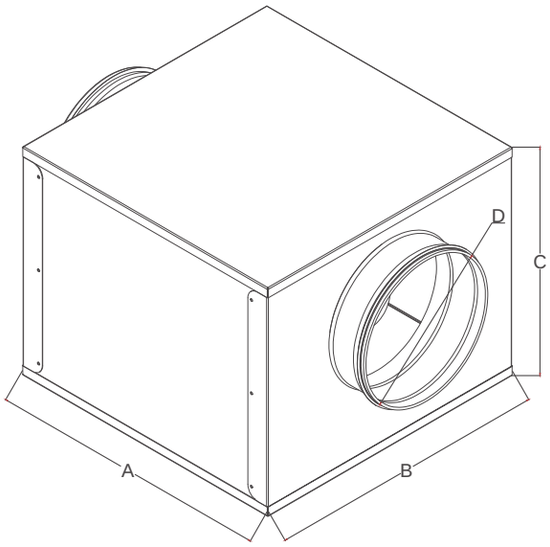
MODEL	AIR FLOW (m^3/h)				
	0 Pa	150 Pa	300 Pa	450 Pa	600 Pa
DR-50*25	1800	1500	1100	600	200
DR-60*35	2520	1870	700		
DR-70*40	4100	3480	2450	500	
DR-80*50	6000	5050	3950	2100	

PRODUCT FEATURES

- Özel akustik izolasyonlu gövde Unique acoustic isolated body
- Galvaniz sac üzeri elektrostatik fırın boyalı gövde Galvanised sheet metal with electrostatic oven drying case
- Kendinden üç hızlı motor Three speed motor
- Öne eğik sık kanatlı çift emişli pervane Forward curved impellers with double suction
- On-off bakım anahtarlı On-off maintenance switch
- Düşük ses seviyesi Low sound level

TECHNICS

MODEL	AQUSTICA-7-7/3S	AQUSTICA-9-9/3S	AQUSTICA-10-10/3S	AQUSTICA-12-12/3S
VOLTAGE (V)	230	230	230	230
FREQUENCY (Hz)	50	50	50	50
POWER (W)	150	450	550	750
CURRENT (A)	1,44	5	4,9	5,9
SPEED (rpm)	1135	1048	1125	875
AIR FLOW (m³/h)	1600	3100	2800	4050
SOUND PL (dB)A 3m	58	63	60	58



DIMENSIONS

MODEL	A	B	C	ØD
AQUSTICA-7-7/3S	500	500	400	250
AQUSTICA-9-9/3S	500	600	500	300
AQUSTICA-10-10/3S	550	630	550	355
AQUSTICA-12-12/3S	650	720	650	400

PERFORMANCES

	DEBI (m^3/h)						
MODEL	50 Pa	100 Pa	150 Pa	200 Pa	300 Pa	350 Pa	400 Pa
AQUSTICA-7-7/3S	1.600	1.400	1.000	-	-	-	-
AQUSTICA-9-9/3S	3.100	3.000	2.950	2.800	2.350	-	-
AQUSTICA-10-10/3S	-	-	-	-	3.050	2.800	2.500
AQUSTICA-12-12/3S	-	-	-	-	4.000	-	-

VERTICAL ROOF FANS

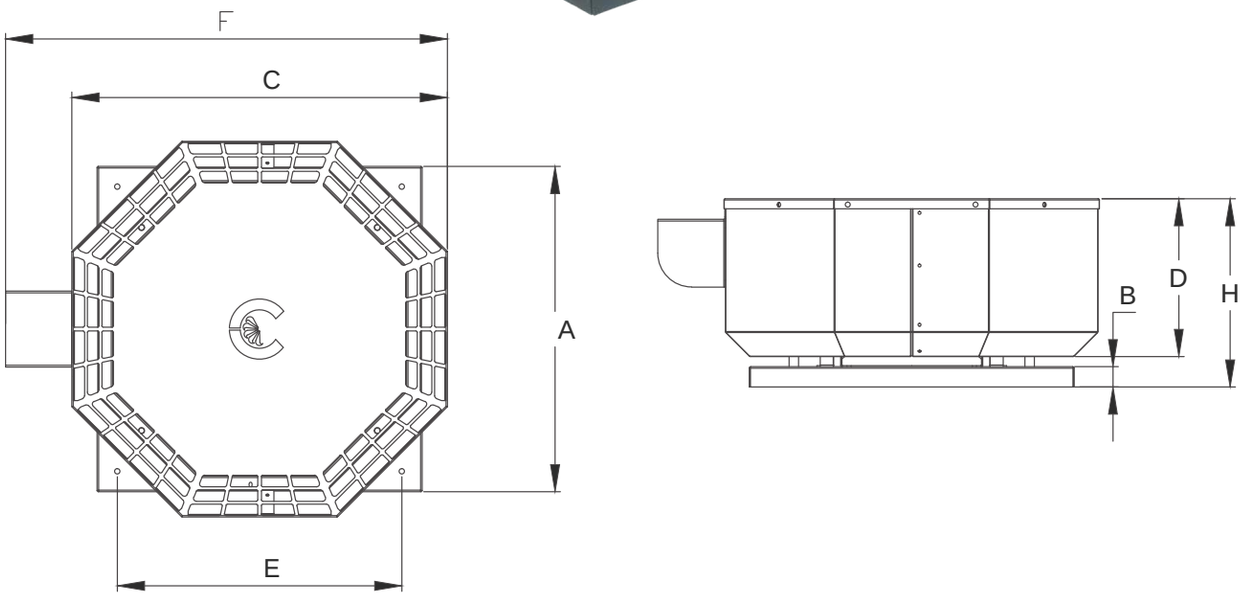
ENERGY EFFICIENT LONG LIFE

PRODUCT FEATURES

- Galvaniz sac üzeri elektrostatik fırın boyalı gövde Galvanised sheet metal with electrostatic oven drying case
- Dikey atışlı, radyal pervaneli Vertical discharge, radial impellers
- On-off bakım anahtarlı On-off maintenance switch
- Cihaz koruması olarak IP54 koruma sınıfı seçilmiş olup her türlü (ısı dayanımı istenilmeyen) egzoz aspirasyonu için uygundur IP54 protection class has been chosen for device protection and it is suitable for all kinds of exhaust aspiration
- Dikey atışlı çatı fanının yalıtım sınıfı ise F'dir The insulation class of the vertical discharge roof fan is F
- Cihazların motorları monofaze ya da trifaze olmakla beraber hız kontrolüne uygundur The device's mono-phased or three-phased motors are suitable for use with speed control
- Çatı fanları tasarlanırken kolay sökülebilir ve takılabilir özellikte tasarımları gerçekleşmektedir Roof fans are designed to be easily removable and installable

TECHNICS

MODEL	RV-200	RV-250	RV-315	RV-355	RV-400	RV-450	RV-500
VOLTAGE (V)	230	230	230	230	230	230	400
FREQUENCY (Hz)	50	50	50	50	50	50	50
POWER (W)	60	230	230	210	430	800	1500
CURRENT (A)	0,27	1,05	1,1	1	1,5	3,5	2,6
SPEED (rpm)	2500	2700	2450	1400	1380	1350	1400
AIR FLOW (m³/h)	540	1480	1800	2520	4100	6000	9500
CONDENSER (µf)	2	4	6	7	10	16	-



DIMENSIONS

MODEL	A	B	C	D	E	F	H
RV-200	320	30	390	177	210	492	222
RV-250	420	30	490	207	360	592	252
RV-315	480	30	550	233	420	652	278
RV-355	570	30	640	273	510	742	320
RV-400	690	30	760	351	630	862	396
RV-450	810	30	880	379	750	982	424
RV-500	830	30	900	401	770	1052	461
RV-500	830	30	900	401	770	1052	461

VERTICAL EC ROOF FANS

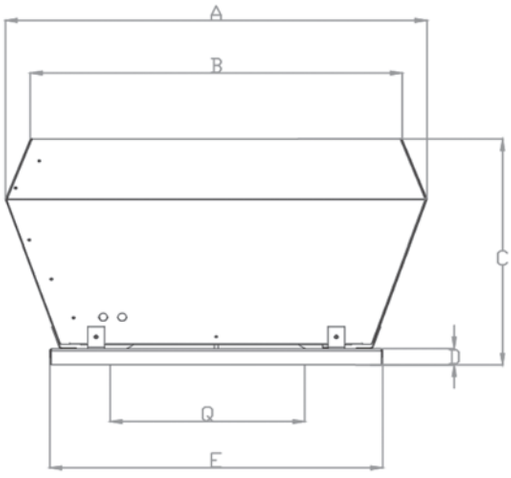
ENERGY EFFICIENT LONG LIFE

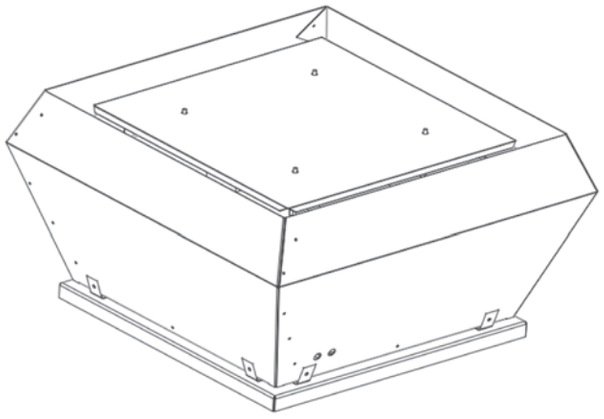
PRODUCT FEATURES

- EC kontrolü Integrated control system
- EC teknoloji sayesinde işletme tasarrufu Complete system with minimal operating costs by usage of EC technology
- Basit ve ayarlanabilir sistem Simple setting and adjustment of the complete system
- Dahili fark basınç sensörü Differantial pressure sensor
- Kademesiz hız Non-gradual speed
- On-off bakım şalteri Maintenance on-off switch
  Geriye eğik kanatlı Backward curved impeller

TECHNICS

MODEL	RV EC 250	RV EC 280	RV EC 315	RV EC 355	RV EC 400	RV EC 500	RV EC 560	RV EC 630
VOLTAGE (V)	230	230	230	230	380	380	380	380
FREQUENCY (Hz)	50	50	50	50	50	50	50	50
POWER (kW)	0,08	0,168	0,45	0,5	1,32	2,6	2,36	2,8
CURRENT (A)	0,7	1,4	2	2,2	2,1	4	3,65	4,2
SPEED (rpm)	1955	1910	2180	1850	2060	1700	1540	1300
AIR FLOW (m^3/h)	1060	2650	2990	4310	6420	11000	12750	15500
SOUND PL (dB) A 3m	53	62	61	62	68	70	71	70





DIMENSIONS

MODEL	A	B	C	D	E	ø
RV EC 250	537	460	323	35	447	221
RV EC 280	537	460	323	35	447	244
RV EC 310	672	595	398	35	527	284
RV EC 355	672	595	398	35	527	300
RV EC 400	887	785	487	35	701	343
RV EC 500	887	785	487	35	701	404
RV EC 560	1148	1044	570	35	899	526
RV EC 630	1148	1044	570	35	899	595

VERTICAL
EC ROOF FANS

PERFORMANCES

MODEL	AIRFLOW (m³/h)			
	0 Pa	100 Pa	200 Pa	300 Pa
RV EC 250	1060	944	665	382
RV EC 280	2650	2210	1460	990
RV EC 310	2990	2870	2400	2100
RV EC 355	4310	4190	3690	3150
RV EC 400	6420	6260	5980	5690
RV EC 500	11000	10650	10480	9600
RV EC 560	12750	12350	11700	10900
RV EC 630	15500	15120	14450	13400

BUTTERFLY
EFFECTS

MIXED - FLOW INLINE DUCT FANS

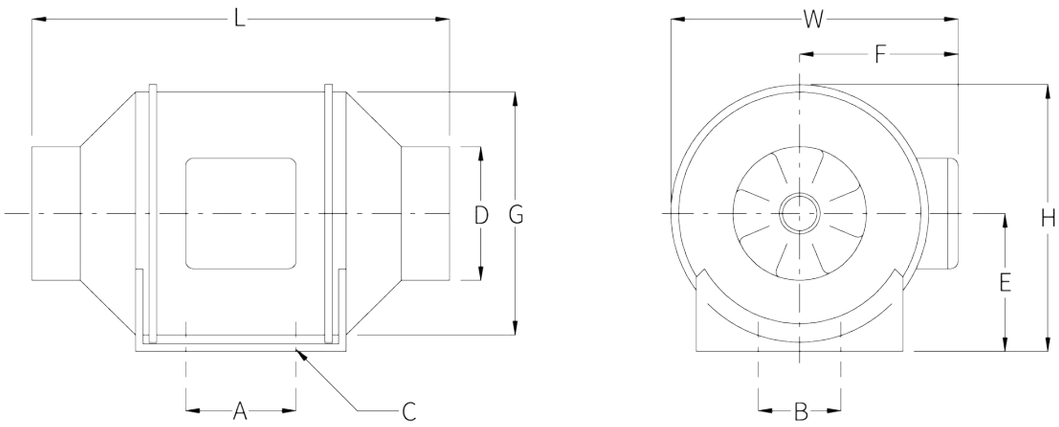
ENERGY EFFICIENT LONG LIFE

PRODUCT FEATURES

- Fan gövdesinde hoş çizgiler ve çift izolasyonlu çevre dostu bir malzeme Fan body is made odeco-friendly material with beautiful lines and double insulation
- Fan kanadı, optimum akış ve hava basıncına ulaşmak için akışkanlar dinamiği prensibine göre tasarlanmıştır Fan blade is designed according to flud dynamics princible to reach optimal flow and air pressure
- Montajı ve demontajı kolaylaştırmak için özel birleşim tasarım; kolay kurulum ve bakım Special design of joint to facilitate installation and dis-mounting; easy installation and maintenance
- Çift NMB rulmanlı güçlü motorlar, 50000 saatin üzerinde uzun çalışma ömrü Powerful motors with double NMB ball bearings, long working life over 50000 hours
- IP 44 koruma sınıfı IP 44 protection class
- Çalışma sıcaklığı aralığı: -20 °C - 60 °C Operating temperature range: -20 °C - 60 °C
- Evler, apartman, ofis, halka açık yer, otel, hatane, spor salonu vb. için kullanıma uygun Perfect for homes, apartment, office, public place, hotel, hospital, gym and etc.

DIMENSIONS

MODEL	A	B	C	ØD	E	F	ØG	L	W	H
MF-100	80	60	4-Ø4.5	97	99	116	163	302	204	195
MF-125	80	60	4-Ø4.5	123	99	116	163	257	204	195
MF-150	80	60	4-Ø5.0	147	109	127	187	313	227	208
MF-200	100	94	4-Ø5.5	197	125	137	205	302	249	237
MF-250	150	150	4-Ø8*.11	247	150	174	261	383	310	286



TECHNICS

MODEL	SPEED	VOLTAGE /FREQUENCY	CURRENT A	POWER W	SPEED RPM	AIR FLOW M3/H	AIR PRESSURE PA	NOISE DB	NET WEIGHT KG
MF-100	H	230V/50Hz	0.12	26	2200	198	156	31	2.0
	L		0.11	23	1850	165	131	26	
MF-125	H	230V/50Hz	0.14	33	2250	284	159	31	1.8
	L		0.13	28	1850	248	106	26	
MF-150	H	230v/50Hz	0.24	54	2550	530	300	33	2.7
	L		0.21	48	1850	410	240	29	
MF-200	H	230V/50Hz	0.53	128	2400	840	352	63	4.9
	L		0.52	123	1950	585	251	55	
MF-250	H	230v/50Hz	1.02	225	2450	1405	488	66	7.5
	L		165	123	1950	1064	371	58	

SILENT MIXED - FLOW INLINE DUCT FANS

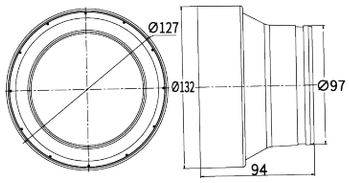
ENERGY EFFICIENT LONG LIFE

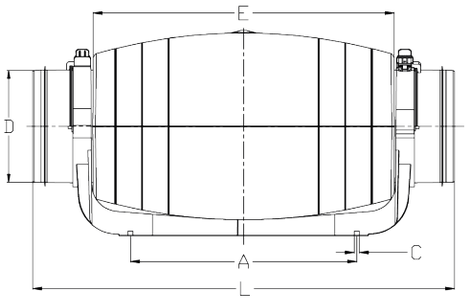
PRODUCT FEATURES

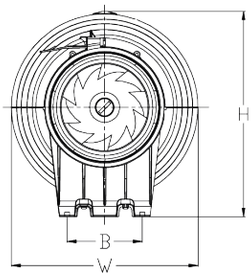
- Fan gövdesinde hoş çizgiler ve çift izolasyonlu çevre dostu bir malzeme Fan body is made odeco-friendly material with beautiful lines and double insulation
- Fan kanadı, optimum akış ve hava basıncına ulaşmak için akışkanlar dinamiği prensibine göre tasarlanmıştır Fan blade is designed according to flud dynamics princible to reach optimal flow and air pressure
- Ses seviyesini azaltmak için iki katmanlı ses emici pamuk ve ses dalgası delikleri Two-layer sound absorbent cotton and sound wave holes are produced inside to reduce noise level
- Çİft çaplı bağlantı, sızdırmaz ve darbeye dayanıklı Double diameter connection, sealing-up leak-proof and shockproof
- Geri dönüşümsüz damper, dönüş havasını ve böcekleri önlemek için tasarlanmıştır Inside backdraft damper is designed to prevent return air and insect
- Özel montaj kolay kurulum ve bakım için tasarlanmış Special joint is designed for easy installation and maintance
- Çift NMB rulmanlı güçlü motorlar, 50000 saatin üzerinde uzun çalışma ömrü Powerful motors with double NMB ball bearings, long working life over 50000 hours
- IP 44 koruma sınıfı IP 44 protection class
- Çalışma sıcaklığı aralığı: -20 °C - 60 °C Operating temperature range: -20 °C - 60 °C

DIMENSIONS

MODEL	A	B	C	ØD	E	L	W	H
SMF-100/125	248	82	4-Ø5.5	97/123	330	580/462	205	225
SMF-150	251	95	4-Ø5.3	149/158	352	488	221	244
SMF-200	339	128	4-Ø5.6	198	436	567	262	301

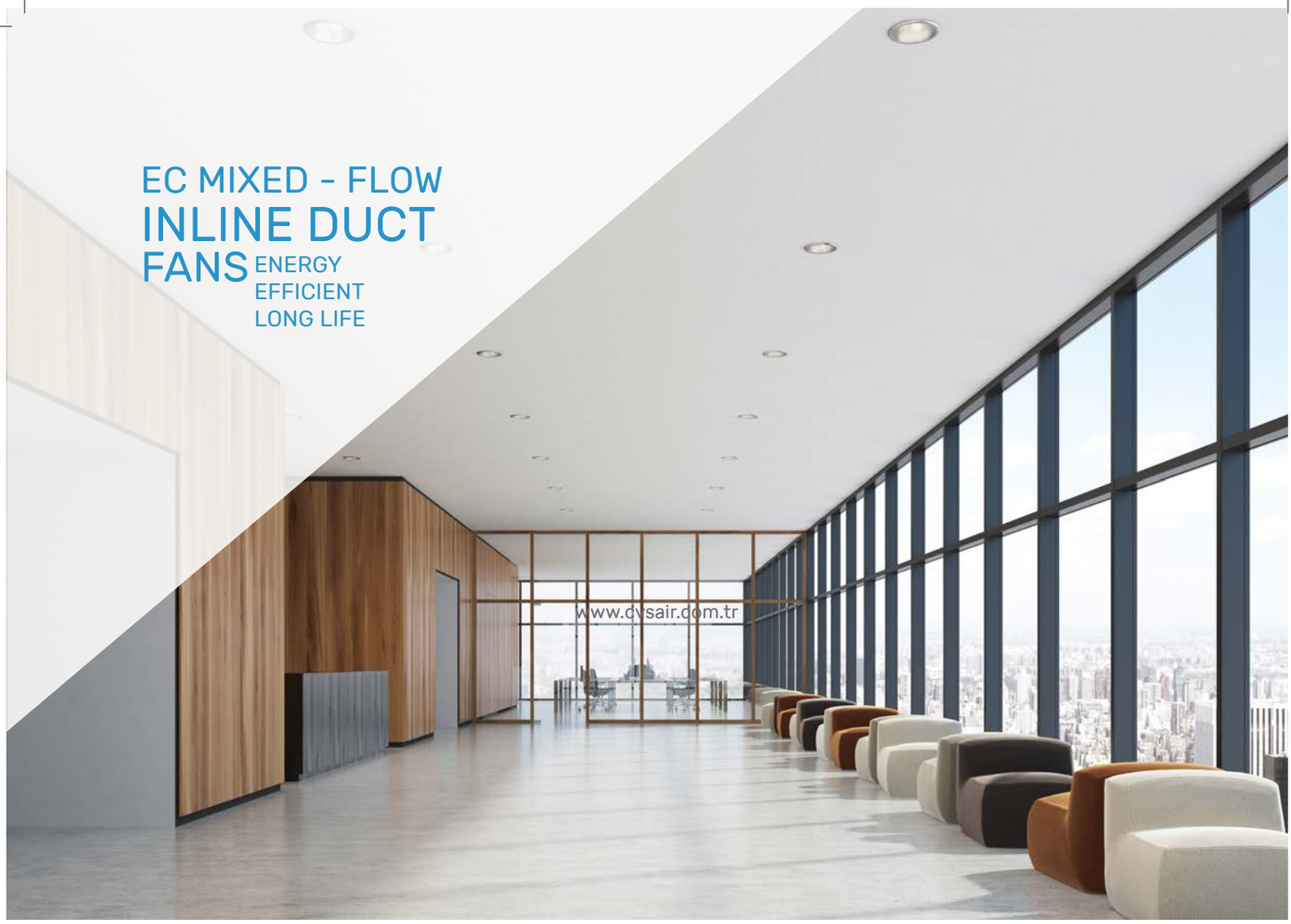






TECHNICS

MODEL	SPEED	VOLTAGE /FREQUENCY	CURRENT A	POWER W	SPEED RPM	AIR FLOW M3/H	AIR PRESSURE PA	NOISE DB	NET WEIGHT KG
SMF-100/125	H	230V/50Hz	0.14	33	2250	248	159	31	2.8
	L		0.13	28	1850	248	106	26	
SMF-150	H	230V/50Hz	0.25	50	2550	530	300	20	4.0
	L		0.2	43	1850	410	240	15	
SMF-200	H	230v/50Hz	0.57	128	2550	840	352	21	4.5
	L		0.52	123	1950	690	274	16	

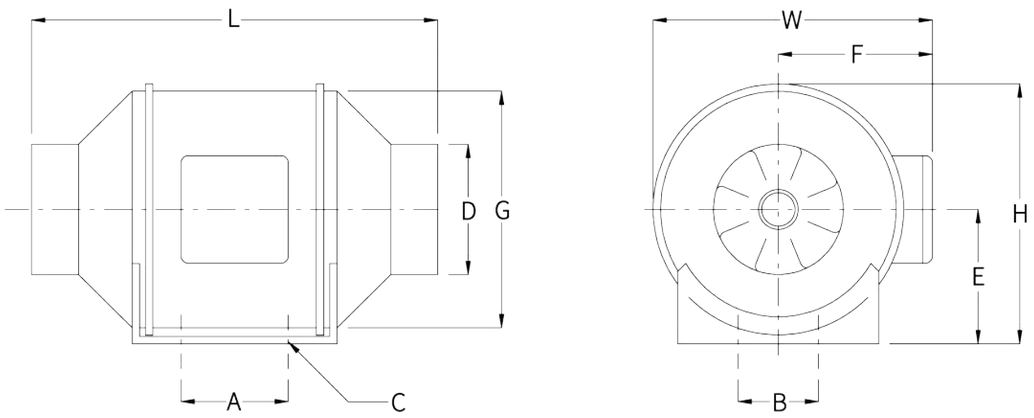


PRODUCT FEATURES

- EC motor uygulandığında, serbest hız kontrolü, ultra düşük güç tüketimi With EC motor applied, free speed control, ultra-low power consumption
- Fan gövdesinde hoş çizgiler ve çift izolasyonlu çevre dostu bir malzeme Fan body is made odeco-friendly material with beautiful lines and double insulation
- Fan kanadı, optimum akış ve hava basıncına ulaşmak için akışkanlar dinamiği prensibine göre tasarlanmıştır Fan blade is designed according to flud dynamics princible to reach optimal flow and air pressure
- Montajı ve demontajı kolaylaştırmak için özel birleşim tasarım; kolay kurulum ve bakım Special design of joint to facilitate installation and dis-mounting; easy installation and maintenance
- NMB bilyalı rulman, 50000 saatin üzerinde uzun çalışma ömrü NMB ball bearing, long working life over 50000 hours
- Bağlantı contası, koruma sınıfı IP 44 Sealing ring in connction, protection class IP 44
- Zamanlayıcı, sıcaklık sensörü, nem sensörü veya diğer özelleştirilmiş fonksiyonlar gibi kullanıcı dostu olarak tasarlanabilir Can be designed with user friendly such as timer, temperature sensor, humidty sensor or other custumized functions
- Çalışma sıcaklığı aralığı: -20 °C - 60 °C Operating temperature range: -20 °C - 60 °C
- Evler, apartman, ofis, halka açık yer, otel, hatane, spor salonu vb. için kullanıma uygun Perfect for homes, apartment, office, public place, hotel, hospital, gym and etc.

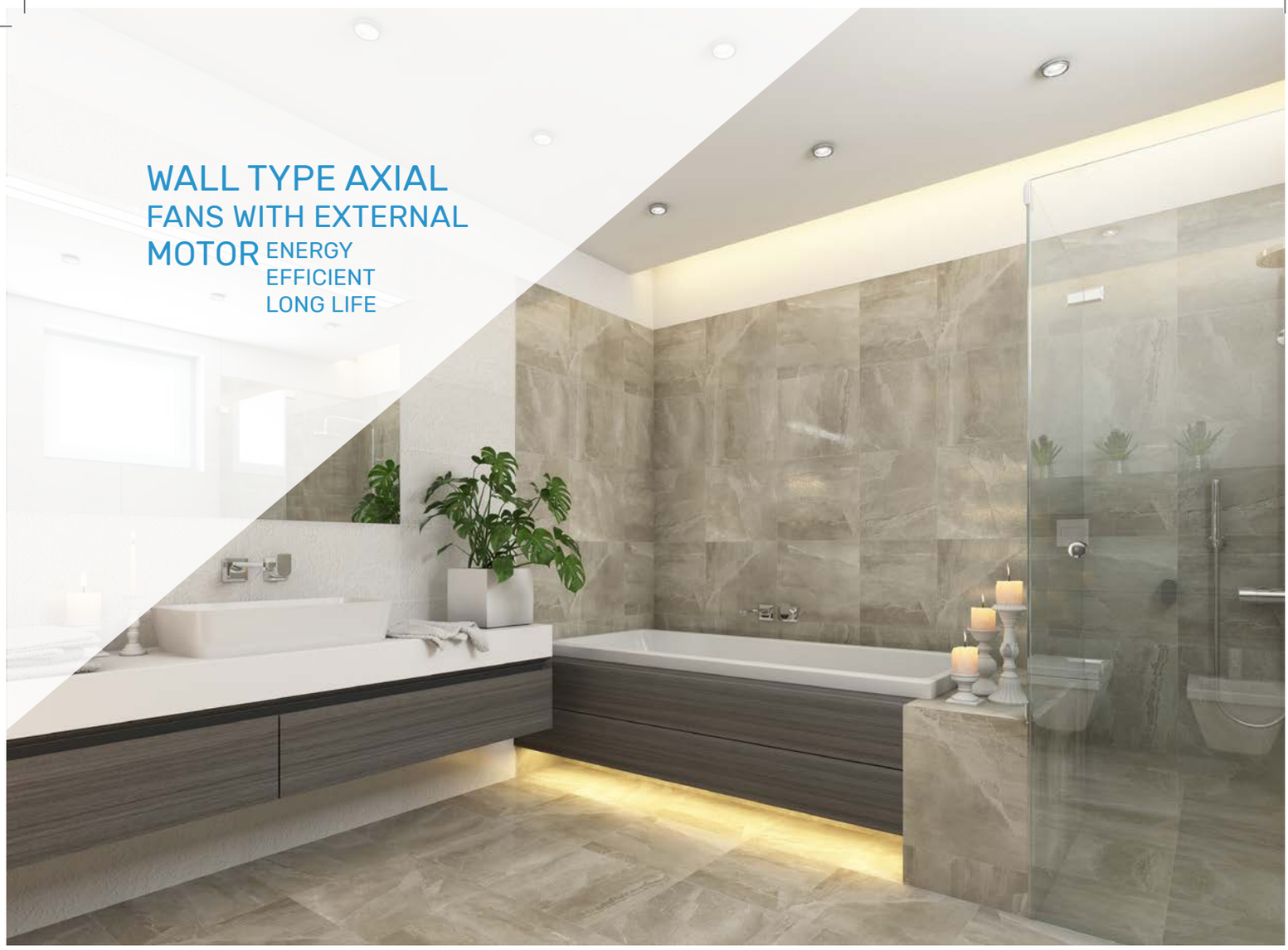
DIMENSIONS

MODEL	A	B	C	ØD	E	F	ØG	L	W	H
ECMF-100	80	60	4-Ø4.5	97	99	116	163	302	204	195
ECMF-125	80	60	4-Ø4.5	123	99	116	163	257	204	195
ECMF-150	80	60	4-Ø5.0	147	109	127	187	313	227	208



TECHNICS

MODEL	SPEED	VOLTAGE /FREQUENCY	CURRENT A	POWER W	SPEED RPM	AIR FLOW M3/H	AIR PRESSURE PA	NOISE DB	NET WEIGHT KG
ECMF-100	EC MOTOR	110-240V/50Hz	0.55	16.5	2200	198	156	31	2.0
ECMF-125	EC MOTOR	110-240V/50Hz	0.58	17.5	2250	284	159	31	1.8
ECMF-150	EC MOTOR	110-240V/50Hz	0.35	50	2250	530	300	33	2.7



WALL TYPE AXIAL FANS WITH EXTERNAL MOTOR

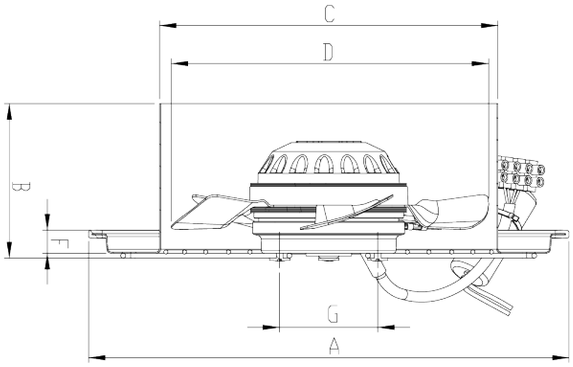
ENERGY EFFICIENT LONG LIFE

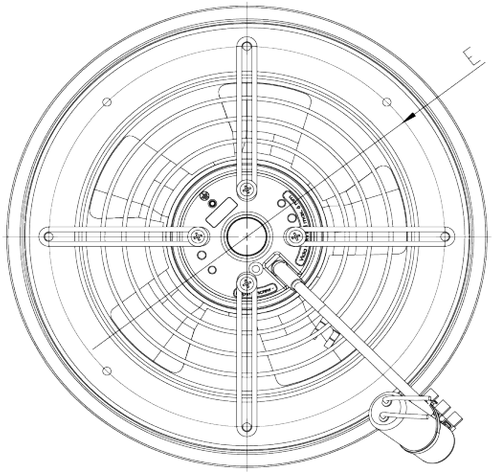
PRODUCT FEATURES

- Düşük ses seciyesi Low sound level
- Devir kontrolüne uygun Suitable for speed control
- Yuvarlak/Kare kasa alternatifi Circular/Square casing
- Epoksi boyalı, çevre şartlarına yüksek dayanım Epoxy paindet, resistance to outdoor applications
- 60 °C sıcaklığa sürekli dayanım Suitable for air temperatures up to 60 °C
- Fanlar EN 60335-2-80, EC Low Fans have EN 60335-2-80, EC Low
- Voltage Directive 73/23-93/68 ve EC Directive standartlarındadır Voltage Directive 73/23-93/68 an EC Directive standarts

TECHNICS

MODEL	V	Hz	W	(A)	(µF)	d/d	m³/h	dB(A)	kg
WA-200/2P	230	50	67	0,32	67	2700	680	60	2
WA-200/4P	230	50	52	0,3	52	1420	407	50	2.2
WA-250/2P	230	50	110	0,5	110	2640	1500	70	2.7
WA-250/4P	230	50	56	0,3	56	1380	760	60	2.7
WA-300/2P	230	50	160	0,63	160	2630	2020	72	3.5
WA-300/4P	230	50	63	0,3	63	1360	1410	60	3.5
WA-350/2P	230	50	240	1,08	240	2280	3110	78	4.6
WA-350/4P	230	50	72	0,32	72	1330	2340	65	4.6





DIMENSIONS

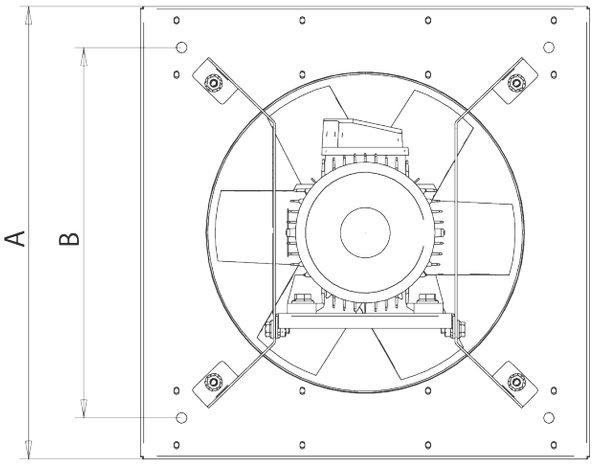
MODEL	A	B	C	D	E	F	G
WA-200/2P	284	95	200	189	229	14	58
WA-200/4P	284	95	200	189	229	14	58
WA-250/2P	335	95	250	238	284	14	58
WA-250/4P	335	95	250	238	284	14	58
WA-300/2P	390	95	300	288	332	14	58
WA-300/4P	390	95	300	288	332	14	58
WA-350/2P	427	100	350	338	398	2	58
WA-350/4P	427	100	350	338	398	2	58

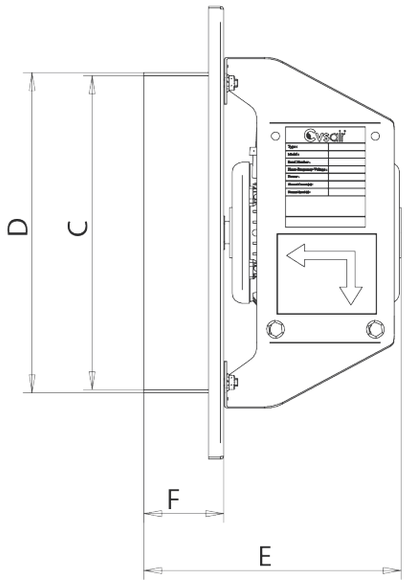
WALL TYPE AXIAL FANS

ENERGY EFFICIENT LONG LIFE

PRODUCT FEATURES

- Dış gövde çelik sacdan mamül External body made of sheet steell
- Pervane, alüminyum alaşım malzemeden, enjeksiyon dökümden imal Impeller, made of aluminum alloy material, injection molding
- Sıcak daldırma galvaniz ya da elektrostatik fırın boyalı Hot dip galvanized or electrostatic painted
- Hava akış yönü, motordan pervaneye şeklinde Air flow direction from motor to propelle
- Motor koruma sınıfı IP 55 Motor protection class IP 55
- Motor izolasyon sınıfı F Motor insulation class F
- Ex-proof seçeneği Ex-proof option

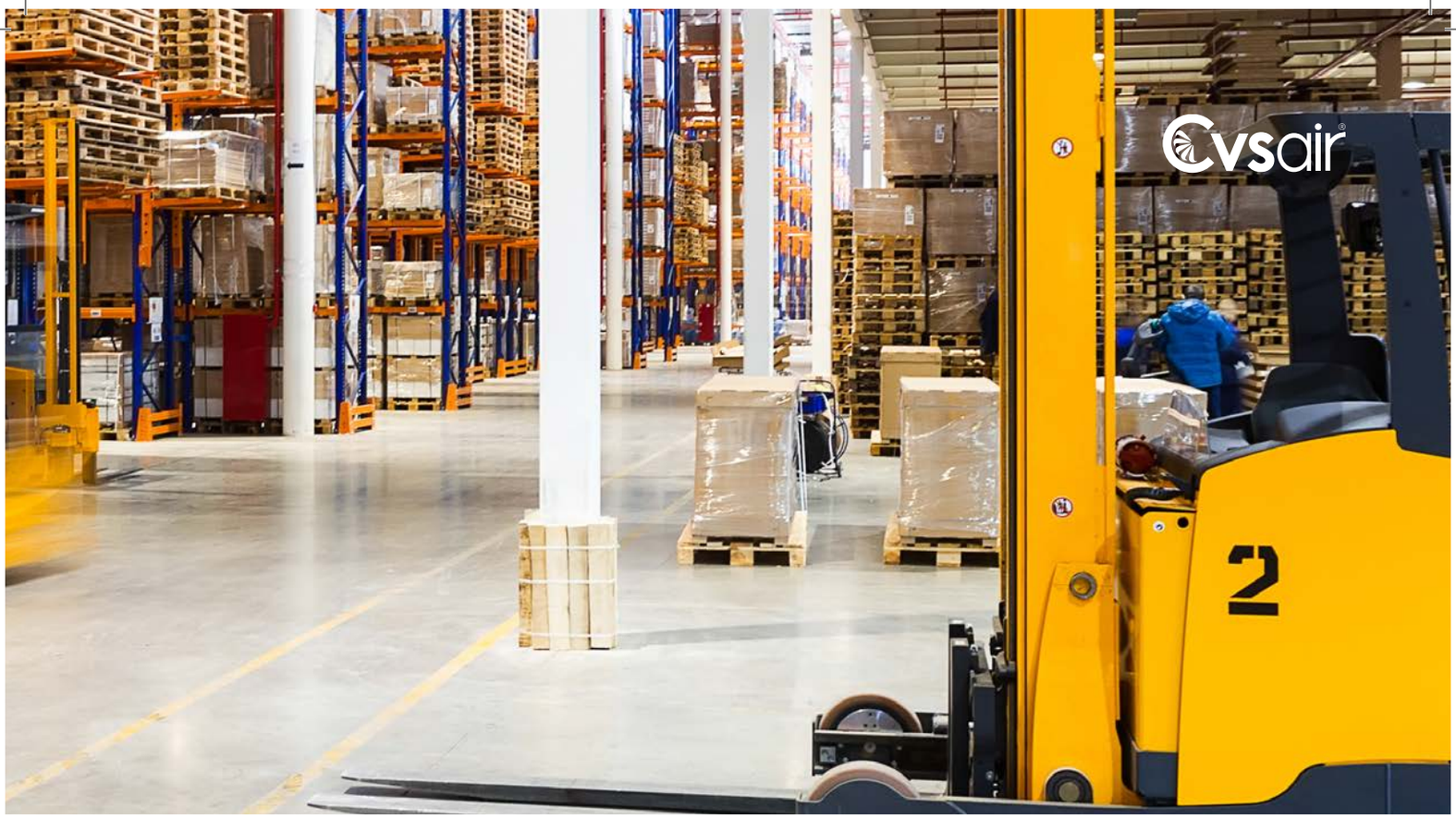

A
B


D
C
F
E

WALL TYPE
AXIAL FANS

TECHNICS

	MODEL	POWER kW	SPEED d/d	A	V	Hz/Ph	dB	MAX (m^3/h)
315	WA-315 0,25/4P	0,25 kW	1500	0,81	400	50 Hz / 3ph	50	2.750
	WA-315 0,55/2P	0,55 kW	3000	1,27	400	50 Hz / 3ph	67	4.600
355	WA-355 0,25/4P	0,25 kW	1500	0,81	400	50 Hz / 3ph	59	4.000
	WA-355 0,75/2P	0,75 kW	3000	1,6	400	50 Hz / 3ph	70	5.900
400	WA-400 0,25/4P	0,25 kW	1500	0,81	400	50 Hz / 3ph	53	5.300
	WA-400 1,1/2P	1,5 kW	3000	3,4	400	50 Hz / 3ph	72	9.000
450	WA-450 1,5/2P	1,5 kW	3000	3,4	400	50 Hz / 3ph	65	11.700
	WA-450 0,37/4P	0,37 kW	1500	1,15	400	50 Hz / 3ph	58	7.700
500	WA-500 0,55/4P	0,55 kW	1500	1,6	400	50 Hz / 3ph	60	10.000
	WA-500 0,25/6P	0,25 kW	1000	0,61	400	50 Hz / 3ph	51	6.500
560	WA-560 0,75/4P	0,75 kW	1500	2,1	400	50 Hz / 3ph	61	12.700
	WA-560 0,25/6P	0,25 kW	1000	0,61	400	50 Hz / 3ph	53	8.700
630	WA-630 1,1/4P	1,1 kW	1500	2,6	400	50 Hz / 3ph	64	16.700
	WA-630 0,37/6P	0,37 kW	1000	1,1	400	50 Hz / 3ph	54	10.000
710	WA-710 1,5/4P	1,5 kW	1500	3,5	400	50 Hz / 3ph	64	21.000
	WA-710 0,75/6P	0,75 kW	1000	2	400	50 Hz / 3ph	64	16.700
800	WA-800 3/4P	3 kW	1500	6,6	400	50 Hz / 3ph	74	31.000
	WA-800 0,75/6P	0,75 kW	1000	2	400	50 Hz / 3ph	64	21.000
900	WA-900 4/4P	4 kW	1500	8,2	400	50 Hz / 3ph	75	41.000
	WA-900 1,5/6P	1,5 kW	1000	3,6	400	50 Hz / 3ph	70	31.500
1000	WA-1000 5,5/4P	5,5 kW	1500	11,2	400	50 Hz / 3ph	77	52.000
	WA-1000 1,5/6P	1,5 kW	1000	3,6	400	50 Hz / 3ph	67	34.000



DIMENSIONS

MODEL	A	B	C	D	E	F
WA-315 0,25 / 4P	450	368	Ø315	Ø318	230	80
WA-315 0,55 / 2P	450	368	Ø315	Ø318	260	80
WA-355 0,25 / 4P	490	408	Ø355	Ø358	230	80
WA-355 0,75 / 2P	490	408	Ø355	Ø358	260	80
WA-400 0,25 / 4P	535	453	Ø400	Ø403	230	80
WA-400 1,1 / 2P	535	453	Ø400	Ø403	290	80
WA-450 0,37 / 4P	585	503	Ø450	Ø453	230	80
WA-450 1,5 / 2P	585	503	Ø450	Ø453	290	80
WA-500 0,25 / 6P	635	553	Ø500	Ø503	250	100
WA-500 0,55 / 4P	635	553	Ø500	Ø503	280	100
WA-560 0,25 / 6P	695	613	Ø560	Ø563	250	100
WA-560 0,75 / 4P	695	613	Ø560	Ø563	280	100
WA-630 0,37 / 6P	765	683	Ø630	Ø633	250	100
WA-630 1,1 / 4P	765	683	Ø630	Ø633	310	100
WA-710 0,75 / 6P	845	763	Ø710	Ø713	330	150
WA-710 1,5 / 4P	845	763	Ø710	Ø713	360	150
WA-800 0,75 / 6P	935	853	Ø800	Ø803	330	150
WA-800 3 / 4P	935	853	Ø800	Ø803	400	150
WA-900 1,5 / 6P	1035	953	Ø900	Ø903	360	150
WA-900 4 / 4P	1035	953	Ø900	Ø903	400	150
WA-1000 1,5 / 6P	1135	1053	Ø1000	Ø1003	360	150
WA-1000 5,5 / 4P	1135	1053	Ø1000	Ø1003	480	150

BATHROOM FANS

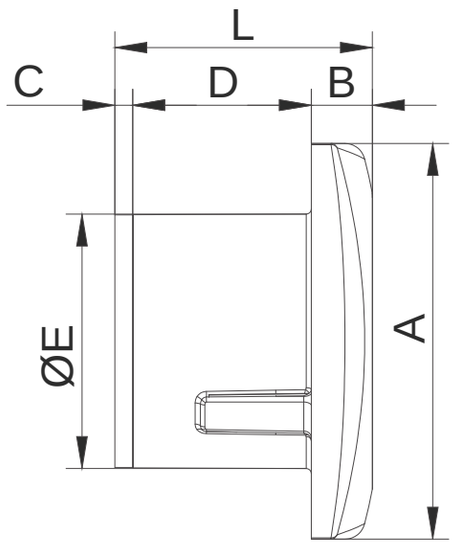
ENERGY
EFFICIENT
DURABLE
SILENT

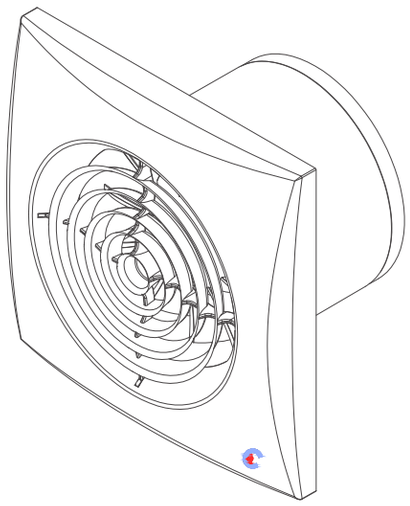
PRODUCT FEATURES

- 25 ve 30 dB düşük ses seviyesi 25-30 dB Low –Sound Level
- Uzun ömürlü rulman (40.000 çalışma saati) Long - lasting Ball-Bearing (up to 40.000 working hours)
- Modern tasarım Modern design
- Düşük enerji tüketimi Low energy consumption
- Yüksek kalite ABS plastik malzeme High-quality ABS plastic material
- Kolay montaj (montaj ekipmanları ürün ile birlikte verilir) Easy installation (mounting equipments are given together with the product)
- Sıcak ortamlarda aşırı ısınmaya karşı korumalı, ısı sensörlü motor Motor with heat sensor and high heat protection against to hot conditions
- IP 24 ve IP 25 su ve katı cisim koruma sınıfı IP 24 and IP 25 class against to water and solid substance
- EN 60335-2-80, low voltage equipment ve electromagnetic compatibility (2004/108/ec) standartlarına uygun olarak üretim Produced in accordance with EN 60335-2-80, Low Voltage Equipment [2006/95/EC] and Electromagnetic Compatibility [2004/108/EC] norms

TECHNICS

	B 100	B 120
VOLTAGE (V)	230	230
FREQUENCY (Hz)	50	50
POWER (W)	8,4	10
CURRENT(A)	0,04	0,05
AIR FLOW (m³/h)	90	180
PRESSURE (Pa)	48	58
SOUND PRESSURE LEVEL (dB) A	25	30
WEIGHT (KG)	0,5	0,6





DIMENSIONS

MODEL	ØE	A	B	C	D	L
B 100	100	155	24	7	70	101
B 120	125	175	24	8,5	78	110,5

PERFORMANCES

MODEL	AIR FLOW (m³/h)			
	0 Pa	15 Pa	30 Pa	45 Pa
B 100	90	68	32	12
B 120	180	140	64	35

BATHROOM FANS

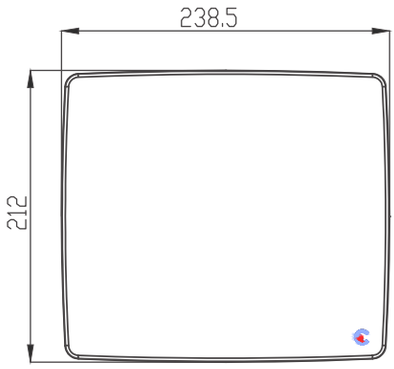
ENERGY
EFFICIENT
DURABLE
SILENT

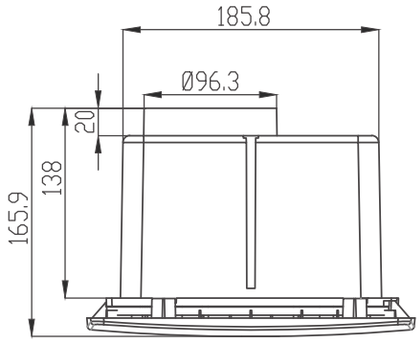
PRODUCT FEATURES

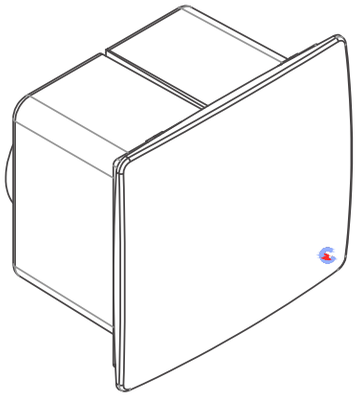
- Üründe sadelik ve yüksek performans ön plandadır Prioritizing simplicity and high performance
- Yüksek kalite ABS plastik ile imal edilmiş ürün kötü koku, nem ve benzeri dış etkenlere karşı en iyi korumayı sağlar Provides the highest protection against external factors such as malodors and moisture, and maintains its initial appearance thanks to the high-quality ABS plastic material used
- Hava çıkış klapesi, aspiratör kullanılmadığında hem dışarıdan içeriye girebilecek toz, kötü koku ve soğuk gibi etkenlere karşı en iyi korumayı sağlarken hem de içeriden dışarıya sızabilecek ısı kaybını önlemektedir When the fan is not in use, indoor area is protected from external effects such as dust, malodor and cold. Heat loss from inside to outside is prevented thanks to the air outlet flap
- Toza maruz kalan kısım ön kapak çıkarılıp silinerek ya da yıkanarak temizlenebilir Front cover can be removed easily and cleaned by being washed or rubbed off
- Optimum fan tasarımıyla hem ses seviyesi en alt düzeye indirgenmiş hem de yüksek basınçlı hava emişi sağlanmıştır Specially designed body ensures effective suction and provides low sound performance
- Kendi kendini yağlayan motor yatakları sessiz ve uzun ömürlü performans sağlamaktadır Self lubricating motor bearings provide low sound and long-life performance
- Su sıçramasına karşı IP24 korumasına sahiptir IP24 protection against water splash
- Toprak bağlantısı gerektirmeyen Sınıf-II korumasına sahiptir Class-II protection which does not require earth connection
- Ürünler EN 60335-2-80, Low Voltage Equipment - 2006/95/EC ve Electromagnetic Compatibility 2004/108/EC normlarına göre üretilmektedir All products are manufactured in accordance with EN 60335-2-80, Low Voltage Equipment [2006/95/EC] and Electromagnetic Compatibility [2004/108/EC] norms

TECHNICS

	QUITO-1
VOLTAGE (V)	230
FREQUENCY (Hz)	50
POWER (W)	22
CURRENT(A)	0,23
AIR FLOW (m^3/h)	110
SPEED (rpm)	2000
STATIC PRESSURE (Pa)	120
SOUND PRESSURE LEVEL (dB) A 3m	29
PROTECTION CLASS (IP)	II/IPX4
MOTOR INSULATION CLASS	B







PERFORMANCES

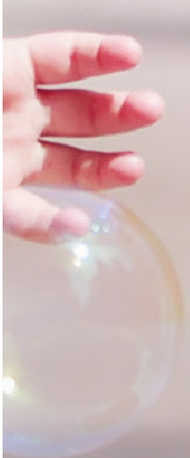
MODEL	AIR FLOW (m³/h)					
	0 Pa	20 Pa	40 Pa	60 Pa	80 Pa	100 Pa
QUITO-1	110	93	80	64	48	32


www.cvsair.com.tr

VENTILATION FAN UNITS

Cvsair®

newairbender



www.cvsair.com.tr

Kitchen Exhaust Fans

CABINET KITCHEN EXHAUST FANS

ENERGY EFFICIENT LONG LIFE

PRODUCT FEATURES

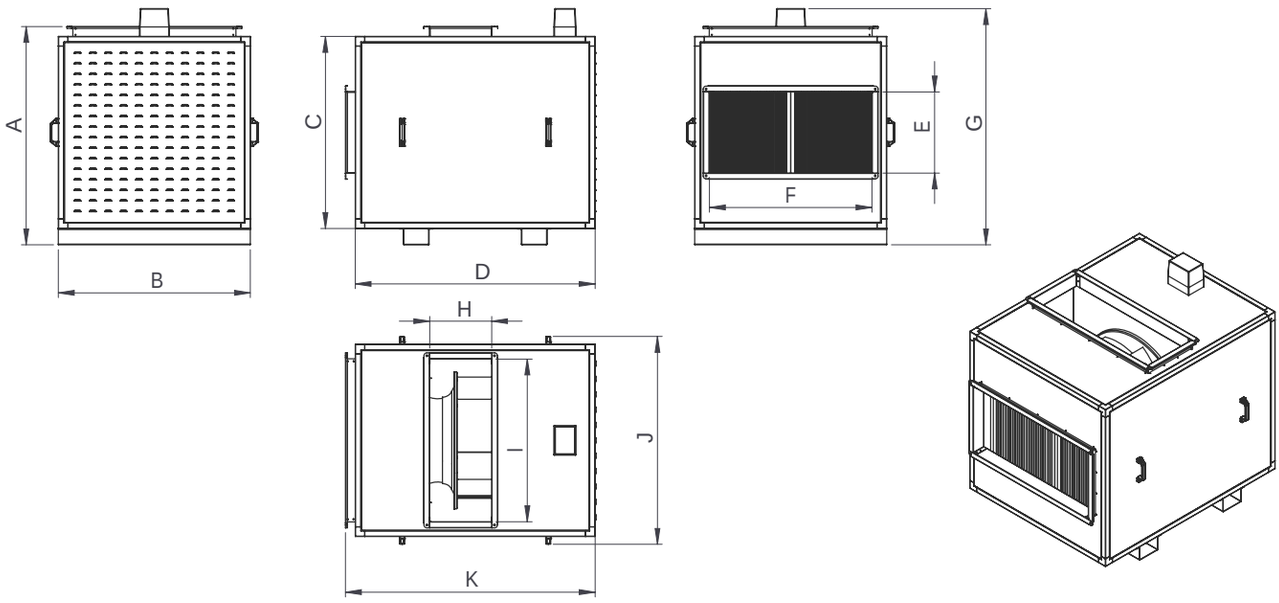
- Çift cidarlı gövde yapısına sahiptir. 25 mm kalınlığında kaya yünü kullanılarak ısı ve ses izolasyonu sağlanmaktadır Double Walled Casing. 25 mm thick rock wool is used for heat and sound insulation
- Korozyona dirençli alüminyumdan imal edilen geriye eğik seyrek kanatlı tipte fan kullanılmıştır Corrosion-resistant aluminium backward curved bladed fan used
- Yüksek verimli plug fan yapısı sayesinde düşük enerji tüketimi sağlar Low energy consumption thanks to high efficiency plug fan
- Düşük ses ve titreşim ile uzun yıllar sorunsuz çalışma Long-lasting trouble-free operation with low noise and vibration level
- Termik motor koruma mevcuttur Thermal motor protection

TECHNICS

MODEL	BOX K 400	BOX K 450	BOX K 500	BOX K 560	BOX K 630
VOLTAGE (V)	380	380	380	380	380
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	0,75	1,1	1,5	2,2	5,5
CURRENT (A)	1,92	2,6	3,5	4,9	11,5
AIR FLOW (m³/h)	5320	7000	9750	14800	22500

PERFORMANCES

MODEL	AIRFLOW (m³/h)							
	0 Pa	150 Pa	300 Pa	450 Pa	600 Pa	750 Pa	900 Pa	1050 Pa
BOX K 400	5320	4700	3900	2100				
BOX K 450	7000	6400	5600	4450				
BOX K 500	9750	9100	8250	7250	5500			
BOX K 560	14800	14400	13500	12000	10400	7800	3200	
BOX K 630	22500	21300	20650	19800	18600	16000	14900	11250



DIMENSIONS

MODEL	A	B	C	D	E	F	G	H	I	J	K
BOX K 400	738	598	598	885	298	448	832	198	448	680	936
BOX K 450	841,6	698	698	988,4	348	548	937	238	548	780	1038
BOX K 500	943	798	798	1040	348	648	1037	248	648	880	1091
BOX K 560	946	800	800	1085	383	647	1034	283	647	882	1137
BOX K 630	1136,6	1000	1000	1250	422	847	1230	322	847	1082,2	1300

VERTICAL KITCHEN EXHAUST FANS

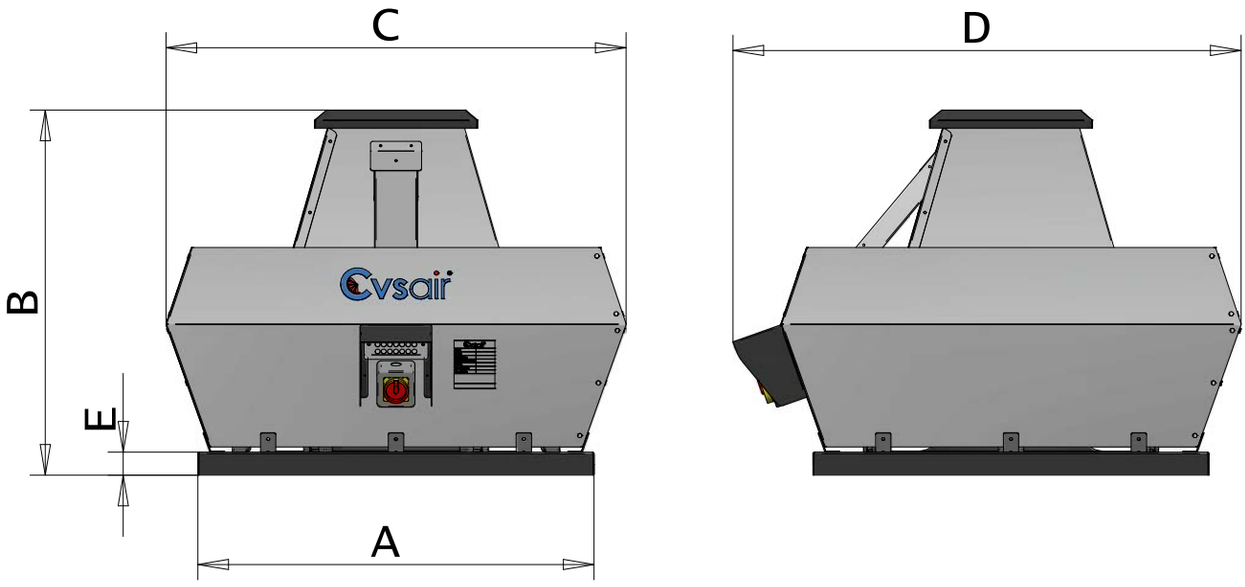
ENERGY EFFICIENT LONG LIFE

PRODUCT FEATURES

- Dış gövdesi galvaniz çelik sacdan mamul Casing fabricated from galvanised steel sheet
- Dikey atışlı, radyal pervaneli Vertical discharge with radial impeller
- Frekans invertörü ve hız anahtarıyla kullanılabilme Suitable to control speed and air-flow with frequency inverter or control switches
- Dikey atışlı mutfak egzoz fanı dış gövdesi yağmur kar ve diğer dış etkenlerden korunması ve uzun süreli zarar görmemesi adına galvaniz çelik sacdan imal edilmiştir Casing is fabricated with galvanized steel sheet to protect fan from snow and extarnal factors also to prevent damage for a long time
- Fan motoru mutfak egzoz aspirasyonu yaptığı için motor hava akımı dışında bırakılarak tasarlanmış olup cihaz 120 ‘C de sürekli çalışma özelliğine sahiptir Since the fan is designed to operate in kitchen exhaust aspiration continously at 120°C, motor is designed to be out of air stream
- Dikey atışlı çatı fanı davlumbaz uygulamalarına uygun olarak üretilmekle beraber cihazın koruma sınıfı IP 55’ tir Vertical kitchen exhaust roof fan is producing suitabile hood application and the device has IP55 protection class

TECHNICS

MODEL	RV-K 225	RV-K 250	RV-K 280	RV-K 315	RV-K 400	RV-K 450	RV-K 500	RV-K 560
VOLTAGE (V)	230	230	230	230	230	230	230	400
FREQUENCY (Hz)	50	50	50	50	50	50	50	50
POWER (kW)	0,37	0,75	1,1	1,5	0,75	1,1	2,2	3
CURRENT (A)	2,5	5	7	9,8	4,6	7,1	13,4	6,5
SPEED (rpm)	2850	2850	2850	2850	1410	1410	1410	1410
AIR FLOW (m³/h)	1320	2200	2600	3450	4000	5800	8000	10500
STATIC PRESSURE (Pa)	50	50	50	50	50	50	50	50



DIMENSIONS

MODEL	A	B	C	D	E
RV-K 225	495	515	620	712	40
RV-K 250	495	536	620	712	40
RV-K 280	495	550	620	712	40
RV-K 315	565	575	700	795	40
RV-K 400	565	605	700	795	40
RV-K 450	775	714	900	994	40
RV-K 500	775	752	900	994	40
RV-K 560	1055	825	1150	1250	40

PERFORMANCES

MODEL	AIRFLOW (m³/h)						
	50 Pa	150 Pa	300 Pa	450 Pa	600 Pa	750 Pa	900 Pa
RV-K 225	1320	1150	950	570			
RV-K 250	2200	2100	1900	1600	1050		
RV-K 280	2600	2550	2330	2075	1800	1300	
RV-K 315	3450	3300	3150	3000	2750	2400	
RV-K 400	4000	3500	2800				
RV-K 450	5800	5300	4600	3400			
RV-K 500	8000	7500	6800	5600	2070		
RV-K 560	10500	10000	9000	8500	7100	4470	
RV-K 630	13800	13200	12350	11400	10800	9200	5250
RV-K 710	14000	13000	11500	9000			


ORDERING MEAL EVERYDAY?
OF COURSE NOT!
BUT YOUR NEIGHBOURS WILL THINK SO

ELECTROSTATIC FILTERED KITCHEN EXHAUST FANS

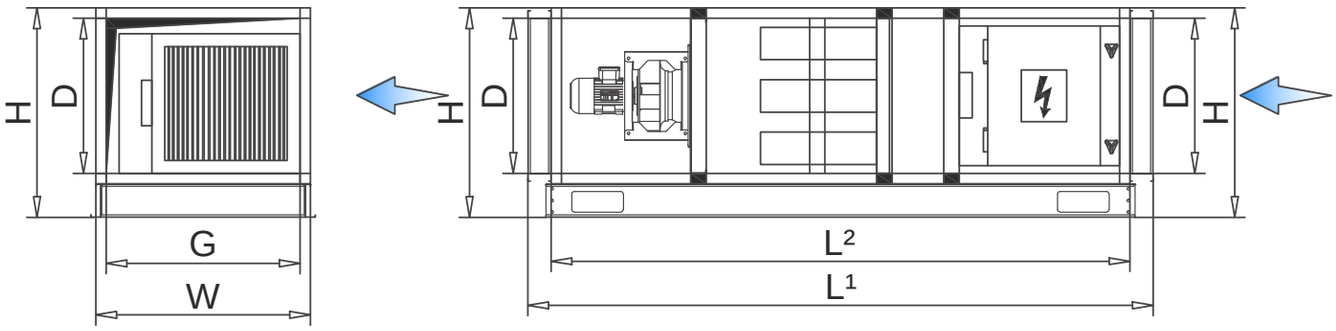
ENERGY EFFICIENT LONG LIFE

PRODUCT FEATURES

- Bacasız, duman ve kokuyu engelleyen kompakt tasarım Compact design prevent smoke and smell without fluess
- Elektrostatik, metal ve aktif karbon filtreli Electrostatic filter, metal filter and active carbon filtered
- Yüksek verimli plug fanlı High efficent plug fan
- Bakım ve kullanımı kolay Easy to use – maintanance

TECHNICS

MODEL	ESF-2500	ESF-5000	ESF-7500	ESF-10000	ESF-15000
VOLTAGE (V)	380	380	380	380	380
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	1,1	2,2	3	4	7,5
AIR FLOW (m^3/h)	2500	5000	7500	10000	15000
STATIC PRESSURE (Pa)	400	400	400	400	400



DIMENSIONS

MODEL	L¹	L²	W	H	D	G
ESF-2500	2420	2240	830	810	600	750
ESF-5000	2910	2730	1560	1110	900	1480
ESF-7500	2910	2730	1680	1160	950	1600
ESF-10000	3040	2860	1530	1860	1650	1450
ESF-15000	3350	3170	1560	1990	1780	1480


vsair
YOU'VE TO GO AND SEE
WHAT IS COOKING

www.cvsair.com.tr

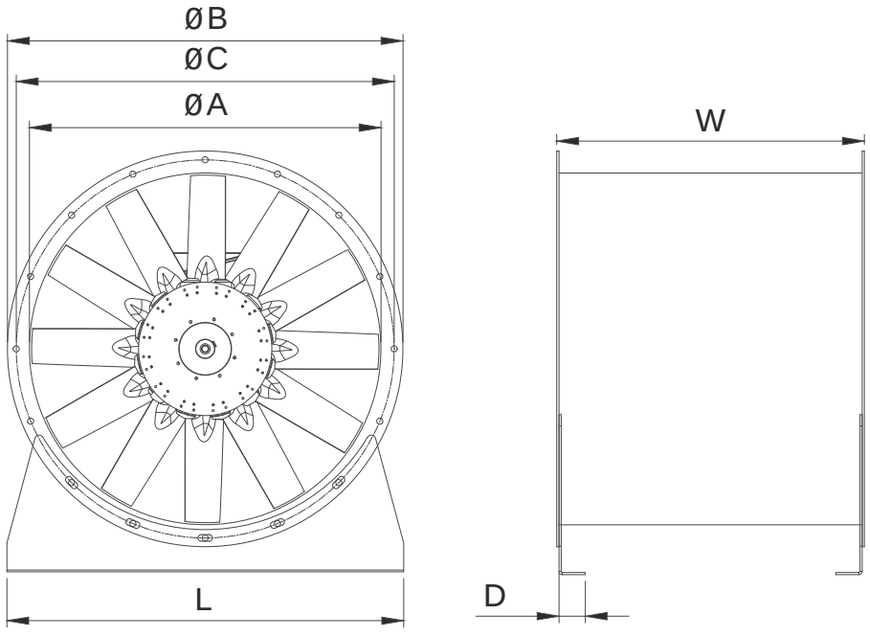
Exproof Fans

EXPROOF AXIAL DUCT FANS

ENERGY EFFICIENT LONG LIFE

PRODUCT FEATURES

- Çelik sac gövde, pervane kısmı alüminyum çemberli Steel sheet case and aluminium rim impeller
- EN 14986:2006 standartlarına uygun Certificated according to EN 14986:2006
- Alüminyum alaşımlı pervane Aluminium alloy impeller
- Uzun gövdeli, kendinden flanşlı dış kasa Long case and self flanged body
- Atex sertifikalı Atex certificated motor
- II 2G Ex d IIC T4
  II 2D Ex d IIIB T130 °C



DIMENSIONS

MODEL	A	B	C	W	L	D
CVS-Ø400	400	480	450	500	496	50
CVS-Ø450	450	530	500	500	560	50
AF-Ø500	500	600	560	500	600	50
CVS-Ø560	560	660	620	500	662	50
CVS-Ø630	630	730	690	700	727	50
CVS-Ø710	710	810	770	700	806	50
CVS-Ø800	800	900	860	700	903	60
CVS-Ø900	900	1000	970	800	996	60
CVS-Ø1000	1000	1100	1070	800	1096	60
CVS-Ø1120	1120	1220	1190	900	1216	60
CVS-Ø1250	1250	1370	1320	900	1250	60

TECHNICS

MODEL	CVS-Ø400-0,75/2P	CVS-Ø400-1,1/2P	CVS-Ø400-1,5/2P	CVS-Ø400-2,2/2P
VOLTAGE (V)	400	400	400	400
FREQUENCY (Hz)	50	50	50	50
POWER (kW)	0,75	1,1	1,5	2,2
CURRENT (A)	1,85	2,6	3,25	4,75
SPEED (rpm)	3000	3000	3000	3000
AIR FLOW (m³/h)	6.100	7.400	9.000	11.000

MODEL	CVS-Ø450-1,5/2P	CVS-Ø450-2,2/2P	CVS-Ø450-3/2P
VOLTAGE (V)	400	400	400
FREQUENCY (Hz)	50	50	50
POWER (kW)	1,5	2,2	3
CURRENT (A)	3,25	4,75	6,45
SPEED (rpm)	3000	3000	3000
AIR FLOW (m³/h)	9.500	13.250	15.000

MODEL	CVS-Ø500-4/2P	CVS-Ø500-5,5/2P
VOLTAGE (V)	400	400
FREQUENCY (Hz)	50	50
POWER (kW)	4	5,5
CURRENT (A)	7,5	9,8
SPEED (rpm)	3000	3000
AIR FLOW (m³/h)	18.000	21.500

TECHNICS

MODEL	CVS-Ø560-4/2P	CVS-Ø560-7,5/2P
VOLTAGE (V)	400	400
FREQUENCY (Hz)	50	50
POWER (kW)	4	7,5
CURRENT (A)	7,5	15,3
SPEED (rpm)	3000	3000
AIR FLOW (m³/h)	22.000	28.000

MODEL	CVS-Ø630-4/2P	CVS-Ø630-5,5/2P	CVS-Ø630-7,5/2P	CVS-Ø630-11/2P
VOLTAGE (V)	400	400	400	400
FREQUENCY (Hz)	50	50	50	50
POWER (kW)	4	5,5	7,5	11
CURRENT (A)	7,5	9,8	15,3	21,4
SPEED (rpm)	3000	3000	3000	3000
AIR FLOW (m³/h)	20.000	26.000	29.000	33.500

MODEL	CVS-Ø710-2,2/4P	CVS-Ø710-3/4P	CVS-Ø710-4/4P
VOLTAGE (V)	400	400	400
FREQUENCY (Hz)	50	50	50
POWER (kW)	2,2	3	4
CURRENT (A)	4,9	7,7	8,5
SPEED (rpm)	1500	1500	1500
AIR FLOW (m³/h)	24.000	26.000	30.000

EXPROOF AXIAL
DUCT FANS

TECHNICS

MODEL	CVS-Ø800-4/4P	CVS-Ø800-5,5/4P	CVS-Ø800-7,5/4P
VOLTAGE (V)	400	400	400
FREQUENCY (Hz)	50	50	50
POWER (kW)	4	5,5	7,5
CURRENT (A)	8,5	10,1	15,6
SPEED (rpm)	1500	1500	1500
AIR FLOW (m³/h)	27.500	37.500	42.000

MODEL	CVS-Ø900-5,5/4P	CVS-Ø900-7,5/4P	CVS-Ø900-11/4P	CVS-Ø900-15/4P
VOLTAGE (V)	400	400	400	400
FREQUENCY (Hz)	50	50	50	50
POWER (kW)	5,5	7,5	11	15
CURRENT (A)	10,1	13,9	20,6	28
SPEED (rpm)	1500	1500	1500	1500
AIR FLOW (m³/h)	44.000	43.000	50.000	57.500

MODEL	CVS-Ø1000-7,5/4P	CVS-Ø1000-11/4P	CVS-Ø1000-15/4P	CVS-Ø1000-22/4P	CVS-Ø1000-30/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	7,5	11	15	22	30
CURRENT (A)	13,9	20,6	28	39,9	56,4
SPEED (rpm)	1500	1500	1500	1500	1500
AIR FLOW (m³/h)	56.000	68.000	68.000	80.000	87.500

TECHNICS

MODEL	CVS-Ø1120-11/4P	CVS-Ø1120-15/4P	CVS-Ø1120-18,5/4P	CVS-Ø1120-22/4P	CVS-Ø1120-30/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	11	15	18,5	22	30
CURRENT (A)	20,6	28	34,7	39,9	56,4
SPEED (rpm)	1500	1500	1500	1500	1500
AIR FLOW (m³/h)	64000	70000	82000	90000	102000

MODEL	CVS-Ø1250-15/4P	CVS-Ø1250-18,5/4P	CVS-Ø1250-22/4P	CVS-Ø1250-30/4P	CVS-Ø1250-37/4P	CVS-Ø1250-45/4P
VOLTAGE (V)	400	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50	50
POWER (kW)	15	18,5	22	30	37	45
CURRENT (A)	28	34,7	39,9	56,4	66	79
SPEED (rpm)	1500	1500	1500	1500	1500	1500
AIR FLOW (m³/h)	75250	86250	96500	110000	122500	130000

PERFORMANCES

MODEL	AIR FLOW (m³/h)								
	0 Pa	100 Pa	200 Pa	300 Pa	400 Pa	500 Pa	600 Pa	700 Pa	800 Pa
CVS-Ø400-0,75/2P	6.100	5.700	5.000	4.250	3.500	2.500	2.000	1.500	1.000
CVS-Ø400-1,1/2P	7.400	6.800	6.100	5.500	4.500	3.000	2.500	2.000	1.500
CVS-Ø400-1,5/2P	9.000	8.250	7.500	7.000	6.000	3.750	3.000	2.750	2.250
CVS-Ø400-2,2/2P	11.000	10.300	9.600	8.500	7.500	6.250	5.500	5.000	4.250
CVS-Ø450-1,5/2P	9.500	9.000	8.000	7.000	6.000	5.250	4.000	3.500	3.000
CVS-Ø450-2,2/2P	13.250	12.500	11.750	11.000	10.000	8.000	4.000	3.000	1.500
CVS-Ø450-3/2P	15.000	14.250	13.500	12.250	11.500	9.500	8.500	7.250	6.500
CVS-Ø500-4/2P	18.000	17.000	16.000	15.000	14.000	12.000	10.750	8.000	5.000
CVS-Ø500-5,5/2P	21.500	19.500	18.250	17.500	16.250	14.250	12.500	9.250	8.000
CVS-Ø560-4/2P	22.000	20.500	19.000	18.000	17.000	15.000	13.000	10.000	8.500
CVS-Ø560-7,5/2P	28.000	26.000	24.000	22.250	21.000	19.500	18.000	16.500	15.250
CVS-Ø630-4/2P	20.000	19.000	18.000	17.000	16.000	14.750	13.250	11.500	9.000
CVS-Ø630-5,5/2P	26.000	24.250	23.000	21.250	20.000	17.500	15.000	7.000	4.000
CVS-Ø630-7,5/2P	29.000	28.000	27.000	25.000	22.500	20.500	18.000	15.000	5.000
CVS-Ø630-11/2P	33.500	32.000	30.500	28.500	26.500	25.000	23.000	18.000	16.250

PERFORMANCES

MODEL	AIR FLOW (m³/h)					
	0 Pa	100 Pa	200 Pa	300 Pa	400 Pa	500 Pa
CVS-Ø710-2,2/4P	24.000	22.000	17.500	10.000	-	-
CVS-Ø710-3/4P	26.000	23.500	21.250	17.500	14.000	-
CVS-Ø710-4/4P	30.000	28.000	24.000	21.000	17.500	-
CVS-Ø800-4/4P	27.500	26.000	24.000	21.500	17.500	16.000
CVS-Ø800-5,5/4P	37.500	34.250	31.500	27.500	22.500	18.500
CVS-Ø800-7,5/4P	42.000	38.000	36.000	32.500	27.500	25.000
CVS-Ø900-5,5/4P	44.000	40.500	36.000	30.500	20.000	15.000
CVS-Ø900-7,5/4P	43.000	41.000	38.750	35.750	32.000	26.000
CVS-Ø900-11/4P	50.000	47.500	45.000	42.000	38.000	30.000
CVS-Ø900-15/4P	57.500	55.000	51.500	48.000	42.000	36.500

MODEL	AIR FLOW (m³/h)								
	0 Pa	100 Pa	200 Pa	300 Pa	400 Pa	500 Pa	600 Pa	700 Pa	800 Pa
CVS-Ø1000-7,5/4P	56.000	52.000	47.500	42.500	35.250	20.000	-	-	-
CVS-Ø1000-11/4P	68.000	65.500	62.500	59.000	55.250	50.000	42.000	35.000	30.000
CVS-Ø1000-15/4P	68.000	65.500	62.500	59.000	55.250	50.000	42.000	35.000	30.000
CVS-Ø1000-22/4P	80.000	75.000	71.500	68.000	64.000	58.000	53.000	-	-
CVS-Ø1000-30/4P	87.500	82.500	80.000	75.000	72.000	65.000	55.000	45.000	-
CVS-Ø1120-11/4P	64.000	60.000	57.000	52.000	48.000	42.500	37.000	29.000	-
CVS-Ø1120-15/4P	70.000	65.000	60.500	57.500	55.000	52.000	48.000	43.000	27.500
CVS-Ø1120-18,5/4P	82.000	78.500	75.000	70.000	67.000	62.000	42.000	35.500	27.000
CVS-Ø1120-22/4P	90.000	85.000	82.000	78.000	74.000	68.000	58.000	51.000	42.000
CVS-Ø1120-30/4P	102.000	97.500	91.500	85.000	82.500	78.750	66.250	52.000	-
CVS-Ø1250-15/4P	75.250	70.000	65.000	60.000	53.000	43.000	39.000	29.000	-
CVS-Ø1250-18,5/4P	86.250	82.000	77.750	72.500	66.000	57.000	46.750	42.000	-
CVS-Ø1250-22/4P	96.500	91.750	86.750	81.250	74.000	65.000	54.000	40.000	-
CVS-Ø1250-30/4P	110.000	107.000	103.000	99.000	93.500	87.000	69.000	52.000	45.000
CVS-Ø1250-37/4P	122.500	117.500	78.250	106.000	98.000	86.000	65.000	-	-
CVS-Ø1250-45/4P	130.000	125.000	117.500	110.000	102.500	92.500	85.000	75.000	65.000

EXPROOF RADIAL ROOF FANS

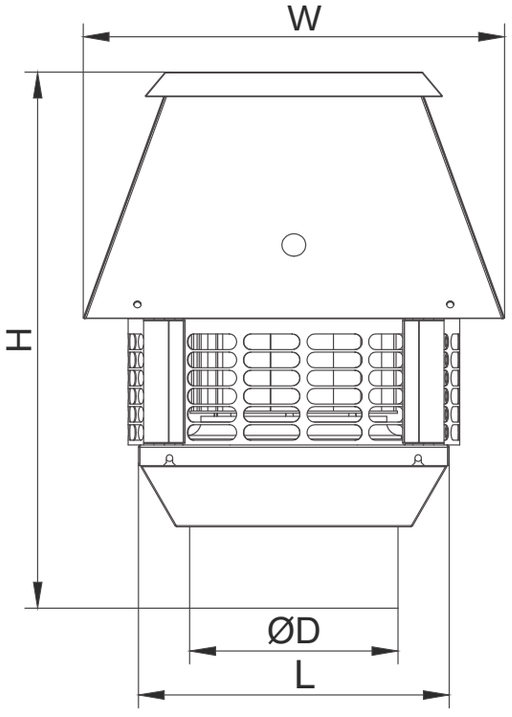
ENERGY EFFICIENT LONG LIFE

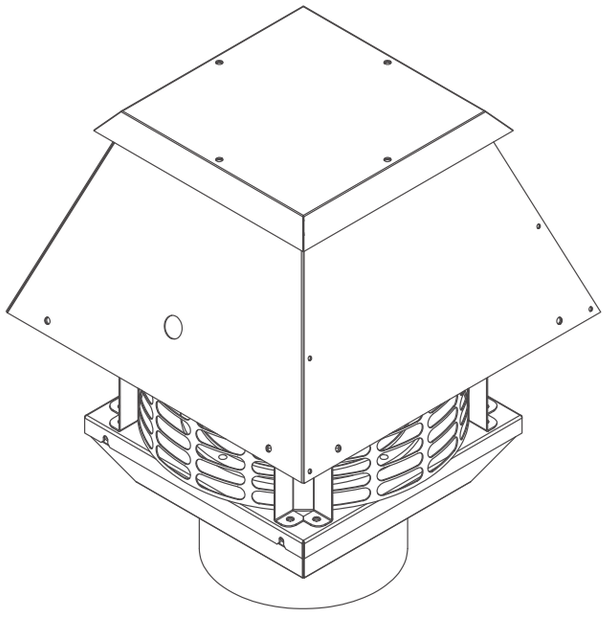
PRODUCT FEATURES

- Fan emiş hunisi alüminyum döküm Aluminium casting suction nozzle
- Fan öne eğimli sık kanatlı komple galvaniz sac Forward curved impeller completely galvanized sheet
- Motor koruma sınıfı IP 55 Motor protection class IP 55
- Konstrüksiyon yapısı galvaniz üstü elektrostatik fırın boyalı Electrostatic oven-drying over galvanized construction
- II 2G Ex d IIC T4
  II 2D Ex d IIIB T130 °C

TECHNICS

MODEL	RD 200
VOLTAGE (V)	400
FREQUENCY (Hz)	50
POWER (kW)	0,18
CURRENT (A)	0,75
SPEED (rpm)	1330
AIR FLOW (m³/h)	700
STATIC PRESSURE (Pa)	30
PROTECTION RATING	IP55

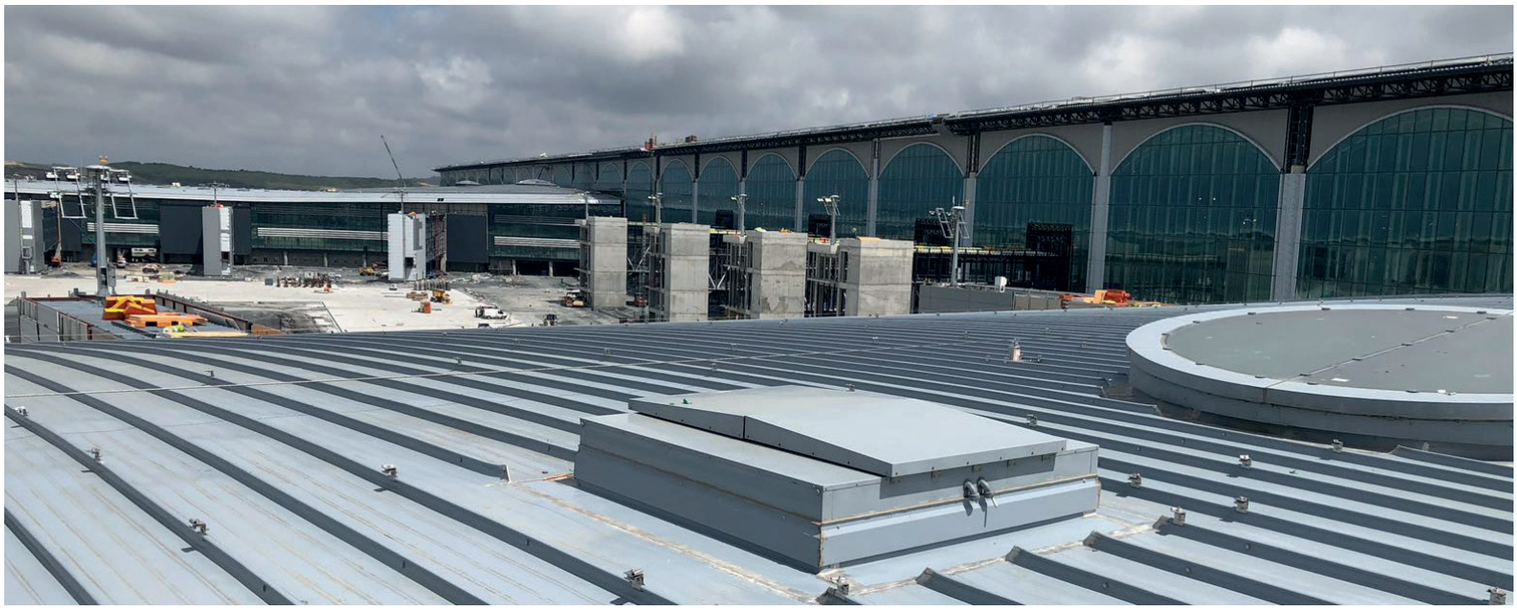




DIMENSIONS

MODEL	ØD	H	L	W
RD 200	200	517,5	300	407

İSTANBUL
NEW AIRPORT
3rd Biggest In The World



VENTILATION FAN UNITS

www.cvsair.com.tr

Cvsair®

www.cvsair.com.tr

Farm Fans

FARM FANS

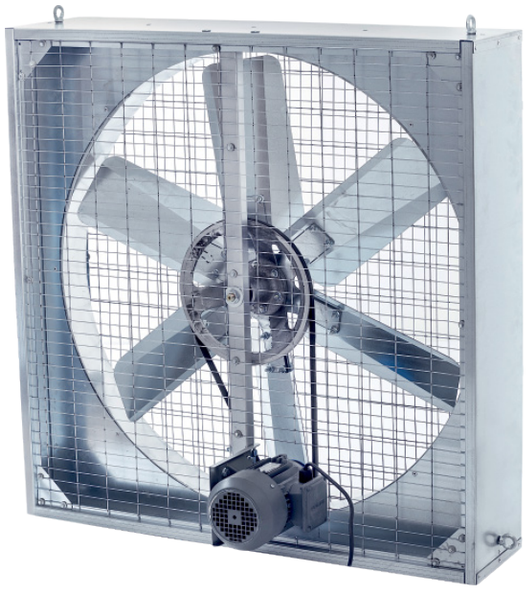
ENERGY EFFICIENT LONG LIFE

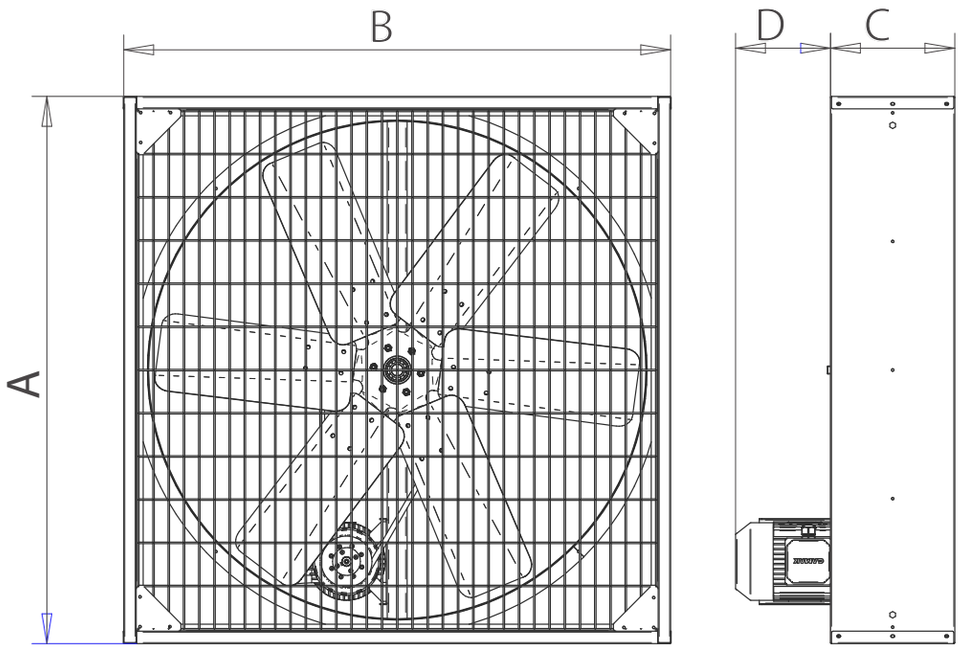
PRODUCT FEATURES

- Havalandırma fan gövdeleri ve kanatları galvanizli çelik sacdan üretilmektedir The main bodies and wings of vantilation fans are made of galvanized steel sheet
- Kanat yapısı kuvveti ve verimliliği arttırmak için özel bir kavise sahiptir Wing structure has unique curves which increase power and efficiency
- Enerji tasarrufu sağlayacak şekilde üretilmiştir Designed to ensure energy saving
- Fanlar sahip oldukları motor - kayış kasnak
- sistemi ile sessiz bir şekilde çalışırlar Silent running due to special motor structure
- Özel olarak yapılmış koruma teli fanların arka ve ön kısmındadır There is special design protection wire at the back side and front of the fans
- Fanlar havalandırma sorunları bulunan bütün kapalı alanlarda kümes hayvanları çiftliklerinin havalandırma ve soğutulmasında, sığır ahırlarının havalandırma ve soğutulmasında, mantar üretim tesisleri, sebze seralarında ve fabrika - atölye vb. çalışma ortamlarında bulunan gaz, duman, toz ve kötü kokuların dışarı atılmasında kullanılmaktadır Areas of Usage: In all closed areas having ventilation problems; for ventilating and cooling of poultry farms, for ventilating and cooling cattle stables, for ventilating and cooling green houses, in farming plants of vegetables for extraction of the gas, smoke, dust, odour, etc. in factories, workshops and similar places

TECHNICS

MODEL	AC 110	AC 140
VOLTAGE (V)	380	380
FREQUENCY (Hz)	50	50
POWER (kW)	0,55	0,75
CURRENT (A)	2	2
AIR FLOW (m^3/h)	29000	34000
SPEED (rpm)	460	460
WEIGHT (Kg)	38	48
SOUND PL (dB)A 3m	65	70

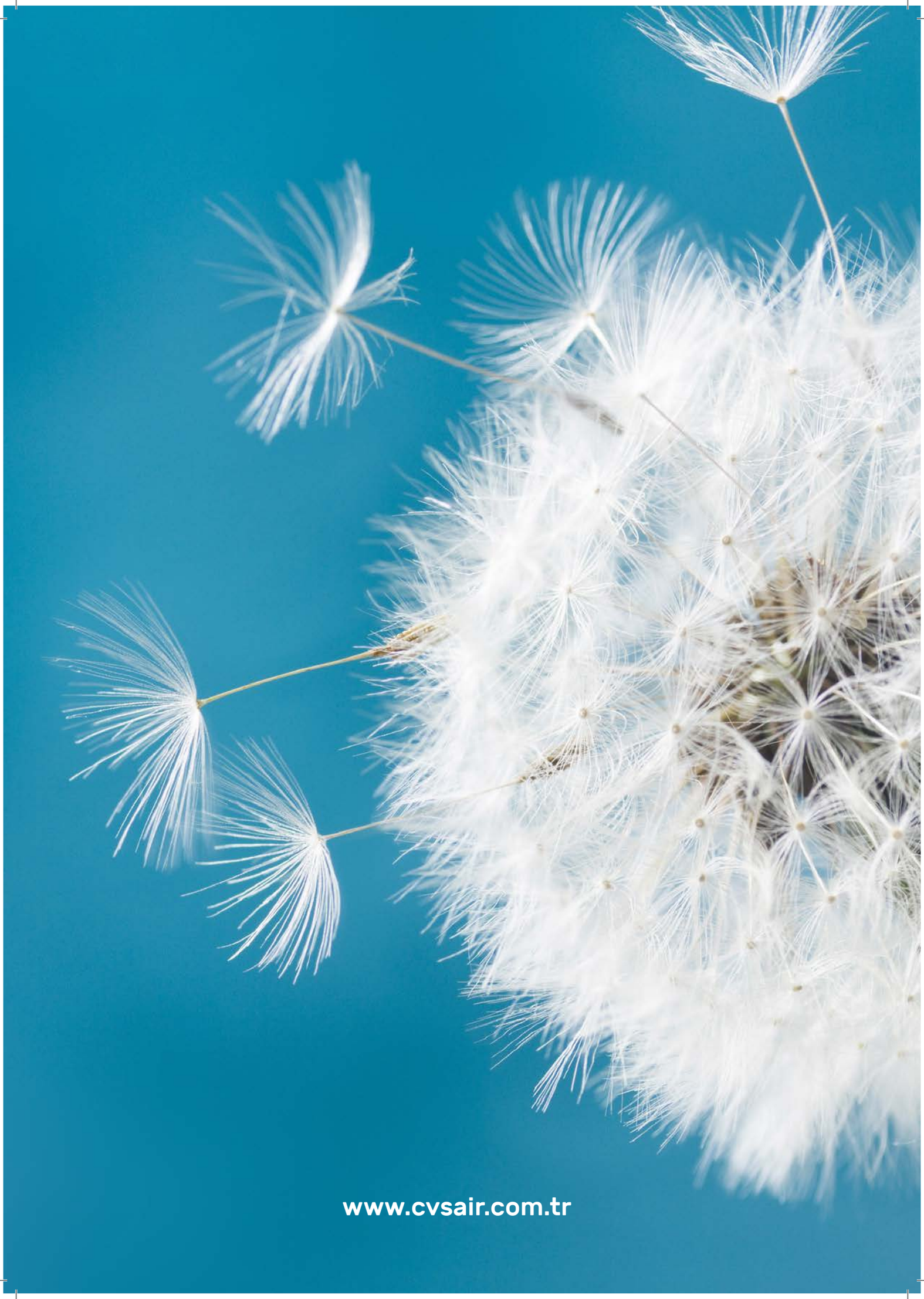




DIMENSIONS

MODEL	A	B	C	D
AC 110	1100	1100	250	185
AC 140	1380	1380	250	185


Cvsair®



www.cvsair.com.tr

www.cvsair.com.tr

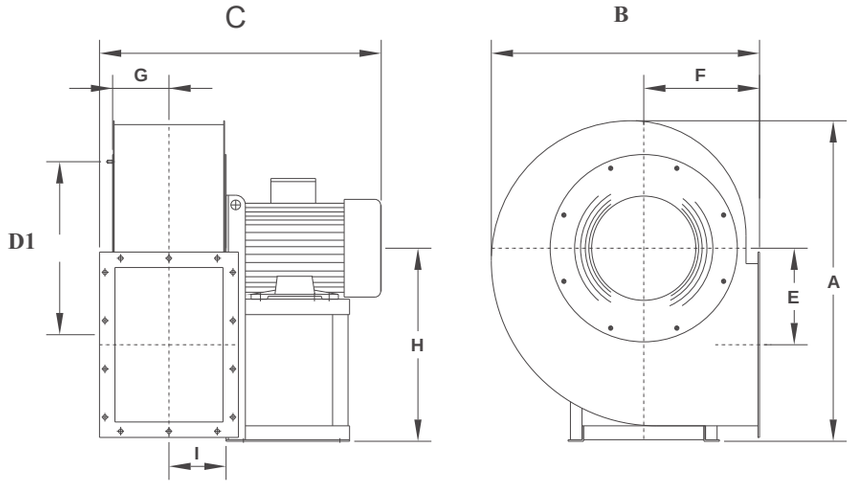
Radial Fans

RADIAL FANS

ENERGY
EFFICIENT
LONG LIFE

PRODUCT FEATURES

- Çelik sac gövde Steel sheet case
- Maksimum taşınacak hava sıcaklığı: -25 ^{0}C + 80 ^{0}C
  Maximum temperature of air to be conveyed:
  -25 ^{0}C + 80 ^{0}C
- IE3 verimli motor IE3 efficiency motors
- Düşük ses seviyesi Low sound level



PERFORMANCES

MODEL	AIR FLOW (m³/h)										
	750 Pa	1000 Pa	1250 Pa	1500 Pa	1750 Pa	2000 Pa	2250 Pa	2500 Pa	2750 Pa	3000 Pa	3250 Pa
CSF 31	5000	4400	3600	2250							
CSF 35			6300	4800	2750						
CSF 38		8500	7900	6750	5500						
CSF 40	10800	10000	9000	7800	6600	5000					
CSF 43			12300	11600	10750	9650	7900				
CSF 45			15300	13700	12500	11000	9700	8000	5000		
CSF 48				17150	16600	15900	14700	13200	11200	9500	
CSF 50			21800	21000	20200	19400	17800	16000	14300	13000	10300

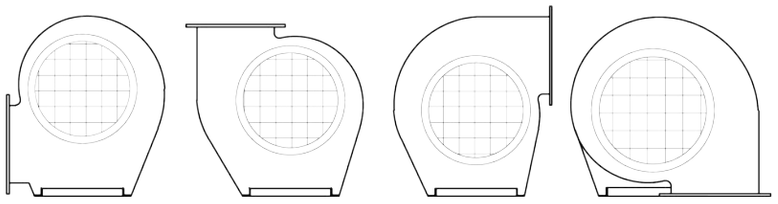
PERFORMANCES

MODEL	AIR FLOW (m³/h)							
	150 Pa	300 Pa	450 Pa	600 Pa	750 Pa	900 Pa	1050 Pa	1200 Pa
CSF 33	3100	1950						
CSF 35	3500	2350						
CSF 40		4200	2350					
CSF 43	6250	5600	4100					
CSF 45		7000	5400	3050				
CSF 48		8750	7750	6150				
CSF 50			9100	7500	5100			
CSF 53		12500	11700	10900	9100	6000		
CSF 56				12500	10700	8000		
CSF 60			17600	16700	15800	14100	11500	7300

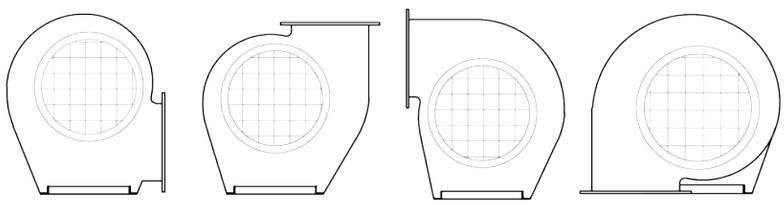
PERFORMANCES

MODEL	AIR FLOW (m³/h)									
	600 Pa	900 Pa	1200 Pa	1500 Pa	1800 Pa	2100 Pa	2400 Pa	2700 Pa	3000 Pa	3300 Pa
CSF 63		17000	11100							
CSF 66		23000	18500	10000						
CSF 71	31400	27800	22000	16000						
CSF 75		34700	32600	29000	23750					
CSF 80		43200	37600	32000	25750	16000				
CSF 85				42000	37000	28000				
CSF 88			49500	46000	43000	36000	22000			
CSF 90			56000	53000	48000	42000	34500	23000		
CSF 95			69500	66500	63000	58000	53000	46000	28000	
CSF 100				84000	77500	69500	62000	54000	45000	33000

POSITIONS



SR-270 SR-360 SR-90 SR-180



SL-270 SL-360 SL-90 SL-180

DIMENSIONS

MODEL	A	B	C	E	F	G	H	I	D1
CSF 31	740	620	575	225	265	130	450	132	405
CSF 35	740	620	640	225	265	130	450	132	405
CSF 38	830	695	670	250	300	146	500	148	448
CSF 40	830	695	730	250	300	146	500	148	448
CSF 43	930	780	765	280	335	164	560	166	497
CSF 45	930	780	905	280	335	164	560	166	497
CSF 48	1040	850	945	315	355	184	630	186	551
CSF 50	1040	850	945	315	355	184	630	186	551
CSF 33	740	620	500	225	265	130	450	132	405
CSF 35	740	620	500	225	265	130	450	132	405
CSF 40	830	695	560	250	300	146	500	148	448
CSF 43	930	780	600	280	335	164	560	166	497
CSF 45	930	780	635	280	335	164	560	166	497
CSF 48	1040	850	675	315	355	184	630	186	551
CSF 50	1040	850	745	315	355	184	630	186	551
CSF 53	1040	850	945	315	355	184	630	186	551
CSF 56	1040	850	945	315	355	184	630	186	551
CSF 60	1320	1075	910	400	450	233	800	235	698
CSF 63	1320	1075	910	400	450	233	800	235	698
CSF 66	1490	1200	1100	450	500	258	900	260	775
CSF 71	1490	1200	1100	450	500	258	900	260	775
CSF 75	1650	1340	1240	500	560	286	1000	283	861
CSF 80	1650	1340	1240	500	560	286	1000	283	861
CSF 85	1780	1490	1310	535	630	322	1060	318	958
CSF 88	1780	1490	1390	535	630	322	1060	318	958
CSF 90	1780	1490	1390	535	630	322	1060	318	958
CSF 95	1980	1670	1470	610	710	362	1180	360	1067
CSF 100	1980	1670	1600	610	710	362	1180	360	1067

TECHNICS

MODEL	CSF 31	CSF 35	CSF 38	CSF 40	CSF 43	CSF 45	CSF 48	CSF 50
VOLTAGE (V)	380	380	380	380	380	380	380	380
FREQUENCY (Hz)	50	50	50	50	50	50	50	50
POWER (kW)	2,2	3	4	5,5	7,5	11	15	18,5
CURRENT (A)	4,94	6,5	8,2	11,3	15,4	22,4	28,5	35
SPEED (rpm)	2850	2900	2900	2900	2900	2930	2935	2935
SOUND PL (dB)A 3m	61	62	63	66	68	69	68	73

MODEL	CSF 33	CSF 35	CSF 40	CSF 43	CSF 45	CSF 48	CSF 50
VOLTAGE (V)	380	380	380	380	380	380	380
FREQUENCY (Hz)	50	50	50	50	50	50	50
POWER (kW)	0,25	0,37	0,55	0,75	1,1	1,5	2,2
CURRENT (A)	0,87	1,2	1,6	2,1	2,7	3,6	5,2
SPEED (rpm)	1360	1360	1370	1380	1390	1400	1420
SOUND PL (dB)A 3m	48	49	49	43	54	55	56

MODEL	CSF 53	CSF 56	CSF 60	CSF 63	CSF 66	CSF 71	CSF 75
VOLTAGE (V)	380	380	380	380	380	380	380
FREQUENCY (Hz)	50	50	50	50	50	50	50
POWER (kW)	3	4	5,5	7,5	11	15	18,5
CURRENT (A)	6,8	8,6	11,8	15,8	22,6	30,5	38
SPEED (rpm)	1430	1430	1440	1450	1460	1460	1470
SOUND PL (dB)A 3m	57	57	59	60	62	63	66

MODEL	CSF 80	CSF 85	CSF 88	CSF 90	CSF 95	CSF 100
VOLTAGE (V)	380	380	380	380	380	380
FREQUENCY (Hz)	50	50	50	50	50	50
POWER (kW)	22	30	37	45	55	75
CURRENT (A)	44	57	70	84	102	140
SPEED (rpm)	1470	1470	1475	1475	1475	1480
SOUND PL (dB)A 3m	67	69	70	70	71	72

HEAVY DUTY RADIAL FANS

ENERGY EFFICIENT LONG LIFE

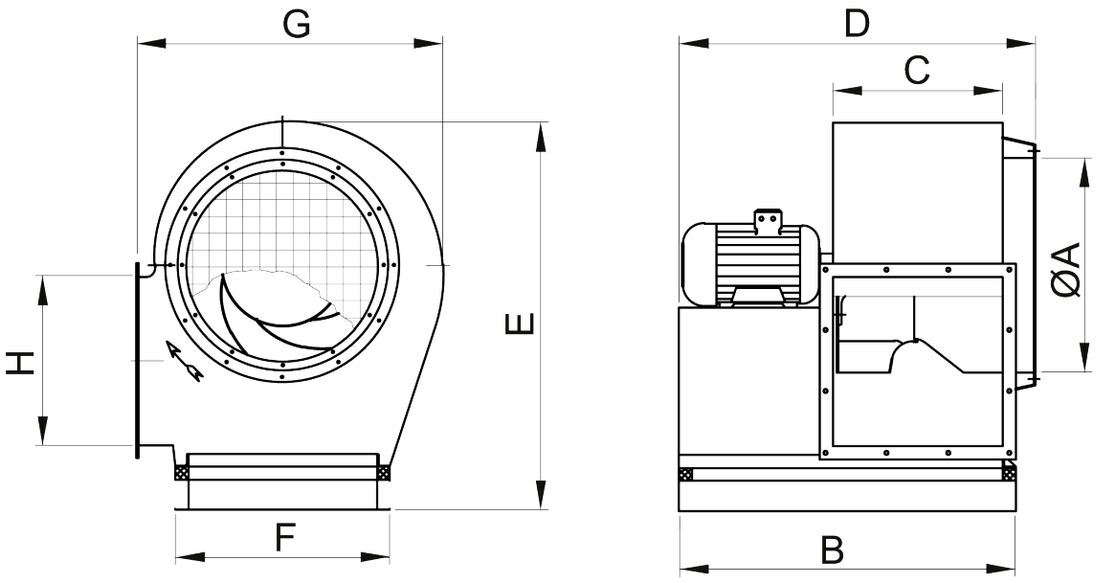
PRODUCT FEATURES

- Yüksek basınçlı radyal duman egzoz fanı High-pressure centrifual smoke exhaust fan
- EN 12101-3 sertifikalı 300 °C / 2h - 400 °C /2h EN 12101-3 certified 300 °C / 2h - 400 °C /2h
- Enerji tasarrufu sağlayacak şekilde üretilmiştir
- Çift devirli / Frekans invertörü ile kullanılmaya uygun Suitable to use double speed / with frequency invertor
- Yüksek dayanımlı malzemeden imal Made of high resistance material

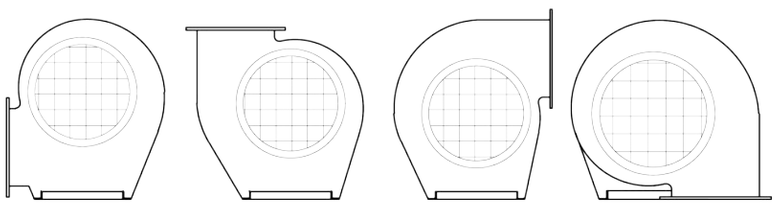
DIMENSIONS

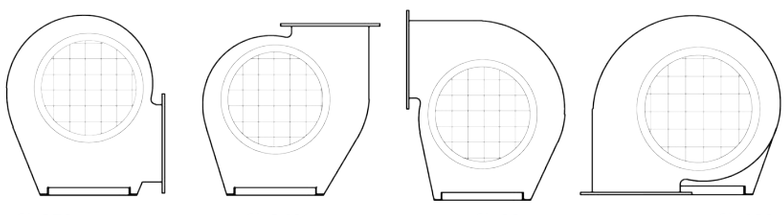
MODEL	TYPE	A	B	C	D	E	F	G	H
CVS-ERV 63-7,5/4P	63/4	631	1100	566	1150	1271	708	1025	560
CVS-ERV 71-15/4P	71/4	708	1240	636	1330	1410	794	1149	630
CVS-ERV 80-22/4P	80/4	794	1375	716	1465	1587	891	1290	708
CVS-ERV 90-37/4P	90/4	891	1524	798	1614	1761	1000	1447	790
CVS-ERV 100-75/4P	100/4	1000	1775	893	1861	1958	1122	1623	885
CVS-ERV 71-5,5/6P	71/6	708Ø	1118	636	1208	1410	794	1149	630
CVS-ERV 80-11/6P	80/6	794Ø	1234	716	1321	1587	891	1290	708
CVS-ERV 90-15/6P	90/6	891Ø	1500	798	1585	1761	1000	1447	790
CVS-ERV 100-30/6P	100/6	1000Ø	1708	893	1793	1958	1122	1623	885

*All dimensions are in mm.



POSITIONS





HEAVY DUTY RADIAL FANS

PERFORMANCES

MODEL	AIR FLOW (m³/h)				
	600 Pa	900 Pa	1200 Pa	1400 Pa	1600 Pa
CVS-ERV 63-7,5/4P	19000	16800	13000	10700	7300

MODEL	AIR FLOW (m³/h)				
	750 Pa	1150 Pa	1500 Pa	1750 Pa	2000 Pa
CVS-ERV 71-15/4P	27000	24000	18500	15500	10500

MODEL	AIR FLOW (m³/h)				
	950 Pa	1450 Pa	1950 Pa	2250 Pa	2600 Pa
CVS-ERV 80-22/4P	39000	34500	26500	22000	15000

MODEL	AIR FLOW (m³/h)				
	1250 Pa	1850 Pa	2450 Pa	2850 Pa	3200 Pa
CVS-ERV 90-37/4P	55500	49000	38000	31000	21000

MODEL	AIR FLOW (m³/h)				
	1500 Pa	2300 Pa	3000 Pa	3500 Pa	4000 Pa
CVS-ERV 100-75/4P	76000	67000	52000	43000	29000

MODEL	AIR FLOW (m³/h)				
	400 Pa	500 Pa	600 Pa	600 Pa	1000 Pa
CVS-ERV 71-5,5/6P	19000	17500	16000	12300	7000

MODEL	AIR FLOW (m³/h)				
	500 Pa	650 Pa	750 Pa	1000 Pa	1250 Pa
CVS-ERV 80-11/6P	27000	25000	23000	17500	10000

MODEL	AIR FLOW (m³/h)				
	650 Pa	800 Pa	950 Pa	1300 Pa	1600 Pa
CVS-ERV 90-15/6P	39000	35000	32500	25000	14000

MODEL	AIR FLOW (m³/h)				
	800 Pa	1000 Pa	1200 Pa	1600 Pa	2000 Pa
CVS-ERV 100-30/6P	53000	49000	44700	34500	19500

cvsair®

CAR PARKS

www.cvsair.com.tr

www.cvsair.com.tr

Cabinet Fans

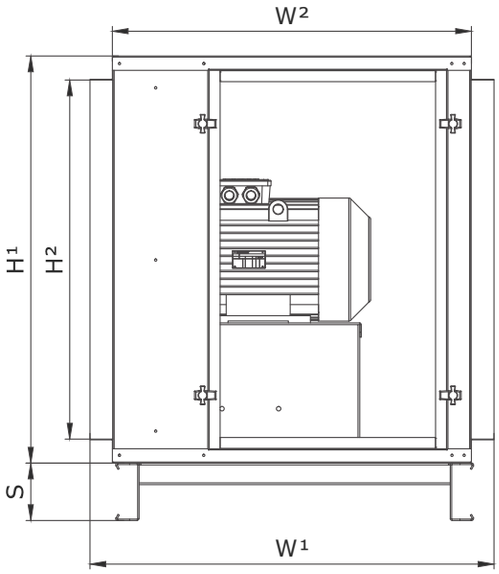

magic
YUMMY
THE GALLERIA
Wolford

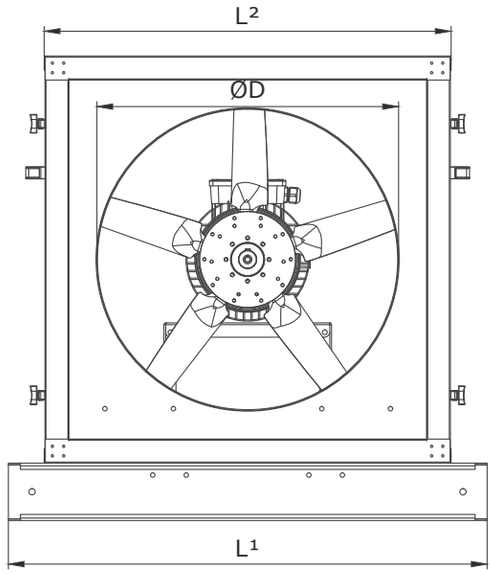
CABINET AXIAL FANS

ENERGY EFFICIENT LONG LIFE

PRODUCT FEATURES

- Galvaniz sac üzeri elektrostatik fırın boyalı gövde Galvanised sheet metal with electrostatic oven drying case
- En yüksek verim için ayarlanabilir kanat açısı Adjustable blade angles for maximum efficiency
- Frekans invertörü ile çalışmaya uygun trifaze motorlar (F300) Three-phased motors suitable to operate with frequency inverters (F300)
- Çift devirli motor seçeneği Double speed motor option
- EN 12101-3 standardına uygun, sertifikalı Certificated according to EN 12101-3
- 60 Hz seçeneği mevcuttur 60 Hz option is available





DIMENSIONS

MODEL	ØD	H1	H2	W1	W2	L1	L2	S
CVS-H-Ø400	Ø400	700	600	594	500	850	700	120
CVS-H-Ø450	Ø450	700	600	594	500	850	700	120
CVS-H-Ø500	Ø500	750	650	744	650	900	750	120
CVS-H-Ø560	Ø560	750	650	744	650	900	750	120
CVS-H-Ø630	Ø630	850	750	844	750	1000	850	120
CVS-H-Ø710	Ø710	1000	900	994	800	1100	1000	120
CVS-H-Ø800	Ø800	1000	900	994	800	1100	1000	120
CVS-H-Ø900	Ø900	1200	1100	894	800	1300	1200	120
CVS-H-Ø1000	Ø1000	1200	1100	894	800	1300	1200	120
CVS-H-Ø1120	Ø1120	1500	1300	894	800	1650	1500	120
CVS-H-Ø1250	Ø1250	1500	1300	894	800	1650	1500	120

CABINET AXIAL FANS

TECHNICS

MODEL	CVS-H-Ø400-0,55/2P	CVS-H-Ø400-0,75/2P	CVS-H-Ø400-1,1/2P	CVS-H-Ø400-1,5/2P	CVS-H-Ø400-2,2/2P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	0,55	0,75	1,1	1,5	2,2
CURRENT (A)	1,27	1,9	2,55	3,45	4,94
SPEED (rpm)	2780	2800	2800	2835	2840
AIR FLOW (m³/h)	6000	7000	8000	9000	10500
SOUND PL (dB) 3m	63	64	64	66	68
WIRING DIAGRAM	Y	Y	Y	Y	Y

MODEL	CVS-H-Ø450-1,1/2P	CVS-H-Ø450-1,5/2P	CVS-H-Ø450-2,2/2P	CVS-H-Ø450-3/2P
VOLTAGE (V)	400	400	400	400
FREQUENCY (Hz)	50	50	50	50
POWER (kW)	1,1	1,5	2,2	3
CURRENT (A)	2,55	3,45	4,94	6,5
SPEED (rpm)	2800	2835	2840	2850
AIR FLOW (m³/h)	9500	11500	12500	14250
SOUND PL (dB) 3m	62	66	67	69
WIRING DIAGRAM	Y	Y	Y	Y

TECHNICS

MODEL	CVS-H-Ø500-1,5/2P	CVS-H-Ø500-2,2/2P	CVS-H-Ø500-3/2P	CVS-H-Ø500-4/2P	CVS-H-Ø500-5,5/2P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	1,5	2,2	3	4	5,5
CURRENT (A)	3,45	4,94	6,5	8,2	11,3
SPEED (rpm)	2835	2840	2850	2850	2870
AIR FLOW (m³/h)	11000	13000	15500	17000	20000
SOUND PL (dB) 3m	63	66	69	71	73
WIRING DIAGRAM	Y	Y	Y	Y	D or Y-D

MODEL	CVS-H-Ø560-2,2/2P	CVS-H-Ø560-3/2P	CVS-H-Ø560-4/2P	CVS-H-Ø560-5,5/2P	CVS-H-Ø560-7,5/2P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER k(W)	2,2	3	4	5,5	7,5
CURRENT (A)	4,94	6,5	8,2	11,3	15,4
SPEED (rpm)	2840	2850	2850	2870	2890
AIR FLOW (m³/h)	14000	17000	20500	23000	26500
SOUND PL (dB) 3m	65	68	71	73	75
WIRING DIAGRAM	Y	Y	Y	D or Y-D	D or Y-D

CABINET AXIAL FANS

TECHNICS

MODEL	CVS-H-Ø630-5,5/2P	CVS-H-Ø630-7,5/2P	CVS-H-Ø630-11/2P	CVS-H-Ø630-15/2P	CVS-H-Ø630-18,5/2P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	5,5	7,5	11	15	18,5
CURRENT (A)	11,3	15,4	22,4	28,5	35
SPEED (rpm)	2870	2890	2935	2940	2940
AIR FLOW (m³/h)	25500	30000	27500	31000	34250
SOUND PL (dB) 3m	72	76	77	83	85
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D

MODEL	CVS-H-Ø710-1,5/4P	CVS-H-Ø710-2,2/4P	CVS-H-Ø710-3/4P	CVS-H-Ø710-4/4P	CVS-H-Ø710-5,5/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	1,5	2,2	3	4	5,5
CURRENT (A)	3,6	5,2	6,8	8,6	11,8
SPEED (rpm)	1385	1400	1410	1425	1430
AIR FLOW (m³/h)	19000	23000	25000	28000	30000
SOUND PL (dB) 3m	65	67	69	71	71
WIRING DIAGRAM	Y	Y	Y	Y	D or Y-D

TECHNICS

MODEL	CVS-H-Ø800-2,2/4P	CVS-H-Ø800-3/4P	CVS-H-Ø800-4/4P	CVS-H-Ø800-5,5/4P	CVS-H-Ø800-7,5/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	2,2	3	4	5,5	7,5
CURRENT (A)	5,2	6,8	8,6	11,8	15,8
SPEED (rpm)	1400	1410	1425	1430	1430
AIR FLOW (m³/h)	26000	30500	34000	38000	40000
SOUND PL (dB) 3m	67	69	71	73	73
WIRING DIAGRAM	Y	Y	Y	D or Y-D	D or Y-D

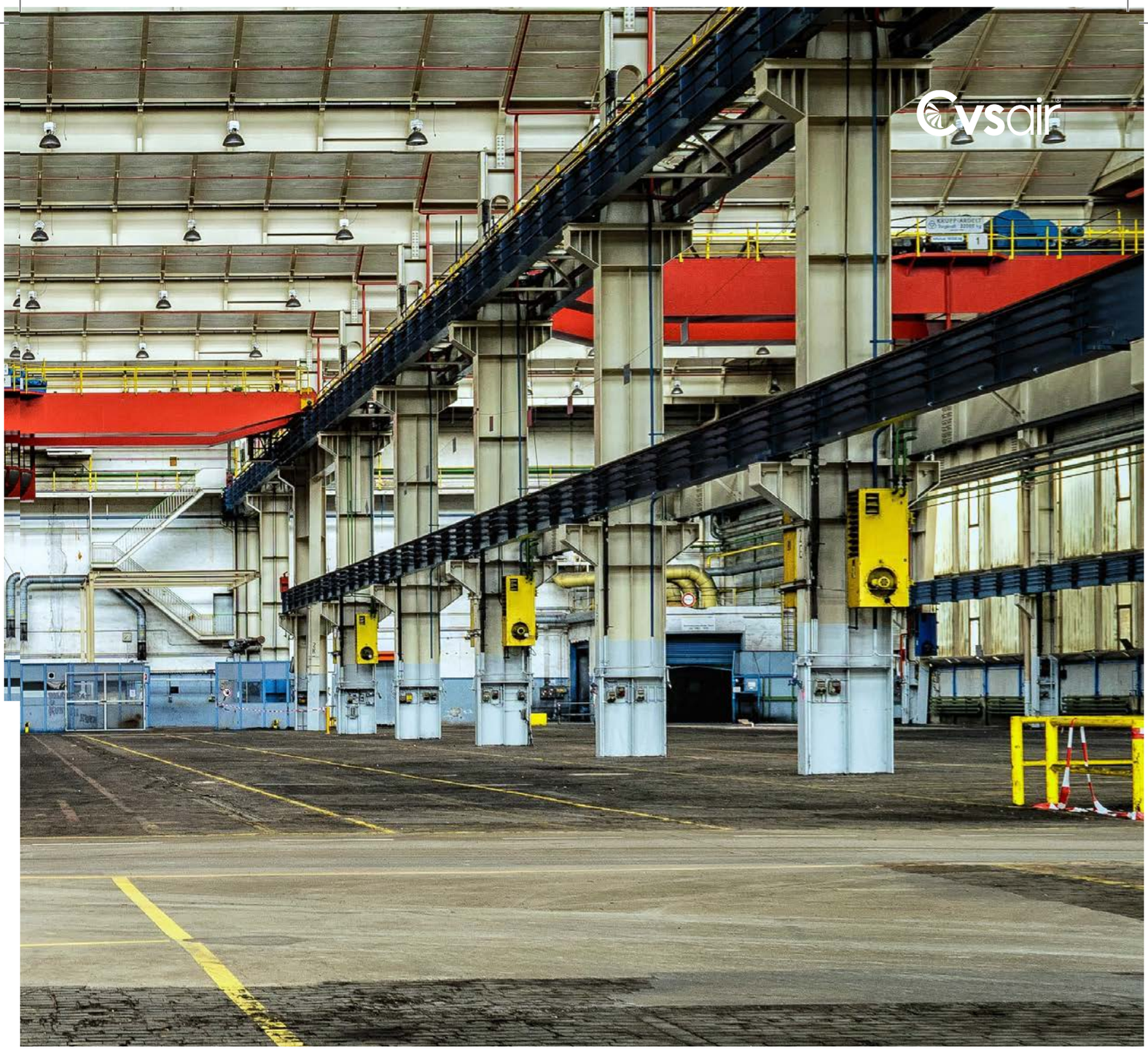
MODEL	CVS-H-Ø900-4/4P	CVS-H-Ø900-5,5/4P	CVS-H-Ø900-7,5/4P	CVS-H-Ø900-11/4P	CVS-H-Ø900-15/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	4	5,5	7,5	11	15
CURRENT (A)	8,6	11,8	15,8	22,6	30,5
SPEED (rpm)	1425	1430	1430	1455	1460
AIR FLOW (m³/h)	40000	44000	47500	52500	55000
SOUND PL (dB) 3m	70	71	73	76	76
WIRING DIAGRAM	Y	D or Y-D	D or Y-D	D or Y-D	D or Y-D

CABINET AXIAL FANS

TECHNICS

MODEL	CVS-H-Ø1000-7,5/4P	CVS-H-Ø1000-11/4P	CVS-8-Ø1000-15/4P	CVS-H-Ø1000-18,5/4P	CVS-H-Ø1000-22/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	7,5	11	15	18,5	22
CURRENT (A)	15,8	22,6	30,5	38	44
SPEED (rpm)	1430	1455	1460	1460	1455
AIR FLOW (m³/h)	56000	58000	69500	66000	74000
SOUND PL (dB) 3m	73	74	78	77	79
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D

MODEL	CVS-H-Ø1120-15/4P	CVS-H-Ø1120-18,5/4P	CVS-H-Ø1120-22/4P	CVS-H-Ø1120-30/4P	CVS-H-Ø1120-37/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	15	18,5	22	30	37
CURRENT (A)	30,5	38	44	57	70
SPEED (rpm)	1460	1460	1455	1460	1465
AIR FLOW (m³/h)	75000	81000	87000	98000	108000
SOUND PL (dB) 3m	76	78	79	81	83
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D



TECHNICS

MODEL	CVS-H-Ø1250-18,5/4P	CVS-H-Ø1250-22/4P	CVS-H-Ø1250-30/4P	CVS-H-Ø1250-37/4P	CVS-H-Ø1250-45/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	18,5	22	30	37	45
CURRENT (A)	38	44	57	70	84
SPEED (rpm)	1460	1455	1460	1465	1465
AIR FLOW (m³/h)	86000	93000	106000	122000	128000
SOUND PL (dB) 3m	74	79	79	82	82
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D

CABINET AXIAL FANS

PERFORMANCES

MODEL	AIRFLOW (m³/h)						
	0 Pa	150 Pa	300 Pa	450 Pa	600 Pa	750 Pa	900 Pa
CVS-H-Ø400-0,55/2P	6000	5250	4000				
CVS-H-Ø400-0,75/2P	7000	6200	4900	2500			
CVS-H-Ø400-1,1/2P	8000	7300	5800				
CVS-H-Ø400-1,5/2P	9000	7800	6400				
CVS-H-Ø400-2,2/2P	10500	9300	7700				
CVS-H-Ø450-1,1/2P	9500	8500	6750				
CVS-H-Ø450-1,5/2P	11500	10200	8600	5600			
CVS-H-Ø450-2,2/2P	12500	11300	9600	7000			
CVS-H-Ø450-3/2P	14250	12700	10800				
CVS-H-Ø500-1,5/2P	11000	10500	8100	6100			
CVS-H-Ø500-2,2/2P	13000	12000	10200	8200			
CVS-H-Ø500-3/2P	15500	14200	12500	10600	6800		
CVS-H-Ø500-4/2P	17000	14900	14000	12000	8300		
CVS-H-Ø500-5,5/2P	20000	18200	16000	12800	10200		
CVS-H-Ø560-2,2/2P	14000	12600	10700	8750	5700		
CVS-H-Ø560-3/2P	17000	15600	14000	11800	8900		
CVS-H-Ø560-4/2P	20500	19000	17400	15200	12200		
CVS-H-Ø560-5,5/2P	23000	21400	19400	15300	14600		
CVS-H-Ø560-7,5/2P	26500	24000	22000	19700	17000		

PERFORMANCES

MODEL	AIRFLOW (m³/h)						
	0 Pa	150 Pa	300 Pa	450 Pa	600 Pa	750 Pa	900 Pa
CVS-H-Ø630-5,5/2P	25500	24000	21600	19000	15800		
CVS-H-Ø630-7,5/2P	30000	26000	24400	22800	21200	19400	17500
CVS-H-Ø630-11/2P	29400	27200	24800	22000	184000	13400	
CVS-H-Ø630-15/2P	31000	29400	27700	26000	24000	22000	19800
CVS-H-Ø630-18,5/2P	34250	32600	31000	29000	27000	24400	21700
CVS-H-Ø710-1,5/4P	19000	14800	7800				
CVS-H-Ø710-2,2/4P	23000	17900					
CVS-H-Ø710-3/4P	25000	20200					
CVS-H-Ø710-4/4P	28000	24600	19750				
CVS-H-Ø710-5,5/4P	30000	24000					
CVS-H-Ø800-2,2/4P	26000	20000					
CVS-H-Ø800-3/4P	30500	24500	13000				
CVS-H-Ø800-4/4P	34000	29000	23000				
CVS-H-Ø800-5,5/4P	38000	32300	20000				
CVS-H-Ø800-7,5/4P	40000	35500	30000				
CVS-H-Ø900-4/4P	40000	33000	24500				
CVS-H-Ø900-5,5/4P	44000	38000	30000				
CVS-H-Ø900-7,5/4P	47500	41500	32700				
CVS-H-Ø900-11/4P	52500	48000	42000	30000			
CVS-H-Ø900-15/4P	55000	50000	45500	35500			
CVS-H-Ø1000-7,5/4P	56000	50000	42500	27000			
CVS-H-Ø1000-11/4P	58000	53000	47500	38000			
CVS-H-Ø1000-15/4P	69500	62000	57000	50000			
CVS-H-Ø1000-18,5/4P	66000	64000	59600	50000			
CVS-H-Ø1000-22/4P	74000	67000	60000	48500			
CVS-H-Ø1120-15/4P	75000	69500	63000	55500	44000		
CVS-H-Ø1120-18,5/4P	81000	75500	69000	61500	50000		
CVS-H-Ø1120-22/4P	87000	82300	75000	67000	56000		
CVS-H-Ø1120-30/4P	98000	90000	82500	70000			
CVS-H-Ø1120-37/4P	108000	102000	94000	80000			
CVS-H-Ø1250-18,5/4P	86000	80000	73000	62000	46000		
CVS-H-Ø1250-22/4P	93000	87000	80000	73500	65000		
CVS-H-Ø1250-30/4P	106000	99000	90000	78000	60000		
CVS-H-Ø1250-37/4P	122000	115000	105000	93000	68000		
CVS-H-Ø1250-45/4P	128000	121000	114000	105000	92000		

CABINET PLUG FANS

ENERGY EFFICIENT LONG LIFE

PRODUCT FEATURES

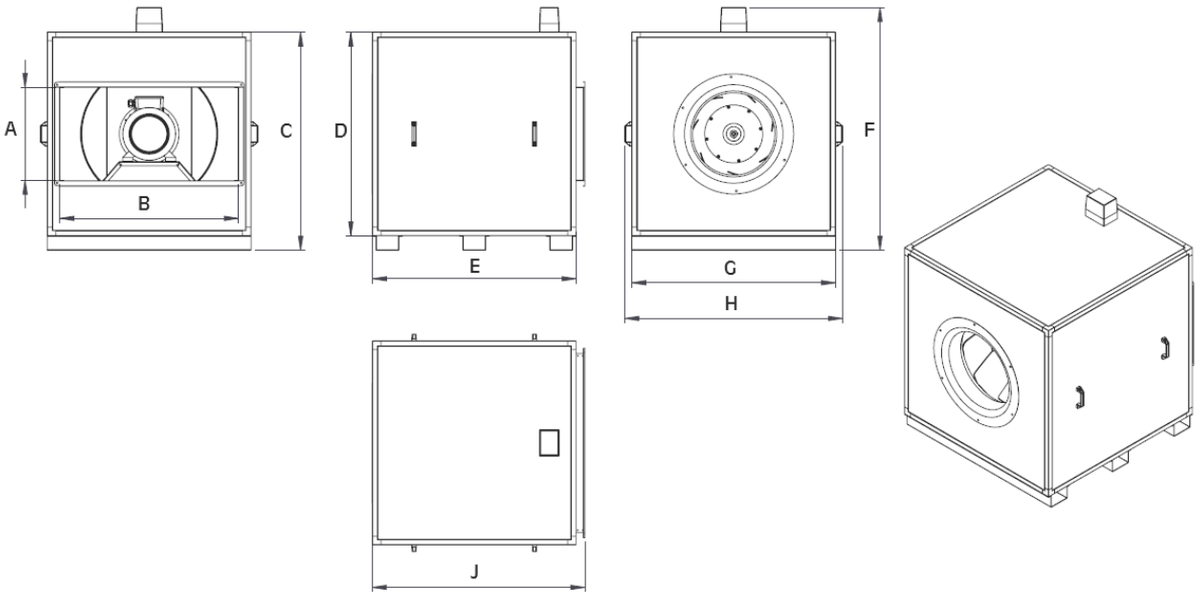
- Çift cidarlı gövde yapısına sahiptir. 25 mm kalınlığında kaya yünü kullanılarak ısı ve ses izolasyonu sağlanmaktadır Double Walled Casing. 25 mm thick rock wool is used for heat and sound insulation
- Dış saclar boyalı, iç saclar yüksek korozyon direncine sahip AZ 150 Aluzinc sacdan imal edilmiştir The outer sheets are painted and the inner sheets are manufactured from AZ 150 Aluzinc sheet with high corrosion resistance
- Hem hafif hem de dayanıklı öne eğik seyrek kanatlı fanlar yüksek statik basınç sağlamaktadır Lightweight and durable forward curved blades provide high static pressure
- İzlenebilir bakım şalteri mevcuttur Traceable maintenance power switch

TECHNICS

MODEL	BOX 450	BOX 500	BOX 560	BOX 630	BOX 710
VOLTAGE (V)	230/380	380	380	380	380
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	1,1	1,5	2,2	5,5	11
CURRENT (A)	7,5/2,6	3,5	4,9	11,5	21
AIR FLOW (m³/h)	7000	9750	14800	22500	30000

PERFORMANCES

MODEL	AIRFLOW (m³/h)									
	0 Pa	150 Pa	300 Pa	450 Pa	600 Pa	750 Pa	900 Pa	1050 Pa	1200 Pa	1350 Pa
BOX 450	7000	6400	5600	4450						
BOX 500	9750	9100	8250	7250	5500					
BOX 560	14800	14400	13500	12000	10400	7800	3200			
BOX 630	22500	21300	20650	19800	18600	16000	14900	11250		
BOX 710	30000	29250	28500	27750	26250	24750	23250	21000	18000	14250



DIMENSIONS

MODEL	A	B	C	D	E	F	G	H	J
BOX 450	348	548	802	698	698	947	698	780	749
BOX 500	348	648	887	798	798	1032	798	880	849
BOX 560	347	647	887	798	798	1032	798	879	851
BOX 630	423	847	1085	1000	1000	1229,6	1001	1082	1051,6
BOX 710	543	1047	1280	1195	1195	1245	1195	1277	1248,5

ODORLESS KITCHEN
CREATORS

EC BOX CABINET FANS

ENERGY EFFICIENT LONG LIFE

PRODUCT FEATURES

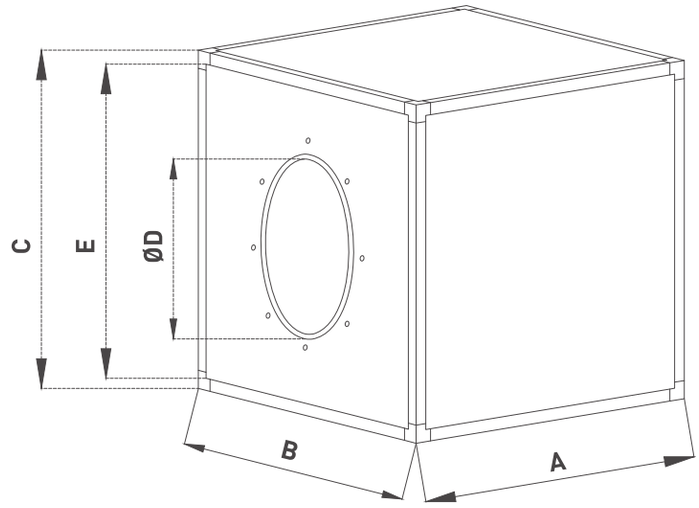
- EC yüksek verimli fan High efficient EC fan
- Kendinden hız kontrollü Self speed control
- Düşük ses seviyesi Low sound level
- Modüler sistem Modular system
- Her açıda montaj imkanı Possibility of mounting from any angle

TECHNICS

MODEL	EC BOX 20	EC BOX 30	EC BOX 50	EC BOX 70	EC BOX 100	EC BOX 120	EC BOX 150
VOLTAGE (V)	230	230	380	380	380	380	380
FREQUENCY (Hz)	50	50	50	50	50	50	50
POWER (kW)	0,5	0,5	1,92	1,32	2,6	2,36	2,7
CURRENT (A)	2,2	2,2	2,9	2,1	4	3,65	4,15
SPEED (rpm)	2360	1500	2870	1350	1700	1540	1300
AIR FLOW (m³/h)	3250	4750	7000	10500	12000	13800	17000
SOUND PL (dB) 3m	54	55	63	60	66	64	65

PERFORMANCES

MODEL	AIRFLOW (m³/h)			
	0 Pa	100 Pa	200 Pa	300 Pa
EC BOX 20	3250	3050	2900	2600
EC BOX 30	4750	4400	3990	3400
EC BOX 50	7000	6600	6200	6000
EC BOX 70	10500	9500	8800	7800
EC BOX 100	12000	11500	11000	10400
EC BOX 120	13800	13000	12400	11800
EC BOX 150	17000	16000	15500	14500



DIMENSIONS

MODEL	A	B	C	E	ØD
EC BOX 20	700	700	700	620	355
EC BOX 30	700	700	700	620	400
EC BOX 50	700	700	700	620	450
EC BOX 70	800	800	800	720	500
EC BOX 100	800	800	800	720	560
EC BOX 120	1000	1000	1000	920	630
EC BOX 150	1000	1000	1000	920	630

EC BOX KT CABINET FANS

ENERGY EFFICIENT LONG LIFE

PRODUCT FEATURES

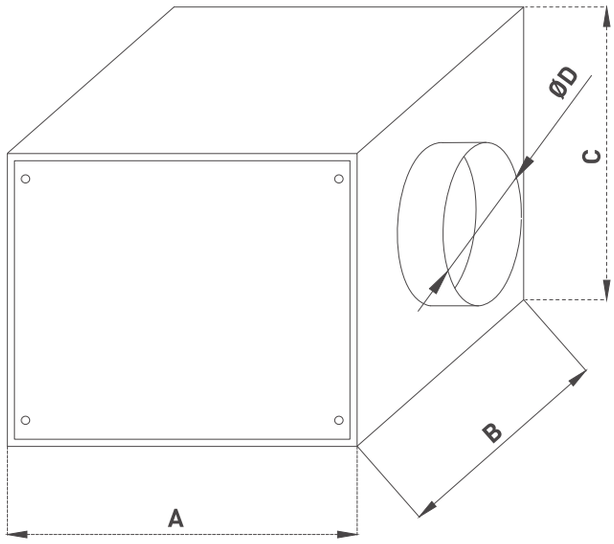
- Yüksek verimli EC fan High efficient EC fan
- Hız kontrolüne uygun Suitable for speed control
- Düşük ses seviyesi Low sound level
- Özel ses ve ısı izolasyonlu gövde Sound and thermal insulated case
- Her açıda montaj imkanı Possibility of mounting from any angle

TECHNICS

MODEL	EC BOX KT 05	EC BOX KT 08	EC BOX KT 11	EC BOX KT 15	EC BOX KT 21	EC BOX KT 31	EC BOX KT 41
VOLTAGE (V)	230	230	230	230	230	230	230
FREQUENCY (Hz)	50	50	50	50	50	50	50
POWER (kW)	0,085	0,17	0,17	0,168	0,46	0,5	0,5
CURRENT (A)	0,4	0,57	0,73	1	1,83	2,4	6
SPEED (rpm)	2600	2660	2670	2700	2720	1370	1250
AIR FLOW (m³/h)	1015	1300	1430	2335	3070	3680	5770
SOUND PL (dB) 3m	53	54	60	61	66	56	65

PERFORMANCES

MODEL	AIRFLOW (m³/h)			
	0 Pa	100 Pa	200 Pa	300 Pa
EC BOX KT 05	1015	880	730	470
EC BOX KT 08	1300	1210	1105	980
EC BOX KT 11	1430	1330	1215	1040
EC BOX KT 15	2335	2050	1630	1130
EC BOX KT 21	3070	2910	2730	2500
EC BOX KT 31	3680	3500	3260	3020
EC BOX KT 41	5770	5130	4460	3750



DIMENSIONS

MODEL	A	B	C	ØD
EC BOX KT 05	335	335	310	200
EC BOX KT 08	335	335	310	200
EC BOX KT 11	400	400	340	200
EC BOX KT 15	490	490	410	300
EC BOX KT 21	490	490	410	300
EC BOX KT 31	700	700	700	400
EC BOX KT 41	700	700	700	450

DOUBLE INLET CABINET FANS

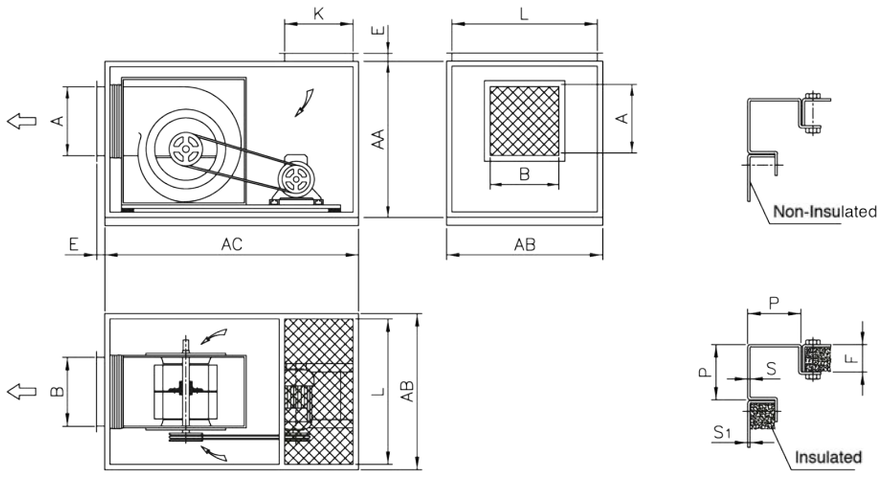
ENERGY EFFICIENT LONG LIFE

PRODUCT FEATURES

- Akustik-Termal izolasyonlu Acoustic-Thermal insulated
- Kayış kaynaklı tahrikli Belt driven
- Bakımı kolay Easy maintance
- Çift emişli hücreli fanlar, kanat yapıları geriye ve öne eğik aynı zamanda ihtiyaca göre sık ve seyrek kanatlı kanat yapılarına haizdir. Hücreli çift emişli fanlar genellikle ticari ve endüstriyel ortamlarda kirli hava emiş veya taze havayı ortama basınç amaçlı olarak kullanılmaktadır Double suctioned cabined fans can be manufactured as backwarded or forwarded impeller. Double inlet cabinet fans are usually used for commercial and industrial areas for extraction or fresh air supply in ambience
- Çift emişli hücreli fanlar kullanım amaçları ve de yerlerine göre açısal olarak farklı tasarımlara sahiptir Double inlet cabinet fans have different anguler design for purpose and place usage
- Cihazların motor rulman yatakları bakım gerektirmeyen uzun ömürlü olmakla beraber fan milinin tüm ölçüsel toleransları hassas montaj sağlayacak şekilde tamamen kontrol edilmiştir Motor bearing is maintanence-free and loong lived. In addition to that, all the dimensional tolerances of the fan shafts are fully controlled to provide precise mounting

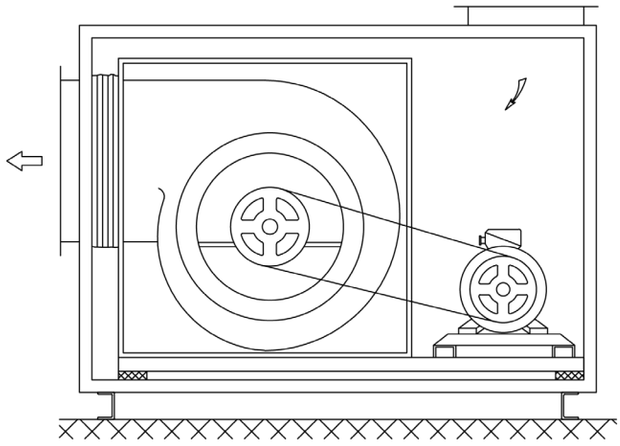
TECHNICS

MODEL	Min.kW	Max.kW	Min. m³/h	Max. m³/h	Min. d/d	Max. d/d
CVS-BOX-180	0,1	1,1	140	3500	850	1910
CVS-BOX-200	0,126	2	180	5000	765	1910
CVS-BOX-225	0,16	4	200	7000	680	1900
CVS-BOX-250	0,2	5	200	9000	610	1710
CVS-BOX-280	0,25	6,3	200	12000	545	1530
CVS-BOX-315	0,32	8	400	15000	485	1360
CVS-BOX-355	0,4	10	500	19000	430	1205

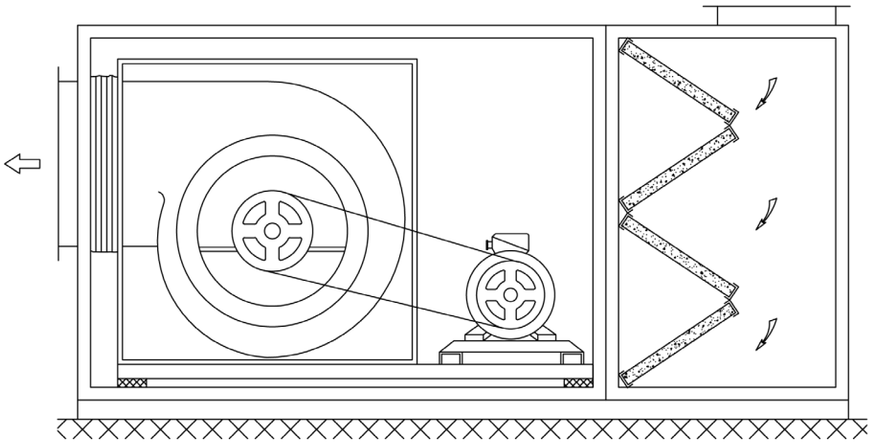


DIMENSIONS

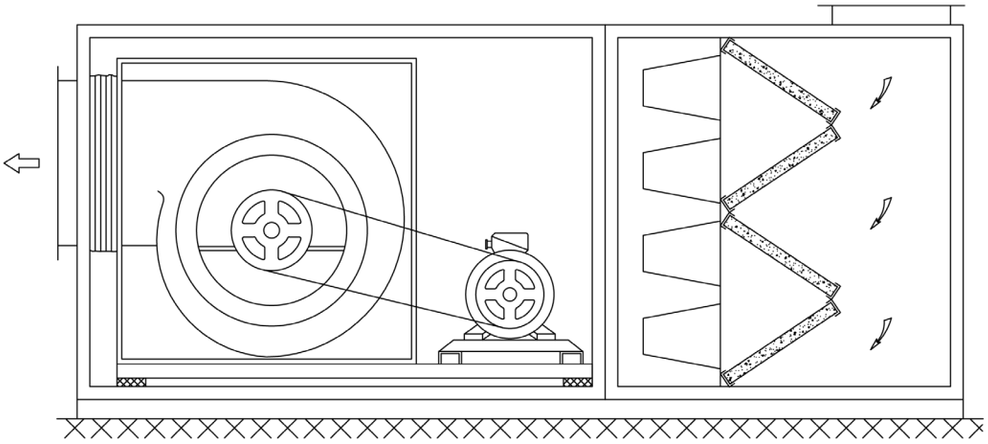
Product Code	Common			A	B	K	L	P	S	E	F	S1
	AA	AB	AC									
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
CVS-BOX-180	560	560	710	224	224	224	480	40	1.5	60	20	1
CVS-BOX-200	630	630	800	250	250	250	530	50	2	60	20	1
CVS-BOX-225	70	710	900	280	280	280	610	50	2	60	20	1
CVS-BOX-250	800	800	1000	315	315	315	700	50	2	60	20	1
CVS-BOX-280	800	800	1120	355	355	355	700	50	2	60	20	1
CVS-BOX-315	900	900	1250	400	400	400	780	60	2	80	30	1.2
CVS-BOX-355	1000	1000	1250	450	450	450	880	60	2	80	30	1.2



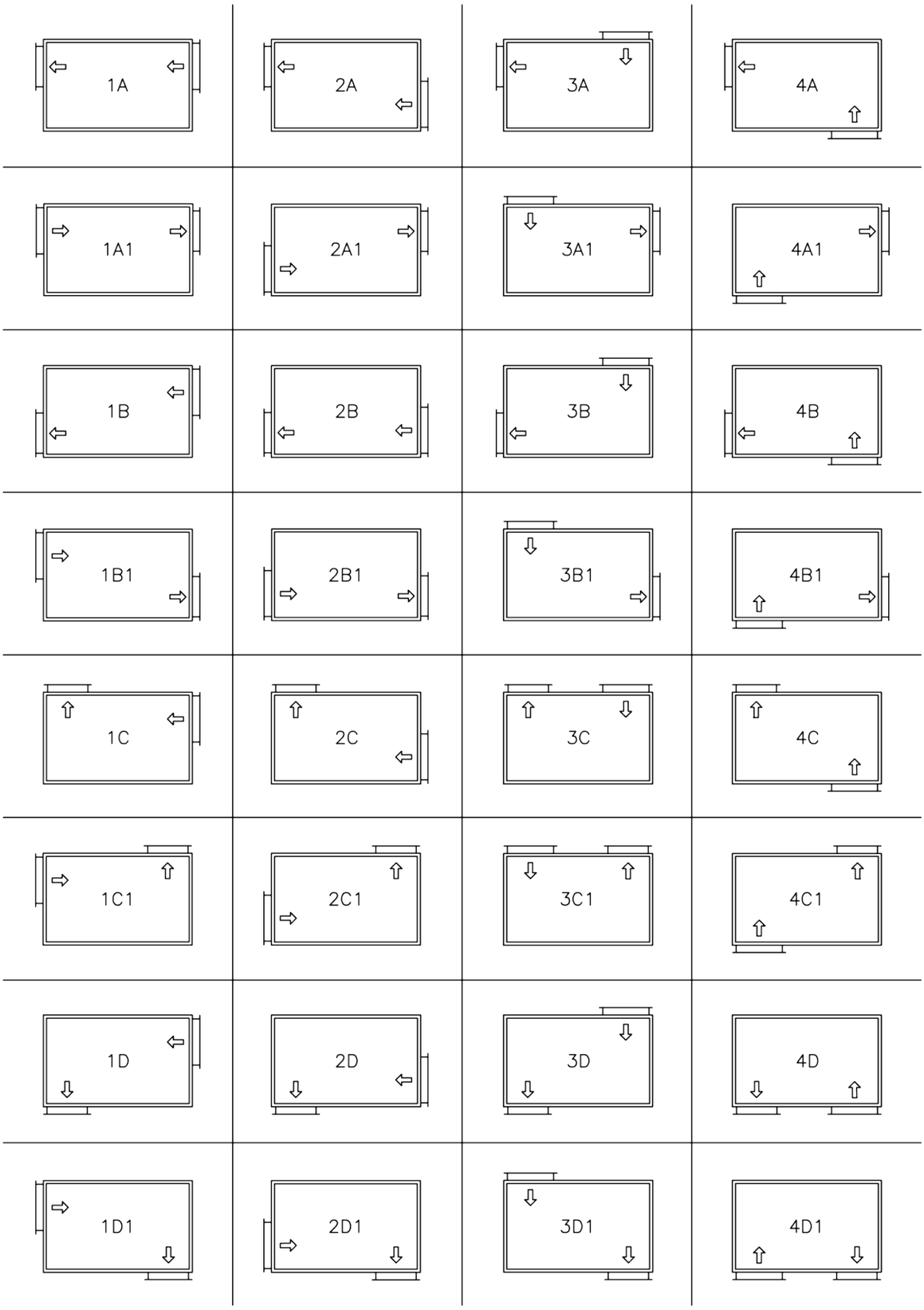
CVS-BOX-01 SERIES AIR CONDITIONING PLANTS



CVS-BOX-02 SERIES AIR CONDITIONING PLANTS



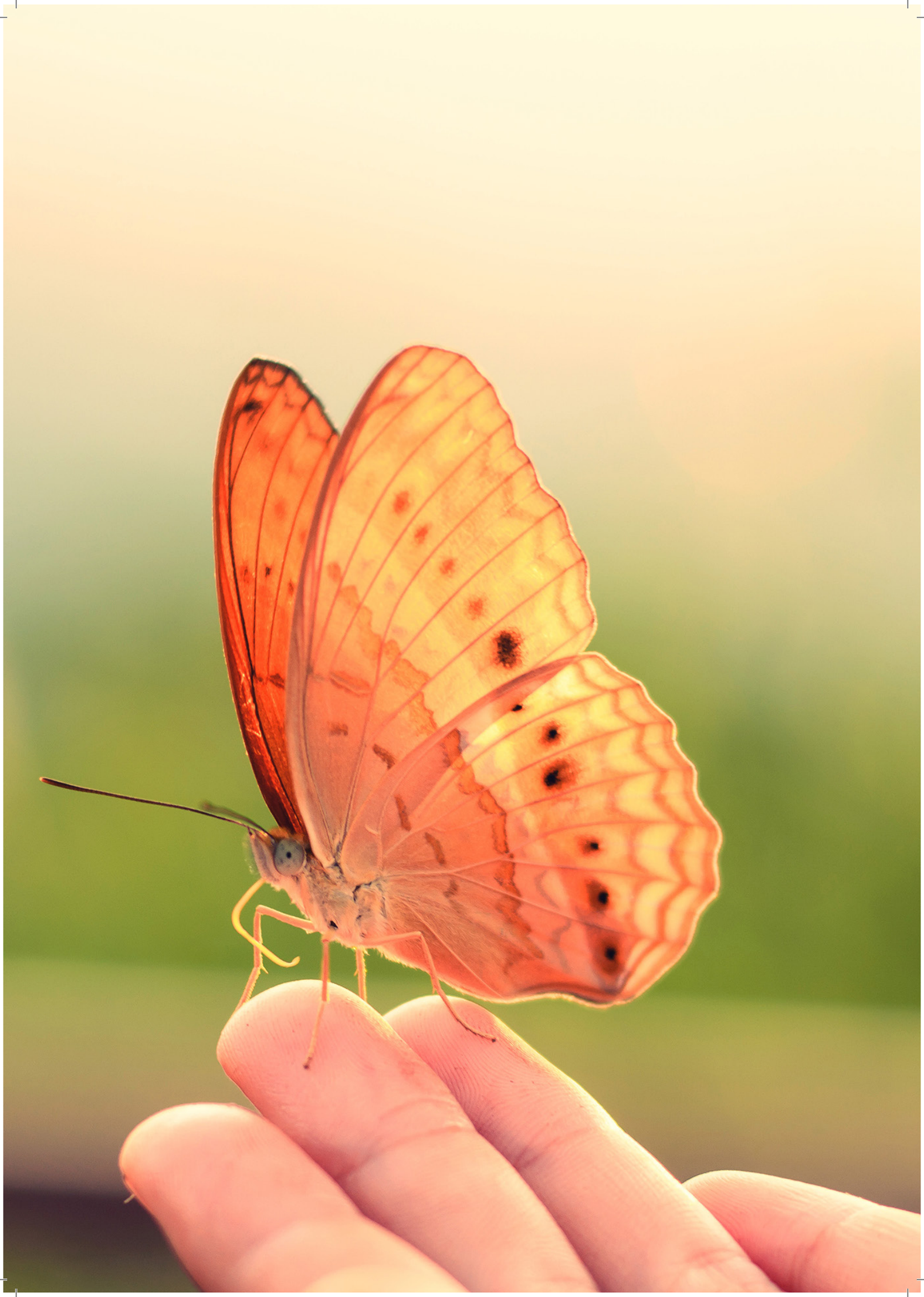
CVS-BOX-3 SERIES AIR CONDITIONING PLANTS


1A
2A
3A
4A
1A1
2A1
3A1
4A1
1B
2B
3B
4B
1B1
2B1
3B1
4B1
1C
2C
3C
4C
1C1
2C1
3C1
4C1
1D
2D
3D
4D
1D1
2D1
3D1
4D1

www.cvsair.com.tr

cvsair®

WE ARE IN SERVICE WHENEVER YOU NEED FRESH AIR



www.cvsair.com.tr

Units


EXHIBIT
"WHOEVER SAID
MONEY CAN'T BUY
HAPPINESS"
SOMEONE DOESN'T
KNOW WHERE TO GO
SHOPPING

HEAT RECOVERY UNIT

ENERGY
EFFICIENT
LONG LIFE

PRODUCT FEATURES

- Isı geri kazanım cihazları; ısı enerjisini eşanjörler ve fanlar yardımıyla geri kazanarak enerji tasarrufu sağlarken aynı zamanda yüksek iç hava kalitesi elde edilmesini sağlar Heat recovery ventilation saves energy. That regains heat energy by heat exchanger and fans and at the same time it provides high indoor air quality
- Ticari, endüstriyel, evsel havalandırmada geniş kullanım alanına sahiptirler Commercial, industrial, residental areas are widely used in air conditioning applications
- Büro, hastane, kafeterya, okul, restaurant, plaza, market gibi uygulama alanları mevcuttur Offices, hospitals, cafeterias, schools, restaurants, plazas, markets etc. can be used for application area

OPTIONAL ACCESSORIES AND EQUIPMENT

- Elektrikli ısıtıcı Electric heater
- Sulu ısıtıcı batarya Watery heater battery
- Hava kalite sensörü Air quality sensor
- Kanal tipi susturucu Duct type silencer

TECHNICS

	IGK-1000	IGK-2000	IGK-3000	IGK-4000	IGK-5000
AIR FLOW (m³/h)	1000	2000	3000	4000	5000
POWER (W)	150*2	420*2	550*2	750*2	750*4
PRESSURE LOSS (Pa)	120	180	250	200	200
ELECTRIC HEATHER (kW)	3	6	9	12	15
WATERY HEATHER (KW)	3	7	9	10	12
FAN STEP COUNT	3	3	3	3	3
WIDTH (mm)	760	1060	1260	1260	1560
HEIGHT (mm)	400	460	560	560	560
LENGHT (mm)	960	1.060	1.260	1.360	2.060
VOLTAGE (V)-(Hz)	230-50	230-50	230-50	230-50	230-50
ELECTRIC HEATHER VOLTAGE (V)-(Hz)	23-50	230-50	380-50	380-50	380-50
BYPASS DAMPER	OPTIANOL				

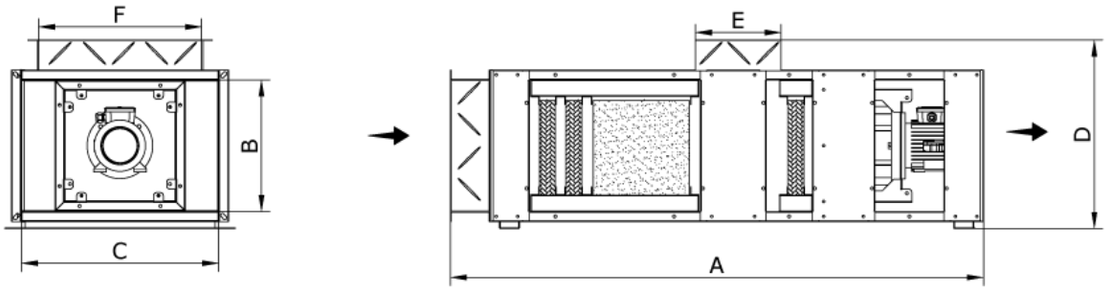
SHELTER FANS
ENERGY EFFICIENT LONG LIFE

PRODUCT FEATURES

- Galvaniz çelik sacdan mamul dış kasa Galvanized sheet steel case
- By-pass damperli By-pass damper
- En yüksek verim için ayarlanabilir kanat açısı Adjustable blade angles for maximum efficiency
- Geriye eğik kanatlı radyal fan Maintenance cover
- Geriye eğik kanatlı radyal fan Backward curved radial fan
- G4 filtre, radyoaktif filtre, karbon filtre, kurşun
- separatötlü G4 filter, radioactive filter, carbon filter, lead separator

TECHNICS

MODEL	m^3/h	Pa	kW	V	Hz
SKS-30	1300	200	0,75	380	50
SKS-60	3600	200	1,5	380	50
SKS-90	5000	500	3	380	50
SKS-120	7200	500	4	380	50



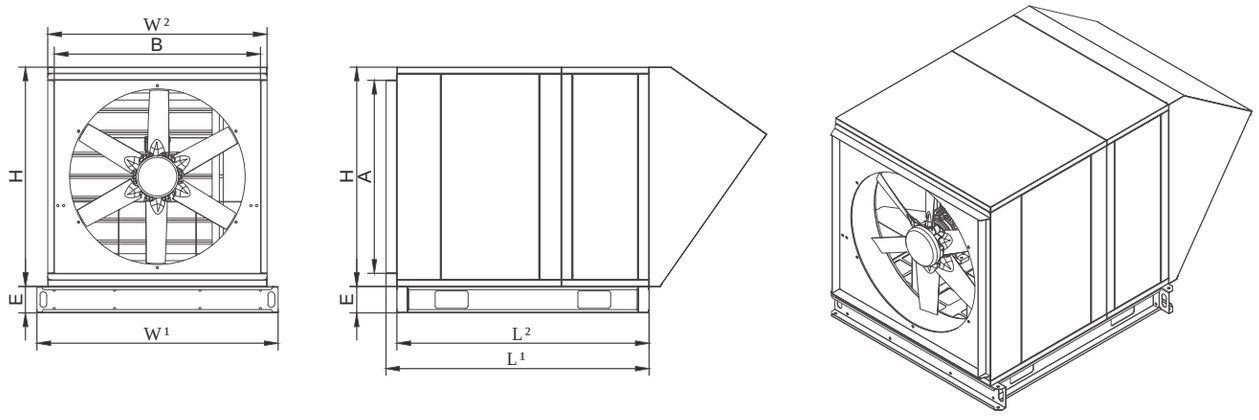
DIMENSIONS

MODEL	A	B	C	D	E	F
SKS-30	1620	400	600	565	205	500
SKS-60	1720	600	600	765	205	500
SKS-90	1850	600	900	765	205	800
SKS-120	1950	600	1200	765	205	1100

COMPACT PRESSURIZATION FANS ENERGY EFFICIENT LONG LIFE

PRODUCT FEATURES

- Akustik termal izolasyonlu hücre Acoustic thermal box
- On-off bakım şalterli On-off maintanance switch
- Frekans invertörlü Frequency invertor
- Fark basınç ve duman sensörü Pressure difference and smoke sensor
- Yağmur koruma sacı Rain protection hood
- Tel kafes Wire guard
- Motorlu damper Motorized damper
- Polyamid pervane Polyamide blade
- Yangın yönetmeliğine tam uyumlu In accordance with fire regulation



TECHNICS

MODEL	CVS-MBF-Ø800-5,5/4P	CVS-MBF-Ø800-7,5/4P
VOLTAGE (V)	400	400
FREQUENCY (Hz)	50	50
POWER (kW)	5,5	7,5
CURRENT (A)	11,8	15,8
SPEED (rpm)	1430	1430
AIR FLOW (m³/h)	32560	38420

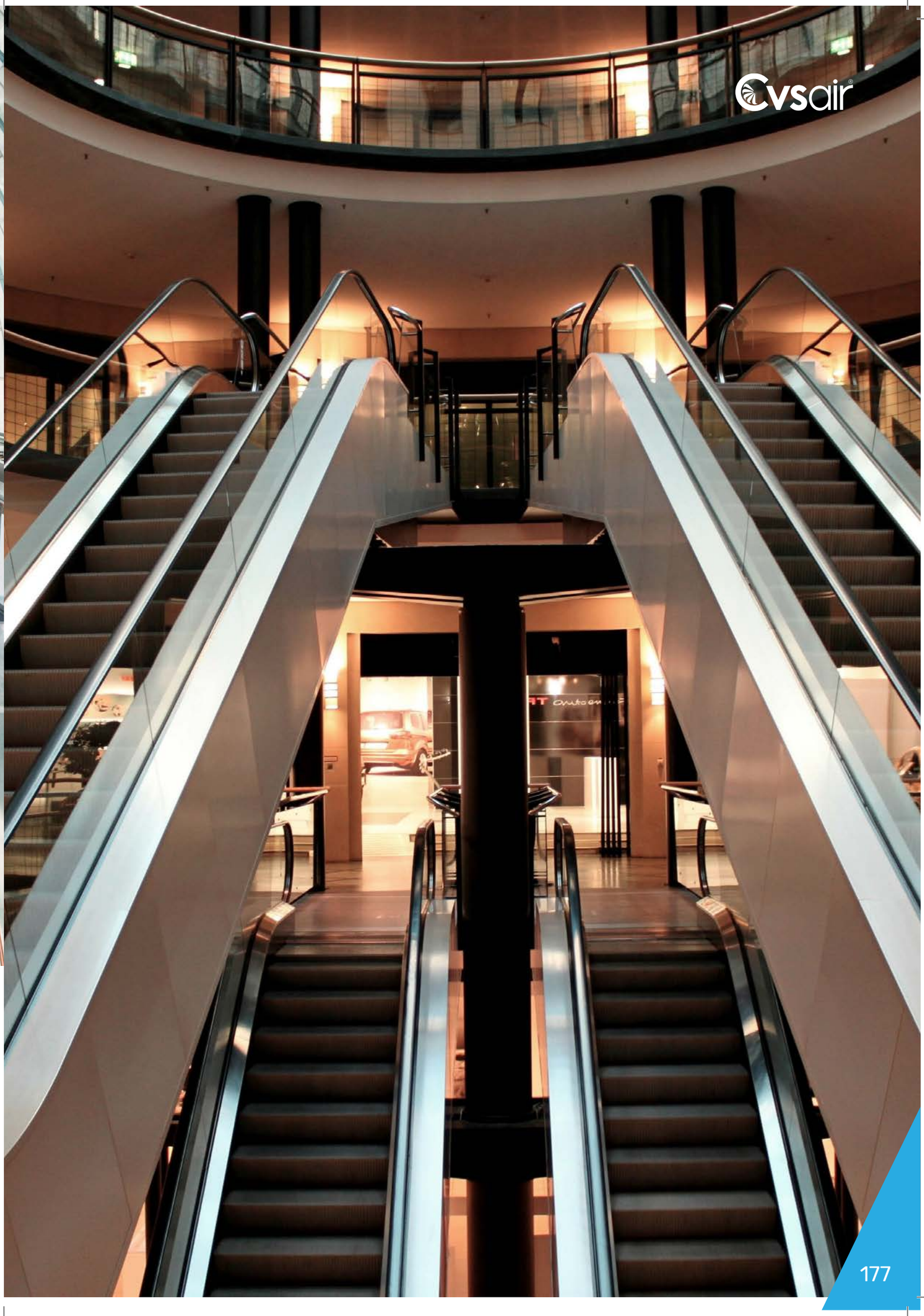
DIMENSIONS

MODEL	L¹	L²	W¹	W²	H	A	B	E
CVS-MBF-Ø800	1200	1150	1100	1000	1000	880	940	120

COMPACT
PRESSURIZATION FANS

PERFORMANCES

MODEL	AIR FLOW (m³/h)								
	0 Pa	100 Pa	200 Pa	300 Pa	400 Pa	500 Pa	600 Pa	700 Pa	800 Pa
CVS-MBF-Ø800-5,5/4P	32560	30000	27000	24000	18600				
CVS-MBF-Ø800-7,5/4P	38420	35500	32500	28500	21500				



75.000

pcs*

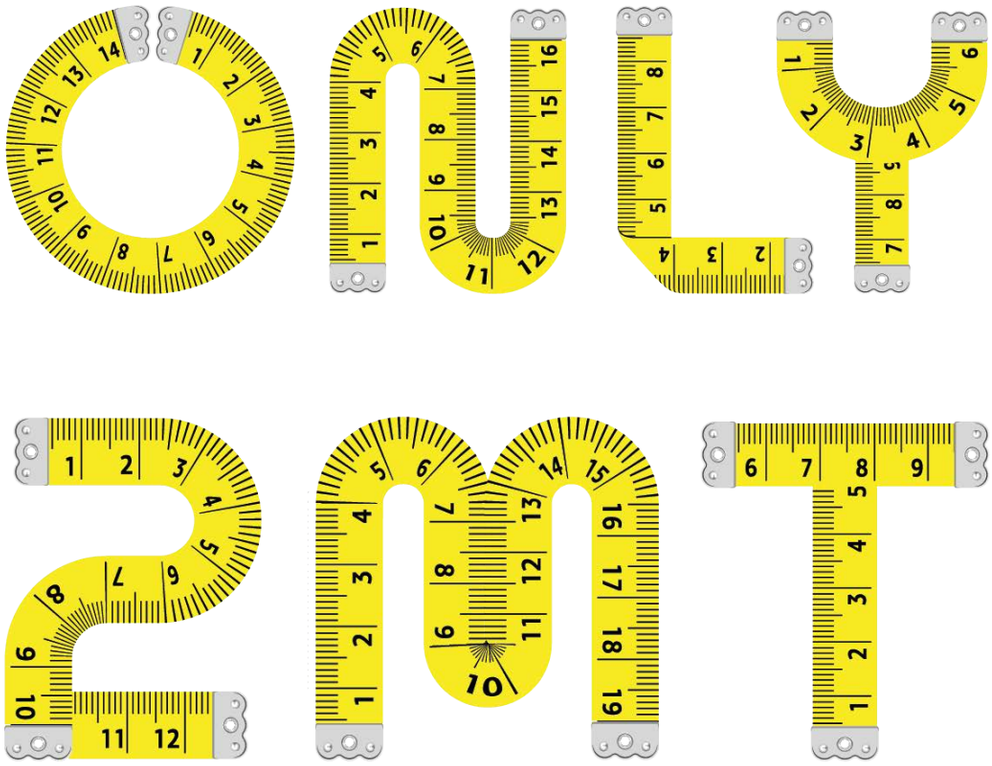
* Product quantities
produced until today
10th anniversary of Cvsair

10

Cvsair®

Air Curtains

CVSAIR AIR CURTAINS PLACE OF USAGE



Cvsair air creates a healty environment in accordance with your needs and reduced energy consumption while preventing. Dust, poisonous gases, cigarette, smoke and pest together with cold & hot air entrance

- Shopping Centers
- Shops
- Super Markets
- Otels
- Hospitals
- Restaurants and Cafes
- Airports
- Cold Storage
- Sport Centers
- Stadiums

CVSAIR
VITA WITH HEATHER COMMERCIAL TYPE AIR CURTAIN

PERFORMANCES

CVSAIR VITA WITH HEATER COMMERCIAL TYPE AIR CURTAIN TECHNICAL DETAIL (VT200)					
POWER SUPPLY	V/P/Hz	300-400/3/50	TIN-OUT	°C	20-48
MOTOR POWER	W	450	FAN RADIUS	mm	120
MOTOR SPEED	rpm	1000/1200/1400	DIMENSIONS	mm	190/2115/270
HEATING CAPACITY	kW	7/14/21	EXIT WIDTH	mm	49
AIR SPEED	m/sn	8/11/13	WEIGHT	kg	41
AIR FLOW	m^3/h	3620/4150/4710	MAX. DOOR HEIGHT	mm	3500
NOISE LEVEL(1m)	dB-(A)	56/60/62			
3 LEVEL HEATER AND 3 SPEED MOTOR					

CVSAIR
VITA COMMERCIAL TYPE AIR CURTAIN

PERFORMANCES

CVSAIR VITA COMMERCIAL TYPE AIR CURTAIN (VT200)					
POWER SUPPLY	V/P/Hz	220-240/1/50	FAN RADIUS	mm	120
MOTOR POWER	W	450	DIMENSIONS	mm	190/2115/270
MOTOR SPEED	rpm	1000/1200/1400	EXIT WIDTH	mm	49
AIR SPEED	m/sn	8/11/13	WEIGHT	kg	35
AIR FLOW	m^3/h	3740/4260/5035	MAX. DOOR HEIGHT	mm	3800
NOISE LEVEL(1m)	dB-(A)	56/60/62			

3 SPEED MOTOR

CVSAIR
AQUA WITH WATER
TYPE AIR CURTAIN

PERFORMANCES

CVSAIR AQUA WITH WATER COIL AIR CURTAIN TECHNICAL DETAIL (A200)					
FAN RADIUS	mm	120	MOTOR SPEED	rpm	1000/1200/1400
TIN WATER	°C	90	T OUT WATER	°C	76,0/77,5
IN AIR	°C	15	T OUT AIR	°C	43,8/46,5
THERMAL POWER	kW	35,2(high)-31,5(low)	WATER FLOW	lt	1,5
PRESSURE DROP (Weter)	Pa	3450	POWER SUPPLY	V Hz	230/1/50
WATER FLOW	lt/sn	0,5	DIMENSIONS	mm	190/2115/270
OUT SPEED	m/sn	7,5/10,0/12,2	WEIGHT	kg	39
NOISE LEVEL(1m)	dB-(A)	60/62/65	WEIGHT WITH WATER	kg	41
AIR FLOW	m^3/h	3620/4150/4710	MAX. DOOR HEIGHT	mm	3500
MOTOR POWER	W	450			

3 SPEED MOTOR

www.cvsair.com.tr

CVSAIR
LENA INDUSTRIAL TYPE AIR CURTAIN

PERFORMANCES

CVSAIR LENA INDUSTRIAL TYPE AIR CURTAIN (LN200)					
POWER SUPPLY	V/P/Hz	220-240/1/50	FAN RADIUS	mm	150
MOTOR POWER	W	500	DIMENSIONS	mm	290/2100/290
MOTOR SPEED	rpm	1160/1240/1350	EXIT WIDTH	mm	49
OUT SPEED	m/sn	10,3/14,0/16,7	WEIGHT	kg	35,5
AIR FLOW	m^3/h	4820/5230/5520	MAX. DOOR HEIGHT	mm	5000
NOISE LEVEL(0m)	dB-(A)	70/72/75			

3 SPEED MOTOR
*With aluminium fan

PERFORMANCES

CVSAIR ELEGANT WITH HEATER SPECIAL TYPE AIR CURTAIN TECHNICAL DETAIL (EL200)					
POWER SUPPLY	V/P/Hz	380-400/3/50	IN-OUT	°C	20-48
MOTOR POWER	W	450	FAN RADIUS	mm	120
MOTOR SPEED	rpm	1000/1100/1200	DIMENSIONS	mm	190/2130/270
HEATING CAPACITY	kW	7/14/21	EXIT WIDTH	mm	49
OUT SPEED	m/sn	8/11/13	WEIGHT	kg	41
AIR FLOW	m^3/h	3620/4150/4710	MAX. DOOR HEIGHT	mm	3500
NOISE LEVEL(1m)	dB-(A)	56/60/62			
3 LEVEL HEATER AND 3 SPEED MOTOR					

PERFORMANCES

CVSAIR ELEGANT SPECIAL TYPE AIR CURTAIN (EL200)					
POWER SUPPLY	V/P/Hz	220-240/1/50	FAN RADIUS	mm	120
MOTOR POWER	W	450	DIMENSIONS	mm	190/2130/270
MOTOR SPEED	rpm	1000/1100/1200	EXIT WIDTH	mm	49
OUT SPEED	m/sn	8/11/13	HEATING	kg	35
AIR FLOW	m^3/h	3740/4260/5035	MAX. DOOR HEIGHT	mm	3800
NOISE LEVEL(1m)	dB-(A)	56/60/62			

3 SPEED MOTOR


around the world


Cvsair®

Unit Heathers

UNIT HEATHERS

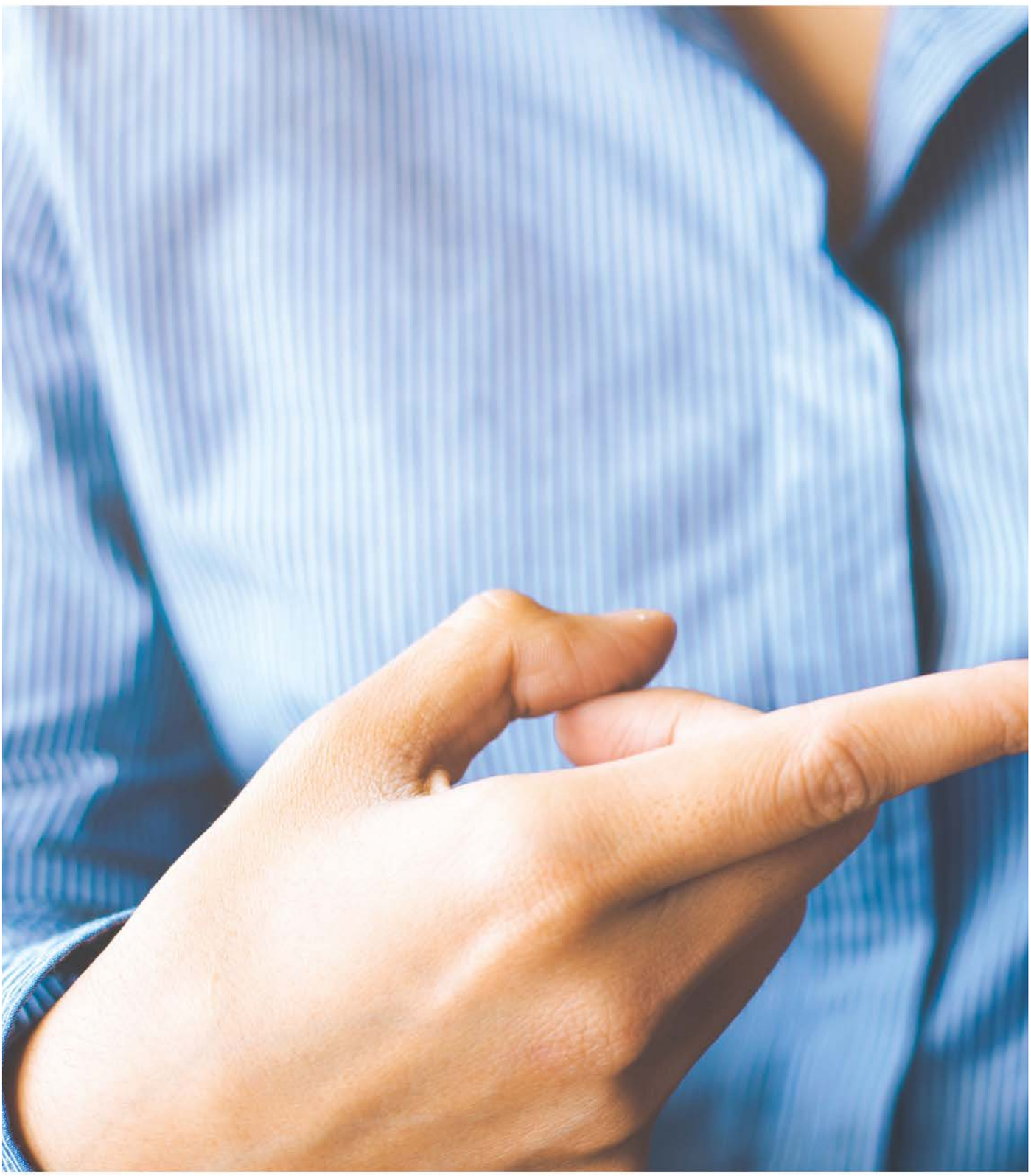
ENERGY EFFICIENT LONG LIFE

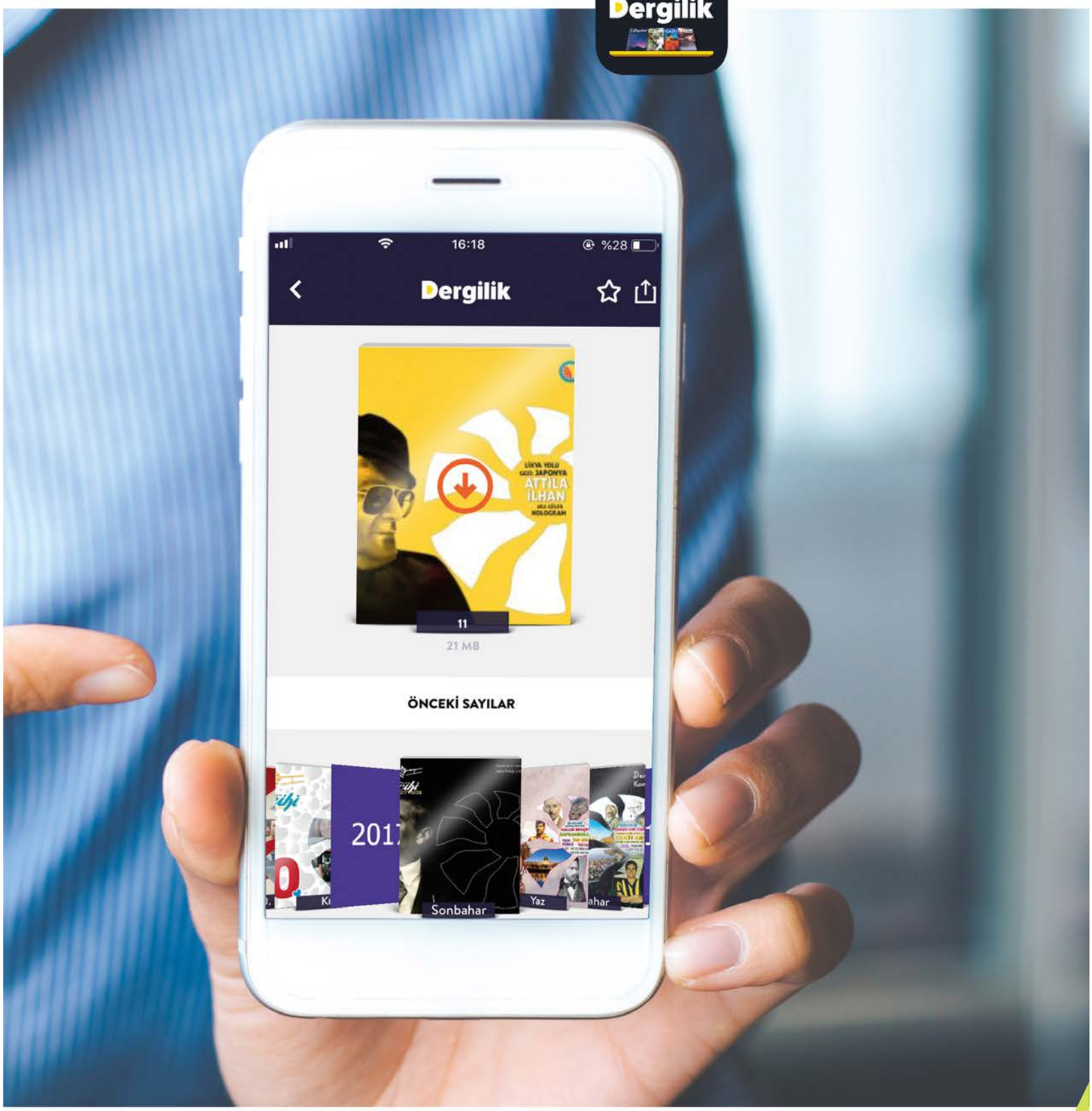
PRODUCT FEATURES

- Yüksek verim ile ortamı hızlı bir şekilde ısıtırlar Quickly warm the environment with high efficiency
- Tekerlekli yapıları ile seyyar olabilecekleri gibi montaj aparatı kullanılarak duvara montaj yapılabilir It can be mobile with wheeled structures and can be mounted on the wall by using mounting bracket
- Termostat sayesinde kademe ve sıcaklık kontrolü yapabilir Thermostat and temperature control
- Emniyet termostatı ile aşırı ısınma önlenir Overheating is prevented with safety thermostat
- Çift cidarlı yapı ısının cihaz yüzeyine çıkması önlenir Double-walled structure prevents heat from entering the device surface
- Farklı yakıt sistemine sahip cihazlar gibi oksijene ihtiyaç duymaz ve egzoz gazı oluşturmaz It does not need oxygen and does not create exhaust gas like devices with different fuel system

PERFORMANCES

	SHA 3	SHA 5	SHA 8	SHA 12-15
VOLTAGE (V)	220	380	380	380
POWER (kW)	3	5	8	12-15
STAGE	0-1,5-3	0-2,5-5	0-4,8	0-6,12 0-7,5-15
CURRENT	16	10	16	24-30
AIR FLOW (m^3/h)	350	630	1000	1800
PROTECTION	IP44	IP44	IP44	IP44
COLOR	RAL7035	RAL7035	RAL7035	RAL7035
WIDTH (mm)	290	350	350	400
HEIGHT (mm)	380	450	450	530
DEPTH	260	450	450	450




Dergilik
16:18
%28
Dergilik
11
21 MB
ÖNCEKİ SAYILAR
Sonbahar
Yaz

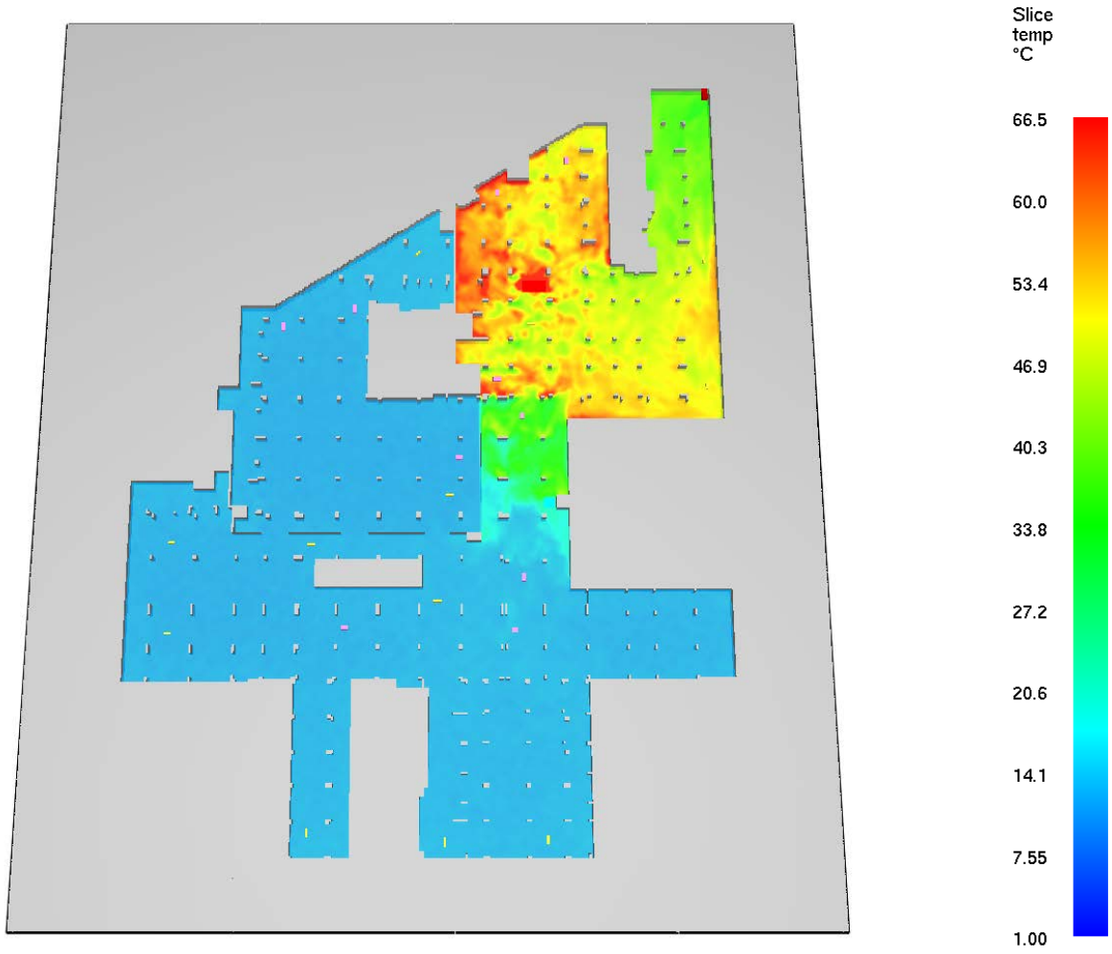
Cfd Analysis

CAR PARK SMOKE EVACUATION SYSTEMS

PRODUCT FEATURES

- CVS Havalandırma Sistemleri A.Ş Ar-Ge birimi olaeak, gelen projeler doğrultusunda, fan yerleşimleri ve akabinde CFD analizleri olarak adlandırılan, eksenel taze hava fanı, radyal ve eksenel jet fanların otopark sınırları dahilinde simüle edilen yangın dumanını tahliye süresinin hesaplama çalışmaları yapmaktadır As CFD Air R&D department, we make cfd (computational fluid dynamics) calculations to determine smoke removal time, considering fresh air and smoke exhaust axial fans, radial and axial jet fans in accordance with pending projects

- Otopark hacminin çok küçük hacimlere bölünerek elde edilen noktalardan alınan duman dağılımı, hız, sıcaklık, vizkosize, basınç gibi veriler görsel olarak belirtilmekte ve yapılan simülasyon çalışmasıyla istenen sürede yangın dumanının tahliye olup olmadığı, jet fan yerleşiminin yeterliliği, taze hava ve egzoz fanlarının yeterli olup olmadığı görülebilmektedir Whether fire smoke evacuated or not, sufficiency of jet fan placement and efficiency af fresh air and smoke exhaust fans is determined as smoke gradient, velocity, temperature, viscosity and pressure contours, by using divided into small volumes of carpark

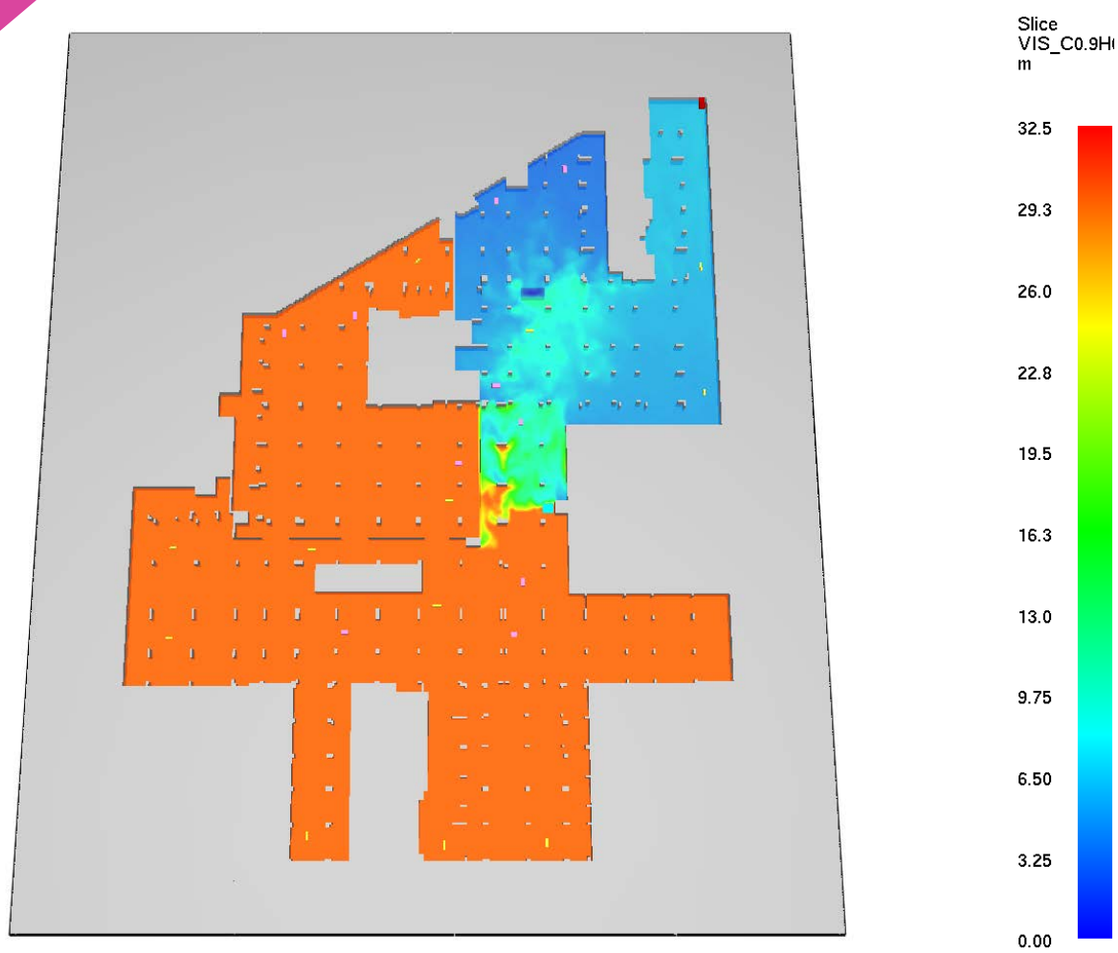


Sıcaklık Dağılımının Gösterilmesi Demonstration of Temperature Distribution

PRODUCT FEATURES

- Hesaplamalı akışkanlar dinamiği (CFD) yazılımı ile incelenen otoparkın sıcaklık dağılımı anlık olarak hesaplanabilmekte, şekilde de görüldüğü gibi görselleştirilmektedir Investigating as instantaneous carpark temperature gradient by using computational fluid dynamics (CFD) software,is visualized as shown in figure
- ASHRAE-SFPE gibi yönetmeliklerde belirtilen hususlar ile ilgili belirtilen bölgelerdeki sıcaklıkların uygunlukları incelenebilmektedir Important zones which is described in ASHRAE-SFPE instructioons are able to investigated
- Böylece insan sağlığında kalıcı hasarlar olmaması için gerekli tedbirler kestirilebilmektedir In this way, required precautions can be determined not to be permanent damage for human health
- Hesaplı akışkanlar dinamiği (HAD) yöntemi ile anlık ve noktasal sıcaklığın hesaplanması, yüksek sıcaklığa bağlı doğabilecek diğer sorunları için de önlem alınması için elzemdir Investigated instantaneous and point temperature gradient by using cfd software, is essential to make precautions for any trouble due to the high temperature

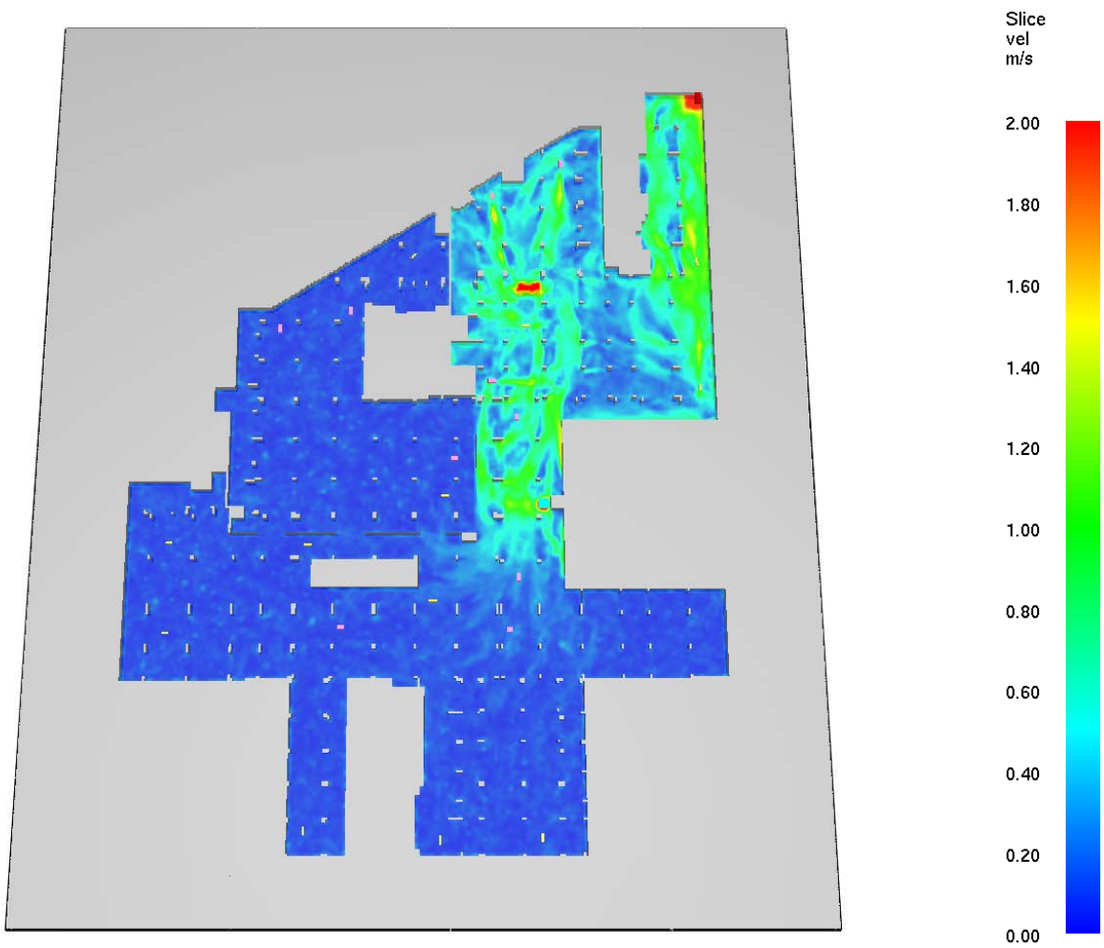
CAR PARK SMOKE EVACUATION SYSTEMS



Optik Yoğunluk Dağılımının Gösterilmesi Demonstration of Optical Density Distribution

PRODUCT FEATURES

- Hesaplamalı akışkanlar dinamiği (CFD) yazılımı ile incelenen otoparkın görüş mesafesi dağılımı ile yangın anında anlık ve noktasal olarak görüş mesafesi hesaplanmakta, yangın söndürme personelinin yangına müdahalesi ve içerideki mevcut insanların yangın esnasında tahliyesi için belirleyici olmaktadır Investigating as instantaneous and point carpark visibility gradient by using computational fluid dynamics (CFD) software, is decisive for the intervention of the fire extinguishing staff and evacuation the people in the carpark, during the fire
- Eksenel jet fan, radyal jet fan, taze hava ve egzoz duman fanlarının yangın anındaki uygunluğu ve standartlarda belirtilen koşulları karşılayabilme durumu, hesaplamalı akışkanlar dinamiği (HAD) yöntemi ile belirlenen konturlara göre yorumlanmaktadır Capability of axial an radial jet fans, fresh air and smoke exhaust fans, quallify standart conditions are interpreted according to the computational fluid dynamics contours

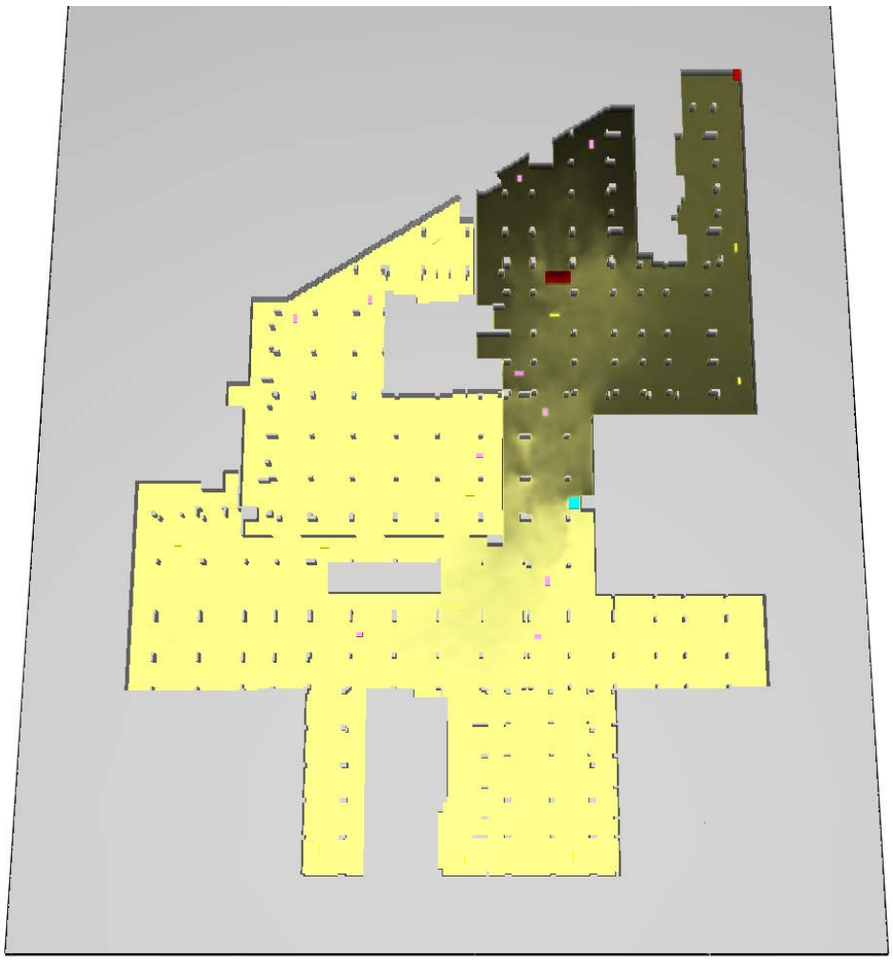


Hız Dağılımının Gösterilmesi Demonstration of Velocity Distribution

PRODUCT FEATURES

- Hesaplamalı akışkanlar dinamiği (CFD) yazılımı ile incelenen otoparkta kullanılan jet fanlar ve eksenel fanların basınçlandırdığı hava hızları ve bu hız değerlerinin standartlara uygunluğu anlık ve noktasal incelenmektedir Pressurized velocity gradient by axial and jet fans and convenience of these to the standarts in the car park is investigated as instantaneous and point by using computational fluid dynamics (cfd) methods
- Böylece standartın üzerindeki hız değerleri belirlenmiş olup gerekli revizyon çalışmaları yapılmakta, yaygın anında mahsur kalan insanların tahliye esnasında etkilenmeleri önlenmektedir In this way, speed value above the upper limit is determined and so required revisions has been made, any affects during the evacuations are prevented

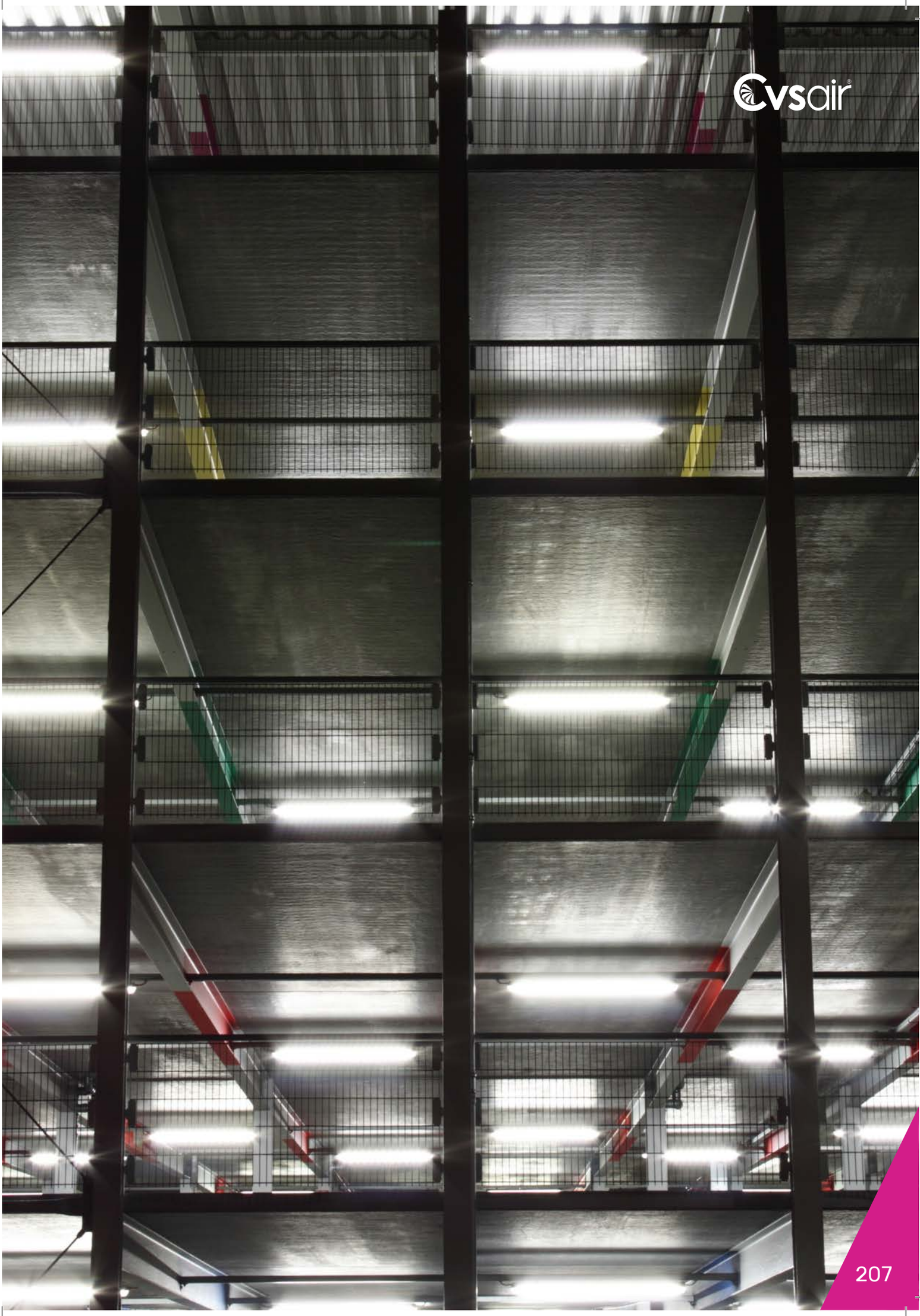
CAR PARK SMOKE EVACUATION SYSTEMS



Duman Dağılımının Gösterilmesi Demonstrations of Smoke Distribution

PRODUCT FEATURES

- Hesaplamalı akışkanlar dinamiği (CFD) yazılımı ile incelenen otoparktaki yangından kaynaklanan duman dağılımı ile standartlara göre belirlenen duman tahliye süresinin yeterlilik durumu, eksenel ve radyal jet fanların pozisyonları, taze hava ve egzoz fanlarının kapasite yeterlilik durumları belirlenmektedir Fire smoke gradient, described sufficiency of smoke evacuation time in the standarts, positions of axial and radial jet fans and sufficient of fresh air and smoke exhaust fans capacities are determined in the simulations
- Bu yöntem ile gereğinden fazla jet fan kullanımı ve yine gereğinden fazla kapasitede taze hava ile egzoz fanların kullanımı önlenmektedir Extra jet fans and capacities of fan usage is prevented by using computational fluid dynamics method
Bu yöntem ile yapılan çalışmalar sonucu yeterli sayıda jet fan ve yeterli kapasitede taze hava ile egzoz fanı kullanıldığı için projeler ekonomik olarak daha uygun hale gelmektedir Conclusion of these studies as used enough fan and sufficient capacity projects are getting economically cheaper



Test Reports

TWIN CITY FAN COMPANIES LTD.

ENGINEERING LAB REPORT
CONFIDENTIAL

PROJECT: 2018-PROP-01

DESCRIPTION: Cvsair Performance Testing of 400mm Jet Fan and 800mm Tubeaxial Fan

AIR MOVEMENT AND CONTROL ASSOSIATION MEMBER

OBJECTIVE:

Testing was performed on two fans manufactured by Cvsair to determine the accuracy of the performance ratings. One fan was a tubeaxial fan rated for high temperature. The second fan was a jet fan used in car parks. This project was one aspect of a possible partnership between Cvsair and Twin City Fan Companies, Ltd (TCF).

TEST RESULTS:

Table 1 – Performance Summary
(all data shown at 1455 RPM and 1.201kg/m^3 / 0.075 lb_m/ft^3 density)

Fan Type and Size	Description	Flowrate		Static Pressure		Shaft Power **		Thrust ***		Thrust per kW
		m^3/hr	ft^3/min	Pa	iwc	kW	BHP	N	lb_f	
Tubeaxial 800mm (CVS-0800-4/4P F300)	Catalog Data	25,269	14,871	255	1.02	3.67	4.92	-	-	-
	Test Data	25,024	14,727	250	1.00	3.91	5.24	-	-	-
Jet Fan 400mm Prototype	Catalog Data	-	-	-	-	-	-	-	-	-
	Test Data (FWD)*	9,260	5,450	1.00	0.00	1.90	2.55	62.08	13.95	32.67
	Test Data (REV)*	9,333	5,492	1.00	0.00	1.94	2.60	64.24	14.44	33.11

*Test data for jet fan shown at wide-open volume (primary duty point)
**Shaft power of test data estimated based on nameplate motor efficiency.
***Thrust is calculated based on wide-open volume flowrate and fan diameter. Thrust per kW in units of Newtons/shaft kW. Calculations were made at standard density (1.201 kg/m^3 / 0.075 lb_m/ft^3)

Table 2 –Acoustic Summary

Fan Type and Size	Description	LwA	LpA @ 1 meter	LpA @ 3 meters	LpA @ 5 meters
Tubeaxial 800mm (CVS-0800-4/4P F300)	Catalog Data (Total)****	92.0	-	71.0	-
	Test Data (Outlet)	96.1	85.2	75.6	71.2
Jet Fan 400mm Prototype	Catalog Data (Total)	-	-	-	-
	Test Data (Outlet, FWD)	87.1	76.3	66.7	62.3
	Test Data (Outlet, REV)	95.5	84.7	75.1	70.7
	Test Data (Total, FWD)	91.8	81.0	71.4	67.0
	Test Data (Total, REV)	95.4	84.6	75.0	70.6

****Catalog data provided was listed as total sound. To estimate a comparison with outlet sound as tested, subtract 3 dB from catalog data.

TEST RESULTS (continued):

Table 3A – Seismic Test Unit Description, 800mm Tubeaxial

Component	Component Type	Depth (m)	Width (m)	Height (m)	Weight (kg)	Mounting Type
CVS-0800-4/4P F300	Tubeaxial Housed Propeller Fan	0.51	0.89	0.93	100.9	Base Mount - Isolated

Table 3B – Natural Frequency Search Results, 800mm Tubeaxial

	X-Direction (Hz)	Y-Direction (Hz)	Z-Direction (Hz)
Lowest Natural Frequency of Test Unit in Each Axis	3.40	5.00	5.10

Table 3C – Seismic Test Summary, 800mm Tubeaxial

Demand Level		Horizontal Acceleration (g)		Vertical Acceleration (g)	
Sds (g)	z/h	A_{FLX}	A_{RIG}	A_{FLX}	A_{RIG}
2.00	1.00	3.20	2.40	1.67	0.67
2.50	0.00				

CONCLUSIONS:

1. Test performance of the 800mm tubeaxial fan was 0.80% below the designed flowrate along the submitted system resistance. This is within the industry standard tolerance stated in AMCA 211.
2. Power of the 800mm fan is slightly exceeding the AMCA 211 tolerance at the point of rating. Potential reasons for this are estimation of rated power based on fan efficiency and a non-calibrated motor.
3. A jet fan thrust value of 62.08 Newtons in the forward direction was calculated using an equation based on wide-open volume flowrate and fan size at standard density. This calculation is shown at the end of the report in Appendix A.
4. Natural frequency searches in the X, Y and Z axes as well as a seismic test was performed on the 800mm tubeaxial fan. The tested seismic level met the requirements of an ICC-ES AC156 test using an S_{ds} level of 2.50.
5. Following the seismic test, the propeller was able to spin freely in the housing and no visual damage was observed on the unit.

RECOMMENDATIONS:

1. For sound purposes, it is recommended to use a different number of blades on the 400mm jet fan. The number of blades and vanes should not share common divisors.
2. Future product ratings would benefit from showing a true horsepower curve. True fan power curves will create a polynomial curve over the range of test points instead of a constant value.
3. Tip clearance (radial distance from end of blades to inside of housing) of the 400mm jet fan was measured in multiple locations. The average measurement was 0.195" (4.953mm), or 1.23% (0.195"/15.75") of the propeller diameter.

PROCEDURE:

1. Air test performance was obtained per AMCA 210-16, figure 15 for all tests. An inlet bell and outlet ducts were ordered by TCF for the testing.
2. Outlet sound testing was obtained per AMCA 300-14, installation type 3B (tubeaxial fan) and 3D (jet fan).
3. Seismic testing was performed in accordance with ICC-ES AC156. A natural frequency resonance search and single seismic test were performed.

ADDITIONAL TEST NOTES:

1. Both fans were direct-driven models. Motor calibration curves were not available, nameplate motor efficiency was applied to all test data in the report. Motor efficiency on the 400mm fan was assumed to be 85%. This parameter was not listed on motor nameplate.
2. Fans were operated on a VFD in the TCF laboratory at 50.0Hz.
3. All chamber tests used an inlet bell at the fan inlet. Total sound tests did not use an inlet bell.
4. Motor input power was obtained using a calibrated wattmeter. Input watts, frequency, power factor, amps and volts were recorded.
5. In accordance with AMCA 300, sound power levels were obtained in a reverberant room. Sound pressure levels in this report at various distances were calculated using AMCA 303.
6. 800mm fan was tested in one direction only as noted on the housing. Primary direction was defined as air over the motor first.

7. 400mm jet fan was a brand-new propeller that had not been previously built or tested. Propeller was fully CNC-machined from an aluminum billet.
8. 400mm jet fan did not have a defined direction labeled and was stated to be 100% reversible. Air over the propeller first was estimated to provide the best performance, therefore this was defined as the forward direction.
9. 400mm jet fan amperage at wide-open volume was recorded as 3.6A forward and 3.7A reverse. Nameplate full-load amps is
10. Both fans were mounted on RIS isolators for all air and sound tests.
11. 800mm sound data in this report was obtained at four different locations on the performance curve. These points are labeled in figure 1. Data shown in tables 1 and 2 on the front page were taken from determination number 3, which was closest to the designed point of operation.
12. Seismic test results are shown at a damping level of 5%.
13. The test unit was mounted on four seismic-rated isolators manufactured by VMC, model MSS-1C-100. These springs were selected at the time of test, no prior point-load analysis was performed.

Table 4 – Motor Nameplate Data

400mm Jet Fan			
Manufacturer	GAMAK	Efficiency	n/a
Model #	VGMPADF90L4/2	Power Factor	n/a
Serial #	418051022	Frame Size	n/a
Voltage	400	RPM	2835
Amperage	4.20	Power (HP)	2.68

800mm Tubeaxial Fan			
Manufacturer	WEG	Efficiency	.845
Model #	n/a	Power Factor	0.80
Serial #	1217-TCF-002	Frame Size	n/a
Voltage	415	RPM	1445
Amperage	8.23	Power (HP)	5.00

Figure 1 – Air Performance Result – 800mm Tubeaxial

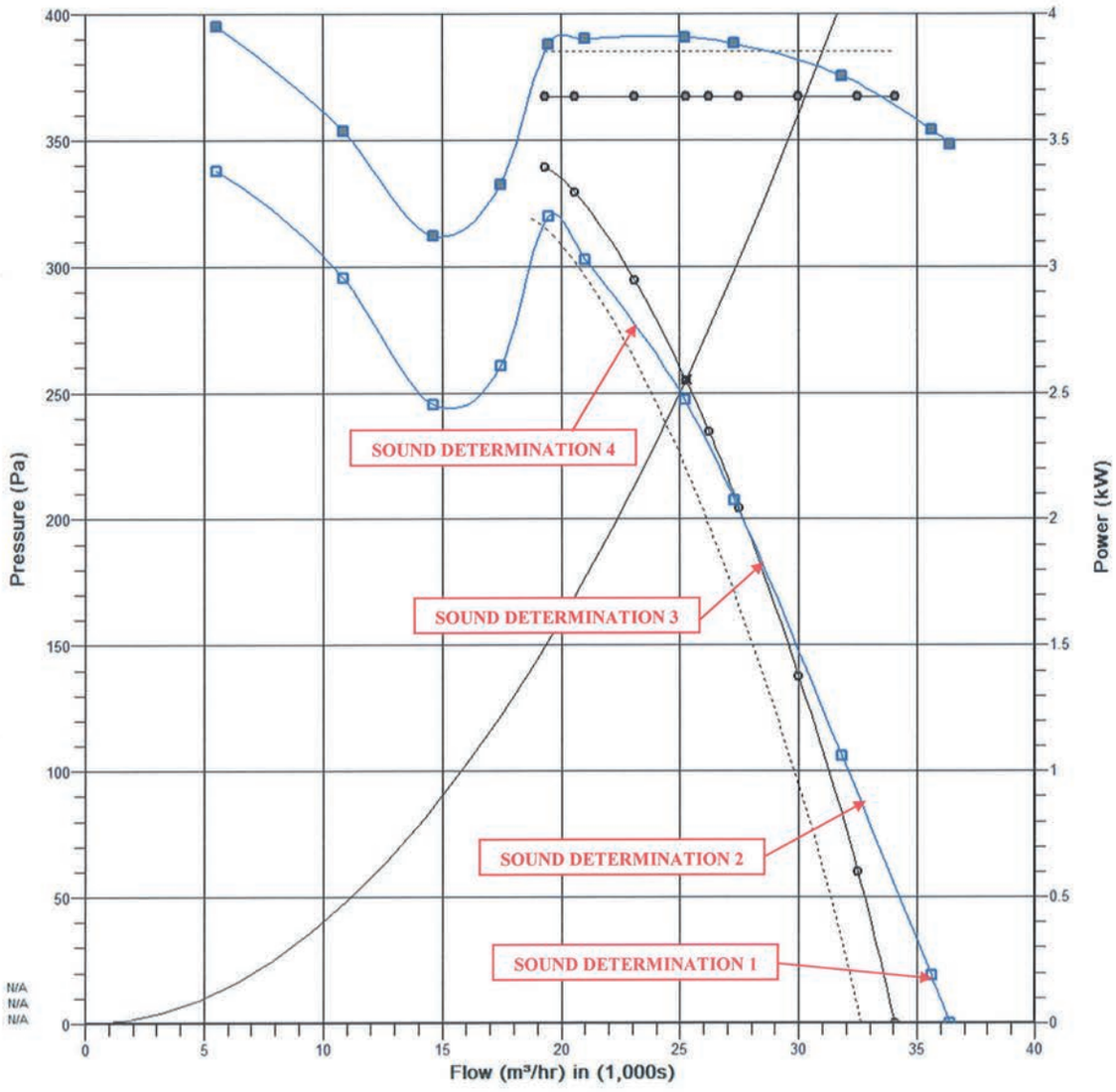


Figure 1 Legend
Black Circles – Cvsair Catalog Data (Submittal)
Black System Curve (Parabola) – Design Performance
Black Dashed Line – AMCA 211 tolerance (applied to Cvsair catalog data)
Blue Squares – TCF test data of Cvsair fan (air over motor first)

Figure 2 – A-Weighted Outlet Sound Power Level Result – 800mm Tubeaxial

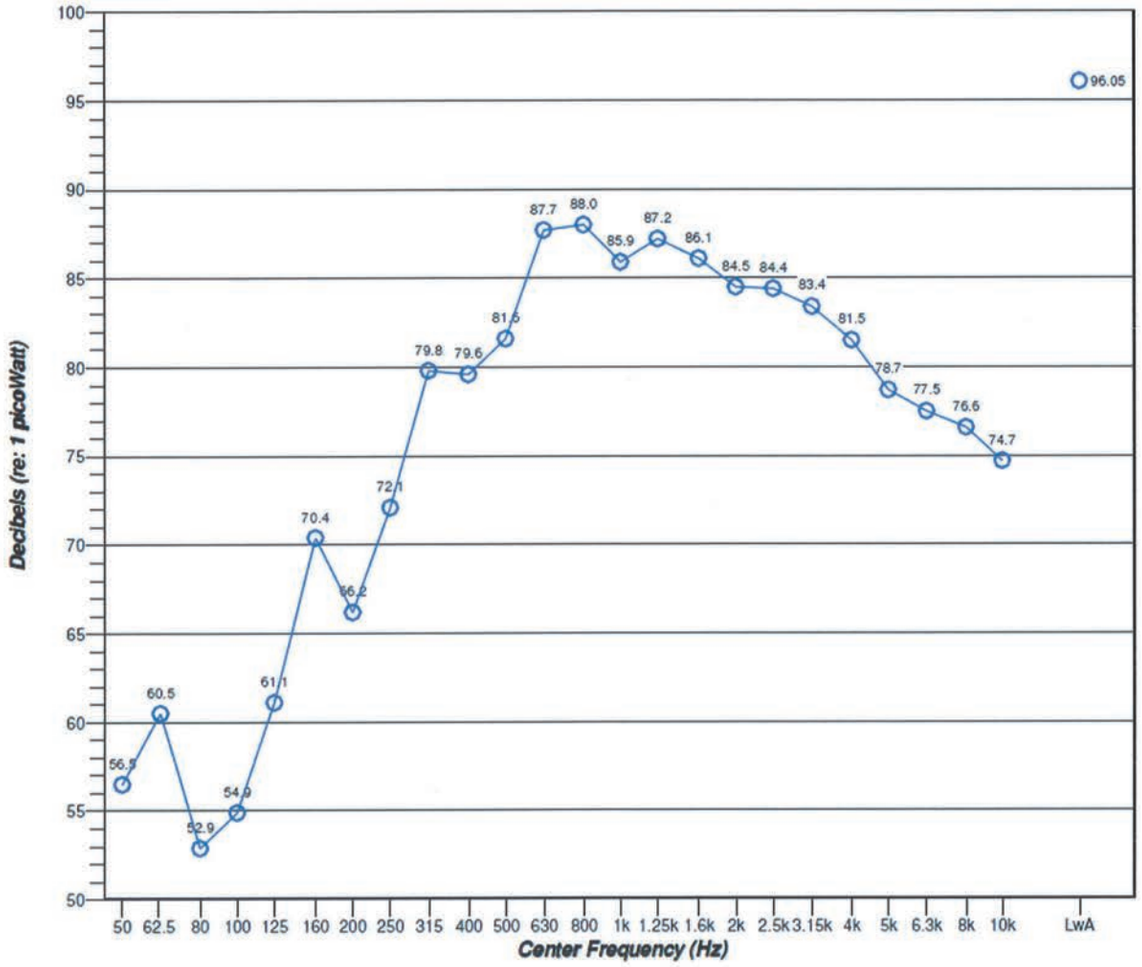


Figure 3 – A-Weighted Outlet Sound Pressure Level Results at 1, 3 and 5 meters – 800mm Tubeaxial

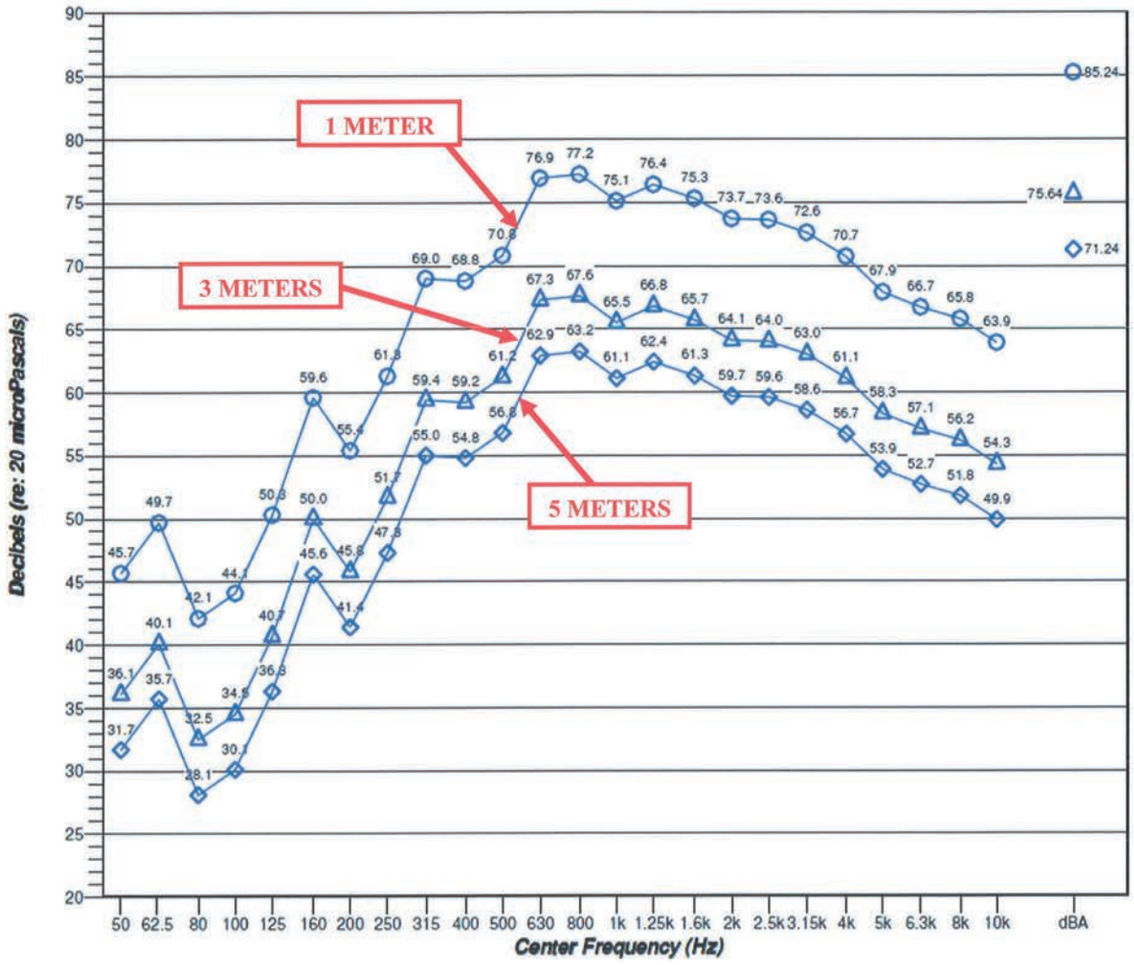


Figure 4 – Air Performance Results– 400mm Jet Fan

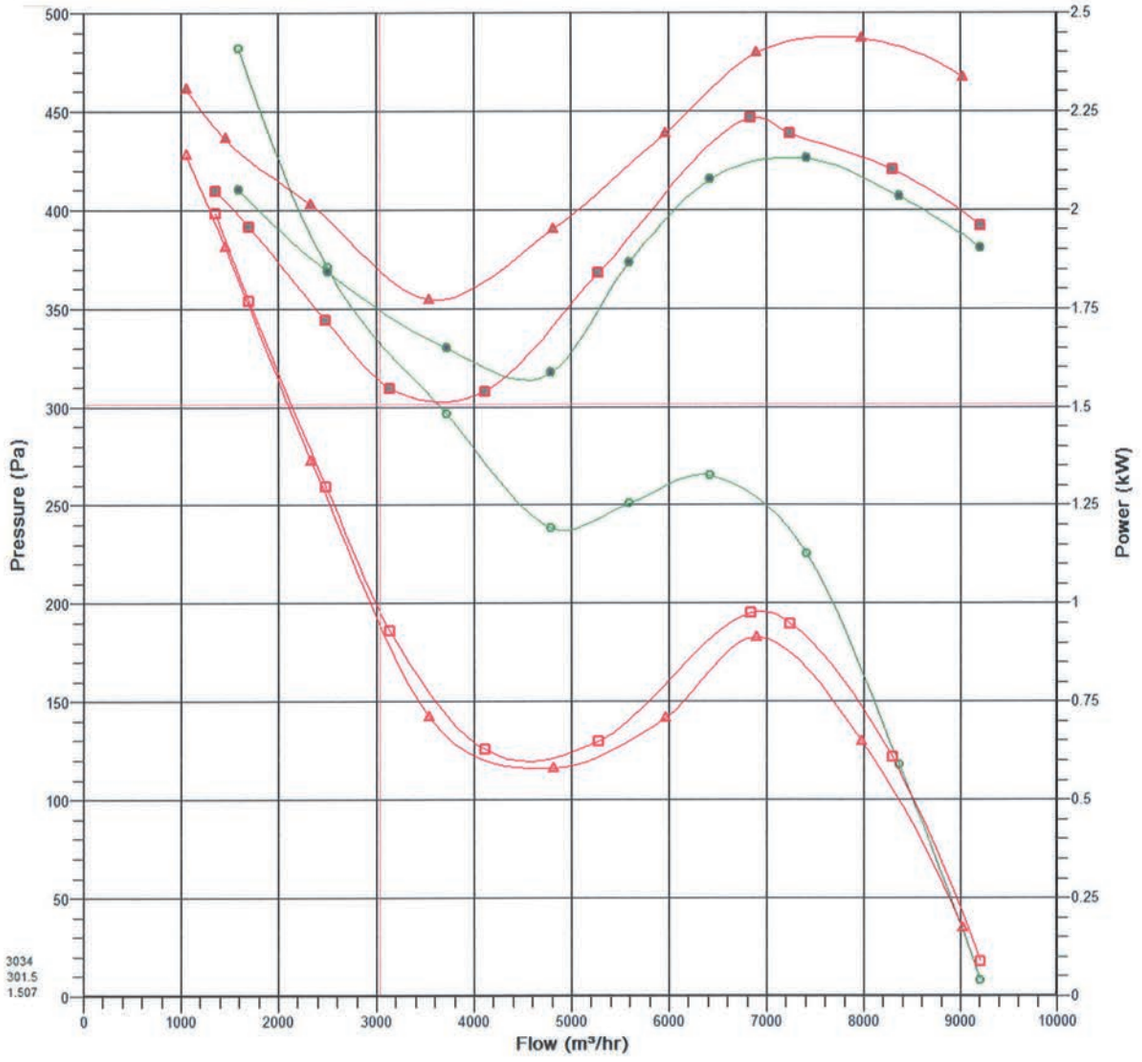


Figure 4 Legend

Green Circles – 400mm Jet Fan, FORWARD direction (air over propeller first), test speed = 2900 RPM

Red Squares – 400mm Jet Fan, REVERSE direction (air over motor first), test speed = 2900 RPM

Red Triangles – 400mm Jet Fan, REVERSE direction (air over motor first), test speed = 1450 RPM (corrected to 2900RPM)

Figure 5 – A-Weighted Outlet Sound Power Level Results – 400mm Jet Fan

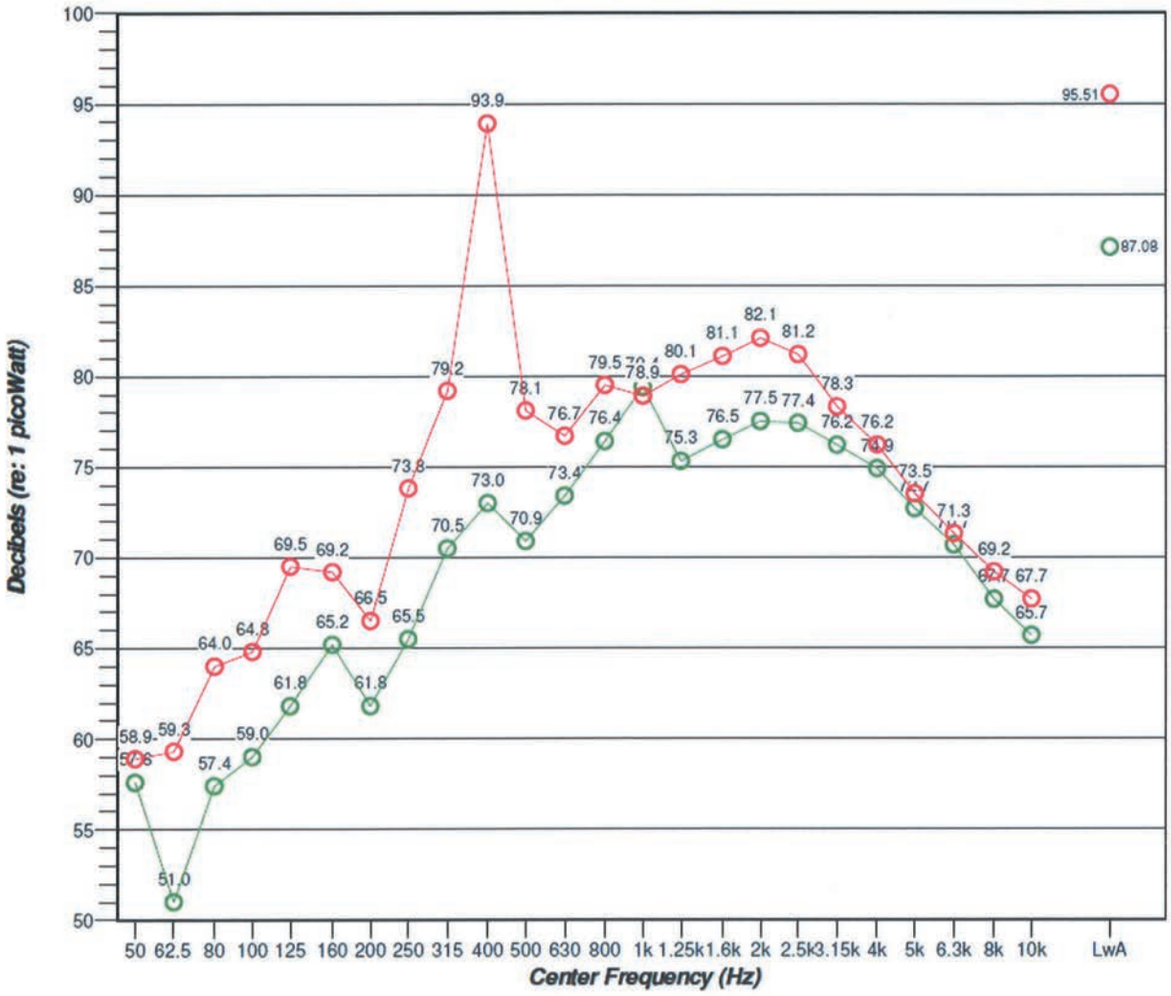


Figure 5 Legend

Green Circles – 400mm Jet Fan, FORWARD direction (air over propeller first)

Red Circles – 400mm Jet Fan, REVERSE direction (air over motor first)

Figure 6 – A-Weighted Outlet Sound Pressure Level Results at 1, 3 and 5 meters – 400mm Jet Fan

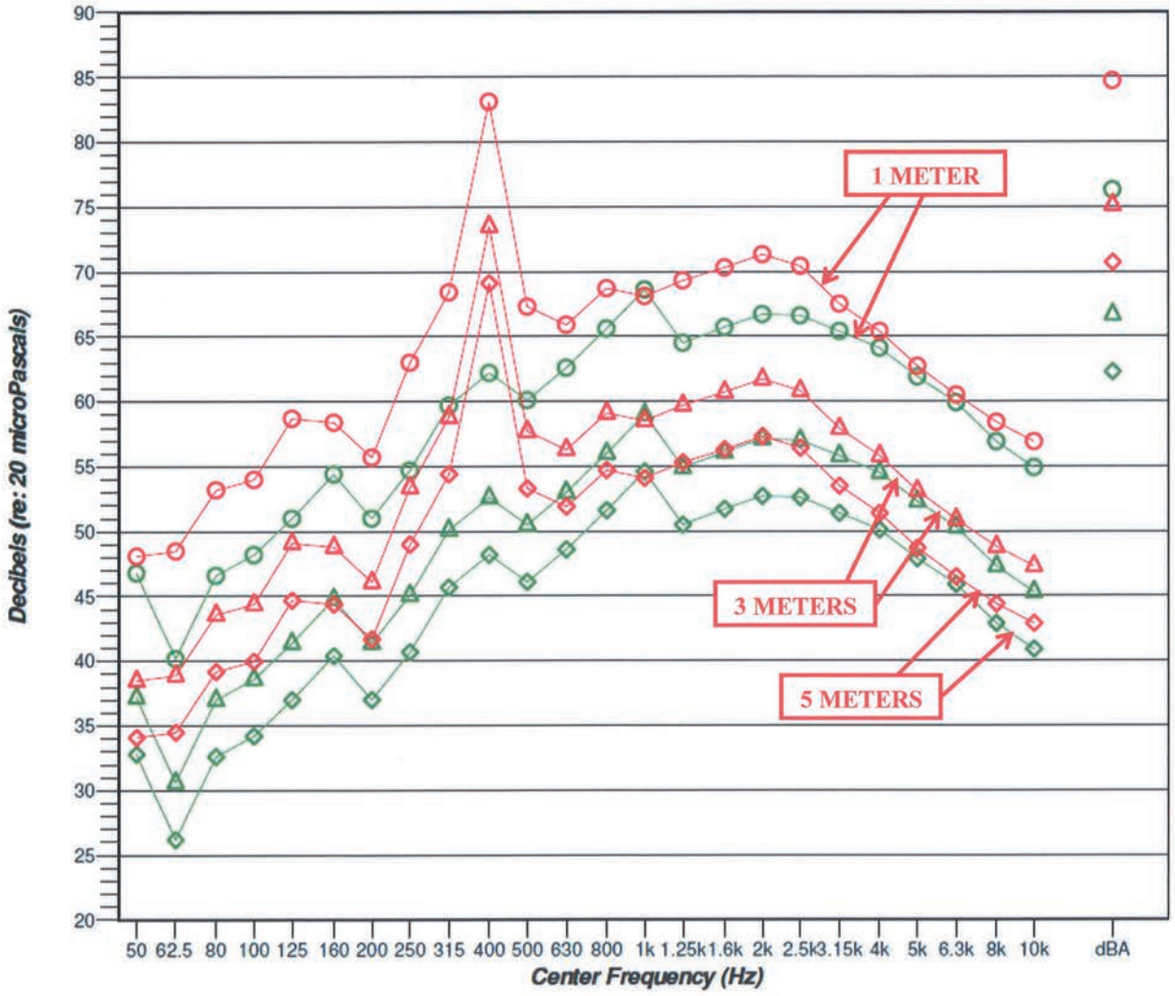


Figure 6 Legend

Green Circles, Triangles, Diamonds – 400mm Jet Fan, FORWARD direction (air over propeller first)
Red Circles, Triangles, Diamonds – 400mm Jet Fan, REVERSE direction (air over motor first)

Figure 7 – A-Weighted Total Sound Power Level Results – 400mm Jet Fan

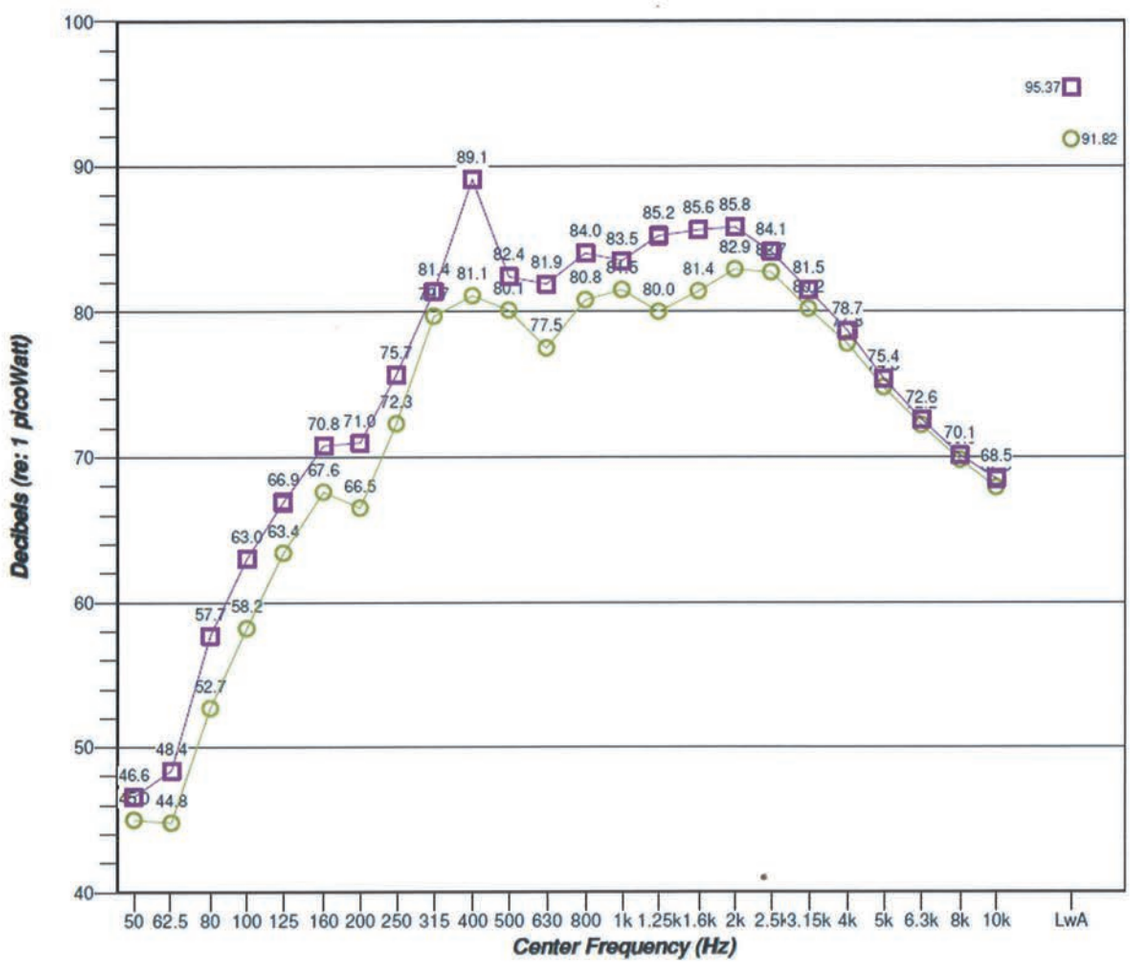


Figure 7 Legend

Olive Circles – 400mm Jet Fan, FORWARD direction (air over propeller first)

Purple Squares – 400mm Jet Fan, REVERSE direction (air over motor first)

Figure 8 – A-Weighted Total Sound Pressure Level Results at 1, 3 and 5 meters – 400mm Jet Fan

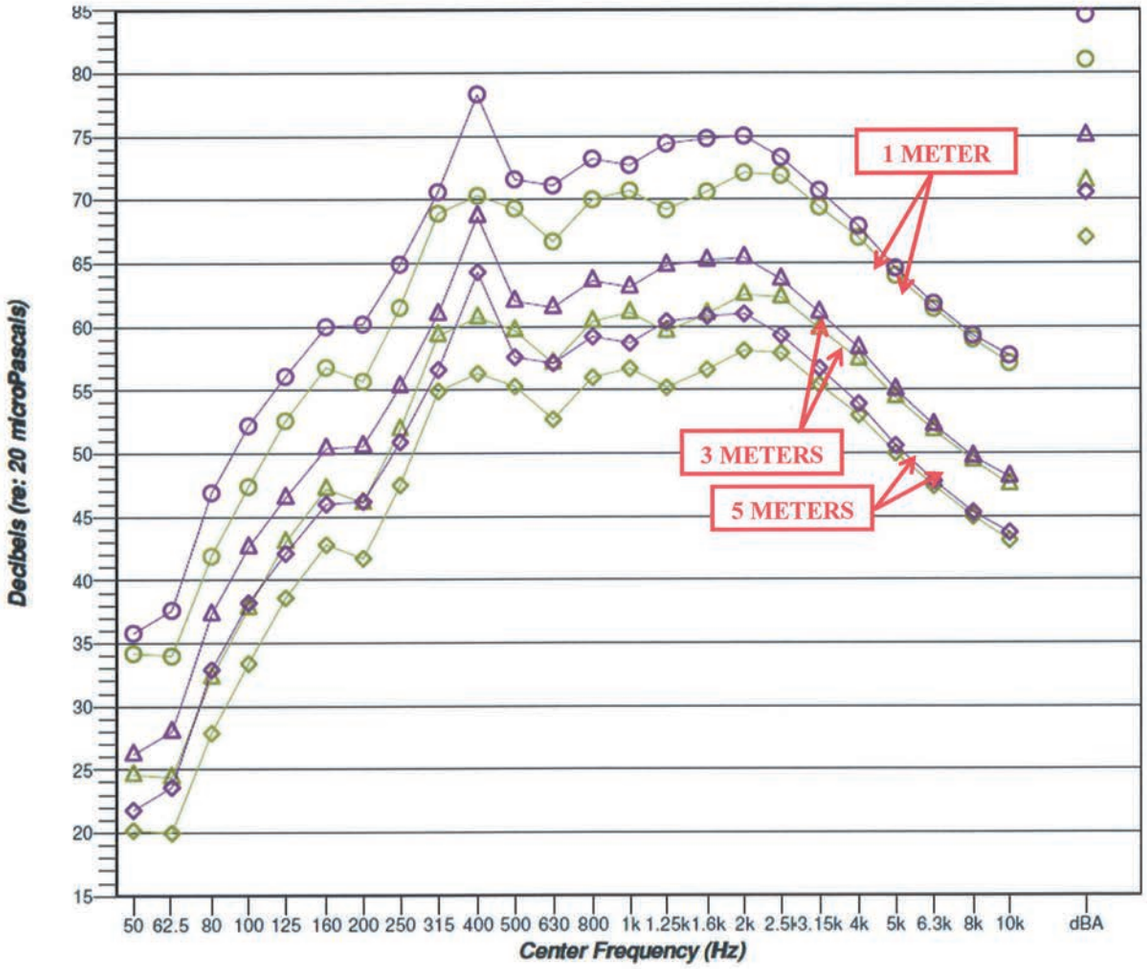


Figure 8 Legend

Olive Circles, Triangles, Diamonds – 400mm Jet Fan, FORWARD direction (air over propeller first)

Purple Circles, Triangles, Diamonds – 400mm Jet Fan, REVERSE direction (air over motor first)

Figure 9 – Natural Frequency Search – 800mm Tubeaxial Fan – X-Direction

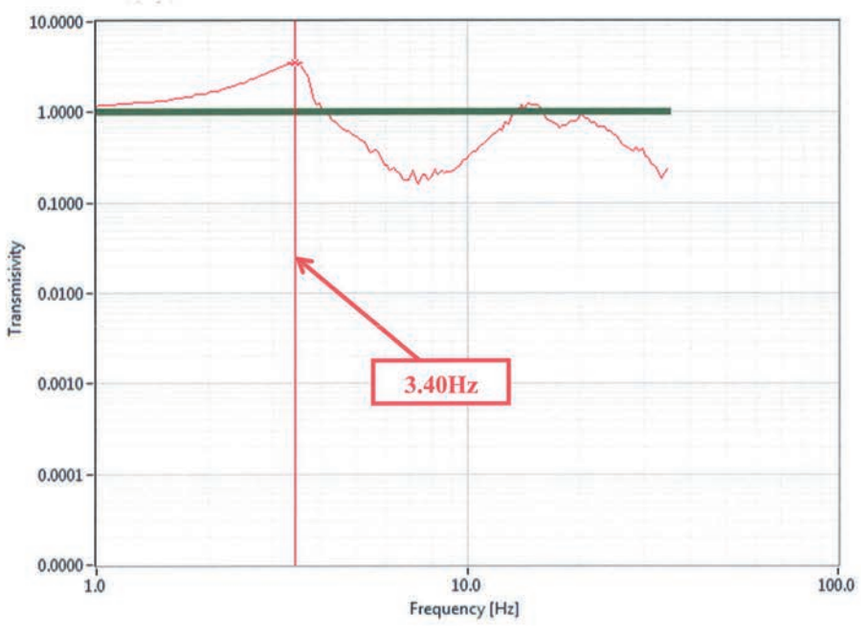


Figure 10 – Natural Frequency Search – 800mm Tubeaxial Fan – Y-Direction

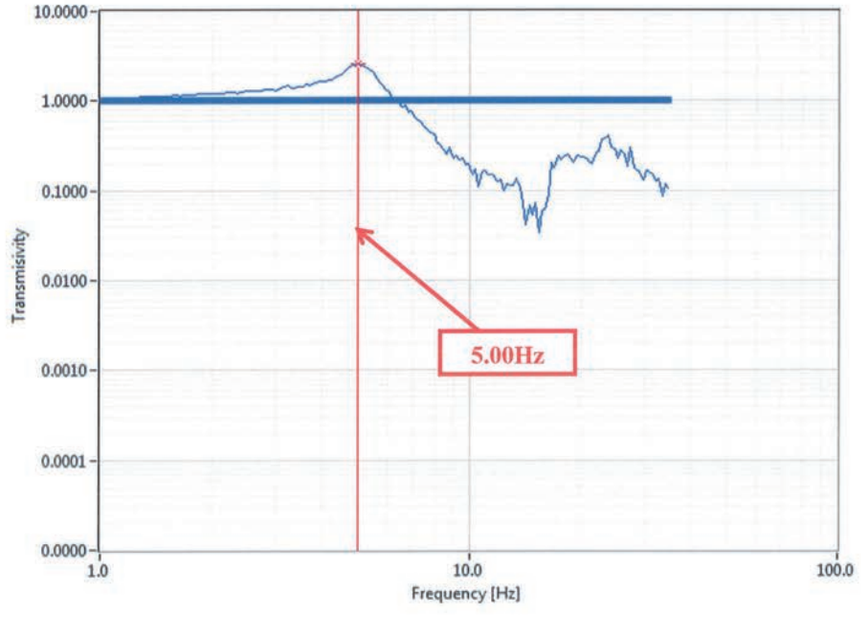


Figure 11 – Natural Frequency Search – 800mm Tubeaxial Fan – Z-Direction

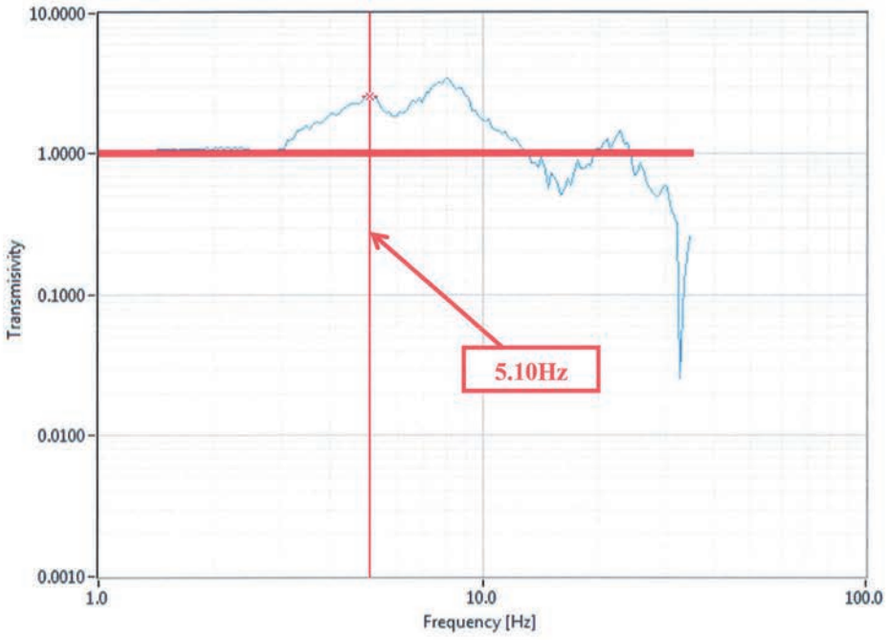


Figure 12 – Seismic Test Result – 800mm Tubeaxial Fan – X-Direction – Response Spectra

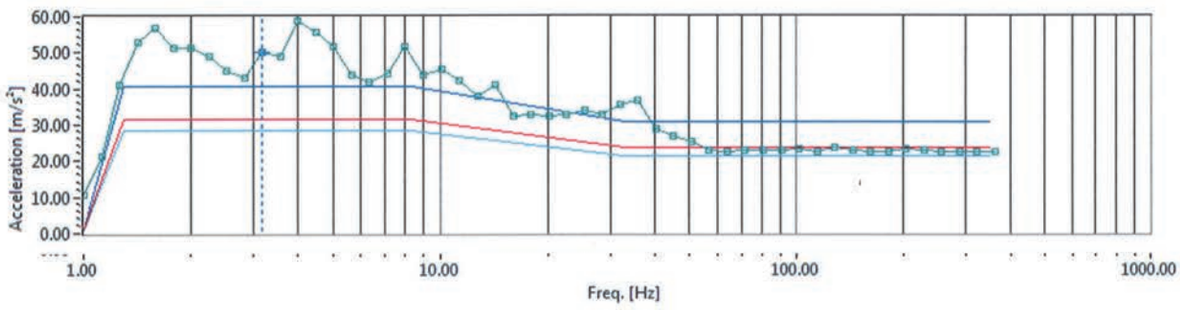


Figure 13 – Seismic Test Result – 800mm Tubeaxial Fan – X-Direction – Time History

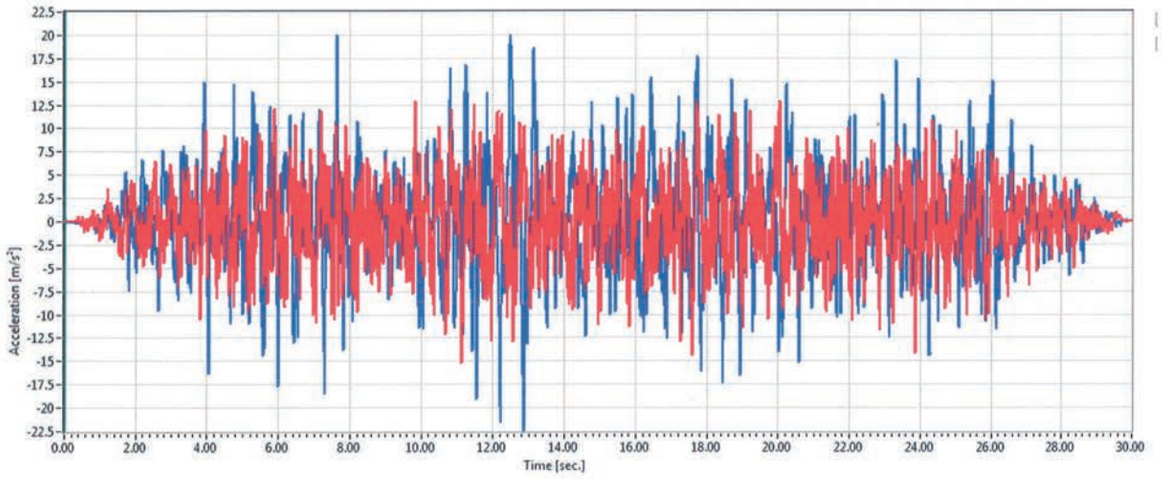


Figure 14 – Seismic Test Result – 800mm Tubeaxial Fan – Y-Direction – Response Spectra

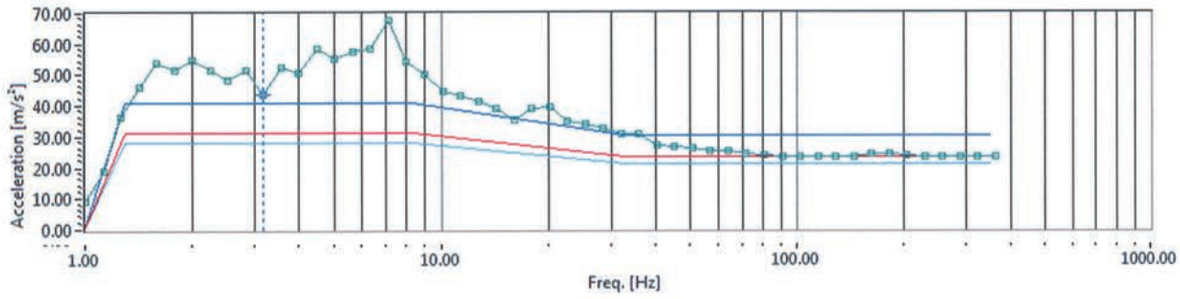


Figure 15 – Seismic Test Result – 800mm Tubeaxial Fan – Y-Direction – Time History

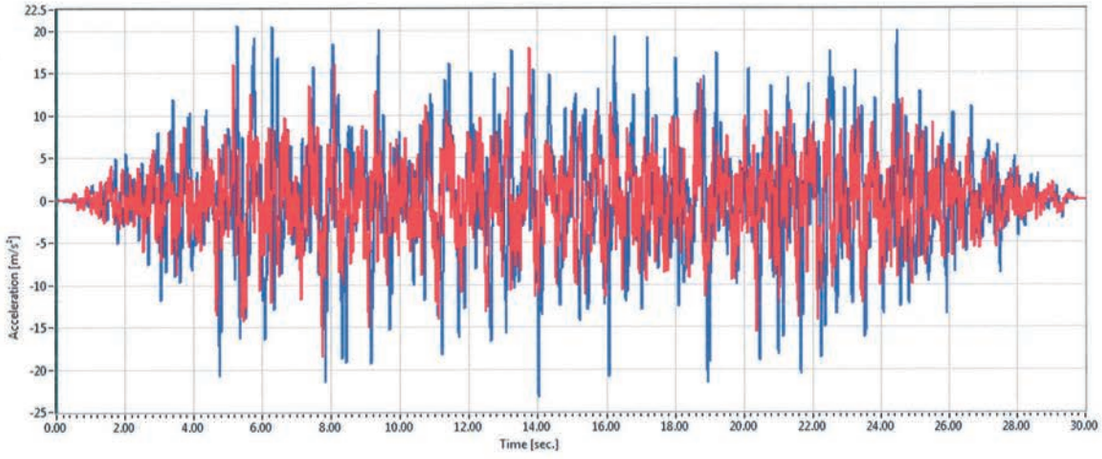


Figure 16 – Seismic Test Result – 800mm Tubeaxial Fan – Z-Direction – Response Spectra

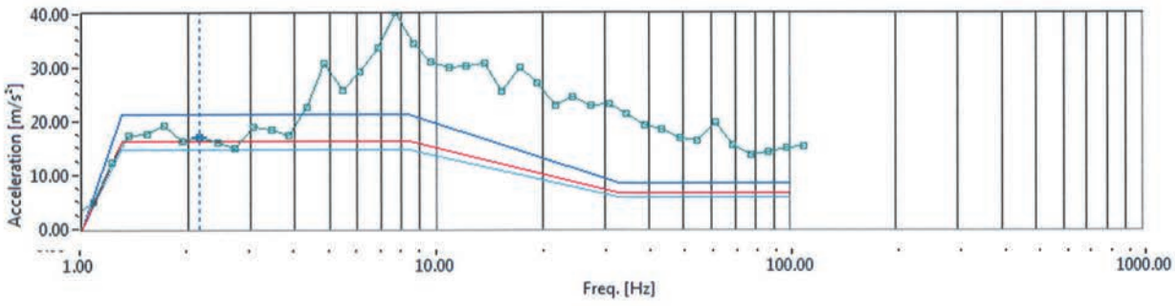
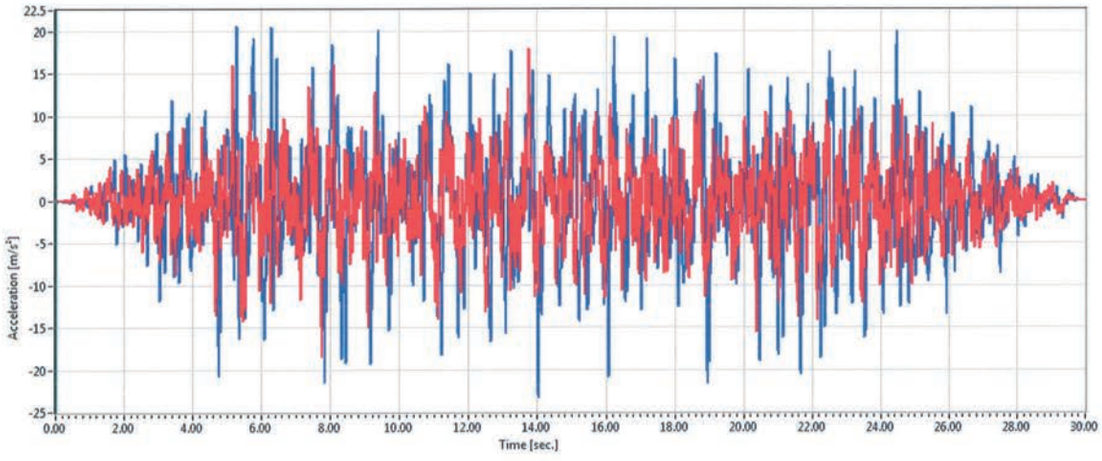
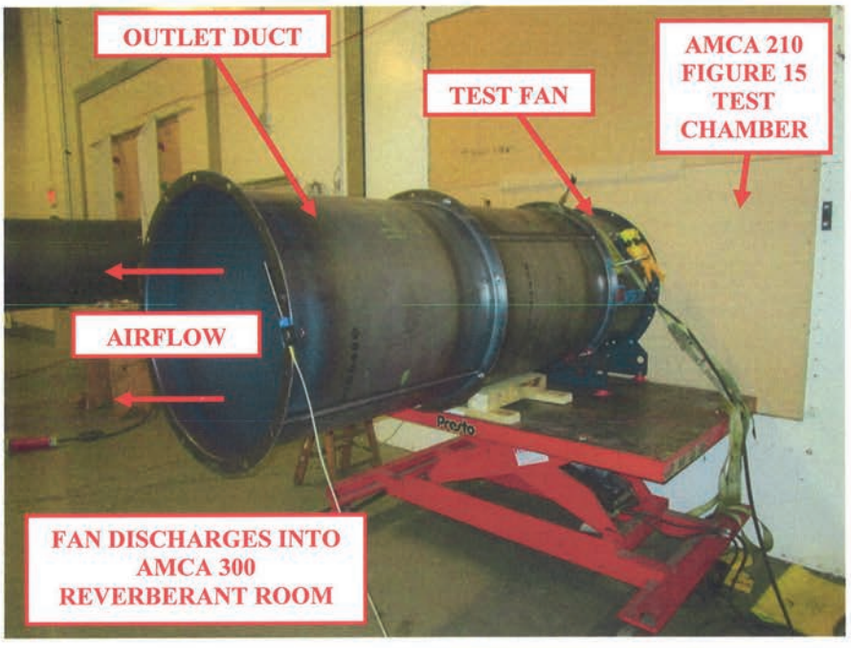


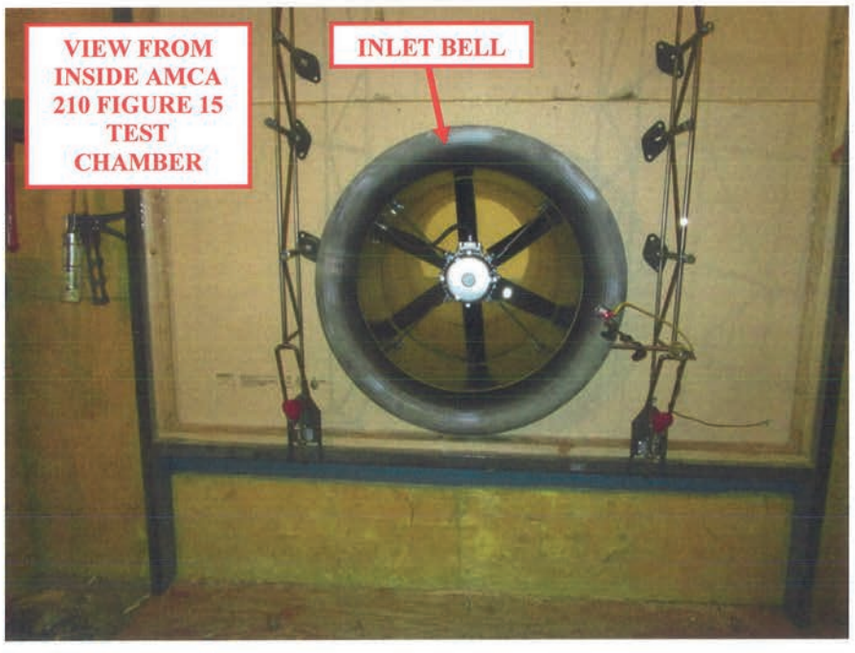
Figure 17 – Seismic Test Result – 800mm Tubeaxial Fan – Z-Direction – Time History



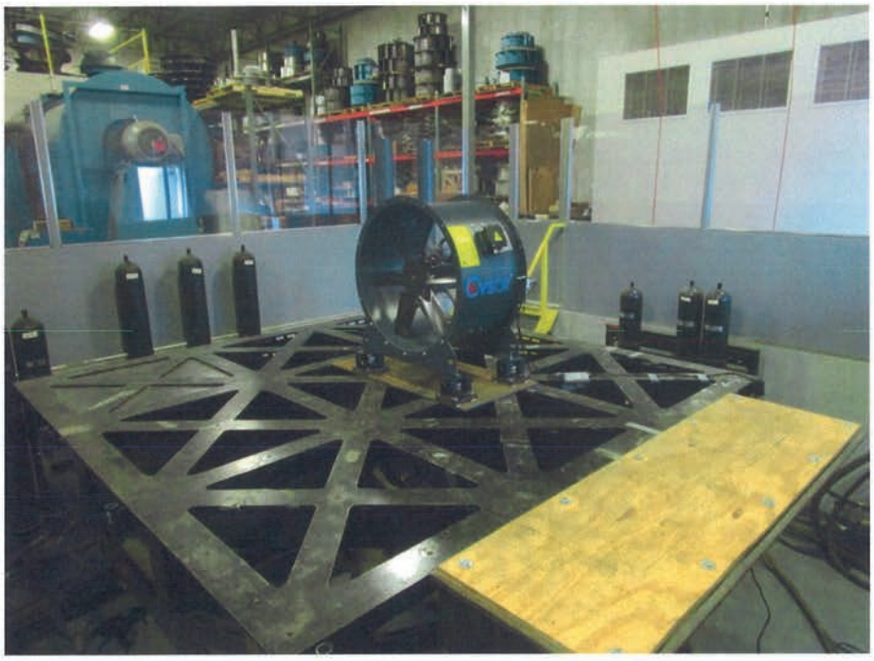
PICTURES:

800mm Tubeaxial Air and Sound Test Setup

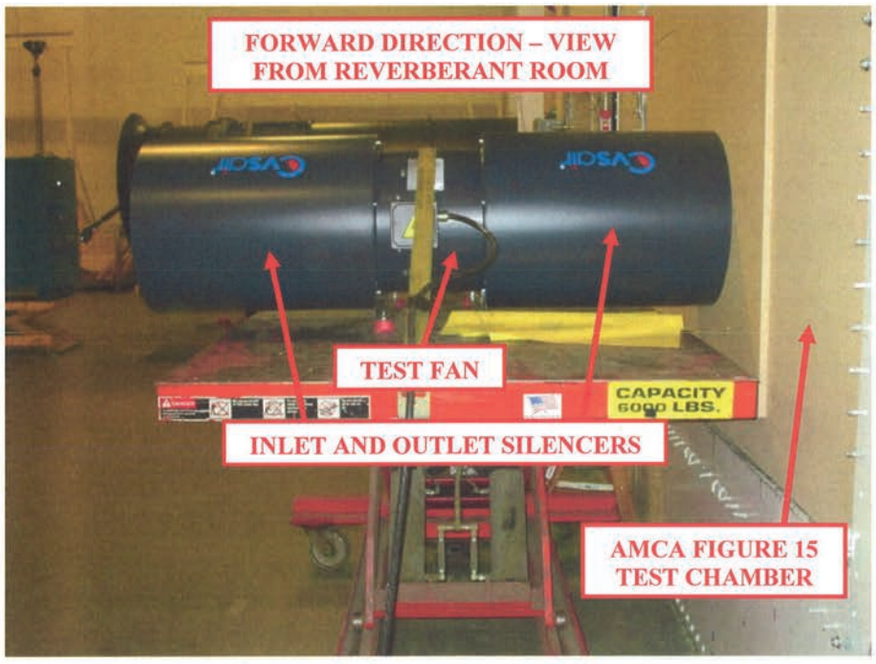


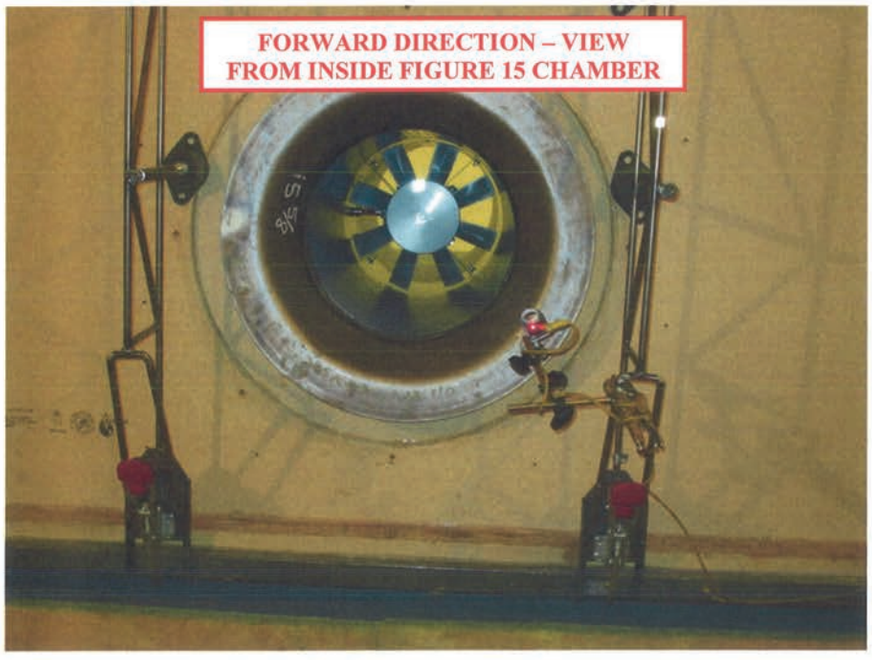


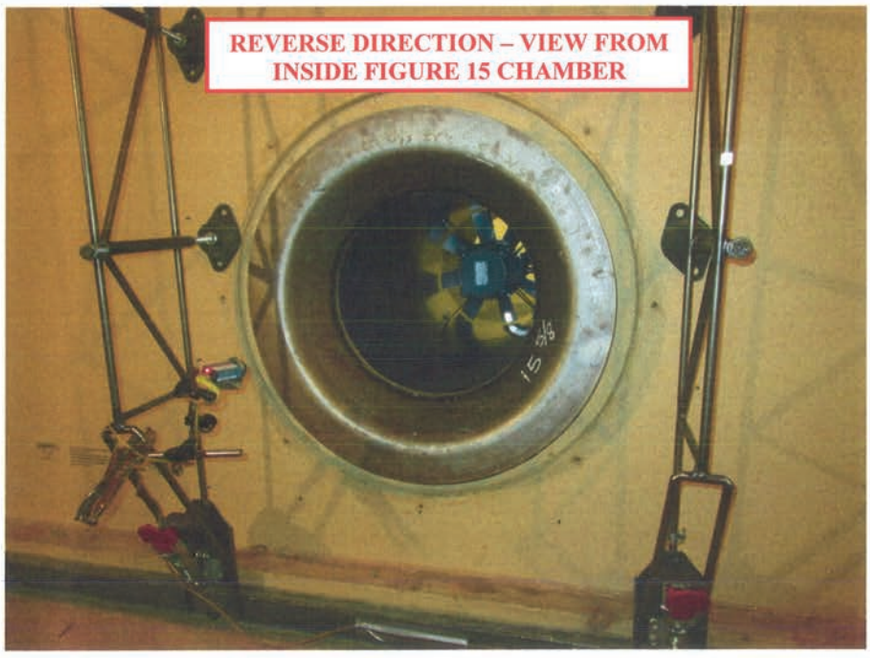
800mm Tubeaxial Seismic Test Setup

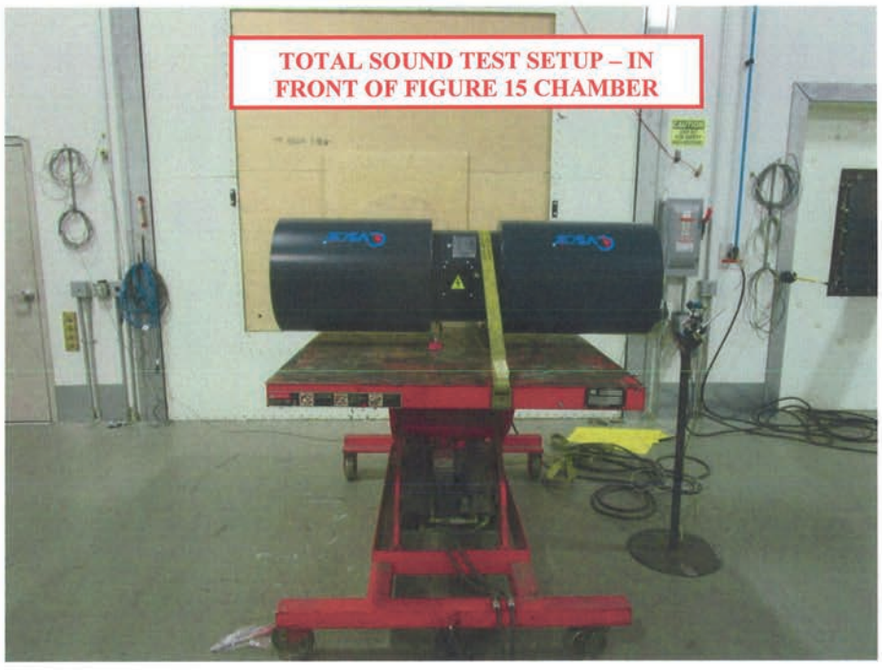


400mm Tubeaxial Air and Sound Test Setup









APPENDIX A

THRUST CALCULATION

$$Thrust = \frac{(CFM)^2}{(DIA)^2 * 8423.1}$$

$$Thrust = \frac{(5{,}450)^2}{(15.75)^2 * 8423.1} = 13.95\ lbf$$

$$13.95\ lbf * 4.45 \frac{N}{lbf} = 62.08\ Newtons$$

where CFM is the flowrate in cubic feet per minute and,
DIA is the diameter in inches and,
Thrust is in units of pound-force.

Calculation shown was performed at standard density of 1.201 kg/m^3 / 0.075 lb$_m$/ft^3

www.cvsair.com.tr

Car Park Ventilation Systems


D
9
C
20
C
15

CAR PARK VENTILATION SYSTEM

ENERGY
EFFICIENT
LONG LIFE

PRODUCT FEATURES

- VOLUME CALCULATIONS
  Volume (V) = Area (A) x Height (h)
  Area = Width x Lenght
  = 30 x 100 = 3000 m2
  Height= 3 m
  Volume = 3000 x 3 = 9000 m3

- AIRFLOW CALCULATIONS
  Airflow (Q) = Volume (V) x Air Change (Ach)
  a)Daily Ventilation (CO) Airflow
  Air Change = 6/h
  Airflow = 9000 x 6 = 54000 m3/h
  b)Fire Mode (Ventilation)
  Air Change = 10/h
  Airflow = 9000 x 10 = 90000 m3/h

  * Minimum Air change rates are used based on BS 7346-7 Standards. Air change rate should be higher as per architechtural requirements

- EXHAUST ANDFRESHAIR (SUPPLY)
- FAN SELECTION
  A-Airflow
  Exhaust Fan (EXF)
  EXF = 90.000 m3/h x %50 = 45.000 m3/h
  EXF-1 = 45.000 m3/h
  EXF-2 = 45.000 m3/h

- *Exhaust fans must be back up %50 as per BS 7346-7 Standards
-
- B-Pressure Drop
- Pressure drops on Shaft, Silencer, Dampers and Grills will be calculated based on air speeds.
-
- C-Fire Endurance
- Exhaust and Jetfans will be selected based on TS/EN 12101-3 Fire Endurance standards

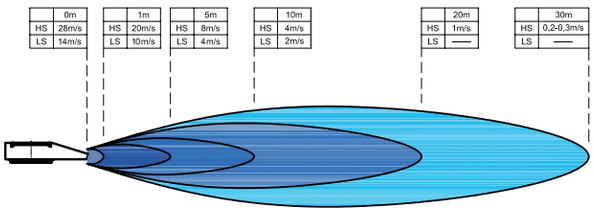
Class	Heat (C)	Minimum Endurance (Min)
F200	200	120
F300	300	60
F400	400	120
F600	600	60
F842	842	30

*TS/EN 12101-3 Fire Endurance Class

PRODUCT FEATURES

- CAR PARK VENTILATION SYSTEM AND PLACEMENT

  Optimum Thurst power jetfan will be selected consider on size of carpark. Radial Jetfans applications will be advantage on limited ceil height basements and non-reversable options
  W=15 , L=25m



- SHAFT SIZING
- a)Air Speed Method;

  Shaft Sizes will be calculated with Avarage air speed
  8 m/s on section area
  Airflow = Area x Speed
  Area = 54000 m3/h x 1/3600 h/sec / 8 m/s
  =1,875 m2

- b) Fan Size Method;

  Placement of fans inside shaft based on section air
  speed, Fan sizes must be considered

- SHAFT DAMPER SIZING

  Zone arrangement at the interstory , Motorized Smoke Dampers will be selected based on 8 m/sec
  for Each fan inside exhaust shaft

  Efective Area = 27.000 m3/h x 3600 h/sec / 8 m/sec
  = 0,93 m2
  Selected Damper is 2 pcs 1000x1000 mm

- SYSTEM SCREEN PREPARATION

PRODUCT CODE	OPERATION MODE			
	CO Low	CO Mid	CO High	Fire
JF-1	50%	50%	50%	100%
JF-2	50%	50%	50%	100%
JF-3	50%	50%	50%	100%
JF-4	50%	50%	50%	100%
JF-5	50%	50%	50%	100%
JF-6	50%	50%	50%	100%
SEF-1	25%	50%	75%	100%
SEF-2	25%	50%	75%	100%
FAF-1	25%	50%	75%	100%
SD-1	OPEN	OPEN	OPEN	OPEN
SD-2	-	-	-	-

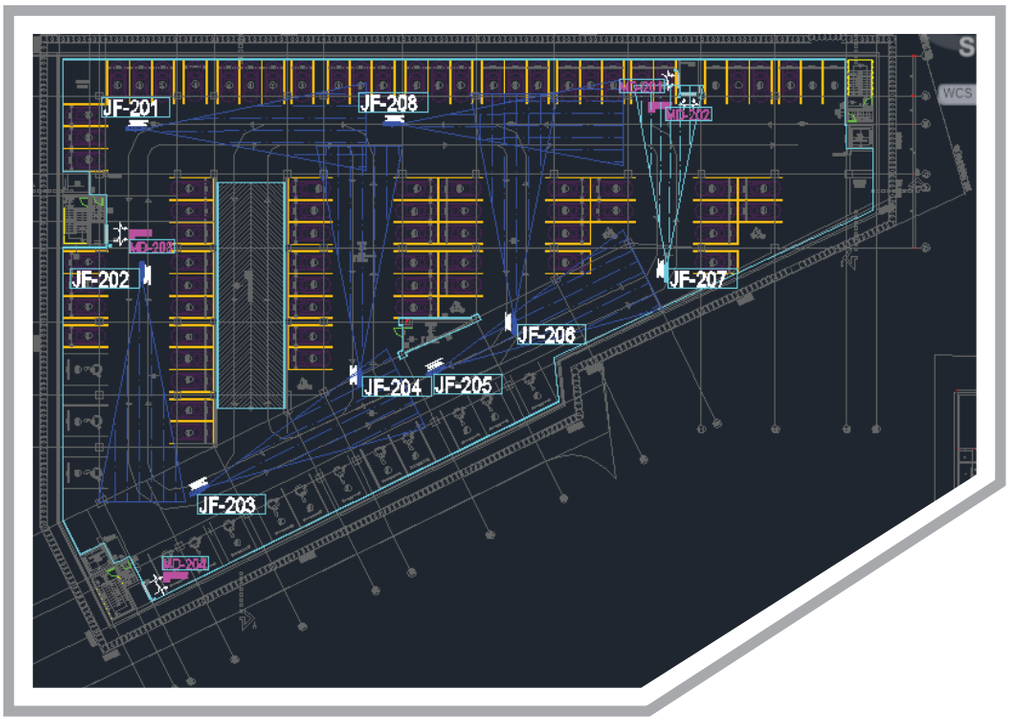
*Jetfans are operate with 3 min delay,

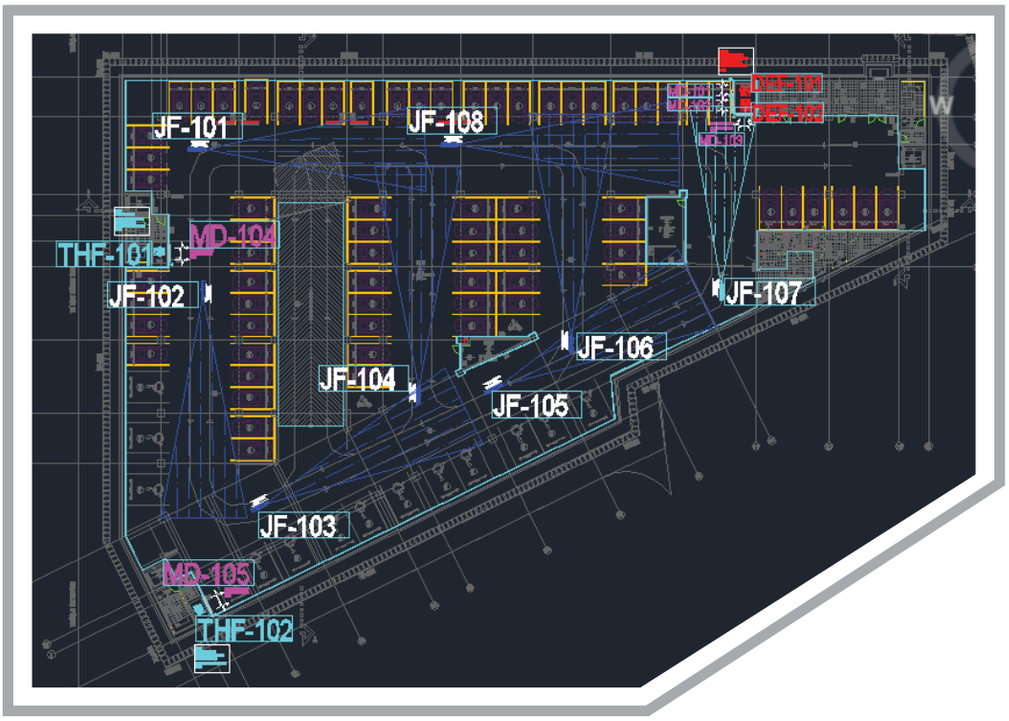
- CFD ANALYSIS

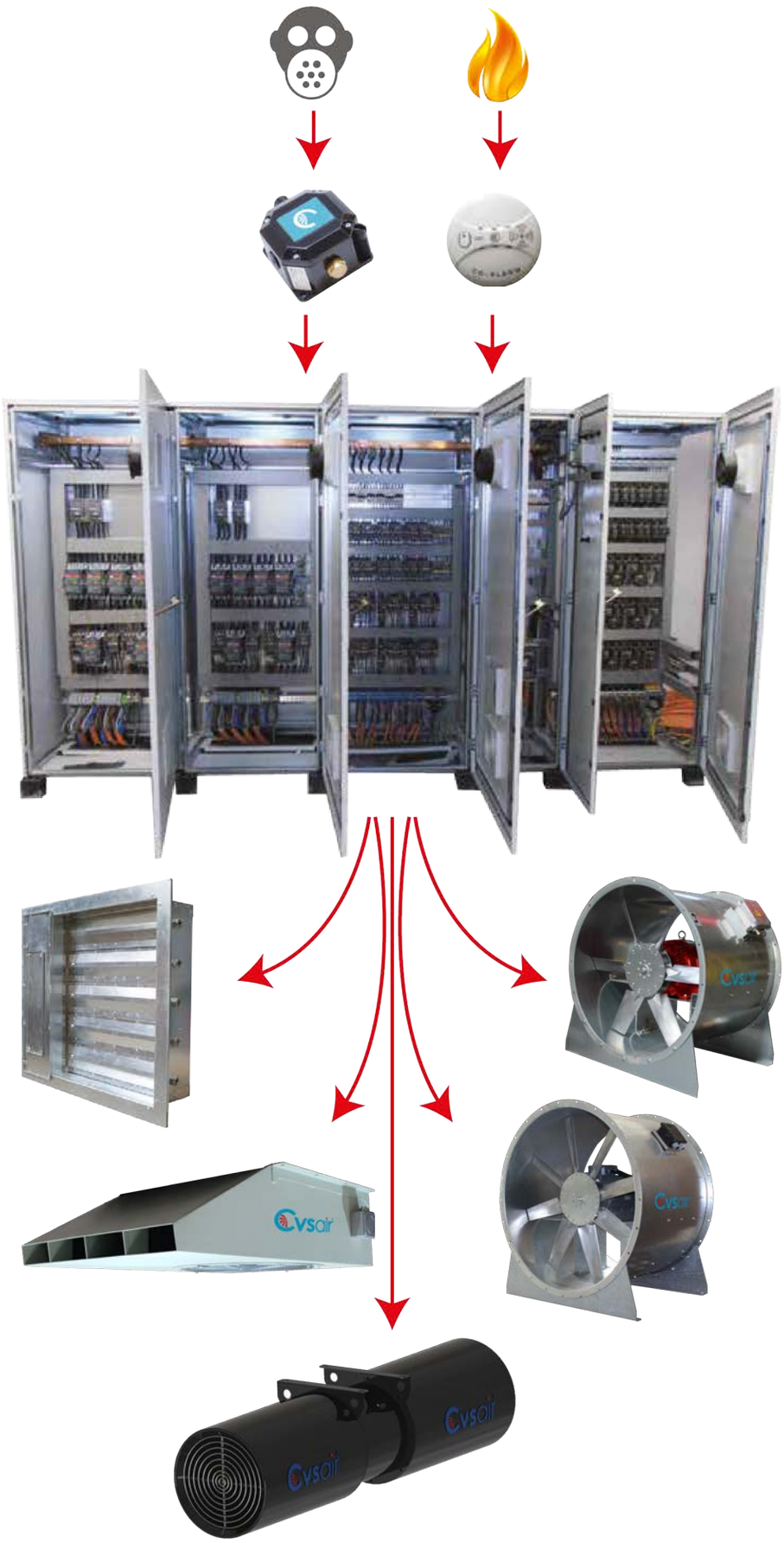
  Design model will be created with CFD programme
  and necessary modifications should be completed
  System operation will be checked with CFD simulation

CAR PARK VENTILATION SYSTEM

ENERGY EFFICIENT LONG LIFE







CAR PARK VENTILATION SYSTEM

ENERGY
EFFICIENT
LONG LIFE

JETFAN SYSTEM COST ESTIMATION	
SYSTEM	PRICE
JETFAN	24.000 CVS
SMOKE EXHAUST FANS	13.500 CVS
FRESHAIR (SUPPLY) FANS	4.100 CVS
SHAFT DAMPERS	3.100 CVS
SYSTEM CONTROL BOARD	16.000 CVS
ELECTRICAL CABLING	14.000 CVS
ASSAMBLING	5.600 CVS
CO DETECTION SYSTEM	18.000 CVS
FIRE DETECTION SYSTEM	22.000 CVS
TOTAL	120.300 CVS

DUCT SYSTEM COS ESTIMATION	
SYSTEM	PRICE
VENTILATION DUCT	55.000 CVS
SMOKE EXHAUST FANS	48.000 CVS
FRESHAIR (SUPPLY) FANS	5.000 CVS
GRILLS	3.200 CVS
FIRE ZONE DAMPER	3.000 CVS
SYSTEM CONTROL BOARD	12.000 CVS
ELECTRICAL CABLING	3.000 CVS
CO DETECTION SYSTEM	18.000 CVS
FIRE DETECTION SYSTEM	22.000 CVS
TOTAL	169.300 CVS

ENERGY CONSUMPTION (DAILY USE)			
JETFAN	12 kW	SMOKE EXHAUST FANS	180 kW
SMOKE EXHAUST FANS	30 kW	FRESHAIR (SUPPLY) FANS	16,5 kW
FRESHAIR (SUPPLY) FANS	75 kW		
TOTAL	117 kW	TOTAL	117 kW

%40,4 ENERGY CONSERVATION			
DAILY CONSUMPTION*	351 kW	DAILY CONSUMPTION*	589,8 kW
ANNUAL COST**	25623 kW	ANNUAL COST**	43,055 kW

17432 CVS Advantage per year

*3 Hour Operation bases
**kW/h Price based on 0,20 CVS

-
- Calculation estimated based on; 8.000m2 carpark with 3 m height.
- Smoke exhaust fans, F300 fire rated and dual speed
- Price estimation included; one way silencer, connection feet, counter flange and anti-vibration set
- Jetfans are Axial (Impulse) type and 50/13 Newton power.
- The chart only for estimation and currency is accepted as “CVS”

CAR PARK VENTILATION SYSTEM

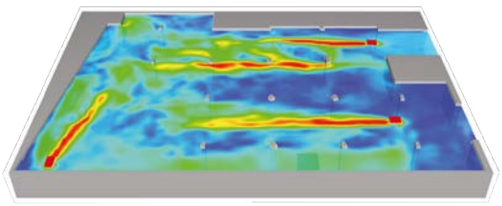
ENERGY EFFICIENT LONG LIFE

- AXIAL DUCT FAN
- Galvanized steel case (TS EN ISO 1461)
- Aerofoil aluminium impellers (Polyamide alternative)
- Adjustable pitch angle for maximum efficiency
- Frequency invertor
- Double speed

- DETECTION SENSORS
- Carbon Monoxide detection
- Fire detection (Smoke / heat)
- NO2 detection systems

- VERTICAL AXIAL ROOF FAN WITH FLAP
- Galvanised sheet metal with electrostatic oven drying case
- Aerofil sectioned aluminium blades
- Adjustable blade angels for maximum efficiency
- Three-phased motors suitable to operate with frequency inverters
- Suitable to operative outdoor
- EN 12101-3 certificated

- ROOF FAN
- Sheet steel casing
- Vertical exhaust
- Motor out of air flow
- Suitable for continuously 120°C
- Impeller ,backward curved blades



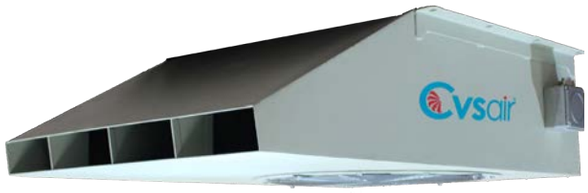
- CFD ANALYSIS
- Demonstration of speed, optical density, temperature
- smoke distribution analysis from 1.7 m (human eye level)
- Air velocities on ramps and escape routes are not above 5 m/s
- The visibility is not less than 10m
- Criteria for not exceeding 60°C in escape routes

www.cvsair.com.tr

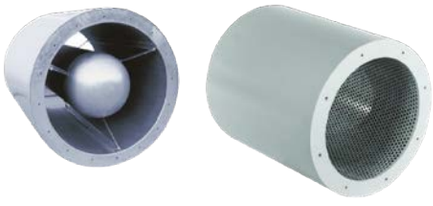
- CONTROL UNITS
- MCC /DDC Board
- Frequency invertor
- System script
- Operator Board
- Damage info
- Low Maintence and operating costs
- Energy saver

- AXIAL JET FAN
- 2 speed motors for daily ventilation and in case of fire
- % 100 unidirectional option
- Galvanized steel case (TS EN ISO 1461)
- Guard grill and adjustable deflector
- Self - sound absorber fan case
- Insulatıon class H, IP55 high efficiency IE2 motors
- EN 12101- 3 certified - 200°C / 2h, 300°C / 2h, 400°C / 2h
- % 100 Reversible

- DAMPER
- Action mechanism competent to fire
- Interstage zoning
-



- RADIAL JET FAN
- 2 speed motors for daily ventilation and in case of fire
- Galvanized steel case (TS EN ISO 1461)
- Guard grill and adjustable deflector
- Terminal box out of case
- Insulatıon class H, IP55 high efficiency IE2 motors
- EN 12101- 3 certified - 300°C / 2h, 400°C / 2h



- SILENCER
- With or without Pod
- Mounting to shotting and/or sucking side
- High sound distinctness

www.cvsair.com.tr

IOM

GENERAL INFORMATION

- Malzeme teslim alındığında, hasar durumu kontrol edilmeli, çalışmayı etkileyecek derecede hasarlı ürünler için tutanak tutulup CVSAIR' a ediniz When the material is received, damaged case must be checked, it will affect the degree of work refer to the place you purchased kept for damaged goods report
- Cihaz üzerindeki uyarı işaret ve etiketlerine uyunuz. Kullanma kılavuzunu sonuna kadar okuyunuz Obey warning signs and labels on the device. Please read the operator's guide to the end

GENERAL SAFETY INFORMATION

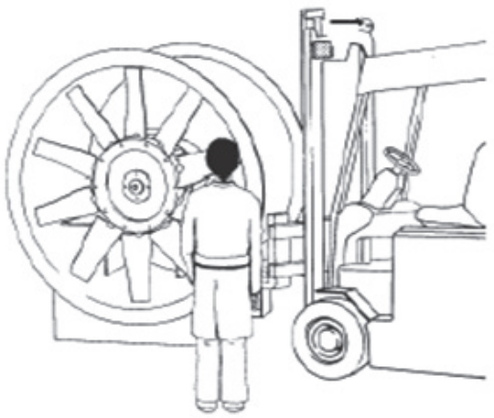
- Çalışmalardan önce tüm iş güvenliği kurallarına uyulmalı, önlemler ilgili mevzuatlara göre alınmalı, uygun ekipmanlar ve kıyafetler kullanılmalıdır Installation, operation and maintenance must be authorized and qualified personnel in operations. Must comply with all safety rules before working, measures should be taken in accordance with relevant legislation, appropriate equipment and clothing should be used
- Fan ve motorlara uygun bakım alanları bırakılmalı, erişim sağlanmalıdır, Montaj ve elektrik tesisatı yetkili teknisyenlerce yapılmalıdır Fan and motor should be left to the appropriate care and provided access. Installation and wiring must be carried out qualified technicians
- Bağlantılar cihaza ve üzerindeki etiketlere uygun olarak yapılmalıdır Connections must be made in accordance with the labels on and in the device
- Her türlü bakım onarım işlerinde enerjinin kapatılmış olduğuna dikkat edilmelidir All kinds of maintenance work should be noted that the power is turned off
- Montaj aşamasında fana ve kanatlara zarar verilmemelidir Mounting the stage of not damage the fans and wing
- Pervanenin dönüş yönü kontrolü kesinlikle elle yapılmamalı, koruyucu gözlük ve uygun eldiven giyilmelidir While control the rotation of the wheel do not to be hand contact and goggles and suitable gloves should be worn
- Enerji beslemesiyle fan etiketinde yazan değerlerin uygunluğu kontrol edilmeli uygun sigorta ve elektriksel elemanlar kullanılmalıdır The appropriateness of the value marked on the fan label should be checked with the appropriate power supply fuse and electrical components should be used
- Fanın emiş kısmında fana zarar verebilecek parçaların girmesi engellenmelidir The entrance of the parts that could damage the fan.Inline side should be avoided
- Fanın emiş ve üflemesinde herhangi bir engel olmadığına emin olunmalıdır The inline and outline fan must ensure that there are no obstructions

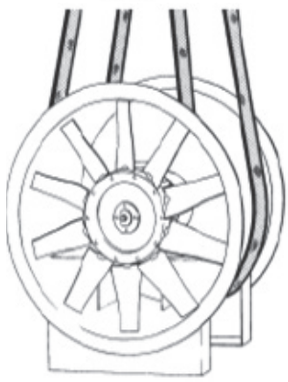
SECURITY AND SAFEGUARDS

- Fanlar tehlikeli ve yaralanmalara sebep olabilecek parçalar içerir. Her aşamada bu tehlikeler göz önünde bulundurularak gerekli önlemler alınmalıdır Fans include parts that can be dangerous and cause injury. This danger must be taken in consideration at every step
- Özel fanlar yüksek sıcaklıkta ve yıpratıcı koşullarda çalışmaya uygun olarak imal edilmiştir. Bu tür fanlar için kullanılacak diğer montaj ve elektriksel elemanların buna uygun olduğuna emin olunmalıdır Special fans are made suitable for working at high temperature and corrosive conditions. Such fans and other electrical elements to be used for mounting must be ensured that it is appropriate

STORAGE AND TRANSPORTATION

- Fanlar yaralanmalara sebep olabilecek ürünlerdir. Fan ağırlığına uygun şekilde kaldırma elemanları kullanılmalıdır Fans are products that can cause injuries. Lifting elements must be used properly to remove the fan
- Taşıma esnasında kesinlikle yükün altında durulmamalıdır. Taşıma için ürün üzerinde bulunan etiketleri inceleyin uygun kaldırma noktalarını kullanın Please do not stand under the load during transport. Examine the label on the product for transportation, use the appropriate lifting points
- Fanı orijinal ambalajında taşıyın ve montajına kadar bu şekilde saklayın. Güç kablosu, klemens kutusu, pervane, ya da esnek parçalardan çekerek cihazı hareket ettirmeyin Move the fan in its original packaging and keep in the original packaging until installation. Please do not try to move the device by pulling the flexible parts ,power cable, terminal box and impeller.
- Fanlar kapalı yerlerde muhafaza edilmelidir Fans should be kept in a closed place
- Fanlar ambalajı bozulmadan, kirden ve nemden korunarak saklanmalıdır. Uygun hava ve ortam şartlarında korozif etkilerden uzak bir ortamda depolanmalıdır Fans should be kept away from dirt and moisture in its own packaging. All fans are tested before leaving the factory
- Tüm fanlar fabrikadan çıkmadan önce test edilmiştir. Fan teslim alındığında genel kontrolü yapılmalı fanın elle döndürebildiği kontrol edilmelidir Overall control of the fan should be done when receiving the fan and must be checked for manual rotation



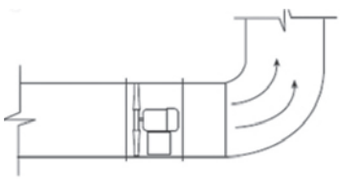


INSTALLATION

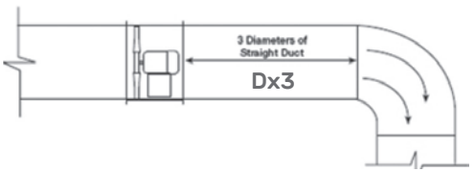
- Fanın monte edileceği yerin önce fanın kullanım amacına daha sonra servis ve bakım için uygun bir alan olduğundan emin olun Be sure to use an appropriate area where the fan is to be mounted and make sure that is a suitable site for service and maintenance of the fan
- Fanın üfleme yüksekliği kablo kanalları, su tesisatları gibi hava akımını önleyici engellerden farklı seviyede olmalıdır The height of the fan blowing air flow must be at different levels of preventive obstacles such as cable ducts and plumbing
- Fanın hava akış yönüne doğru olarak monte edildiğinden emin olun, Doğru güç ve boyutta montaj elemanları kullanın, Titreşime karşı titreşim takozu kullanın, Fan kanatlarıyla kovan arasındaki boşluğu kontrol edin. Check that the air flow direction of the fan is mounted correctly. Use mounting elements in the correct strength and size. Use vibration dampers against vibrations. Check the clearance between the impeller with fan blades

CAUTIONS IN ASSEMBLY

- Fanın üfleme tarafına kanal bağlanacaksa kanal mesafesinin en az fan çapının 3 katı kadar emiş tarafında 1 fan çapı kadar düz kanal olmasına özen gösterin If you connect a duct to the blowing side of the fan, it should be at least 3 times of length of the fans diameter



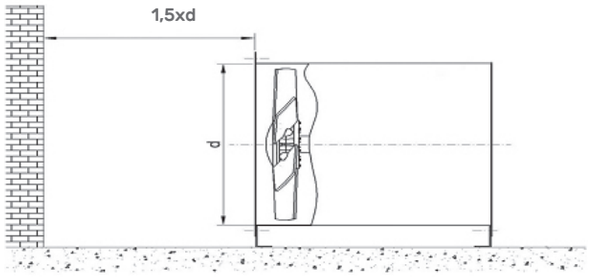
Appropriate duct design



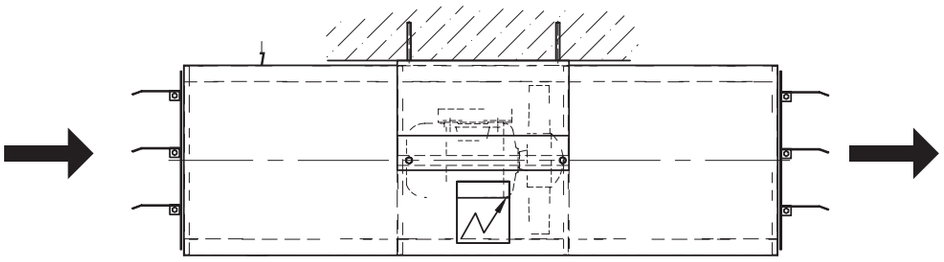
Inappropriate duct design

INSTALLATION

- Serbest emişte ve üflemede engelden uzaklık fanın çapının en az 1,5 katı kadar olmalıdır During the free suction and discharge of the fan it should be away from the obstacle at least 1.5 times of the fans diameter



- Fan bağlantısı yapılırken bağlantı yüksekliğinin 25 cm yi geçmesi durumunda titreşimi ve olası arızaları önlemek ve rijitliği sağlayabilmek için profil yardımıyla bağlantı yapınız If exceed 25 cm in height of the fan connection while connecting vibration and prevent possible malfunctions, and provide rigidity to help you make a connection profile as follows
- Cihazın hava üfleme ağzına en yakın engel 200 cm, emiş ağzına en yakın engel 200 cm ilerde olmalıdır. Jetfanın yerden yüksekliği en az 250 cm olmalıdır 200 cm Device nearest obstacle air blowing mouth to mouth suction should be 200 cm ahead of the nearest obstacle. Height above the ground when Jet Fan must be at least 250 cm



Min. 200 cm Min. 200 cm

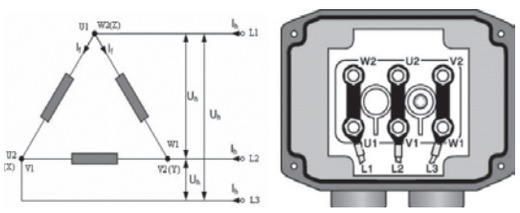
Must be high from ground 250 cm

OPERATING AND STARTING UP

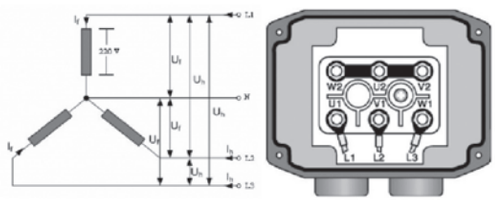
- Fanın monte edildiği yerin uygun olduğuna, montaj ekipmanlarının doğru kullanıldığına, fanın terazide olduğuna dikkat ediniz The fan is mounted where it is appropriate, correct assembly equipment is used, note that the fan is in balance
- Fan ve hücrelerin temizliğini kontrol edin Check that the fan and cells are clean
- Motor montajını kontrol edin motorun bağlantılarının sabit ve sıkı olduğuna emin olun Check the installation of the engine and make sure that motor connections are fixed and tight
- Elektrik bağlantılarının üniteyle beraber gelen şemalardaki gibi doğru olduğunu kontrol edin Check the grounding
- Elektrik devre elemanlarını kontrol edin, termik şalter, sigorta ve bunun gibi ekipmanların uygunluğunu kontrol edin, topraklamayı kontrol edin Check the electrical circuit elements, thermal switches, fuses and check the suitability of equipment like this
- Fan kasasında bulunan tüm bağlantı elemanlarının sıkılığından emin olun Make sure the tightness of all fasteners in the fan case
- Fanın serbestçe döndüğünü elinizle kontrol edin. Sürtme çarpma olup olmadığını kontrol edin Check with your hand that the impellers turn freely. Check that if there is friction or collision
- Motoru yüksek hızda ve serbest halde kontrol edin Check engine at high speed
- Motor çalışırken cihaz üzerinde ve bağlantı parçalarındaki titreşimi kontrol edin. Normal olmayan ses ve titreşimler için gerekli düzelmeleri yaptırın Check the vibration from the device while it is running to make the necessary improvements for abnormal sounds and vibrations
- Motor istenilen koşullardayken elektriksel değerleri kontrol edin ve etiket değerlerine uygun olduğuna emin olun CExamine the reasons ıf you see differences in electrical values

ELECTRICAL CONNECTIONS

- Öncelikle fan bağlantıları daima fan motor etiketinde belirtilen motor sargı tipine uygun şekilde bağlanmalıdır. Unutulmamalıdırki yanlış yapılan bağlantılar ürünün garanti dışı kalmasına sebep olacaktır First of all Always connect fan connections according to the type specified in fan coillabel. Remember, stay out of warranty for improper connections
  Aşağıda fan bağlantıları ile alakalı genel bilgiler verilmiştir You should find connection information below
- Aksiyal fanlar trifaze motorlu fanlardır. Bu fanlarda 4 KW ve üzeri üçgen bağlantılı çalıştırılırken, 4 KW altındaki güçte olanlar yıldız bağlantı ile çalıştırılırlar Axials are works with three phase motors. These fans are 4 Kw and more works with delta connection. Under 4 Kw 's are works with y-coupling
- Bu fanlarda invertörlü çalıştırma tavsiye edilir. İnvertörlü fanlar için motor etiketinde tavsiye edilen bağlantı yapılır. (400 Y-Yıldız Bağlantı / 400 ▲ - üçgen bağlantı) The fans in the inverter operation is recommended. The inverter if will not be used for over 4 KW, have to star-delta starting to be made. dahlend on board for Two-speed axial fans are starting to be prepared. (400 Y-Star connection / 400 ▲ - Delta connection)
- İnvertör kullanılmayacaksa 4 KW ve üzeri için yıldız-üçgen çalıştırma yapılmalıdır If the inverter should not be used, For 4 KW and more must work on with star-delta



Delta connection



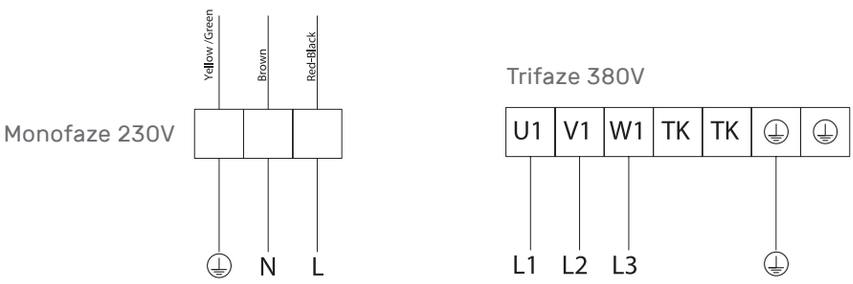
Star connection

- Çift devirli aksiyal fanlar için panoda dahlender yolverme hazırlanmaldır ve fan klemensindeki tüm köprüler sökülerek panoda hazırlanan dahlender yol vermeden gelen düşük devir ve yüksek devir uçları aşağıda yazıldığı gibi fan klemensine bağlanmalıdır Dahlend on board for Two-speed axial fans should be repared to give way and all bridges in the fan terminal board prepared removed from the road at low speed and high speed wires have to be connected as it is written below

Çift devirli fan bağlantısı Dual Speed Fan Connection

1. DEVİR (Alçak Devir) kabloları, 1. Speed (Low speed) Wires	2. DEVİR (Yüksek Devir) kabloları, 2. Speed (High Speed) Wires,
U1-V1-W1 uçlarına bağlanacak. U1-V1-W1	U2-V2-W2 uçlarına bağlanacak U2-V2-W2

- Jet fanlar çift devirli fanlardır, dolayısı ile bağlantıları yukarıda belirtildiği gibi çift devirli fan bağlantısı olarak yapılmalıdır Jet fans are two-speed fans so connection must be two-speed fan connection as above
- Çatı fanları ve kanal tipi fanlar monofaze ve trifaze motorlu olarak imal edilebilirler. Fan etiketinden veya tarafınıza gönderilen teknik çıktılardan çalışma voltajları öğrenilerek aşağıdaki bağlantılar yapılmalıdır. (230 V Monofaze - 400 V Trifaze) The roof and duct fans manufactured as single and connections and ability to work in learning the technical pages for Roof and Duct type three-phase motor. Make two-speed fan connection as above fans. (230 v MonoPhase – 400 V Three-phase)



DIAGNOSTIC AND TROUBLESHOOTING

SORUN PROBLEM	MUHTEMEL NEDEN VE ÇÖZÜMLER POSSIBLE REASON AND SOLUTION
Fan dönmüyor Fan don not rotate	Enerji beslemesini kontrol edin Check the power supply Motor bağlantılarını kontrol edin Check motor connections
Hava Debisi Çok Düşük Air flow too low	Statik basınç tasarım değerinden yüksek olabilir It may be higher than the static pressure design Fan dönüş yönünü kontrol edin Check the fan direction of rotation Fanın emiş ya da atış ağzında engel olup olmadığını kontrol edin The suction fan or obstructions in the discharge outlet Check that
Anormal Ses Anormal sound	Motor yataklarını kontrol edin Check motor bearings Fanı engelleyen ya da çarpan bir parça olup olmadığını kontrol edin Check that the fan is a part that prevents or multiplier Fanın balansını kontrol edin Check the balance of the fan Fan kanatlarının düzgünlüğünü kontrol edin Check the smoothness of fan blades
Titreşim Vibration	Fanın çalışma noktasını kontrol edin Check the operating point of the fan Karşı basıncın tasarım değerinde olduğunu kontrol edin Check that the pressure against the value of design Kanatların temizliğini kontrol edin Check the cleanliness of the wings Montaj ve bağlantı parçalarını kontrol edin Check the assembly and fittings
Motor Fazla Akım Çekiyor Motor takes high current	Statik basınç tasarım basıncından yüksek olabilir Static pressure can be higher than the design pressure Uygun motor bağlantısı yapılmamış olabilir Fans can reverse the direction of rotation Fan hızı tasarım hızından yüksek olabilir Fan speed can be higher than the design
Hava Debisi Çok Yüksek Air flow to high	Statik basınç tasarım değerinden düşük olabilir The value of static pressure may be lower design Fan hızı tasarım hızından yüksek olabilir Fan speed can be higher than the design speed

SERVICE AND MAINTENANCE

- Fanlar yılda en az bir kez kontrol edilmelidir. Fanın kullanıldığı yerdeki kir ve toz durumuna göre bu sayı arttırılmalıdır Fans must be checked at least once a year.This number should be increased depending on the pollution of the environment where the fan is located

Bakımda yapılacaklar; Things to do in maintenance;

- Fan ve motorun genel durumunu kontrol edin Check the general condition of the fan and motor
- Fan çarkını ve gövdeyi kontrol edin kir toz ve diğer tüm partikülleri temizleyin Check the fan wheel and body of the fan, clean dirt, dust and other particles
- Motoru gözle kontrol edin temizliğini yapın Perform a visual check of the engine cleanliness
- Fan kanatlarını kontrol edin ve temizleyin Check and clean the fan blades
- Koruma teli varsa sağlamlığını ve temizliğini kontrol edin If there is a protection cage check the solidity and cleaning
- Fan kanatlarıyla çark arasındaki boşlukları kontrol edin fanı elle çevirerek dönüşünü kontrol edin Check the gap between the rotating fan wheel with fan blades manually check the rotation
- Fan sabitleme elemanlarını kontrol edin gerekiyorsa sıkın Check fastening of fan and tighten if necessary
- Motor bağlantı elemanlarını kontrol edin gerekiyorsa sıkın Check Engine and tighten the fittings if necessary
- Fan motor bağlantısını kontrol edin Check the fan and motor connection
- Titreşim olup olmadığını kontrol edin Check whether vibrations
- Titreşim takozlarını kontrol edin Check the anti-vibration mounts
- Motor voltaj ve akım değerlerini kontrol edin Check the motor voltage and current values
- Elektrik bağlantılarını kontrol edin gerekiyorsa sıkın Check electrical connections tighten if necessary

WARRANTY

- Cihazlar imalat hatalarına karşı 2 yıl garanti altındadır. Voltaj dalgalanmalarından kaynaklı motor yanmalarıyla, dış etkenlerle oluşan hasarlar garanti kapsamında değildir The devices are under 2 years warranty against manufacturing defects. With the combustion engine sourced from voltage fluctuations, the warranty does not cover damage caused by external factors

⚠ Garanti Kapsamına Girmeyen diğer durumlar; Cases which are not covered under warranty;

- Montaj, kullanma ve kablolamaların kılavuz ve cihaz üzerindeki etiketlere göre yapılmaması Mounting and wiring are carried out according to the label on the device and the user guide
- Gerekli bakımların yapılmaması If not to make the necessary care
- Cihazın uygun şartlarda kullanılmaması Does not used in the device suitable conditions
- Cihazın aşırı toz veya diğer yıpratıcı etkenlere maruz kalması Exposure to excessive dust or other debilitating factor devices
- Arıza ve aşırı titreşim gibi durumlarda cihaza zamanında müdahale edilmemesi Failure and excessive vibration device such cases, if not treated in time
- Hatalı yapılan bağlantılar sonucu oluşan arızalar Improrer conection errors that occur as a result
- Panolarda Termik Manyetik Şalter ve Motor Koruma Şalterleri kullanılmaması sonucu oluşan hasarlarda Boards in thermal-magnetic circuit brekars and motor protection switches used the resulting damages
- Fanın bulunduğu ortam dolayısı ile nemlenip arızalanması durumunda The fan is located in the event of failure because of the moisturizing and environment
- 3 fazlı cihazlarda fazlardan birinin veya ikisinin kesilmesi sonucu oluşan motor yanmaları gibi durumlar garanti dışı durumlardır Such as three-phase devices in one phase or two cut as a result of engine combustion occurring cases are not covered by the warranty

www.cvsair.com.tr

Certificates

Air Movement and Control Association International, Inc.

Certifies that

CVS Havalandirma Sistemleri San. Ve Tic. A.

Having satisfied the membership requirements, has been granted full membership in the Air Movement and Control Association International, Inc.

Member Since May 1, 2016

AMCA International President

Executive Director

AMCA

01 Aralık 2017 010702

İSTANBUL SANAYİ ODASI

YERLİ MALI BELGESİ

TÜRKİYE ODALAR VE BORSALAR BİRLİĞİ TOBB

Belgenin Veriliş Tarihi : 01.12.2017 Belgenin Geçerlilik Tarihi : 01.12.2018 Belge No : 2017108323955

Üretici Ünvanı: CVS HAVALANDIRMA SİSTEMLERİ SANAYİ VE TİCARET ANONİM ŞİRKETİ

İşyeri Adresi: Cumhuriyet Mah. Kartal Cad. No:101/1 KARTAL/İSTANBUL

Üreticinin Vergi Kimlik No: 2150252533 TC Kimlik No: MERSİS No : 2160593761000011

Telefon:	216-4171248	E-posta:	muhasebe@cvsair.com.tr
Faks:	216-4173448	Web Adresi:	www.cvsair.com.tr
Ticaret Sicil No:	708003	Üye Sicil No:	43083

Ürün Adı: Aksiyal fan (duman, jet, çatı, basınçlandırma vb.)
Ürün Kodu (PRODCOM/GTİP): 28.25.20.30.00 /
Teknik Özellikleri(Marka Adı, Modeli, Seri Numarası, Cinsi):

İşbu Yerli Malı Belgesi yukarıda tanımı verilen ürünlerden aksiyal fan (jet) CVS-AJ-400 F300 için geçerlidir.
MARKA ADI: CVSAIR

Kapasite Raporunun Tarih :02.10.2017 No : 31015 Geçerlilik Süresi :29.09.2019

Sanayi Sicil Belgesinin Tarih : 04.08.2014 No : 620874

Yerli Katkı Oranı : % 98

Ürünün Teknolojik Düzeyi (düşük/orta-düşük/orta-yüksek/yüksek)(Eurostat) : orta-yüksek

Diğer bilgi ve belgeler :

İşbu belge Bilim, Sanayi ve Teknoloji Bakanlığı'nın 13/09/2014 tarih ve 29118 sayılı Resmi Gazetede yayımlanan "Yerli Malı Tebliği (SGM 2014/35) "ne istinaden ve TOBB tarafından hazırlanan "Yerli Malı Belgesinin Düzenlenmesi Uygulama Esaslarına" göre 01.12.2017 tarihinde düzenlenmiştir. Belgenin geçerlilik süresi veriliş tarihinden itibaren bir yıl geçerlidir.

Düzenleyen Oda/Borsa
İSTANBUL SANAYİ ODASI

Onaylayan
Mehmet ÇAVDAR
Şube Müdürü

LOCAL PRODUCTION CERTIFICATE

bsi.

By Royal Charter

Kitemark™ Certificate

This is to certify that:

CVS Havalandirma Sistemleri
San. Ve Tic. A.S
Cumhuriyet Mah.Kartal
Cad.No:101/1 Kartal
Istanbul
34876
Turkey

Holds Certificate Number: KM 661076

In respect of:

BS EN 12101-3
Powered smoke and heat exhaust ventilators

This issues the right and licence to use the Kitemark in accordance with the Kitemark Terms and Conditions governing the use of the Kitemark, as may be updated from time to time by BSI Assurance UK Ltd (the "Conditions"). All defined terms in this Certificate shall have the same meaning as in the Conditions.

The use of the Kitemark is authorized in respect of the Product(s) detailed on this Certificate provided at or from the above address.

For and on behalf of BSI: Gary Fenton, Global Product Certification Director

First Issued: 16/11/2016 Latest Issue: 16/11/2016

UKAS PRODUCT CERTIFICATION 003

Page: 1 of 3

...making excellence a habit.™

This certificate has been issued by and remains the property of BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, United Kingdom and should be returned immediately upon request.
To check its validity telephone +44 (0) 345 080 9000. An electronic certificate can be authenticated online.

BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.
A member of BSI Group of Companies.

BSI F300 KiteMark

EFECTIS France
Espace Technologique
Bâtiment Apollo
Route de l'Orme des Merisiers
F-91193 Saint-Aubin
www.efectis.com

CERTIFICAT DE CONSTANCE DES PERFORMANCES
CERTIFICATE OF CONSTANCY OF PERFORMANCE

CERTIFICAT DE CONSTANCE DES PERFORMANCES — N° 1812-CPR-1199

CERTIFICATE OF CONSTANCY OF PERFORMANCE

Conformément au Règlement 305/2011/EU du Parlement européen et du Conseil du 9 mars 2011 (Règlement Produits de Construction – RPC), il a été établi que le produit de construction :
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), it was established that the construction product:

Produit *Product*	**Ventilateur extracteur de fumées et chaleur** **Powered smoke and heat control ventilator**
Référence du produit *Reference of the product*	**RADIAL JET FAN**
mis sur le marché par ou pour *placed on the market by or for*	**CVS HAVALANDIRMA SİSTEMLERİ SAN. VE TİC. A.Ş.** **Cumhuriyet Mahallesi Kartal Cad. N°:101/1** **Kartal - ISTANBUL Turkey**
et produit dans l'usine de fabrication de *and produced in the manufacturing plant located in*	**Kartal - ISTANBUL Turkey**

est soumis par le fabricant à un contrôle de production en usine, et que EFECTIS France, organisme de certification notifié, a réalisé les essais/calculs de type initiaux relatifs aux caractéristiques concernées du produit, l'inspection initiale de l'usine et du contrôle de la production en usine, et réalise la surveillance continue, l'évaluation et l'acceptation du contrôle de la production en usine.
is submitted by the manufacturer to a factory production control , and that the notified certification body EFECTIS France, has performed the initial type-testing for the relevant characteristics of the product, the initial inspection of the factory and of the factory production control and performs the continuous surveillance, assessment and approval of factory production control.

Ce certificat atteste que toutes les dispositions concernant l'évaluation et la vérification de la constance des performances et les performances décrites dans l'annexe ZA de la norme de référence **EN 12101-3:2015 pour le système 1** sont appliquées, et que le ou les produits satisfont toutes les exigences prescrites.
*This certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performance, described in Annex ZA of the standard **EN 12101-3**:2015 under system 1 are applied, and that the product(s) fulfill(s) all the prescribed requirements set out above.*

Ce certificat, délivré pour la première fois le **13 juillet 2017**, demeure valide tant que les exigences relatives aux méthodes d'essai et au contrôle de production en usine incluses dans la norme harmonisée et utilisées pour évaluer les caractéristiques déclarées restent inchangées, et que le produit et les conditions de fabrication dans l'usine ne sont pas modifiés de manière significative.
This certificate, first issued on July 13th, 2017, remains 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.

Ce certificat permet au fabricant, ses mandataires ou ses distributeurs, établis dans l'Espace Economique Européen, d'apposer le marquage CE.
This certificate allows the manufacturer, its mandatories or its distributors, stated in the European Economic Area, to affix the CE marking.

Certificat établi à Saint-Aubin le / *Certificate established at Saint-Aubin on :* **13/07/2017.**

Directeur technique Certification / *Technical Certification Director*

cofrac ACCREDITATION N° 1-0540 PORTEE DISPONIBLE SUR WWW.COFRAC.FR

Organisme notifié
Notified body
n° 1812

SASU au capital de 1 512 170 € - SIRET 490 550 712 00031

AXIAL SMOKE EXHAUST F300 // EN 12101-3

EFECTIS France
Espace Technologique
Bâtiment Apollo
Route de l'Orme des Merisiers
F-91193 Saint-Aubin
www.efectis.com

CERTIFICAT DE CONSTANCE DES PERFORMANCES
CERTIFICATE OF CONSTANCY OF PERFORMANCE

CERTIFICAT DE CONSTANCE DES PERFORMANCES — N° 1812-CPR-1200

CERTIFICATE OF CONSTANCY OF PERFORMANCE

Conformément au Règlement 305/2011/EU du Parlement européen et du Conseil du 9 mars 2011 (Règlement Produits de Construction – RPC), il a été établi que le produit de construction :
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), it was established that the construction product:

Produit *Product*	**Ventilateur extracteur de fumées et chaleur** **Powered smoke and heat control ventilator**
Référence du produit *Reference of the product*	**AXIAL SMOKE EXHAUST FAN**
mis sur le marché par ou pour *placed on the market by or for*	**CVS HAVALANDIRMA San. VE TIC A.S.** **Cumhuriyet Mahallesi Kartal Cad. N°:101/1** **Kartal - ISTANBUL** **Turkey**
et produit dans l'usine de fabrication de *and produced in the manufacturing plant located in*	**Kartal - ISTANBUL Turkey**

est soumis par le fabricant à un contrôle de production en usine, et que EFECTIS France, organisme de certification notifié, a réalisé les essais/calculs de type initiaux relatifs aux caractéristiques concernées du produit, l'inspection initiale de l'usine et du contrôle de la production en usine, et réalise la surveillance continue, l'évaluation et l'acceptation du contrôle de la production en usine.
is submitted by the manufacturer to a factory production control , and that the notified certification body EFECTIS France, has performed the initial type-testing for the relevant characteristics of the product, the initial inspection of the factory and of the factory production control and performs the continuous surveillance, assessment and approval of factory production control.

Ce certificat atteste que toutes les dispositions concernant l'évaluation et la vérification de la constance des performances et les performances décrites dans l'annexe ZA de la norme de référence **EN 12101-3:2015 pour le système 1** sont appliquées, et que le ou les produits satisfont toutes les exigences prescrites.
*This certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performance, described in Annex ZA of the standard **EN 12101-3**:2015 under system 1 are applied, and that the product(s) fulfill(s) all the prescribed requirements set out above.*

Ce certificat, délivré pour la première fois le **13 juillet 2017**, demeure valide tant que les exigences relatives aux méthodes d'essai et au contrôle de production en usine incluses dans la norme harmonisée et utilisées pour évaluer les caractéristiques déclarées restent inchangées, et que le produit et les conditions de fabrication dans l'usine ne sont pas modifiés de manière significative.
This certificate, first issued on July 13th, 2017, remains 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.

Ce certificat permet au fabricant, ses mandataires ou ses distributeurs, établis dans l'Espace Economique Européen, d'apposer le marquage CE.
This certificate allows the manufacturer, its mandatories or its distributors, stated in the European Economic Area, to affix the CE marking.

Certificat établi à Saint-Aubin le / *Certificate established at Saint-Aubin on :* **13/07/2017.**

Directeur technique Certification / *Technical Certification Director*

cofrac ACCREDITATION N° 1-0540 PORTEE DISPONIBLE SUR WWW.COFRAC.FR

Organisme notifié
Notified body
n° 1812

SASU au capital de 1 512 170 € - SIRET 490 550 712 00031

AXIAL SMOKE EXHAUST F400 // EN 12101-3

EFECTIS France
Espace Technologique
Bâtiment Apollo
Route de l'Orme des Merisiers
F-91193 Saint-Aubin
www.efectis.com

CERTIFICAT DE CONSTANCE DES PERFORMANCES
CERTIFICATE OF CONSTANCY OF PERFORMANCE

CERTIFICAT DE CONSTANCE DES PERFORMANCES — N° 1812-CPR-1321
CERTIFICATE OF CONSTANCY OF PERFORMANCE

Conformément au Règlement 305/2011/EU du Parlement européen et du Conseil du 9 mars 2011 (Règlement Produits de Construction – RPC), il a été établi que le produit de construction :
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), it was established that the construction product:

Produit *Product*	**VENTILATEURS EXTRACTEURS DE FUMÉES ET CHALEUR** ***HEAT AND SMOKE EXHAUST VENTILATORS***
Référence du produit *Reference of the product*	**Axial Smoke Exhaust Fan F400**
mis sur le marché par ou pour *placed on the market by or for*	**CVS HAVALANDIRMA SİSTEMLERİ SAN VE TİC AŞ** **Cumhuriyet Mah. Kartal Cad. No:101/1 Kartal** **İSTANBUL - Turkey**
et produit dans l'usine de fabrication de *and produced in the manufacturing plant located in*	**Istanbul - Turkey**

est soumis par le fabricant à un contrôle de production en usine, et que EFECTIS France, organisme de certification notifié, a réalisé les essais/calculs de type initiaux relatifs aux caractéristiques concernées du produit, l'inspection initiale de l'usine et du contrôle de la production en usine, et réalise la surveillance continue, l'évaluation et l'acceptation du contrôle de la production en usine.
is submitted by the manufacturer to a factory production control , and that the notified certification body EFECTIS France, has performed the initial type-testing for the relevant characteristics of the product, the initial inspection of the factory and of the factory production control and performs the continuous surveillance, assessment and approval of factory production control.

Ce certificat atteste que toutes les dispositions concernant l'évaluation et la vérification de la constance des performances et les performances décrites dans l'annexe ZA de la norme de référence **EN 12101-3 : 2015** pour le système 1 sont appliquées, et que le ou les produits satisfont toutes les exigences prescrites.
*This certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performance, described in Annex ZA of the standard **EN 12101-3 : 2015** under system 1 are applied, and that the product(s) fulfill(s) all the prescribed requirements set out above.*

Ce certificat, délivré pour la première fois le **12 janvier 2018**, demeure valide tant que les exigences relatives aux méthodes d'essai et au contrôle de production en usine incluses dans la norme harmonisée et utilisées pour évaluer les caractéristiques déclarées restent inchangées, et que le produit et les conditions de fabrication dans l'usine ne sont pas modifiés de manière significative.
*This certificate, first issued on **January 12th 2018**, remains 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.*

Ce certificat permet au fabricant, ses mandataires ou ses distributeurs, établis dans l'Espace Economique Européen, d'apposer le marquage CE.
This certificate allows the manufacturer, its mandatories or its distributors, stated in the European Economic Area, to affix the CE marking.

Certificat établi à Saint-Aubin le / *Certificate established at Saint-Aubin on :* **12/01/2018.**

Par délégation du Directeur technique Certification / *By delegation of the technical Certification director,*

Yannick LE TALLEC
Directrice Certification / *Certification director*

cofrac
ACCRÉDITATION N° 5-0546 PORTÉE DISPONIBLE SUR WWW.COFRAC.FR

Organisme notifié
Notified body
n° 1812

SASU au capital de 1 512 170 € - SIRET 490 550 712 00031

EFECTIS France
Espace Technologique
Bâtiment Apollo
Route de l'Orme des Merisiers
F-91193 Saint-Aubin
www.efectis.com

CERTIFICAT DE CONSTANCE DES PERFORMANCES
CERTIFICATE OF CONSTANCY OF PERFORMANCE

CERTIFICAT DE CONSTANCE DES PERFORMANCES
CERTIFICATE OF CONSTANCY OF PERFORMANCE

N° 1812-CPR-1322

Conformément au Règlement 305/2011/EU du Parlement européen et du Conseil du 9 mars 2011 (Règlement Produits de Construction – RPC), il a été établi que le produit de construction :
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), it was established that the construction product:

Produit *Product*	**VENTILATEURS EXTRACTEURS DE FUMÉES ET CHALEUR** ***HEAT AND SMOKE EXHAUST VENTILATORS***
Référence du produit *Reference of the product*	**Axial Jet Fan AJ-TR400-F300**
mis sur le marché par ou pour *placed on the market by or for*	**CVS HAVALANDIRMA SİSTEMLERİ SAN VE TİC AŞ** **Cumhuriyet Mah. Kartal Cad. No:101/1 Kartal** **İSTANBUL - Turkey**
et produit dans l'usine de fabrication de *and produced in the manufacturing plant located in*	**Istanbul - Turkey**

est soumis par le fabricant à un contrôle de production en usine, et que EFECTIS France, organisme de certification notifié, a réalisé les essais/calculs de type initiaux relatifs aux caractéristiques concernées du produit, l'inspection initiale de l'usine et du contrôle de la production en usine, et réalise la surveillance continue, l'évaluation et l'acceptation du contrôle de la production en usine.
is submitted by the manufacturer to a factory production control , and that the notified certification body EFECTIS France, has performed the initial type-testing for the relevant characteristics of the product, the initial inspection of the factory and of the factory production control and performs the continuous surveillance, assessment and approval of factory production control.

Ce certificat atteste que toutes les dispositions concernant l'évaluation et la vérification de la constance des performances et les performances décrites dans l'annexe ZA de la norme de référence **EN 12101-3 : 2015** pour le système 1 sont appliquées, et que le ou les produits satisfont toutes les exigences prescrites.
*This certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performance, described in Annex ZA of the standard **EN 12101-3 : 2015** under system 1 are applied, and that the product(s) fulfill(s) all the prescribed requirements set out above.*

Ce certificat, délivré pour la première fois **le 19 janvier 2018,** demeure valide tant que les exigences relatives aux méthodes d'essai et au contrôle de production en usine incluses dans la norme harmonisée et utilisées pour évaluer les caractéristiques déclarées restent inchangées, et que le produit et les conditions de fabrication dans l'usine ne sont pas modifiés de manière significative.
*This certificate, first issued on **January 19th 2018**, remains 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.*

Ce certificat permet au fabricant, ses mandataires ou ses distributeurs, établis dans l'Espace Economique Européen, d'apposer le marquage CE.
This certificate allows the manufacturer, its mandatories or its distributors, stated in the European Economic Area, to affix the CE marking.

Certificat établi à Saint-Aubin le / *Certificate established at Saint-Aubin on :* **19/01/2018.**

Par délégation du Directeur technique Certification / *By delegation of the technical Certification director,*

Yannick LE TALLEC
Directrice Certification / *Certification director*

cofrac
ACCREDITATION
N°5-0146
PORTEE DISPONIBLE SUR
WWW.COFRAC.FR

Organisme notifié
Notified body
n° 1812

SASU au capital de 1 512 170 € - SIRET 490 550 712 00031

RADIAL JET FAN // EN 12101-3

ЕВРАЗИЙСКИЙ ЭКОНОМИЧЕСКИЙ СОЮЗ
ДЕКЛАРАЦИЯ О СООТВЕТСТВИИ

Заявитель Общество с ограниченной ответственностью "Система".
Основной государственный регистрационный номер: 1135032004722.
Место нахождения: 143002, Российская Федерация, Московская область, Одинцовский район, город Одинцово, улица Молодежная, дом 46, офис 318
Телефон: +74992577631, адрес электронной почты: zapros@cdcrus.ru
в лице Генерального директора Соколова Артема Лериевича, действующего на основании Устава
заявляет, что
Вентиляторы промышленные осевые, круговой встроенный вентилятор (CIRCULAR INLINE FAN), вентилятор для прямоугольных каналов (RECTANGULAR DUCT FAN), осевой вентилятор (AXIAL FAN), струйный вентилятор (JETFAN), горизонтальный крышный вентилятор (HORIZONTAL ROOF FAN), вертикальный крышный вентилятор (VERTICAL ROOF FAN), прямоточный вентилятор (PLUG BOX FAN), бытовой вентилятор (DOMESTIC FAN), запасные части и принадлежности для вентиляторов (FAN PARTS&ACCESSORIES), промышленный вентилятор (Industrial fans), марка: "CVSAIR"
Продукция изготовлена в соответствии с директивами 2014/30/EU Европейского парламента и Совета Европы от 26 февраля 2014 года "О гармонизации законодательств Государств-членов по электромагнитной совместимости", 2014/35/EU Европейского парламента и Совета Европы от 26 февраля 2014 года "О гармонизации законодательств Государств-членов в отношении допуска на рынок низковольтного электрооборудования", 2006/42/EC (Machinery Directive) о безопасности машин и оборудования Европейского парламента и Совета Европы от 17 мая 2006 года
изготовитель "CVS HAVALANDIRMA SISTEMLERI SAN. VE TIC. A.S.".
Место нахождения: ТУРЦИЯ, ORDEKCIOGLU BINASI, Orta Mahalle Tevfik İleri Caddesi No:32/1 Pendik – istanbul. Филиал изготовителя "CVS HAVALANDIRMA SISTEMLERI SAN. VE TIC. A.S.". Место нахождения: ТУРЦИЯ, FATIH MAH. 103 SOK. NO: 48/1 BAYIRKOY BILECIK
код ТН ВЭД ЕАЭС 8414 59
Серийный выпуск
соответствует требованиям
Технического регламента Таможенного союза ТР ТС 004/2011 "О безопасности низковольтного оборудования"; Технического регламента Таможенного союза ТР ТС 010/2011 "О безопасности машин и оборудования"; Технического регламента Таможенного союза ТР ТС 020/2011 "Электромагнитная совместимость технических средств"
Декларация о соответствии принята на основании
протоколов испытаний №№ 710-03-03/2018, 711-03-03/2018, 712-03-03/2018 от 26.03.2018 года, Испытательной лаборатории "Стандартконтроль" Общества с ограниченной ответственностью "Стандарт-Групп", регистрационный номер СДС-СМ.RU.3791.ИЛ02. Обоснования безопасности, комплекта эксплуатационной документации
Схема декларирования: 1д
Дополнительная информация
Перечень стандартов, в результате применения которых обеспечивается соблюдение требований технического регламента: ГОСТ 12.2.007.0-75 "Система стандартов безопасности труда. Изделия электротехнические. Общие требования безопасности"; ГОСТ 30804.6.2-2013 (IEC 61000-6-2:2005), (раздел 8) "Совместимость технических средств электромагнитная. Устойчивость к электромагнитным помехам технических средств, применяемых в промышленных зонах. Требования и методы испытаний"; ГОСТ 30804.6.4-2013 (IEC 61000-6-4:2006), (раздел 7) "Совместимость технических средств электромагнитная. Электромагнитные помехи от технических средств, применяемых в промышленных зонах. Нормы и методы испытаний"; ГОСТ МЭК 60335-2-41-2009, (разделы 4 и 7) "Бытовые и аналогичные электрические приборы. Безопасность. Часть 2-41. Дополнительные требования к насосам". Условия хранения продукции в соответствии с ГОСТ 15150-69. Срок хранения (службы, годности) указан в прилагаемой к продукции товаросопроводительной и/или эксплуатационной документации

Декларация о соответствии действительна с даты регистрации по 02.04.2023 **включительно.**

Соколов Артем Лериевич
(подпись) (инициалы и фамилия руководителя организации-заявителя или физического лица, зарегистрированного в качестве индивидуального предпринимателя)

М.П.

Сведения о регистрации декларации о соответствии:

Регистрационный номер декларации о соответствии: ЕАЭС № RU Д-TR.АЖ26.В.02151
Дата регистрации декларации о соответствии 03.04.2018

EAC CERTIFICATE

وزارة الداخليـــة
الادارة العامه للدفاع المدني
إدارة الوقاية

تاريخ الطباعة: 2017-07-26
وقت الطباعة: AM 11:46
رقـم الطلب: PAC17009651

شهـــــادة عدم ممانعة

نوع الشهادة : إعتماد منتج

بيانات المنشأة

الاسم التجاري: سيف قطر دكت فاب لاعمال الحداده والالمنيوم

رقم السجل التجاري: 64863 **رقم الرخصة التجارية:** 85086

رقم قيد المنشأة: 13-8619-01 **رقم الهاتف:**

البريد الإلكتروني:

التصنيف : Ventilation systems

إسم المنتج : Smoke and heat Exhaust, units, components and equipment / Pressurization Fans

تفاصيل الشهادة

تم مراجعة الطلب المقدم واتضح بأنه لا مانع من اعتماد المنتج /المنتجات الموضحه فى التقرير الفنى المرفق بناء على اعتماده من قبل الهيئه المختبرية الموضحه فى التقرر الفني المرفق .

ملاحظات :

-يجب على الشركه الالتزام والعمل بما جاء في اشتراطات قسم أنظمة السلامه التي تم الاطلاع والموافقة عليها من خلال الموقع .
- يجب ان يقوم بتركيب هذا المنتج من قبل مهندسين وفنيين معتمدين من الإدارة العامة للدفاع المدني.
- يجب ان يحمل المنتج العلامة التجارية للهيئه المختبرية المعتمدة والموضحه في التقرير الفني المرفق .

تاريخ الاعتماد : 2017-07-26 **تاريخ الإنتهاء :** 2019-07-26

ع/

مدير إدارة الوقايـــة
الإدارة العامة للدفاع المدني

QATAR CIVIL Def. APPROVALL

المديرية العامة للدفاع المدني

إدارة الوقاية والحماية الذاتية

الرقم : و/٤٧/٦١/١٠٢٠

التاريخ : / / ١٤٣٩ هـ

الموافق : ١٦/٧/٢٠١٧م

السادة/ شركة الأداء لتجارة الأنظمة الهندسية

الموضـــــوع : اعتمـــــاد مـــــراوح

إشارة إلى الطلب رقم (١١٧٣) تاريخ (٢٠١٧/١١/١٦)

١. لا مانع لدينا من الموافقة على اعتماد المراوح الواردة في الطلب الإشارة أعلاه و المصنعة قبل شركة (CVS HAVALANDIRMA SISTEMLERI SAN.VEC TIC) كونها حاصلة على اعتماد من قبل مختبر (EFECTIS) المعتمد من قبل مؤسسة المواصفات والمقاييس الاردنية شريطة:

- عدم التوريد لأي مشروع إلا بعد أخذ الموافقة الخطية من الدفاع المدني.
- أن تحمل جميع المعدات علامة المختبر الفاحص والموديل واسم الشركة الصانعة.
- في حال استيراد هذه المواد أن تحمل الفاتورة اسم الشركة الصانعة ووصف المعدة ورقم الموديل لكل مادة.
- عدم التخليص على محتويات البيان الجمركي عند استيراد هذه المواد إلا بعد أخذ الموافقة الخطية من المديرية العامة للدفاع المدني.

٢. لإجراءاتكم لطفًا.

واقبلوا الاحترام

العميد

مـدير إدارة الوقايـة والحمايـة الذاتيـة

محمـــد ياســـين الصـــبيحي

نسخة إلى :

- قسم الاعتماد ملف رقم (٤٣٥ ش).

THE HASHEMITEKINGDOM OF JORDAN - AMMAN

TEL. 5661111– FAX 5667717

ISO 9001 REGISTERED

JORDAN CIVIL DEFENCE APPROVAL

МІНІСТЕРСТВО ЕКОНОМІЧНОГО РОЗВИТКУ І ТОРГІВЛІ УКРАЇНИ
ДЕРЖАВНА СИСТЕМА СЕРТИФІКАЦІЇ УкрСЕПРО

Серія ВГ

СЕРТИФІКАТ ВІДПОВІДНОСТІ

Зареєстровано в Реєстрі за № UA1.016.0017552-15
Зарегистрирован в Реестре

Термін дії з 08 квітня 2015 до 07 квітня 2020
Срок действия с

Продукція Вентилятор радіальний димовидалення (Radial Jet fan) — 8414 59 20 (код УКТ ЗЕД, ТН ЗЕД)
Продукция — (код ДКПП, ОКП)

Відповідає вимогам пп. 7.8, 7.9 ДБН В.1.1-7-2002 'Захист від пожежі. Пожежна безпека об'єктів будівництва', пп. 5.9, 5.11 СНиП 2.04.05-91 'Отопление, вентиляция и кондиционирование' щодо межі вогнестійкості 120 хвилин за температури димових газів 300 ^{0} С
Соответствует требованиям

Виробник продукції Фірма «CVS Havalandırma Sistemleri San. ve Tic. AŞ.» (Туреччина), адреса: Soğanlık Yeni Mah. Atatürk Str. Else Apt. No: 6 Floor: 8 Kartal/Istanbul, адреса виробництва: Yakacik Cumhuriyet MAH.E5 YAN YOL Kartepe Sok.No.101 Kartal/Istanbul
Изготовитель продукции

Сертифікат видано Фірма «CVS Havalandırma Sistemleri San. ve Tic. AŞ.» (Туреччина), адреса: Soğanlık Yeni Mah. Atatürk Str. Else Apt. No: 6 Floor: 8 Kartal/Istanbul
Сертификат выдан

Додаткова інформація Вентилятор радіальний димовидалення (Radial Jet fan), що виробляється серійно з 08.04.2015 до 07.04.2020. Здійснюється технічний нагляд за виробництвом сертифікованої продукції 4 (чотири) рази протягом терміну дії сертифіката відповідності. Маркування продукції здійснюється знаком відповідності згідно з ДСТУ 2296-93
Дополнительная информация

Сертифікат видано органом з сертифікації Державний центр сертифікації ДСНС України, 01024, м. Київ, вул. Круглоуніверситетська, 20/1 (свідоцтво про уповноваження № UA.PN.016 від 09.12.2013), т.(044) 461-91-31, web-site:dcs.gov.ua
Сертификат выдан органом по сертификации

На підставі Протокол сертифікаційних випробувань від 17.03.2015 № 2/СВД-15 ВЦ ТОВ 'ТЕСТ' (атестат акредитації від 11.04.2011 № 2Н365, дійсний до 10.04.2019). Звіт з перевірки виробництва сертифікованої продукції та оцінки системи управління якістю на відповідність вимогам ДСТУ ISO 9001:2009 від 13.02.2015 № 295 Державного центру сертифікації ДСНС України
На основании

№ 111307

Керівник органу з сертифікації А.В. Кучмійов
Руководитель органа по сертификации
підпис — ініціали, прізвище

М.П.

Чинність сертифіката відповідності можна перевірити в Реєстрі системи УкрСЕПРО за тел. (044) 537-35-76

ТОВ "Укрспецполіграфія", зам. 13-277, 2013 р., ІІІ кв.

UKRAINA SES F300

TURKISH STANDARDS INSTITUTION
معهد المواصفات التركي
HEAD OF INSPECTION AND SURVEILLANCE CENTER
رئيس قسم المراقبة والتفتيش

CERTIFICATE OF CONFORMITY FOR COMMODITIES AND PRODUCTS TO BE EXPORTED TO THE KINGDOM OF SAUDI ARABIA

شهادة المطابقة للسلع والمنتجات التي يتم تصديرها إلى المملكة العربية السعودية

We testify that we are authorized by Republic of Turkey Ministry of Economy as an International Surveillance and Inspection Body (Certificate no: 161 date: 16.06.2009)

ونحن نشهد اننا حاصلون على ترخيص من جمهورية تركيا وزارة الاقتصاد كجهة دولية للمراقبة والتفتيش

We have verified by a result of an inspection that the goods described below are in compliance with the approved technical regulations and/or standards in the Kingdom of Saudi Arabia.

ولقد اثبتنا بنتيجة عملية التفتيش أن السلع المبينة أدناه مطابقة للوائح الفنية المعتمدة و / أو المواصفات في المملكة العربية السعودية.

Certificate No: SASO.2015/B00413 شهادة رقم
Date Of Issue: 07/09/2015 تاريخ الإصدار
Date Of Inspection: 04/19/2015 التفتيش تاريخ
Relevant Report No: SASO.2015/R00366 الصلة ذات غير التقرير
Page: 1/1 صفحة

Name and Address of Manufacturer / اسم وعنوان المصنع	Country of Origin / بلد المنشأ
CVS HAVALANDIRMA SIS. SAN. ve TIC. A.Ş. – Cumhuriyet Mah. Kartal Cad. No:101/1 KARTAL - ISTANBUL	TURKEY
Name and Address of the Exporter / اسم وعنوان المصدر	**Name and Address of the Importer/ اسم وعنوان المستورد**
CVS HAVALANDIRMA SIS. SAN. ve TIC. A.Ş. – Cumhuriyet Mah. Kartal Cad. No:101/1 KARTAL - ISTANBUL	AL-BADIL- AL-AKHAR, TRADING ESTABLISHMENT JEDDAH KINGDOM OF SAUDI ARABIA
Port of Shipment / ميناء الشحن	**Port of Arrival/ ميناء الوصول**
AMBARLI	JEDDAH
Means of Shipment/ وسائل الشحن	**Export Invoice No & Date / رقم وتاريخ فاتورة التصدير**
SHIP	151307-C & 13/07/2015

Item no رقم البند	Item name اسم البند	Quantity كمية	Packing التعليب	Technical Regulation and/or Standard Ref. No./ اللائحة الفنية و / أو المواصفة المرجعية. رقم /
1	Axial Fresh Air Fan Ø1000 (Includes Counter flange-connection feet)	3 PCS		EN 60204-1:2011 EN 60034-1

07/09/2015
Necat ÇELİKAL
MANAGER OF INTERNATIONAL SURVEILLANCE DEPARTMENT

NOTE: Certificate is valid only for its contents (For only 1 type(s)) /(الشهادة صالحة فقط لمحتوياتها (فق 1 نوع (أنواع)

TURKISH STANDARDS INSTITUTION
INSPECTION AND SURVEILLANCE CENTER
Ostim Serhat Mah. Cevat Dündar Cad. 1236 Sk. No: 1 Yenimahalle / ANKARA
Tel: +90 312 592 51 00 Fax: +90 312 592 51 92

SAUDI ARABIA - SASO

STANDARDS ORGANISATION OF NIGERIA

...improving life through standards

STANDARDS ORGANISATION OF NIGERIA
CONFORMITY ASSESSMENT PROGRAM

SONCAP CERTIFICATE

Exporter's Name: CVS HAVALANDIRMA SIST.SAN VE TIC A.S. **Address:** CUMHURIYET MH. KARTAL CD. N:101/1 KARTAL-ISTANBUL-TURKEY **Telephone:** +90 216 417 1248 **Fax:** +90 216 417 3448 **Email:** MURAT.PARLAK@CVSAIR.COM.TR	**Importer's Name:** LARYZE TECHNICAL COMPANY LTD **Address:** 52, OKEPOPO STREET, LAGOS ISLAND, LAGOS, NIGERIA **Telephone:** +234 802 319 84 84 **Fax:** +234 803 44 89 531 **Email:** LARYZETECH@YAHOO.COM

IAF No.:	Date of RFC Receipt:	SC. No.:	Date of Issuance:
JI03CE	2017-09-21	NGC12000172	2017-12-05
Country of Origin:	**Inspection Date:**	**Destination Port:**	**Country of Supply:**
TURKEY	2017-11-01	TINCAN/LAGOS	TURKEY
Testing Lab Ref:	**Carrier/Shipper:**	**Invoice No.:**	**Date:**
--/--	CVS HAVALANDIRMA SIST.SAN VE TIC A.S.	052684	2017-11-02
FOB Value:	**E Form M:**	**Letter of Credit:**	**IAF Country Office:**
28669.81	MF20170116103/BA06320170006698		CCIC DUBAI
FOB Currency:	**RC/BN Number:**	**TIN:**	**Version:**
USD	RC692540	10061855-0001	1

Item No.	Declared HS Code	Quantity & Units	Brand Name	Model No.	Product Description	Route Used	Standard/ Nominative Ref	Registration/ Licence Ref
1	841459	50.000 PIECES	CVSAIR	--/--	CIRCULAR INLINE FAN	B	TS EN 60204-1: 2011	NGR12000125
2	841459	6.000 PIECES	CVSAIR	--/--	RECTANGULAR DUCT FAN	B	TS EN 60204-1: 2011	NGR12000125
3	841459	4.000 PIECES	CVSAIR	--/--	AXIAL FAN	B	TS EN 60204-1: 2011	NGR12000125
4	841459	1.000 PIECE	CVSAIR	--/--	JETFAN	B	TS EN 60204-1: 2011	NGR12000125
5	841459	17.000 PIECES	CVSAIR	--/--	VERTICAL ROOF FAN	B	TS EN 60204-1: 2011	NGR12000125

This certificate is confirmation that the above products conform to the essential recommendations of SON approved standards. It does not verify the actual quantity shipped and any information presented with respect to quantity and description are drawn directly from the exporter's final invoice and/or packing list. It is the sole responsibility of the exporter to ensure that the products shipped are in accordance with their SON Product Certificate and contractual obligations to the buyer. The issuer's responsibility and liability are limited to the terms and conditions of its agreement with its client and it assumes no liability to any other party for losses, expenses and damages occasioned by the use of this certificate.

This Certificate is issued by the Standards Organization of Nigeria. It does not relieve the seller and buyer from their obligations to each other or from compliance to any regulations concerning the import of goods in Nigeria.

Signed:

授权签字人 Authorized Signature(s)

R 0110926

NIGERIA SONCOP PRODUCT CERTIFICATE

TÜRKMENISTANYŇ YKDYSADYÝET WE ÖSÜŞ MINISTRLIGINIŇ
INTELLEKTUAL EÝEÇILIK BOÝUNÇA DÖWLET GULLUGY

№ 12960 HARYT NYŞANYNYŇ

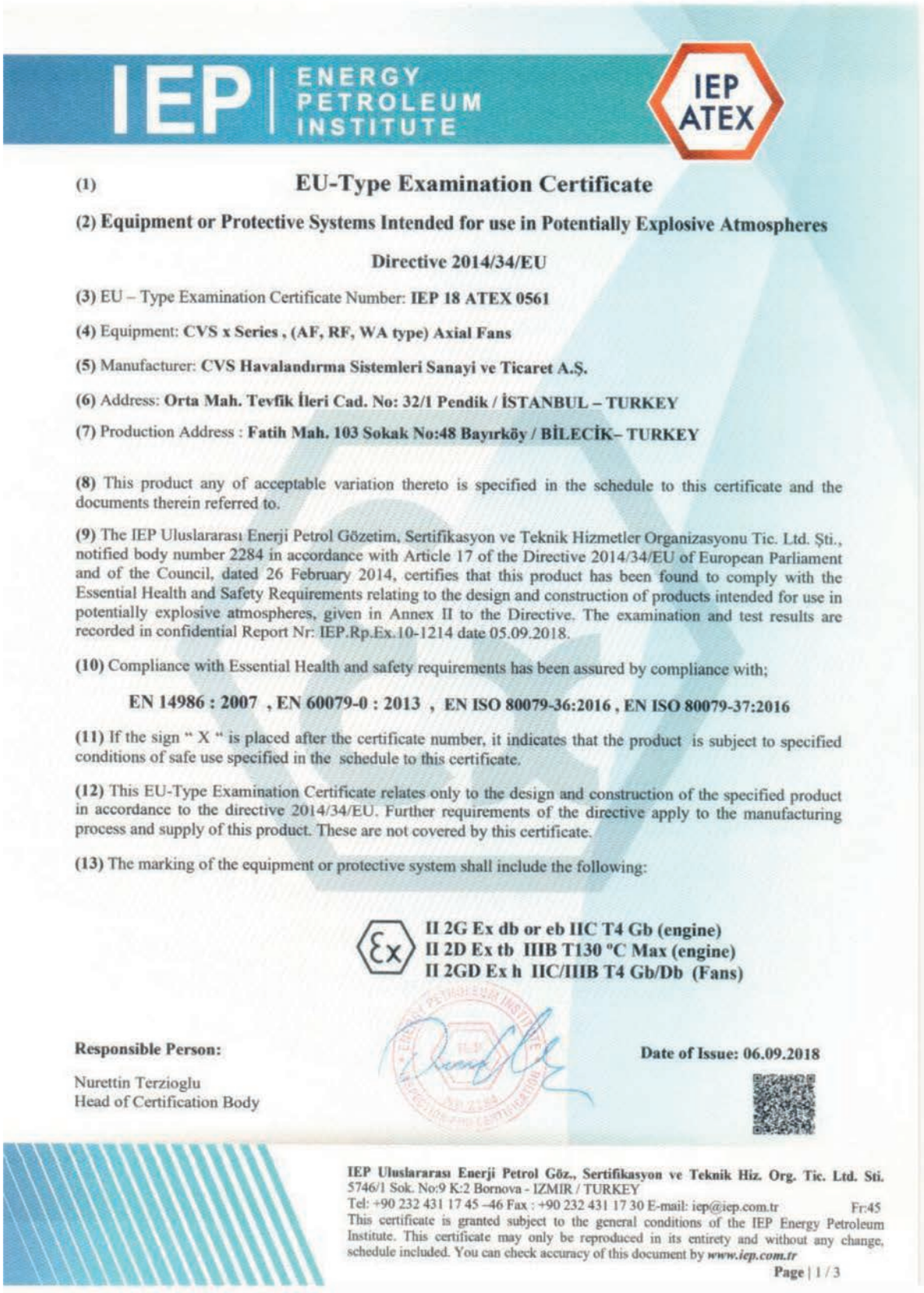
ŞAHADATNAMASY

Eýesi (ýurt): **SiWieS Hawalandyrma Sistemleri Sanaýi we Tijaret Limited Şirketi (TR)**

Harytlaryň we/ýa-da hyzmatlaryň klaslary:	**11, 35, 37.**
Ilkinjilik:	**17.05.2013**
Haýyşnamanyň №:	**2013.0270**
Haýyşnamanyň gelen senesi:	**17.05.2013**
Döwlet reýestrinde bellige alynan senesi:	**29.07.2015**
Hereket edýän möhleti	**17.05.2023** çenli

TÜRKMENISTANYŇ YKDYSADYÝET WE ÖSÜŞ MINISTRLIGINIŇ INTELLEKTUAL EÝEÇILIK BOÝUNÇA DÖWLET GULLUGY

Başlygyň orunbasary _____ *A.Annaniýazow*



IEP | ENERGY PETROLEUM INSTITUTE

IEP ATEX

(1) **EU-Type Examination Certificate**

(2) Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres

Directive 2014/34/EU

(3) EU – Type Examination Certificate Number: **IEP 18 ATEX 0561**

(4) Equipment: **CVS x Series , (AF, RF, WA type) Axial Fans**

(5) Manufacturer: **CVS Havalandırma Sistemleri Sanayi ve Ticaret A.Ş.**

(6) Address: **Orta Mah. Tevfik İleri Cad. No: 32/1 Pendik / İSTANBUL – TURKEY**

(7) Production Address : **Fatih Mah. 103 Sokak No:48 Bayırköy / BİLECİK– TURKEY**

(8) This product any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(9) The IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Şti., notified body number 2284 in accordance with Article 17 of the Directive 2014/34/EU of European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in confidential Report Nr: IEP.Rp.Ex.10-1214 date 05.09.2018.

(10) Compliance with Essential Health and safety requirements has been assured by compliance with;

EN 14986 : 2007 , EN 60079-0 : 2013 , EN ISO 80079-36:2016 , EN ISO 80079-37:2016

(11) If the sign " X " is placed after the certificate number, it indicates that the product is subject to specified conditions of safe use specified in the schedule to this certificate.

(12) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the directive 2014/34/EU. Further requirements of the directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(13) The marking of the equipment or protective system shall include the following:

II 2G Ex db or eb IIC T4 Gb (engine)
II 2D Ex tb IIIB T130 °C Max (engine)
II 2GD Ex h IIC/IIIB T4 Gb/Db (Fans)

Responsible Person:

Nurettin Terzioglu
Head of Certification Body

Date of Issue: 06.09.2018

IEP Uluslararası Enerji Petrol Göz., Sertifikasyon ve Teknik Hiz. Org. Tic. Ltd. Sti.
5746/1 Sok. No:9 K:2 Bornova - IZMIR / TURKEY
Tel: +90 232 431 17 45 –46 Fax : +90 232 431 17 30 E-mail: iep@iep.com.tr Fr:45

ATEX CERTIFICATE

Certificate of Registration

This certificate has been awarded to

CVS HAVALANDIRMA SİSTEMLERİ SAN. VE TİC. A.Ş.

Cumhuriyet Mah. Kartal Cad. No:101/1 Kartal İSTANBUL, Turkey

in recognition of the organization's Quality Management System which complies with

ISO 9001:2015

The scope of activities covered by this certificate is defined below

Manufacture, Purchasing and Selling of All Types of Industrial Heating, Ventilation and Cooling Systems and Its Equipments, All Construction Works and Services

Certificate Number:	Date of Issue: (Original)	Date of Issue:
82724/A/0001/UK/En	02 June 2017	02 June 2017
Issue No:	**Expiry Date:**	
1	01 June 2020	

Issued by: *On behalf of the Schemes Manager*

0043

If there is any doubt as to the authenticity of this certificate, please do not hesitate to contact the Head Office of the Group on info@urs-certification.com.
URS is a member of United Registrar of Systems (Holdings) Ltd. Derby Manor, Derby Road, Bournemouth, BH1 3QB. UK. Company Registration no. 5295400

Page 1 of 1

ISO 9001:2015

TCS

MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT IAF

JAS-ANZ

www.jas-anz.org/register

CERTIFICATE

CVS HAVALANDIRMA SİSTEMLERİ SANAYİ VE TİCARET ANONİM ŞİRKETİ

Orta Mah. Tevfik İleri Cad. No:32/1 Pendik / İstanbul / TÜRKİYE

TCS Belgelendirme tarafından denetlenmiş ve uygulamakta olduğu Çevre Yönetim Sisteminin
is audited by TCS Certification and applied Environment Management System meet the requirements of

ISO 14001:2015

standardına aşağıdaki kapsamda uymakta olduğu gözlenmiştir.
standard for the following activities.

Otopark Havalandırması (Aksiyal Kanal Fanı, Aksiyal Jet Fan, Radyal Jet Fan, Çift Yönlü Aksiyal Jet Fan), Bina Havalandırması (Kanal Fanı, Hücreli Fan, Çatı Fanı, Duvar Tipi Fan, Klima Santrali), İç Mekan Havalandırması(Banyo Fanı, Karma Akışlı Fan, Mutfak Fanı, Isı Geri Kazanım Cihazı), Sığınak Havalandırması (Sığınak Fanı) Montajı

Installation of; Carpark Ventilation (Axial Duct Fan, Axial Jet Fan, Radial Jet Fan, Axial Reversible Fan), Building Ventilation (Duct Type Fan, Cabinet Fan, Wall Type Fan, Air Handling Unit), Residental Ventilation (Bathroom Fans, Mixed Flow Fans, Kitchen Fan, Heat Recovery Unit), Shelter Ventilation (Shelter Fan)

Sertifika No / *Certificate No:* **EM-00 90 160426-TR**

Sertifika İlk Yayın Tarihi / *Certificate Date* 08.07.2016

Sertifika Son Basım Tarihi / *Certificate Last Issue Date* 06.07.2018

Mevcut Belgelendirmenin Geçerlilik Periyodu / *Validity Date of Current Certification Period* 08.07.2016 - 08.07.2019

SERTİFİKA GEÇERLİLİK TARİHİ : 08.07.2019

INSPECTION PRODUCT TCS ONAY SYSTEM APPROVAL

Kocasinan Cad. Yanardağ Sk. No: 9/11 Küçükbakkalköy Ataşehir / İstanbul
T: 0216 573 55 53 F: 0216 573 88 01 info@tcscert.com www.tcscert.com

Bu belge müşterinin TCS prosedürlerine uyduğu sürece geçerlidir
This certificate is valid during the customer obeys the TCS procedures

FRM.S.74_REV05

TCS

ISO 14001:2015

CERTIFICATE

CVS HAVALANDIRMA SİSTEMLERİ SANAYİ VE TİCARET ANONİM ŞİRKETİ

Orta Mah. Tevfik İleri Cad. No:32/1 Pendik / İstanbul / TÜRKİYE

TCS Belgelendirme tarafından denetlenmiş ve uygulamakta olduğu İş Sağlığı ve Güvenliği Yönetim Sisteminin
is audited by TCS Certification and applied Occupational and Safety Management System meet the requirements of

OHSAS 18001:2014

standardına aşağıdaki kapsamda uymakta olduğu gözlenmiştir.
standard for the following activities.

Otopark Havalandırması (Aksiyal Kanal Fanı, Aksiyal Jet Fan, Radyal Jet Fan, Çift Yönlü Aksiyal Jet Fan), Bina Havalandırması (Kanal Fanı, Hücreli Fan, Çatı Fanı, Duvar Tipi Fan, Klima Santrali), İç Mekan Havalandırması(Banyo Fanı, Karma Akışlı Fan, Mutfak Fanı, Isı Geri Kazanım Cihazı), Sığınak Havalandırması (Sığınak Fanı) Montajı

Installation of; Carpark Ventilation (Axial Duct Fan, Axial Jet Fan, Radial Jet Fan, Axial Reversible Fan), Building Ventilation (Duct Type Fan, Cabinet Fan, Wall Type Fan, Air Handling Unit), Residental Ventilation (Bathroom Fans, Mixed Flow Fans, Kitchen Fan, Heat Recovery Unit), Shelter Ventilation (Shelter Fan)

Sertifika No / *Certificate No:* **OHS-00 90 160426-TR**

Sertifika İlk Yayın Tarihi / 08.07.2016
Certificate Date

Sertifika Son Basım Tarihi / 06.07.2018
Certificate Last Issue Date

Mevcut Belgelendirmenin Geçerlilik Periyodu / 08.07.2016 - 08.07.2019
Validity Date of Current Certification Period

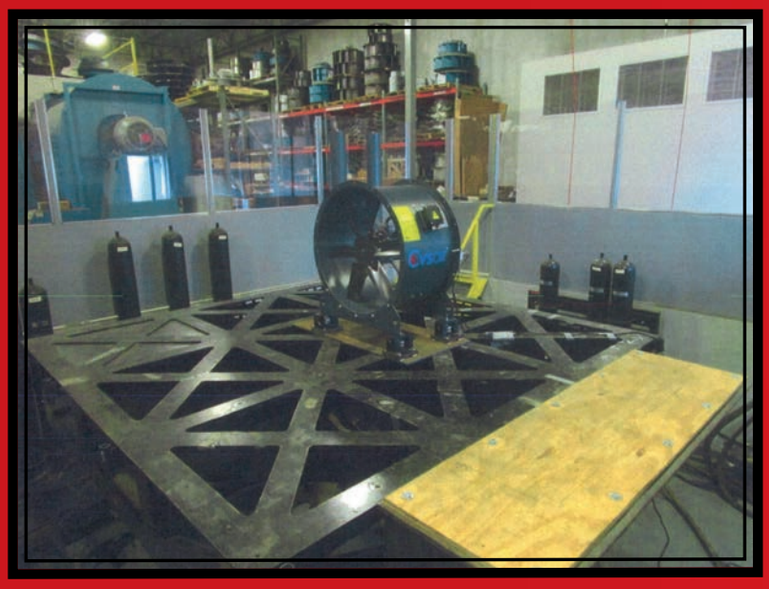
SERTİFİKA GEÇERLİLİK TARİHİ : 08.07.2019

FRM.S.74_REV04

Kocasinan Cad. Yanardağ Sk. No: 9/11 Küçükbakkalköy Ataşehir / İstanbul
T: 0216 573 55 53 F: 0216 573 88 01 info@tcscert.com www.tcscert.com
Bu belge müşterinin TCS prosedürlerine uyduğu sürece geçerlidir.
This certificate is valid during the customer obeys the TCS procedures.

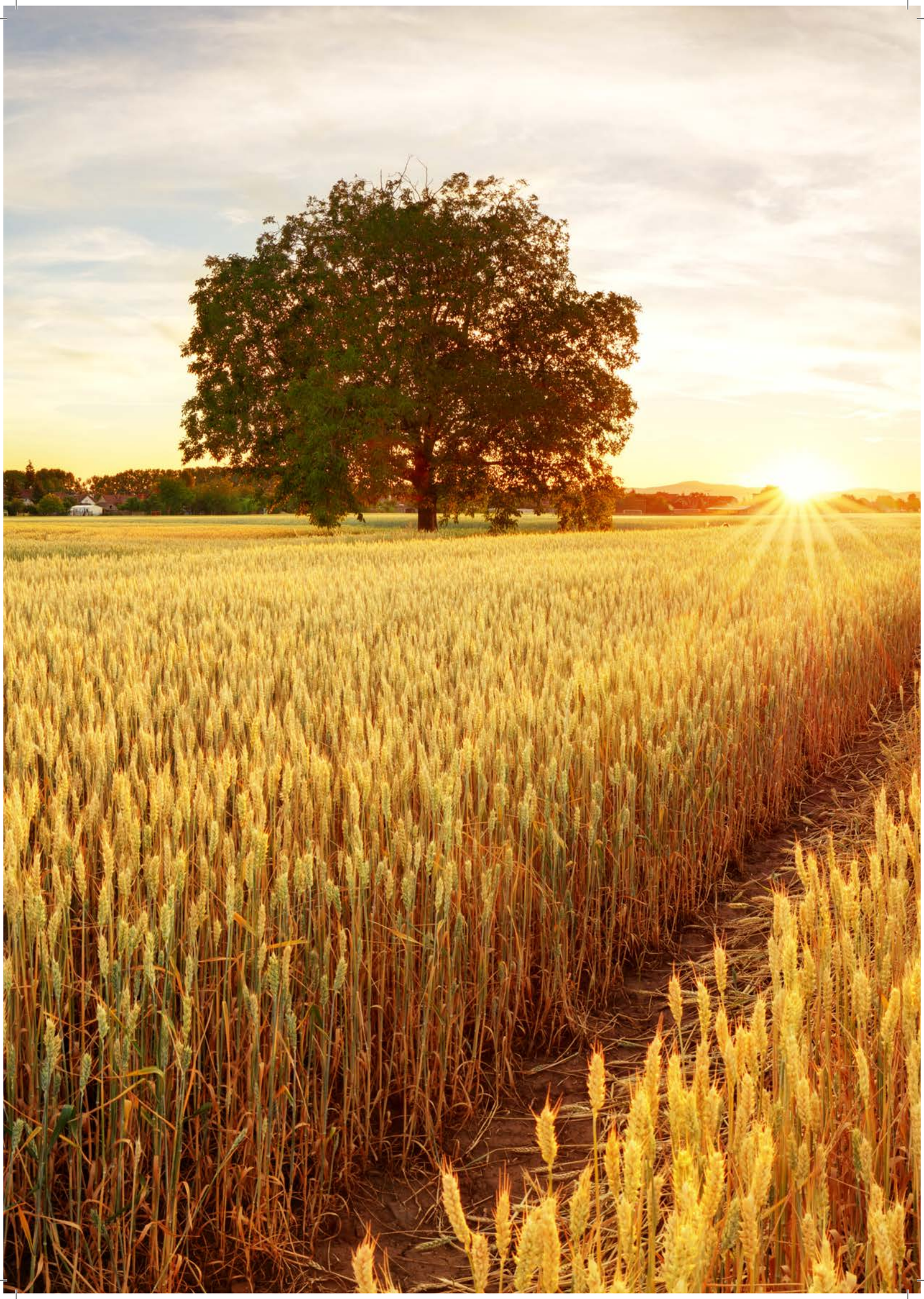
OHSAS 18001:2014

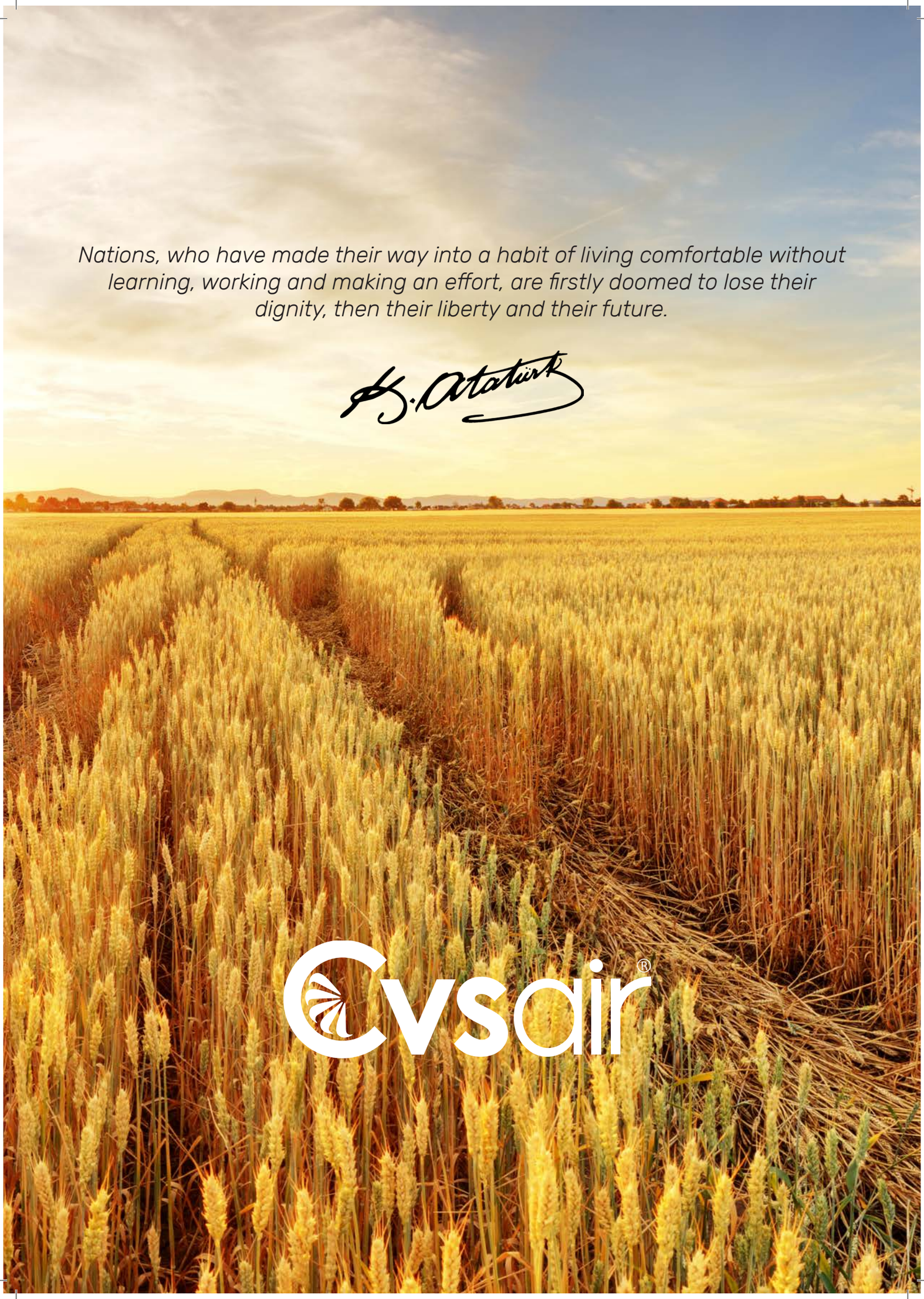
Cvsair®



EARTH QUAKE

TESTED




Nations, who have made their way into a habit of living comfortable without learning, working and making an effort, are firstly doomed to lose their dignity, then their liberty and their future.
M. Atatürk
Cvsair®

Cvsair®

new air bender

10

www.cvsair.com.tr