

**Guangzhou AoZhong Fan Equipment Co.,LTD**

**CKS FangYuan Industry**



Patient Number: ZL201120066450.2

Patient Number: ZL201130043357.5

Patient Number: ZL201530066864.9

Patient Number: ZL201720161913.0

**TMK**  
**Mixed Flow Fan**

CKS Fang Yuan Industry Mixed fans are designed to provide efficient and reliable operation for commercial and extractive industry. Our products are manufactured with state of the art laser, forming, spinning and welding equipment and ensure our quality control testing to ensure trouble free start-up. Our mix fans are including industry leading design features to ensure your ventilation equipment has the latest technologies available.

Main features with TMK Series,

- All mold design construction. Housings are manufactured with Nylon,
- Galvanized sheet or stainless steel.
- Mix type of impeller, high efficiency and low noise.
- The fan is compact, so it is easy to installation and repair.
- It is designed for direct connection in line with standard diameter circular ducting.
- Small models use single phase motor, large models adopts single-phase asynchronous external rotor motor
- It is used to ventilate in factory and the building
- EC Technology Available

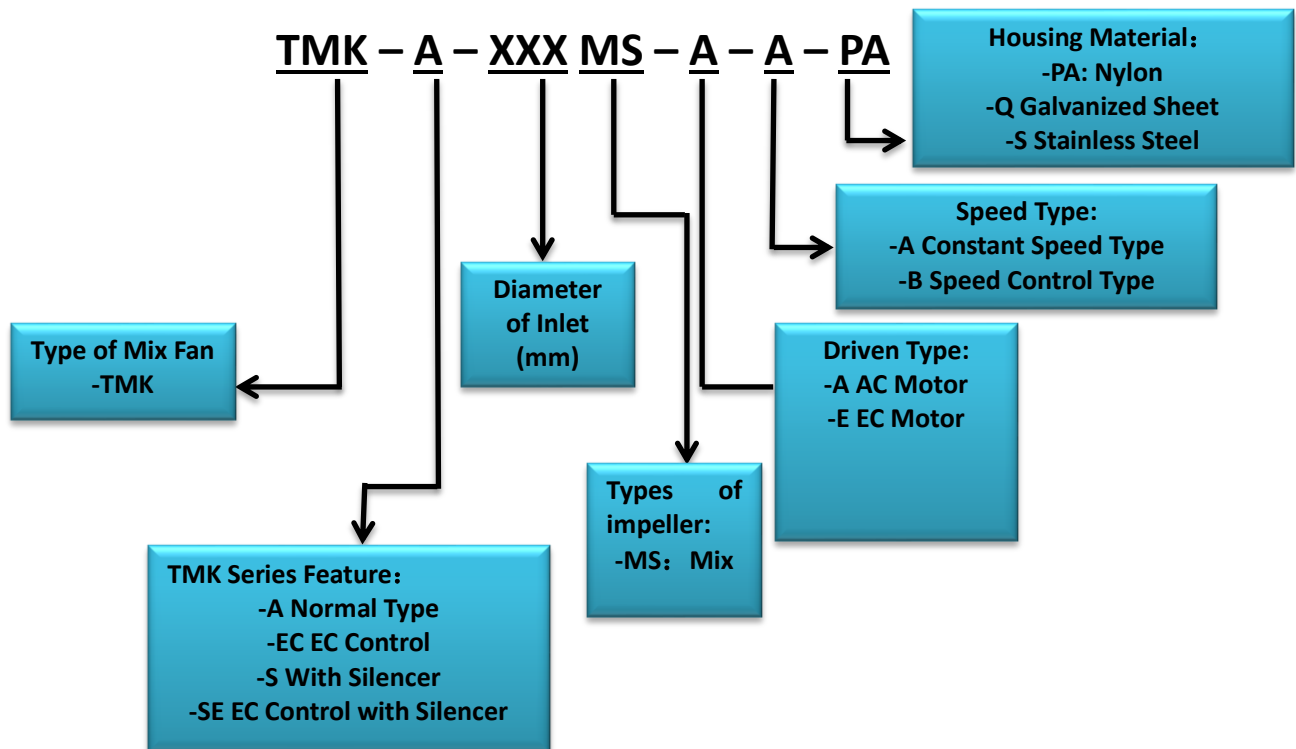


Every Mix fan has been test for three different planes before package. Typical application includes:

- Stairwell Pressurization
- Hydroponic Grow Farm
- Low noise Industry
- Agricultural area

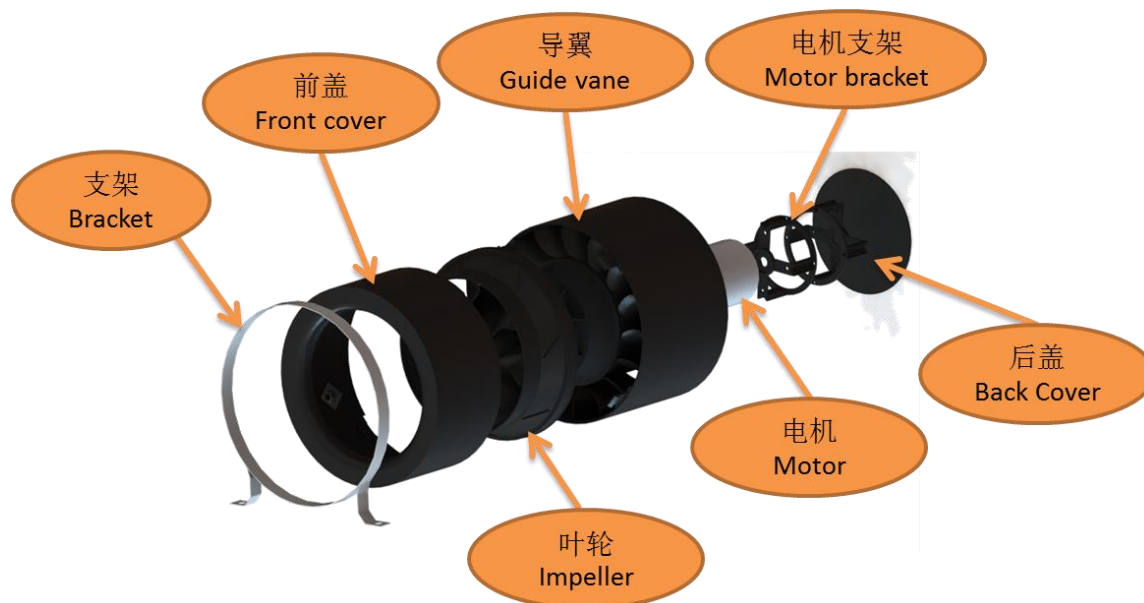
Engineers in Guangzhou AoZhong Fan Equipment Co.,LTD can assist you in improving the operational efficiency of the air movement in your system.

## Mixed Fan Model Number Code:

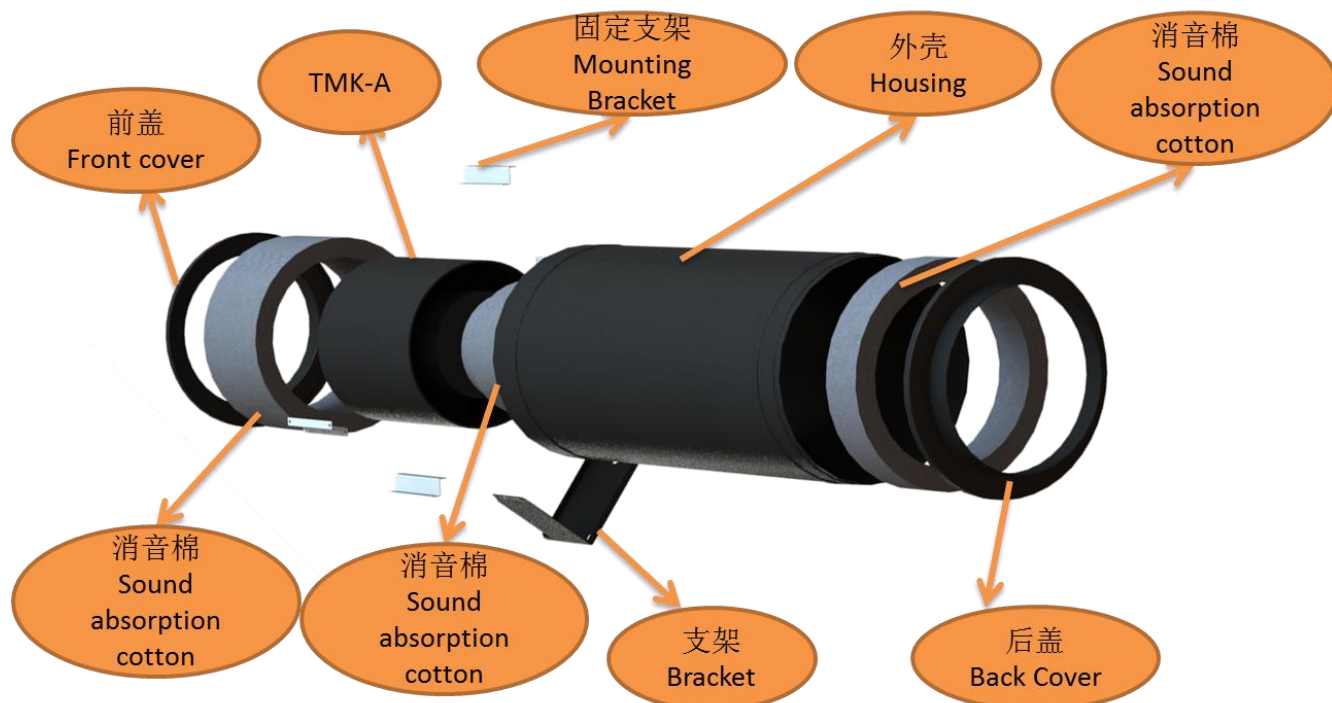


## TMK Series Construction Features

**TMK-A and TMK-EC:** Corrosion resistant; The inlet is adopted by aerodynamic shape in order to let air flow into the impeller. Air inlet and air outlet has the same dimensions, so it is easy to install. The air inlet cover and the air outlet cover are connected by screws

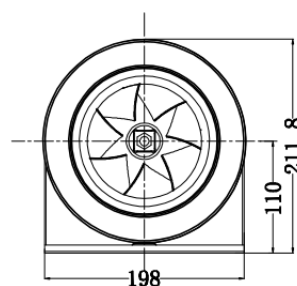
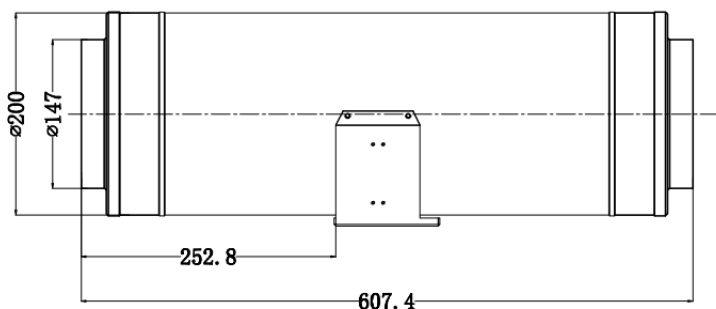
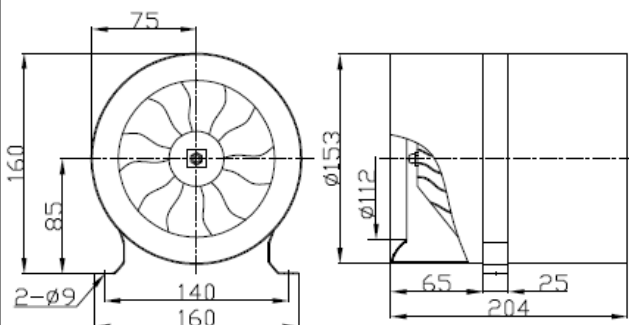
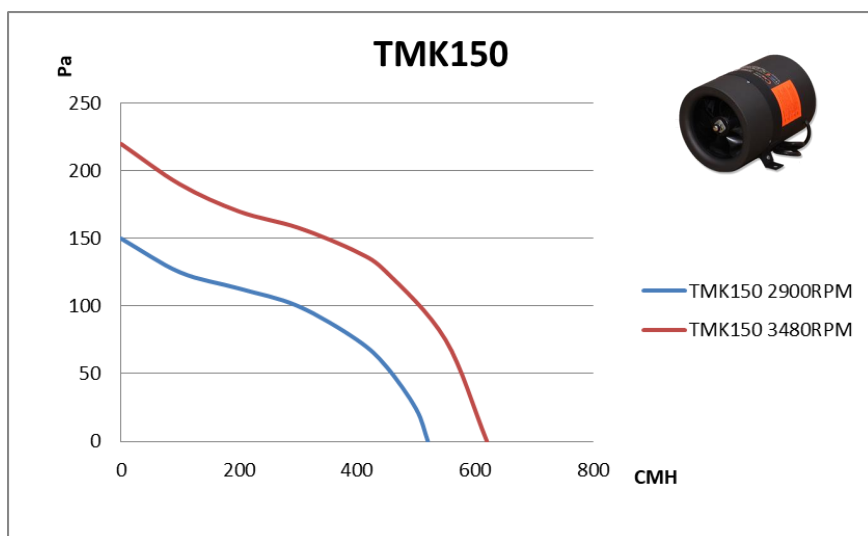


**TMK-S and TMK-SE:** Well matched with the housing. Large air volume, high efficiency and low noise; Core is TMK Series movement; Anti-corrosion and can be used in humidity and high temperature environment;



# TMK Mixed Flow Fan

## TMK150 (6'') Dimension and Performance



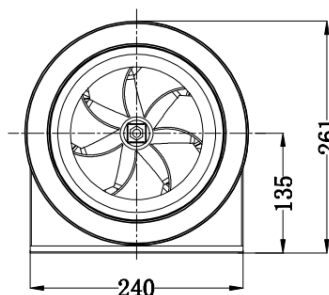
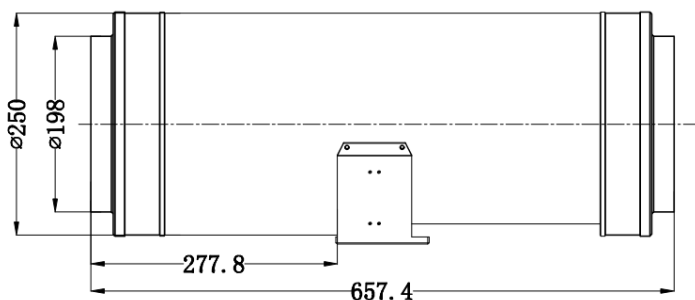
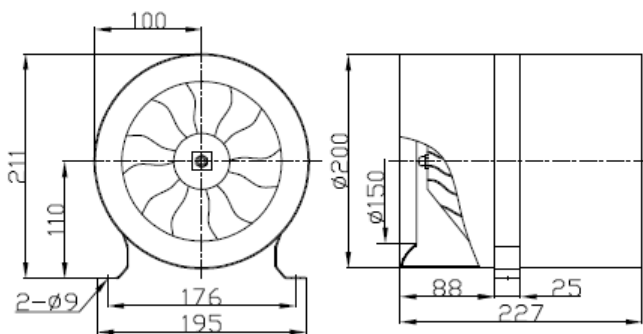
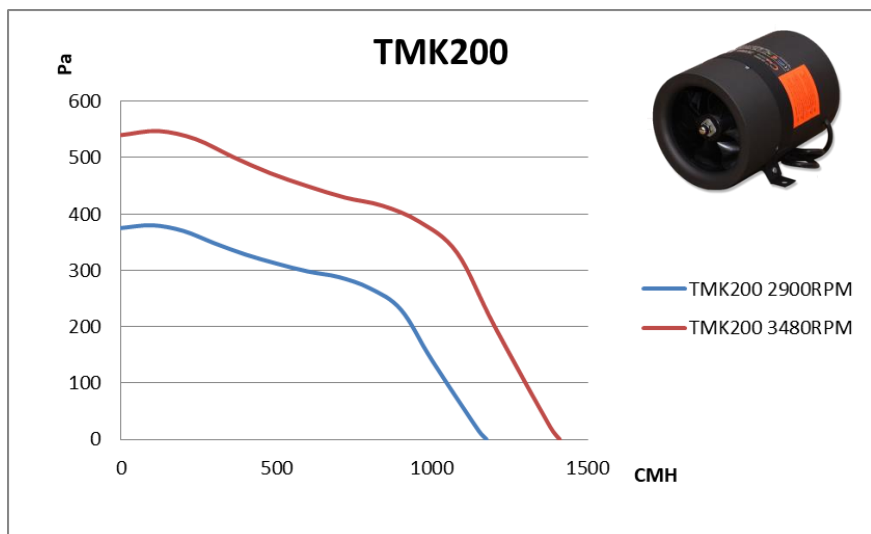
	TMK-S-150MS与TMK-SE-150MS	
最大转速Max. RPM	2900rpm	3480rpm
最大噪声Max. Noise	52dB	53dB

TMK150	150 (6'')	150 (6'')	150 (6'')	
电压Voltage	普通AC Technology		可调EC Techbology	
		220-240V/50Hz	110-120V/60Hz	220V/50Hz-60Hz
功率Power	41W	55W	35w	35w
转速Speed	2900rpm	3480rpm	3000rpm	3000rpm
噪声Noise	52	62	52	52
工作温度Working temp	60° C	60° C	60° C	60° C

CKS Industry Technology has the right to change the engineering data, design and dimension without prior notice.

# TMK Mixed Flow Fan

## TMK200 (8'') Dimension and Performance



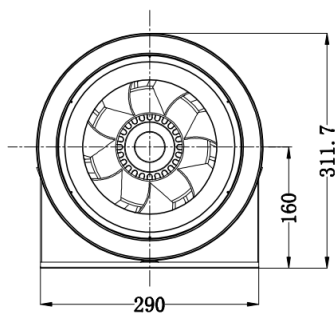
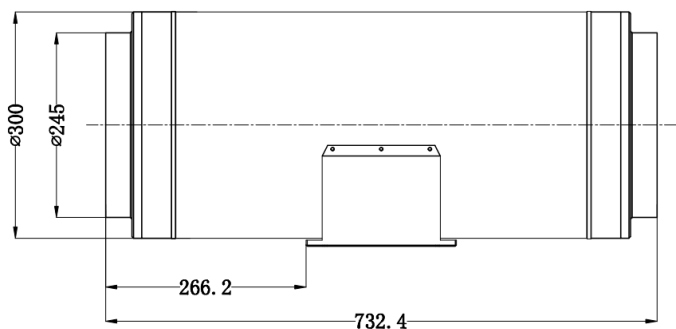
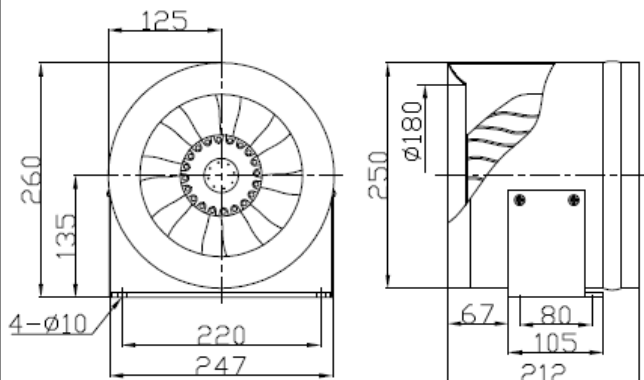
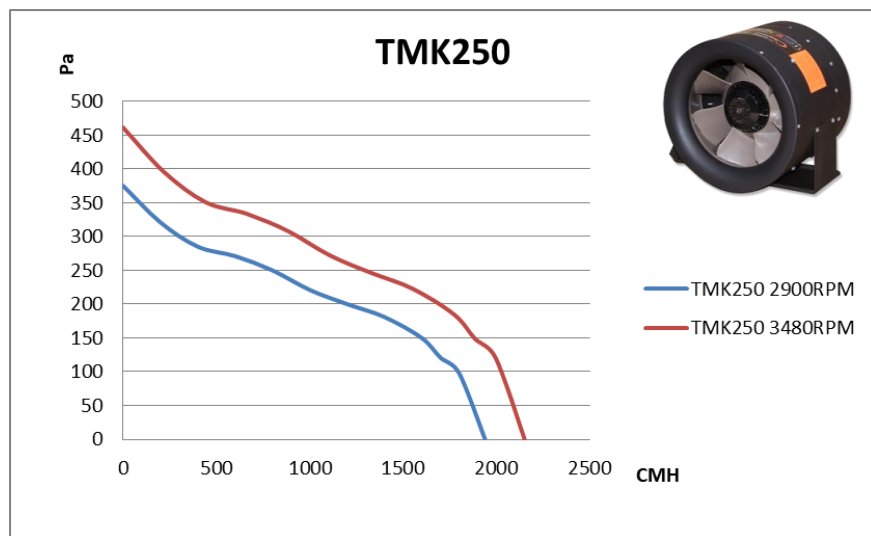
	TMK-S-200MS与TMK-SE-200MS	
最大转速Max. RPM	2900rpm	3480rpm
最大噪声Max. Noise	59dB	62dB

TMK200	200 (8'')	200 (8'')	200 (8'')	
	普通AC Technology		可调EC Techbology	
电压Voltage	220-240V/50Hz	110-120V/60Hz	220V/50Hz-60Hz	110V/60Hz
功率Power	120W	179W	102w	102w
转速Speed	2900rpm	3480rpm	3000rpm	3000rpm
噪声Noise	67	71	61	61
工作温度Working temp	60° C	60° C	60° C	60° C

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# TMK Mixed Flow Fan

## TMK250 (10'') Dimension and Performance



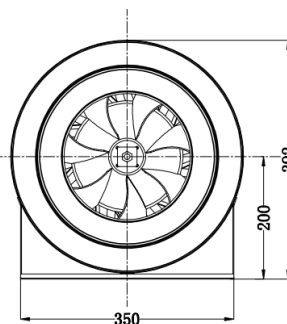
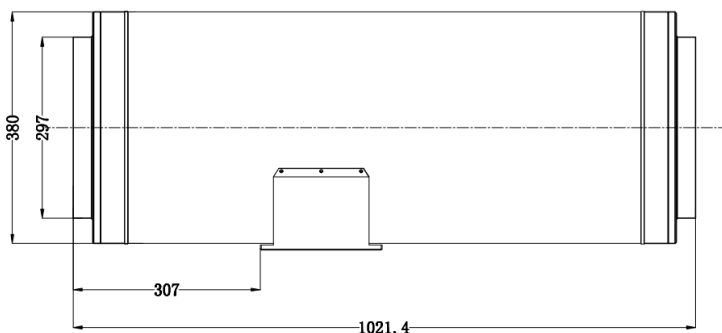
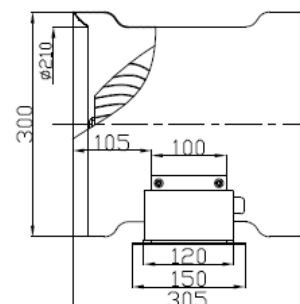
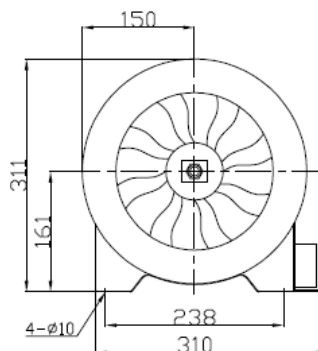
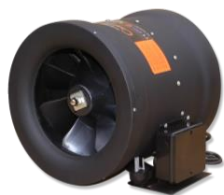
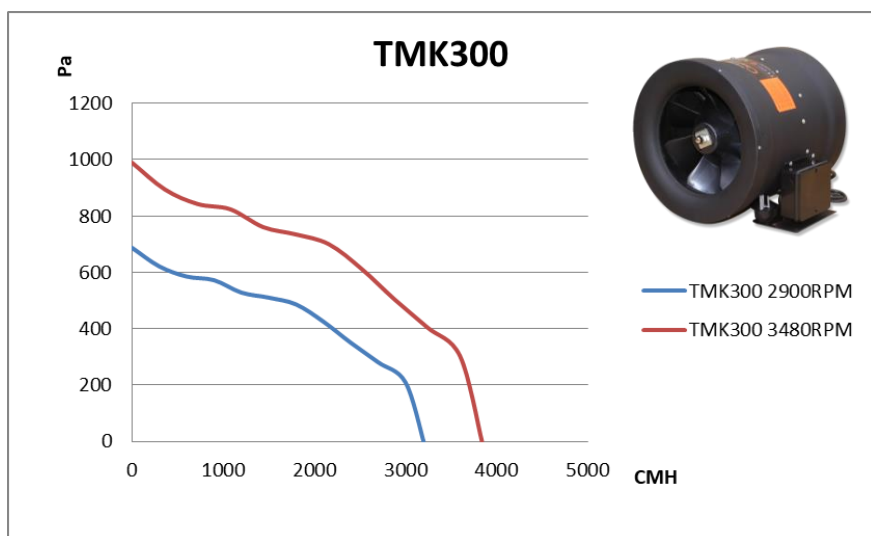
	TMK-S-250MS与TMK-SE-250MS	
最大转速Max. RPM	2750rpm	3050rpm
最大噪声Max. Noise	60dB	62dB

TMK250	250 (10'')	250 (10'')	250 (10'')	
电压Voltage	普通AC Technology		可调EC Techbology	
	220-240V/50Hz	110-120V/60Hz	220V/50Hz-60Hz	110V/60Hz
功率Power	153W	228w	140w	140w
转速Speed	2750rpm	3050rpm	2900rpm	2900rpm
噪声Noise	68	71	70	70
工作温度Working temp	60° C	60° C	60° C	60° C

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# TMK Mixed Flow Fan

## TMK300 (12'') Dimension and Performance

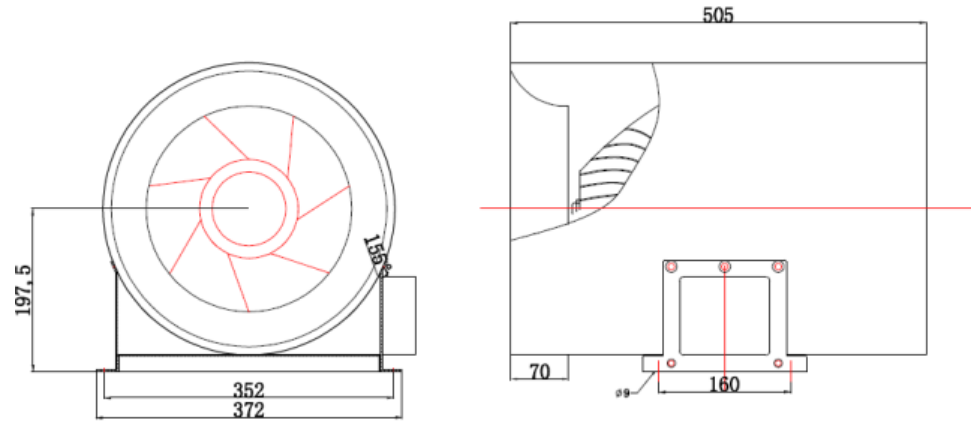
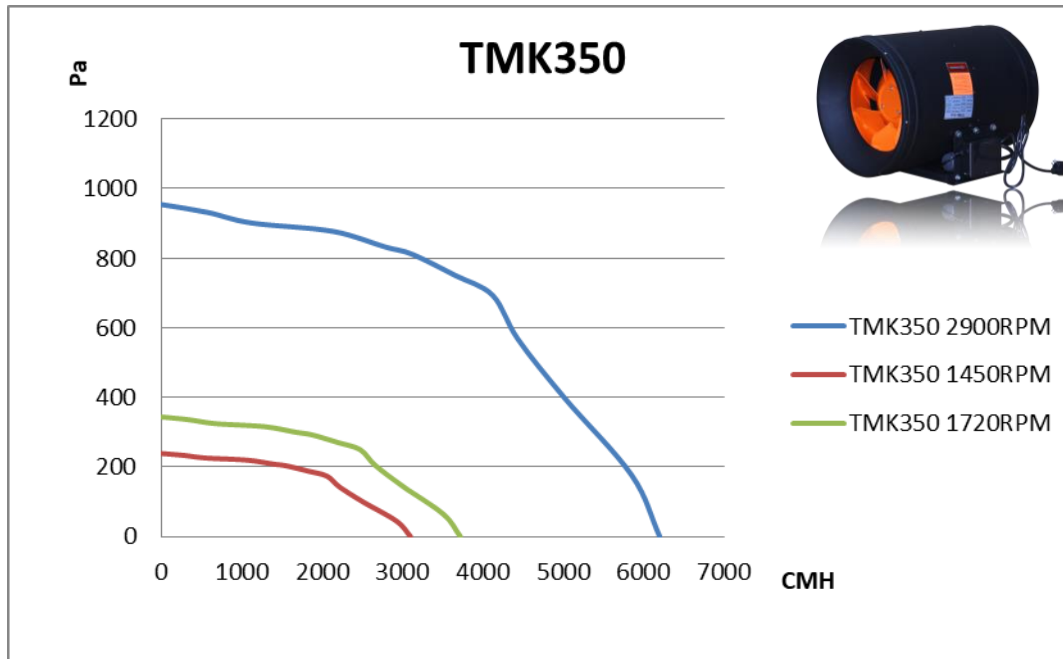


	TMK-S-300MS与TMK-SE-300MS	
最大转速Max. RPM	2900rpm	3480rpm
最大噪声Max. Noise	65dB	71dB

TMK300	300 (12'')	300 (12'')	300 (12'')	
电压Voltage	普通AC Technology		可调EC Techbology	
	220-240V/50Hz	110-120V/60Hz	220V/50Hz-60Hz	110V/60Hz
功率Power	334W	489W	378w	378w
转速Speed	2900rpm	3490rpm	3200rpm	3200rpm
噪声Noise	72	78	75	75
工作温度Working temp	60° C	60° C	60° C	60° C

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## TMK350 (14'') Dimension and Performance

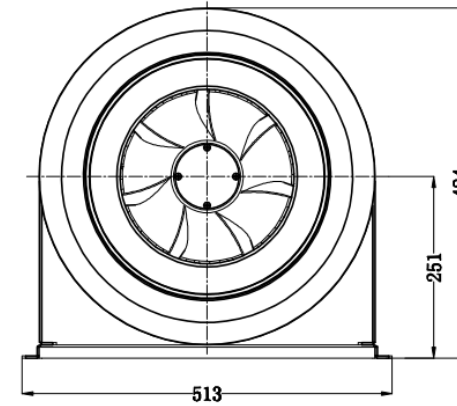
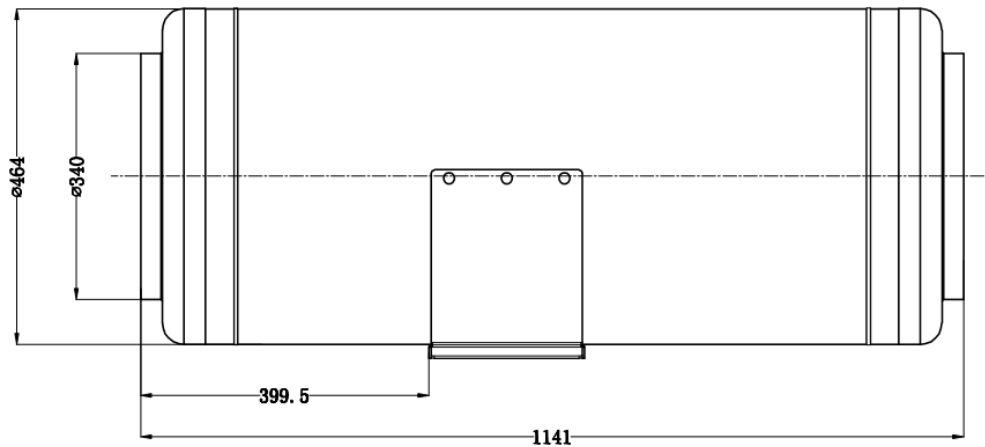


TMK350	355 (14'')	355 (14'')	350 (14'')	
电压Voltage	普通AC Technology		可调EC Techbology	
	220或380/50Hz	110V/60Hz	220V/50Hz-60Hz	110V/60Hz
功率Power	1.1kW	550W	1.1kw	1.1kw
转速Speed	2960rpm	1720rpm	2800rpm	2800rpm
噪声Noise	81	74	70	70
工作温度Working temp	80° C	80° C	80° C	80° C

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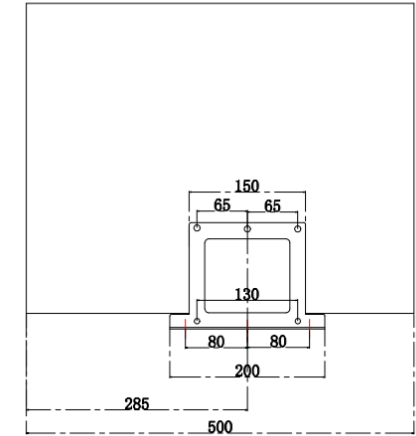
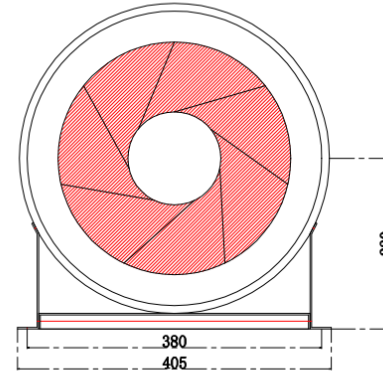
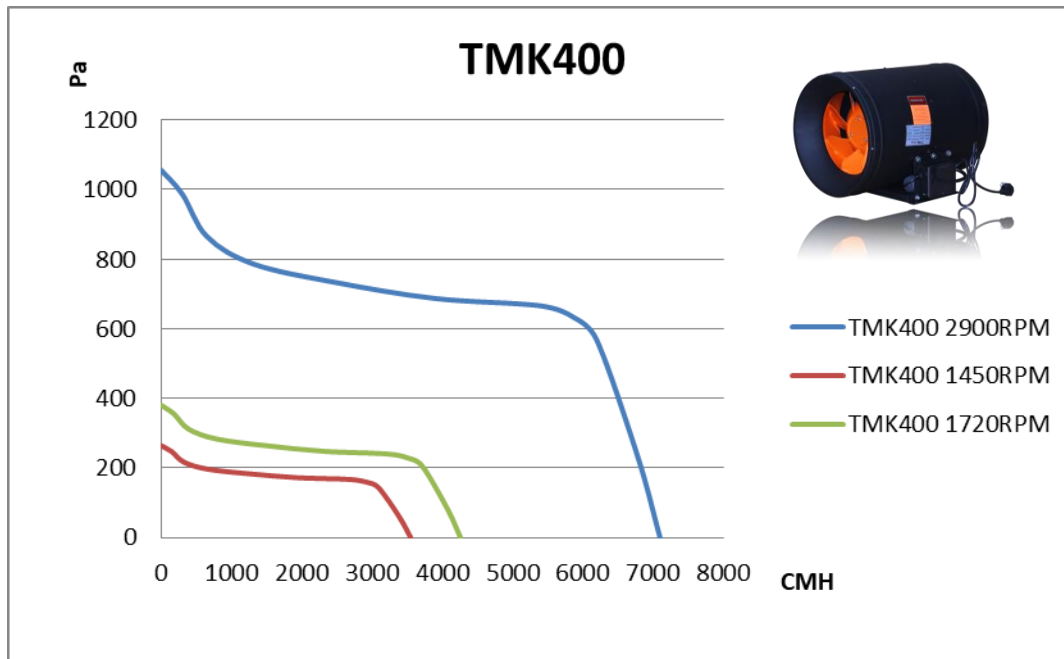


	TMK-S-350MS与TMK-SE-350MS		
最大转速Max. RPM	1720rpm	2900rpm	3200rpm
最大噪声Max. Noise	63dB	68dB	72dB



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## TMK400 (16'') Dimension and Performance

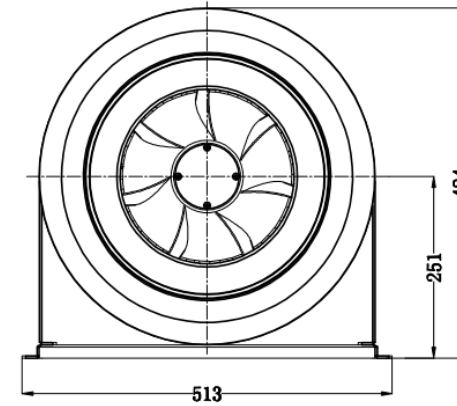
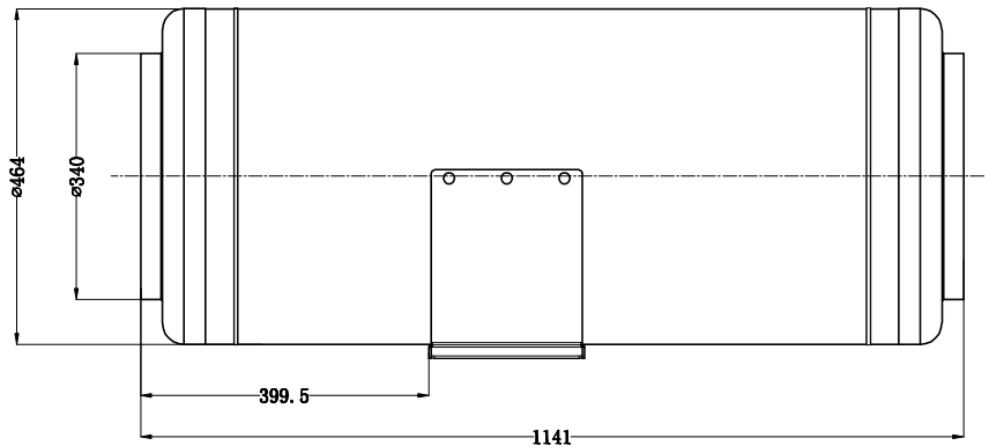


TMK400	400 (16'')	400 (16'')	400 (16'')	
电压Voltage	普通AC Technology		可调EC Techbology	
	380/50Hz	110V/60Hz	220V/50Hz-60Hz	110V/60Hz
功率Power	1.5kW	550W	1.5kw	1.5kw
转速Speed	2960rpm	1720rpm	2800rpm	2800rpm
噪声Noise	84	74	73	73
工作温度Working temp	80° C	80° C	80° C	80° C

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	TMK-S-400MS与TMK-SE-400MS		
最大转速Max. RPM	1720rpm	2900rpm	3200rpm
最大噪声Max.Noise	66dB	71dB	74dB



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## TMK Series Performance Data in CFM (Static Pressure W.G inch)

Model	Speed RPM	CFM @ Static Pressure (S.P) Ins. W.G									Maximum S.P
		0"	0.125"	0.25"	0.375"	0.5"	0.75"	1.0"	1.25"	1.5"	
TMK-A-150MS (6")	2500	257	230	196	49	\	\	\	\	\	0.4"
TMK-A-150MS (6")	2900	298	278	247	181	58	\	\	\	\	0.52"
TMK-A-150MS (6")	3480	358	343	337	299	264	59	\	\	\	0.78"
TMK-A-200MS (8")	2500	553	541	517	494	482	418	176	\	\	1.1"
TMK-A-200MS (8")	2900	641	631	612	606	600	547	487	256	33	1.51"
TMK-A-200MS (8")	3480	770	739	708	678	645	638	621	590	353	1.9"
TMK-A-250MS (10")	2365	942	936	923	848	743	409	87	\	\	1.03"
TMK-A-250MS (10")	2750	1112	1092	1083	1067	987	808	470	167	10	1.5"
TMK-A-250MS (10")	3050	1385	1322	1259	1234	1211	1165	1023	745	487	2.17"
TMK-A-300MS (12")	2500	1617	1611	1602	1581	1535	1435	1233	1061	789	2.04"
TMK-A-300MS (12")	2900	1876	1871	1854	1831	1801	1799	1612	1489	1334	2.75"
TMK-A-300MS (12")	3450	2293	2283	2278	2265	2203	2167	2111	2056	2011	3.9"
TMK-A-350MS (14")	1450	1589	1485	1270	1122	790	\	\	\	\	0.72"
TMK-A-350MS (14")	1750	1900	1791	1678	1511	1398	901	171	\	\	1.04"
TMK-A-350MS (14")	2500	3121	2993	2987	2977	2960	2745	2539	2378	2289	2.8"
TMK-A-350MS (14")	2950	3800	3795	3791	3785	3766	3759	3755	3546	3433	3.9"
TMK-A-400MS (16")	1420	2117	2087	1954	1865	1764	1176	\	\	\	0.99"
TMK-A-400MS (16")	1720	2511	2432	2322	2278	2213	2176	588	332	147	1.51"
TMK-A-400MS (16")	2950	4235	4211	4156	4122	4101	4078	4032	4003	3941	4.23"

## Usage Description

1. The fan is mainly use in delivering the clean air without the place that with easy burning materials, explosive materials and powder
2. If The fan is fed with external rotor machine and sealed ball bearing. It is free maintenance.
3. If the fan install in the damping and sobering area, continuous operation is required for the fan.
4. The fan can be installed in the outdoor or damp environment with drainage system.
5. All the fans are feeding with international standard motors, which are single phase 120V, 60Hz or 220V, 50Hz and three phases 380V, 50Hz
6. Installation is available in any areas

## Installation

1. Must be install according to the air flow marking
2. Must be connect to the piping or equip with safety accessories
3. Must be installing in a proper way and make sure the outlet is without any unusual materials.
4. Try to installing the fan as easy as for the maintenance purpose
5. Fan required flanges in order to avoid the piping damage when vibrated
6. Speed controller or transformer is available to connect to the fan
7. Wiring diagram is in the package.
8. Wiring must be strictly following the wiring diagram.
9. Electrical Installation must be done by professional technicians.
10. Electrical Installation must be connecting in the special control box.

## Operation

### Before operation, please make sure

1. The real maximum current cannot be exceed the National standard index:+5%.
2. The voltage pulsation is between +6% --+10%
3. No exceptional noise produce when operation.
4. The rotating direction for three phase motor is the same as the marking

## Maintenance

1. Before repair or maintenance the fan, please make sure the fan is stop and the fan is not working in overload condition
2. When disassemble the larger fan, please care for the weight to avoid blocking and scratching

3. Cleaning the fan once a year, so that it can keep the function and avoid the unnecessary damage.
4. Ball bearing is free maintenance except for the necessary updates.
5. When cleaning the fan, please do not use the high pressure washer or strong solvent, and do not take out the damaging impeller
6. Make sure the fan is operating without any noise

## Failure detection

1. Make sure the fan is in the load condition.
2. Verify the impeller is without block.
3. Please do check with the heat-variable switch and motor protector. If the switch is not in connected, please do check it. If its need to restart makes sure the power supply is cut off in a few minutes until the rated current is not higher than 1.6A. If the motor has the heat protector, it will automatically reset after cool down.
4. Make sure the capacitor is connected according to the wiring diagram.
5. Please change the capacitor at the first time when the fan is not work.
6. Please contact the distributor if the fan is still not work
7. When send back the fan to the distributor, please clean it and make sure the cables are

## Guarantee

The guarantee is valid only with the guideline of this manual.

### Noise level test method

1m/45° free zone, without connect the ducting noise data.



## Company Introduction

CKS FangYuan Industry is China based business owned and operated by its management team. We specialize in air movement and have experience gained more than ten years of operation with worldwide predecessors. We service the ventilation equipment needs of customers ranging from HVAC through mining, manufacturing, construction, and agriculture as well as retail end users include Tianjin and Suzhou retail stores. We build our products in state of the art facilities in Guangzhou, WuHan and DeQing. We adapt ISO9001 quality system to ensure our customers are using best products.

### Capabilities and Services

1. Fan and Blower design and manufacture
2. Fully performance tested products and published data
3. In-house design engineering team
4. Scale and capacity to handle any size project
5. Servicing overseas markets with built products and OEM supply
6. Sales and after sales support teams



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### Certification:



### Guangzhou AoZhong Fan Equipment Co.,LTD

