



Euphoria®

HEATING • VENTILATION • AIR CONDITIONING

CONTENTS



4

TKS / AIR HANDLING UNIT



8

**TNAS / POOL
DEHUMIDIFICATION UNIT**



10

**TKS-H / HYGIENIC AIR
HANDLING UNITS**



12

TKS-R / ROOFTOP



16

**TIGK-HP / HEAT PUMP HEAT
RECOVERY UNITS**



18

TIGK / HEAT RECOVERY UNIT



20

TDEF / AXIAL JET FAN



24

TDEF / SMOKE EXHAUST FAN



26

TKAF / AXIAL FAN



26

**THMF-E / ELECTROSTATIC
FILTER KITCHEN FAN UNIT**



32

THMF / KITCHEN FAN UNIT



34

TMF / KITCHEN EXHUST FAN



36

THF / VENTILATION UNIT



38

TEH / VENTILATION UNIT



40

TKMF / DUCT TYPE KITCHEN FAN





AIR HANDLING UNIT

TKS

Air handling units which are modular designed and produced in a double walled construction with a wall thickness of 40 mm or 60 mm, with rock wool insulation, within the range of 1.000 m³ / h to 125.000 m³ / h air flow.

Air Handling Units are used for air conditioning in residential, commercial and industrial facilities. The exterior surfaces of A / C plants are painted galvanized sheet in RAL 9002 colour and the inner surfaces can be produced using galvanized, painted or stainless sheet according to demand and application.

Heat Recovery System

In our day and age, plated, rotor and battery- type heat recovery elements are used for the energy-saving which is of vital importance. The heat recovery devices used in the air conditioning systems approximate the enthalpy and the heat of the fresh air with the internal volume conditions by ensuring the pre-heating (cooling) with the exhaust air of the fresh air obtained from the exterior conditions.





Fans & Engine

There is a fan cell in the air conditioning unit for the air circulation with aspirator and/or ventilator according to the environment requirements. While forward curved wing-type fans are preferred for the low pressure units, both forward curved and backward curved wing-type fans can be used for the medium and high pressure units. In addition to these, the aerofil wing-type fans are preferred as they are productive and run at lower noise levels.

Cooling Heating Cell

The batteries are selected according to the fluid type. The battery pipes can be copper or steel, the battery wings can be aluminium, copper or steel. The aluminium or copper wings can be covered with epoxy or hydrophilic. The collectors can be steel or copper. The test pressures are 20 bars. It can be under 30 bars upon demand. It is mounted on the skidders in order to easily dismantle for maintenance.



The Mixture and Filter Cell

The cell is composed of 3 G3-G4 filters with damper and tray. A sum of air is exhausted from this point with the exhaust damper on this cell and fresh air is received at the same amount from other dampers. It is released to the environment by conditioning after the mixture with the interior air. The air settings in this cell can be adjusted manually or with the damper engines at the desired rate. The dampers are aluminum aerodynamic winged and born at the both sides. The filter is protected at the both surfaces with the mesh wire and it can easily be dismantled and cleaned by moving the tray through the skidders.



Humidifier Cell

The humidifiers are used for the filling, steam, ultrasonic types.

The humidifier cell is used for humidifying the air. The air passing through the unit is saturated with the humidifier by pulverizing the water and the necessary project conditions are met. There is watertight water basin under the cells. There are aluminum eliminators (drift eliminator) at the cell outlets in order to prevent the water drift. Steam humidifier cells contain a generates steam and they can be mounted in the empty cells optionally.

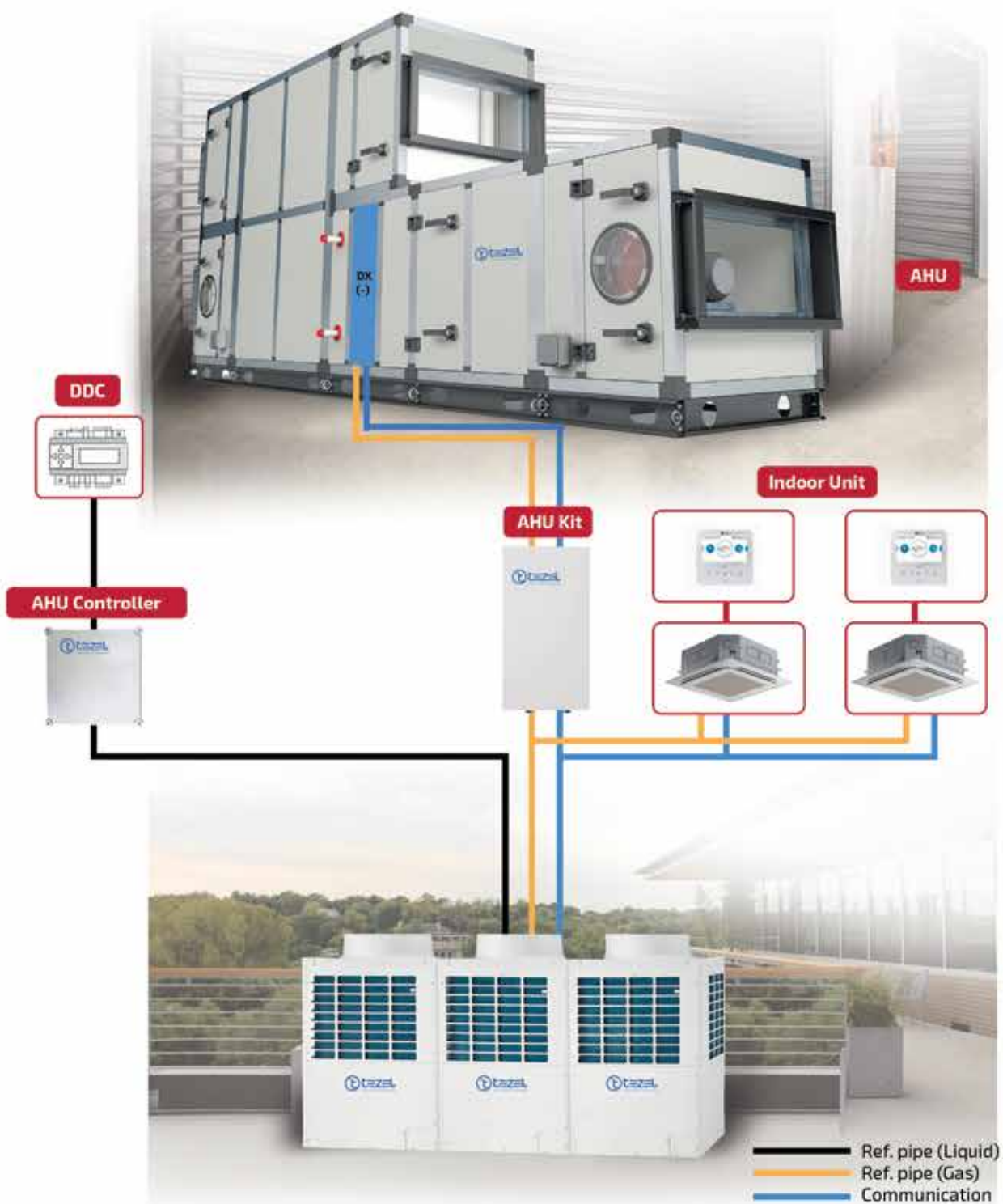


PRODUCT CODE	EXTERNAL DIMENSIONS		INTERNAL DIMENSIONS		SERPANTIN FAYDALI ALANI	AIR VELOCITY AND AIRFLOW (M ³ /H)						
	HEIGHT (H)MM	WIDTH (W)MM	HEIGHT (H)MM	WIDTH (W)MM		3.5 M/S	3.25 M/S	3.0 M/S	2.75 M/S	2.5 M/S	2.25 M/S	2.0 M/S
TKS 1010	750	750	670	670	0.29	3.634	3.374	3.115	2.855	2.596	2.336	2.076
TKS 1015	750	1050	670	970	0.46	5.751	5.39	4.929	4.518	4.108	3.697	3.286
TKS 1020	750	1350	670	1270	0.62	7.867	7.305	6.744	6.182	5.620	5.058	4.496
TKS 1515	1050	1050	970	970	0.70	8.777	8.150	7.523	6.896	6.269	5.642	5.016
TKS 1520	1050	1350	970	1270	0.95	12.028	11.169	10.310	9.451	8.591	7.732	6.873
TKS 1525	1050	1650	970	1570	1.21	15.279	14.187	13.096	12.005	10.913	9.822	8.731
TKS 2020	1350	1350	1270	1270	1.28	16.078	14.929	13.781	12.632	11.484	10.336	9.187
TKS 2025	1350	1650	1270	1570	1.60	20.170	18.729	17.289	15.848	14.407	12.966	11.526
TKS 2030	1350	1950	1270	1870	1.95	24.555	22.801	21.047	19.293	17.539	15.785	14.031
TKS 2525	1650	1650	1570	1570	1.97	24.767	22.998	21.228	19.459	17.690	15.921	14.152
TKS 2530	1650	1950	1570	1870	2.40	30.210	28.052	25.894	23.736	21.578	19.421	17.263
TKS 2535	1650	2250	1570	2170	2.83	35.653	33.106	30.560	28.013	25.466	22.920	20.373
TKS 3030	1950	1950	1870	1870	2.87	36.175	33.591	31.007	28.423	25.839	23.255	20.671
TKS 2540	1650	2500	1570	2420	3.17	39.917	37.066	34.214	31.363	28.512	25.661	22.810
TKS 3035	1950	2250	1870	2170	3.39	42.752	39.698	36.644	33.591	30.537	27.483	24.430
TKS 3040	1950	2500	1870	2420	3.80	47.904	44.482	41.061	37.639	34.217	30.795	27.374
TKS 3535	2250	2250	2170	2170	3.95	49.737	46.185	42.632	39.079	35.527	31.974	28.421
TKS 3045	1950	2800	1870	2720	4.32	54.481	50.590	46.698	42.807	38.915	35.024	31.132
TKS 3540	2250	2500	2170	2420	4.46	56.163	52.152	48.140	44.128	40.117	36.105	32.093
TKS 3545	2250	2800	2170	2720	5.04	63.489	58.954	54.419	49.884	45.349	40.814	36.279
TKS 4040	2500	2500	2420	2420	4.97	62.613	58.141	53.668	49.196	44.724	40.251	35.779
TKS 3550	2250	3100	2170	3020	5.65	71.200	66.114	61.029	55.943	50.857	45.771	40.686
TKS 4045	2500	2800	2420	2720	5.63	70.981	65.911	60.841	55.771	50.701	45.631	40.560
TKS 4050	2500	3100	2420	3020	6.32	79.637	73.949	68.26	62.572	56.884	51.195	45.507
TKS 4055	2500	3400	2420	3320	7.01	88.293	81.987	75.860	69.373	63.067	56.760	50.453
TKS 4060	2500	3700	2420	3620	7.69	96.948	90.024	83.100	76.175	69.250	62.325	55.400

AIR HANDLING UNIT WITH DX COILS

DX AHU is the Heat Pump AHU combined with unique technology of the AHU and VRF outdoor unit. As a new solution, it can provide cooling, heating and free cooling operations for energy reduction via air control throughout external and internal environments during all seasons.

When controlling the indoor air temperature, user can choose to set indoor temperature that matches either the supply air or return air via temperature sensor.





POOL DEHUMIDIFICATION UNIT

Model Info

PRODUCT CODE	POOLSURFACE AREA (m ²)			DEHUMIDIFYING CAPACITY (kg/h)	AIRFLOW (m ³ /h)	VENTILATION POWER (kW)/(A)	ASPIRATION POWER (kW)/(A)	COMPRESSOR POWER (kW)/(A)	COP	HEAT RECOVERY TRANSFER POWER (kW)	TOTAL POWER (kW)/(A)
	NKH	EH	DH								
TNAS20	72	51	41	20	2527	1,29 / 2,50	1,25 / 2,42	2,33 / 4,56	4,12	11,00	4,87 / 9,48
TNAS35	121	86	69	35	4095	1,24 / 2,42	1,24 / 2,42	3,82 / 6,92	4,13	16,00	6,30 / 11,76
TNAS45	157	112	90	45	5046	1,73 / 3,31	1,68 / 3,21	5,18 / 10,07	4,10	22,00	8,59 / 16,59
TNAS57	198	141	113	57	6356	2,36 / 4,47	2,36 / 4,47	6,35 / 11,93	4,21	28,00	11,07 / 20,87
TNAS67	234	167	133	67	7498	2,43 / 4,59	2,43 / 4,59	7,29 / 13,28	4,32	33,00	12,15 / 22,46
TNAS85	294	210	168	85	9426	3,35 / 6,33	3,35 / 6,33	9,49 / 16,78	4,18	41,00	16,19 / 29,44
TNAS100	346	247	197	100	11093	4,25 / 8,25	4,25 / 8,25	11,15 / 21,77	4,18	48,00	19,65 / 38,27
TNAS130	451	322	258	130	14473	5,91 / 10,81	5,91 / 10,81	14,45 / 25,76	4,21	59,00	26,27 / 47,38
TNAS160	555	396	317	160	18115	7,84 / 14,43	7,84 / 14,43	18,20 / 32,41	4,18	73,00	33,88 / 61,27

NOTE: If your frequency is both, please kindly contact with us for product and price info.

TNAS

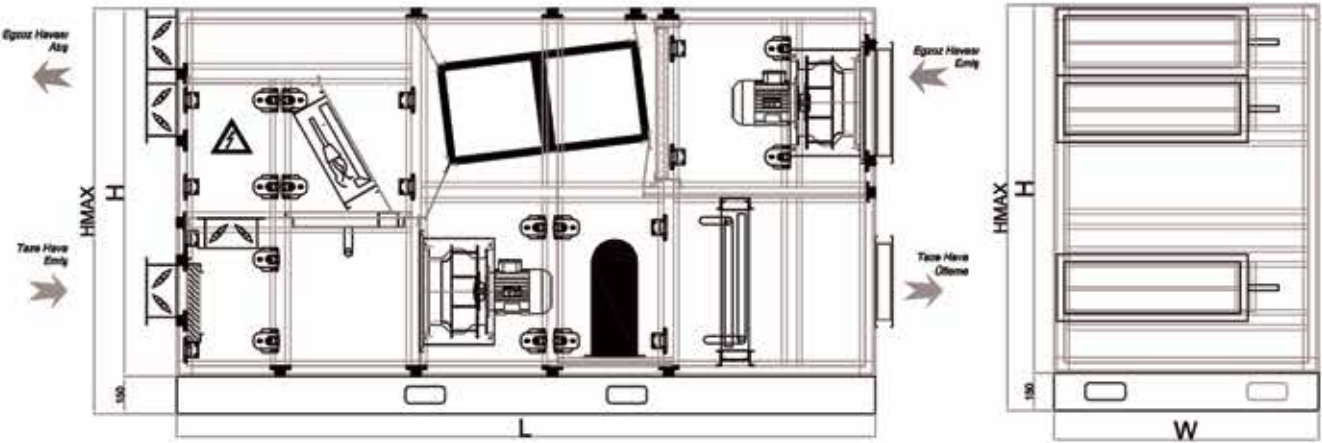
Smart Humidity Elimination Plant; Because it follows you and your requirements and needs and it offers you the comfortable and convenient air you want in a timely and economical way. After adjusting the settings you want, our system detects seasonal transitions according to time and controls it accordingly. It also uses a user friendly interface with 7" touch screen which is very practical to use. Remote technical service can be provided via internet connection feature and time and financial savings can be made from the technical staff.

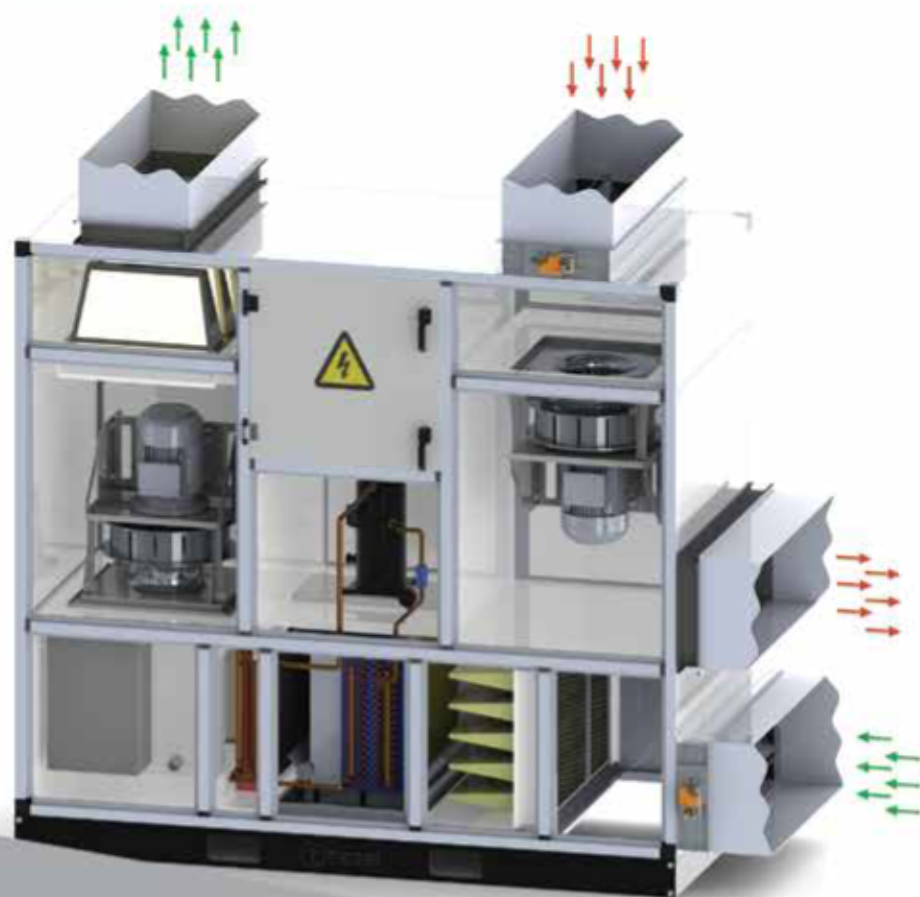
Our main features which stand out from the standard systems;

- Years of continuous and uninterrupted use with the smart/smooth seasonal transition.
- Easy to use with its 7" touch screen.
- Remote monitoring and control via internet connection.

Dimensions

MODEL	L	H	W	HMAX
TNAS-20	2770	1460	1050	1610
TNAS-35	3150	1850	1050	2000
TNAS-45	3400	1850	1350	2000
TNAS-57	3500	2500	1350	2650
TNAS-67	3500	2500	1650	2650
TNAS-85	3765	2140	1650	2290
TNAS-100	3965	2140	1950	2290





HYGIENIC AIR HANDLING UNITS

Model Info

PRODUCT CODE	VOLTAGE (V)	FREQUENCY (Hz)	MOTOR POWER (W)	(SUCTION) MOTOR (kW)	HUMIDIFIER (kg/h)	HEATING (kW)	COOLING (kW)	NUMBER OF COMPRESSORS	COMPRESSORS (kW)	AIRFLOW (m³/h)
TKS-H1	380	50	2,2	2,2	18	40	24	2	6	2400
TKS-H2	380	50	3	3	30	55	36	2	9	3500
TKS-H3	380	50	4	4	45	70	44	2	9	4500
TKS-H4	380	50	5,5	5,5	45	85	54	2	13,4	5500
TKS-H5	380	50	7,5	7,5	55	100	64	2	16,4	6500
TKS-H6	380	50	7,5	7,5	60	115	74	2	16,4	7500
TKS-H7	380	50	7,5	7,5	70	130	83	2	18,6	8500
TKS-H8	380	50	11	11	90	155	92	2	24	10000
TKS-H9	380	50	11	11	110	185	120	2	24	12000
TKS-H10	380	50	15	15	130	230	140	2	24	15000

TKS-H

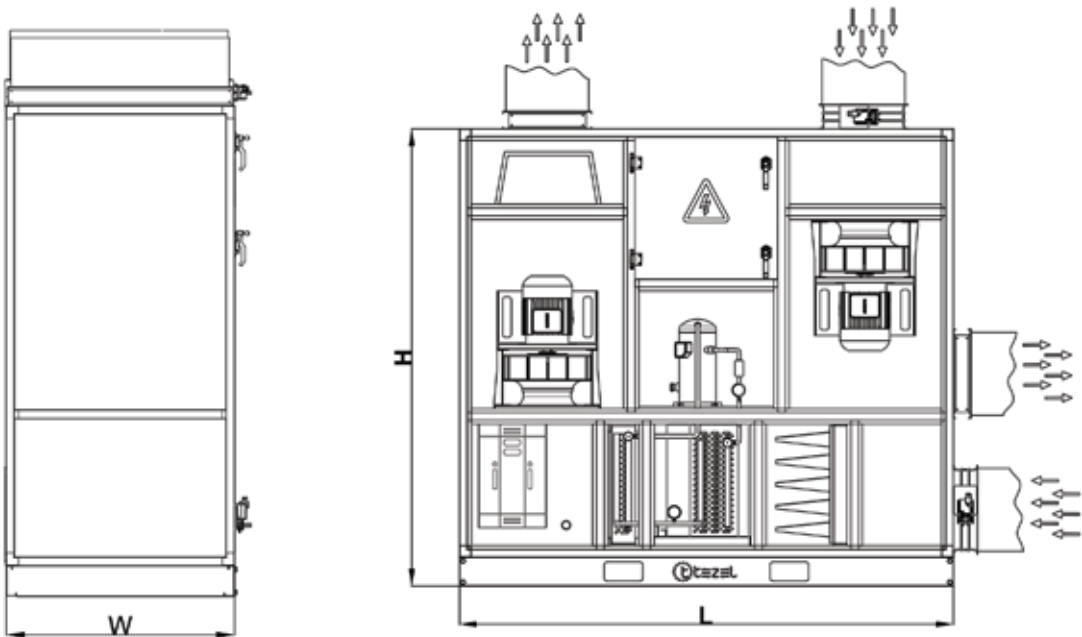
HYGIENIC AIR HANDLING UNIT

Hygienic air handling units are used in surgical operating rooms, clean rooms, food, medicine and chemistry facilities and in similar places where sensitive sterile conditions are required.

- Smooth interior surface by means of K-profile and aluminium framework specifically designed for hygienic series.
- Panels with interior layers fully covered by AISI 304 stainless steel sheets.
- Stainless steel skids for filter and exchangers and stainless steel silencer chamber sheets.
- Cooling and heating coils composed of copper pipes and epoxy coated fins.
- Fan, filter and humidifying compartments are equipped with sight glasses and lighting armatures.
- There is no need for a belt drive mechanism with direct drive NICOTRA plug fans.

Dimensions

PRODUCT CODE	LENGHT (mm)	WIDTH (mm)	HEIGHT (mm)
TKS-H1	2650	900	2100
TKS-H2	2750	950	2150
TKS-H3	2750	100	2200
TKS-H4	2800	1100	2300
TKS-H5	2950	1300	2400
TKS-H6	3400	1300	2500
TKS-H7	3400	1300	2500
TKS-H8	3500	1300	2900
TKS-H9	3500	1450	2900
TKS-H10	3650	1550	3200





ROOFTOP

TKS-R

Roof-top compact air conditioning unit is a compact and combined air conditioner which gathers the air conditioning unit and the condenser under a single structure, and where the cooling or heating cycle occurs in the same unit. These devices provide an entire air conditioning which includes cooling and heating control, ventilation and air cleaning. In addition, they are "air-to-air type" conditioners because the environment, in which the heat is provided and given, is air. They are divided into two main types as "only cooling devices" or "both heating and cooling devices". The heating function can also be provided through the use of the electrical heater, hot water battery or gas combustion module in addition to the operational function as the reverse-cycle heat pump.

The systems of roof-top compact air conditioning unit are generally suitable for places where there are not any central systems installed or planned to be installed. Almost all alternatives to air conditioning units can be provided by the relevant system. For instance, an opportunity for ambient air up to 100% in addition to the various mixture ratios on fresh air can be provided. Modular Air Conditioning Unit systems are used through the opportunities for free cooling, night cooling and heat recovery (plate or drum). Cooling can be provided through different methods such as heating and DX (direct expansion) with water, DX (direct expansion) heat pumped and direct-fired heating methods in accordance with the architectural needs.

Structure

Its appearance has been designed in accordance with the external environment. Air conditioners installed outdoor ensure that air loss is minimized. In addition, the inner surface and the exterior surface of the air conditioner can be easily cleaned. You can clean your air conditioner without any difficulty after you have taken the necessary precautions.



Compressor

A compressor performs two functions. It compresses the gas and moves it in the cycle. Thus, the compressor allows the refrigerant to perform its function continuously. The compression process necessarily loads heat to the gas. This load is called as "the Heat of Compression". The hot and compressed gas proceeds to the discharge line which is the last main part for transition to the condenser.

Evaporator and Fan

The expansion valve sprays low-pressure refrigerant particles into the evaporator made of forced air type-copper tubes which conduct the heat well. Aluminum surfaces have been used on the copper pipes in order to increase the heat transfer more. This increased surface is open to the air, and such an evaporator has a fan, which absorbs the air to pass through the blades, and a fan motor. The temperature of the air passed through the blades decreases and causes a cooling effect.

Evaporators conduct the air passed through to the interior climate with the help of a fan. The heat flow occurs in the form of heat load source/circulating air / aluminum blades/copper evaporator tubes/liquid refrigerant particles. The refrigerant particles can absorb a large amount of heat because they are at the stage of transition to gaseous phase. Thus, the refrigerant, which has been reduced in pressure through the expansion valve and then expanded in surface area through the evaporator, takes the indoor heat load, gasifies with the increment of heat, and thus, the cooling procedure is completed.



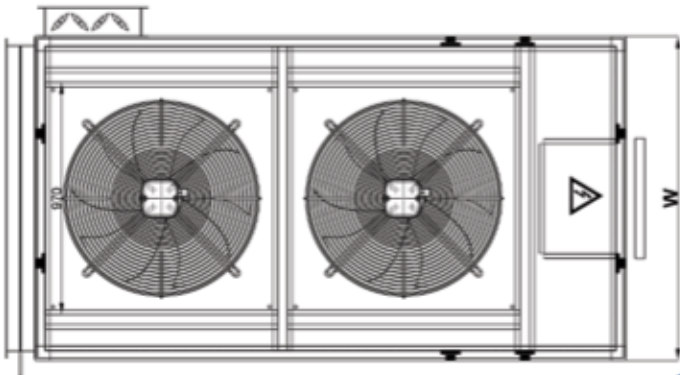
Natural Gas Burner

In cold climates, the air blown into the interior can be heated more. Thanks to the proportional natural gas burner, it operates according to the signal coming from the automation system, thus preventing over-consumption. Enough heating is provided saving energy and without polluting the nature.

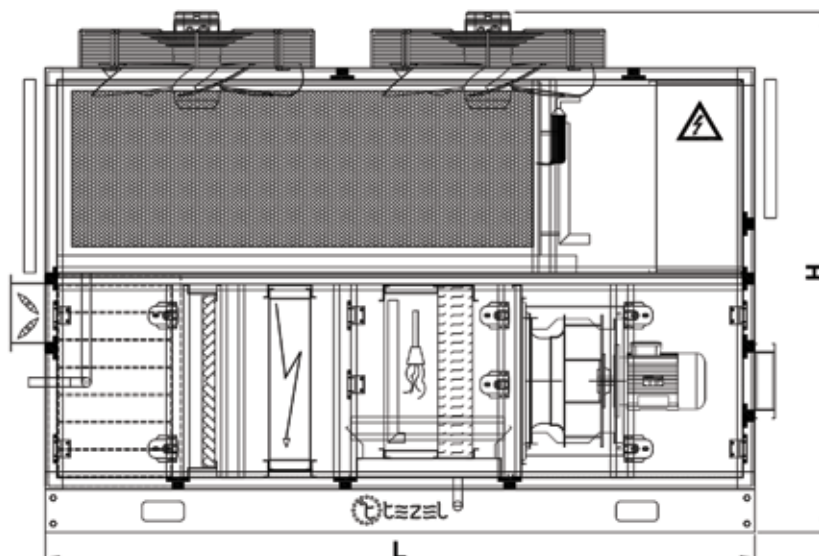
Model Info

	DISCREPTION	CODE	UNIT	MODEL					
				TKS1015	TKS1020	TKS1515	TKS1520	TKS1525	TKS2020
AIRFLOW	NOMINAL	-		4000	5000	6000	7500	9000	11000
	MINIMUM	-	m³/h	3500	4000	5000	6000	7500	9000
	MAXIMUM	-		4500	5500	7000	8500	10000	12500
COOLING	COOLING CAPACITY		kW	27,1	33,4	38,3	44,6	56,7	74,3
	EER	OC	-	3,01	3,07	2,92	2,91	2,94	3,09
	EUROVENT ENERGY CLASS		-	B	B	C	C	C	B
HEAT PUMP	HEATING CAPACITY		kW	29,8	36,8	42,1	49,0	62,3	81,7
	COP	HP	-	3,31	3,37	3,21	3,20	3,23	3,40
	EUROVENT ENERGY CLASS		-	C	C	C	C	C	B
COMPRESSOR	NUMBER OF CIRCUIT	-	Unit	1	1	2	2	2	2
	COMPRESSOR TYPE	-	-	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
	NUMBER OF COMPRESSOR	-	Unit	1	1	2	2	2	2
	COMPRESSOR POWER	-	K	9,0	10,9	13,1	15,3	19,3	24,0
EXTRA HEATING	NATURAL GAS TOTAL HEATING	NG	kW	OPTIONAL					
	ELECTRICITY HEATING CAPACITY	EH	kW	OPTIONAL					
	HOT WATER COIL CAPACITY	WH	kW	OPTIONAL					
	OUTSIDE AREA SOUND POWER	-	dB(A)	75,0	75,0	78,0	78,0	80,0	80,0
DIMENSION	LENGHT	L	mm	ABLE TO DESIGN BASED ON PROJECT					
	HEIGHT	H	mm						
	WIDHT	W	mm						

Capacities are based on the nominal Eurovent conditions:
Cooling: outdoor air temperature: 35°C db, 24°C wb, indoor air temperature: 27°C db, 19°C wb
Heating: outdoor air temperature: 7°C db, 6°C wb, indoor air temperature: 20°C db
The weight indicated in accordance with the EN14511-3:2013 standard is only for guidance purposes. Please see the rating label of the unit.



	DISCREPTION	CODE	UNIT	MODEL					
				TKS2025	TKS2525	TKS2530	TKS2535	TKS3035	TKS3040
AIRFLOW	NOMINAL	-		13500	16500	19500	23500	27500	30000
	MINIMUM	-	m ³ /h	11000	13500	16500	19500	23500	33500
	MAXIMUM	-		15500	18500	21500	25500	30000	35500
COOLING	COOLING CAPACITY		kW	88,0	107,0	120,0	158,4	185,0	205,0
	EER	OC	-	2,94	3,06	2,3	2,93	2,91	3,01
	EUROVENT ENERGY CLASS		-	C	B	C	C	C	B
HEAT PUMP	HEATING CAPACITY		kW	96,8	117,7	132,0	174,2	203,5	225,5
	COP	HP	-	3,24	3,36	3,22	3,23	3,20	3,32
	EUROVENT ENERGY CLASS		-	C	C	C	C	C	C
COMPRESSOR	NUMBER OF CIRCUIT	-	Unit	2	2	2	2	2	2
	COMPRESSOR TYPE	-	-	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
	NUMBER OF COMPRESSOR	-	Unit	2	4	4	4	4	4
	COMPRESSOR POWER	-	K	29,9	35,0	41,0	54,0	63,5	68,0
EXTRA HEATING	NATURAL GAS TOTAL HEATING	NG	kW	OPTIONAL					
	ELECTRICITY HEATING CAPACITY	EH	kW	OPTIONAL					
	HOT WATER COIL CAPACITY	WH	kW	OPTIONAL					
	OUTSIDE AREA SOUND POWER	-	dB(A)	82,0	82,0	82,0	82,0	85,0	85,0
DIMENSION	LENGHT	A	mm	ABLE TO DESIGN BASED ON PROJECT					
	HEIGHT	B	mm						
	WIDHT	C	mm						





HEAT PUMP HEAT RECOVERY UNITS

Model Info

PART	DEFINITION	CODE	UNIT	MODEL			
				TIGK-HP10	TIGK-HP20	TIGK-HP30	TIGK-HP40
AIRFLOW (m ³ /h)	NOMINAL (NOMINAL)	-	m ³ /h	1.000	2.000	3.000	4.000
	MINIMUM (MINIMUM)	-		500	1.500	2.500	3.500
	MAKSIMUM (MAXIMUM)+	-		1.500	2.500	3.500	4.500
COOLING	COOLING CAPACITY	OC	kW	5,2	10,5	16,9	21,9
	EER		-	3,00	3,00	3,00	3,00
	EUROVENT ENERGY CLASS		-	C	C	B	C
HEAT PUMP	HEATING CAPACITY	HP	kW	7,2	18,8	29,0	38,0
	EER		-	3,00	2,99	3,06	3,20
	EUROVENT ENERGY CLASS		-	C	C	C	B
COMPRASSOR	NUMBER OF CIRCUIT BATTERY	-	Adet	1	1	1	1
	COMPRASSOR TYPE	-	-	Scroll	Scroll	Scroll	Scroll
	NUMBER OF COMPRASSOR	-	Adet	1	1	1	1
	COMPRASSOR POWER	-	kW	9,8	11,5	17,7	22,7
FAN	FAN TYPE	-		EC Plug Fan	EC Plug Fan	EC Plug Fan	EC Plug Fan
	FAN MOTOR POWER	-	W	450	450	460	1650
	ELECTRICAL DATA	-		230/50/1~	230/50/1~	230/50/1~	4000/50/3~
	FAN SPEED	-	d/d	2180	2180	2550	3140
	NUMBER OF FAN	-	Adet	2	2	2	2

NOTE: If your frequency is both, please kindly contact with us for product and price info.

TIGK-HP

TIGK-HP Heat-pump heat recovery ventilation units are designed to provide high indoor air quality as well as energy savings and small pools dehumidification. TIGK-HP devices are using in the air to air heat recovery plate heat exchangers for heat transfer and the fresh air is obtained depend on room temperature. In this way, it is provided to breathe in the pool with dry and fresh air.

When the pool is dehumidified, heating in winter and cooling in summer provides comfortable and clean air to the interior environment. In the heat pump heat recovery devices, a fresh air blowing temperature of 20 ° C in summer and 30 ° C in winter can be obtained by the heat pump.

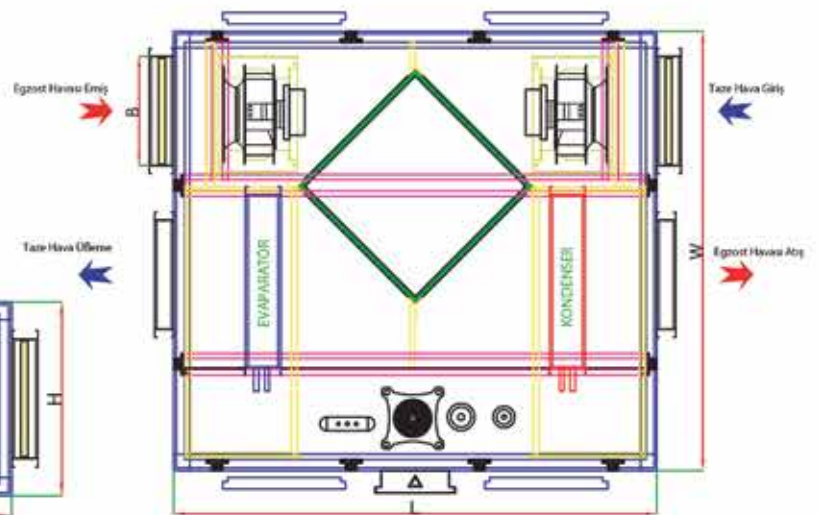
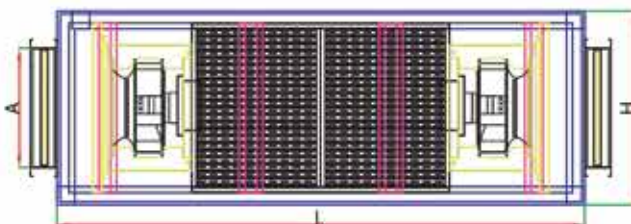
- 8 standart models with TSEK certification.
- Conditioned fresh air, with a temperature of 20 0 C in summer and 25 0 C winter)
- Compact structure (fresh air fan + exhaust air fan + plate type heat exchanger + evaporator + condenser + compressor + cooling equipments)
- High quality indoor air with synthetic filter.
- The design providing fast and easy installation and maintenance,
- Low noise level and working on required capacity by using direct driven fan with 5 speeds
- The high conductivity and performance, aluminum plate type heat recovery exchangers.

Dimensions

MODEL	L	H	W	A	B
TIGK-HP10	1530	550	1350	250	250
TIGK-HP20	1770	650	1610	400	400
TIGK-HP30	1770	700	1660	400	400
TIGK-HP40	1870	750	1800	450	450



Electronic Controller
"Supplied with the unit as standard"





HEAT RECOVERY UNIT

Model Info

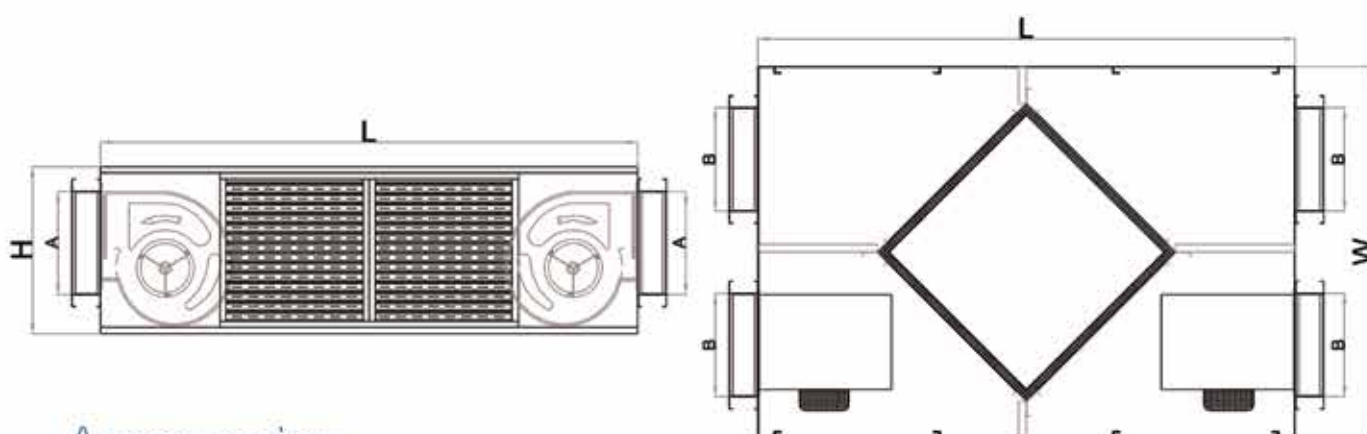
PRODUCT CODE	VOLTAGE (V)	FREQUENCY (Hz)	POWER (W)	SOUND LEVEL dB(A)	AIRFLOW (m ³ /h)	PRESSURE (Pa)
TIGK10	230	50	150*2	45,00	1000	200
TIGK20	230	50	450*2	47,00	2000	200
TIGK30	230	50	600*2	50,00	3000	200
TIGK40	230	50	750*2	53,00	4000	200

TIGK

- Winged and double suction radial fans are used.
- Fans are selected and dimensioned taking into consideration the utmost efficiency and optimum level of sound.
- Washable synthetic air filters are class G4. They can be easily cleaned thanks to its intervention cap.
- The fans of the heat recycling devices are 6 speed and can be remotely controlled.
- Electrical heater control can be made as 3 stages.

Dimensions

MODEL	L	H	W	A	B
TIGK-1000	1300	405	900	250	250
TIGK-2000	1530	450	1055	360	360
TIGK-3000	1670	500	1115	410	410
TIGK-4000	1700	530	1175	440	440



Accessories

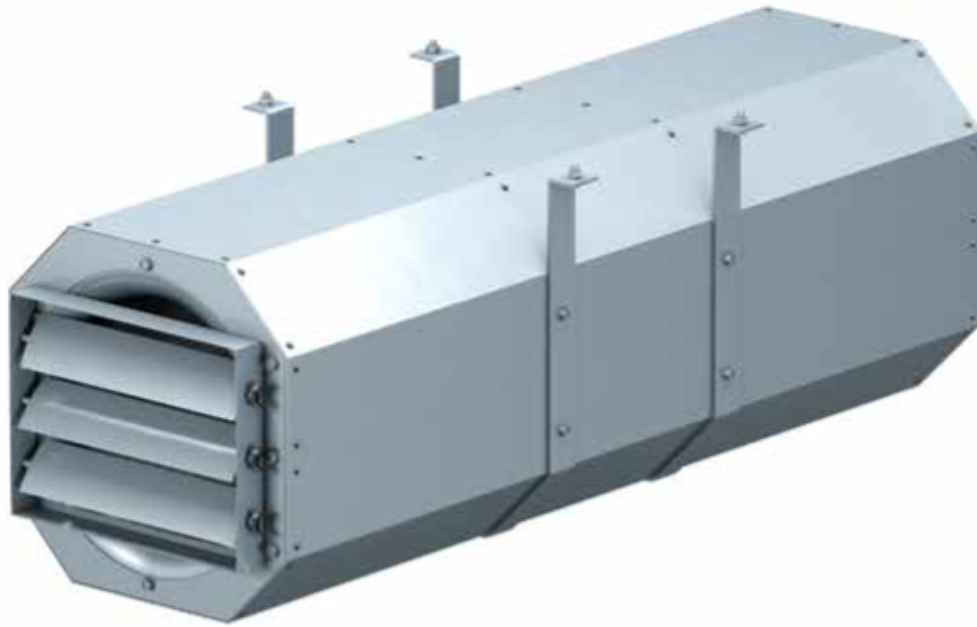
ELECTRICAL HEATER

PRODUCT CODE	AIRFLOW (m ³ /h)	VOLTAGE (V)	FREQUENCY (Hz)	POWER (kW)
TELK4	1000	380	50	4,00
TELK8	2000	380	50	8,00
TELK10	3000	380	50	10,00
TELK12	4000	380	50	12,00



CONTROL PANEL





AXIAL JET FAN

TDEF *Efectis*

TDEF Axial Jet Fan

The TDEF series axial fans are developed for ventilation without using any air channels in places such as the parking garages and tunnels. The TEZEL Jet Fans manufactured in line with the EN 12101-3 standards as five series of TDEF315, TDEF400, TDEF450, TDEF560 and TDEF630 provide air volume at the range of 4.750 m³/h – 36.000 m³/h. The wings that are highly productive, aluminum casting and have adjustable angles are used for our jet fans. There are Unilateral or Reversible types.

The TDEF series axial jet fans are designed by the TEZEL engineers in order to create hot smoke exhaust without any interruptions in cases of fire. The engines having the F200/2h, F300/2h, F400/2h fire resistance category and certified with CE and EN are used.

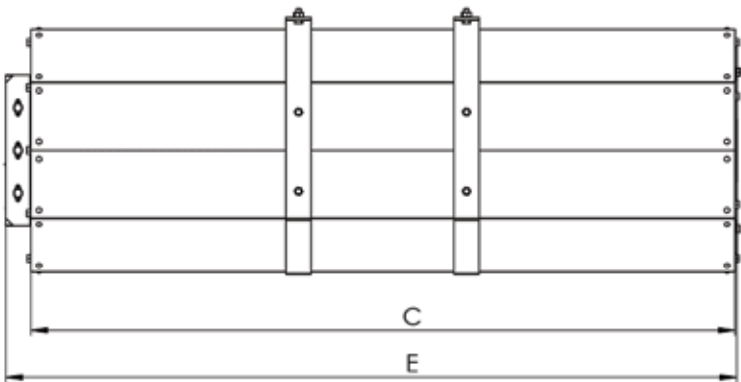
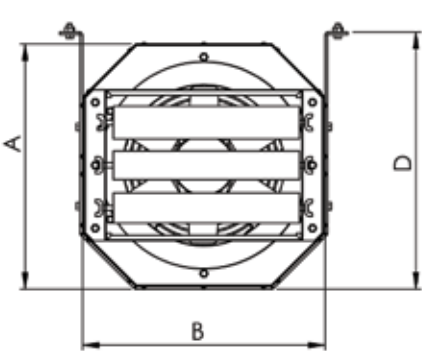
Usage

The ductless parking ventilation systems are the impulse and induction jet-fan smoke evacuation systems. The difference between the impulse and induction jet fans are that the high air velocity in the induction jet fan influences the surrounding air and drags it. As the ventilators of the both systems are short, they can smoothly be mounted on the ceiling of the driveways in the garages. Furthermore, as the air vents of the induction fans are narrow, the air flow can clear the hurdles such as beams. The cost of these systems is rather low compared to the slotted systems. These systems have low sound level in the daily air requirements.

Furthermore, with the advantage of the inductivity, the garage can be ventilated without zero points. As these systems do not have any complicated channel joint or joint with rotating beams, the mounting is rather easy. The energy consumption of these systems is rather low compared to other systems. In terms of static aspect, there is no need for the channel wall holes necessary for the bottom layers. The systems are used for the "Daily Co ventilation" in any kinds of parking garages and "Smoke Exhaust" in case of a fire.

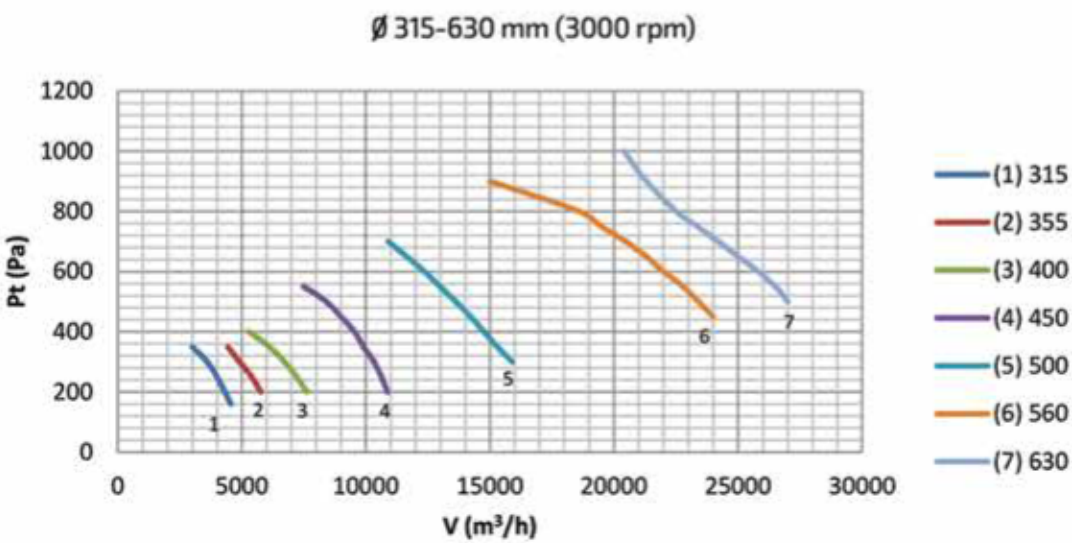
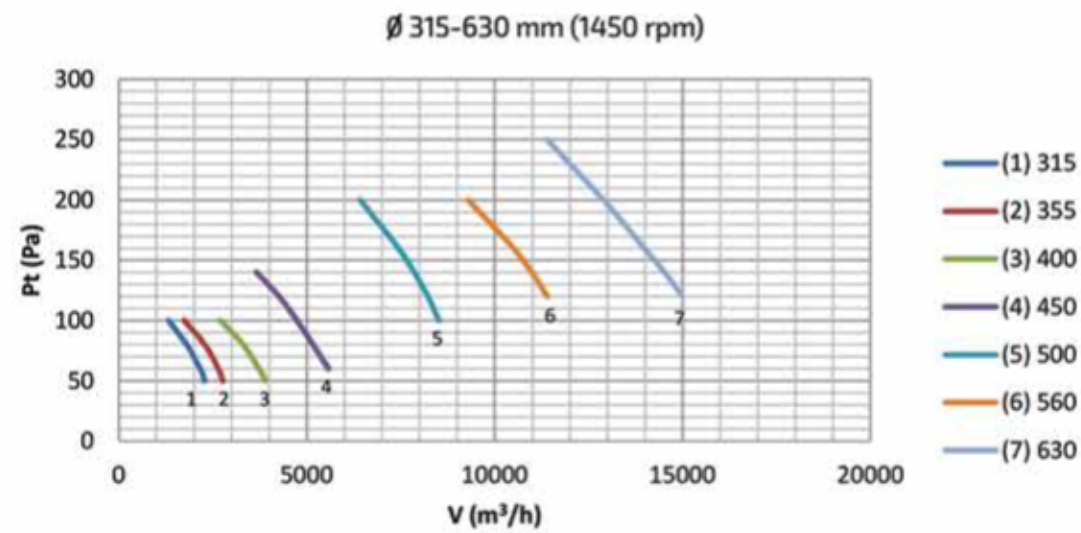
Dimensions

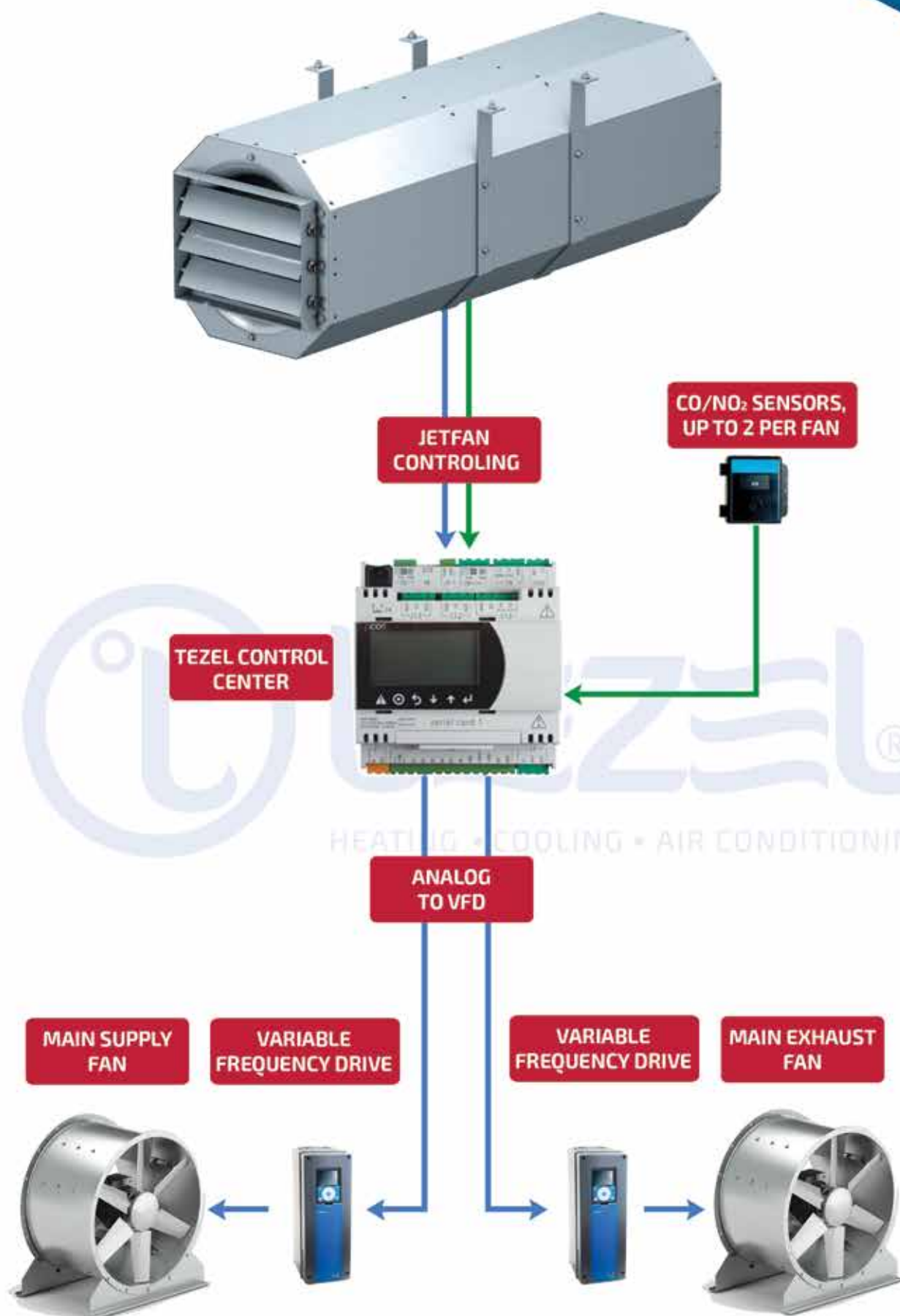
MODEL	A	B	C	D	E
TDEF 315	480	480	1400	500	1450
TDEF 355	530	530	1550	550	1600
TDEF 400	600	600	1700	620	1750
TDEF 450	650	650	1850	670	1900
TDEF 500	700	700	2000	720	2050
TDEF 560	770	770	2150	790	220
TDEF 630	820	820	2300	840	2250



Model Info

PRODUCT CODE	SPEED (Rpm)	THURST (newton)	AIRFLOW (m³/h)	AIR SPEED (m/s)	POWER (kW)	SOUND LEVEL dB(A)
TDEF315	2900/1450	24	4750	16	0,25 / 1,10	75
TDEF355	2900/1450	44	6500	18	0,37 / 1,50	77
TDEF400	2900/1450	64	9000	20	0,50 / 2,20	80
TDEF450	2900/1450	85	12000	21	0,7 / 3,00	85
TDEF500	2900/1450	150	18500	25	0,9 / 4,00	87
TDEF560	2900/1450	240	28000	28	1,25 / 5,50	89
TDEF630	2900/1450	395	36000	33	1,7 / 7,5	92







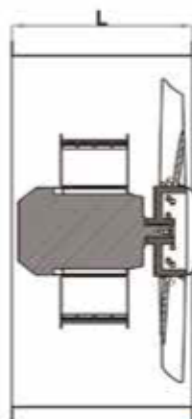
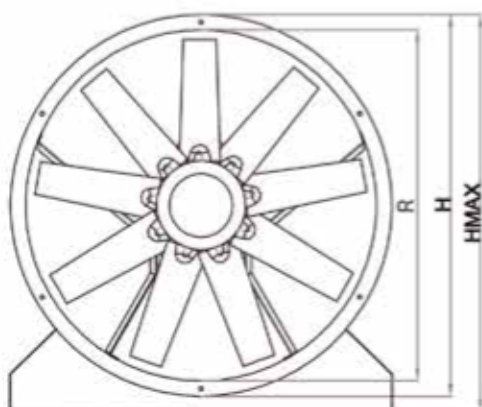
TDEF Efectis

- Its self-flanged structure which displaces little space enables easy assembly to both channels.
- Based on customer requests, we have cup joint-cell type and roof type production.
- Fan wings (fins) are adjustable type and they are produced from high quality aluminium.
- BS729 hot dipping steel sheet body structure feature.
- Based on the physical properties of the environment, it enables vertical and horizontal ways of assembly.
- Accessories such as connection flange, terminal box, assembly assy. and vibration chocks are provided with the device as accessories.
- Dual and single speed engine alternatives are available.

SMOKE EXHAUST FAN

Dimensions

MODEL	R	H	L	HMAX
TDEF400	400	460	400	430
TDEF450	450	510	400	430
TDEF500	500	560	400	430
TDEF560	560	630	400	430
TDEF630	630	700	500	530
TDEF710	710	780	500	530
TDEF800	800	880	560	590
TDEF900	900	970	630	660
TDEF1000	1000	1070	630	660
TDEF1120	1120	1200	710	740
TDEF1250	1250	1330	710	740



Model Info

PRODUCT CODE	POWER (kW)	SPEED (Rpm)	AIRFLOW (m³ / h)				
			200Pa	300Pa	400Pa	500Pa	600Pa
TDEF400	0,75	3000	4.800	3.600	2,500	-	-
	1,1	3000	5.600	4.800	3,700	-	-
	1,5	3000	6.300	5.500	4,500	3,500	-
TDEF450	1,5	3000	8.000	6.800	5,500	4,300	3200
	2,2	3000	9.500	8.500	7,500	6,500	4500
	3	3000	11.500	10.000	9,000	7,000	5000
TDEF500	4	3000	14.500	13.000	12,000	10,500	9000
	5,5	3000	16.000	15.000	13,500	12,500	10500
TDEF560	4	3000	17.000	15.500	14,500	12,500	10000
	7,5	3000	21.500	20.000	19,000	17,500	16500
TDEF630	4	3000	19.000	17.200	15,500	14,000	11500
	5,5	3000	22.000	20.000	19,000	17,000	15000
	7,5	3000	26.000	24.000	22,500	21,500	19000
TDEF710	2,2	1500	15.000	10.000	-	-	-
	3	1500	17.500	14.000	9,000	-	-
	4	1500	20.000	17.500	12,500	-	-
TDEF800	4	1500	25.000	21.500	16,000	12,000	-
	5,5	1500	30.000	25.000	20,000	14,000	-
	7,5	1500	34.000	30.000	26,000	19,000	-
TDEF900	5,5	1500	35.000	30.000	22,500	18,000	14000
	7,5	1500	39.000	36.000	31,000	25,000	18000
	11	1500	47.500	42.000	38,000	32,000	22000
TDEF1000	7,5	1500	46.000	40.000	35,000	27,500	22500
	11	1500	55.000	50.000	45,000	37,500	30000
	15	1500	60.000	55.000	50,000	45,000	37500
	18,5	1500	67.500	65.000	57,500	51,000	45000
TDEF1120	11	1500	57.000	52.000	48,000	42,500	35000
	15	1500	65.000	60.000	57,500	52,000	42500
	18,5	1500	75.000	70.000	67,000	62,000	52000
	22	1500	84.000	80.000	75,000	70,000	62500
TDEF1250	15	1500	70.000	65.000	60,000	52,500	47500
	18,5	1500	80.000	75.000	70,000	65,000	60000
	22	1500	87.500	82.500	77,500	72,500	67500
	30	1500	105.000	96.000	90,000	86,000	82500



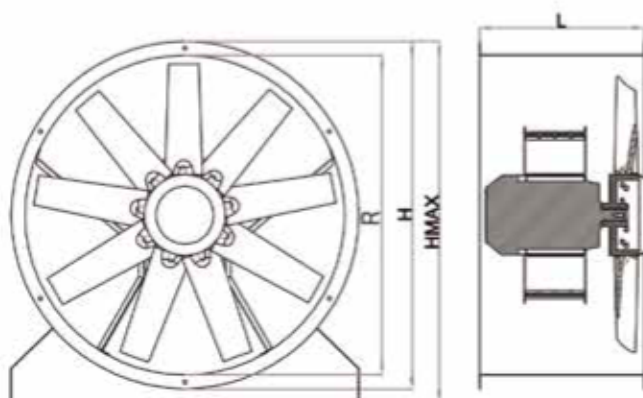
TKAF

- Its self-flanged structure which displaces little space enables easy assembly to both channels.
- Based on customer requests, we have cup joint- cell type and roof type production.
- Fan wings (fins) are adjustable type and they are produced from high quality aluminium.
- BS729 hot dipping steel sheet body structure feature.
- Based on the physical properties of the environment, it enables vertical and horizontal ways of assembly.
- Accessories such as connection flange, terminal box, assembly assy. and vibration chocks are provided with the device as accessories.
- Dual and single speed engine alternatives are available.

AXIAL FAN

Dimensions

MODEL	R	H	L	HMAX
TKAF400	400	460	400	430
TKAF450	450	510	400	430
TKAF500	500	560	400	430
TKAF560	560	630	400	430
TKAF630	630	700	500	530
TKAF710	710	780	500	530
TKAF800	800	880	560	590
TKAF900	900	970	630	660
TKAF1000	1000	1070	630	660
TKAF1120	1120	1200	710	740
TKAF1250	1250	1330	710	740



Model Info

PRODUCT CODE	POWER (kW)	SPEED (Rpm)	AIRFLOW (m³ / h)				
			200Pa	300Pa	400Pa	500Pa	600Pa
TKAF400	0,75	3000	4.800	3.600	2,500	-	-
	1,1	3000	5.600	4.800	3,700	-	-
	1,5	3000	6.300	5.500	4,500	3,500	-
TKAF450	1,5	3000	8.000	6.800	5,500	4,300	3200
	2,2	3000	9.500	8.500	7,500	6,500	4500
	3	3000	11.500	10.000	9,000	7,000	5000
TKAF500	4	3000	14.500	13.000	12,000	10,500	9000
	5,5	3000	16.000	15.000	13,500	12,500	10500
TKAF560	4	3000	17.000	15.500	14,500	12,500	10000
	7,5	3000	21.500	20.000	19,000	17,500	16500
TKAF630	4	3000	19.000	17.200	15,500	14,000	11500
	5,5	3000	22.000	20.000	19,000	17,000	15000
	7,5	3000	26.000	24.000	22,500	21,500	19000
TKAF710	2,2	1500	15.000	10.000	-	-	-
	3	1500	17.500	14.000	9,000	-	-
	4	1500	20.000	17.500	12,500	-	-
TKAF800	4	1500	25.000	21.500	16,000	12,000	-
	5,5	1500	30.000	25.000	20,000	14,000	-
	7,5	1500	34.000	30.000	26,000	19,000	-
TKAF900	5,5	1500	35.000	30.000	22,500	18,000	14000
	7,5	1500	39.000	36.000	31,000	25,000	18000
	11	1500	47.500	42.000	38,000	32,000	22000
TKAF1000	7,5	1500	46.000	40.000	35,000	27,500	22500
	11	1500	55.000	50.000	45,000	37,500	30000
	15	1500	60.000	55.000	50,000	45,000	37500
	18,5	1500	67.500	65.000	57,500	51,000	45000
TKAF1120	11	1500	57.000	52.000	48,000	42,500	35000
	15	1500	65.000	60.000	57,500	52,000	42500
	18,5	1500	75.000	70.000	67,000	62,000	52000
	22	1500	84.000	80.000	75,000	70,000	62500
TKAF1250	15	1500	70.000	65.000	60,000	52,500	47500
	18,5	1500	80.000	75.000	70,000	65,000	60000
	22	1500	87.500	82.500	77,500	72,500	67500
	30	1500	105.000	96.000	90,000	86,000	82500



ELECTROSTATIC FILTER
KITCHEN FAN UNIT

Model Info

PRODUCT CODE	AIRFLOW (m³/h)	PRESSURE (Pa)	POWER (kW)	FREQUENCY (Hz)	VOLTAGE (V)	SOUND LEVEL dB(A)
THMF-E50	5000	300	1,5	50	380	70
THMF-E75	7500	400	2,2	50	380	72
THMF-E100	10000	500	4	50	380	72
THMF-E150	15000	600	7,5	50	380	75
THMF-E225	22500	700	11	50	380	78



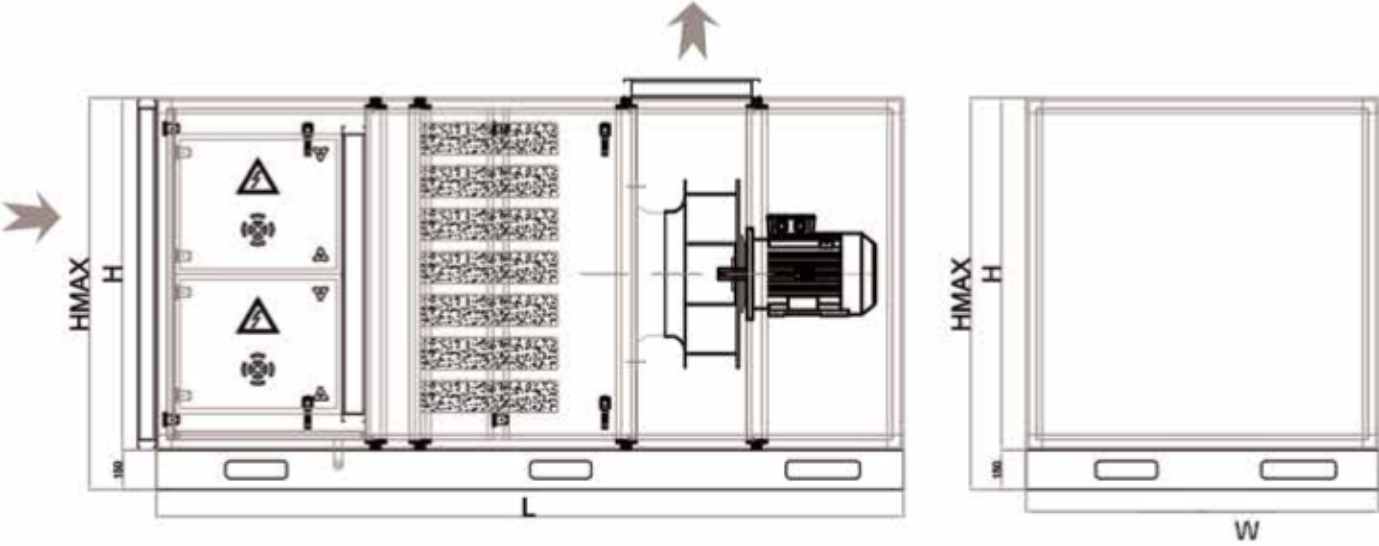
VFDs allow you to match the speed of the motor-driven equipment to the load requirement. There is no other method of AC electric motor control that allows you to accomplish this.

THMF-E

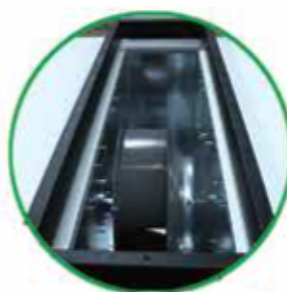
- With our devices, make . Adhered to the air; Toxic chemical waste gas, oil, soot, odour and smoke molecules are loaded on the ionisation section with high voltage electric charge and adhered to the charged collecting surfaces in the collector sections like a magnet.
- Collective filter is easily removed from its place and after being washed and cleaned, it is mounted to its housing when dry. It is ready and functioning when the device is operated.
- Cells consist of 50 mm rockwool insulated double-walled, electrostatic powder painted panels.
- 40" aluminium profiles exclusively rolled for our company are used.
- Sound volume is very low thanks to double-wall panels.
- High efficiency NICOTRA plug fans with high efficiency selected on computer environment with special selection program are used.
- Engine air flow is left out thus; it is not affected from oily and hot exhaust air.

Dimensions

MODEL	L	H	W	HMAX
THMF-E50	2650	750	1350	900
THMF-E75	2650	750	1950	900
THMF-E100	2650	1350	1350	1500
THMF-E150	2860	1350	1950	1500
THMF-E225	2860	1950	1950	2100



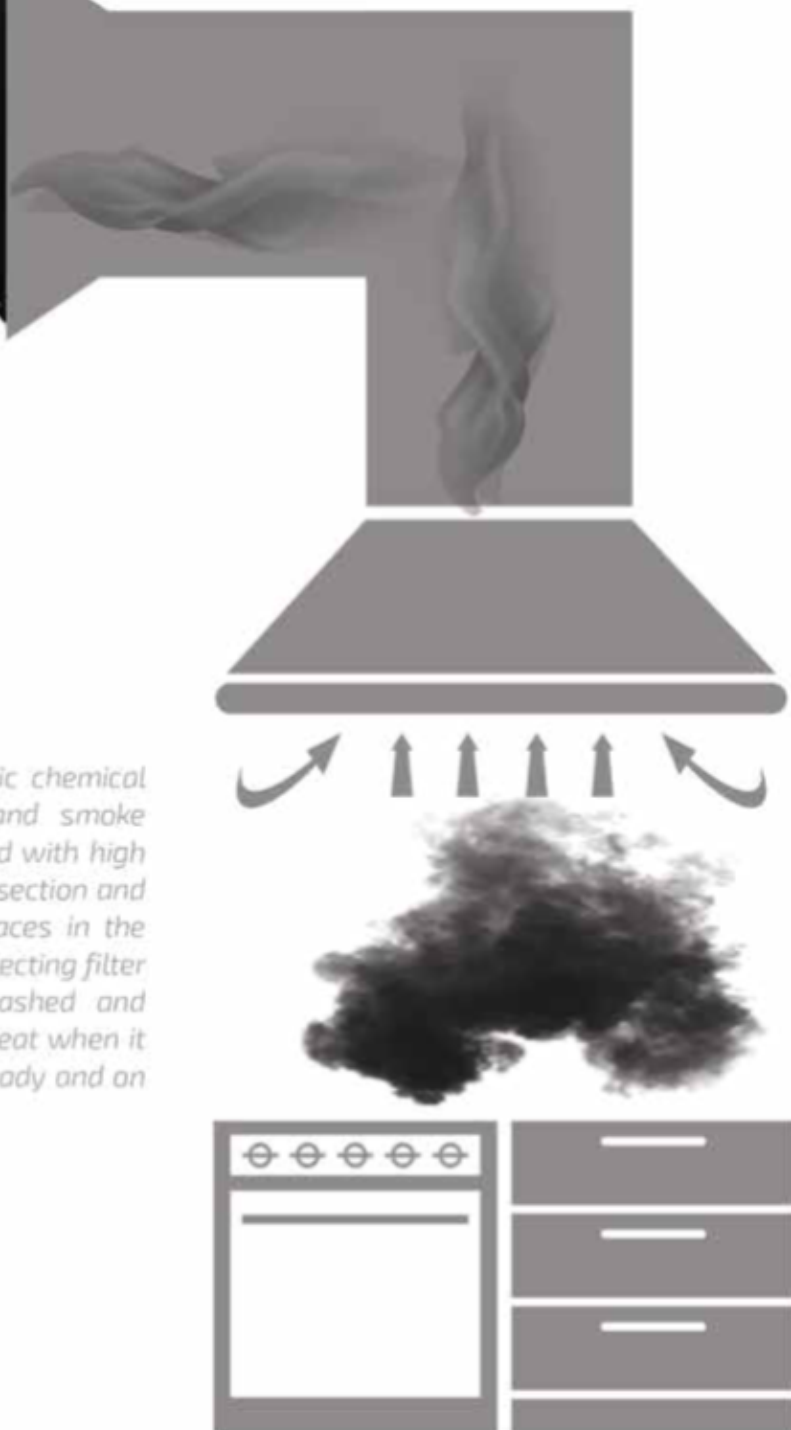
DIRECT COUPLE FAN



ODOR HOLDER FILTERS



ELECTROSTATIC FILTER



With our Brand Devices, the toxic chemical waste gas, oil, grease, soot, odor and smoke molecules adhered on the air are loaded with high voltage electric charge in the ionization section and adhered to the counter-collecting surfaces in the collector sections like a magnet. The collecting filter is easily removed from its place, washed and cleaned, and then installed back to its seat when it dries. When the device is started, it is ready and on duty.



KITCHEN FAN UNIT

Model Info

PRODUCT CODE	VOLTAGE (V)	FREQUENCY (Hz)	POWER (kW)	SPEED (Rpm)	SOUND LEVEL dB(A)	AIRFLOW (m ³ /h)	PRESSURE (Pa)
THMF35	380	50	0,75	1450	73,00	2.000	200
THMF40	380	50	0,75	1450	75,00	3.000	200
THMF45	380	50	1,1	1450	77,00	5.000	200
THMF50	380	50	1,5	1450	78,00	7.000	300
THMF56	380	50	2,2	1450	80,00	10.000	400
THMF63	380	50	4	1450	80,00	15.350	500
THMF71	380	50	7,5	1450	80,00	24.000	500



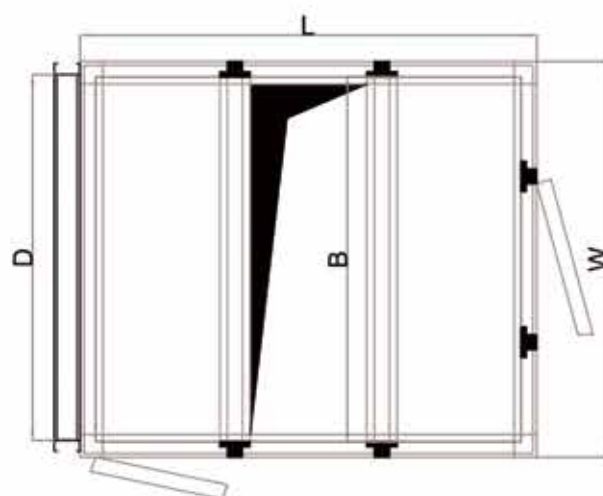
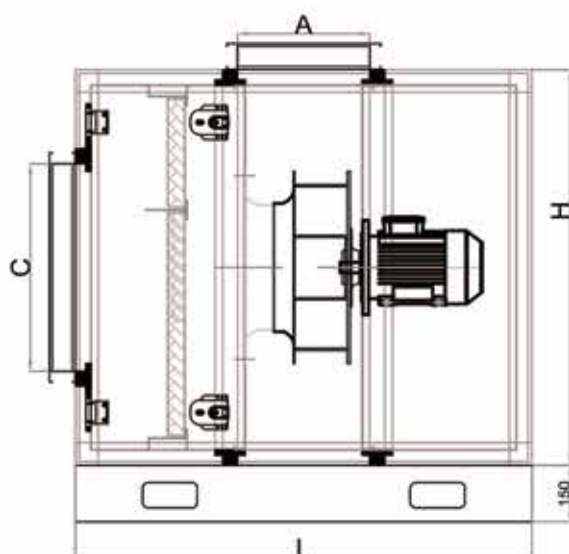
VFDs allow you to match the speed of the motor-driven equipment to the load requirement. There is no other method of AC electric motor control that allows you to accomplish this.

THMF

- Cells consist of 50 mm rock-wool insulated double-walled, electrostatic powder painted panels.
- 40" aluminium profiles exclusively rolled for our company are used.
- Sound volume is very low thanks to double-wall panels.
- High efficiency; NICOTRA plug fans with high efficiency selected on computer environment with special selection program are used.
- Engine air flow is left out thus, it is not affected from oily and hot exhaust air.
- Metal filter is used on demand.
- Manufactured in line with TSE 60335-1 and TSE 60335-2-80 standards.

Dimensions

MODEL	L	H	W	A	B	C	D
THMF35	1030	750	750	275	670	400	400
THMF40	1100	750	750	300	670	450	450
THMF45	1135	750	1050	325	970	500	500
THMF50	1210	1050	1050	350	970	550	970
THMF56	1230	1050	1050	370	970	550	970
THMF63	1460	1350	1350	400	1270	650	1270
THMF71	1650	1650	1650	425	1570	700	1570





KITCHEN EXHAUST FAN

Model Info

PRODUCT CODE	VOLTAGE (V)	FREQUENCY (Hz)	POWER (kW)	SPEED (Rpm)	SOUND LEVEL dB (A)	AIRFLOW (m³ / h)	PRESSURE (Pa)
TMF35	380	50	1500	1500	72	2500	300
TMF40	380	50	1500	1500	74	3500	300
TMF45	380	50	1500	1500	76	5000	300
TMF50	380	50	1500	1500	78	7.500	300
TMF56	380	50	1500	1500	78	10.000	300
	380	50	1500	1500	80	12.500	300
TMF63	380	50	1500	1500	80	15.000	300
	380	50	1500	1500	82	17.500	300
	380	50	1500	1500	82	20.000	300



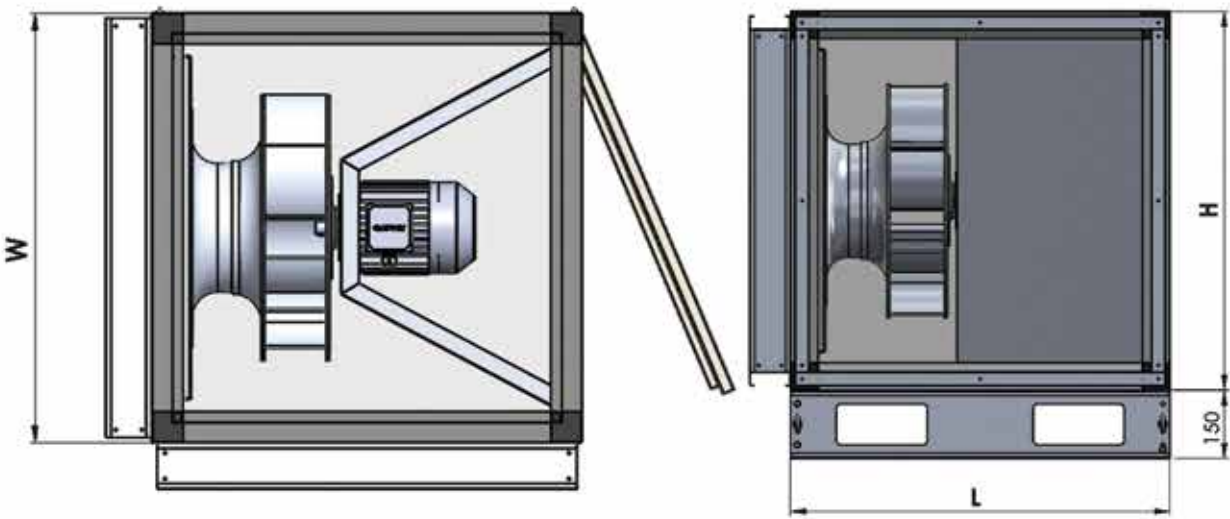
VFDs allow you to match the speed of the motor-driven equipment to the load requirement. There is no other method of AC electric motor control that allows you to accomplish this.

TMF

- Our Cell-type Kitchen Fans are manufactured in accordance with the TSI 60335-1 and TSI 60335-2-80 standards as five models at the sizes of THMF35, THMF40, THMF45, THMF50, THMF56, THMF63, and THMF71 and has between 1500m³/h - 27500m³/h airflow. Highly productive NICOTRA branded plug fans selected with the special selection program in computer environment are used.
- Except for the motorized airflow, our Cell-type Kitchen Fans are designed by the engineers in order to meet the exhaust requirements of the hot and oily airflow coming from the industrial and commercial kitchen hoods.
- Our fans, which are put at the disposal of our customers after flow rate, pressure, decibel and heating tests in our laboratories, present marvelous solutions for the industrial and commercial kitchens.

Dimensions

PRODUCT CODE	LENGHT (mm)	WIDTH (mm)	HEIGHT (mm)
TMP35	760	760	760
TMF40	830	830	830
TMF45	900	900	900
TMF50	970	970	970
TMF56	1040	1040	1040
TMF63	1110	1110	1110





VENTILATION UNIT

Model Info

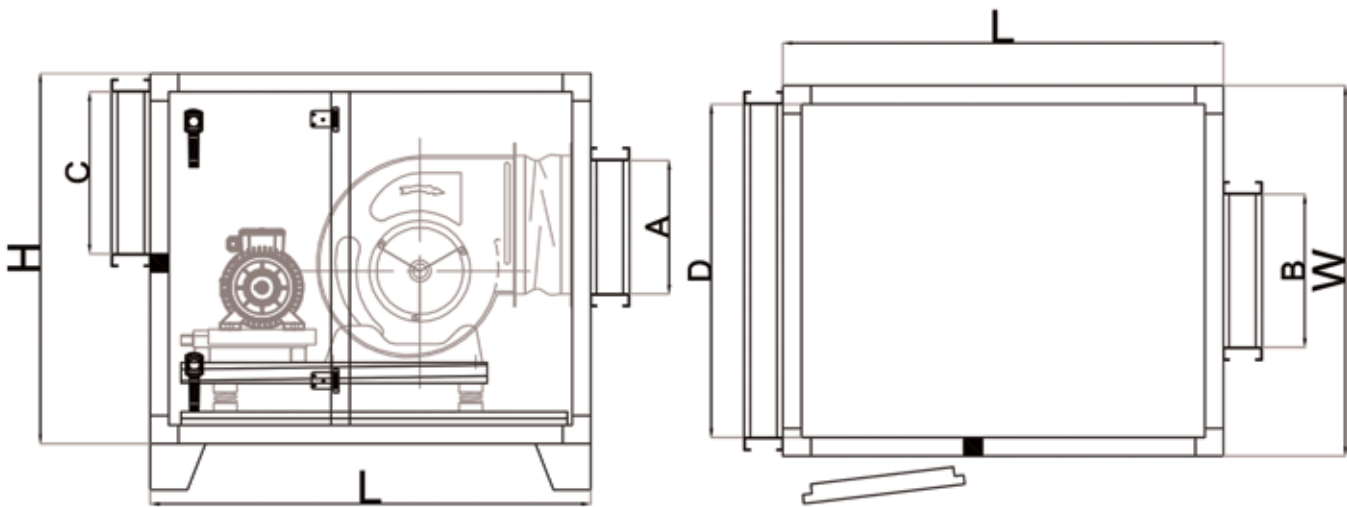
PRODUCT CODE	VOLTAGE (V)	FREQUENCY (Hz)	POWER (kW)	SOUND LEVEL dB(A)	AIRFLOW (m ³ /h)	PRESSURE (Pa)
THF7	380	50	0.75	73.00	2500	250
THF9	380	50	1.1	75.00	3500	350
THF10	380	50	1.5	77.00	5000	350
THF12	380	50	2.2	78.00	7500	350
THF15	380	50	3	80.00	10000	350
THF18	380	50	4	82.00	15000	350

THF

- Cells consist of 50 mm rock-wool insulated double-walled, electrostatic powder painted panels.
- 40" aluminium profiles exclusively rolled for our company are used.
- Sound volume is very low thanks to double-wall panels.
- Thanks to its compact design and easily replaceable suction/lift-force features, they can perform aspiration and ventilation functions.
- Full impermeability/water tightness can be maintained by means of a special sealing system
- Manufactured in line with TSE 60335-1 and TSE 60335-2-80 standards.

Dimensions

MODEL	L	H	W	A	B	C	D
THF7	820	650	650	210	230	250	570
THF9	900	700	700	260	300	300	620
THF10	950	800	800	290	330	350	720
THF12	1050	900	900	340	395	420	820
THF15	1150	1000	1000	405	470	500	920





VENTILATION UNIT

Model Info

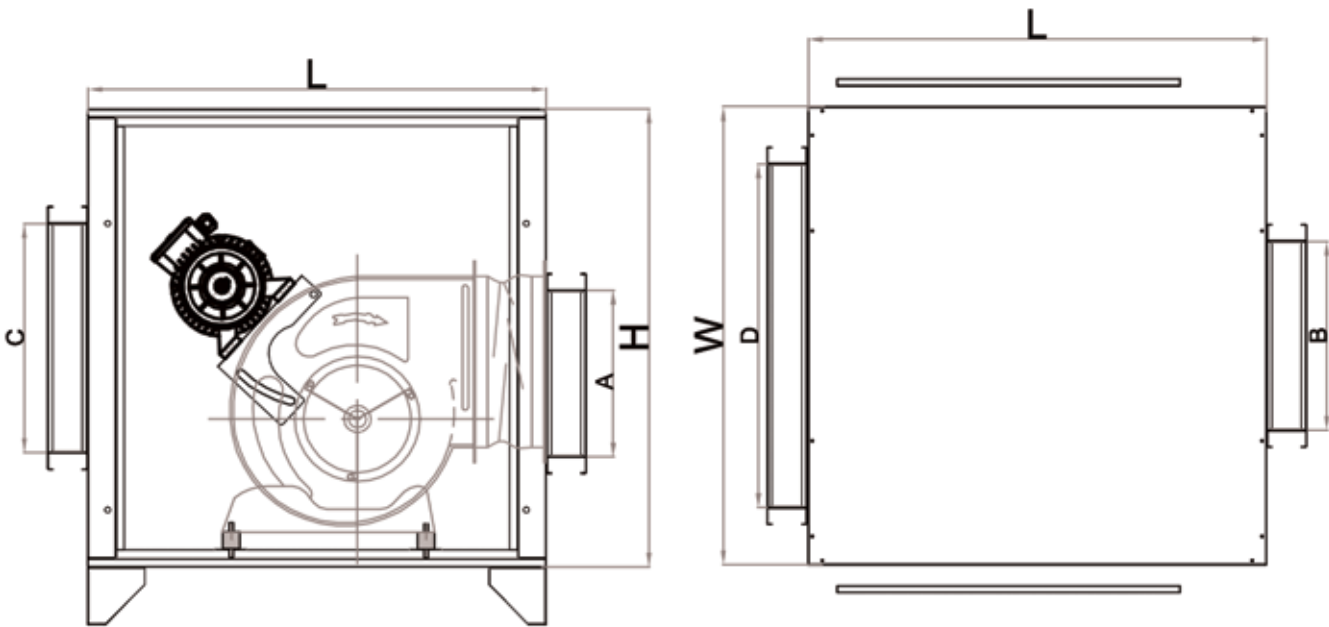
PRODUCT CODE	VOLTAGE (V)	FREQUENCY (Hz)	POWER (kW)	SOUND LEVEL dB(A)	AIRFLOW (m ³ /h)	PRESSURE (Pa)
TEH7	380	50	0.75	73.00	2500	250
TEH9	380	50	1.1	75.00	3500	350
TEH10	380	50	1.5	77.00	5000	350
TEH12	380	50	2.2	78.00	7500	350
TEH15	380	50	3	80.00	10000	350

TEH

- Panels are manufactured as single walled and they are coated with 10 mm. acoustic insulation.
- They consist of electrostatic powder painted panels.
- They offer an economic solution thanks to its no-profile structure with no walls.
- Thanks to its compact design and easily replaceable suction/lift-force features, they can perform aspiration and ventilation functions.
- Full impermeability/water tightness can be maintained by means of a special sealing system
- Manufactured in line with TSE 60335-1 and TSE 60335-2-80 standards.

Dimensions

MODEL	L	H	W	A	B	C	D
TEH7	600	600	600	210	230	300	450
TEH9	700	700	700	260	300	300	500
TEH10	800	800	800	290	330	400	600
TEH12	900	900	900	340	395	500	700
TEH15	950	950	950	405	470	600	800





DUCT TYPE KITCHEN FAN

Model Info

ÜRÜN KODU	VOLTAGE (V)	FREQUENCY (Hz)	POWER (kW)	SPEED (Rpm)	SOUND LEVEL dB(A)	AIRFLOW (m ³ /h)			
						100Pa	200Pa	300Pa	400Pa
TKMF35	380	50	0,75	1450	73,00	2990	2498	1820	-
TKMF40	380	50	0,75	1450	75,00	4304	3792	3167	2275
TKMF45	380	50	1,1	1450	77,00	-	5628	5036	4246
TKMF50	380	50	1,5	1450	78,00	-	8306	7690	6950
TKMF56	380	50	2,2	1450	80,00	-	12032	11350	10600



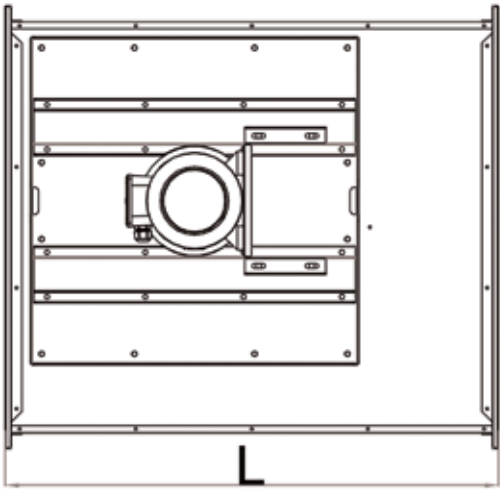
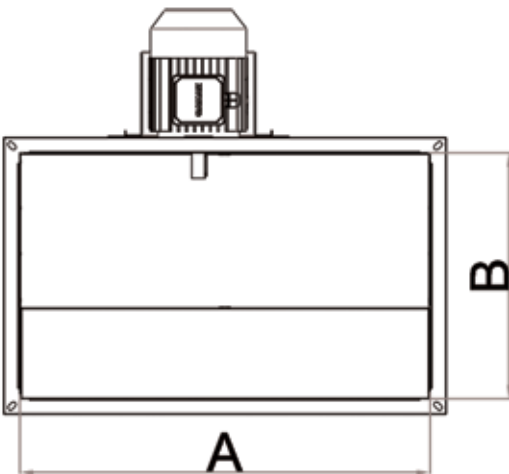
VFDs allow you to match the speed of the motor-driven equipment to the load requirement. There is no other method of AC electric motor control that allows you to accomplish this.

TKMF

- Body is manufactured from galvanized steel.
- It was designed and produced to be used with rectangular channels.
- High efficiency NICOTRA plug fans with high efficiency selected on computer environment with special selection program are used.
- Engine air flow is left out thus; it is not affected from oily and hot exhaust air.
- Metal filter is used on demand.
- Manufactured in line with TSE 60335-1 and TSE 60335-2-80 standards.

Dimensions

MODEL	A	B	L
TKMF35	600	400	750
TKMF40	700	450	800
TKMF45	750	450	900
TKMF50	800	500	900
TKMF56	900	550	1000





DUCT TYPE EXPROOF FAN

Model Info

PRODUCT CODE	VOLTAGE (V)	FREQUENCY (Hz)	POWER (kW)	SPEED (Rpm)	SOUND LEVEL dB(A)	AIRFLOW (m ³ /h)			
						100Pa	200Pa	300Pa	400Pa
TKMF-EX35	380	50	0,75	1450	73,00	2990	2498	1820	-
TKMF-EX40	380	50	0,75	1450	75,00	4304	3792	3167	2275
TKMF-EX45	380	50	1,1	1450	77,00	-	5628	5036	4246
TKMF-EX50	380	50	1,5	1450	78,00	-	8306	7690	6950
TKMF-EX56	380	50	2,2	1450	80,00	-	12032	11350	10600



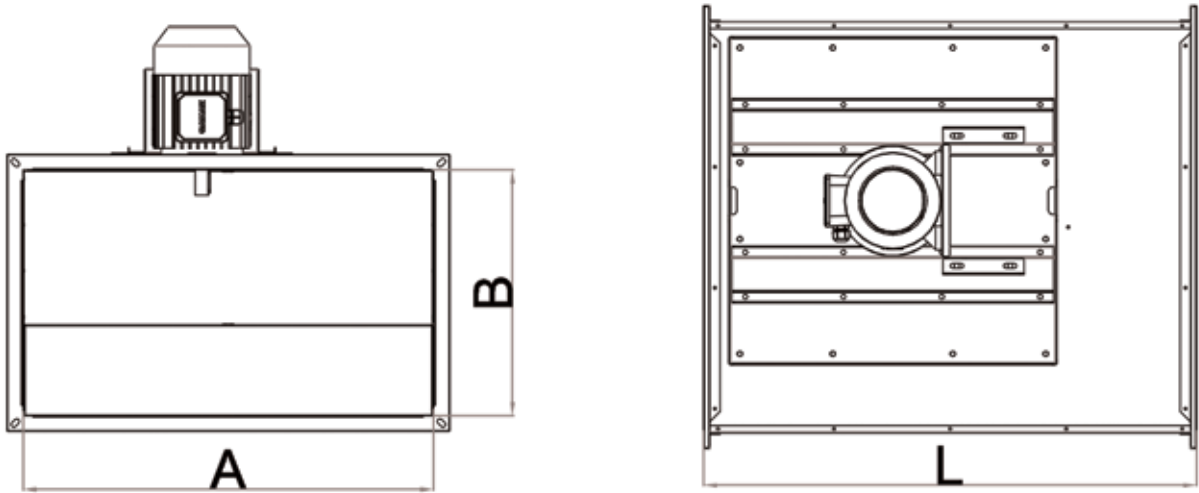
VFDs allow you to match the speed of the motor-driven equipment to the load requirement. There is no other method of AC electric motor control that allows you to accomplish this.

TKMF-EX

- ATEX certified motors and fans designed for explosive environments are used.
- Body is manufactured from galvanized steel.
- It was designed and produced to be used with rectangular channels.
- High efficiency NICOTRA plug fans with high efficiency selected on computer environment with special selection program are used.
- Engine air flow is left out thus, it is not affected from oily and hot exhaust air.
- Manufactured in line with TSE 60335-1 and TSE 60335-2-80 standards.

Dimensions

MODEL	A	B	L
TKMF35	600	400	750
TKMF40	700	450	800
TKMF45	750	450	900
TKMF50	800	500	900
TKMF56	900	550	1000





ROOF FAN WITH HORIZONTAL
THROW MOTOR OUT OF
AIR FLOW

Model Info

PRODUCT CODE	VOLTAGE (V)	FREQUENCY (Hz)	POWER (kW)	SPEED (Rpm)	SOUND LEVEL dB(A)	AIRFLOW (m ³ /h)			
						100Pa	200Pa	300Pa	400Pa
TBF35	380	50	0,75	1450	73,00	2990	2498	1820	-
TBF40	380	50	0,75	1450	75,00	4304	3792	3167	2275
TBF45	380	50	1,1	1450	77,00	-	5628	5036	4246
TBF50	380	50	1,5	1450	78,00	-	8306	7690	6950
TBF56	380	50	2,2	1450	80,00	-	12032	11350	10600
TBF63	380	50	4	1450	80,00	-	-	16980	16200



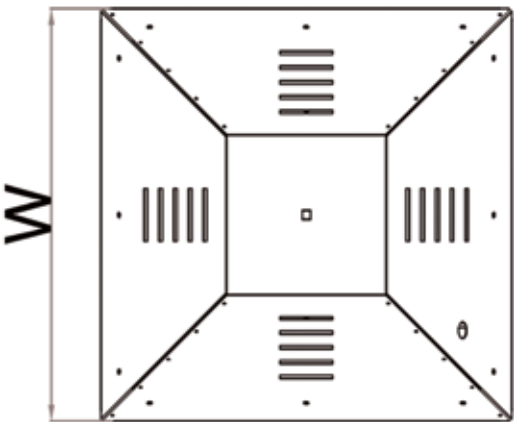
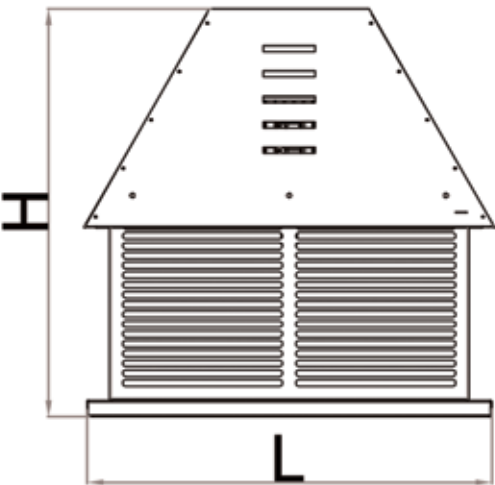
VFDs allow you to match the speed of the motor-driven equipment to the load requirement. There is no other method of AC electric motor control that allows you to accomplish this.

TBF

- Body is manufactured from galvanized steel plate and it ia RAL 9002 Pelectro-static powder painted.
- High efficiency NICOTRA plug fans with high efficiency selected on computer environment with special selection program are used.
- Engine air flow is left out thus, it is not affected from oily and hot exhaust air.
- Overheating of the engine is prevented by means of the air entry grills at the roof entry.
- Its compact structure enables easy and convenient assembly.
- By means of its removable top, easy access and intervention to the engine and fan is possible.
- By means of its protective sheet plate, any external intervention from foreign objects which may contact with the fan while the engine is working will be prevented.

Dimensions

MODEL	H	L	W
TBF35	525	470	470
TBF40	680	570	570
TBF45	625	620	620
TBF50	680	750	750
TBF56	730	800	800
TBF63	765	950	950





ROOF FAN WITH VERTICAL THROW

Model Info

PRODUCT CODE	VOLTAGE (V)	FREQUENCY (Hz)	POWER (kW)	SPEED (Rpm)	SOUND LEVEL dB(A)	AIRFLOW (m ³ /h)			
						100Pa	200Pa	300Pa	400Pa
TDBF35	380	50	0,75	1450	73,00	2990	2498	1820	-
TDBF40	380	50	0,75	1450	75,00	4304	3792	3167	2275
TDBF45	380	50	1,1	1450	77,00	-	5628	5036	4246
TDBF50	380	50	1,5	1450	78,00	-	8306	7690	6950
TDBF56	380	50	2,2	1450	80,00	-	12032	11350	10600
TDBF63	380	50	4	1450	80,00	-	-	16980	16200



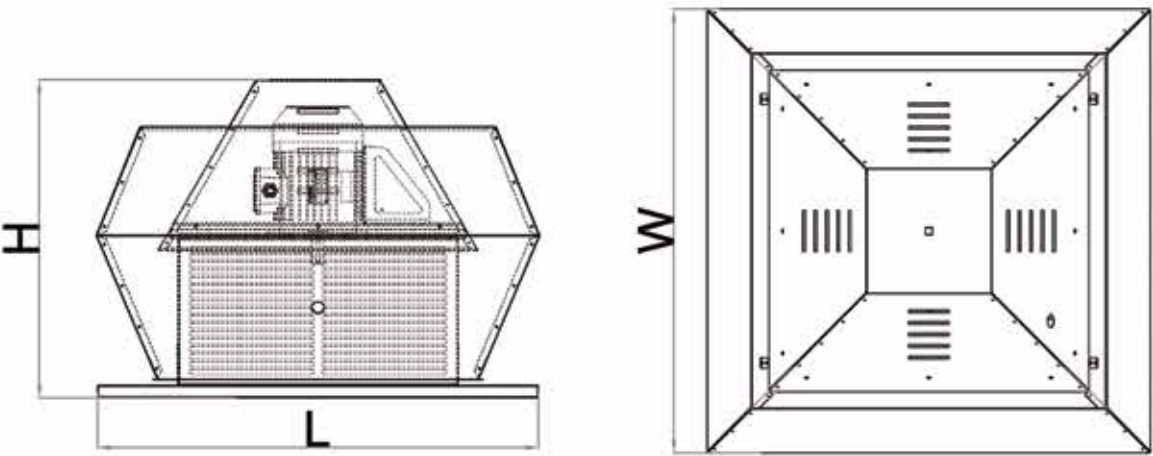
VFDs allow you to match the speed of the motor-driven equipment to the load requirement. There is no other method of AC electric motor control that allows you to accomplish this.

TDBF

- Body is manufactured from galvanized steel plate and it ia RAL 9002 Pelectrostatic powder painted.
- High efficiency NICOTRA plug fans with high efficiency selected on computer environment with special selection program are used.
- Engine air flow is left out thus, it is not affected from oily and hot exhaust air.
- Overheating of the engine is prevented by means of the air entry grills at the roof entry.
- Its compact structure enables easy and convenient assembly.
- By means of its removable top, easy access and intervention to the engine and fan is possible.
- By means of its protective sheet plate, any external intervention from foreign objects which may contact with the fan while the engine is working will be prevented.

Dimensions

MODEL	H	L	W
TDBF35	525	720	720
TDBF40	580	820	820
TDBF45	625	865	865
TDBF50	680	750	750
TDBF56	730	800	800
TDBF63	765	950	950





RECTANGLE AIR DUCT TYPE FAN

Model Info

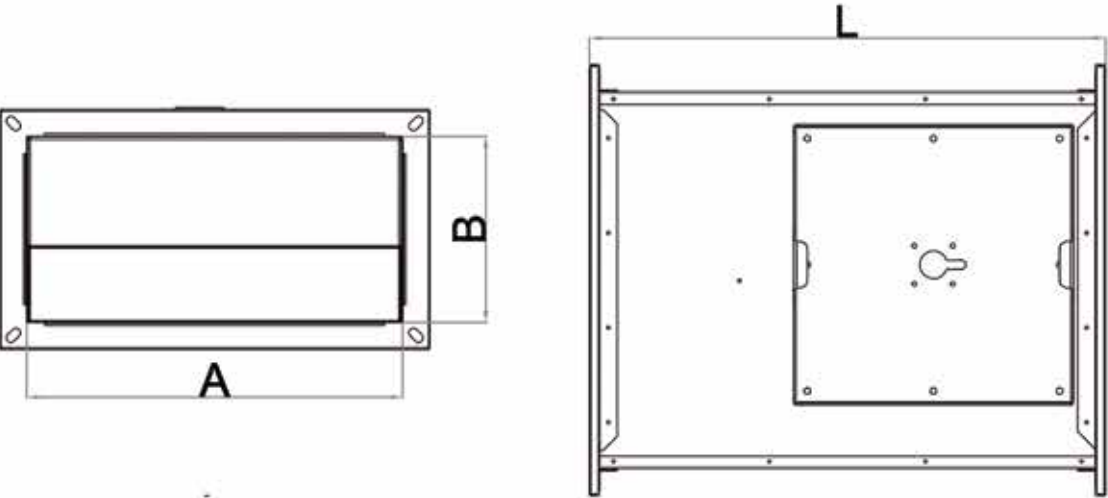
PRODUCT CODE	VOLTAGE (V)	FREQUENCY (Hz)	POWER (W)	SPEED (Rpm)	SOUND LEVEL dB(A)	AIRFLOW (m ³ /h)
TDKF3015	220	50	66	2300	64,00	560
TDKF4020A	220	50	105	2200	66,00	1050
TDKF4020B	220	50	150	2440	72,00	1350
TDKF5025	220	50	195	2020	70,00	1750
TDKF6030	220	50	145	1390	63,00	2000
TDKF6035A	220	50	190	1350	61,00	2500
TDKF6035B	220	50	500	1380	65,00	4100
TDKF7040	220	50	540	1290	68,00	5600
TDKF8050	380	50	1300	1300	75,00	9000
TDKF10050	380	50	1800	1250	77,00	10000

TDKF

- Body is manufactured from galvanized steel.
- It was designed to be used with rectangular channels
- A special level of water-tightness was aimed at with its special design.
- By means of its aerodynamic casing construction, and radial fan with backward curved blades, it operates with high efficiency and at lower decibels
- Manufactured in line with TSE 60335-1 and TSE 60335-2-80 standards.

Dimensions

MODEL	A	B	L
TDKF3015	300	150	450
TDKF4020A	400	200	550
TDKF4020B	400	200	550
TDKF5025	500	250	650
TDKF6030	600	300	650
TDKF6035A	600	350	650
TDKF6035B	600	350	650
TDKF7040	700	400	750
TDKF8050	800	500	850





ROOF FAN WITH HORIZONTAL THROW

Model Info

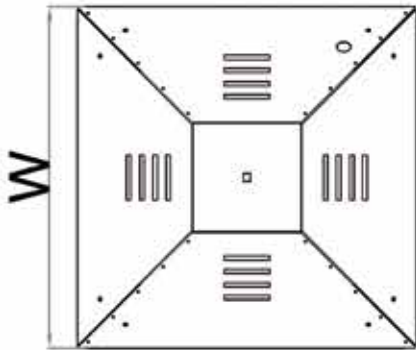
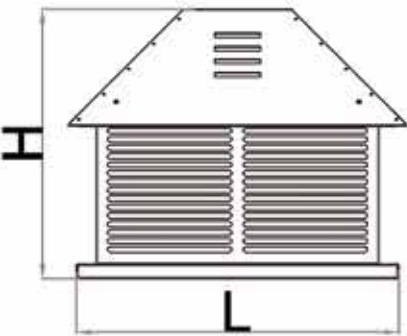
PRODUCT CODE	VOLTAGE (V)	FREQUENCY (Hz)	POWER (W)	SPEED (Rpm)	SOUND LEVEL dB(A)	AIRFLOW (m³/h)
TCF190	220	50	66	2300	64,00	560
TCF225	220	50	105	2200	66,00	1050
TCF250	220	50	150	2440	72,00	1350
TCF280	220	50	195	2020	70,00	1750
TCF315	220	50	145	1390	63,00	2000
TCF355	220	50	190	1350	61,00	2500
TCF400	220	50	500	1380	65,00	4100
TCF450	220	50	540	1290	68,00	5600
TCF500	380	50	1300	1300	75,00	9000
TCF560	380	50	1800	1250	77,00	10000

TCF

- Body is manufactured from galvanized steel plate and it is RAL 9002 Pelelectrostatic powder painted.
- Our fans which we modelled on solidworks program are processed automatically on CNC benches and they are rendered ready for assembly.
- By means of its aerodynamic casing construction, and radial fan with backward curved blades, it operates with high efficiency and at lower decibels
- Overheating of the engine is prevented by means of the air entry grills at the roof entry.
- Its compact structure enables easy and convenient assembly.
- By means of its removable top, easy access and intervention to the engine and fan is possible.
- By means of its protective sheet plate, any external intervention from foreign objects which may contact with the fan while the engine is working will be prevented.

Dimensions

MODEL	L	W	H
TCF225	270	380	380
TCF250	280	380	380
TCF280	280	415	415
TCF355	360	470	470
TCF400	470	570	570
TCF450	530	620	620
TCF500	530	670	670





ROOF FAN WITH VERTICAL THROW

Model Info

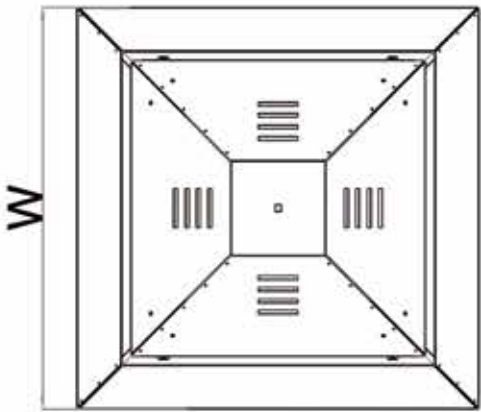
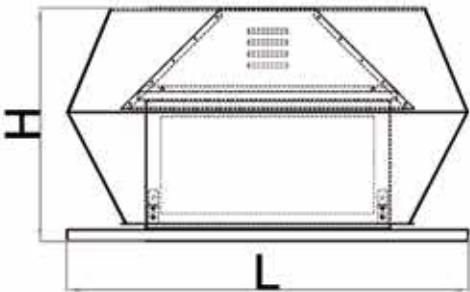
PRODUCT CODE	VOLTAGE (V)	FREQUENCY (Hz)	POWER (W)	SPEED (Rpm)	SOUND LEVEL dB(A)	AIRFLOW (m ³ /h)
TDCF190	220	50	66	2300	64,00	560
TDCF225	220	50	105	2200	66,00	1050
TDCF250	220	50	150	2440	72,00	1350
TDCF280	220	50	195	2020	70,00	1750
TDCF315	220	50	145	1390	63,00	2000
TDCF355	220	50	190	1350	61,00	2500
TDCF400	220	50	500	1380	65,00	4100
TDCF450	220	50	540	1290	68,00	5600
TDCF500	380	50	1300	1300	75,00	8000
TDCF560	380	50	1800	1250	77,00	10000

TDCF

- Body is manufactured from galvanized steel plate and it is RAL 9002 Pelectrostatic powder painted.
- Our fans which we modelled on solidworks program are processed automatically on CNC benches and they are rendered ready for assembly.
- By means of its aerodynamic casing construction, and radial fan with backward curved blades, it operates with high efficiency and at lower decibels
- Overheating of the engine is prevented by means of the air entry grills at the roof entry.
- Its compact structure enables easy and convenient assembly.
- By means of its removable top, easy access and intervention to the engine and fan is possible.
- By means of its protective sheet plate, any external intervention from foreign objects which may contact with the fan while the engine is working will be prevented.

Dimensions

MODEL	H	L	W
TDCF225	270	600	600
TDCF250	280	600	600
TDCF280	280	635	635
TDCF355	360	720	720
TDCF400	475	820	820
TDCF450	530	865	865
TDCF500	530	920	920





ACOUSTIC FAN DUCT TYPE

Model Info

PRODUCT CODE	VOLTAGE (V)	FREQUENCY (HZ)	POWER (kW)	CURRENT (A)	SPEED (Rpm)	SOUND LEVEL dB(A)	AIRFLOW (m ³ /h)	WEIGHT (kg)
TAKF 190	220	50	22	0.10	2300	64.00	560	9.00
TAKF 225	220	50	150	0.7	220	66.00	1050	12.00
TAKF 250	220	50	200	0.9	2440	72.00	1350	13.00
TAKF 280	220	50	250	1.1	2020	70.00	1750	14.00
TAKF 355	220	50	135	0.6	1390	63.00	2000	15.00
TAKF 400	220	50	165	0.75	1350	61.00	2500	21.00
TAKF 450	220	50	400	1.5	1380	65.00	4100	34.00
TAKF 500	220	50	550	2.5	1290	68.00	5600	42.00

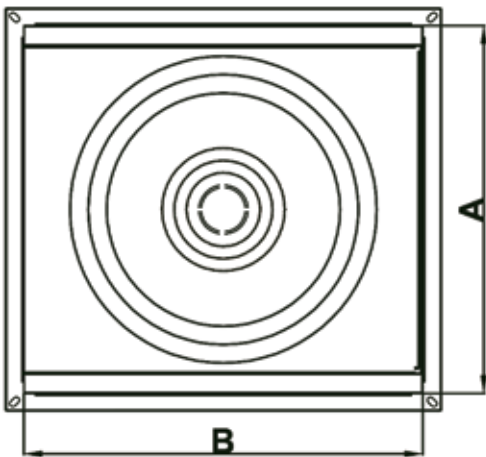
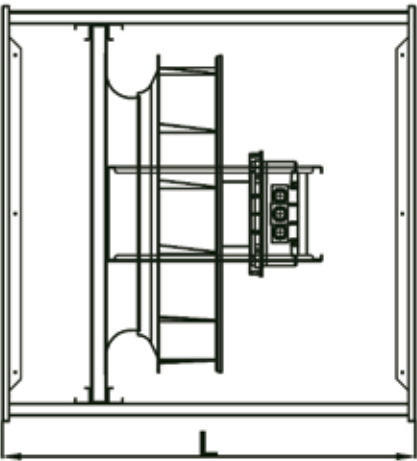
TAKF

Our acoustic insulated duct fans are produced in accordance with TSE EN 60335-1 and TSE EN 60335-2-80 standards in the range of 560-10000 m³ / h.

- The case is made of galvanized steel plate.
- 10mm Acoustic insulation on the inside of the inner wall thanks to very low noise level.
- The fans we model in the solidworks program are processed and ready for assembly by automatic CNC machines.
- Aerodynamic frame structure, and the external rotor fan used in high efficiency and low decibel work.
- Designed for use with rectangular ducts
- Thanks to the intervention cover, it can be intervened without dismantling the motor.
- Fan chassis is manufactured with flange.
- 50 micron silicon tapes on the edges of the enclosure is intended to have a leak-proof structure.

Dimensions

MODEL	A	B	L
TAKF 190	300	350	400
TAKF 225	300	350	400
TAKF 250	350	400	500
TAKF 280	400	500	500
TAKF 355	450	500	500
TAKF 400	500	550	550
TAKF 450	550	600	600
TAKF 500	600	650	650





RECTANGLE AIR DUCT TYPE FAN



ACOUSTIC FAN
DUCT TYPE

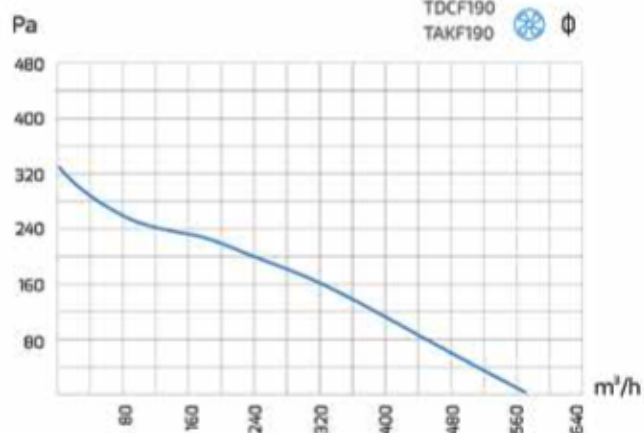


ROOF FAN WITH
HORIZONTAL THROW

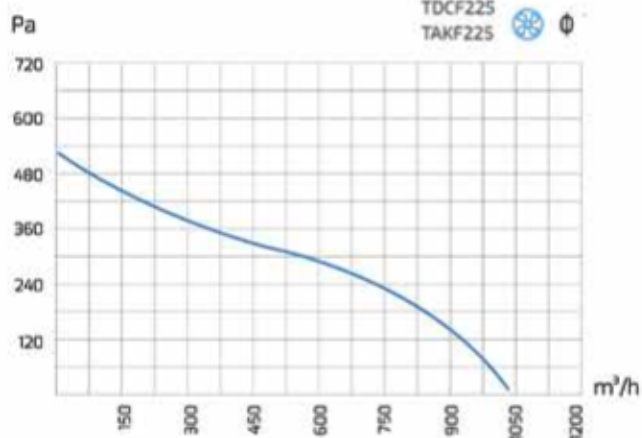


ROOF FAN WITH
VERTICAL THROW

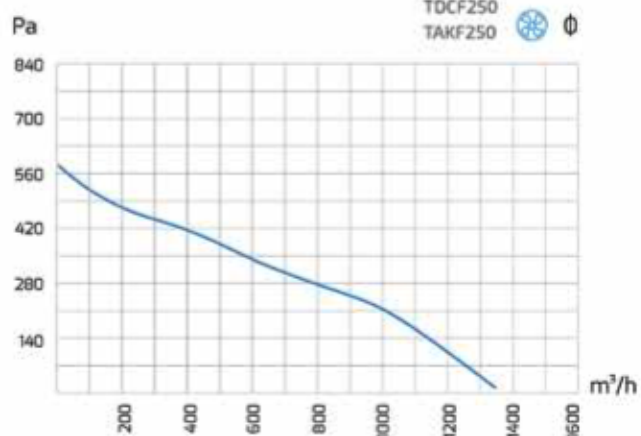
TDKF3015
TCF190
TDCF190
TAKF190



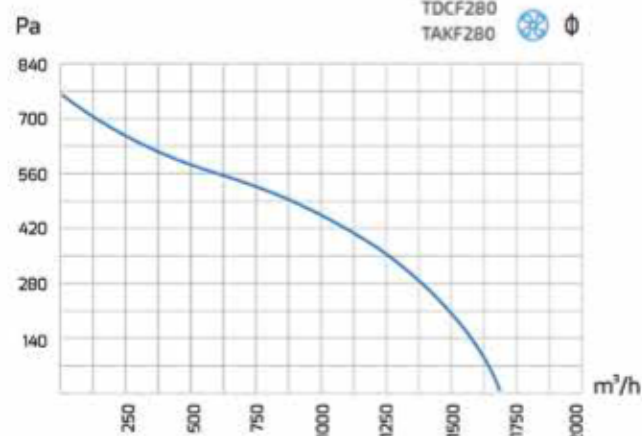
TDKF4020a
TCF225
TDCF225
TAKF225

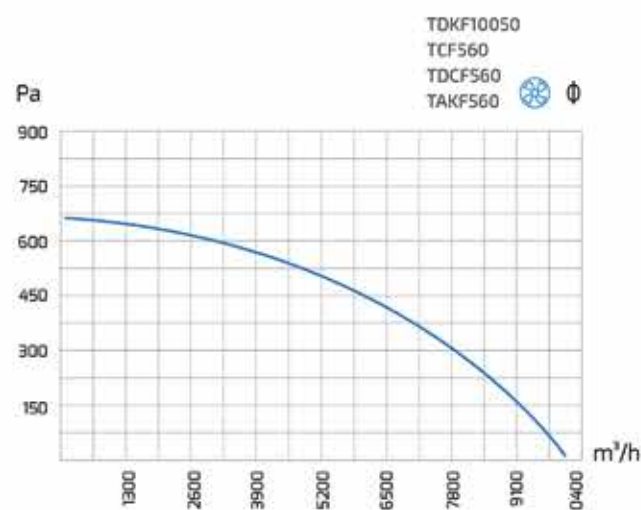
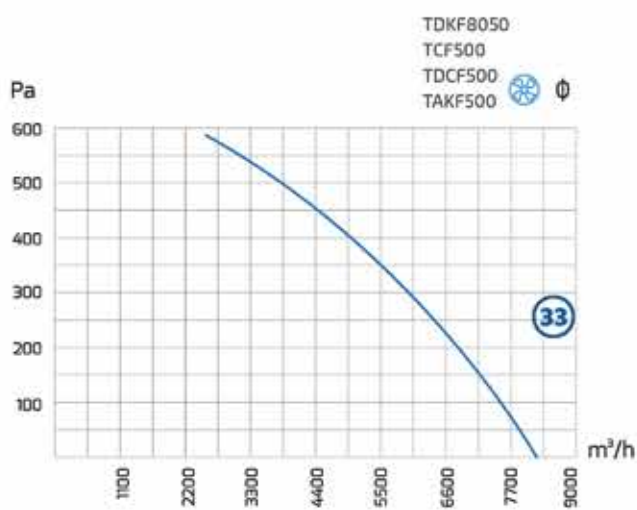
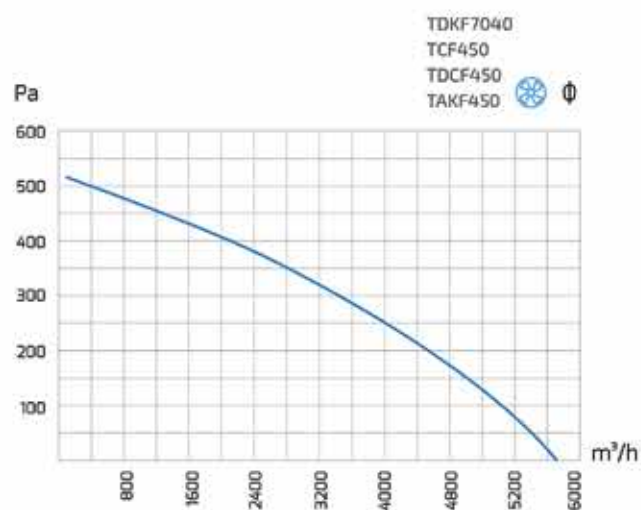
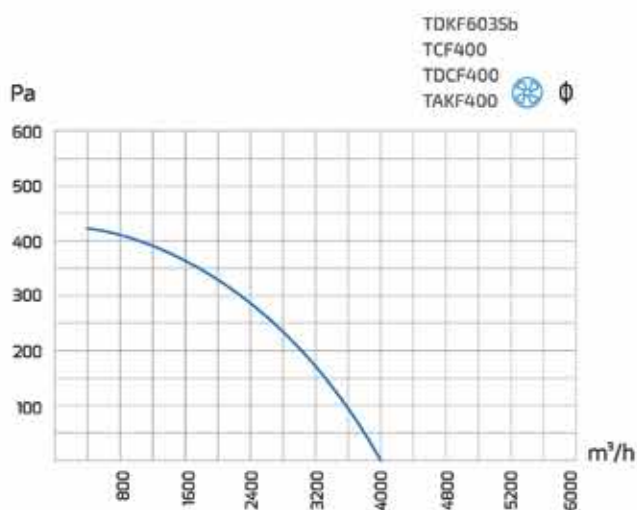
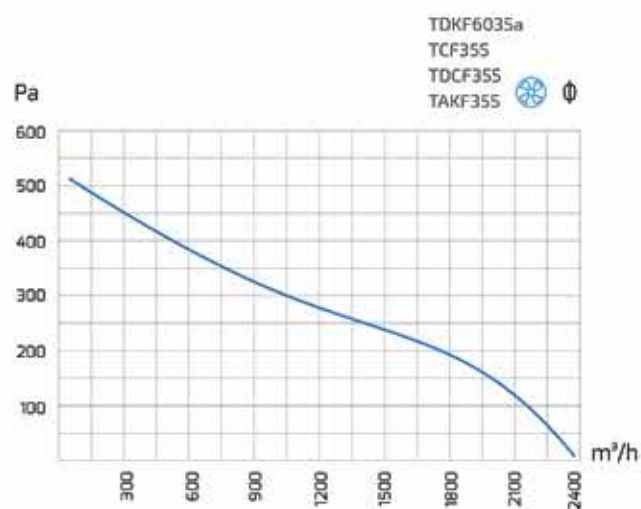
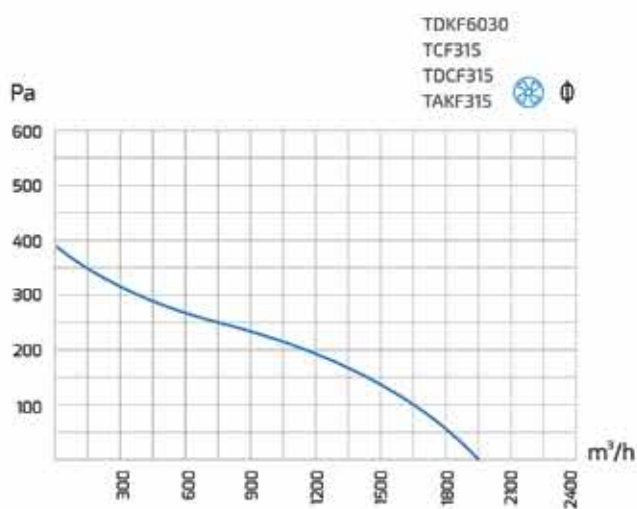


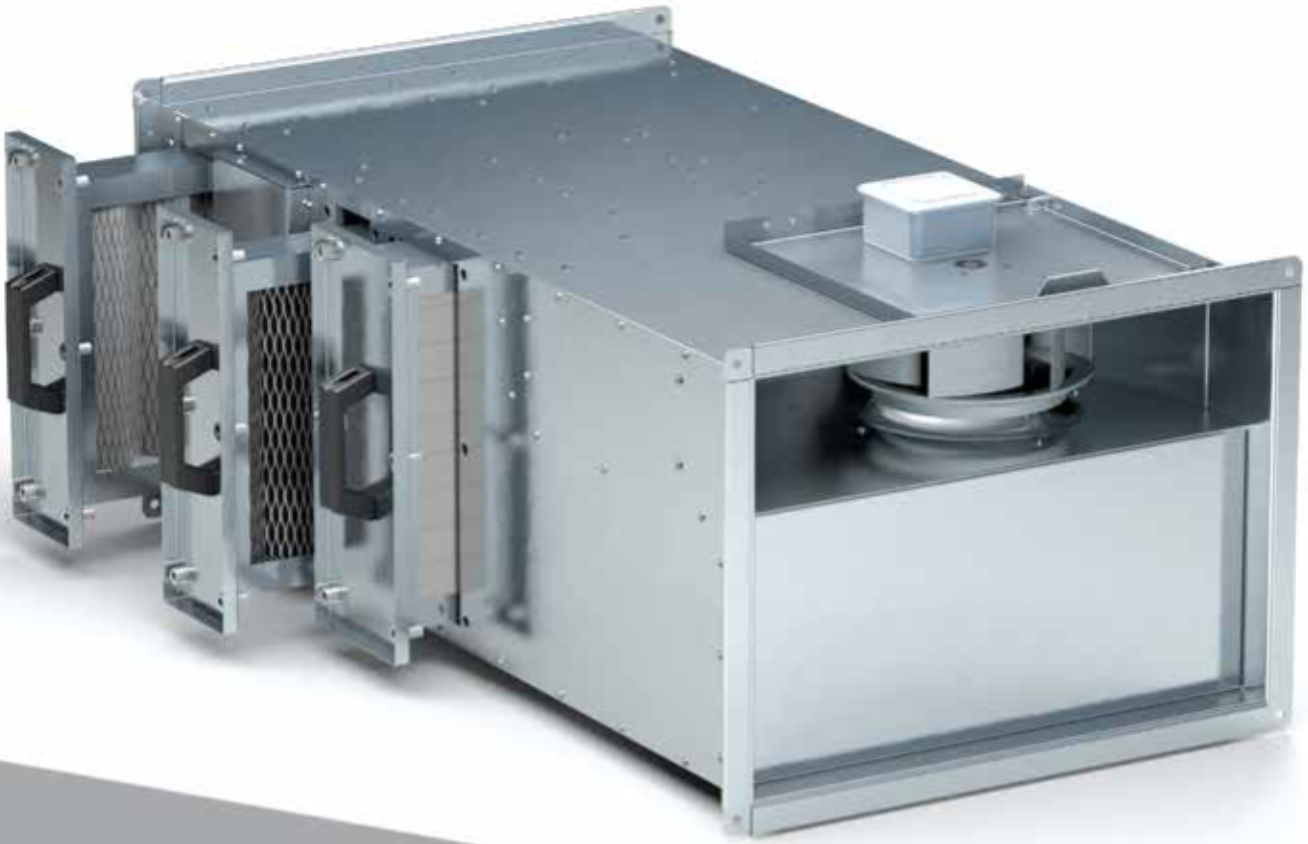
TDKF4020b
TCF250
TDCF250
TAKF250



TDKFS025
TCF280
TDCF280
TAKF280







DUCT TYPE FRESH AIR FAN FOR SHELTER

Model Info

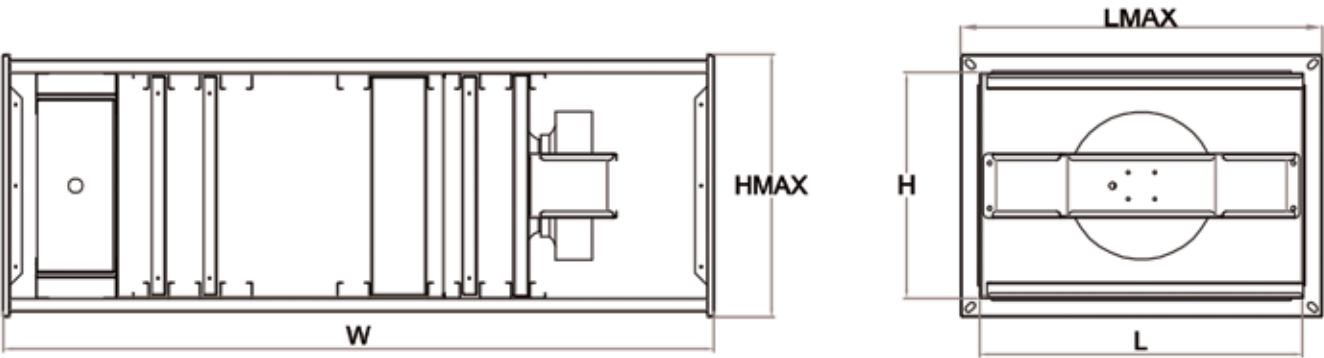
PRODUCT CODE	VOLTAGE (V)	FREQUENCY (Hz)	POWER (W)	SPEED (Rpm)	SOUND LEVEL dB(A)	AIRFLOW (m ³ /h)	PRESSURE (Pa)
TKSF50	220	50	105	2200	66.00	450	200
TKSF60	220	50	150	2440	72.00	750	200
TKSF70	220	50	195	2020	72.00	1200	200
TKSF80	220	50	540	1290	68.00	2000	200
TKSF90	220	50	1300	1300	75.00	3000	200
TKSF100	380	50	1800	1250	77.00	4500	200

TKSF

- Body is manufactured from galvanized steel.
- It was designed to be used with rectangular channels.
- By-pass operation is performed by air-adjusting damper which can work manually exclusively (which is specially manufactured in the case) or servo motor.
- All equipment can be easily accessed with service and maintenance purposes.
- Our device is equipped with and includes radial fan with backward curved blade, G4 filter, Carbon filter and Radioactive filter (optional lead separator).
- Manufactured in line with TSE 60335-1 and TSE 60335-2-80 standards.

Dimensions

MODEL	L	H	W	LMAX	HMAX
TKSF50	500	350	1100	550	400
TKSF60	600	350	1100	650	400
TKSF70	700	350	1100	750	400
TKSF80	900	500	1200	950	550
TKSF90	900	550	1250	950	600





LOW PRESSURE RADIAL FANS

Model Info

PRODUCT CODE	VOLTAGE (V)	FREQUENCY (Hz)	POWER (W)	SPEED (Rpm)	AIRFLOW (m ³ /h)	PRESSURE (Pa)	WEIGHT (Kg)
TSF-A1	230 / 380	50	0,37	1400	1500	400	24
TSF-A2	230 / 380	50	0,75	1400	2500	450	34
TSF-A3	230 / 380	50	1.1	1400	3500	600	42
TSF-A4	230 / 380	50	1.5	1400	4500	700	47
TSF-A5	230 / 380	50	2.2	1400	6000	750	58
TSF-A6	230 / 380	50	3	1400	6500	800	60
TSF-A7	380	50	4	1400	7000	950	67
TSF-A8	380	50	5.5	1400	9000	1200	106
TSF-A9	380	50	7.5	1400	12000	1500	134

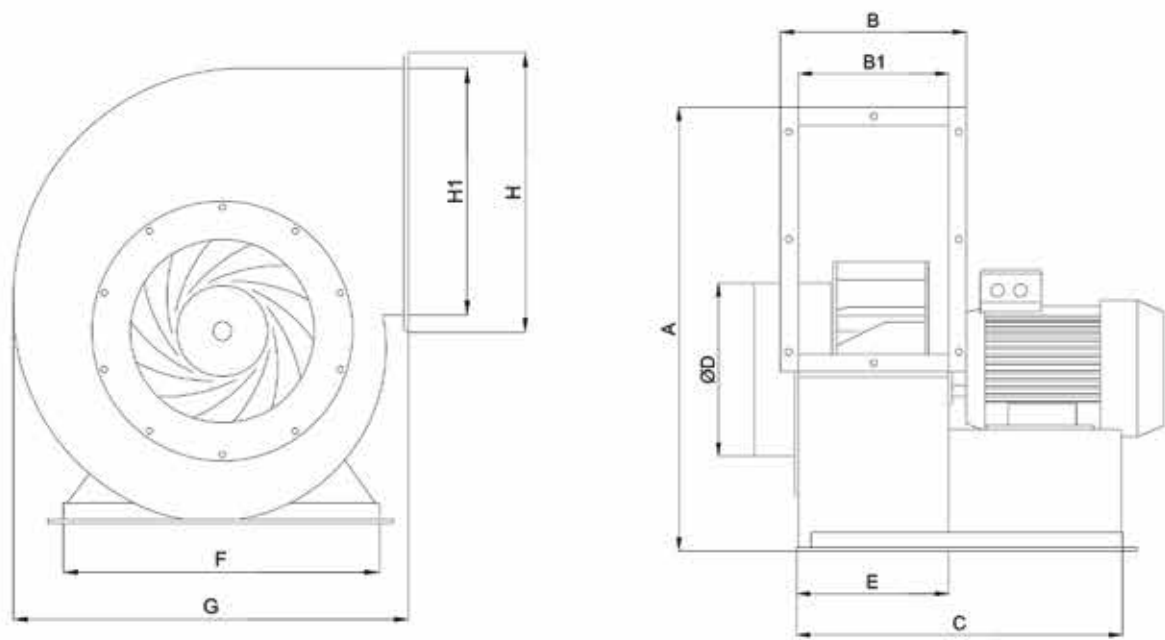
TSF-A

- Has air flow between 2.000 m³/h and 12.500 m³/h,
- Casing and impeller are made from DKP sheet metal and protected fromcorrosion by cellulose paint.
- The propellers of our industrial fans can be manufactured optionally as backward curved and forward curved impeller depending on utilization.
- In the fans, directly coupled motors with the brands of GAMAk, VOLT, WATT are used.
- As an option, a speed control device can be used to adjust the air flow and pressure.
- Insulation : Class B
- Protection : IP 44

Application Areas : Fans are suitable for use the circulation of the clean air free of dust, the fans with backward curved propellers are for the circulation of the air with oiled, viscous and less dusty.

Dimensions

MODEL	A	B	B1	C	D	E	F	G	H	H1
TSF-A 1	500	215	160	390	180	160	300	410	250	200
TSF-A 2	580	235	180	410	200	180	360	510	310	260
TSF-A 3	660	260	200	490	240	200	410	530	320	270
TSF-A 4	690	270	220	510	260	220	410	600	340	290
TSF-A 5	730	280	230	600	300	230	475	630	370	320
TSF-A 6	730	300	250	620	320	250	475	630	370	320
TSF-A 7	790	310	250	650	320	250	560	660	430	380
TSF-A 8	870	335	280	730	330	280	600	780	490	440
TSF-A 9	1050	410	350	840	350	350	700	880	600	540





CYLINDRICAL IN-LINE RADIAL FANS

Model Info

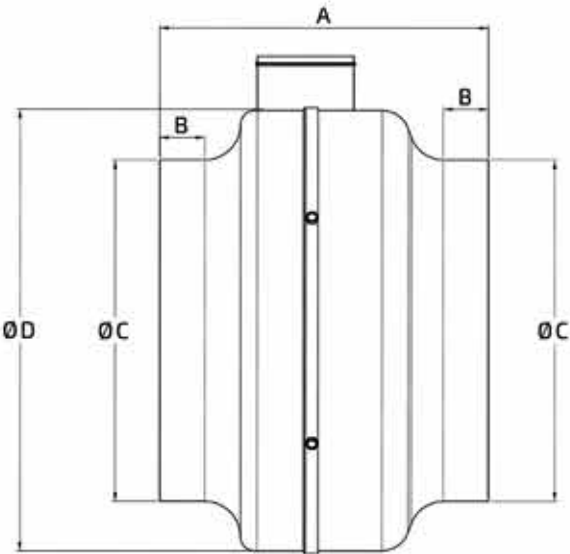
PRODUCT CODE	VOLTAGE (V)	FREQUENCY (Hz)	POWER (W)	CURRENT (A)	CAPACITOR (Volt)	SPEED (Rpm)	AIRFLOW (m ³ /h)	SOUND PRESSURE LEVEL (Db)	AĞIRLIK (Kg)	PACKAGE
TYKF-100A-2K-M	220	50	70	0,30	2,5 / 4000	2400	220	43	3,40	1
TYKF-100B-2K-M	220	50	75	0,32	2,5 / 4000	2500	260	45	3,50	1
TYKF-125A-2K-M	220	50	80	0,34	2,5 / 4000	2450	300	48	3,55	1
TYKF-125B-2K-M	220	50	85	0,35	2,5 / 4000	2500	355	50	3,65	1
TYKF-150A-2K-M	220	50	85	0,35	2,5 / 4000	2450	370	51	3,85	1
TYKF-150B-2K-M	220	50	85	0,37	2,5 / 4000	2500	400	52	3,90	1
TYKF-160A-2K-M	220	50	85	0,40	2,5 / 4000	2500	480	51	4,00	1
TYKF-160B-2K-M	220	50	85	0,45	2,5 / 4000	2520	730	53	4,15	1
TYKF-200A-2K-M	220	50	90	0,54	2,5 / 4000	2530	780	50	4,45	1
TYKF-200B-2K-M	220	50	110	0,63	4/400	2550	1000	52	4,65	1
TYKF-250A-2K-M	220	50	130	0,68	2,5/400	2560	1160	53	4,55	1
TYKF-250B-2K-M	220	50	160	0,81	4/400	2580	1320	54	4,80	1
TYKF-315A-2K-M	220	50	180	1,00	4/400	2650	1520	54	5,60	1
TYKF-315B-2K-M	220	50	220	1,20	6/400	2620	1950	55	5,85	1

TYKF

- Has air flow between 220 m³/h and 1,950 m³/h.
- Casing is made of DKP sheet metal and protected from corrosion by electrostatic powder coating.
- Equipped with external rotor motor.
- Impeller is backward curved and made from galvanised sheet metal.
- They have been designed as high and low pressure type to be mounted between the horizontal and vertical pipes and ducts.
- All models are equipped with wall mounting device.
- As an option, a speed control device can be used to adjust the air flow and pressure.
- Insulation : Class B
- Protection : IP 44

Dimensions

MODEL	A	B	C	D
TYKF-100A-2K-M TYKF-100B-2K-M	203	22	98	240
TYKF-125A-2K-M TYKF-125B-2K-M	203	22	123	240
TYKF-150A-2K-M TYKF-150B-2K-M	208	22	148	270
TYKF-160A-2K-M TYKF-160B-2K-M	203	22	158	240
TYKF-200A-2K-M TYKF-200B-2K-M	238	25	198	320
TYKF-250A-2K-M TYKF-250B-2K-M	238	30	248	320
TYKF-315A-2K-M TYKF-315B-2K-M	280	35	313	390





AXIAL FANS

Model Info

PRODUCT CODE	VOLTAGE (V)	FREQUENCY (Hz)	POWER (kW)	SPEED (Rpm)	AIRFLOW (m ³ /h)	SOUND LEVEL dB(A)	WEIGHT (kg)	PACKING
TDA-100-2K-M	220	50	15	2600	100	39	0,36	12 - 24
TDA-120-2K-M	220	50	20	2600	200	41	0,39	12 - 24
TDA-150-2K-M	220	50	25	2450	320	43	0,50	12 - 24

TDA

- Has air flow between 100 m3/h and 320 m3/h.
- Impeller and casing are made from ABS plastic.
- Can easily mounted with plug.
- All models equipped with neon lamp.
- Insulation : Class B
- Protection : IP 44
- Application Areas : Domestic plastic fans are suitable for use bathrooms, toilets, bedrooms and offices.

Dimensions

MODEL	A	B	C	D	E	F
TDA-100-2K-M	90	154	15	80	45	97
TDA-120-2K-M	110	184	16	97	55	119
TDA-150-2K-M	135	210	17	105	70	146

