

INFINAIR™

Sidewall Exhaust / Supply Fan

WEF / WSF
YFWEX / YFWSP
WEX - EX / WSP - EX



Company Profile

Founded in September 2003, INFINAIR Corporation serves as a comprehensive provider of mid-to-high-end system solutions and services that integrate R&D, production, and sales capabilities in the fields of building and industrial process ventilation, heating, and air treatment.

Embracing the future-oriented principles of "Green Environmental Protection" and "Smart Connectivity,"INFINAIR has consistently devoted itself to R&D in the ventilation industry. Upholding the core value of "Customer First," INFINAIR always delivers reliable, user-friendly, energy-efficient, green, and intelligent products and services.

Shanghai Headquarters:

INFINAIR Corporation

Building Area: 31,865 m²

Address: No.55 Qingneng Road, Waigang Town, Jiading District, Shanghai, P.R. China

Haimen Manufacturing Base (wholly-owned subsidiary):

INFINAIR Corporation (Jiangsu)

Building Area: 67,841 m²

Address: No. 1833 Guangzhou Road, Haimen Economic Development Zone, Nantong City, Jiangsu Province, P.R. China

Service Network:

Our marketing and service network spans across China and major global regions, including Shanghai, Beijing, Guangzhou, Shenzhen, Guangxi, Anhui, Shaanxi, Henan, Hunan, Hubei, Fujian, Chengdu, Qingdao, Tianjin, Chongqing, Nanjing, Suzhou, Xinjiang, as well as the Asia-Pacific, North America, Europe, and the Middle East. This extensive network ensures prompt technica support and dependable after-sales services for our customers.

Company Vision:

To become the most trusted brand of professional air movement & control solution provider

Company Mission:

To provide the most reliable and user-friendly air movement & control system.

INFINAIR Dream:

Extraordinary experience of customers, happy life of family members, and the entrepreneurial space of partners.

Awards:

National “Little Giant” Firm

National High-Tech Enterprise

Famous Trademark of Shanghai: **INFINAIR™**

Shanghai Famous Brand

Shanghai Tech Giant Enterprise

Shanghai Specialized and Innovative Enterprise

Shanghai Enterprise Technology Center

SGS ISO9001, ISO14001, ISO45001 Management System Certification



Axial Wheel



250-900mm

General type impeller with an external rotor motor



250-550mm

Explosion proof aluminum impeller (aluminum is one of the non-ferrous metals. When combined with the use of an explosion proof motor, the fan will include AMCA 99 Type C Spark Resistant Construction)



600-900mm

Steel impeller for both general type and explosion proof applications (When used for explosion proof applications, the inlet bell is constructed of aluminum, a non-ferrous metal. Equipped with an explosion proof motor, the fan will include AMCA 99 Type C Spark Resistant Construction)

Product Features



Housing constructed of galvanized steel



Housing finished with epoxy coatings

Stress Tested: High Strength Ensured for Durable Operation

- Computer aided stress analysis
- Precisely positioned stiffeners through repeated tests to enhance the structure
- Amplitude of blade ends greatly reduced
- Deformation or cracking from long-term running prevented

Advanced Design of Forward Swept Blades

- Design optimized for optimal aerodynamic performance
- Balance quality grade as high as G2.5 (AMCA)
- Streamlined and smooth blade curve to contact with the air more efficiently
- Blades properly inclined to an angle to reduce turbulence effectively
- Low sound ensured even with large airflow

Motor Located inside the Airstream + Lubrication-free Design: Suitable for Installation in High Places

- Small size, simple structure, light weight and reliable operation
- Motor located inside the airstream: excellent heat dissipation performance to extend motor's service life
- Lubrication-free motor and maintenance-free fan, suitable for installation in high places
- No belts, hence no need to ascend a height to change belts

More Reasonable Square Housing

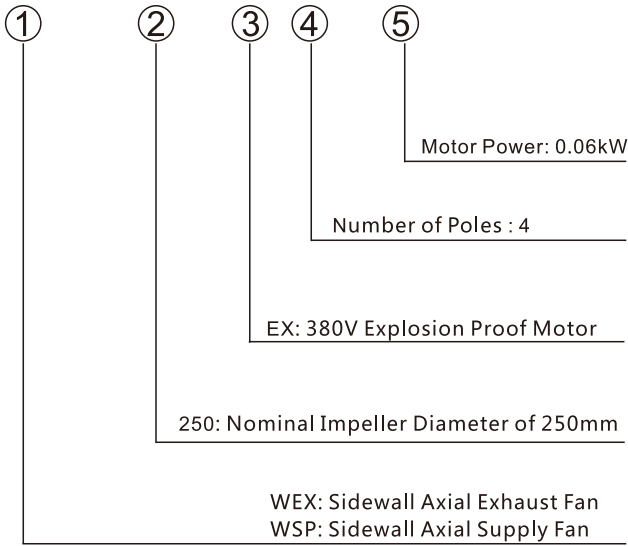
- Square openings made on the concrete wall, brick wall and profiled sheet wall, which is much easier
- Single layer of profiled sheet wall supported by horizontal beam to form a simple but reliable structure

Complete and Practical Accessories

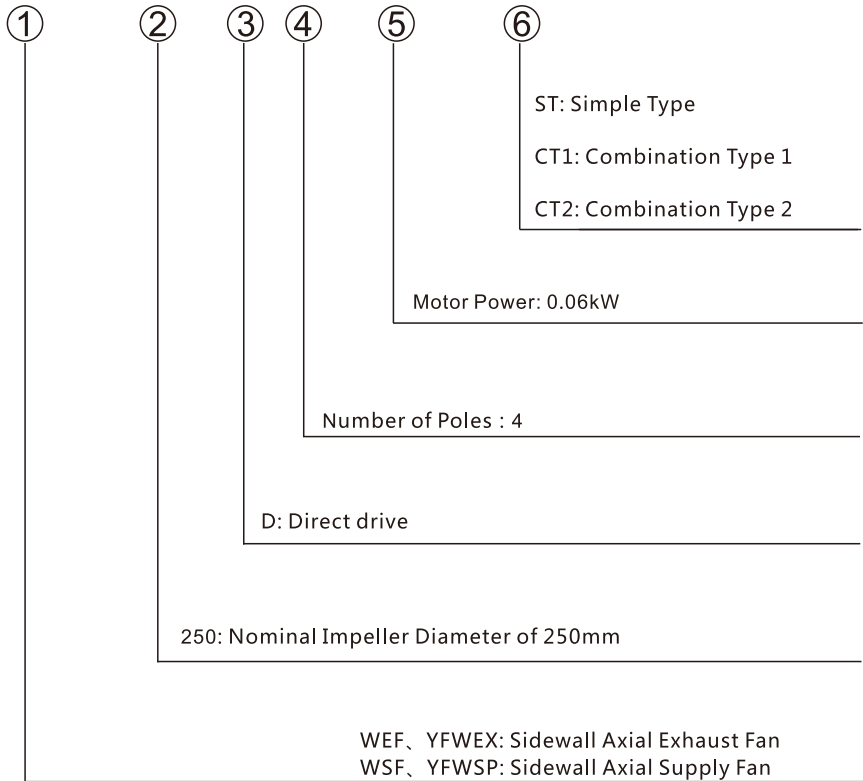
- 45 degree rain cover and stainless steel bird screen; 90 degree rain cover and stainless steel insect screen; safety guard and stainless steel fasteners.
- Gravity backdraft damper, epoxy coated housing and explosion proof structure.

Naming Convention

WEX - 250 EX 4 - 0.06



WEF - 250 D 4 - 0.06 - ST



Standard Accessories

- 45 or 90 Degree Rain Cover
Exhaust fans WEX are equipped with the 45 degree rain cover and with stainless steel bird screen at the outlet. Supply fans WSP are equipped with the 90 degree rain cover and with stainless steel insect screen at the inlet. The two kinds of rain cover above are provided by default and are factory assembled. If there is weatherproof louver in place for the wall, the rain covers may not be needed.
- Safety Guard
To protect the motor and prevent possible injuries.
- Stainless Steel Fasteners
Bolts, nuts and other fasteners are constructed of stainless steel so that they are rust-free and relatively corrosion resistant.
- Wiring Materials for General Type and for Explosion Proof Type
The wiring material for general type is flexible metallic tube and explosion proof coil bobbin for explosion proof type.

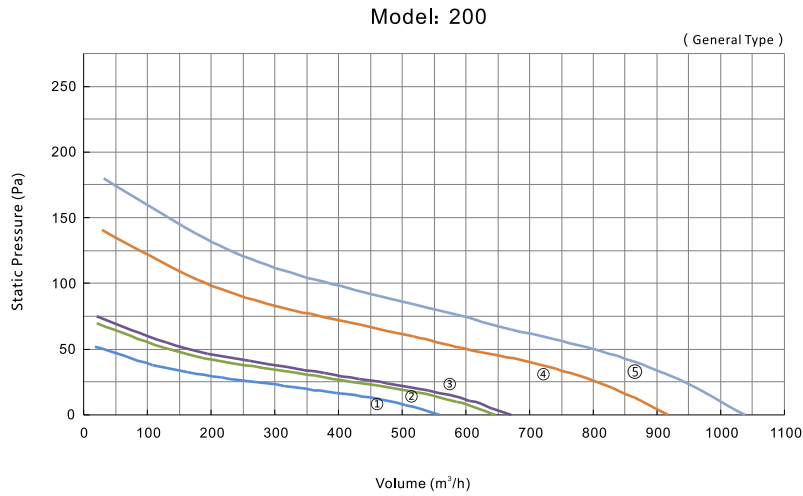
Optional Accessories

- Gravity Backdraft Damper
The aluminum (Optional: epoxy coated) gravity backdraft damper with flange has light weight and low resistance loss. It is simply and reliably operated by gravity.
- Housing Finished with Epoxy Coatings
The housing is treated with electrostatic epoxy coatings to ensure it remains free from rust and corrosion for long term operation.
- Explosion Proof Structure
When used for explosion proof supply and exhaust, an explosion proof structure shall be included. The aluminum impeller and inlet bell are for explosion proof type Model 250~550. The steel impeller and aluminum inlet bell are for explosion proof type Model 600~900. Explosion proof motors in flameproof enclosure ExdIICT4 and ExdIIBT4 are used for general explosion proof type and compound explosion proof type respectively. As the inlet bell or impeller is constructed of aluminum, a non-ferrous metal, the fan includes AMCA 99 Type C Spark Resistant Construction.

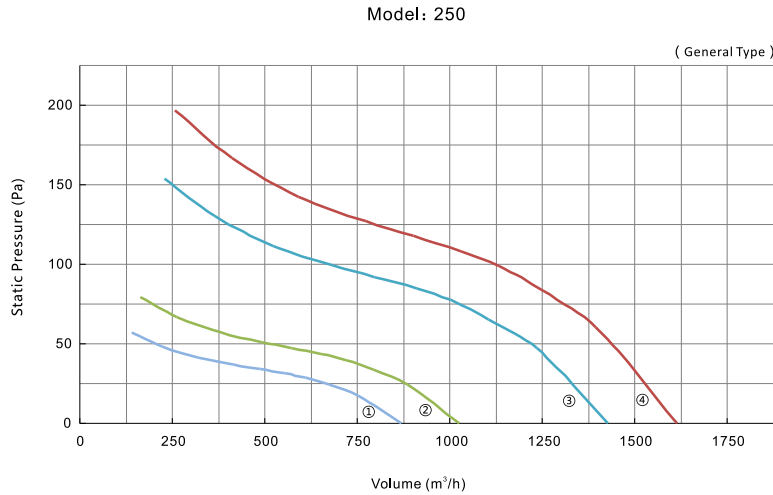
Product Configuration

- **WEX-EX Exhaust Fan**
Standard Accessories: 45° Rain Cover and Bird Screen
Optional Accessories: Gravity Backdraft Damper
- **WSP-EX Supply Fan**
Standard Accessories: 90° Rain Cover and Insect Screen
Optional Accessories: Gravity Backdraft Damper
- **YFWEX / YFWSP -ST Supply / Exhaust Fan of Simple Type**
Standard Accessories: Safety Guard
Optional Accessories: Gravity Shutter, Rainproof Shutter with Insect Screen and Gravity Backdraft Damper
- **YFWEX-CT1 Exhaust Fan of Combination Type 1**
Standard Accessories: 45° Rain Cover and Bird Screen
Optional Accessories: Gravity Shutter, Insect Screen and Gravity Backdraft Damper
- **YFWEX-CT2 Exhaust Fan of Combination Type 2**
Standard Accessories: 90° Rain Cover and Insect Screen
Optional Accessories: Bird Screen, Gravity Shutter and Gravity Backdraft Damper
- **YFWSP-CT2 Supply Fan of Combination Type 2**
Standard Accessories: 90° Rain Cover and Insect Screen
Optional Accessories: Bird Screen, Gravity Shutter and Gravity Backdraft Damper

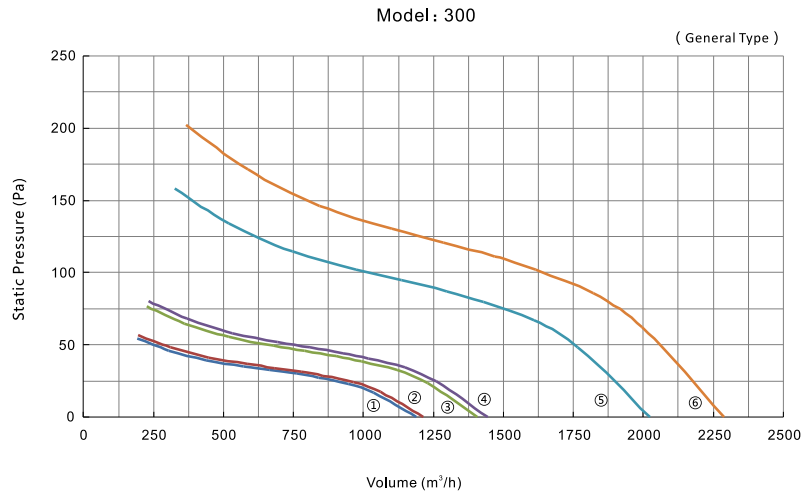
Performance Curve



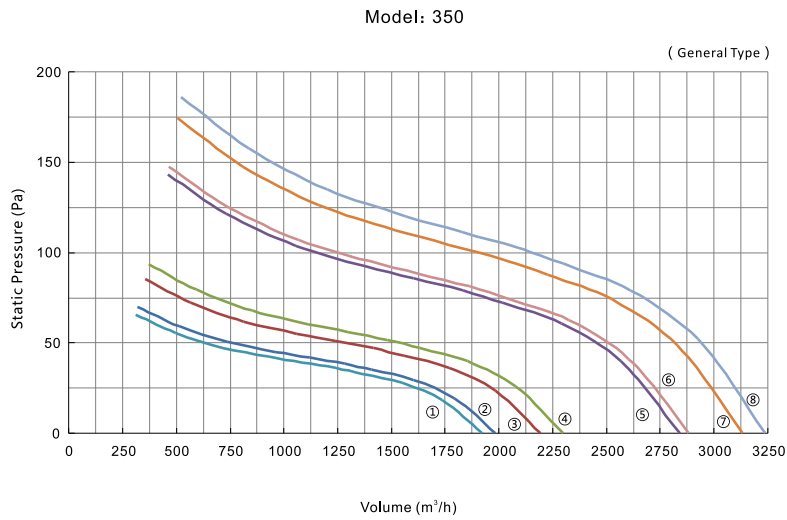
MODEL	VOLT	HERZ	MOTOR	SPEED	CAPACITOR	CURVE NO.
	V					
WEF / WSF - 200D4 - 0.027	220, 230	50	0.027	1400	2	①
WEF / WSF - 200D4 - 0.025	380, 400	50	0.025	1400	/	①
WEF / WSF - 200D4 - 0.028	380, 400	60	0.028	1620	/	②
WEF / WSF - 200D4 - 0.03	220, 230	60	0.03	1680	2	③
WEF / WSF - 200D2 - 0.065	220, 230	50	0.065	2300	2	④
WEF / WSF - 200D2 - 0.065	380, 400	50	0.065	2300	/	④
WEF / WSF - 200D2 - 0.08	220, 230	60	0.08	2600	2	⑤
WEF / WSF - 200D2 - 0.08	380, 400	60	0.08	2600	/	⑤



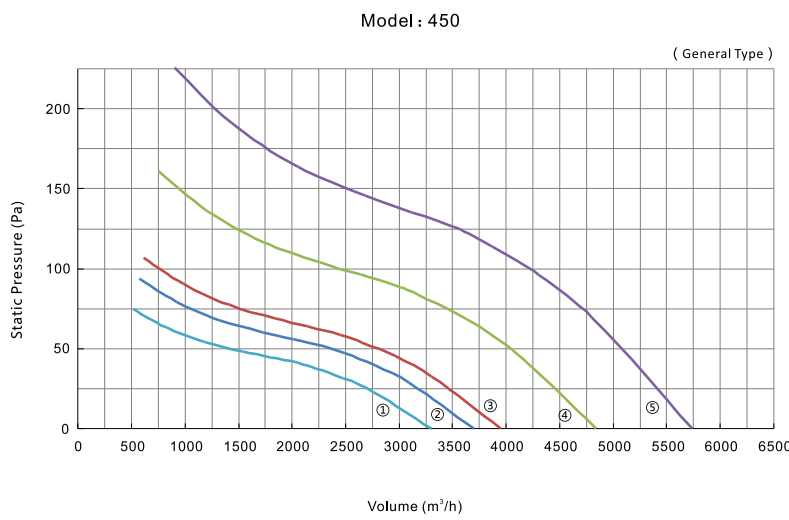
MODEL	VOLT	HERZ	MOTOR	SPEED	CAPACITOR	CURVE NO.
	V					
YFWEX / YFWSP / WEF / WSF - 250D4 - 0.05	220 、 230	50	0.05	1400	2	①
YFWEX / YFWSP / WEF / WSF - 250D4 - 0.05	380 、 400	50	0.05	1400	/	①
YFWEX / YFWSP / WEF / WSF - 250D4 - 0.065	220 、 230	60	0.065	1650	2	②
YFWEX / YFWSP / WEF / WSF - 250D4 - 0.06	380 、 400	60	0.06	1650	/	②
YFWEX / YFWSP / WEF / WSF - 250D2 - 0.1	220 、 230	50	0.1	2300	3	③
YFWEX / YFWSP / WEF / WSF - 250D2 - 0.09	380 、 400	50	0.09	2300	/	③
YFWEX / YFWSP / WEF / WSF - 250D2 - 0.13	220 、 230	60	0.13	2600	3	④
YFWEX / YFWSP / WEF / WSF - 250D2 - 0.116	380 、 400	60	0.116	2600	/	④



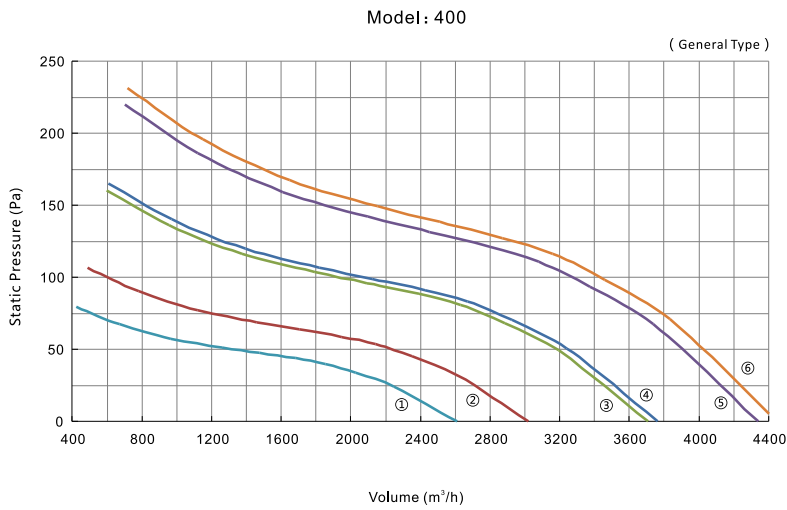
MODEL	VOLT	HERZ	MOTOR	SPEED	CAPACITOR	CURVE NO.
	V					
YFWEX / YFWSP / WEF / WSF - 300 D4 - 0.08	220 、 230	50	0.08	1350	3	①
YFWEX / YFWSP / WEF / WSF - 300 D4 - 0.08	380 、 400	50	0.08	1380	/	②
YFWEX / YFWSP / WEF / WSF - 300 D4 - 0.115	220 、 230	60	0.115	1600	3	③
YFWEX / YFWSP / WEF / WSF - 300 D4 - 0.12	380 、 400	60	0.12	1640	/	④
YFWEX / YFWSP / WEF / WSF - 300 D2 - 0.125	220 、 230	50	0.125	2300	4	⑤
YFWEX / YFWSP / WEF / WSF - 300 D2 - 0.115	380 、 400	50	0.115	2300	/	⑤
YFWEX / YFWSP / WEF / WSF - 300 D2 - 0.155	220 、 230	60	0.155	2600	4	⑥
YFWEX / YFWSP / WEF / WSF - 300 D2 - 0.15	380 、 400	60	0.15	2600	/	⑥



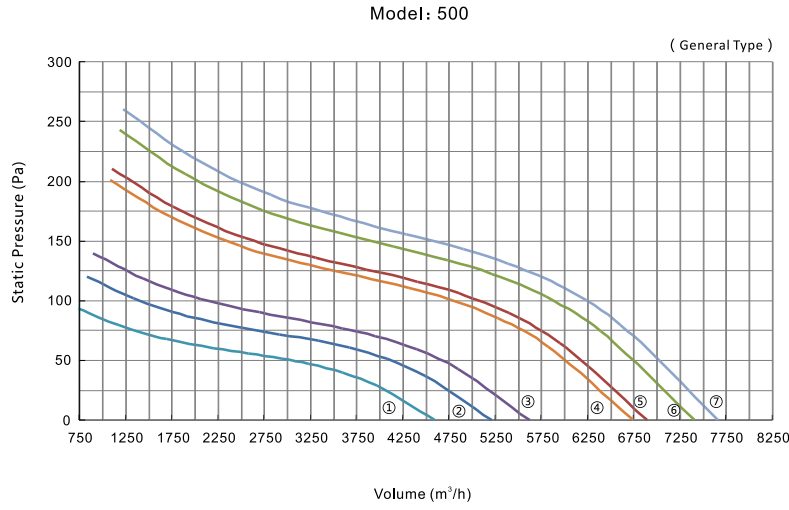
MODEL	VOLT	HERZ	MOTOR	SPEED	CAPACITOR	CURVE NO.
	V	Hz	kW	r/min	uf	#
YFWEX / YFWSP / WEF / WSF- 350 D6 - 0. 07	380 、 400	50	0. 07	920	/	①
YFWEX / YFWSP / WEF / WSF- 350 D6 - 0. 08	220 、 230	50	0. 08	950	3	②
YFWEX / YFWSP / WEF / WSF- 350 D6 - 0. 08	380 、 400	60	0. 08	1050	/	③
YFWEX / YFWSP / WEF / WSF- 350 D6 - 0. 083	220 、 230	60	0. 083	1100	3	④
YFWEX / YFWSP / WEF / WSF- 350 D4 - 0. 135	380 、 400	50	0. 135	1360	/	⑤
YFWEX / YFWSP / WEF / WSF- 350 D4 - 0. 135	220 、 230	50	0. 135	1380	3	⑥
YFWEX / YFWSP / WEF / WSF- 350 D4 - 0. 17	380 、 400	60	0. 17	1500	/	⑦
YFWEX / YFWSP / WEF / WSF- 350 D4 - 0. 19	220 、 230	60	0. 19	1550	/	⑧



MODEL	VOLT	HERZ	MOTOR	SPEED	CAPACITOR	CURVE NO.
	V	Hz	kW	r/min	uf	#
YFWEX / YFWSP / WEF / WSF- 450 D6 - 0. 135	220 、 230	50	0. 135	920	6	①
YFWEX / YFWSP / WEF / WSF- 450 D6 - 0. 135	380 、 400	50	0. 135	920	/	①
YFWEX / YFWSP / WEF / WSF- 450 D6 - 0. 14	380 、 400	60	0. 14	1030	/	②
YFWEX / YFWSP / WEF / WSF- 450 D6 - 0. 17	220 、 230	60	0. 17	1100	6	③
YFWEX / YFWSP / WEF / WSF- 450 D4 - 0. 23	220 、 230	50	0. 23	1350	7	④
YFWEX / YFWSP / WEF / WSF- 450 D4 - 0. 23	380 、 400	50	0. 23	1350	/	④
YFWEX / YFWSP / WEF / WSF- 450 D4 - 0. 28	220 、 230	60	0. 28	1600	7	⑤
YFWEX / YFWSP / WEF / WSF- 450 D4 - 0. 28	380 、 400	60	0. 28	1600	/	⑤

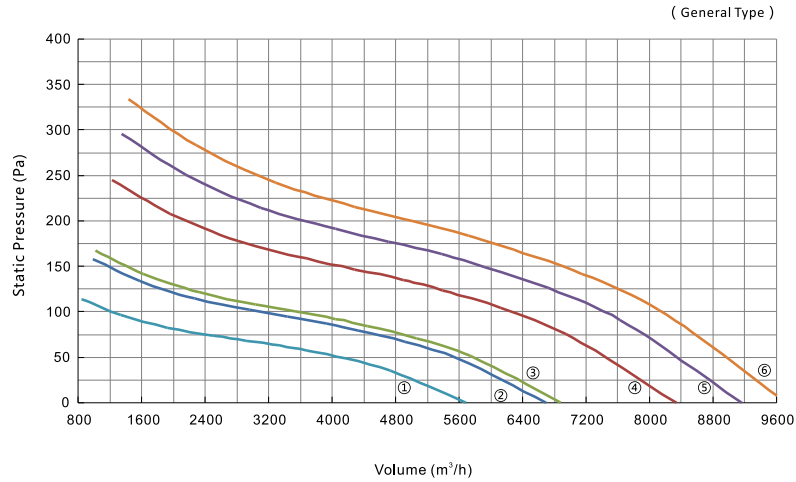


MODEL	VOLT	HERZ	MOTOR	SPEED	CAPACITOR	CURVE NO.
	V	Hz	kW	r/min	uf	#
YFWEX / YFWSP / WEF / WSF- 400 D6 - 0. 11	220 、 230	50	0. 11	950	4	①
YFWEX / YFWSP / WEF / WSF- 400 D6 - 0. 11	380 、 400	50	0. 11	950	/	①
YFWEX / YFWSP / WEF / WSF- 400 D6 - 0. 12	220 、 230	60	0. 12	1100	4	②
YFWEX / YFWSP / WEF / WSF- 400 D6 - 0. 135	380 、 400	60	0. 135	1100	/	②
YFWEX / YFWSP / WEF / WSF- 400 D4 - 0. 18	220 、 230	50	0. 18	1350	6	③
YFWEX / YFWSP / WEF / WSF- 400 D4 - 0. 18	380 、 400	50	0. 18	1370	/	④
YFWEX / YFWSP / WEF / WSF- 400 D4 - 0. 26	220 、 230	60	0. 26	1580	6	⑤
YFWEX / YFWSP / WEF / WSF- 400 D4 - 0. 245	380 、 400	60	0. 245	1620	/	⑥



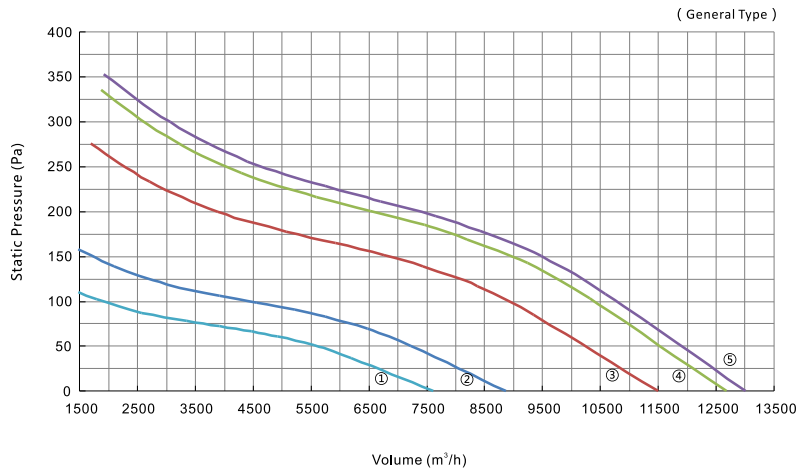
MODEL	VOLT	HERZ	MOTOR	SPEED	CAPACITOR	CURVE NO.
	V	Hz	kW	r/min	uf	#
YFWEX / YFWSP / WEF / WSF- 500 D6 - 0. 22	220 、 230	50	0. 22	900	6	①
YFWEX / YFWSP / WEF / WSF- 500 D6 - 0. 22	380 、 400	50	0. 22	900	/	①
YFWEX / YFWSP / WEF / WSF- 500 D6 - 0. 25	220 、 230	60	0. 25	1020	6	②
YFWEX / YFWSP / WEF / WSF- 500 D6 - 0. 25	380 、 400	60	0. 25	1100	/	③
YFWEX / YFWSP / WEF / WSF- 500 D4 - 0. 42	220 、 230	50	0. 42	1320	10	④
YFWEX / YFWSP / WEF / WSF- 500 D4 - 0. 42	380 、 400	50	0. 42	1350	/	⑤
YFWEX / YFWSP / WEF / WSF- 500 D4 - 0. 5	220 、 230	60	0. 5	1450	10	⑥
YFWEX / YFWSP / WEF / WSF- 500 D4 - 0. 5	380 、 400	60	0. 5	1500	/	⑦

Model: 550



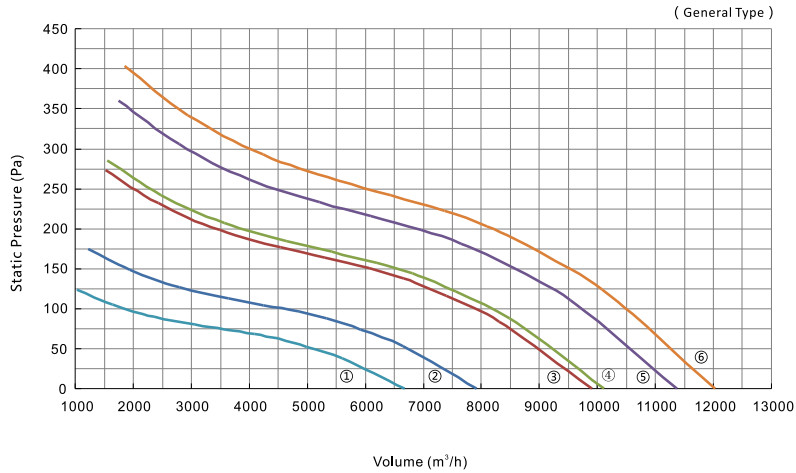
MODEL	VOLT	HERZ	MOTOR	SPEED	CAPACITOR	CURVE NO.
	V	Hz	kW	r/min	uf	#
YFWEX / YFWSP / WEF / WSF - 550 D6 - 0. 28	220 、 230	50	0. 28	900	6	①
YFWEX / YFWSP / WEF / WSF - 550 D6 - 0. 32	230 、 380	50	0. 32	900	/	①
YFWEX / YFWSP / WEF / WSF - 550 D6 - 0. 465	220 、 230	60	0. 465	1060	6	②
YFWEX / YFWSP / WEF / WSF - 550 D6 - 0. 44	380 、 400	60	0. 44	1090	/	③
YFWEX / YFWSP / WEF / WSF - 550 D4 - 0. 55	220 、 230	50	0. 55	1320	12	④
YFWEX / YFWSP / WEF / WSF - 550 D4 - 0. 55	380 、 400	50	0. 55	1320	/	④
YFWEX / YFWSP / WEF / WSF - 550 D4 - 0. 725	220 、 230	60	0. 725	1450	12	⑤
YFWEX / YFWSP / WEF / WSF - 550 D4 - 0. 725	380 、 400	60	0. 725	1540	/	⑥

Model: 630



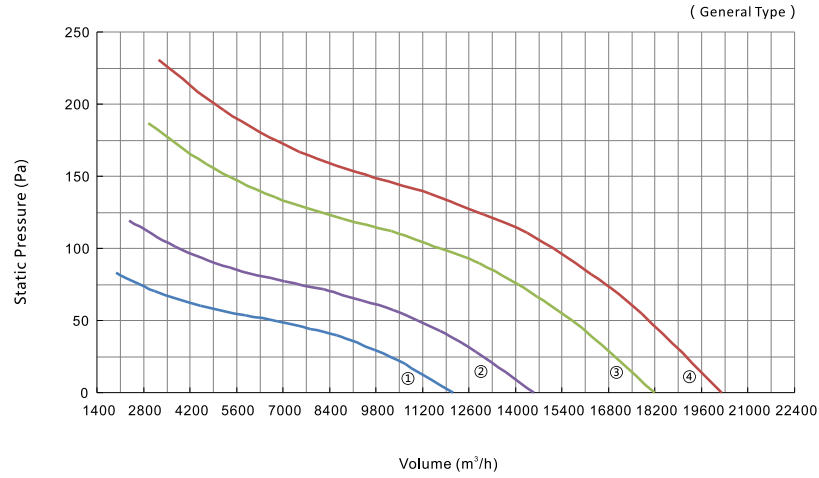
MODEL	VOLT	HERZ	MOTOR	SPEED	CAPACITOR	CURVE NO.
	V	Hz	kW	r/min	uf	#
YFWEX / YFWSP / WEF / WSF - 630 D6 - 0. 52	220 、 230	50	0. 52	900	12	①
YFWEX / YFWSP / WEF / WSF - 630 D6 - 0. 55	380 、 400	50	0. 55	900	/	①
YFWEX / YFWSP / WEF / WSF - 630 D6 - 0. 705	220 、 230	60	0. 705	1050	12	②
YFWEX / YFWSP / WEF / WSF - 630 D6 - 0. 74	380 、 400	60	0. 74	1050	/	②
YFWEX / YFWSP / WEF / WSF - 630 D4 - 0. 85	220 、 230	50	0. 85	1360	16	③
YFWEX / YFWSP / WEF / WSF - 630 D4 - 0. 85	380 、 400	50	0. 85	1360	/	③
YFWEX / YFWSP / WEF / WSF - 630 D4 - 1. 15	220 、 230	60	1. 15	1500	16	④
YFWEX / YFWSP / WEF / WSF - 630 D4 - 1. 01	380 、 400	60	1. 01	1540	/	⑤

Model: 600



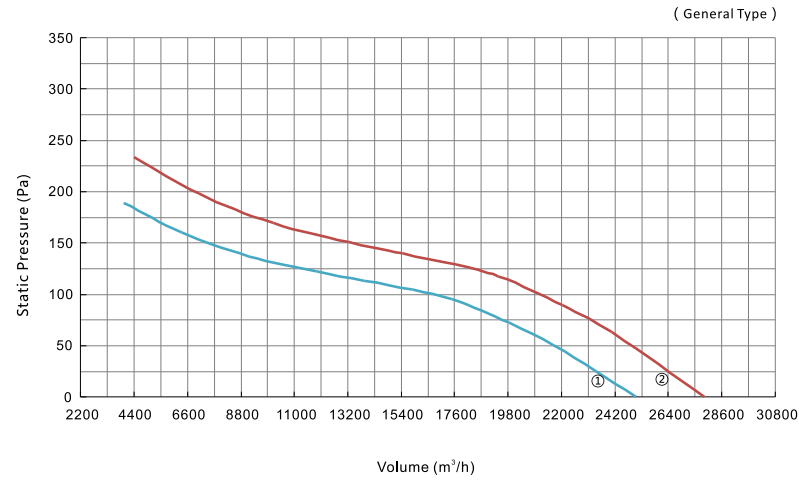
MODEL	VOLT	HERZ	MOTOR	SPEED	CAPACITOR	CURVE NO.
	V	Hz	kW	r/min	uf	#
YFWEX / YFWSP / WEF / WSF - 600 D6 - 0. 5	220 、 230	50	0. 5	910	12	①
YFWEX / YFWSP / WEF / WSF - 600 D6 - 0. 5	380 、 400	50	0. 5	910	/	①
YFWEX / YFWSP / WEF / WSF - 600 D6 - 0. 64	220 、 230	60	0. 64	1080	12	②
YFWEX / YFWSP / WEF / WSF - 600 D6 - 0. 575	380 、 400	60	0. 575	1080	/	②
YFWEX / YFWSP / WEF / WSF - 600 D4 - 0. 8	380 、 400	50	0. 8	1350	/	③
YFWEX / YFWSP / WEF / WSF - 600 D4 - 0. 8	220 、 230	50	0. 8	1380	16	④
YFWEX / YFWSP / WEF / WSF - 600 D4 - 1	380 、 400	60	1	1550	/	⑤
YFWEX / YFWSP / WEF / WSF - 600 D4 - 0. 92	220 、 230	60	0. 92	1640	16	⑥

Model: 710



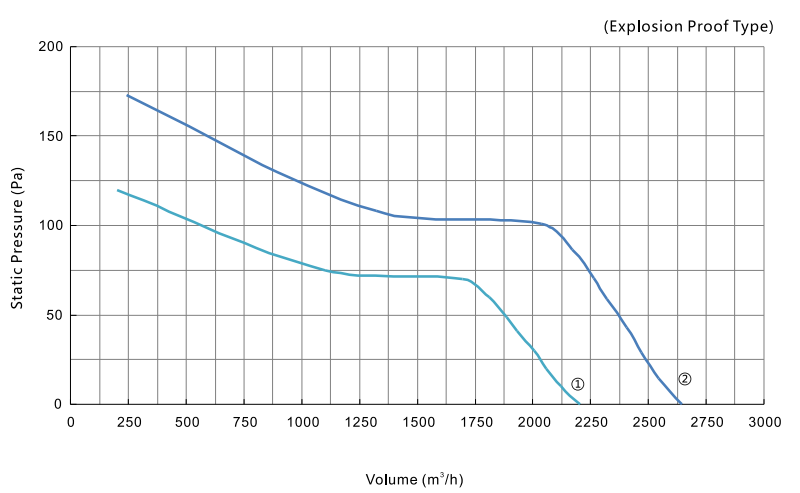
MODEL	VOLT	HERZ	MOTOR	SPEED	CAPACITOR	CURVE NO.
	V	Hz	kW	r/min	uf	#
YFWEX / YFWSP / WEF / WSF - 710D6 - 0. 75	380 、 400	50	0. 75	600	/	①
YFWEX / YFWSP / WEF / WSF - 710D6 - 0. 9	380 、 400	60	0. 9	720	/	②
YFWEX / YFWSP / WEF / WSF - 710D6 - 1. 1	380 、 400	50	1. 1	900	/	③
YFWEX / YFWSP / WEF / WSF - 710D6 - 1. 25	380 、 400	60	1. 25	1000	/	④

Model: 800



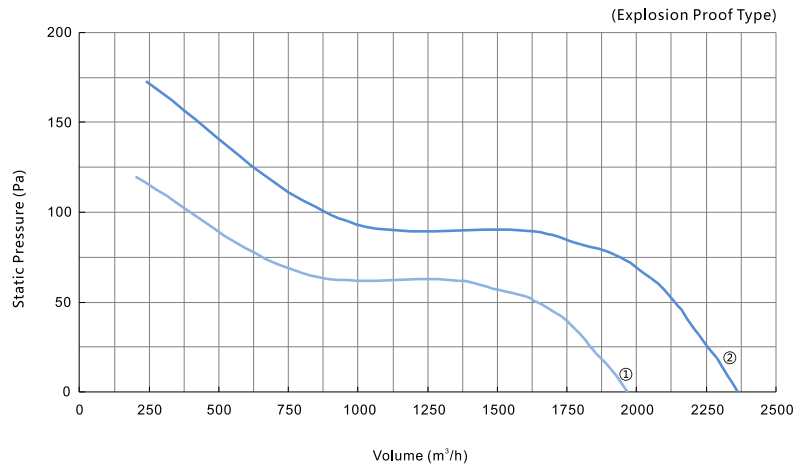
MODEL	VOLT	HERZ	MOTOR	SPEED	CAPACITOR	CURVE NO.
	V	Hz	kW	r/min	uf	#
YFWEX/ YFWSP/ WEF/ WSF- 800 D6- 1. 4	380, 400	50	1.4	900	/	①
YFWEX/ YFWSP/ WEF/ WSF- 800 D6- 1. 7	380, 400	60	1.7	1000	/	②

Model: 300-EX



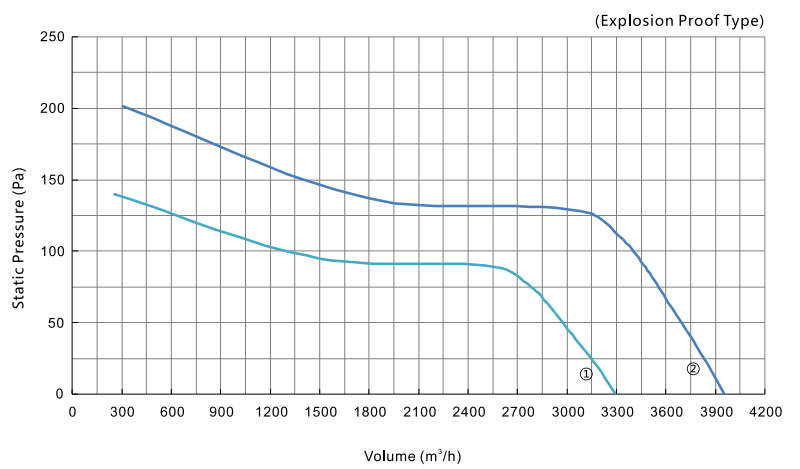
MODEL	VOLT	HERZ	MOTOR	SPEED	CAPACITOR	CURVE NO.
	V	Hz	kW	r/min	uf	#
WEX / WSP - 300EX4 -0.12	380	50	0.12	1450	/	①
WEX / WSP - 300EX4 -0.18	380	60	0.18	1740	/	②

Model: 250-EX

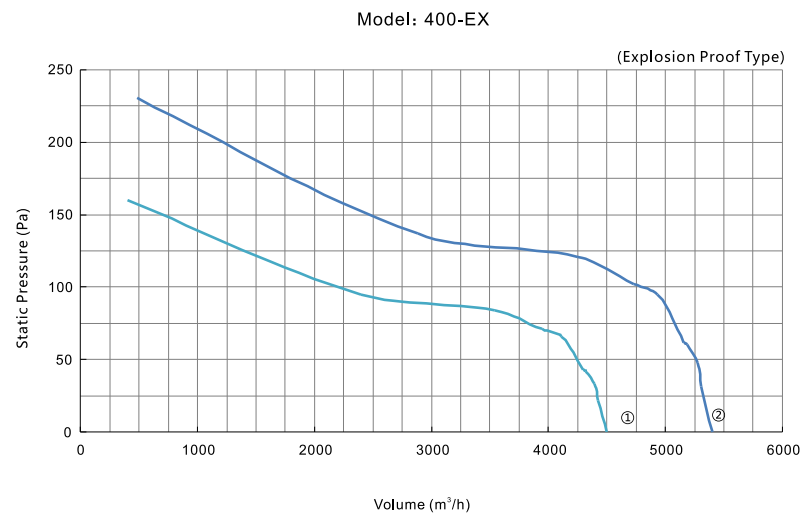


MODEL	VOLT	HERZ	MOTOR	SPEED	CAPACITOR	CURVE NO.
	V	Hz	kW	r/min	uf	#
WEX / WSP - 250EX4 -0.12	380	50	0.12	1450	/	①
WEX / WSP - 250EX4 -0.18	380	60	0.18	1740	/	②

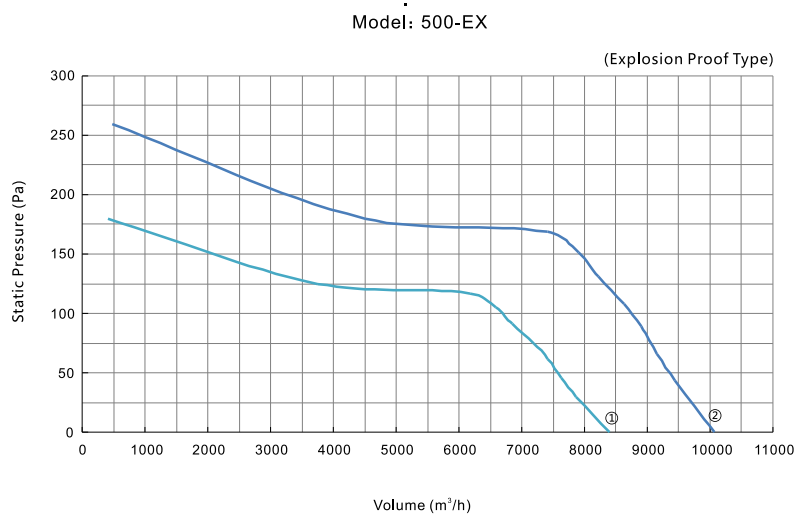
Model: 350-EX



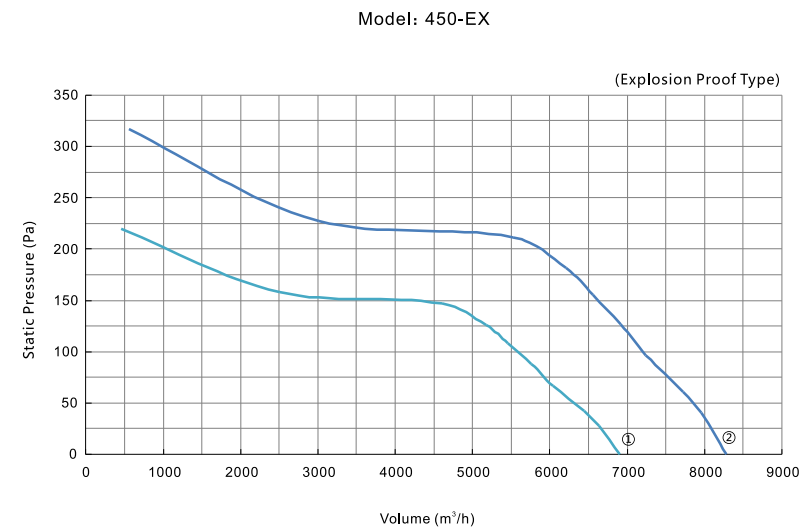
MODEL	VOLT	HERZ	MOTOR	SPEED	CAPACITOR	CURVE NO.
	V	Hz	kW	r/min	uf	#
WEX / WSP - 350EX4 -0.12	380	50	0.12	1450	/	①
WEX / WSP - 350EX4 -0.25	380	60	0.25	1740	/	②



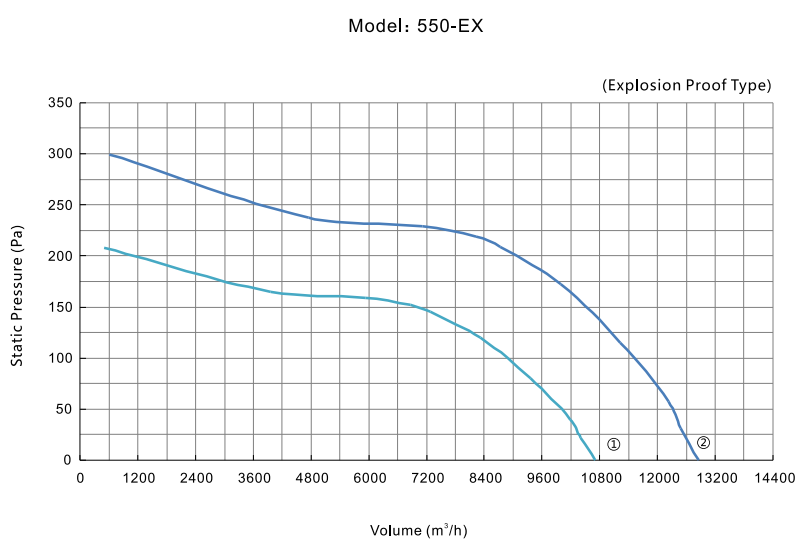
MODEL	VOLT	HERZ	MOTOR	SPEED	CAPACITOR	CURVE NO.
	V	Hz	kW	r/min	uf	#
WEX / WSP - 400EX4 -0.25	380	50	0.25	1450	/	①
WEX / WSP - 400EX4 -0.37	380	60	0.37	1740	/	②



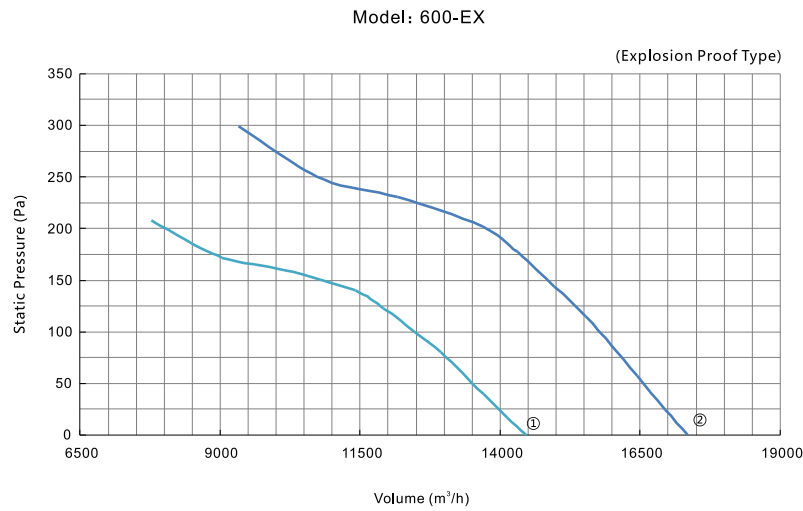
MODEL	VOLT	HERZ	MOTOR	SPEED	CAPACITOR	CURVE NO.
	V	Hz	kW	r/min	uf	#
WEX / WSP - 500EX4 -0.55	380	50	0.55	1450	/	①
WEX / WSP - 500EX4 -1.1	380	60	1.1	1740	/	②



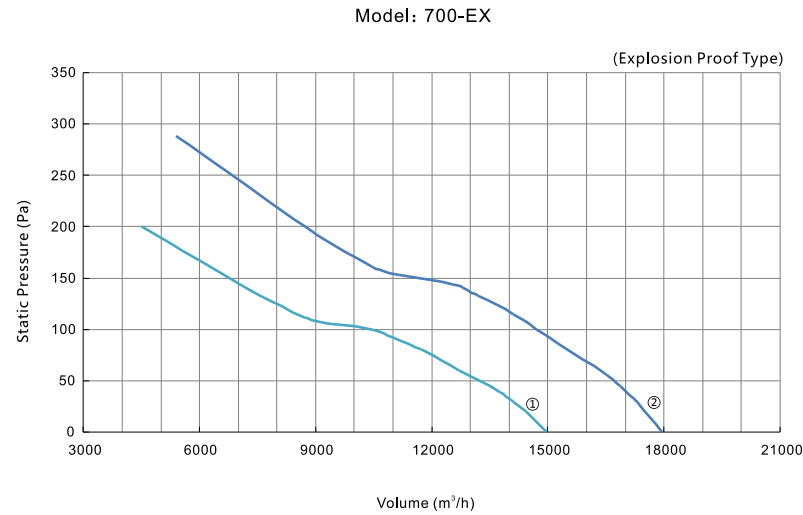
MODEL	VOLT	HERZ	MOTOR	SPEED	CAPACITOR	CURVE NO.
	V	Hz	kW	r/min	uf	#
WEX / WSP - 450EX4 -0.37	380	50	0.37	1450	/	①
WEX / WSP - 450EX4 -0.75	380	60	0.75	1740	/	②



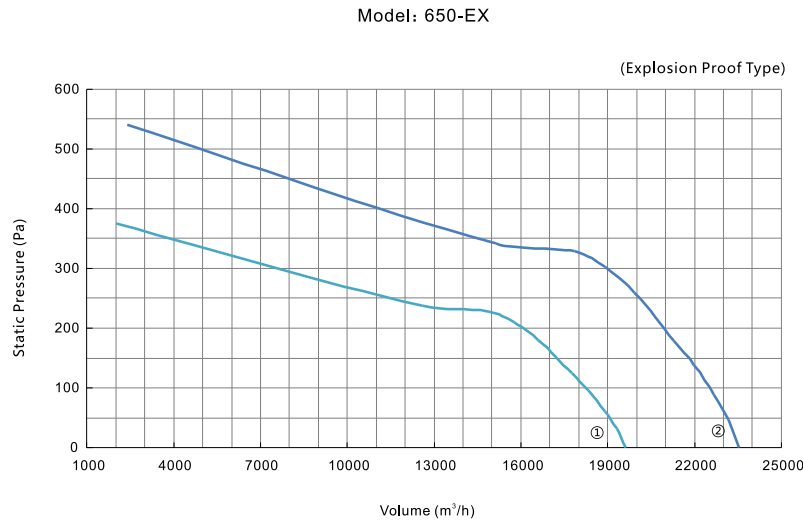
MODEL	VOLT	HERZ	MOTOR	SPEED	CAPACITOR	CURVE NO.
	V	Hz	kW	r/min	uf	#
WEX / WSP - 550EX4 -0.75	380	50	0.75	1450	/	①
WEX / WSP - 550EX4 -1.1	380	60	1.1	1740	/	②



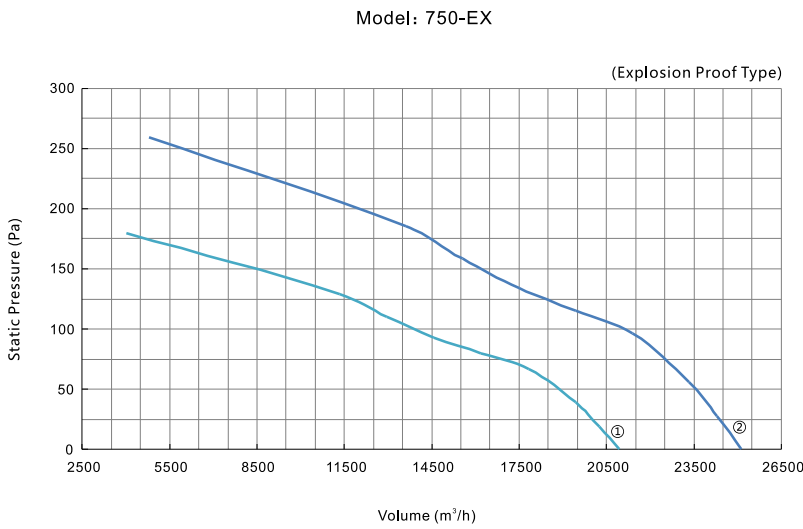
MODEL	VOLT	HERZ	MOTOR	SPEED	CAPACITOR	CURVE NO.
	V	Hz	kW	r/min	uf	#
WEX / WSP - 600EX4 -1.1	380	50	1.1	1450	/	①
WEX / WSP - 600EX4 -2.2	380	60	2.2	1740	/	②



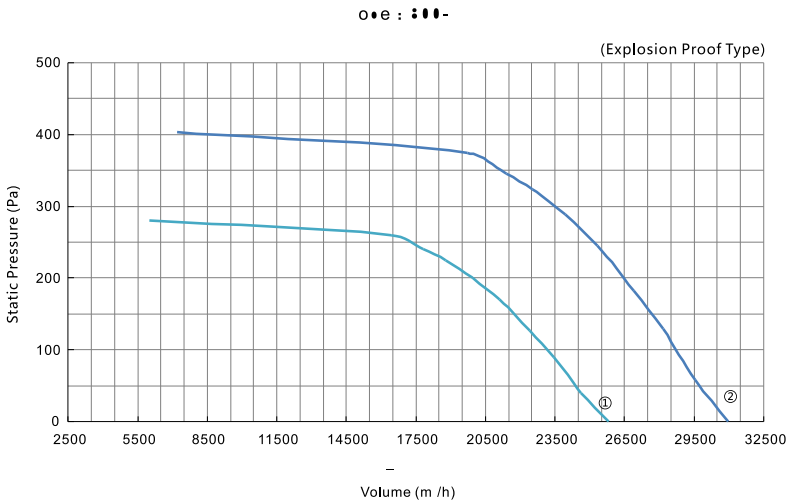
风机型号	电压	频率	电机功率	转速	电容	曲线
MODEL	VOLT	HERZ	MOTOR	SPEED	CAPACITOR	CURVE NO.
	V	Hz	kW	r/min	uf	#
WEX / WSP- 700EX6 -0.75	380	50	0.75	960	/	①
WEX / WSP- 700EX6 -1.1	380	60	1.1	1152	/	②



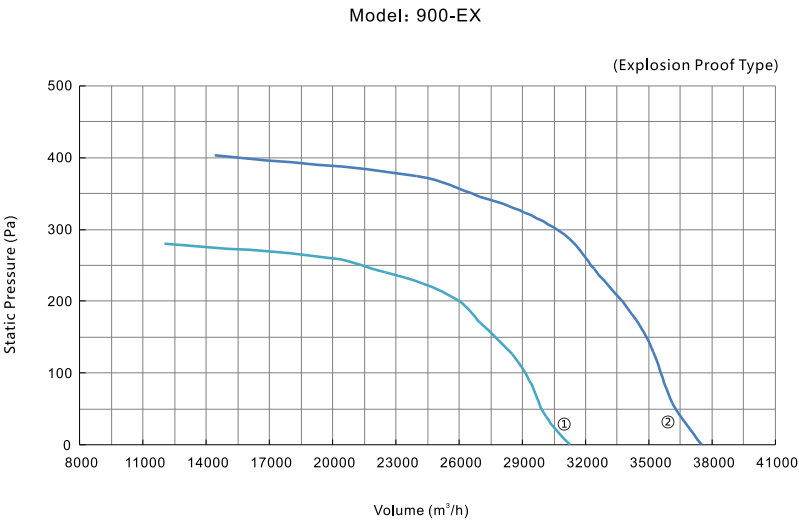
MODEL	VOLT	HERZ	MOTOR	SPEED	CAPACITOR	CURVE NO.
	V	Hz	kW	r/min	uf	#
WEX / WSP-650EX4 -2.2	380	50	2.2	1450	/	①
WEX / WSP-650EX4 -4	380	60	4	1740	/	②



MODEL	VOLT	HERZ	MOTOR	SPEED	CAPACITOR	CURVE NO.
	V	Hz	kW	r/min	uf	#
WEX / WSP - 750EX6 -1.1	380	50	1.1	960	/	①
WEX / WSP - 750EX6 -2.2	380	60	2.2	1152	/	②



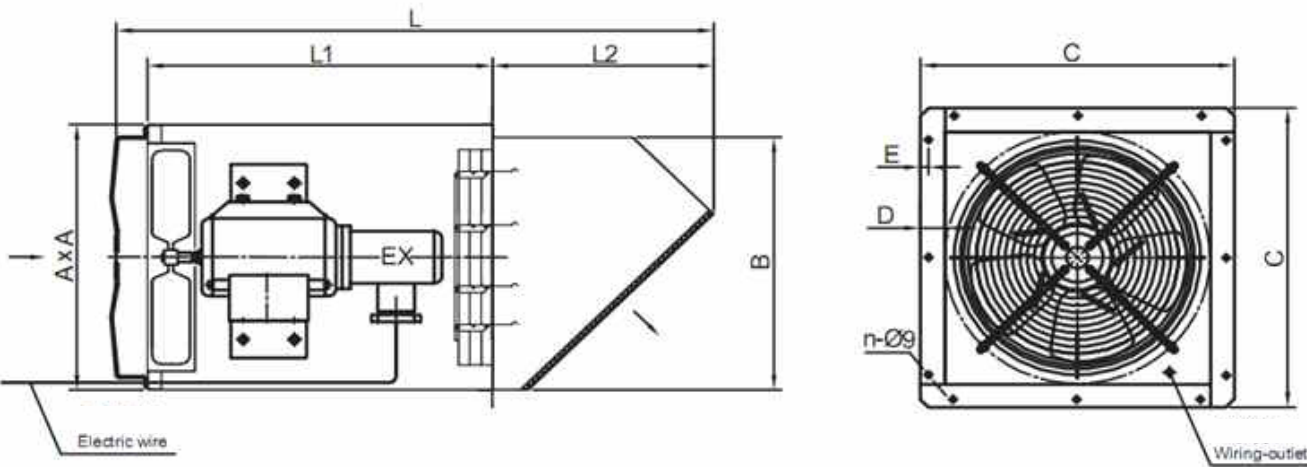
MODEL	VOLT	HERZ	MOTOR	SPEED	CAPACITOR	CURVE NO.
	V	Hz	kW	r/min	uf	#
WEX / WSP - 800EX6 -2.2	380	50	2.2	960	/	①
WEX / WSP - 800EX6 -4	380	60	4	1152	/	②



MODEL	VOLT	HERZ	MOTOR	SPEED	CAPACITOR	CURVE NO.
	V	Hz	kW	r/min	uf	#
WEX / WSP - 900EX6 -3	380	50	3	960	/	①
WEX / WSP - 900EX6 -5.5	380	60	5.5	1152	/	②

Fan Dimensions

- WEX-EX Exhaust Fan

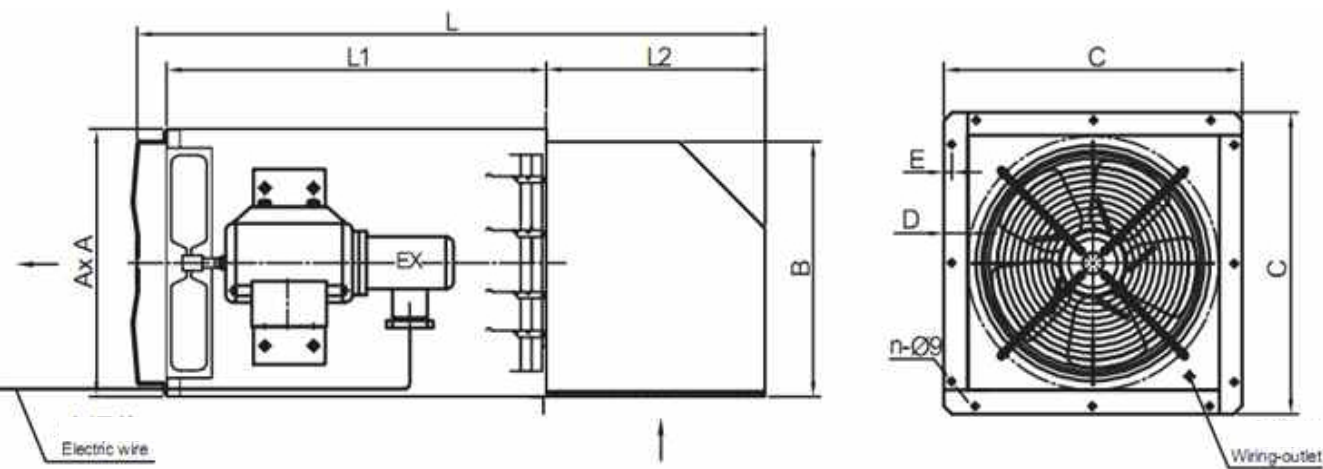


mm

MODEL	A	L1	L2	L	B	C	D	E	n	(Kg)
WEX-250Ex	320	465	295	830	290	400	40	13	8	32
WEX-300Ex	370	465	325	860	340	450	40	13	12	35
WEX-350Ex	420	465	365	900	390	500	40	13	12	38
WEX-400Ex	470	505	395	970	440	550	40	13	12	43
WEX-450Ex	520	505	435	1010	490	600	40	13	12	50
WEX-500Ex	570	520	470	1060	540	650	40	13	12	65
WEX-550Ex	620	520	495	1105	590	700	40	13	12	70
WEX-600Ex	770	490	595	1175	735	865	50	15	20	112
WEX-650Ex	810	595	620	1305	780	910	50	15	20	140
WEX-700Ex	855	510	640	1240	825	955	50	15	20	133
WEX-750Ex	920	550	675	1315	890	1020	50	15	24	145
WEX-800Ex	980	645	710	1465	945	1075	50	15	24	185
WEX-900Ex	1075	630	760	1500	1045	1175	50	15	24	230

Note: All the weight and dimensional data are for reference only, subject to factory confirmation.

● WSP-EX Supply Fan

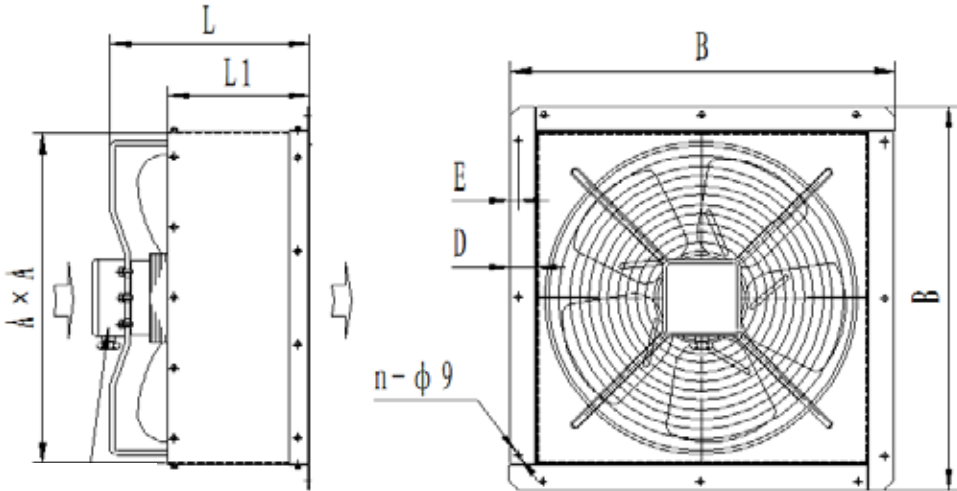


mm

MODEL	A	L1	L2	L	B	C	D	E	n	(Kg)
WSP-250Ex	320	510	325	905	290	400	40	13	8	35
WSP-300Ex	370	540	365	975	340	450	40	13	12	40
WSP-350Ex	420	570	395	1035	390	500	40	13	12	45
WSP-400Ex	470	595	415	1080	440	550	40	13	12	51
WSP-450Ex	520	595	465	1130	490	600	40	13	12	62
WSP-500Ex	570	610	495	1175	540	650	40	13	12	78
WSP-550Ex	620	610	515	1215	590	700	40	13	12	83
WSP-600Ex	770	575	615	1280	745	865	50	15	20	135
WSP-650Ex	810	655	615	1360	785	910	50	15	20	155
WSP-700Ex	855	590	625	1305	830	955	50	15	20	158
WSP-750Ex	920	605	625	1320	900	1020	50	15	24	160
WSP-800Ex	975	715	645	1470	955	1075	50	15	24	200
WSP-900Ex	1075	725	645	1480	1055	1175	50	15	24	250

Note: All the weight and dimensional data are for reference only, subject to factory confirmation.

● YFWEX-ST Exhaust Fan of Simple Type

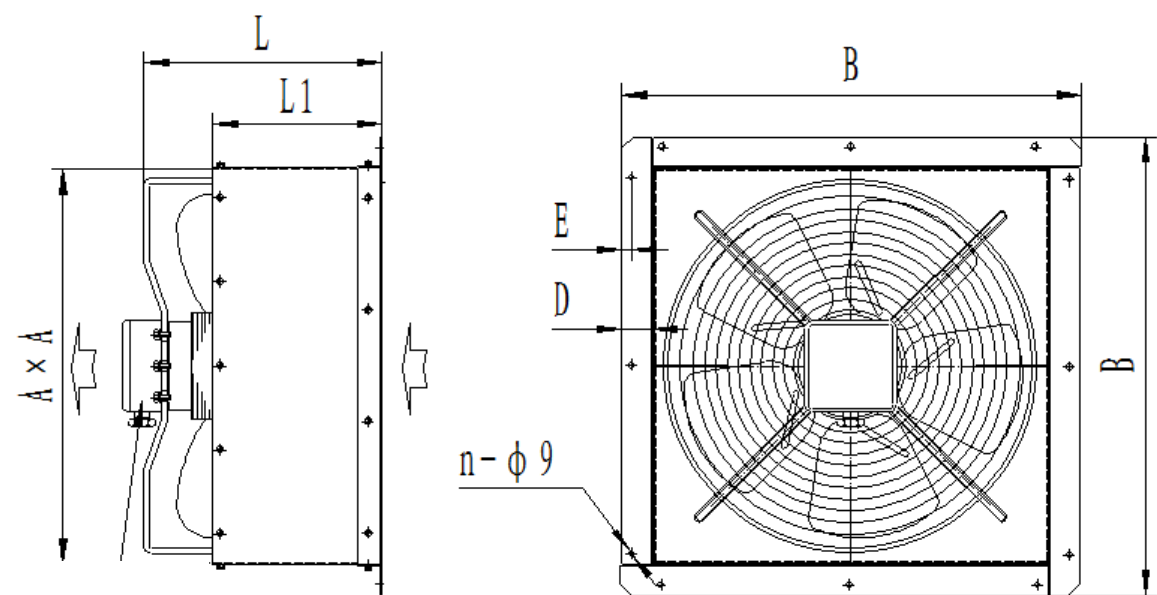


mm

MODEL	A	L1	L	B	D	E	n	(Kg)
YFWEX-250-ST	320	200	320	400	40	13	8	15
YFWEX-300-ST	370	200	320	450	40	13	12	18
YFWEX-350-ST	420	220	336	500	40	13	12	22
YFWEX-400-ST	470	220	350	550	40	13	12	27
YFWEX-450-ST	520	220	350	600	40	13	12	33
YFWEX-500-ST	570	220	350	650	40	13	12	40
YFWEX-550-ST	620	220	360	700	40	13	12	48
YFWEX-600-ST	765	220	360	865	50	15	20	57
YFWEX-630-ST	810	350	490	910	50	15	20	72
YFWEX-710-ST	855	375	465	955	50	15	20	90
YFWEX-800-ST	975	405	595	1075	50	15	24	110

Note: All the weight and dimensional data are for reference only, subject to factory confirmation.

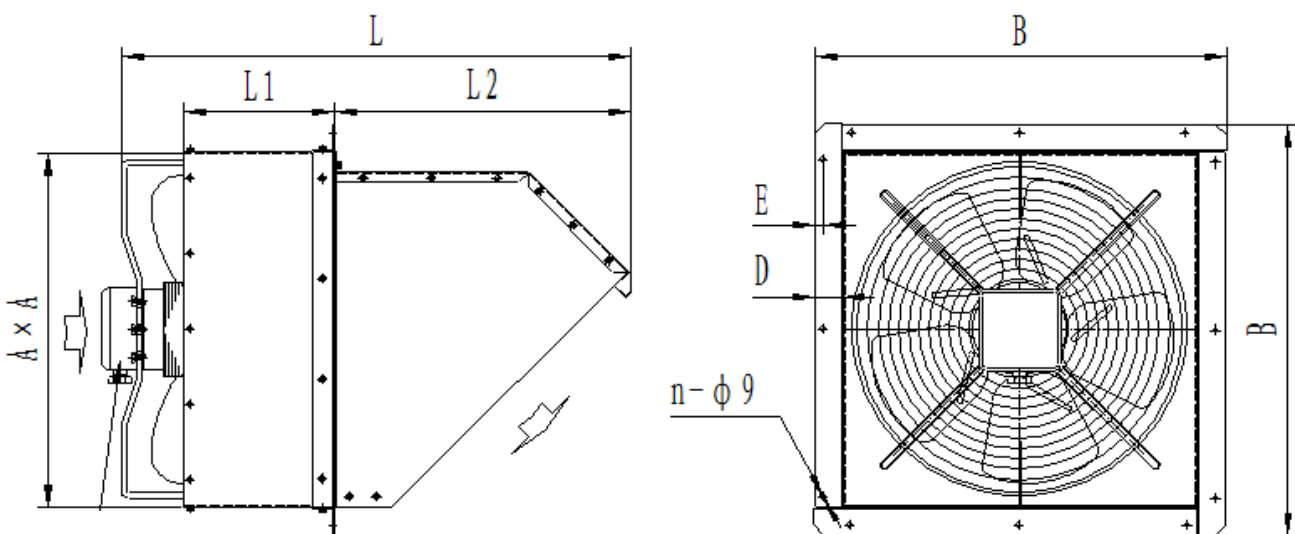
● YFWSP –ST Supply Fan of Simple Type



MODEL	A	L1	L	B	D	E	n	(Kg)
YFWSP-250-ST	320	200	320	400	40	13	8	15
YFWSP-300-ST	370	200	320	450	40	13	12	18
YFWSP-350-ST	420	240	356	500	40	13	12	23
YFWSP-400-ST	470	240	370	550	40	13	12	28
YFWSP-450-ST	520	260	390	600	40	13	12	34
YFWSP-500-ST	570	260	390	650	40	13	12	41
YFWSP-550-ST	620	260	400	700	40	13	12	49
YFWSP-600-ST	765	260	400	865	50	15	20	58
YFWSP-630-ST	810	350	495	910	50	15	20	72
YFWSP-710-ST	855	375	465	955	50	15	20	90
YFWSP-800-ST	975	405	595	1075	50	15	24	110

Note: All the weight and dimensional data are for reference only, subject to factory confirmation.

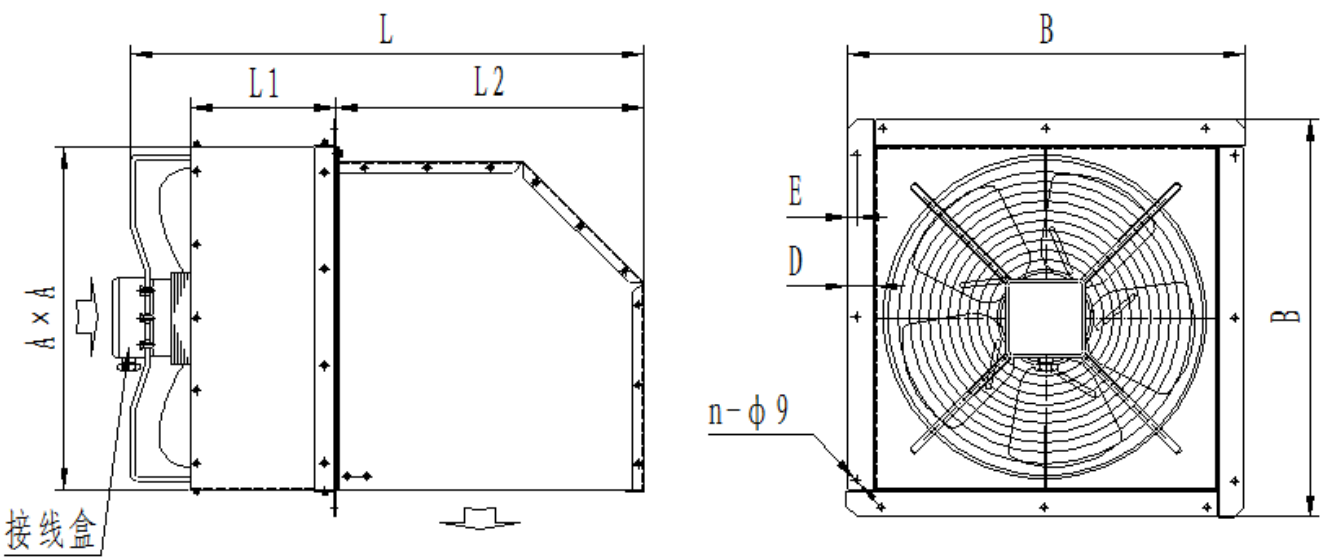
● YFWEX–CT1 Exhaust Fan of Simple Type



MODEL	A	L1	L2	L	B	D	E	n	(Kg)
YFWEX-250-CT1	320	200	295	615	400	40	13	8	18
YFWEX-300-CT1	370	200	330	655	450	40	13	12	21
YFWEX-350-CT1	420	220	365	700	500	40	13	12	26
YFWEX-400-CT1	470	220	400	750	550	40	13	12	32
YFWEX-450-CT1	520	220	435	785	600	40	13	12	39
YFWEX-500-CT1	570	220	470	820	650	40	13	12	47
YFWEX-550-CT1	620	220	500	860	700	40	13	12	56
YFWEX-600-CT1	765	220	600	960	865	50	15	20	74
YFWEX-630-CT1	810	350	620	1100	910	50	15	20	90
YFWEX-710-CT1	855	375	645	1110	955	50	15	20	110
YFWEX-800-CT1	975	405	715	1310	1075	50	15	24	135

Note: All the weight and dimensional data are for reference only, subject to factory confirmation.

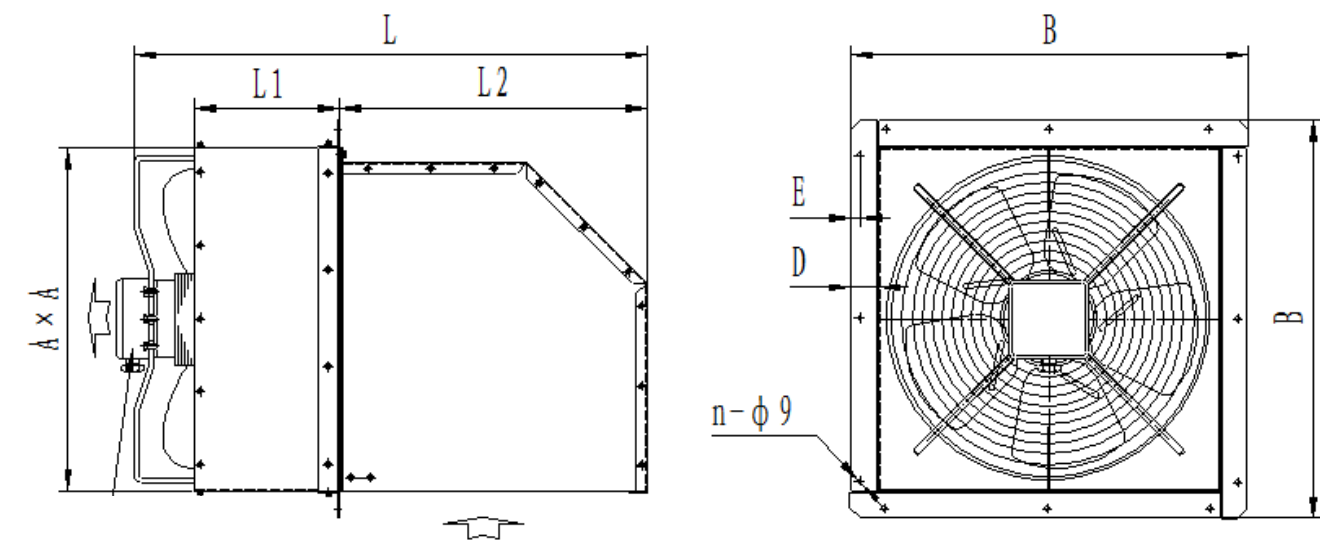
● YFWEX-CT2 Exhaust Fan of Simple Type



MODEL	A	L1	L2	L	B	D	E	n	(Kg)
YFWEX-250-CT2	320	200	325	645	400	40	13	8	19
YFWEX-300-CT2	370	200	365	690	450	40	13	12	23
YFWEX-350-CT2	420	220	395	730	500	40	13	12	28
YFWEX-400-CT2	470	220	415	765	550	40	13	12	34
YFWEX-450-CT2	520	220	465	815	600	40	13	12	42
YFWEX-500-CT2	570	220	490	840	650	40	13	12	50
YFWEX-550-CT2	620	220	515	875	700	40	13	12	60
YFWEX-600-CT2	765	220	615	975	865	50	15	20	81
YFWEX-630-CT2	810	350	615	1100	910	50	15	20	100
YFWEX-710-CT2	855	375	625	1090	955	50	15	20	120
YFWEX-800-CT2	975	405	645	1240	1075	50	15	24	146

Note: All the weight and dimensional data are for reference only, subject to factory confirmation.

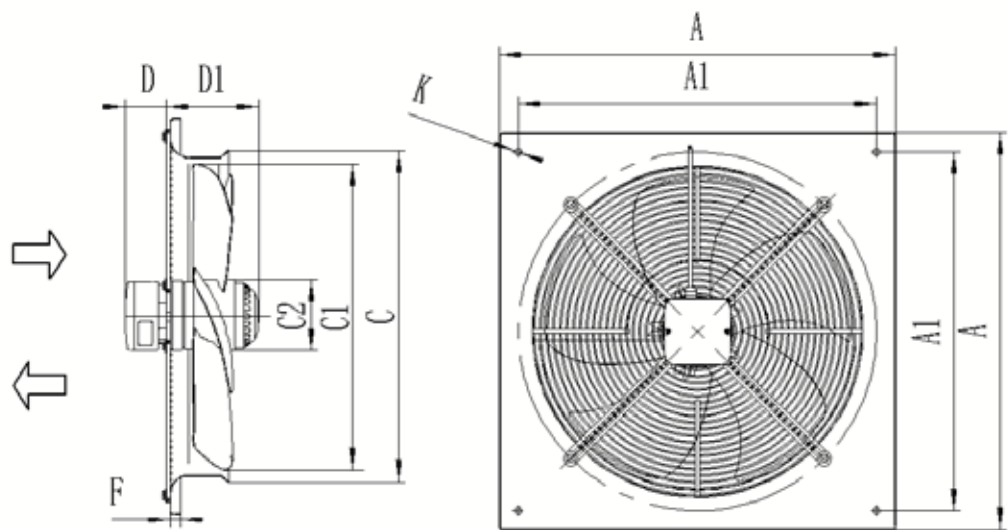
● YFWSP-CT2 Supply Fan of Simple Type



MODEL	A	L1	L2	L	B	D	E	n	(Kg)
YFWSP-250-CT2	320	200	325	645	400	40	13	8	19
YFWSP-300-CT2	370	200	365	690	450	40	13	12	23
YFWSP-350-CT2	420	240	395	750	500	40	13	12	29
YFWSP-400-CT2	470	240	415	785	550	40	13	12	35
YFWSP-450-CT2	520	260	465	855	600	40	13	12	43
YFWSP-500-CT2	570	260	490	880	650	40	13	12	51
YFWSP-550-CT2	620	260	515	915	700	40	13	12	61
YFWSP-600-CT2	765	260	615	1015	865	50	15	20	82
YFWSP-630-CT2	810	350	615	1100	910	50	15	20	100
YFWSP-710-CT2	855	375	625	1090	955	50	15	20	120
YFWSP-800-CT2	975	405	645	1240	1075	50	15	24	146

Note: All the weight and dimensional data are for reference only, subject to factory confirmation.

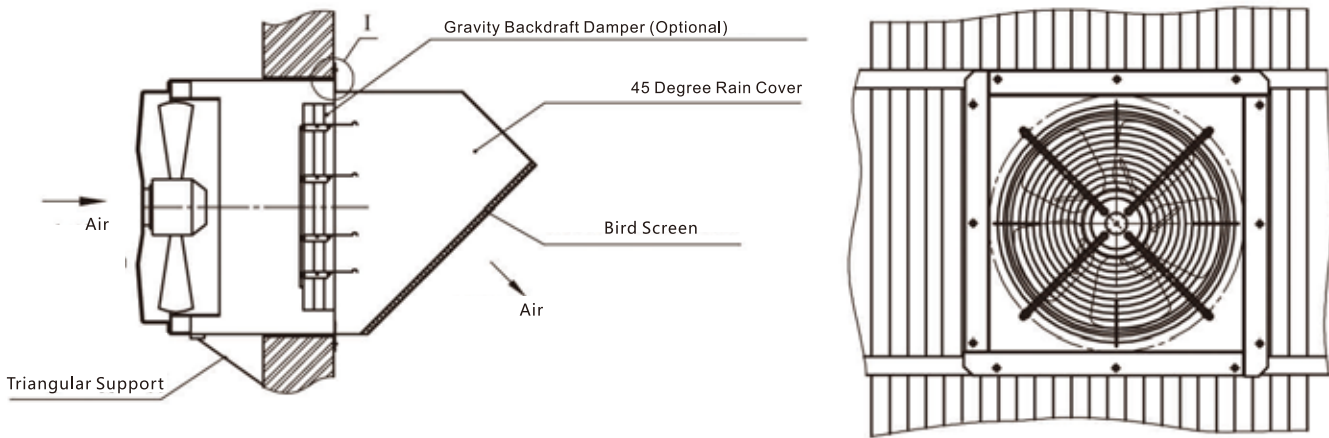
• WEF/WSP Supply / Exhaust Fan with Inlet Cone



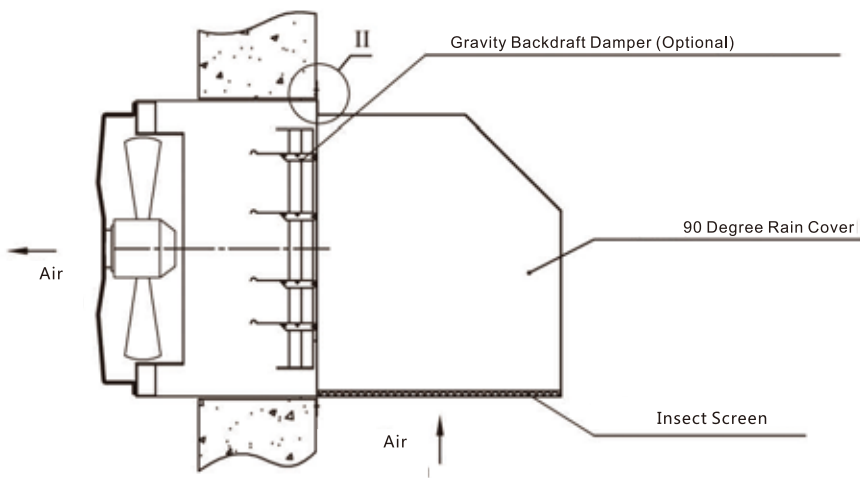
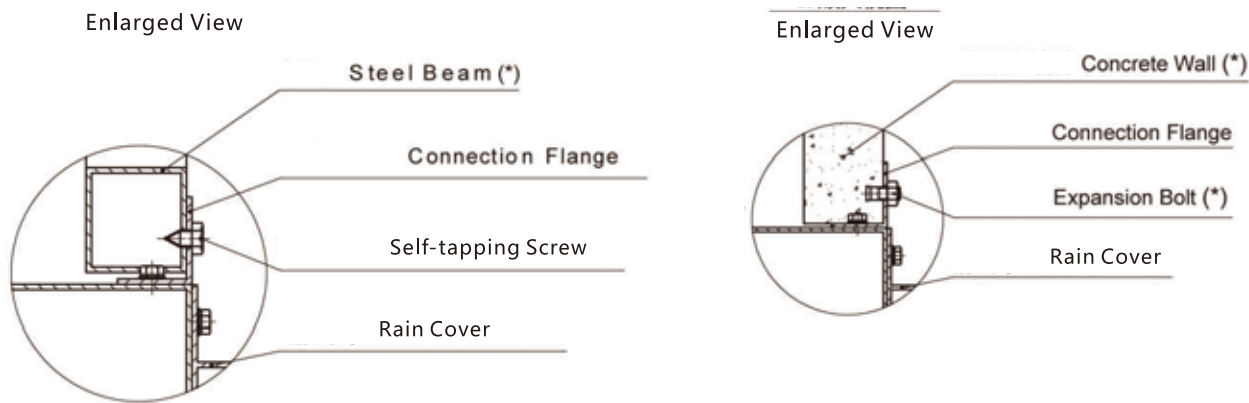
MODEL	A	A1	C	C1	C2	D	D1	F	K	(Kg)
WEF/WSF-200	310	260	230	200	92	60	66	15	4-φ7	3
WEF/WSF-250	370	320	280	250	92	60	76	15	4-φ7	4
WEF/WSF-300	430	380	335	300	92	62	84	15	4-φ10	5
WEF/WSF-350	485	435	380	350	102	65	107	15	4-φ10	6
WEF/WSF-400	540	490	430	400	102	65	120	15	4-φ10	8
WEF/WSF-450	575	520	480	450	102	65	130	15	4-φ10	13
WEF/WSF-500	665	615	530	500	137	68	115	15	4-φ10	15
WEF/WSF-550	725	670	580	550	137	68	130	15	4-φ10	17
WEF/WSF-600	790	735	635	600	137	67	150	20	4-φ10	22
WEF/WSF-630	805	750	665	630	137	67	150	20	4-φ10	30
WEF/WSF-710	850	810	745	710	180	90	150	20	4-φ10	37
WEF/WSF-800	970	910	815	800	180	190	170	20	4-φ10	43

Note: All the weight and dimensional data are for reference only, subject to factory confirmation.

Installation Details



WEX Installation Details



WSP Installation Details

Opening size on the wall

MODEL			Wall Opening Size (mm)
YFWEX /WSP -250 -ST	YFWEX -250 -CT1	YFWEX /WSP -250 -CT2	340 *340
YFWEX /WSP -300 -ST	YFWEX -300 -CT1	YFWEX /WSP -300 -CT2	390 *390
YFWEX /WSP -350 -ST	YFWEX -350 -CT1	YFWEX /WSP -350 -CT2	440 *440
YFWEX /WSP -400 -ST	YFWEX -400 -CT1	YFWEX /WSP -400 -CT2	490 *490
YFWEX /WSP -450 -ST	YFWEX -450 -CT1	YFWEX /WSP -450 -CT2	540 *540
YFWEX /WSP -500 -ST	YFWEX -500 -CT1	YFWEX /WSP -500 -CT2	590 *590
YFWEX /WSP -550 -ST	YFWEX -550 -CT1	YFWEX /WSP -550 -CT2	640 *640
YFWEX /WSP -600 -ST	YFWEX -600 -CT1	YFWEX /WSP -600 -CT2	790 *790
YFWEX /WSP -630 -ST	YFWEX -630 -CT1	YFWEX /WSP -630 -CT2	835 *835
YFWEX /WSP -710 -ST	YFWEX -710 -CT1	YFWEX /WSP -710 -CT2	880 *880
YFWEX /WSP -800 -ST	YFWEX -800 -CT1	YFWEX /WSP -800 -CT2	1000 *1000

MODEL	Wall Opening Size (mm)
WEX /WSP -250 Ex	340 *340
WEX /WSP -300 Ex	390 *390
WEX /WSP -350 Ex	440 *440
WEX /WSP -400 Ex	490 *490
WEX /WSP -450 Ex	540 *540
WEX /WSP -500 Ex	590 *590
WEX /WSP -550 Ex	640 *640
WEX /WSP -600 Ex	790 *790
WEX /WSP -650 Ex	835 *835
WEX /WSP -700 Ex	880 *880
WEX /WSP -750 Ex	945 *945
WEX /WSP -800 Ex	1000 *1000
WEX /WSP -900 Ex	1100 *1100

MODEL	Wall Opening Size (mm)
WEF /WSF -200	φ250
WEF /WSF -250	φ300
WEF /WSF -300	φ355
WEF /WSF -350	φ400
WEF /WSF -400	φ450
WEF /WSF -450	φ500
WEF /WSF -500	φ550
WEF /WSF -550	φ600
WEF /WSF -600	φ655
WEF /WSF -630	φ685
WEF /WSF -710	φ765
WEF /WSF -800	φ835

Sidewall Fan Fastening

- Concrete Wall or Brick Wall
It is recommended that the mounting hole shall be sized according to the wall opening size recommended in the catalog. After the fan is embedded in the wall, foam layer shall be put in between for leveling and waterproof purposes.
- Profiled Steel Sheet Wall
It is recommended at the wall opening to have two bressumer beams and vertical columns where the fan is embedded. Foam layer shall be put in between for leveling and waterproof purposes. Triangular supports can be used if necessary. Also, screw rods can be used for ceiling hanging.
- Installation Guide
The indoor part of the fan is recommended to be slightly higher than the outdoor part so that rainwater backflow due to bad sealing can be prevented.

Product Specification

- Fan Type
The sidewall axial supply/ exhaust fans shall be equipped with steel or aluminum forward swept blades. Stiffeners shall be used on the blades for greater strength and reduced amplitude of blade ends. Motors and blades shall be statically and dynamically balanced to AMCA 204.
- Fan Housing
The housing shall be of square shape and constructed of galvanized steel (optional: cold rolled steel sheets finished with electrostatic epoxy coatings). Support structure for the motor shall be strong enough to prevent resonance vibrations during fan operation. Safety guard shall be mounted at the indoor part of the fan for safety concerns.

- Explosion Proof Structure (Optional)
The aluminum impeller and inlet bell are for explosion proof sidewall fan Model 250~550. The steel impeller and aluminum inlet bell are for explosion proof type Model 600~900. Explosion proof motors in flameproof enclosure Exd IIC T4 and Exd IIB T4 are used for general explosion proof type and compound explosion proof type respectively. As the inlet bell or impeller is constructed of aluminum, a non-ferrous metal, WEX and WSP fans include AMCA 99 Type C Spark Resistant Construction)
- Motor
The external rotor motor shall be IP44 rated and internal rotor motor IP54 rated with Class F insulation. In order for the motor to get cooled, it shall be located inside the airstream. The wiring location is customized and the outgoing line shall be at least half a meter long.
- Nameplate
A permanently fixed aluminum nameplate shall clearly display the fan number, product model and serial number (a unique ID for each fan) so that the parts used can be traceable by customers.
- Qualified Suppliers
INFINAIR or similar products supplied are designed based on Model WEX/WEF/YFWEX or WSP/WSF/YFWSP of INFINAIR.

Typical Installations



INFINAIR Intelligent Ventilation Technology

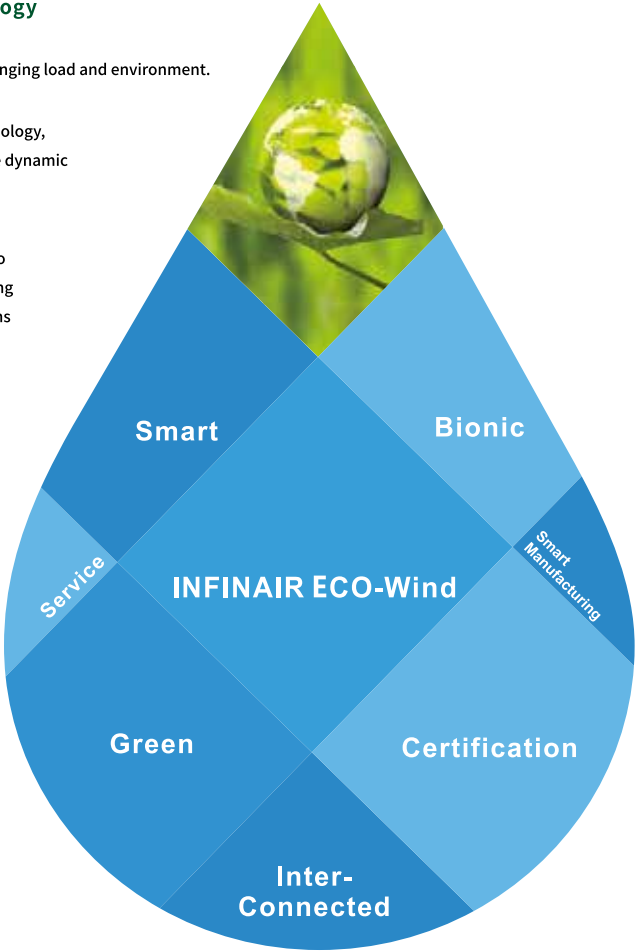
- Smart Needs Identification
Dynamically adjusting the operation target to the changing load and environment.
- Intelligent Adjustment
Utilizing variable frequency or EC smart control technology, performance is finely tuned to actual needs under the dynamic control of intelligent speed regulation software.
- Intelligent Real-time Information
Employing a variety of communication technologies to connect to the Internet or local area networks, enabling intelligent communication with central control systems and mobile devices.
- Intelligent Detection System
Reliable sensors can detect early symptoms and notify the user, ensuring stable operation

Green Smart Simulation Technology

- CFD Simulation & Analysis
Simulated calculations are performed for the performance (airflow, air pressure, power consumption, and noise) prediction of the wheel aerodynamic model, enabling the anticipation of performance without the need to construct physical prototypes, thus facilitating rapid optimization.
- Finite Element Analysis Technology
To analyze and provide accurate prediction of how material is likely to respond when subjected to structural and/or thermal loads.

Certifications and Tests

- Most of the products are certificated by: CCCf, AMCA, TUV, CE, ATEX, UL, RoHS and ErP2015
- Performance and Reliability Tests:
Air flow, air pressure, power, sound level, temperature durability, salt spray and water proof test, etc



Interconnected

- Matrix Connection
- Central Connection
- Terminal Connection

INFINAIR' s Bionic Technology

- INFINAIR' s Bionic Energy Conservation
Why can nautilus float and swim effortlessly?
How do birds soar thousands of miles with extremely low energy consumption?
For owls' silent flight, why are even sensitive mice unaware of it?
Over millions of years of evolution, how have creatures in nature conserved energy for migration or remained silent while hunting prey?
INFINAIR has gained inspiration in the research and development of its products by using the bionic technologies.

INFINAIR' s Intelligent Manufacturing

- Intelligent production process
- Power test, dynamic balancing test and communication test performed on the production line
- Robotic welding technology
- Lean production
- 6Σ system

Eagle Service

- Joint R&D
By collaborating with clients in co-development and implementing quality planning from the outset, we swiftly deliver genuinely effective solutions.
- Tailored Solutions
Our customized services guide you through a progressive clarification process to pinpoint your exact needs precisely.
- Agile Services
With an extensive network of INFINAIR after-sale service engineers, we promptly offer professional services wherever you are.

Eagle Service

