



# SeAH TURBO BLOWER

Eco-friendly, High Efficiency Turbo Blower

## SeAH Engineering


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هواسازان تبریز  
تولید کمپرسور و تجهیزات هوای فشرده

SeAH Engineering



**Being a industry leader,  
High efficiency turbo blower for green future**

The best technology for turbo blower in the same field achieved by long-term, constant research and development realizes turbo blowers meeting the needs of low-energy green future.

## PROVEN TECHNOLOGY IN A LEADING DESIGN

### The most cost effective technology for driving down your energy

- Optimally integrated core technologies for air foil bearings, motors, impellers, etc. provides stability and reliability for operation.
- Optimized motor speed control technology using inverter(VFD) makes it possible to minimize energy consumption and maximize customer's productivity.

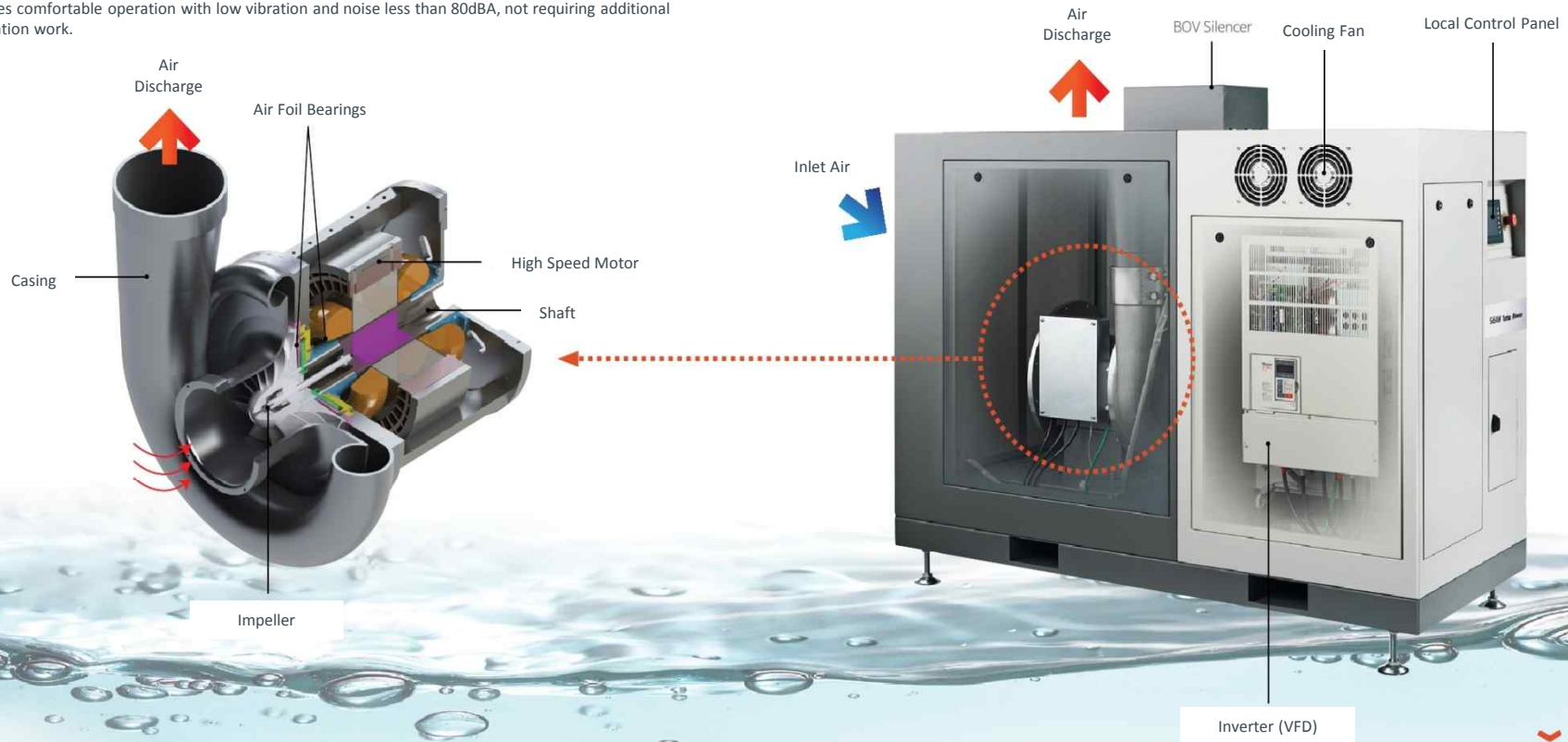
### Providing all-in-one packages of what you want

- Realizes single unit package integrating all functions such as PLC, VFD, etc.
- State-of-the-art customized design provides power and time saving effects without auxiliaries.

### Keeping working environment with your peace of mind

- 100% oil less operation makes turbo blowers free from productivity loss and maintenance expense due to oil permeation.
- Provides comfortable operation with low vibration and noise less than 80dBA, not requiring additional foundation work.

# THE FULL FEATURE OF THE TURBO BLOWER



# THE PERFECT HARMONY IN EVERY TECHNOLOGY DETAIL

High efficiency and eco-friendly turbo blowers by perfect combination between stability and efficiency.



## UNIQUE AIR FOIL BEARINGS

- Adoption of hydrodynamic design to use air film between shaft and bearings made by high speed rotors
- Adoption of non-contact bearings without friction with shafts during rotation maximizes energy efficiency
- 100% oil less & air lubricated operation

## ADVANCED CONTROL AND MONITORING

- Providing a user-friendly interface with graphical display
- Realization of Plug & Play solution enables quick installation with minimum preparation
- Application of PLC control provides operation more versatile and flexible to environmental changes
- Provides various operating modes and communication protocol



## HIGHEST DURABILITY, HIGH SPEED MOTOR

- Patented self-cooling system provides high efficiency over whole working range during high speed rotation (Pat. No. : 10-0481600)
- Featuring a simple design, it also provides excellent durability in extreme conditions
- Adoption of high speed induction or permanent magnet synchronous motors.

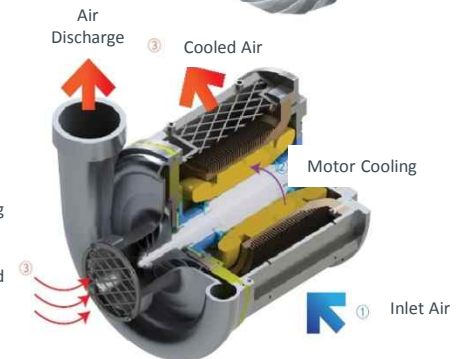
## HIGH EFFICIENT MILLED IMPELLER

- Adoption of high efficiency backward lean type impellers
- Optimized assembly technology between essential components provides high efficiency and wide range of operation
- 5-axis CNC machining provides greatly precise design shape and superb durability



## SIMPLE AND POWERFUL COOLING SYSTEM

- Adoption of simple and high efficiency cooling system without auxiliaries (air / liquid cooling type)
- Self-cooling system by inlet air for motor and electrical parts



## MAXIMIZE YOUR BENEFITS

- Realization of low-noise system less than 80dBA by standardization of enclosures, which enables installation in residential area
- Cost reduction by space saving and easy installation
- 100% oil free system provides comfortable operation

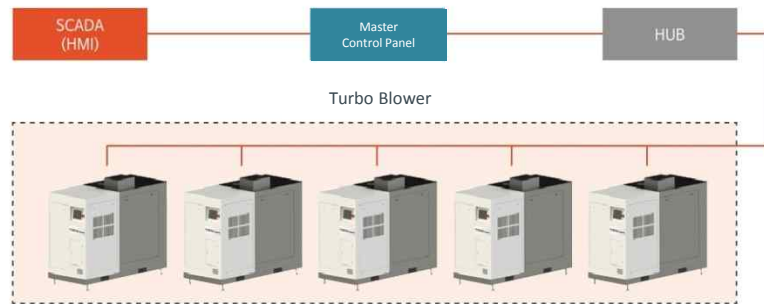




# FIND OUT HOW MUCH YOU CAN SAVE

## PROVIDING TOTAL MANAGEMENT SOLUTION

- Realization of optimized operation solution by flexible controls.
- Computerized intelligent group control and monitoring system provide stability for operation.



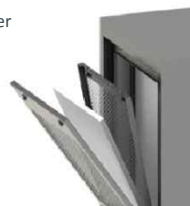
## EASY MAINTENANCE WITH REASONABLE COST

- Easy replacement process of components maximizes customer's convenience.
- Simple and easy maintenance process provides high efficiency operation by reducing maintenance expenses and hours.

Coolant



Air Filter

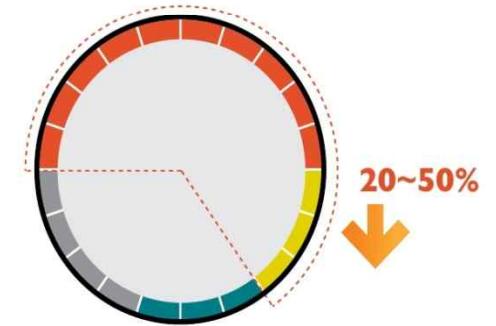


※ Only applicable to high capacity models

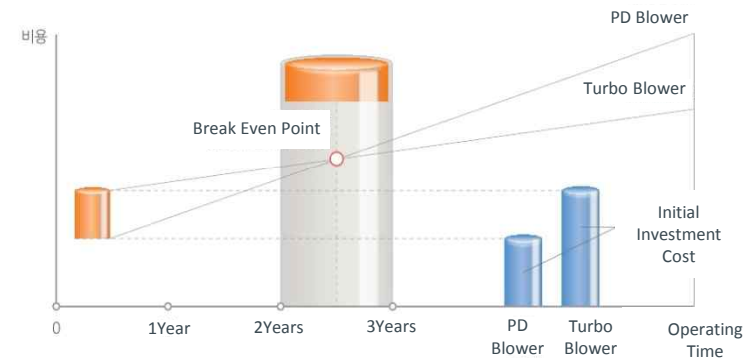
## ENERGY SAVINGS OF UP TO 20-50%

Turbo blowers secure customer's profits by greatly reducing operation expenses compared to conventional models. Excellent energy saving technologies for operation enable customer's investment recovery within two or three years.

- Adoption of VFD
- Adjusting motor speeds precisely according to air demand
- Maximum 20~50% savings on energy costs for operation
- Focused on energy cost reduction and maximization of customer's profits

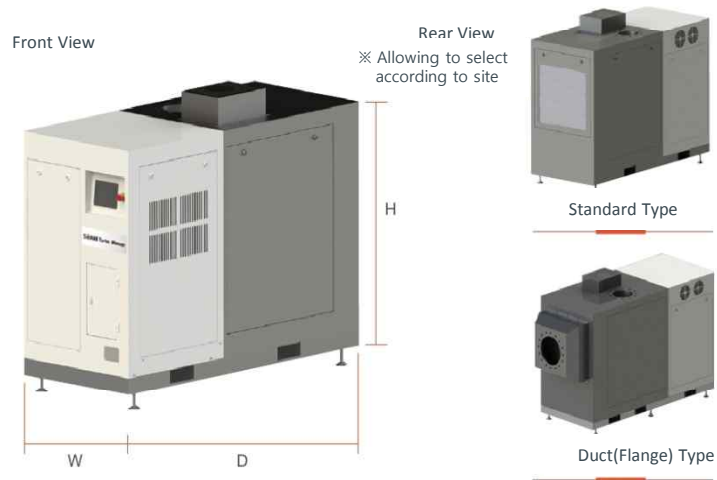


Life Cycle Cost of a PD blower  
Energy savings with turbo blower  
Maintenance  
Investment



Economical effects compared to PD Blower

# TECHNICAL DATA



## MODEL SELECTION TABLE

MODEL	GT5	GT10	NGT20	NGT30	NGT50	NGT75	NGT100
Suction Flow (m <sup>3</sup> /min)	3.5~4.6	6.5~8.0	12~19	18~26	16~44	22~62	28~71
Dis. Pressure (kgf/cm <sup>2</sup> G)	0.3~0.6		0.3~0.8		0.3~1.5		
Dimension	W (mm)	600	750	750	750	850	850
	D (mm)	850	1580	1650	1650	2000	2000
	H (mm)	900	1150	1150	1150	1370	1370

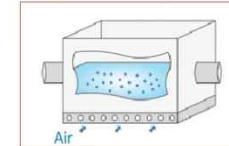
MODEL	NGT125	NGT150	NGT200	NGT250	NGT300	NGT350	NGT400
Suction Flow (m <sup>3</sup> /min)	46~98	63~120	86~162	90~193	130~255	144~266	172~324
Dis. Pressure (kgf/cm <sup>2</sup> G)	0.3~1.0						
Dimension	W (mm)	950	950	950	1300	1600	1600
	D (mm)	2250	1950	2050	2000	2000	2100
	H (mm)	1500	1550	1550	1765	1765	1810

- ※ Operation Conditions : 20°C, 1.033kgf/cm<sup>2</sup>, 65%RH
- ※ Tolerance : ±5%
- ※ As the above data may be revised, as the case may be, without any notification, consultation with manufacturer is required.
- ※ Contact manufacturers for other special specifications such as Outdoor type, Separate type, Explosion proof, High Pressure Compressors, etc.

# APPLICATION

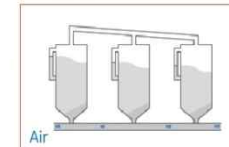
## WATER AND WASTEWATER TREATMENT

- Supplies compressed air to water treatment facilities such as waste water disposal plant, filtration plant, excreta treatment facilities, etc. for wastewater treatment microorganism
- Increases the active oxygen with lower discharge temperature and maximize productivity



## PNEUMATIC CONVEYING

- Conveys powder materials such as cement, pellet, etc. by feeding compressed air to transfer line
- Use an induction type motor in poor environment with impurities (Iron content)



## OTHERS

- Utilized for various purposes such as dry, dehumidification, burner, desulfurization, etc. in industrial sites
- Drying the goods by compressed air without the heating device and raise the production efficiency

