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INTEGRITY AND WIN-WIN


浙江荣文风机有限公司
ZHEJIANG RONG WEN FANS CO., LTD

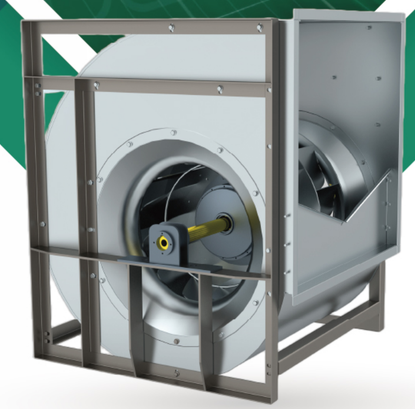
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2026版

荣文风机
RONG WEN FENG JI

# 空调通风技术手册
# TECHNOLOGICAL MANUAL



| | |
|---|---|
| 【极致紧凑，释放空间】 | Ultra-Compact, Space-Saving |
| 【超高效节能，一年回本】 | Highly Efficient & Energy-Saving, Payback in One Year |
| 【智能调速，随心所控】 | Intelligent Speed Control, Total Command |
| 【双端支撑，寿命倍增】 | Dual-End Support, Extended Lifespan |
| 【军工品质，长时运转】 | Military-Grade Quality, Continuous Operation |

**后倾外传子永磁电机——为工业节能与精密控制而生**

浙江荣文风机有限公司
ZHEJIANG RONG WEN FANS CO., LTD

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# 公司简介
# COMPANY PROFILE

公司自2004年成立以来，秉承“诚信、认真、负责、创新”的企业精神，生产设备齐全，产品种类丰富，质量管理体系完善。公司拥有国内外先进设备30多台套，其中德国数控折弯中心、数控砖塔冲、激光切割机、精密冲床，大型液压机，成套模具，等一系列专用流水线设备在生产过程中发挥着重要作用，具备年产100万套风机配件的制造能力；公司产品主要有消防排烟风机、隧道射流风机、高效混(斜)流风机、空调风机、屋顶(RTC铝制)风机、诱导风机、防爆风机、防腐风机、轴流风机、管道风机等三十多个系列、一千多个品种规格；公司切实持续推行6S管理，并通过1S09001国际质量体系认证，生产的“HTF、HTFC、PYHL、SDS、RTC”等系列率先通过“国家消防装备质量监督检验中心”型式检验并取得合格证书。经过多年市场建设，“荣文风机”以卓越的质量、周到的服务和良好的信誉，成为风机行业中的知名品牌。产品畅销海内外，广泛应用于商业建筑、工业工程、汽车、冶金、新能源，高级民用建筑等行业，深受广大用户的一致好评。






Zhejiang Rong Wen Fan Co., Ltd. is a modern enterprise specializing in the design, development, and marketing of fans (fan accessories) and air-cooled equipment for various industrial manufacturing and engineering construction.

Established in 2004, our company upholds the corporate ethos of "Integrity, Diligence, Responsibility, and Innovation". Equipped with comprehensive production facilities, a diverse product portfolio, and a robust quality management system, we have solidified our position as an industry leader. We operate 30+ sets of advanced domestic and international equipment,  Our offerings span 30+ product series and 1,000+ models/specifications, including:

**- Fire and smoke exhaust fans (HTF/HTFC series)**
**- Tunnel jet fans (SDS series)**
**- High-efficiency mixed/oblique flow fans**
**- HVAC system fans**
**- RTC aluminum rooftop fans**
**- Induced draft fans**
**- Explosion-proof and corrosion-resistant fans**
**- Axial and duct fans**




We rigorously implement the 6S management system and maintain  ISO 9001 international quality certification. Key product lines (HTF, HTFC, PYHL, SDS, RTC) have obtained type testing certification from the “National Fire Protection Equipment Quality Supervision and Inspection Center”, ensuring full compliance with national standards.

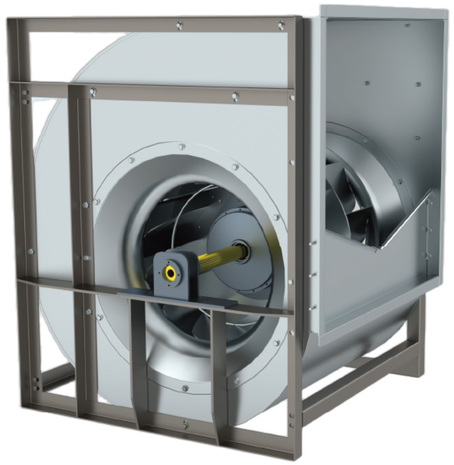
After years of market development, Rongwen Fans has emerged as a renowned brand in the fan industry, distinguished by its superior quality, comprehensive services, and strong reputation. The company's products are sold globally and widely utilized across diverse sectors, including commercial construction, industrial engineering, automotive, metallurgy, new energy, and high-end civil construction. These offerings have garnered widespread acclaim from users worldwide.

# 后倾外转子永磁智能风机

## REAR TILTED EXTERNAL ROTOR PERMANENT MAGNET SMART FAN

在追求极致能效与空间利用率的今天，传统的电机传动方案已难以满足高端设备的需求。荣文电机全新一代后倾外传子永磁电机，以创新的结构设计和卓越的材料工艺，为您带来五大核心价值：

In today's pursuit of ultimate energy efficiency and space utilization, traditional motor transmission solutions are no longer able to meet the needs of high-end equipment. Rongwen Motor's new generation of backward-inclined external transmission permanent magnet motor brings you five core values with its innovative structural design and excellent material technology:



### 【极致紧凑，释放空间】Extremely compact, freeing up space

采用独特的后倾式外转子结构，将转子置于外部，定子置于内部，实现了电机与负载（如叶轮）的直接集成。这种设计彻底摒弃了复杂的传动支架，相比传统电机节约安装空间30%以上，让您的设备结构更紧凑，设计更自由。

It adopts a unique backward-inclined outer rotor structure, placing the rotor on the outside and the stator on the inside, achieving direct integration of the motor and the load (such as an impeller). This design completely abandons the complex transmission bracket, saving more than 30% of the installation space compared to traditional motors, making your equipment more compact and free in design.





### 【超高效节能，一年回本】Super efficient and energy-saving, payback within one year

依托永磁同步技术，电机在运行时转子无感应损耗，励磁零损耗。相比传统三相交流异步电机，效率提升显著，综合节能率高达15%-30%。尤其在低转速、轻载工况下，节能效果更为惊人。以一台7.5kW电机为例，一年节约的电费成本即可覆盖采购差价，真正实现“越用越省钱”。

Relying on permanent magnet synchronous technology, the motor has no induction loss in the rotor and zero excitation loss when the motor is running. Compared with traditional three-phase AC asynchronous motors, the efficiency is significantly improved, and the comprehensive energy saving rate is as high as 15%-30%. Especially under low speed and light load conditions, the energy saving effect is even more amazing. Taking a 7.5kW motor as an example, the electricity cost saved in one year can cover the purchase price difference, truly realizing "the more you use, the more you save."

### 【智能调速，随心所控】Intelligent speed adjustment, control as you wish

完美适配各类变频器，实现无级调速。无论是平稳启动减少冲击，还是根据工况实时调整转速，只需一个旋钮或一段程序，即可精准控制风量、流量。智能控制接口的预留，让您轻松接入物联网系统，打造无人化智慧工厂。

Perfectly adaptable to various types of frequency converters to achieve stepless speed regulation. Whether it is starting smoothly to reduce impact, or adjusting the speed in real time according to working conditions, you only need a knob or a program to accurately control the air volume and flow rate. The reserved intelligent control interface allows you to easily access the Internet of Things system and create an unmanned smart factory.

### 【双端支撑，寿命倍增】Double-end support, doubled lifespan

区别于普通电机的外转子悬臂结构，我们坚持采用两端支撑设计，配合高品质深沟球轴承。这种结构大大增强了转子的运行稳定性，减少了震动和噪音，有效解决了传统外转子电机在重载下轴承易磨损的痛点，整机使用寿命显著延长，维护成本几乎为零。

Different from the outer rotor cantilever structure of ordinary motors, we insist on using a support design at both ends and match high-quality deep groove ball bearings. This structure greatly enhances the operational stability of the rotor, reduces vibration and noise, and effectively solves the pain point of traditional external rotor motors that the bearings are prone to wear under heavy loads. The service life of the entire machine is significantly extended, and the maintenance cost is almost zero.

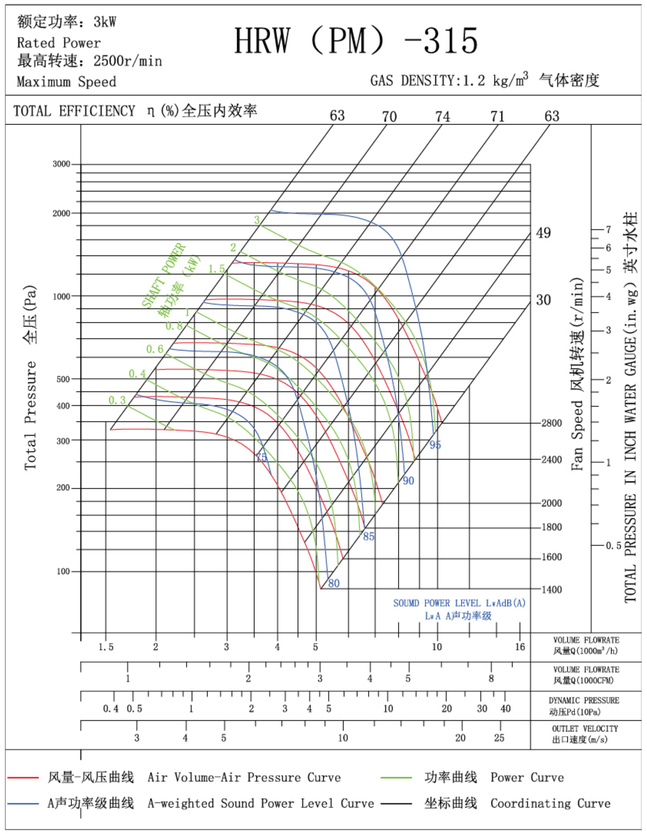
### 【军工品质，长时运转】Military quality, long-term operation

结构简单，发热更低，加之严谨的散热设计，确保电机可在24小时连续工况下可靠运行。选择我们，就是选择了一份长达十年的稳定生产力。

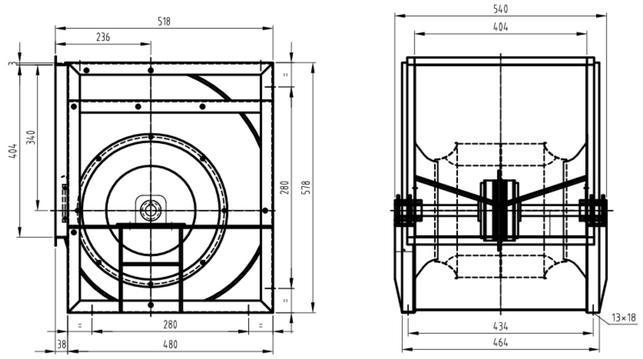
The simple structure, lower heat generation, and rigorous heat dissipation design ensure that the motor can operate reliably under 24-hour continuous working conditions. Choosing us means choosing a stable productivity that lasts for ten years.

# HRW（PM）-315

## 技术参数 Technical Data




## 外形及安装尺寸 Overall Size

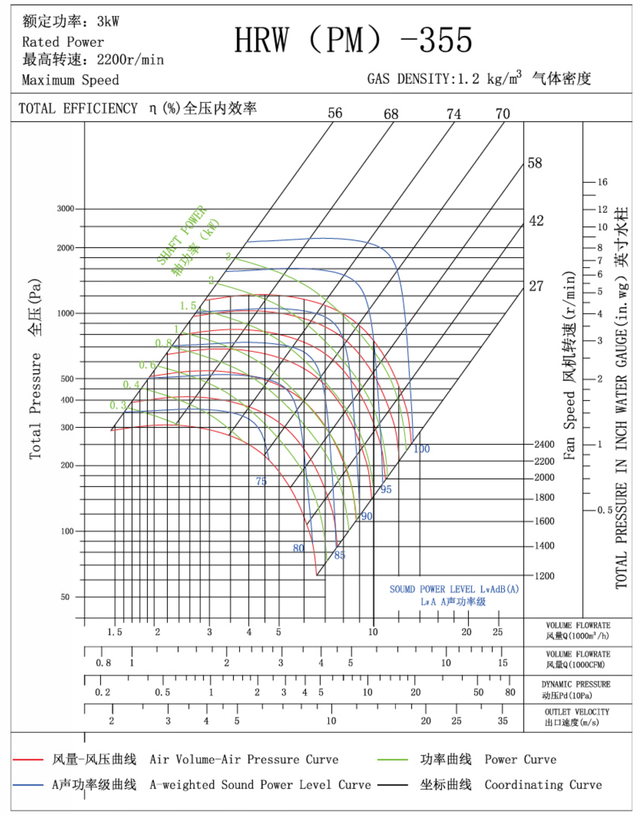




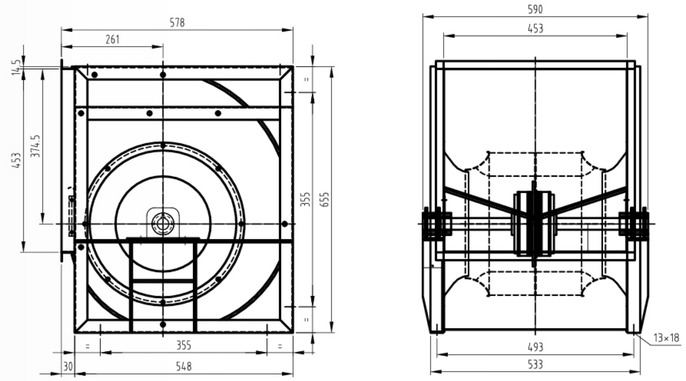



# HRW（PM）-355

## 技术参数 Technical Data

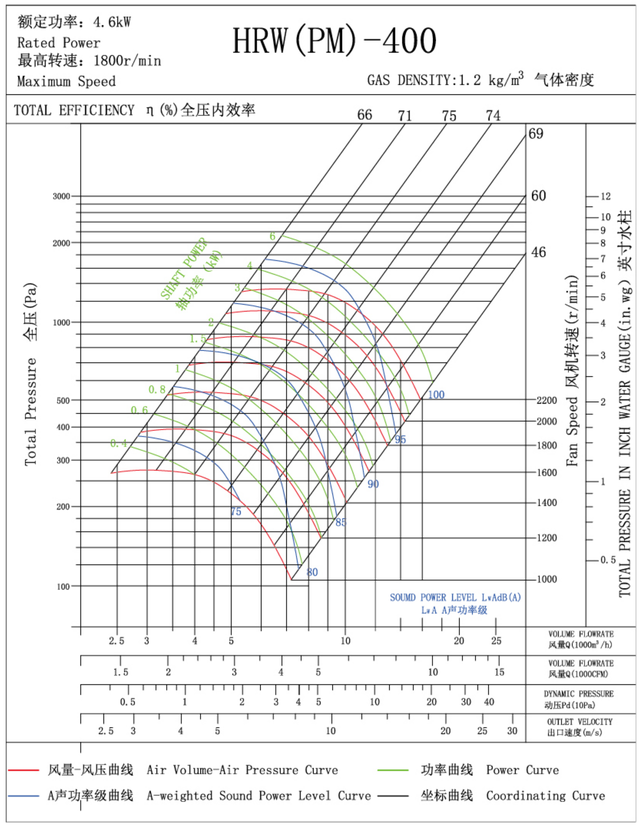



## 外形及安装尺寸 Overall Size

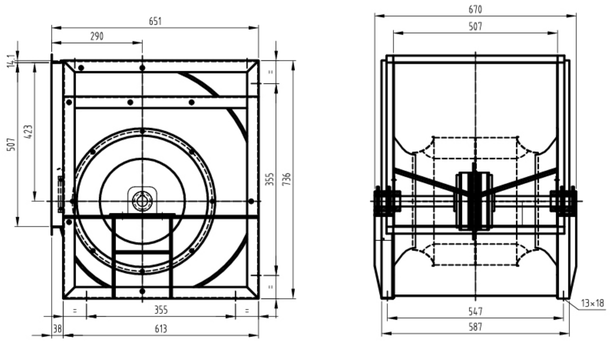


## HRW（PM）-400

### 技术参数 Technical Data




### 外形及安装尺寸 Overall Size

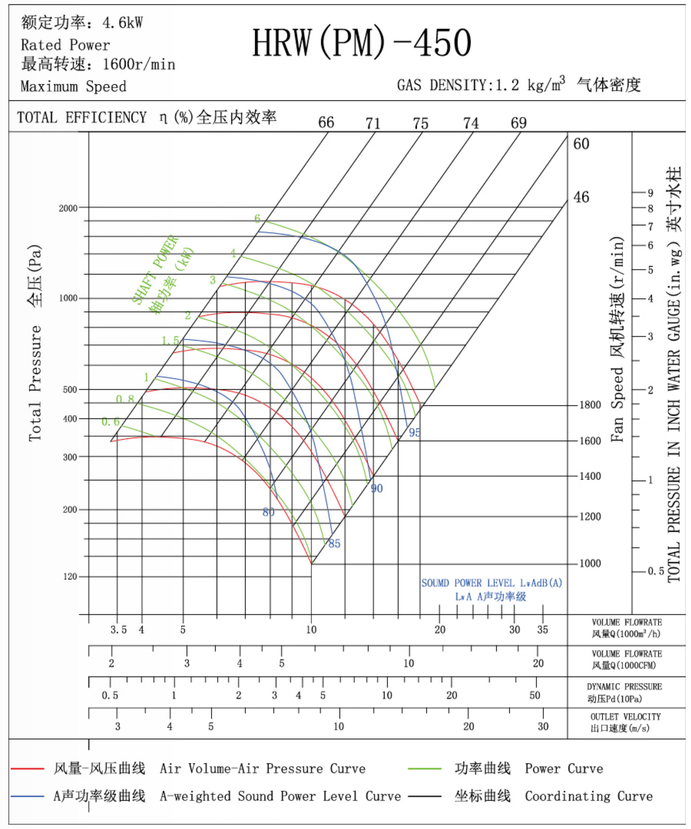




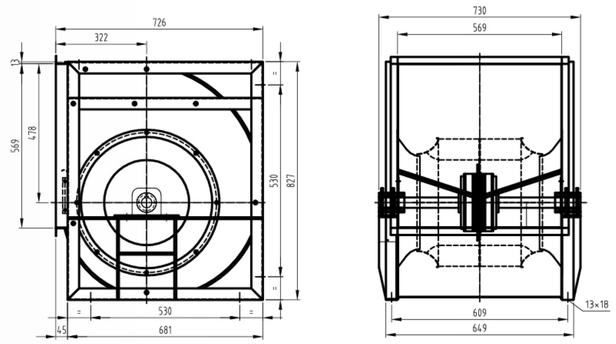



## HRW（PM）-450

### 技术参数 Technical Data

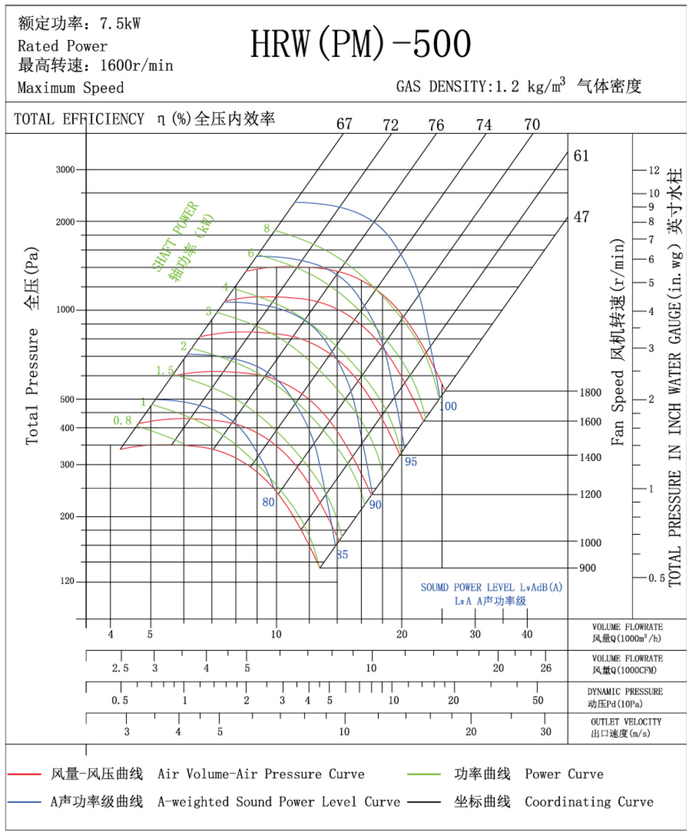



### 外形及安装尺寸 Overall Size

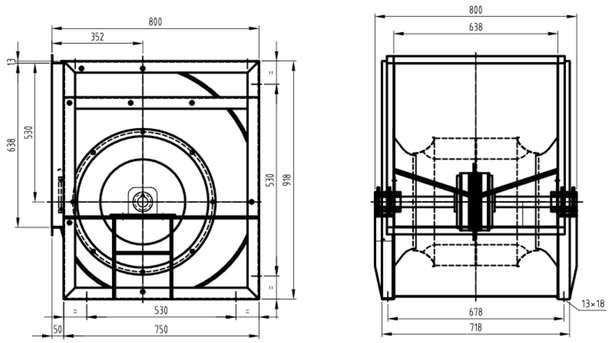


## HRW（PM）-500

### 技术参数 Technical Data




### 外形及安装尺寸 Overall Size

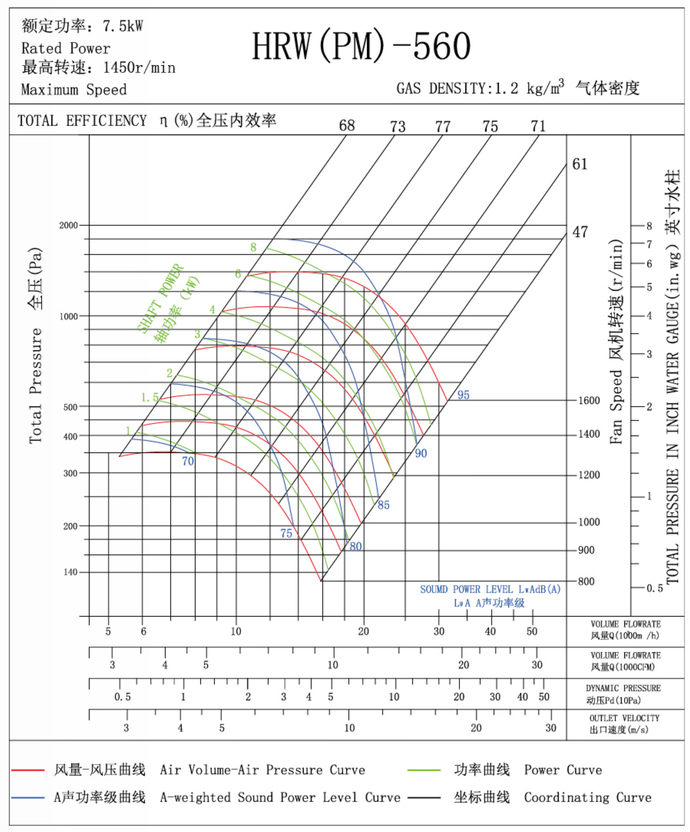




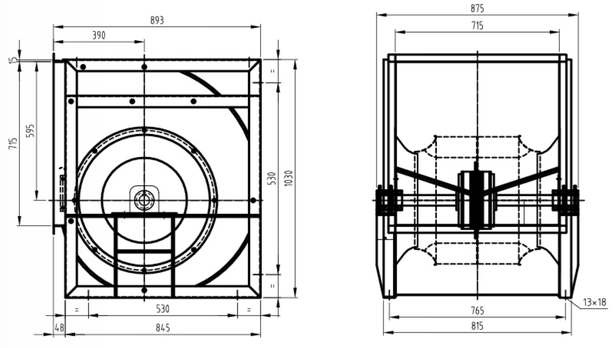



## HRW（PM）-560

### 技术参数 Technical Data

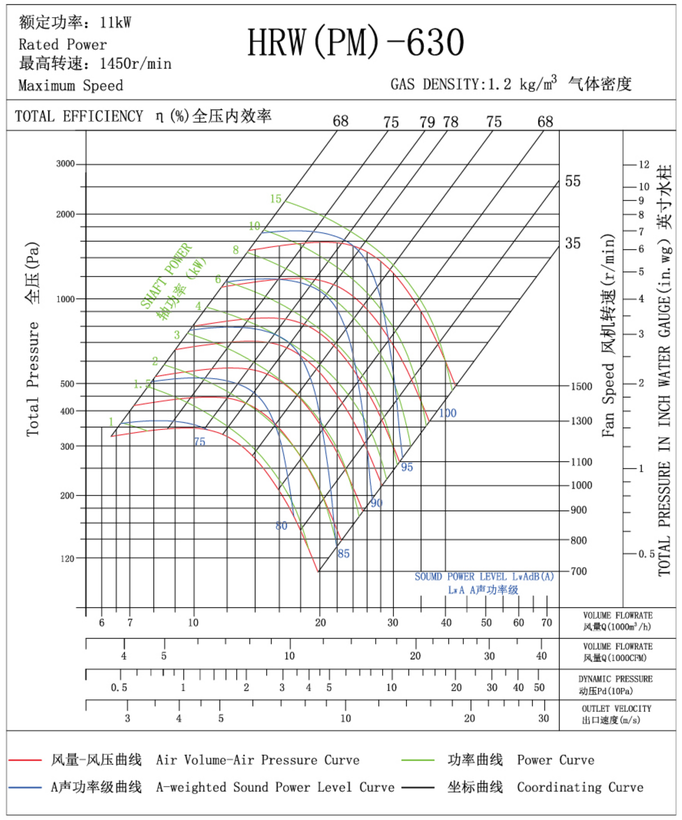



### 外形及安装尺寸 Overall Size

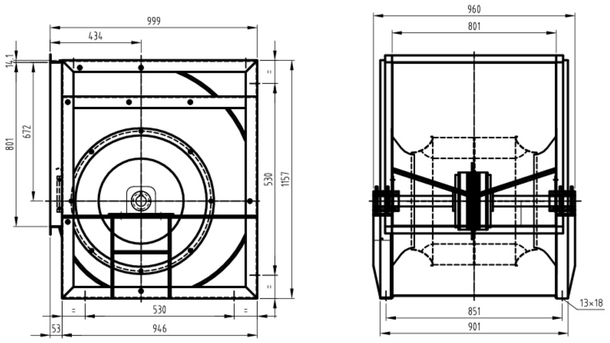


## HRW（PM）-630

### 技术参数 Technical Data




### 外形及安装尺寸 Overall Size

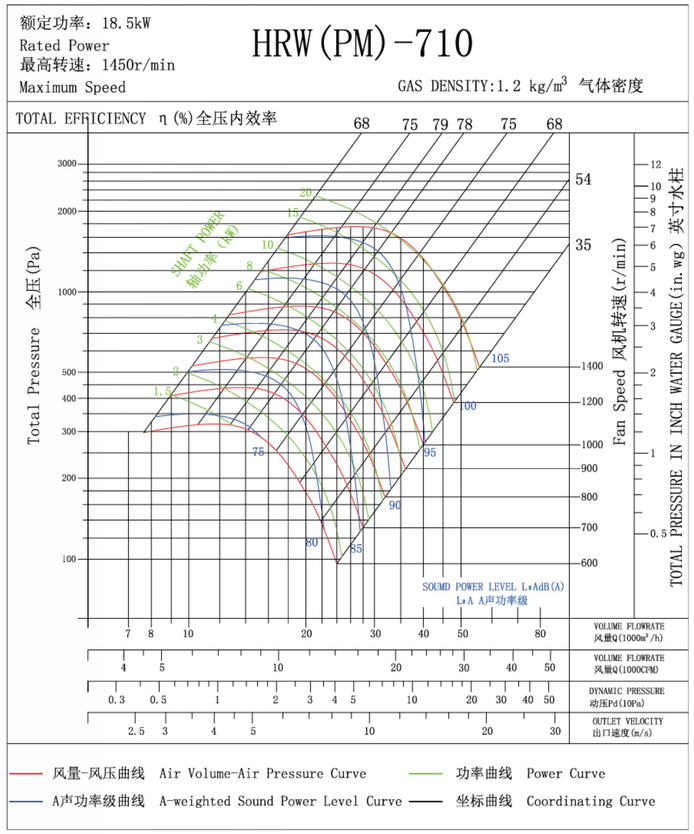




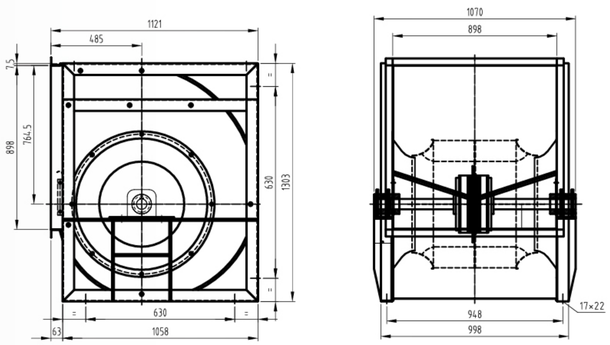



## HRW（PM）-710

### 技术参数 Technical Data

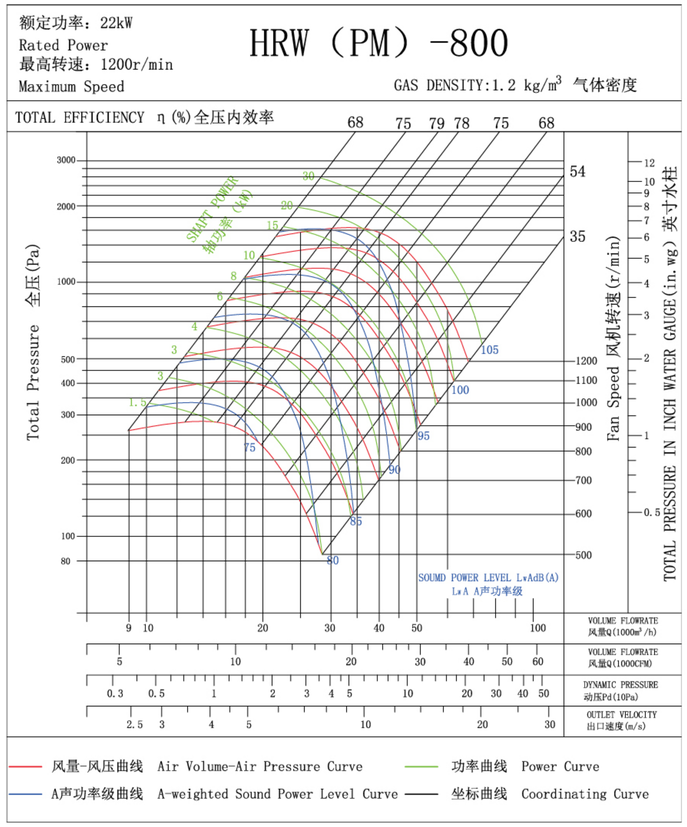



### 外形及安装尺寸 Overall Size

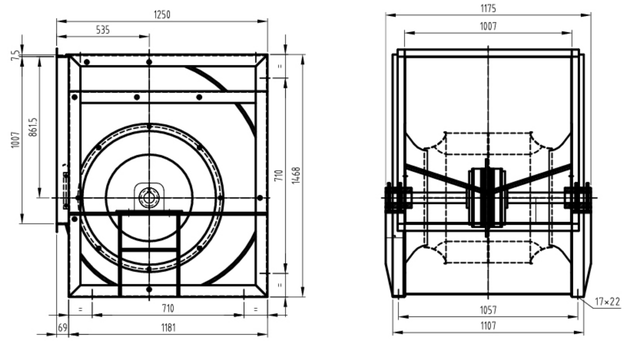


## HRW（PM）-800

### 技术参数 Technical Data




### 外形及安装尺寸 Overall Size

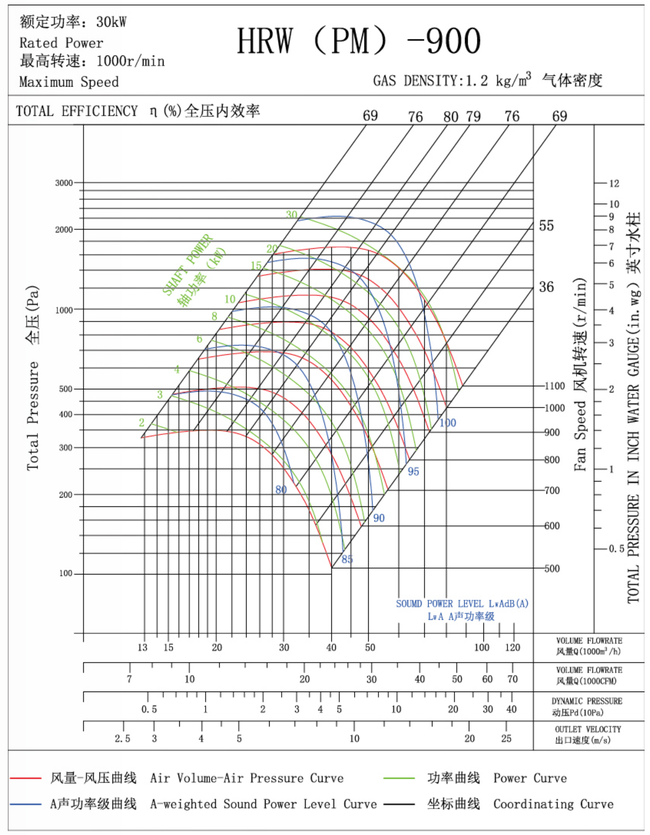







## HRW（PM）-900

### 技术参数 Technical Data




### 外形及安装尺寸 Overall Size

