

SIMPLY THE BEST  
SOLUTIONS

HVAC  
SYSTEMS

# TBOX

Standard Aspirator  
For Kitchen



CE TSEK

**TEKNOGEN®**

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# Teknogen

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As one of the leading manufacturers of Heating, Ventilation and Air Conditioning market, **TEKNOGEN HVAC** stands for innovation, top quality, leading technology and reliable service. That's why our motto is **"SIMPLY THE BEST SOLUTIONS"**.

One of the core issues for production is quality and high-end components for reaching top quality units. All internal processes are being regulated by **ISO9001** quality management system.

We combine the demands from the market with the new trends for energy savings and environmental needs. This combination leads us to create new designs with innovated ideas. This approach makes us have loyal customers worldwide.

**TEKNOGEN** has a large range for Air handling Units, Fancoils, Heat Recovery Ventilators, Swimming Pool Air Handling Units, Chillers, Rooftop Units, Floor Convectors, Unit Heaters. Our headquarters located in Istanbul and the factory is in Izmir.

If you are looking for high quality production and a solution partner, we Teknogen ready.

## TBOX

TBOX Standard Aspirators, designed by TEKNOGEN R&D team, clearly has high specifications which made it preferred in the market.

TEKNOGEN TBOX provides high acoustic and thermal insulation. Units have panels with 50 mm thickness and filled with 70 kg/m<sup>3</sup> Rockwool. The carcass is painted aluminium. The aluminium based plug fans provide a hygienic interior environment and easy cleaning especially in kitchens. Thanks to metal filter which eliminates oil, the discharge of the accumulated oil to atmosphere will be prevented.

The standard plug fan system enables to seize the required constant flow even at variable air pressure losses. Energy consumption can be controlled since the rounds of the unit could be adjustable. They can reach high efficiency levels with low energy consumption.

In standard TBOX devices the motor is outside of the air flow. Then the oil in the air flow does not come in contact with the motor and this extends the lifetime of the motor.

The modular panel system on TBOX units allows to 4 different air discharge direction without making any change on the unit.

Thanks to feet design the unit can be transported vertically or horizontally.

### Functions

- TBOX units are used to exhaust the air in kitchens at hotels, restaurants or similar places.
- It exhausts burning gases in the cooking environment.
- It filters the exhaust through a metal filter while sending it to atmosphere.
- In industrial applications, it is used to exhaust polluted air.

### Specifications

- In nominal air flow, 5 models between 2500 m<sup>3</sup>/h and 10000 m<sup>3</sup>/h
- Acoustic and thermal isolation with double skinned panels 50mm in thickness and 70kg/m<sup>3</sup> Rockwool in density
- Back curved typed aluminium fans with high corrosion resistance
- Low energy consumption and low sound level due to its highly efficient plug fan
- Special motor cell preventing the exhausted air
- The exhausted air can be discharged in 4 different direction through the non-stable air blowing panels
- Smooth performance with its low sound and vibration
- Thermic motor protection
- Heavy duty fans thanks to its welded wing structure

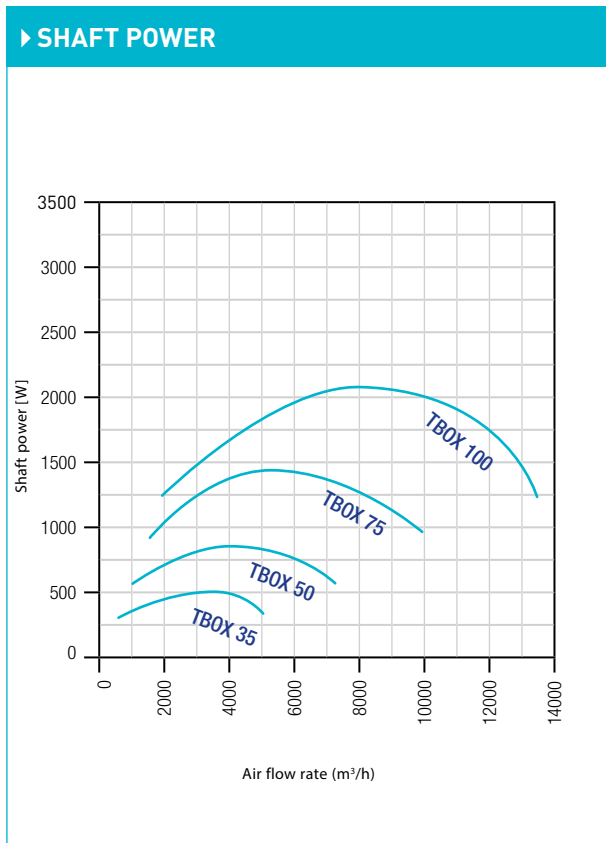
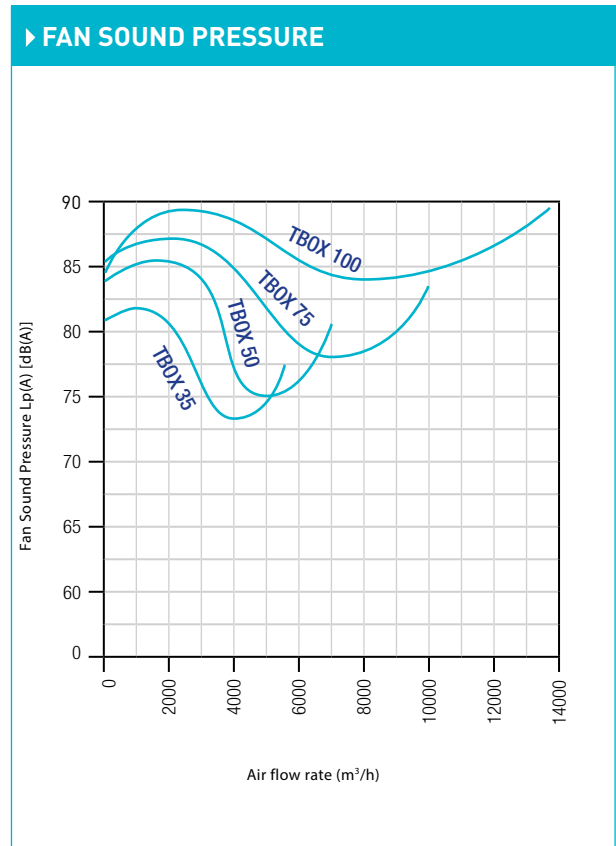
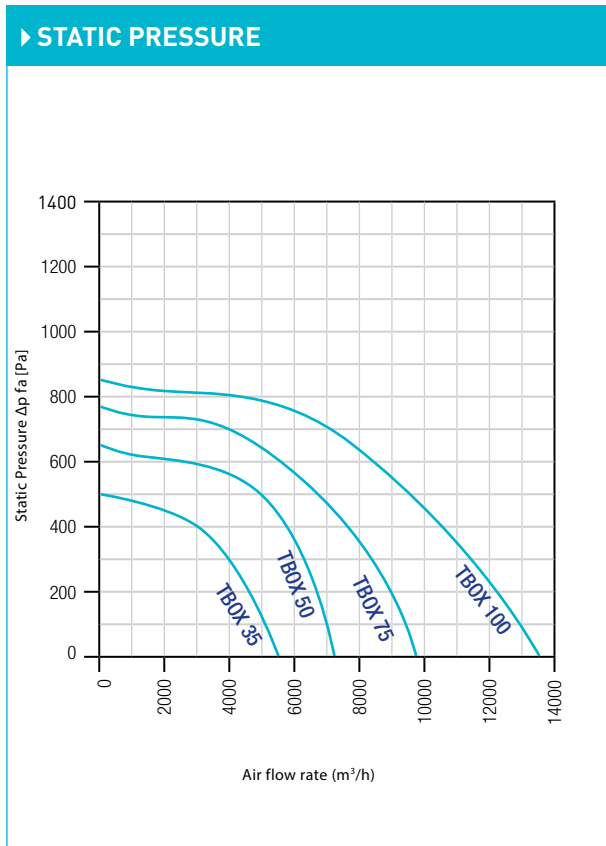
### Optional components

- Filter box (metal filter keeping the oil or G4 class panel filter)
- Speed regulator up to TBOX 75 models and frequency inverter for TBOX100
- Surveillance window
- Differential Pressure switch to observe the filter pollution
- Lighting inside the unit

## Technical Specifications

Model	Air Flow	Static pressure outside the unit	Fan efficiency	Motor Power/ rpm	
	m <sup>3</sup> /h	pa	%	kW - d/d	
TBOX	35	3500	400	76,23	0,55 - 1500
	50	5000	500	77,7	1,1 - 1500
	75	7500	450	79,3	1.5 - 1500
	100	10000	500	77,3	2.2 - 1500

# Performance Curves



## Fan

In TBOX units special aluminium alloyed fans with high corrosion resistance are used. Fans have high mechanical endurance. Fans are designed in a back curved shape, so that high efficiency performance is achieved by minimalizing its sound level, which is 75 dB(A) in TBOX fans. The sound level of the unit itself is not more than 65 dB(A). The usage of the Rockwool and acoustical tiles, enables the installation of TBOX units close to the ventilation system in kitchens and restaurants. Fan can be easily cleaned owing to its back curved shape.

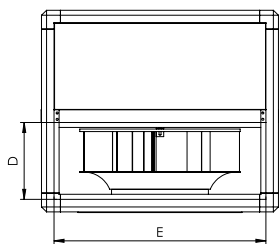
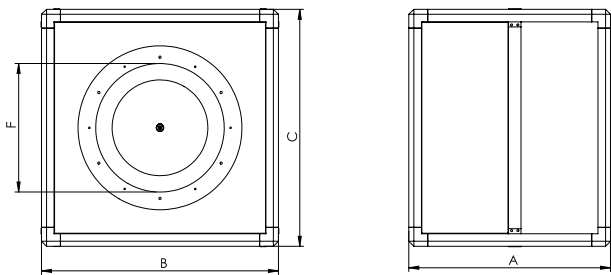


## Motor

High efficient B5 motor with flanges are used in TBOX units. Up to TBOX 75, the units work with monophas electricity. Since the motor is fully isolated from the exhausted air, its lifetime is very long.



# Dimensions



Model	A	B	C	D x E	F
	mm				∅
TBOX	35	600	700	244 x 640	271,5
	50	650	775	262 x 715	338
	75	700	850	291 x 790	338
	100	800	940	341 x 880	380

# Accessories

## Metal Filter Cell

In case there is no oil-eliminator filter in the extractor fan or a second filter is required, metal filter can be provided upon demand. The metal filter is produced from aluminium with high corrosion resistance. It is washable.



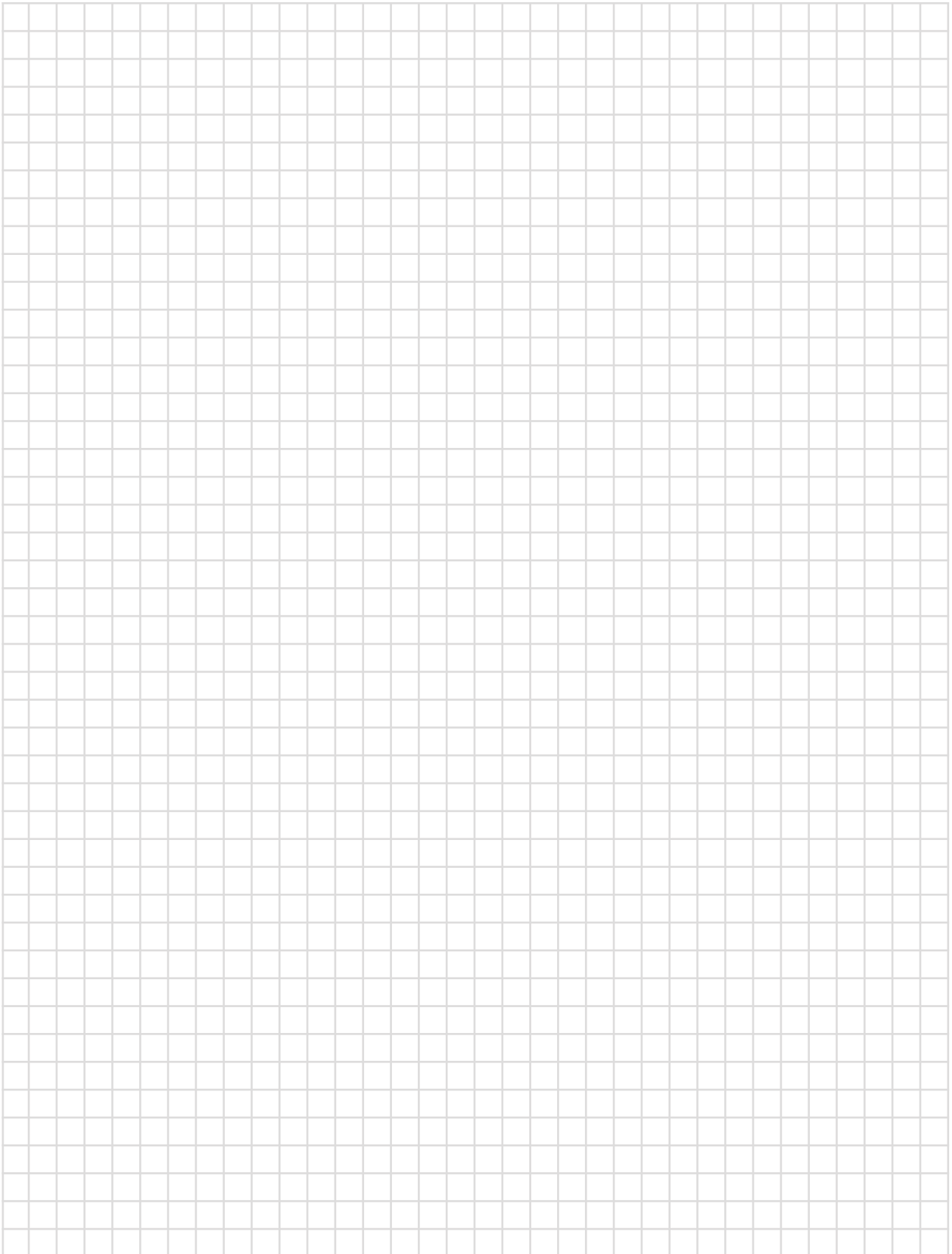
## Panel Filter Cell

In case of TBOX units will be used in industrial exhaust applications, they will be supplied with optional panel filter cell. Panel filters are monolithic and easily cleanable with air.

## Flow Control

TBOX units will be supplied with an optional Flow Control Kit in case of flow adjustment is required . The Flow Control Kit comes with a speed controller in TBOX 75 units, whereas it comes with a Frequency Inverter in TBOX 100 units.





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## **TEKNOGEN®**

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