

Blower Technical Parameter Table

Model	Outlet pressure (kPa)									Power	Weight	Diameter	Dimensions (mm)		
	30	40	50	60	70	80	90	100	120	(kW)	(kg)	International PN1.0MPa	Lenght	Width	Height
	Air flow (m³/min)														
HTB-15***A	24	17	14	13	10	/	/	/	/	15	300	DN150	1300	800	1230
HTB-22***A	36	29	24	21	18	16	/	/	/	22	310				
HTB-30***A	49	39	33	28	25	22	/	/	/	30	330				
HTB-37***A	62	48	41	35	31	28	25	22	19	37	350				
HTB-45***A	78	62	51	45	39	34	32	28	23	45	550	DN200	1500	1100	1580
HTB-55***A	94	76	60	54	47	40	38	34	28	55	630				
HTB-75***A	124	95	76	69	63	55	49	45	37	75	650				
HTB-90***A	157	120	95	86	79	69	62	56	46	90	830	DN300	1500	1100	1580
HTB-110***A	190	150	115	104	93	85	72	67	57	110	880				
HTB-132***A	221	170	136	122	108	99	86	79	67	132	930				
HTB-150***A	252	190	156	140	122	112	99	90	77	150	1450	DN300	1800	1500	2080
HTB-180***A	314	230	190	171	155	136	124	112	91	180	1720				
HTB-225***A	380	290	228	208	183	164	145	132	111	225	2140	DN400	2300	1700	2140
HTB-300***A	504	378	312	276	243	220	198	181	150	300	2320				

Note:

1. Test conditions: Standard atmospheric pressure, humidity 65%, air temperature 20°C, air density 1.20 kg/m³ (tolerance: ±5%).

2. In the model number, “\*\*\*” represents the outlet pressure in kPa.

3. Our company reserves the right to modify the design specifications, and the final parameters shall be subject to actual conditions.

Oxygen Booster Technical Parameter Table

Model	Outlet pressure (kPa)			Power	Weight	Diameter	Dimensions (mm)		
	15	25	35	(kW)	(kg)	International PN1.0MPa	Lenght	Width	Height
	Air flow (m³/min)								
HTB-080**AF	20	16	11	7.5	150	DN125	750	680	700
HTB-110**AF	26	20	14	11	150				
HTB-150**AF	37	29	21	15	190	DN150			
HTB-220**AF	53	41	31	22	190				
HTB-300**AF	74	57	42	30	220	DN200	780	780	950
HTB-370**AF	92	74	54	37	320	DN200	850	1050	1000
HTB-450**AF	112	85	64	45	350				
HTB-550**AF	135	103	78	55	350	DN250			
HTB-750***AF	184	150	105	75	420	DN300	950	1280	1075

Note:

1. Test conditions: Standard atmospheric pressure, humidity 65%, air temperature 20°C, air density 1.20 kg/m³ (tolerance: ±5%).

2. In the model number, “\*\*” represents the outlet pressure in kPa.

3. Our company reserves the right to modify the design specifications, and the final parameters shall be subject to actual conditions.

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Quality Paradigm

Energy saving/High efficiency/Safety

HTB Series  
Air Suspension Centrifugal Blower

## Core technology of HTB air suspension centrifugal blower

### • Air bearings

The fully dynamic pressure air suspension requires no external air source. It relies on the high-speed rotation of the rotor to form a compressed air film between the shaft and the bearing foil, achieving air film lubrication with minimal rotational loss. The bearing structure is simple and reliable, with high load capacity and excellent dynamic characteristics, effectively suppressing rotor vibrations. It has undergone more than 10,000 start-stop tests, demonstrating excellent surface coating durability, making it a truly semi-permanent lifespan bearing.



### • High-efficiency impeller

The three-dimensional flow and backward-curved design are precisely manufactured using a five-axis machining center, achieving a variable efficiency of over 92%. High-strength materials, such as 7075 aluminum, titanium alloy, and 603 stainless steel, are selected as needed. An additional surface coating enhances wear resistance and stability. The product has successfully passed a 115% overspeed test.



### • High-speed permanent magnet motor

The permanent magnet rotor structure maintains high efficiency across the entire operating speed range, achieving over 97% efficiency. The rotation speed exceeds 25,000 rpm. It features high-frequency speed regulation and anti-reverse startup. The motor adopts coaxial air cooling, requiring no external cooling fan, ensuring simplicity and reliability.

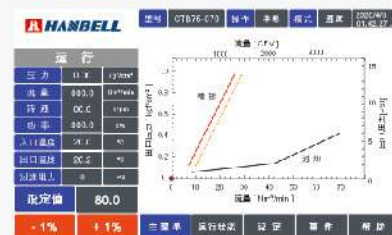


### • Integrated intelligent control system

The PLC-based full-machine control system features a touch screen interface, providing simple and user-friendly interaction. It enables multi-target control of speed, airflow, pressure, and power.

An integrated blow-off device ensures no-load startup and safe shutdown in case of a failure. The system implements anti-surge protection by accurately detecting surge conditions and automatically shutting down before a surge failure occurs.

It supports remote IoT connectivity, enabling various control modes, including remote and local operation, as well as centralized and standalone control.



## Main pipe installation

### • Blower installation guide

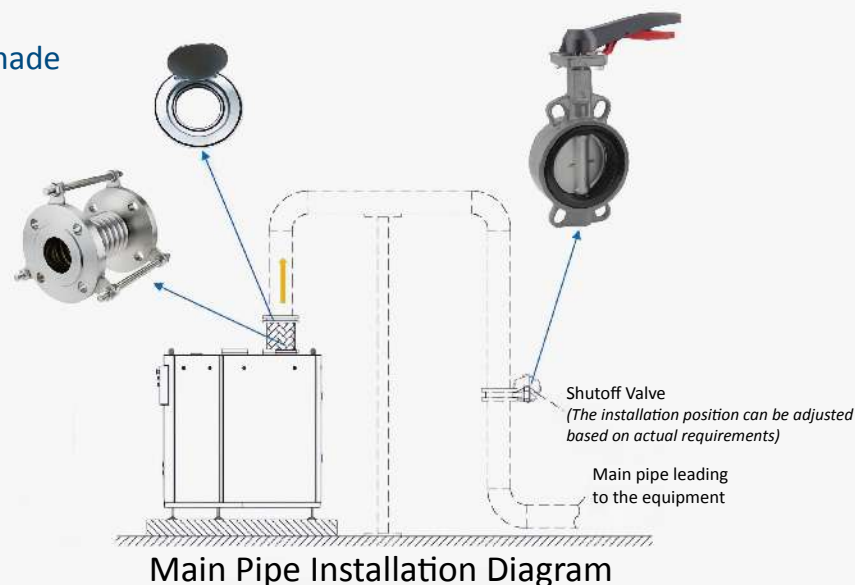
1. The blower's gas delivery path is generally made of carbon steel or stainless steel.

2. The pipeline should be equipped with

- ① Check Valve: Prevents gas backflow, which may cause the blower to reverse. The check valve must be installed with its opening direction aligned with the airflow direction.
- ② Flexible Joint: Facilitates the installation and disassembly of the entire unit.
- ③ National Standard Flange with Matching Fasteners.

3. Customers can choose optional accessories.

- ① Manual Shutoff Valve.
- ② Electric Butterfly Valve.
- ③ Outlet Muffler.



## HTB Air suspension centrifugal blower product features

- **Air Suspension Bearings** – Contact-free, oil-free, and maintenance-free.
- **High-Speed Motor** – Operates at speeds above 20,000 rpm.
- **High Power Density and Compact Design** – Space-efficient with superior performance.
- **Centrifugal Impeller With Three-Dimensional Flow Design** – Ensures high aerodynamic efficiency.
- **Self-Cooling Design** – Air-cooled structure eliminates the need for external cooling.
- **Stable and Quiet Operation** – Low vibration and noise levels.
- **Long Service Life** – Designed for over 20 years of operation.
- **Intelligent Control** – Supports local, remote, and networked operation.
- **Easy Maintenance** – Requires only filter replacement and filter cotton cleaning.



Centrifugal Main Unit

## Application Industries (Industrial Grade):



## Application Industries (Agricultural Grade):

