

# RAETTS®

# BIG SAVING

GLOBAL INNOVATOR OF ENERGY-SAVING BLOWER SYSTEM SOLUTIONS

## TURBO BLOWER

AIR BEARING TURBO BLOWER & MAGLEV TURBO BLOWER

# *Energy Saving Up to 45%*



Eco-Friendly & High Efficiency Design

- ➔ German Technology
- ➔ Ultra-long Service Life
- ➔ Super High-efficiency
- ➔ Ultra Low Noise

**ENCOTEC**  
Environmental | Energy | Innovation

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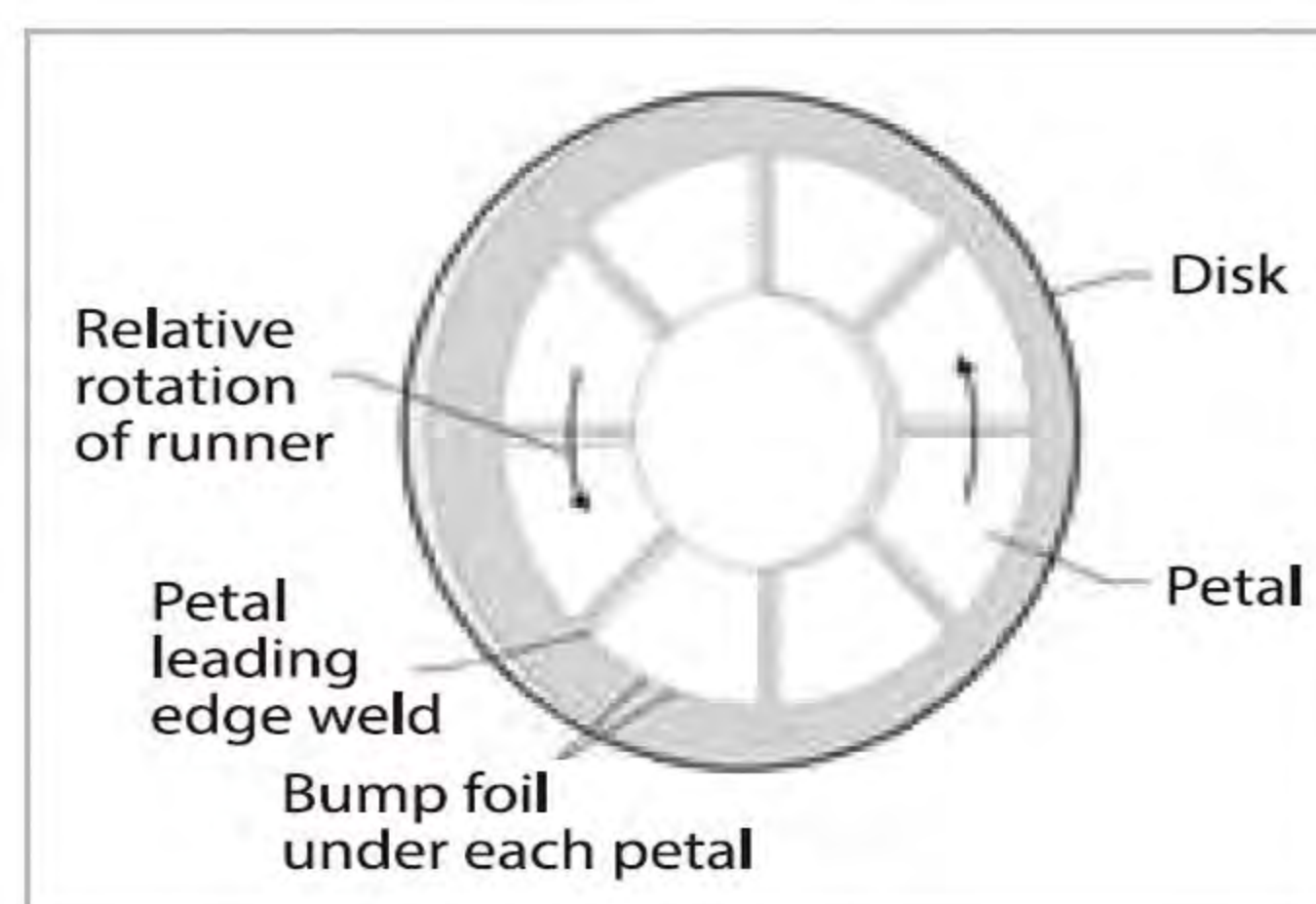
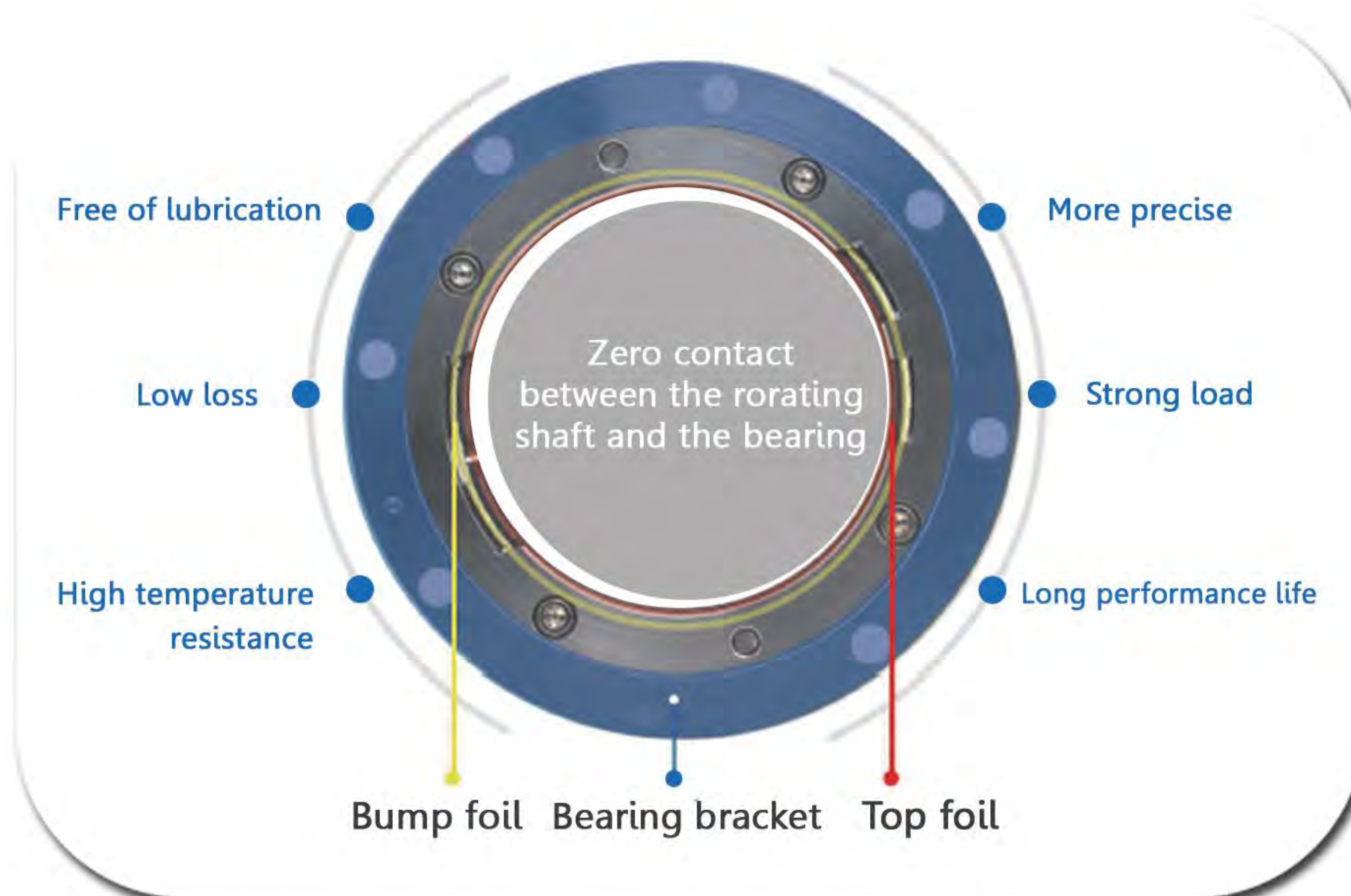
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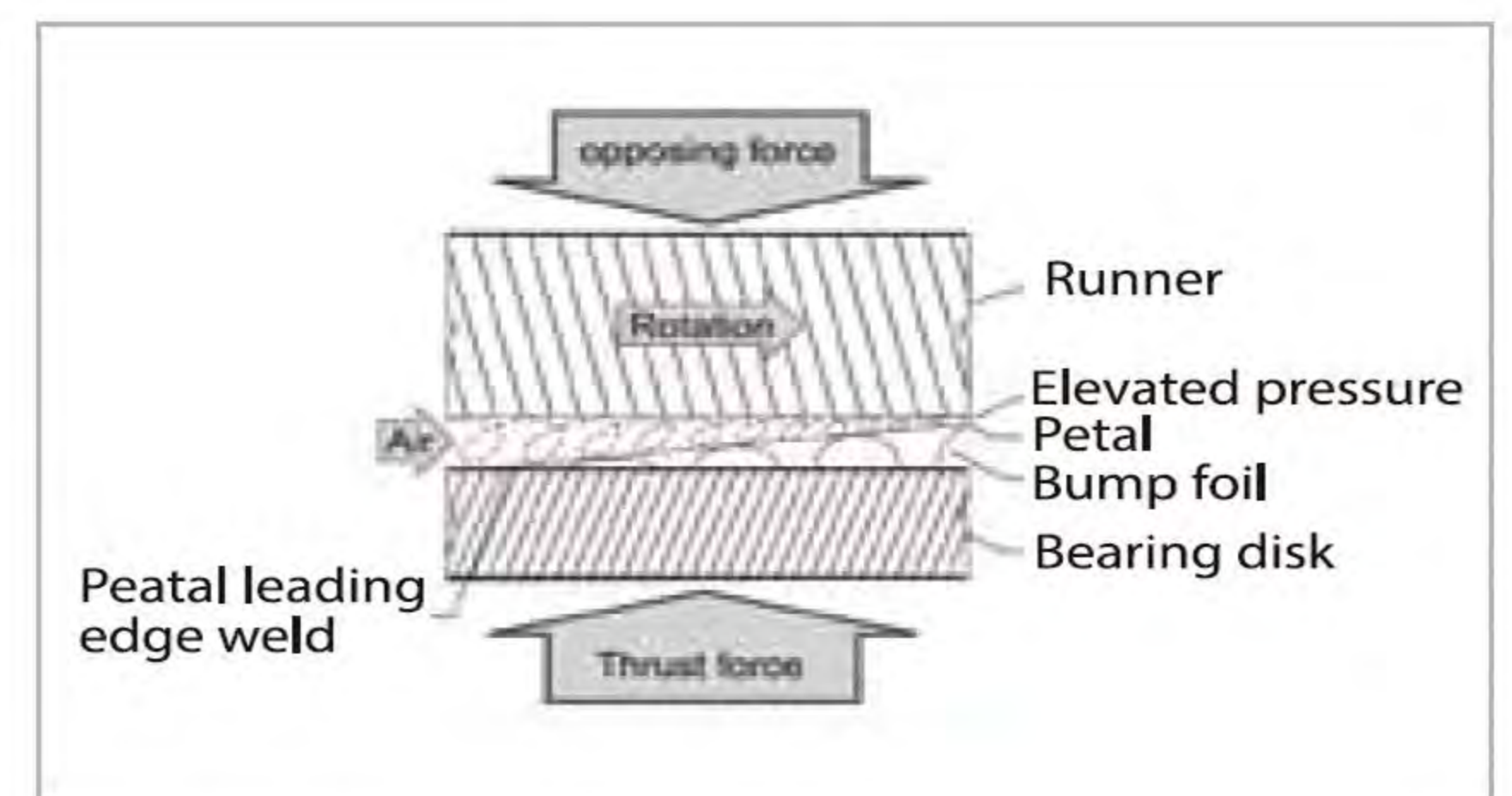
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### Aerospace Air Foil Bearing Technology

- Non-contact air bearing that utilizes the dynamic pressure of air fluid. It is composed of two parts : a corrugated top foil and high temperature alloy inner bump foil. As the rotor speeds up, a thin film of air creates a cushion between the shaft and the bearing surface.
  - 100% Oil-Free no lubricating oil in a rotating machine, it very sample system and can be conveniently to maintenance required.
  - Highest efficiency to minimize power loss and realizes stability and long life based on environmentally friendly air bearing vibration and low noise.
- Air suspension technology has been steadily applied to Airbus aircraft for nearly 20 years



Thrust bearing



Thrust bearing assembly cross-section

#### 1) Stopping



A shaft (a pivot) starts moving the inner surface of bearing.

#### 2) Starting



As the speed is increased, the shaft is gradually moving toward the center.

#### 3) Running



Just before it reaches the normal speed, the shaft is placed at the center of a circle.

## Air Bearing Turbo Blower

## BLOWER FEATURE

### RAETTS TECHNOLOGY

#### Super efficient permanent magnet synchronous motor (PMSM)

The motor efficiency is above 95%



#### Two-stage compression technology

The two-stage impeller is efficiency matched, and the pressure can reach 200kPa



#### Air suspension bearing

Direct drive, transmission efficiency is 100%



#### Original motor air cooling technology

Good cooling effect and simple structure



#### Ternary flow impeller design

It is made of aviation aluminum alloy and five axis machining



#### Intelligent PLC control system

Support three communication methods such as RS485/Dry contact/Ethernet



## Key Features & Characteristics

### ➔ Energy Efficiency

- Energy saving up to 45% to comparable root blower.
- High Efficiency and long life more 10 years

### ➔ Oil free operation & supply of pure air & no-vibration

- Application of non-contact air bearing
- A centrifugal air blower where suction and discharge are conducted on a continual basis
- Zero-vibration products

### ➔ Low Maintenance Cost

- 100% free-oil, Non-lubricating
- Replacing the suction filter only

### ➔ Vibration-Free

- Turbo Blower allows a vibration-free operating
- 75-85 dB equipment Turbo Blower allows a vibration-free operating no need of sound proof auxiliaries

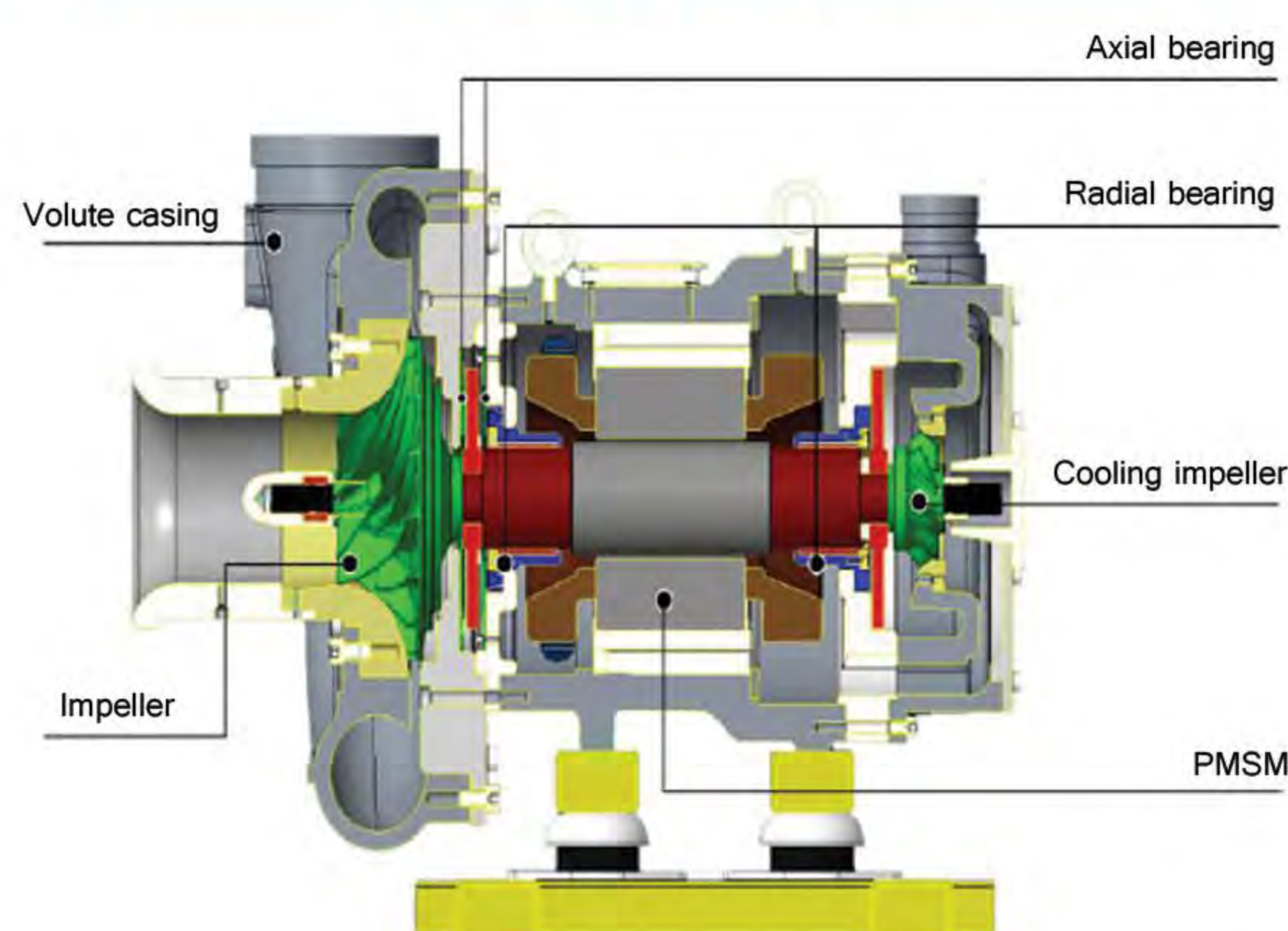
### ➔ Compact size

- The size of Turbo Blower machine is one replace two or three of Root blowers

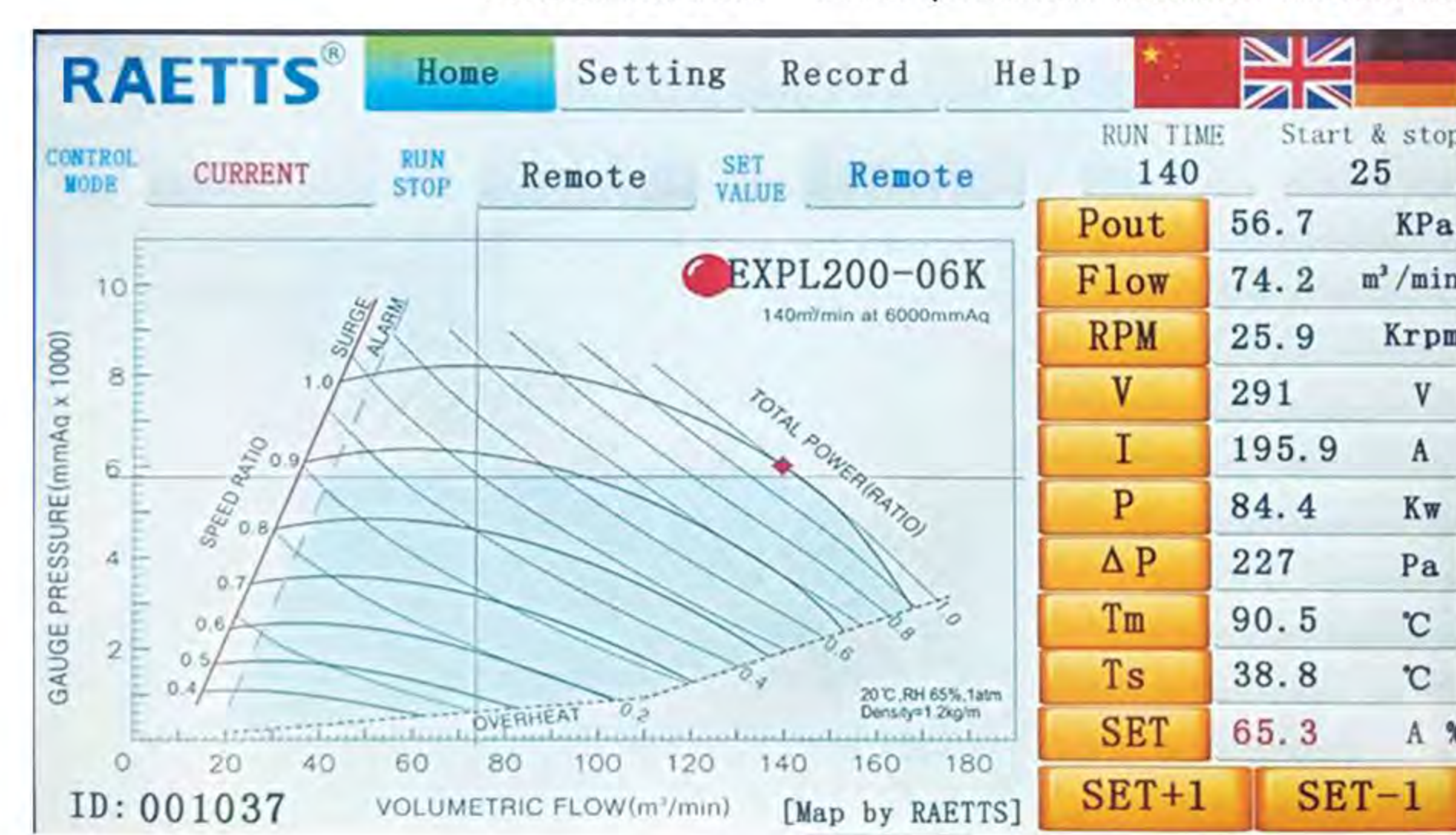
### ➔ Convenient remote control

- Real remote control can be achieved at any time and anywhere through a variety of network facilities such as Internet, mobile network, telephone and so on.

## AIR BEARING TURBO BLOWER Main blower construction



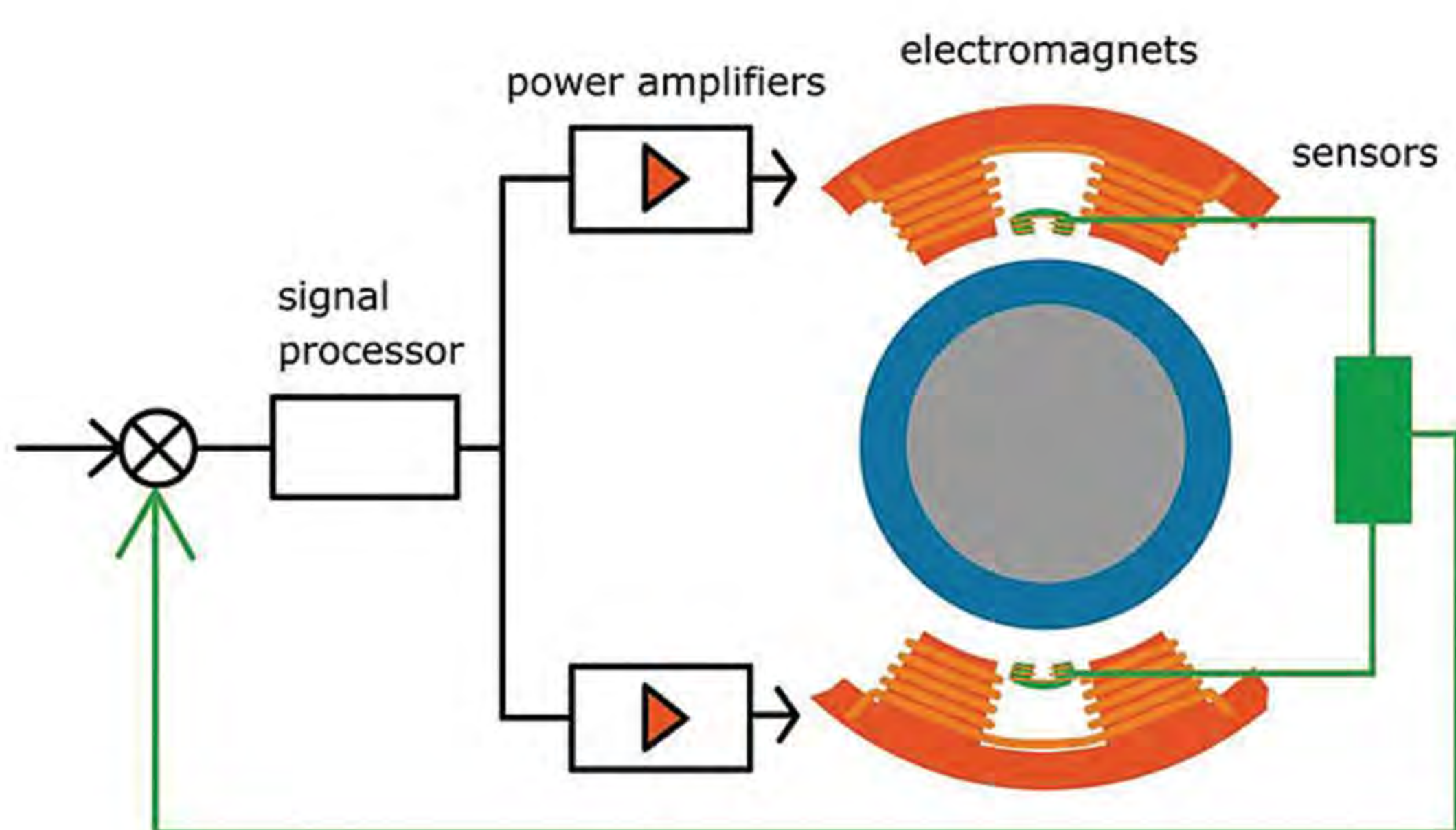
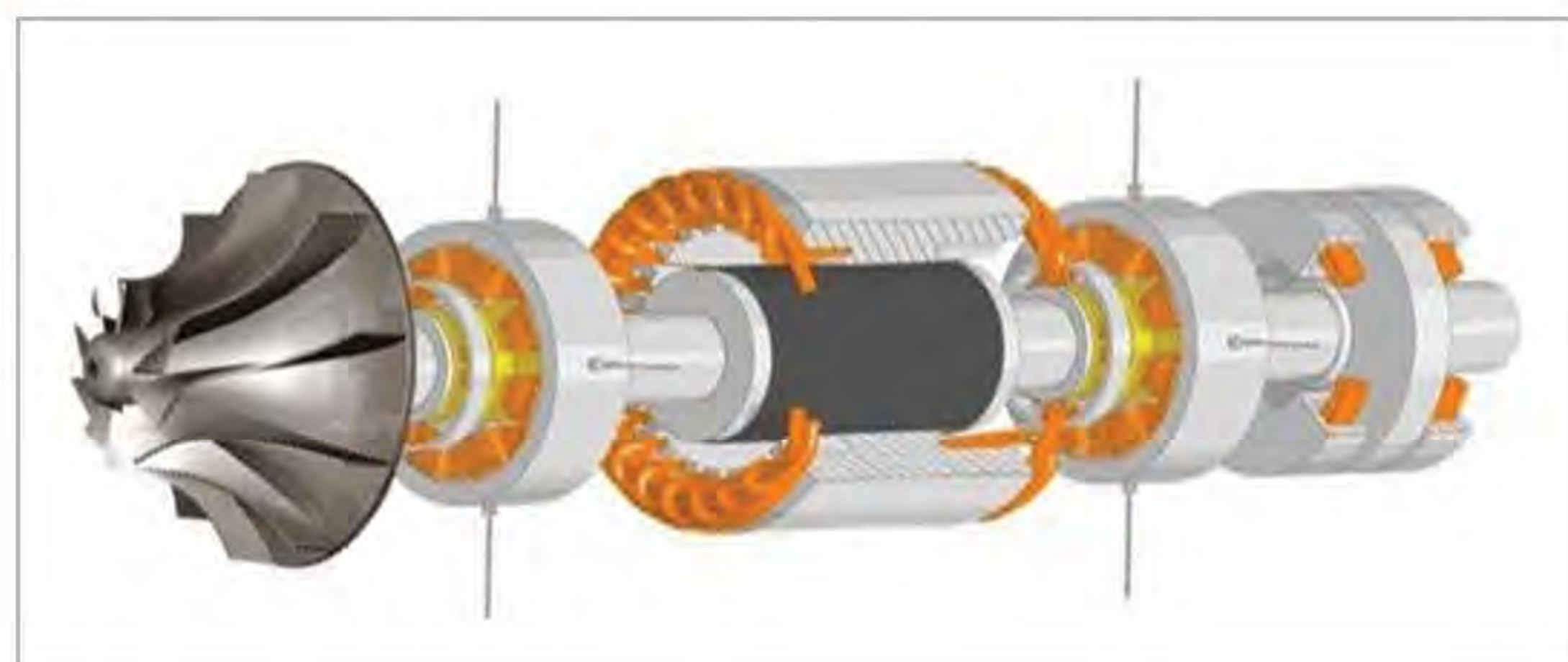
### Touch screen - HMI (Human Monitor Interface)



### Aerospace Magnetic Bearing Technology

#### What are Magnetic Bearings?

Magnetic bearings are a type of bearing that uses magnetic levitation to support a rotating shaft. Unlike traditional bearings that rely on physical contact between the shaft and the bearing, magnetic bearings use magnetic fields to levitate the shaft, eliminating the need for physical contact.



#### How do Magnetic Bearings Work?

Magnetic bearings work by using a combination of permanent magnets and electromagnets to create a magnetic field that levitates the rotating shaft. The magnetic field generated by the bearings is controlled by a feedback system that constantly monitors the position of the shaft and adjusts the magnetic field accordingly to keep the shaft in the desired position.

One of the key advantages of magnetic bearings is that they eliminate the need for lubrication, which can be a significant source of maintenance and downtime in traditional bearings. Additionally, magnetic bearings can operate at much higher speeds than traditional bearings, making them ideal for applications where high speed is critical.

There are two main types of magnetic bearings: active and passive. Active magnetic bearings use electromagnets to actively control the position of the shaft, while passive magnetic bearings rely on the magnetic fields generated by permanent magnets to support the shaft.

#### Active Magnetic Bearings

Active magnetic bearings (AMBs) use an electromagnetic field to suspend and control the position of the rotor. They require an external power supply and control system to maintain the magnetic field. AMBs are ideal for high-speed applications and can provide very precise control over the rotor position and speed. They are commonly used in compressors, blowers, pumps, turbines, and other rotating machinery.

#### Passive Magnetic Bearings

Passive magnetic bearings (PMBs) use permanent magnets to create a magnetic field that suspends the rotor. Unlike AMBs, PMBs do not require an external power supply or control system. They are simpler and less expensive than AMBs, but they are not as precise and cannot support as much weight. PMBs are commonly used in low-speed applications and can be found in fans, motors, and other machinery.

## Maglev Turbo Blower

## BLOWER FEATURE

### RAETTS TECHNOLOGY

#### Ultra-efficient permanent magnet synchronous motor (PMSM)

The Maglev Turbo Blower with permanent magnet synchronous motors have a high efficiency of over 95% and have good cooling effects unlike other general motors

#### Magnetic suspension bearing

Independent research and development, aviation-grade materials, meet full speed drop more than 50 times

#### Ternary flow impeller design

Use ternary flow theory to avoid blade flow separation, reduce flow loss, ensure the smooth flow of air, uniform transmission, and ensure the best flow and efficiency

#### Maglev controller

Intelligent control - can effectively reduce the whirl of the rotor caused by the unbalanced mass of the rotor, and reduce the vibration caused by the rotor at the critical speed state

#### PLC communication system

Built-in remote control communication function, Communication support RS485/RS232/ETHERNET, Clear system wiring, easy maintenance

#### Unique motor air-cooling technology

Air cooling and heat dissipation system of high-efficiency

## Key Features & Characteristics

#### Energy Efficiency

- Energy saving up to 45% to comparable root blower.
- High Efficiency and long life more 20 years

#### Oil free operation & supply of pure air & no-vibration

- Application of non-contact air bearing
- A centrifugal air blower where suction and discharge are conducted on a continual basis
- Zero-vibration products

#### Low Maintenance Cost

- 100% free-oil, Non-lubricating
- Replacing the suction filter only

#### Vibration-Free

- Turbo Blower allows a vibration-free operating
- 75-85 dB equipment Turbo Blower allows a vibration-free operating no need of sound proof auxiliaries

#### Compact size

- The size of Turbo Blower machine is one replace two or three of Root blowers

#### Convenient remote control

- Real remote control can be achieved at any time and anywhere through a variety of network facilities such as Internet, mobile network, telephone and so on.

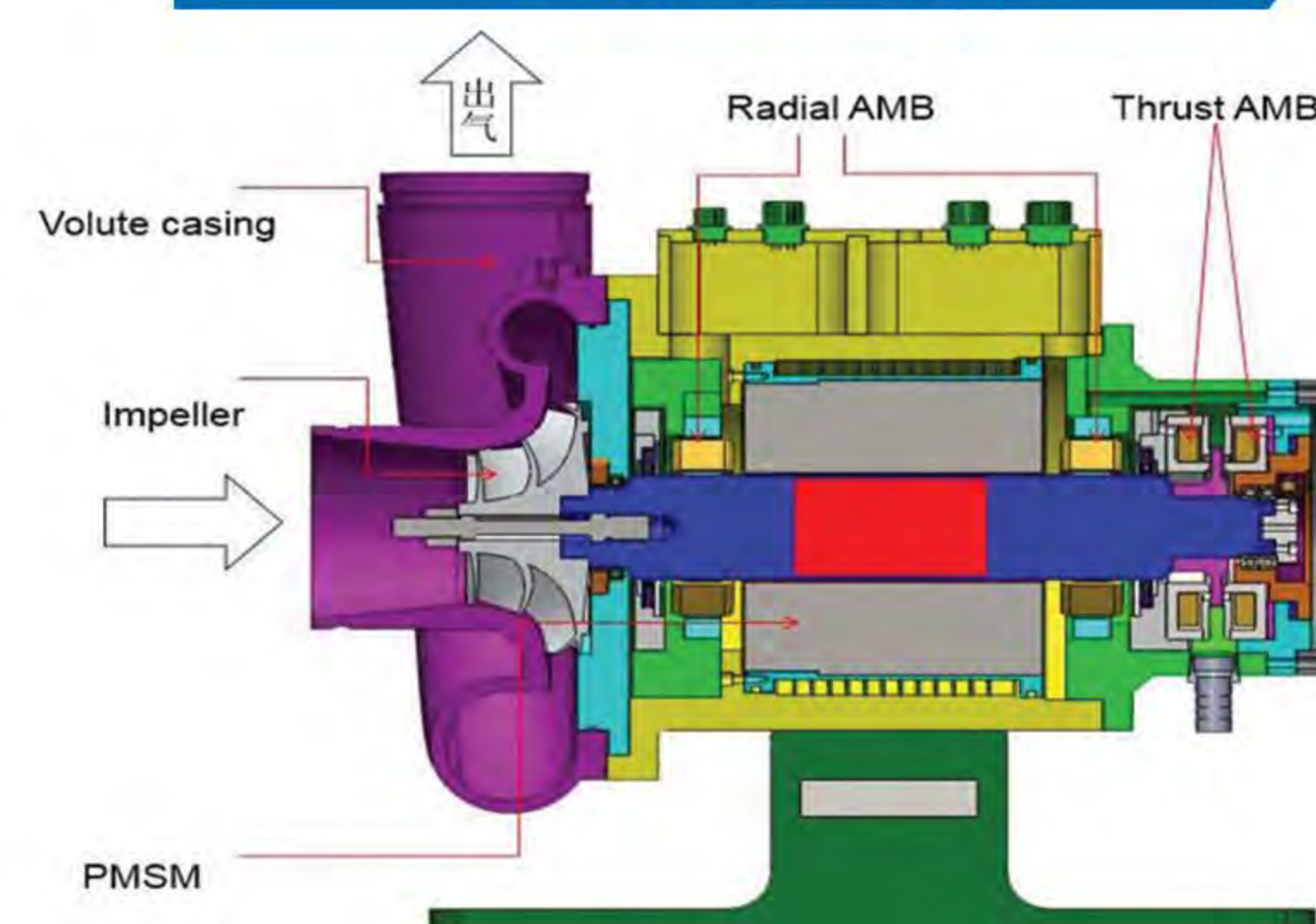
### Active Magnetic Bearing Technology (AMB) & Permanent Magnetic Synchronous Motor (PMSM)



1 Ternary flow impeller 2 Precision sensors 3 Active Magnetic bearing

4 Ultra-efficient permanent magnet synchronous motor 5 Unique motor air-cooling technology

### RAETTS MAGLEV TURBO BLOWER Main blower construction



PERFORMANCE COMPARISON

| Type               | Roots blower                                                                       | Air bearing turbo blower                                                            | Maglev turbo blower                                                                     |
|--------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
|                    |  |  |     |
| Bearing Technology | Conventional Bearing                                                               | Passive Suspension / Air Suspension Bearing                                         | Active Magnetic Suspension / Magnetic levitation Bearing                                |
| Flow adjustment    | Adjustable, need add inverter                                                      | 45-100%                                                                             | 30-100%                                                                                 |
| Noise              | Above 100db                                                                        | 75-85db                                                                             | 75-85db                                                                                 |
| Vibration          | Large                                                                              | Very small                                                                          | Very small                                                                              |
| Bearing Controller | No                                                                                 | Mechanic                                                                            | Electronic                                                                              |
| Lubracation        | Required                                                                           | No need                                                                             | No need                                                                                 |
| Maintenance        | Complex                                                                            | Repalce filter regularly                                                            | Repalce filter regularly                                                                |
| Service life       | 1-5 years                                                                          | 10 years                                                                            | Above 20 years                                                                          |
| Impact load        | Strong                                                                             | The rotor cannot be kept levitating when the external load changes suddenly         | The rotor is under magnetic control when energized. It can work under high-impact lond. |
| Size               | Big                                                                                | Small                                                                               | Small                                                                                   |
| Installation       | Fixed on the ground, soundproofing measure required                                | No fixed and noise-proof measure required                                           | No fixed and noise-proof measure required                                               |
| UPS                | No need                                                                            | No need                                                                             | Needed, Protect the blower in case of sudden power failure.                             |

## Turbo Blower

## BLOWER COMPARISON

### ECONOMIC BENEFITS



**No Need For Lubrication Oil**  
Pure and fresh air to the output.



**Low Maintenance Cost**  
Replace air filter every 3-6 months.



**Low Noise**  
Keep noise below 85dB to offer a pleasant working environment.



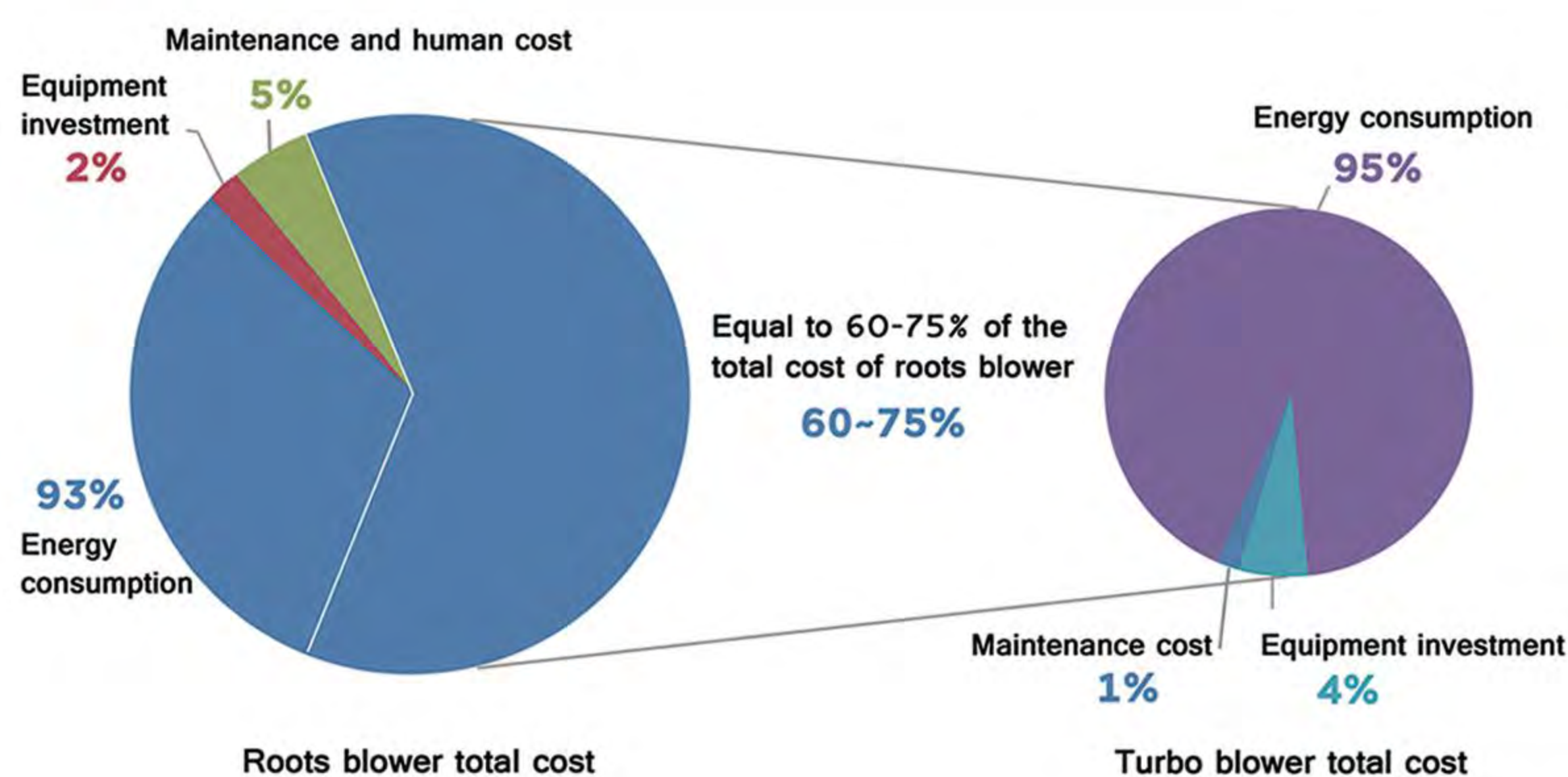
**Energy-Saving**  
The energy saving rate is more than 30% comparing with roots blower.

**Motor efficiency > 95%**

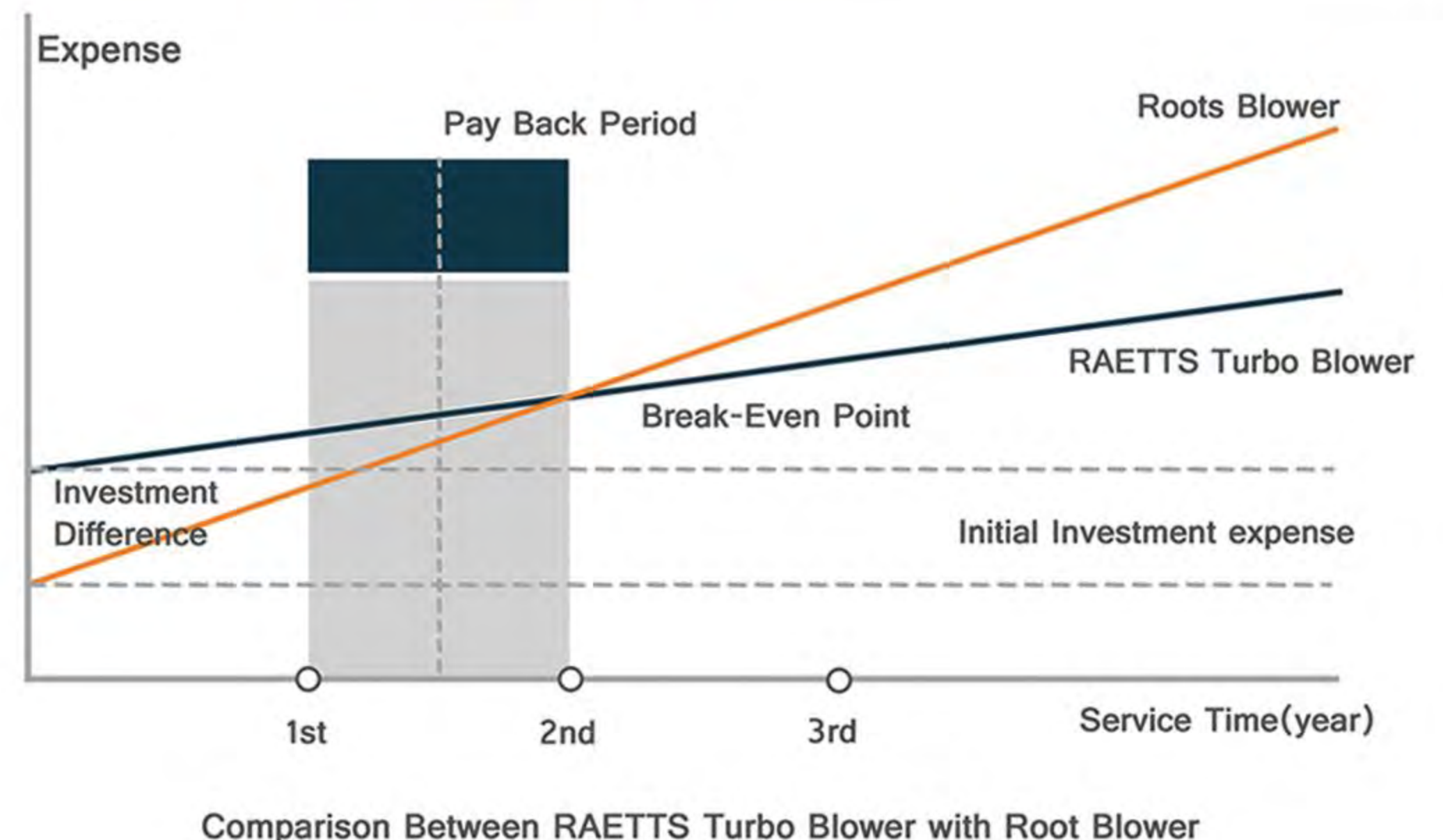
**Ultra low noise < 85dB**

**Energy saving > 30%**

### Cost Comparison



### Return Of Investment (ROI)



## APPLICATION



## APPLICATION & MAINTANACE



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Turbo Blower

APPLICATION & MAINTANACE

INSTALLATION

When the blower is running, there is almost no vibration,so no need to use the ground anchor, and no need for other additional operations. The installation is completed by placing the equipment in the required place, connecting the power supply and pipes. And the horizontal feet can be adjusted under the blower, which is convenient for leveling when install

Simple maintenance



The high efficiency filter system (filter element + filter cotton) filters the air and only needs to replace the filter regularly.

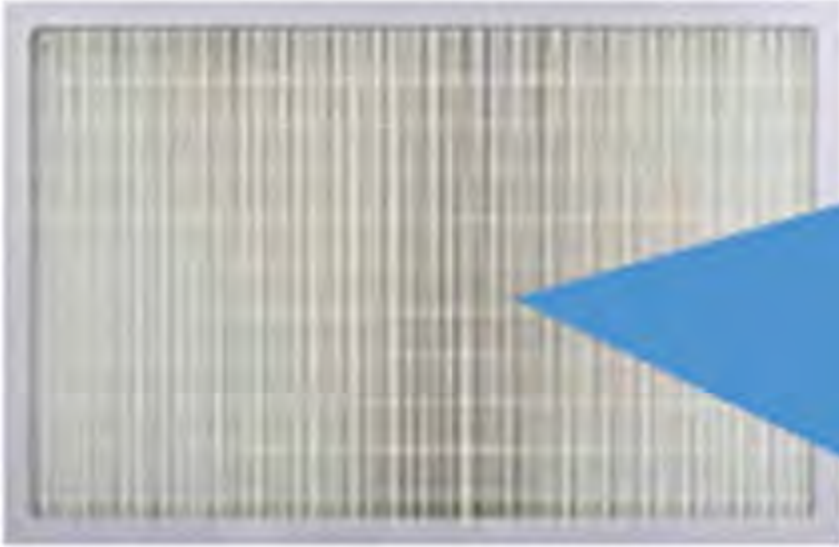


Pre-filter

Low noise and low vibration



Air bearing direct connection technology, no mechanical wear, about-80db@1m Low noise, no need sound insulation device.

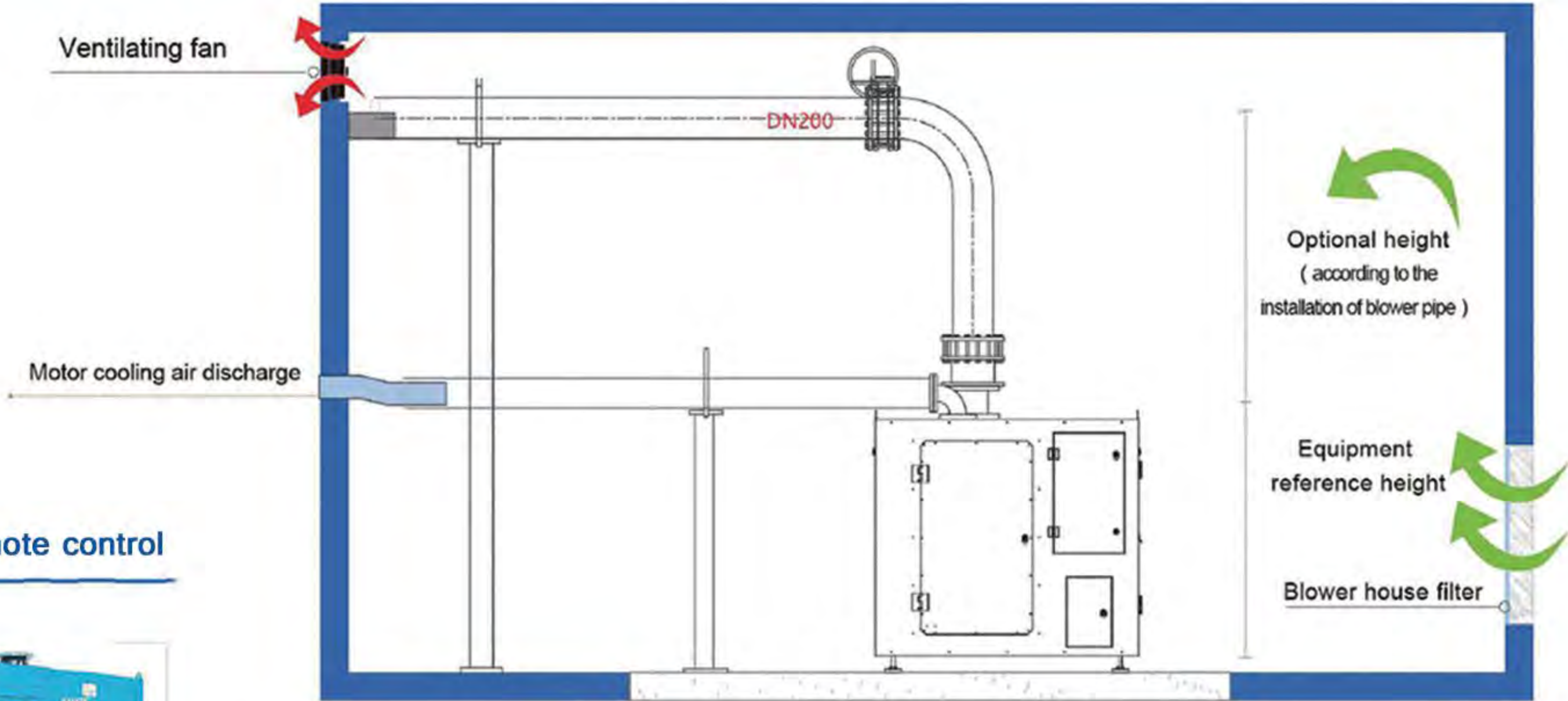


main-filter

Convenient remote control



Through mobile network communication equipment, real remote control can be realized anytime and anywhere.



|                       | New Filtration System                                    |                              | Remarks                                                |
|-----------------------|----------------------------------------------------------|------------------------------|--------------------------------------------------------|
|                       | Pre Filter                                               | Main Filter                  |                                                        |
| Filtration Efficiency | 80% @ 100 μm                                             | 99% @ <0.5 μm                | •Pressure Drop 19.9Pa                                  |
| Type                  | Coarse                                                   | Fine                         |                                                        |
| Material              | Non-woven Fabric                                         | Synthetic Fiber              |                                                        |
| Stage                 | 2 Stages (Pre Filter + Main Filter)                      |                              |                                                        |
| Maintenance           | • Air Wash once a week<br>• Replacement every 1-3 months | Replacement every 3-6 months | •Warning & Fault Alarms<br>•Depending on Circumstances |

GLOBAL INNOVATOR OF ENERGY-SAVING BLOWER SYSTEM SOLUTIONS

Portable Air Bearing Turbo Blower

A two-year warranty

BLOWER SELECTION

KONRAD series



KONRAD series

| Model      | Type               | Motor power |      | Flow     | Pressure<br>(bar) | Outlet<br>diameter<br>DN (mm) | Dimension (mm) |      |      |     |
|------------|--------------------|-------------|------|----------|-------------------|-------------------------------|----------------|------|------|-----|
|            |                    | (HP)        | (kW) | (m³/min) |                   |                               | W              | L    | H    |     |
| EXPL10-04B | Single<br>impeller | 10          | 7.5  | 10       | 0.4               | 100                           | 725            | 1200 | 1045 |     |
| EXPL10-06B |                    |             |      | 7        | 0.6               |                               |                |      |      |     |
| EXPL15-04B |                    | 15          | 11   | 15       | 0.4               |                               |                |      |      |     |
| EXPL15-06B |                    |             |      | 10       | 0.6               |                               |                |      |      |     |
| EXPL15-08B |                    |             |      | 8        | 0.8               |                               |                |      |      |     |
| EXPL20-04B |                    | 20          | 15   | 20       | 0.4               |                               |                |      |      |     |
| EXPL20-06B |                    |             |      | 14       | 0.6               |                               |                |      |      |     |
| EXPL20-08B |                    |             |      | 11       | 0.8               |                               |                |      |      |     |
| EXPL30-04B |                    | 30          | 22   | 28       | 0.4               |                               |                |      |      |     |
| EXPL30-06B |                    |             |      | 20       | 0.6               |                               |                |      |      |     |
| EXPL30-08B |                    |             |      | 17       | 0.8               |                               |                |      |      |     |
| EXPL50-04B |                    | 50          | 37   | 48       | 0.4               |                               |                |      |      | 150 |
| EXPL50-06B |                    |             |      | 34       | 0.6               |                               |                |      |      |     |
| EXPL50-08B |                    |             |      | 28       | 0.8               |                               |                |      |      |     |

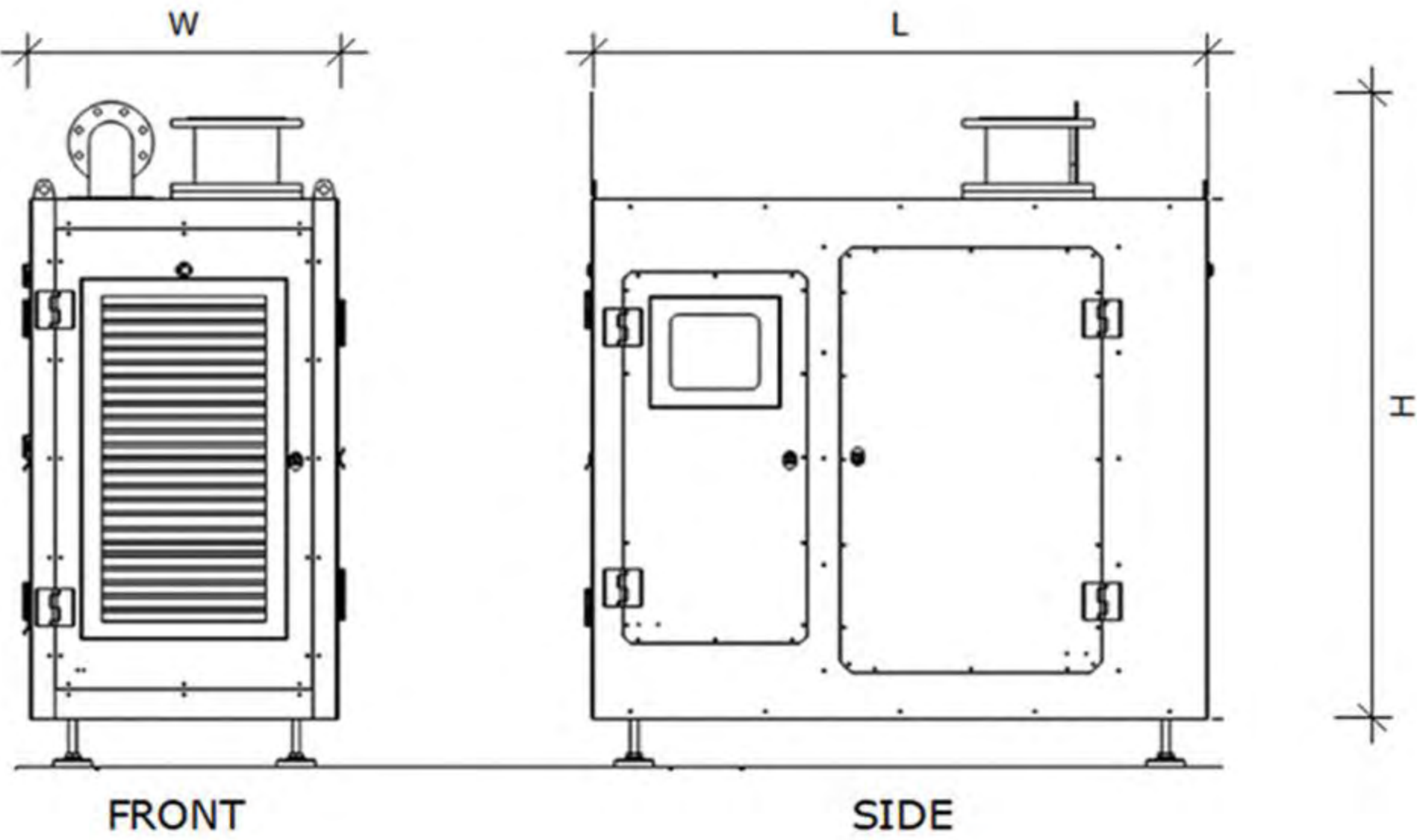
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Air Bearing Turbo Blower

A two-year warranty

BLOWER SELECTION

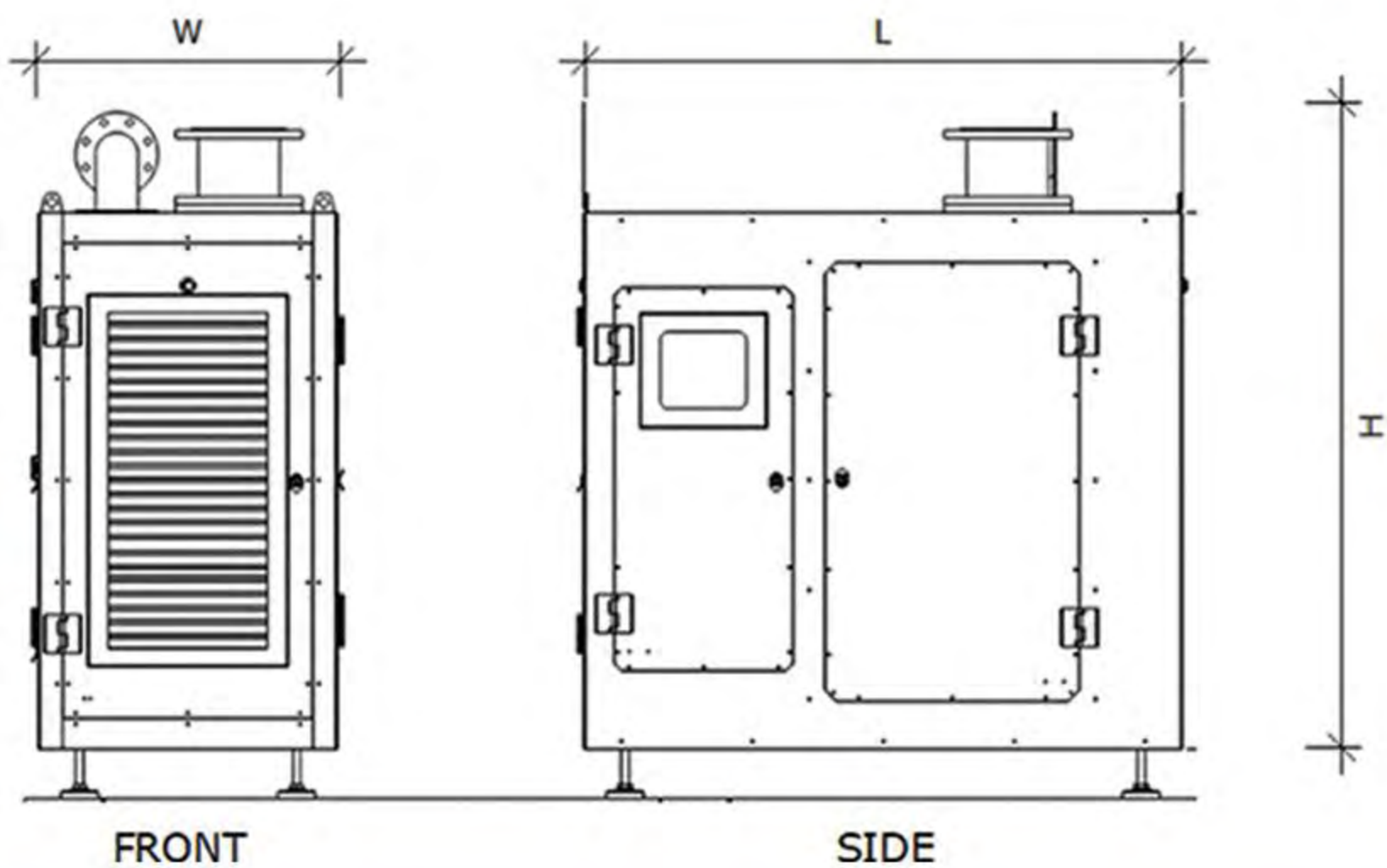
| Model       | Type            | Motor power |      | Flow | Pressure | Outlet diameter | Dimension [EXPL(K)/EXPL] |       |       | Weight [EXPL(K)/EXPL] |
|-------------|-----------------|-------------|------|------|----------|-----------------|--------------------------|-------|-------|-----------------------|
|             |                 | (HP)        | (kW) |      |          |                 | W(mm)                    | L(mm) | H(mm) |                       |
| EXPL10-04K  | Single Impeller | 10          | 7.5  | 10   | 0.4      | 150             | 700                      | 1600  | 1600  | 532                   |
| EXPL10-06K  |                 |             |      | 7    | 0.6      |                 |                          |       |       |                       |
| EXPL10-08K  |                 |             |      | 5    | 0.8      |                 |                          |       |       |                       |
| EXPL20-04k  |                 | 20          | 15   | 20   | 0.4      |                 |                          |       |       | 532                   |
| EXPL20-06K  |                 |             |      | 14   | 0.6      |                 |                          |       |       |                       |
| EXPL20-08K  |                 |             |      | 11   | 0.8      |                 |                          |       |       |                       |
| EXPL30-04K  |                 | 30          | 22   | 28   | 0.4      |                 |                          |       |       | 532                   |
| EXPL30-06K  |                 |             |      | 20   | 0.6      |                 |                          |       |       |                       |
| EXPL30-08K  |                 |             |      | 17   | 0.8      |                 |                          |       |       |                       |
| EXPL50-04K  |                 | 50          | 37   | 48   | 0.4      |                 |                          |       |       |                       |
| EXPL50-06K  |                 |             |      | 34   | 0.6      |                 |                          |       |       |                       |
| EXPL50-08K  |                 |             |      | 28   | 0.8      |                 |                          |       |       |                       |
| EXPL50-10K  |                 |             |      | 22   | 1.0      |                 |                          |       |       |                       |
| EXPL50-12K  |                 |             |      | 19   | 1.2      |                 |                          |       |       |                       |
| EXPL75-04K  |                 | 75          | 55   | 75   | 0.4      | 200             | 800                      | 1600  | 1800  | 654                   |
| EXPL75-06K  |                 |             |      | 51   | 0.6      |                 |                          |       |       |                       |
| EXPL75-08K  |                 |             |      | 42   | 0.8      |                 |                          |       |       |                       |
| EXPL75-10K  |                 |             |      | 33   | 1.0      |                 |                          |       |       |                       |
| EXPL75-12K  |                 |             |      | 29   | 1.2      |                 |                          |       |       |                       |
| EXPL100-04K |                 | 100         | 75   | 100  | 0.4      |                 |                          |       |       |                       |
| EXPL100-06K |                 |             |      | 70   | 0.6      |                 |                          |       |       |                       |
| EXPL100-08K |                 |             |      | 55   | 0.8      |                 |                          |       |       |                       |
| EXPL100-10K |                 |             |      | 45   | 1.0      |                 |                          |       |       |                       |
| EXPL100-12K |                 |             |      | 40   | 1.2      |                 |                          |       |       |                       |
| EXPL125-04K |                 | 125         | 95   | 120  | 0.4      | 250             | 1000                     | 1700  | 1950  | 850                   |
| EXPL125-06K |                 |             |      | 82   | 0.6      |                 |                          |       |       |                       |
| EXPL125-08K |                 |             |      | 70   | 0.8      |                 |                          |       |       |                       |
| EXPL125-10K |                 |             |      | 58   | 1.0      |                 |                          |       |       |                       |
| EXPL125-12K |                 |             |      | 50   | 1.2      |                 |                          |       |       |                       |
| EXPL150-04K |                 | 150         | 110  | 130  | 0.4      |                 |                          |       |       | 925                   |
| EXPL150-06K |                 |             |      | 105  | 0.6      |                 |                          |       |       |                       |
| EXPL150-08K |                 |             |      | 84   | 0.8      |                 |                          |       |       |                       |
| EXPL150-10K |                 |             |      | 70   | 1.0      |                 |                          |       |       |                       |
| EXPL150-12K |                 |             |      | 58   | 1.2      |                 |                          |       |       |                       |
| EXPL200-04K |                 | 200         | 150  | 200  | 0.4      | 300             | 1100                     | 1800  | 1950  | 1060                  |
| EXPL200-06K |                 |             |      | 140  | 0.6      |                 |                          |       |       |                       |
| EXPL200-08K |                 |             |      | 110  | 0.8      |                 |                          |       |       |                       |
| EXPL200-10K |                 |             |      | 95   | 1.0      |                 |                          |       |       |                       |
| EXPL200-12K |                 |             |      | 80   | 1.2      |                 |                          |       |       |                       |
| EXPL250-04K |                 | 250         | 185  | 245  | 0.4      |                 |                          |       |       | 1080                  |
| EXPL250-06K |                 |             |      | 160  | 0.6      |                 |                          |       |       |                       |
| EXPL250-08K |                 |             |      | 135  | 0.8      |                 |                          |       |       |                       |
| EXPL250-10K |                 |             |      | 115  | 1.0      |                 |                          |       |       |                       |
| EXPL250-12K |                 |             |      | 98   | 1.2      |                 |                          |       |       |                       |



Maglev Turbo Blower

A two-year warranty

BLOWER SELECTION



| Model      | Type            | Motor power |        | Flow       | Pressure | Outlet diameter | Dimension ( mm ) |      |      | Weight |
|------------|-----------------|-------------|--------|------------|----------|-----------------|------------------|------|------|--------|
|            |                 | ( HP )      | ( KW ) | ( m³/min ) | ( bar )  | DN (mm)         | W                | L    | H    | ( kg ) |
| CXPL30-04  | Single impeller | 30          | 22     | 28         | 0.4      | 150             | 850              | 1750 | 1640 | 735    |
| CXPL30-06  |                 |             |        | 20         | 0.6      |                 |                  |      |      |        |
| CXPL30-08  |                 |             |        | 17         | 0.8      |                 |                  |      |      |        |
| CXPL50-04  |                 | 50          | 37     | 48         | 0.4      | 150             | 850              | 1750 | 1640 | 735    |
| CXPL50-06  |                 |             |        | 34         | 0.6      |                 |                  |      |      |        |
| CXPL50-08  |                 |             |        | 28         | 0.8      |                 |                  |      |      |        |
| CXPL50-10  |                 |             |        | 22         | 1        |                 |                  |      |      |        |
| CXPL50-12  |                 |             |        | 19         | 1.2      |                 |                  |      |      |        |
| CXPL75-04  |                 | 75          | 55     | 75         | 0.4      | 200             | 950              | 1830 | 1740 | 967    |
| CXPL75-06  |                 |             |        | 51         | 0.6      |                 |                  |      |      |        |
| CXPL75-08  |                 |             |        | 42         | 0.8      |                 |                  |      |      |        |
| CXPL75-10  |                 |             |        | 33         | 1        |                 |                  |      |      |        |
| CXPL75-12  |                 |             |        | 29         | 1.2      |                 |                  |      |      |        |
| CXPL100-04 |                 | 100         | 75     | 100        | 0.4      | 200             | 950              | 1830 | 1740 | 967    |
| CXPL100-06 |                 |             |        | 70         | 0.6      |                 |                  |      |      |        |
| CXPL100-08 |                 |             |        | 55         | 0.8      |                 |                  |      |      |        |
| CXPL100-10 |                 |             |        | 45         | 1        |                 |                  |      |      |        |
| CXPL100-12 |                 |             |        | 40         | 1.2      |                 |                  |      |      |        |
| CXPL125-04 |                 | 125         | 95     | 120        | 0.4      | 250             | 1100             | 1950 | 1870 | 1040   |
| CXPL125-06 |                 |             |        | 82         | 0.6      |                 |                  |      |      |        |
| CXPL125-08 |                 |             |        | 70         | 0.8      |                 |                  |      |      |        |
| CXPL125-10 |                 |             |        | 58         | 1        |                 |                  |      |      |        |
| CXPL125-12 |                 |             |        | 50         | 1.2      |                 |                  |      |      |        |
| CXPL150-04 |                 | 150         | 110    | 130        | 0.4      | 250             | 1100             | 1950 | 1870 | 1250   |
| CXPL150-06 |                 |             |        | 105        | 0.6      |                 |                  |      |      |        |
| CXPL150-08 |                 |             |        | 84         | 0.8      |                 |                  |      |      |        |
| CXPL150-10 |                 |             |        | 70         | 1        |                 |                  |      |      |        |
| CXPL150-12 |                 |             |        | 53         | 1.2      |                 |                  |      |      |        |

| Model      | Type               | Motor power |        | Flow       | Pressure | Outlet diameter | Dimension （mm） |      |      | Weight |      |      |      |     |      |      |      |      |
|------------|--------------------|-------------|--------|------------|----------|-----------------|----------------|------|------|--------|------|------|------|-----|------|------|------|------|
|            |                    | （ HP ）      | （ KW ） | （ m³/min ） | （ bar ）  | DN (mm)         | W              | L    | H    | （ kg ） |      |      |      |     |      |      |      |      |
| CXPL200-04 | Single<br>impeller | 200         | 150    | 200        | 0.4      | 300             | 1100           | 2050 | 1870 | 1400   |      |      |      |     |      |      |      |      |
| CXPL200-06 |                    |             |        | 140        | 0.6      |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL200-08 |                    |             |        | 110        | 0.8      |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL200-10 |                    |             |        | 95         | 1        |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL200-12 |                    |             |        | 80         | 1.2      |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL200-20 |                    |             |        | 60         | 2        |                 | 1250           | 2350 | 2160 | 1900   |      |      |      |     |      |      |      |      |
| CXPL250-04 |                    | 250         | 185    | 245        | 0.4      | 500             | 1500           | 3200 | 2370 | 1450   |      |      |      |     |      |      |      |      |
| CXPL250-06 |                    |             |        | 160        | 0.6      | 400             |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL250-08 |                    |             |        | 135        | 0.8      |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL250-10 |                    |             |        | 105        | 1        |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL250-12 |                    |             |        | 98         | 1.2      |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL300-04 |                    | 300         | 220    | 290        | 0.4      | 400             |                |      |      | 1600   |      |      |      |     |      |      |      |      |
| CXPL300-06 |                    |             |        | 210        | 0.6      |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL300-08 |                    |             |        | 164        | 0.8      |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL300-10 |                    |             |        | 133        | 1        |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL300-12 |                    |             |        | 112        | 1.2      | 400             |                |      |      | 1600   |      |      |      |     |      |      |      |      |
| CXPL400-04 | Double<br>impeller | 400         | 300    | 400        | 0.4      | 400             |                |      |      | 1500   | 3700 | 2870 | 1800 |     |      |      |      |      |
| CXPL400-06 |                    |             |        | 280        | 0.6      |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL400-08 |                    |             |        | 216        | 0.8      |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL400-10 |                    |             |        | 176        | 1        |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL400-12 |                    |             |        | 156        | 1.2      |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL450-04 |                    | 450         | 350    | 450        | 0.4      | 500             | 1500           | 3700 | 2870 |        |      |      | 3000 |     |      |      |      |      |
| CXPL450-06 |                    |             |        | 303        | 0.6      |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL450-08 |                    |             |        | 233        | 0.8      |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL450-10 |                    |             |        | 198        | 1        |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL450-12 |                    |             |        | 175        | 1.2      |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL500-04 |                    | 500         | 375    | 470        | 0.4      |                 |                |      |      |        |      |      |      | 500 | 1500 | 3700 | 2870 | 3000 |
| CXPL500-06 |                    |             |        | 328        | 0.6      |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL500-08 |                    |             |        | 254        | 0.8      |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL500-10 |                    |             |        | 212        | 1        |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL500-12 |                    |             |        | 183        | 1.2      |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL600-04 |                    | 600         | 450    | 566        | 0.4      |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL600-06 |                    |             |        | 397        | 0.6      |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL600-08 |                    |             |        | 311        | 0.8      |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL600-10 |                    |             |        | 260        | 1        |                 |                |      |      |        |      |      |      |     |      |      |      |      |
| CXPL600-12 |                    |             |        | 225        | 1.2      |                 |                |      |      |        |      |      |      |     |      |      |      |      |



### Industry-Thailand



F&B - 200HP



Pulp & Paper - 75HP



Pulp & Paper - 75HP



Furniture - 75HP



Foods & Berkary - 20HP



Metal - 20HP



F&B - 20HP



Automotive - 20HP



Leather - 200HP



Automotive - 2x 30HP



Electronic - 30HP



Sewage Municipality  
100HP



Leather - 2x 20HP



Pulp & Paper - 3x 400HP



Pulp & Paper - 75HP & 10HP



Automotive  
20HP

### Industry-Global



Landfill Leachate Treatment in  
Mayong, Dongguan



Sewage treatment factory in  
Changxing Hongqiao



50,000 tons of sewage  
treatment in Anhui



Landfill Leachate Treatment  
Project in Guiyang



Shiziling sewage treatment  
factory in Hainan



Sewage treatment factory  
at Guodian Galaxy



Sewage treatment factory  
in Guangxi



coal industry Sewage  
treatment factory



Sewage Treatment Station  
In Xuzhou Tongshan District



Sewage Treatment Station  
In Xuzhou Tongshan District