

Thinking of man and nature together

KFM **KOREA FLUID
MACHINERY CO., LTD.**



SINCE 1976

Thinking of man and nature together

(株)韓国流体機械

KOREA FLUID MACHINERY CO., LTD.

Change and challenges, better go by step by step into the future

KOREA FLUID MACHINERY CO., LTD.

"Develop an innovative product first!"—

With this management philosophy KFM has aimed at changes and challenges which have enabled us to market new products awarded IR52 JangYoungShil Award and obtained various domestic patents and international patents as the result of our efforts to develop new products.



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Thinking of man and nature together.
KOREA FLUID MACHINERY CO., LTD.

Human, Nature, and Culture —

“Thinking of man and nature together”

Founded in 1976 in Yang-San City, Gyeong-Sang Nam-do, located in southeastern part of South Korea near Busan, Korea Fluid Machinery Co., Ltd (KFMC) was the first company to develop of the hit product, the Rotary type Blower (known as Roots Blower) in South Korea and has remained the best seller until now.

Focusing on developing and producing the Roots Blower, KFMC has been credited as the first company in the world to mass-produce and sell 3 Lobes Helical Rotary Blower, considered as the 3rd generation Roots Blower.

With the management philosophy, “Creative and Faster development than that of existing players, KFMC has created the Orbit Compressor and the Vacuum Pumps, which have been internationally patented and given the company the “Jang Young-Sil Award”, known to be the best honor to entrepreneurs and engineers in Korea, in 1999.

We, KFMC, put customers first and orient management based on ISO 9001/KSQ 9001 quality system, with responding even to minor requests aiming customer at satisfaction and success.

Moreover, KFMC has developed the Turbo Blower in 2005 with a 60,000 RPM permanent magnetic synchronous motor inverter operation, an air Foil Bearing and a high-efficiency impeller and markets surging free automated system with the same philosophy of responding even minor requests aiming at customer satisfaction and success.

As a result of transparent management to meet the global business standard, KFMC has achieved and maintains debt-free management up to this day.

We, KFMC, not only value man and his creativity, but also develop their potential together. Acknowledging the benefit from nature to man, KFMC has been practicing and adapting. the corporate culture, “Thinking of man and Nature” and tradition, “Hard working, Living frugally and honestly”.

KFMC will keep this role and responsibility, devote to customers, and contribute to society with a healthy corporate culture and tradition that have been ceaselessly cultivated and developed.

History Since 1976

1976~

- 1976 Jul Established KFM in Busan
- 1976 Oct Produced 2-Lobed Roots Blower
- 1978 Mar Produced 3-Lobed Roots Blower
- 1979 Jul Obtained Patent for 3-Lobed Roots Blower(Pat. No. 6654)

1981~1990

- 1982 Sep Expanded and moved Head Office and Yangsan Plant to Yangsan, Korea
- 1983 Nov Developed 3-Lobed Helical Roots Blower, second in the world
- 1986 Jan Incorporated to KFM Co., Ltd.(Registration No. 184511-0001583)
- 1986 Jul Started export business to South East Asia
- 1990 Mar Manufactured the largest blower for cement plant(ST500)

1991~2000

- 1993 Sep Launched mass production of 3-Lobed Helical Roots Blower, first in the world
- 1998 Apr Patent application of Orbit Compressor & Vacuum Pump
- 1999 Jul Obtained Quality Assurance System Certification ISO9001/KSA9001 from DNV/RVA
- 1999 Aug Awarded for IR52 Jang Young Shil award for Orbit Compressor and Vacuum Pump
- 2000 Mar Started to develop L type as a main product for domestic and overseas business
- 2000 Oct Started export to Japan
- 2000 Dec Realization of clean management without loan



2001~2010

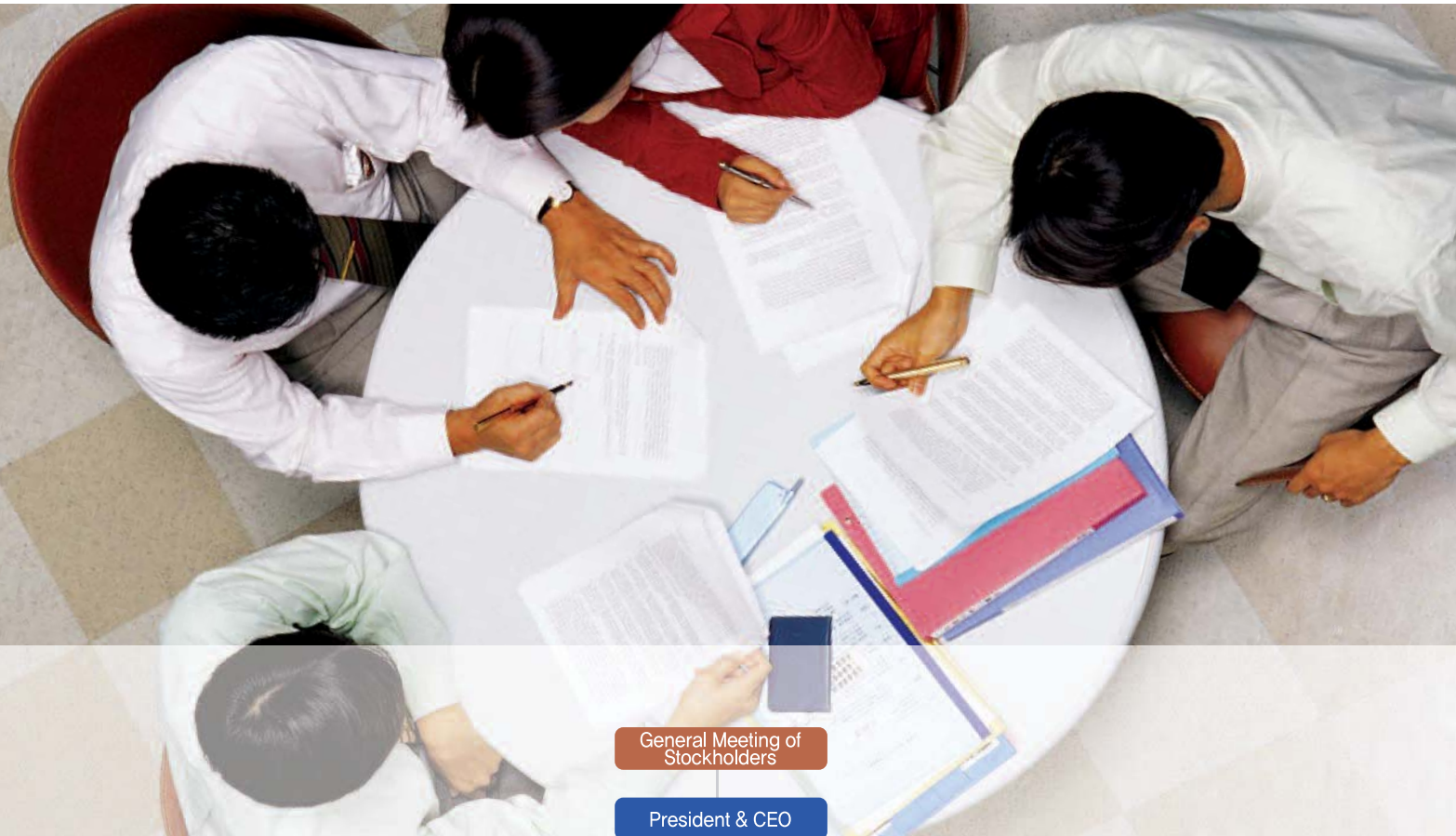
- 2002 May Obtained international patent covering 5 countries(U.S.A. , Britain, Germany, Japan, China) for Orbit Compressor & Vacuum Pumps
- 2002 Nov Obtained CE
- 2004 Mar Introduced Enterprise Resource Planning System
- 2005 Oct Developed Turbo Blower KFMTB Series
- 2006 Apr Started to sell KFMTB075
- 2006 Oct Developed Turbo Blower KFMTB200
- 2006 Oct Patent registration of super high speed motor for turbo blower (Patent 10-0636002)
- 2006 Nov Patent registration of air foil bearing for turbo blower (Patent 10-0648637)
- 2007 Jan ST600 blower development and supply (Iran A1 project/Hyundai Construction)
- 2007 Feb Patent registration of safety valve for turbo blower (Patent 10-0684119)
- 2007 June Development due to limitation of 3-lobed rotary air blower
- 2008 Mar Patent registration of turbo centrifugal compressor (Patent 10-0813145)
- 2009 Apr Patent registration of turbo blower multifunction valve (Patent 10-0892268)
- 2010 Dec Patent registration of centrifugal compressor (pressure controlled) (Patent 10-1004700)
- 2010 Dec Patent registration of centrifugal compressor (cooling structure) (Patent 10-1004701)

2011~

- 2011 June Development of centrifugal compressor auto control for pressure and capacity variation
- 2011 Dec ST700(1300HP) blower development and supply
- 2013 May Started export to China, Vietnam(Turbo Blower)
- 2013 Oct Awarded prime minister award for developing and exporting capital goods
- 2014 Aug Patent registration of centrifugal compressor (pressure controlled & cooling structure) (Patent No. : US 8,814,499 B2)



Organization Chart



New vision & High Quality KFM POWER

New vision starts with new technology and R&D.
KFM promises the best quality and services.

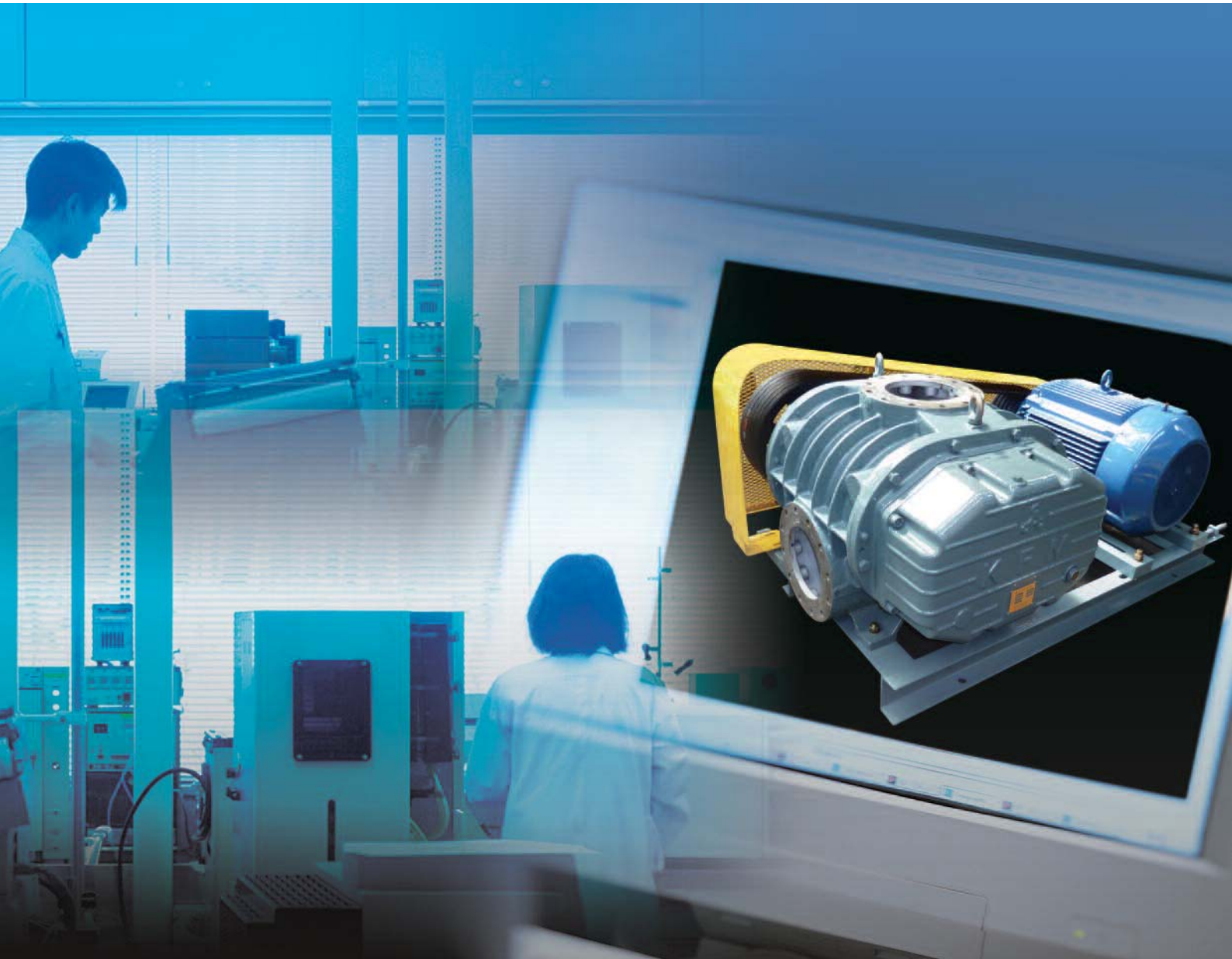
Right Management

Right management, it is our management philosophy towards the future Since beginning.

- ▶ We make and provide best products with right price and right sales activities.
- ▶ We are always fair in everything and practice customer respect as our first priority of the management.
- ▶ We devote national development and serve the community.



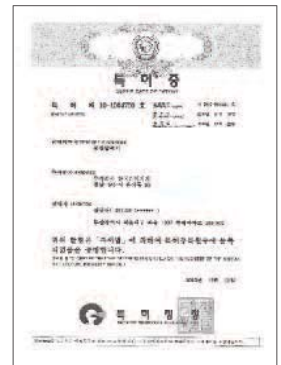
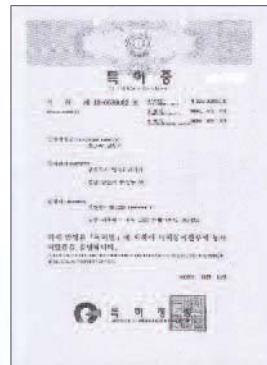
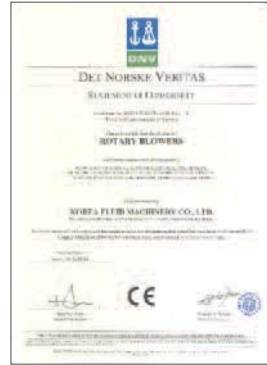
Research & Development



Research & Development **KFM POWER**

Upon the basis of quality management system which ISO9001 and KSQ9001 require, beyond customer satisfaction toward customer impression, KFM develops and keeps customer focused management reflecting any kinds of customer's requirements.

Certificates



ISO-9001

KOREA FLUID MACHINERY CO., LTD

KFM makes head towards tomorrow without rest,
KFM is recognized in the world with outstanding manpower and advanced technology,
Challenges and passions to open tomorrow spread to the whole industry.

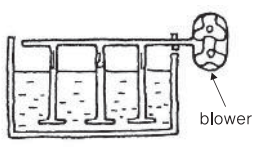
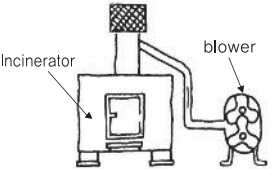
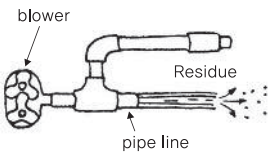
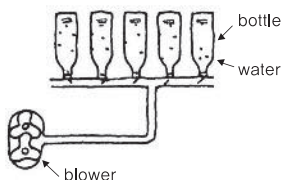
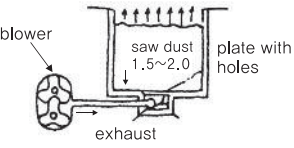
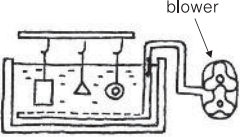
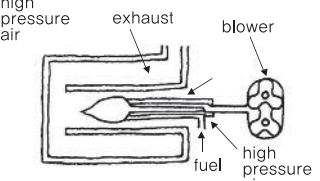
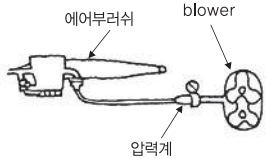
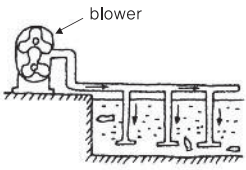
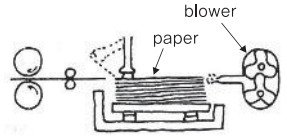
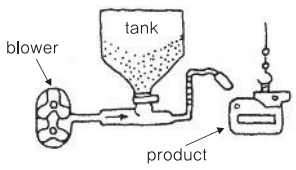
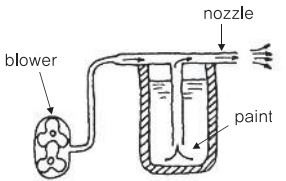
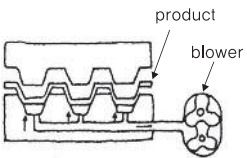
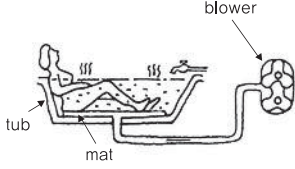
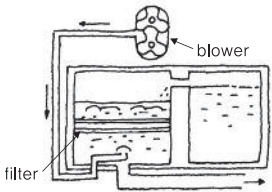
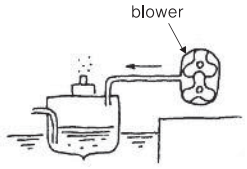
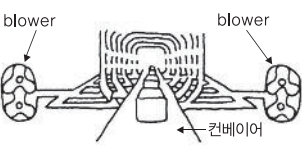
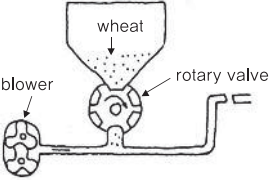
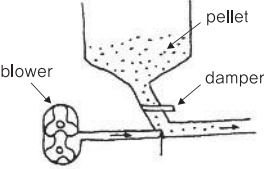
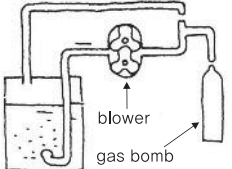


Incinerator / Fish farm / Paper feeding of
printing machine / Spray for painting /
Ballast for shipping / Nuclear power plant /
Heat Treatment facility / Industrial facility /
Industrial fields / Gas facility / Press machine

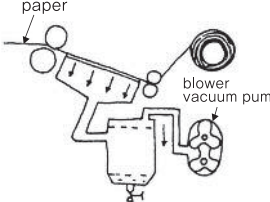
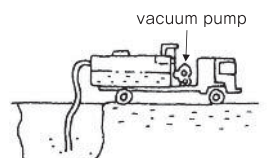
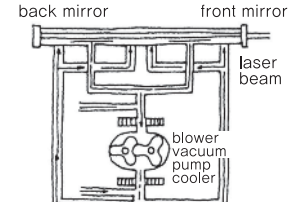
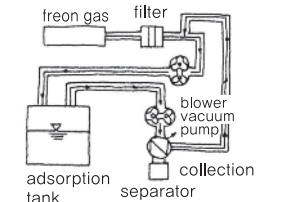
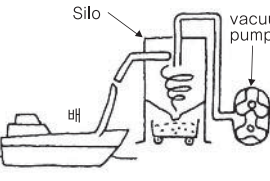
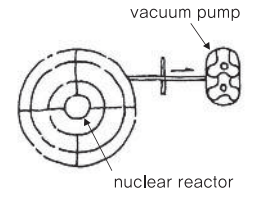
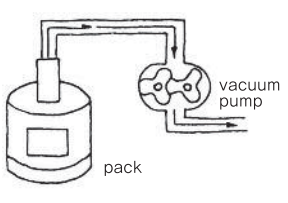
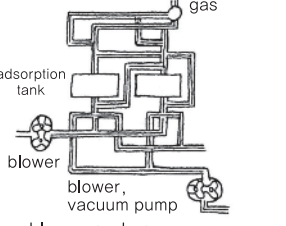
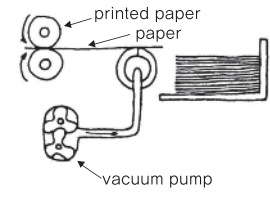
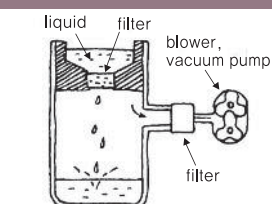
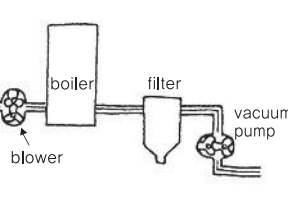
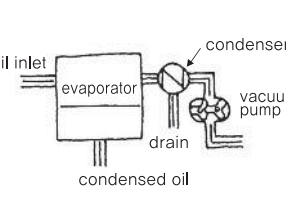
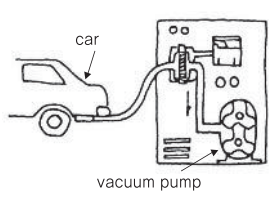
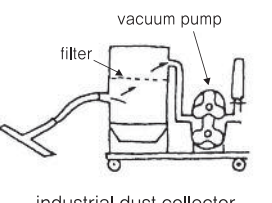
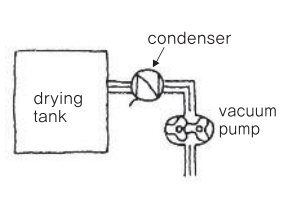
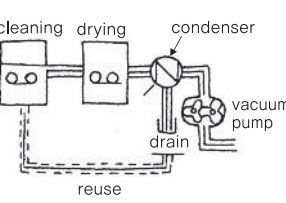
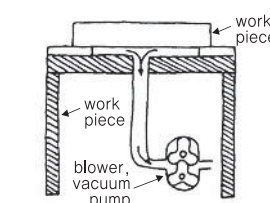
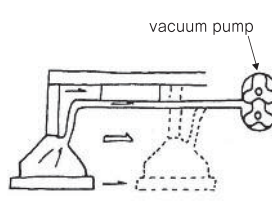
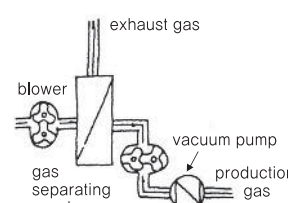
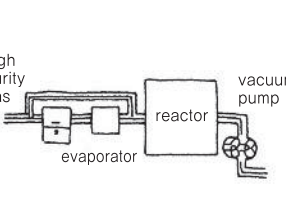
Applications



Applications of Displacement Blower

<p>Operation for Sewage Disposal</p>  <p>blower</p> <p>float deposit and to purify waste water</p>	<p>Incinerator</p>  <p>Incinerator blower</p> <p>Increase combustion and speed up removing exhaust gas</p>	<p>Cleaning for Pipe Line</p>  <p>blower Residue pipe line</p> <p>clean pipe line or remove residue or scale</p>	<p>Eliminate Water Drop in Bottle</p>  <p>bottle water blower</p> <p>remove water drops after cleaning bottle</p>
<p>Making a Compost Cattle Dung</p>  <p>blower saw dust 1.5~2.0 plate with holes exhaust</p> <p>speed up fermentation</p>	<p>Plating Tank</p>  <p>blower</p> <p>plate in high quality by air circulation in tub</p>	<p>Gas Burner</p>  <p>high pressure air exhaust blower fuel high pressure air</p> <p>increase combustion effect by scattering fuel by high pressure air</p>	<p>Air Brush</p>  <p>에어부러쉬 blower 압력계</p> <p>supply high pressure air by air brush</p>
<p>Aeration for Fish Farm</p>  <p>blower</p> <p>supply oxygen</p>	<p>Paper Feeding of Printing M/C</p>  <p>blower paper</p> <p>separate paper easily by air</p>	<p>Sand Blast</p>  <p>blower tank product</p> <p>supply air to sand blaster</p>	<p>Spray for Painting</p>  <p>blower nozzle paint</p> <p>supply high pressure air to paint sprayer</p>
<p>Press Work</p>  <p>product blower</p> <p>separate product easily after pressing</p>	<p>Bath Tub for Health</p>  <p>blower tub mat</p> <p>bath tub in hotel, hospital</p>	<p>Cleaning Filter</p>  <p>blower filter</p> <p>clean filter</p>	<p>Ballast for Shiping</p>  <p>blower</p> <p>ballast ship during loading or unloading chemicals or liquid</p>
<p>Drying Line</p>  <p>blower blower 컨베이어</p> <p>dry product</p>	<p>Transportation of Grain</p>  <p>wheat blower rotary valve</p> <p>convey grain</p>	<p>Transportation of Powder</p>  <p>blower pellet damper</p> <p>convey pallet of raw material</p>	<p>Recycling of Gas</p>  <p>blower gas bomb</p> <p>circulate gas</p>

Applications of Vacuum Blower

<p>Dehydrator</p>  <p>paper blower vacuum pump</p> <p>dehydrator in paper mill, textile making process</p>	<p>Vaccum Car</p>  <p>vacuum pump</p> <p>garbage disposal, particle transportation</p>	<p>Oscillator of Laser</p>  <p>back mirror front mirror laser beam blower vacuum pump cooler</p> <p>circulation of laser gas</p>	<p>Recovery for Ferongas</p>  <p>freon gas filter blower vacuum pump adsorption tank separator</p> <p>adsorption of freon gas</p>
<p>Transfer the Granule Type Objects</p>  <p>Silo vacuum pump</p> <p>transporation of rice, bean, wheat</p>	<p>Nuclear Power Plants</p>  <p>vacuum pump nuclear reactor</p> <p>sampling or degassing in nuclear reactor</p>	<p>Vacuum Packing for Food</p>  <p>vacuum pump pack</p> <p>vegetable, meat vacuum packing</p>	<p>PSA</p>  <p>gas adsorption tank blower blower, vacuum pump</p> <p>blower and vacuum pump</p>
<p>Paper Feeding of Printing</p>  <p>printed paper paper vacuum pump</p> <p>reducing paper speed</p>	<p>Filteration</p>  <p>liquid filter blower, vacuum pump filter</p> <p>reducing passing time through filter</p>	<p>Recovery of Fuel Gas</p>  <p>boiler filter blower vacuum pump</p> <p>combustion gas in high temperature</p>	<p>Concentration</p>  <p>oil inlet evaporator condenser vacuum pump drain</p> <p>condensed oil</p> <p>condensing by evaporating water</p>
<p>Fuelgas Detector for Auto</p>  <p>car vacuum pump</p> <p>car exhaust gas test</p>	<p>Air Cleaner</p>  <p>vacuum pump filter</p> <p>industrial dust collector, vacuum cleaner</p>	<p>Vacuum Dryer</p>  <p>drying tank condenser vacuum pump</p> <p>drying</p>	<p>Flux Vaccum Dryer</p>  <p>cleaning drying condenser vacuum pump drain</p> <p>reuse drying and reuse</p>
<p>Fixed of Work Pieces</p>  <p>work piece work piece blower, vacuum pump</p> <p>fixing work piece such as wood, plastic</p>	<p>Transfer Light Object by Vaccum Holder</p>  <p>vacuum pump</p> <p>transferring with adsorption</p>	<p>Gas Separation</p>  <p>exhaust gas blower vacuum pump production gas gas separating membrane cooler</p> <p>oxygen separation</p>	<p>Heat Treatment</p>  <p>high purity gas reactor vacuum pump evaporator</p> <p>airtight in reactor protecting mixing of oil or air</p>

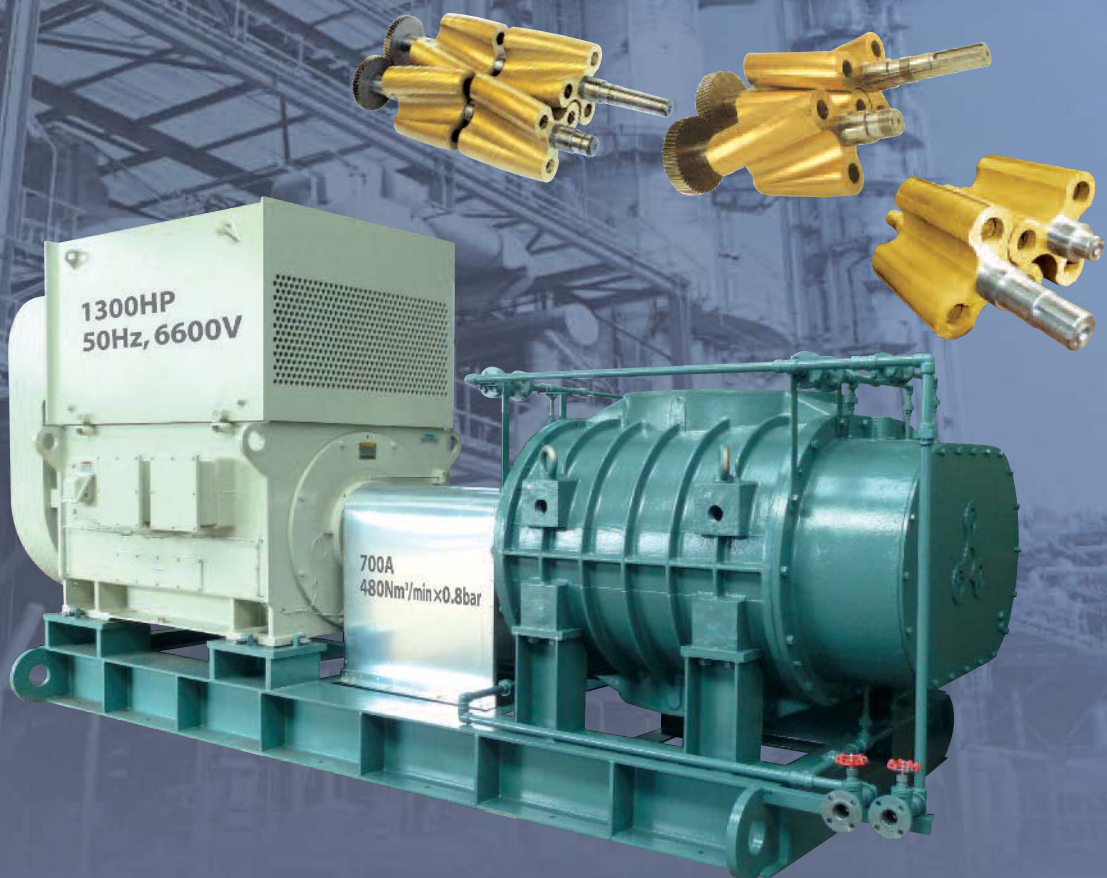
Main Products





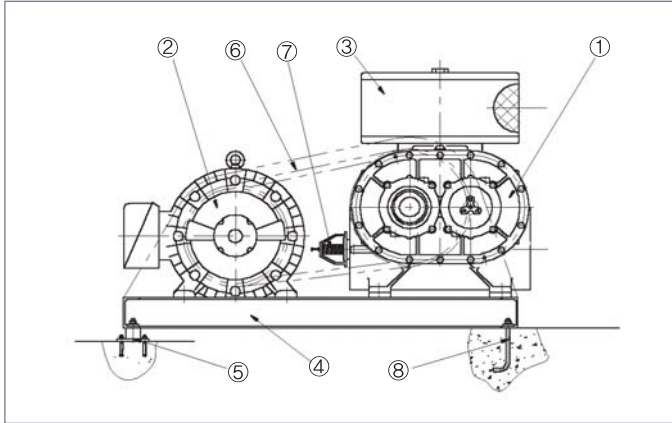
KFM **ROOTS BLOWER**

- 70% increase in efficiency with Tip-seal design
- Oil-free
- Dry process
- Energy reduction
- Lower Vibration than ISO standards and specification with perfect balance
- Environment-friendly with noise-reducing soundproof Enclosure
- Anchor bolts removed due to use of Anti-vibration device
- Simple structure operated by piping and wire connection



Operating Principle & Structure

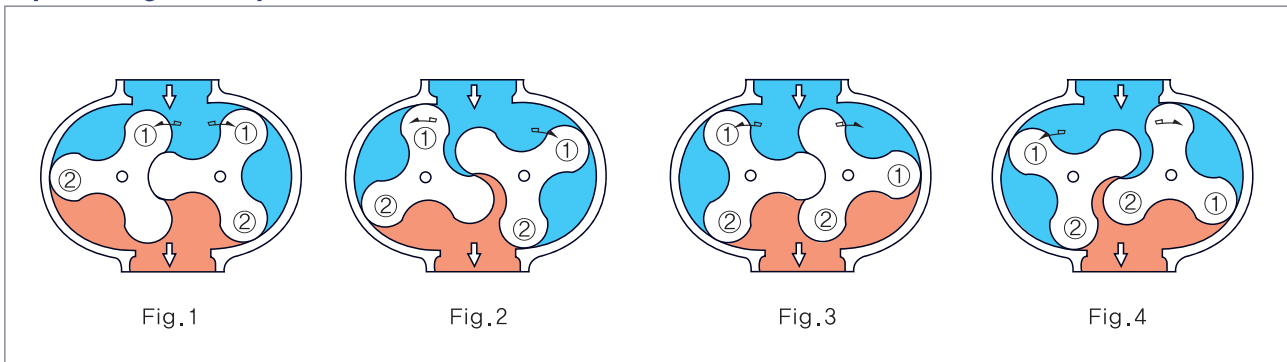
Structure of the blowers



NO	DESCRIPTION
1	BLOWER
2	MOTOR
3	SUCTION SILENCER
4	COMMON BED
5	ANTI-VIBRATION MOUNT
6	BELT ASS'Y
7	SAFETY VALVE
8	ANCHOR BOLT

This rotary blower, or 'Roots blower' has two builtin rotors, a motor, noise silencer for suction and other parts.

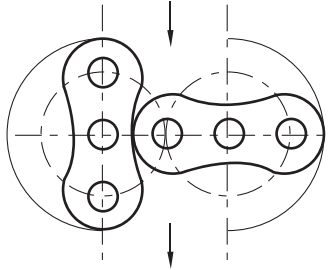
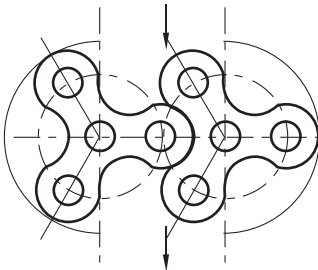
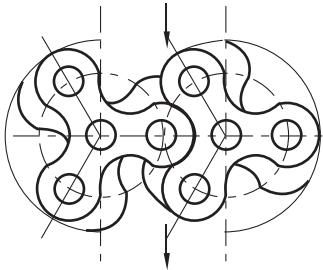
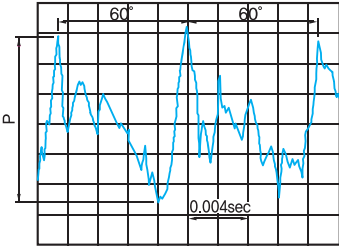
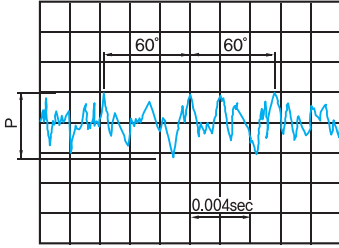
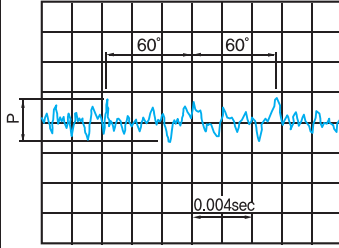
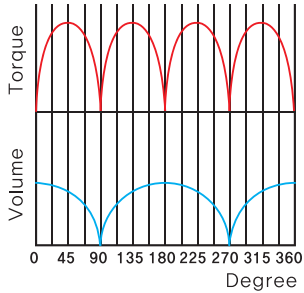
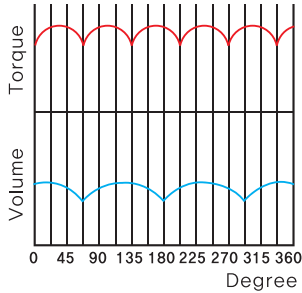
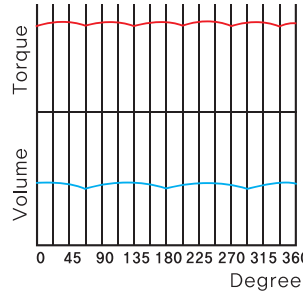
Operating Principle



Two rotors move in opposite directions within a casing keeping a suitable clearance between casing and rotors. When the rotor moves in the direction of the arrow, air between ① and ② moves along the inner side of the casing Fig.2 and then flows towards the exhaust Fig. 3, 4. In a case of 2-lobes rotor, this operation occurs 4 times per rotation; a 3-lobes, 6 times; and in a case of helical rotor, it occurs consecutively. In all cases, the air moves towards the exhaust in proportion.

Comparison of roots blower impeller (rotor)

Comparison Table of Two Lobes, Three Lobes & Helical Blowers

ITEM	TWO LOBES BLOWER	THREE LOBES SPUR BLOWER	THREE LOBES HELICAL BLOWER
Generation	First Generation	Second Generation	Third Generation
Outer Shape of Rotor			
Rotor Curve	Difficult complex curve for machining	Concentric simple curve for easy machining (Patent No. 6654)	Concentric simple curve for easy machining (Patent No.6654)
Rotor Material	Engineering Plastic, Cast Iron	Engineering Plastic, Cast Iron	Cast Iron, Ductile Cast Iron
Pressure Fluctuation Curve			
Discharge Pulsation Curve			
Remarks	The first generation, 2-lobes blower was composed of 2 peanut-shaped rotors. Sucking and discharging times per rotation the 2-lobes blower had many problems, including great variations in pressure, vibration and noise. It was difficult to process and hard to make its axis larger, thus weakening it.	The 3-lobes blower had much less variation in pressure, vibration and noise, since it sucked and discharged air 6 times per rotation. But it did not solve the problem of axial force and thrust.	The 3-lobes helical blower greatly reduced pulsation, vibration and noise, and axial thrust by sucking and exhaling air without and pressure difference.

Features and Advantages of KFM Rotary blower

- The main rotors are 3 lobes with a simple concentric circle patent curve, which is easy for processing.
 - Energy conservation through volumetric efficiency of over 90% and high mechanical performances is guaranteed.
 - Variations of noise, vibration, pulsation, and pressure are remarkably reduced compared to those of the 2 lobes of the 1st generation. Surging is reduced as well.
 - The enlarged shaft diameter expands durability of product.
 - It is economically priced due to mass-production and easy manufacture.
 - It is possible to use 3rd generation helical.
- A long life is guaranteed due to excellent strength.
- Quality system guaranteed are by ISO 9001 / KS A 9001 and the “Q” mark certifications.
- Reliability of the product is proven by the high number of sales within a long time period.
- It is possible to save the cost of repair and maintenance because the setup of the blower is very simple allowing for easy assembly and dismantlement.
- It is possible to install it in a narrow space, and also save the cost and time for the installation.
- Countrywide service network of the company allows for technical consultation anywhere, any time.
- You can be immediately supplied with blower at an economic price upon ordering with the automatic production line and FMS.
- The company has produced and supplied various models of blower to respond to customers' special requirements.
- The company has been able to produce and supply steadily without stopping production or going through any bankruptcy.

Blower Application Table

KFM APPLICATION MODEL	BLOWERS				VACUUM PUMPS			
	Air Cooling	Water Cooling	Back-flow Cooling	Multi-Stage	Air Cooling	Water Cooling	Back-flow	Multi-Stage
RANGE	0.1–0.6 kg/cm ²	0.6–0.8 kg/cm ²	0.8–1.2 kg/cm ²	1.2–2.0 kg/cm ²	0–300 mmHg	330–500 mmHg	500–650 mmHg	650–700 mmHg
EK 050–100	★				★			
SL 050–SL300	★				★			
HL 080–SL300	★				★			
HT 080–300	★	★			★	★		
ST 080–700	★	★	★		★	★	★	
DST 080–500	★	★	★	★	★	★	★	★

Regarding to Selection of Blowers

- Our product can be used in various use, selected by customer's purpose and ordered by data sheet & order specification.
- To a degree of pressure difference & vacuum level air cooling, water cooling, backflow cooling and multistage cooling type can be applied.
- For a discharge port noise can be extinguished inside pipe, discharge silencer is not necessary spec.
- In a case of much less noise & vibration, acoustic hood & anti-vibration rubber can be chosen in a option item.
- In a case of direct coupled type, power loss is prevented by a degree of 3~5% in a point of view transmission efficiency.
- Helical type can be applied from 80A to 300A.

Product Code

	ST 200V BF4M				
	(1)(2)	(3)	(4)	(5)	
(1) Materials or shape of rotors	E	: 3-Lobes Spur / Engineering plastic			
	S	: 3-Lobes Spur / Cast iron steel			
	H	: 3-Lobes Hellical / Ductile cast iron			
(2) Input & Output flow direction of blower	K	: KFM standard type			
	P	: Horizontal			
	T	: Vertical & Horizontal			
	L	: Vertical & Horizontal			
	U	: Horizontal, Vertical			
(3) Suction port / Discharge port diameter (A:mm)	200A : 200(indicator)				
(4) Use	No indicator : Positive Displacement type				
	V : Vacuum type				
(5) Special specification	B : Without motor, Bare shaft blower(Body Only)				
	W : Water cooling type				
	BF : Backflow cooling type				
	K : Kanizen coating				
	C : Coupling connection type				
	G : Gland packing type				
	SS : Stainless steel				
	1M : One mechanical seal type				
	4M : 4 Mechanical seal type				

• Example : SP200VBF4M : Spur rotor horizontal vacuum type including backflow cooling, 4Mechancial sealing

KFM Economic rotary blower & vacuum pumps

• Economic type blowers EK050~EK100

KFM Millenntum rotary blower & vacuum pumps

• Standard blowers SL050~SL300
 • Standard Vacuum pumps SL050V~SL300V
 • Helical rotary blowers HL080~HL300
 • Helical rotary vacuum pumps HL080V~HL300V

KFM Classic rotary blower & vacuum pumps

• Classic spur rotary blowers ST080~ST700, SP050~SP350
 • Classic spur rotary vacuum pumps ST080V~ST700V, SP050V~SP350V
 • 3rd generation helical rotary blowers HT080~HT250, HP080~HP250
 • 3rd generation helical rotary vacuum pumps HT080V~HT250V, HP080V~HP250V

KFM Special rotary blower & vacuum pumps

• Medium pressure water cooling rotary blowers HT080W~HT250W, ST080W~ST700W
 • Medium pressure water cooling rotary vacuum pumps HT080VW~HT250VW, ST080VW~ST700VW
 • High pressure backflow cooling rotary blowers HT080BF~HT250BF, ST080BF~ST700BF
 • High pressure backflow cooling rotary vacuum pumps HT080VBF~HT250VBF, ST080VBF~ST700VBF

How to Use The Performance Table

Air volume listed in Rotary blower performance table represents an air volume (TEMP. 20°C, absolute pressure 10332mmAq, relative humidity 75%)

Air volume is generally shown in terms of the following three model valves car

- (1) Air volume at suction state Shown in term of suction pressure, temperature, and humidity.
- (2) Air volume at standard state When temperature 20°C, absolute pressure 760 mmHg and relative humidity 65%
- (3) Air volume at normal state When the temperature 0°C absolute pressure 760mmHg and when air is dry

The air volume conversion formula is as follows

$$Q_2 = Q_1 \times \frac{P_1}{P_2} \times \frac{T_2}{T_1}$$

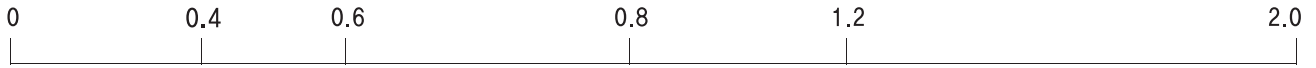
Where Q1 : air volume(m³/min) at absolute pressure of P1(mmHg) and absolute temperature of T1
 Q2 : air volume(m³/min) at absolute pressure of P2(mmHg) and absolute temperature of T2

Air volume(m³/min) has allowable range ±5% at propose pressure (KS B 6351)

Blower Model Selection

Positive displacement type

unit : (kg/cm²)



Air cooling	Water cooling	Back flow cooling	2 stage blower Inter cooler
SL/HL 0.1~0.6	ST/HT[W], SP/HP[W] (0.1~0.8) ST/HT[WBF] (0.8~1.2)		DTS/DHT (1.0~1.8) DSP/DHP

reason of water cooling adopted: cooling Bearing parts(90°C guaranty)
-Heat of compression increases 10~12°C per 1kg/cm² increase (ATM+72°C)

0.6~0.8kg/cm²(air cooling)
ST/HT[G] GLAND TYPE MODEL

Vacuum type

unit : (mmAq)



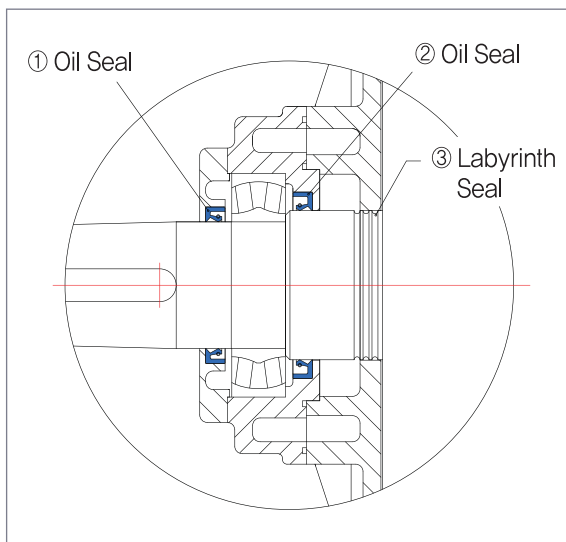
Air cooling	Water cooling	Back flow cooling	2 stage blower Inter cooler
SL/HL 0~-5000	ST/HT[W], SP/HP[W] (-5000~-7000) ST/HT[VBF] (-5000~-7000)		DTS/DHT (-6000~-9000) DSP/DHP

-5000~-7000mmAq(air cooling)
ST/HT[G] Gland Type Model

Sealing Option

Shaft Sealing	Bearing Oil Sealing	Side Sealing
Standard	Standard	Standard
T, U, P, K Type (Oil Seal) L TYPE (V Seal)	T, L, U, P Type (Oil Seal)	T, L, U, P Type (Labyrinth Seal)
Standard	Standard	Gland Type
T, U, P, L Type (Mechanical Seal)	T, L, U, P Type (Lip Seal)	T, U, P Type (Gland Packing Seal)
		Lip Seal Type
		T, U, P Type (Lip Seal)
		4 Mech Seal Type
		T, U, P Type (Mechanical Seal)
		4 Mech Seal Type
		T, U Type (Dry gas Seal)

Seal structure of standard components (Reference T-type)



OPTIONAL

- Electroless Nickel Plating(KANIZEN COATING) : Reinforcement of Corrosion resistance and Wear resistance
- Impeller material(GCD400) : Reinforcement of response ability to foreign substance
- GAS Trasfer : MECHANICAL SEAL, LIP SEAL, INPRO SEAL etc.
- Stainless components: Reinforcement of Corrosion resistance
- Acoustic Hood: Noise reduction
- Filter adopted in inlet / outlet pipe line to prevent dusts inflow.

KFM **TURBO BLOWER**

- Preventing surging by regulator(Patent 10-1004700)
- Automatic operation even in sudden air flow / pressure change
- Best quality, lower cost by removing unnecessary devices and sensors
- Economic operation by automatic optimal air flow operation
- 60,000 rpm high speed PMSM motor

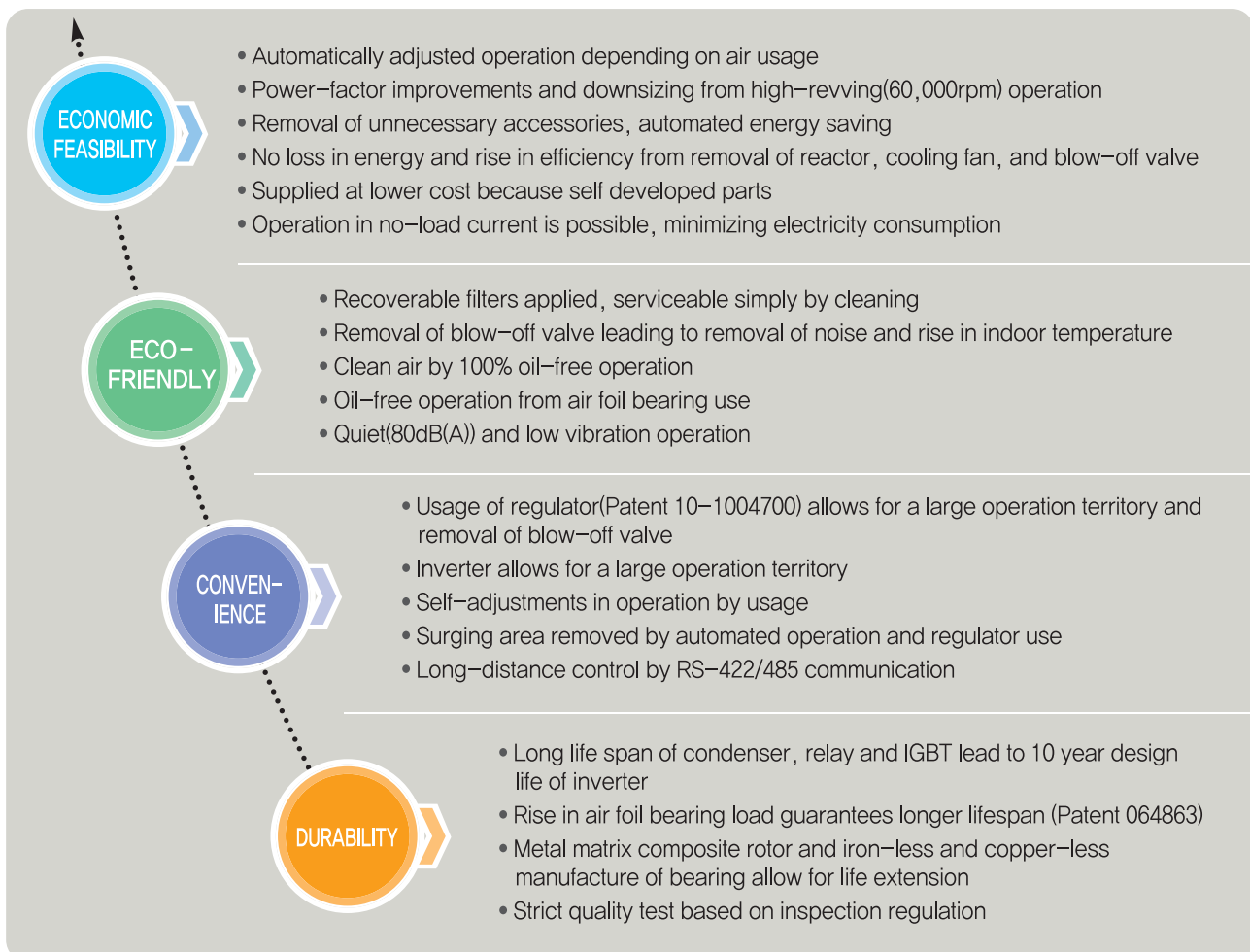


KFM Turbo Blower

KFM TURBO BLOWER has been developed based on experience and technology on Roots Blower to perform the function needed for industrial settings. Turbo blower's manufacturing cost has been lowered for a high performance to cost ratio.

Features

- Usage is calculated exactly as used rather than depending on the operator's ability. It leads to reduction in energy and personnel.
- Regulator to prevent surging drastically allows for operation in larger territory as there is no limit in pressure and air volume.



Applications

- Water treatment aeration, Fish farm aeration, Pipe cleaning, Drying, spray for painting, Powdered material, and conveying.



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