Eco-friendly, High Efficiency Turbo Blower

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

The best turbo technology achieved by long-term, constant research and development realizes turbo blower corresponding to the needs of low-energy green future.
THE FULL FEATURE OF THE TURBO BLOWER

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. provide stability and reliability for operation.
• Optimized motor speed control technology using a variable frequency drive (VFD) makes it possible to maximize productivity with minimal energy consumption.

Providing all-in-one packages of what you want
• The turbo blower realizes single unit package integrating all functions such as programmable logic controller (PLC), variable frequency drive (VFD), etc.
• The state-of-the-art design ensures energy and time saving effects without auxiliaries.

Keeping working environment with your peace of mind
• 100% Oil-less system makes turbo blower free from the productivity losses and maintenance expenses due to oil permeation.
• Provides comfortable operation with low package vibration and noise less than 80 dB(A), not requiring additional foundation work.
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
- Non-contact bearings without friction with shafts during rotation maximizes energy efficiency
- 100% Oil-less & air lubricated system

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
- Supplied with high speed induction or permanent magnet synchronous motors

HIGH EFFICIENT MILLED IMPELLER
- Backward leaning type impellers allow for high efficiency
- Optimized assembly technology increases efficiency and turndown range
- 5-Axis CNC machining provides greatly precise design shape and superb durability

SIMPLE AND POWERFUL COOLING SYSTEM
- Simple and high efficiency cooling system without auxiliaries (air / liquid cooling type)
- Self-cooling system by inlet air for motor and electrical parts

ADVANCED CONTROL AND MONITORING
- User-friendly interface with graphical display
- Realization of Plug & Play solution enables quick installation with minimum preparation
- Programmable Logic Controller(PLC) provides more versatile and flexible operation against environmental changes
- Built-in various control modes and communications protocol

MAXIMIZE YOUR BENEFITS
- Realization of low-noise system less than 80dB(A) with enclosure enables installation in residential area
- Cost reduction by space saving and easy installation
- 100% Oil-less system provides comfortable operation

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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.

ENERGY SAVINGS OF UP TO 20~50%

A turbo blower ensures customer’s profit by greatly reducing operation costs compared to conventional blowers. These excellent energy saving technologies enable 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 vs Energy savings with turbo blower](chart)

FIND OUT HOW MUCH YOU CAN SAVE

<table>
<thead>
<tr>
<th>Year</th>
<th>Cost</th>
<th>PD Blower</th>
<th>Turbo Blower</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td>Initial Investment</td>
<td>Initial Investment</td>
</tr>
<tr>
<td>1 year</td>
<td></td>
<td>Operating Cost</td>
<td>Operating Cost</td>
</tr>
<tr>
<td>2 years</td>
<td></td>
<td>Break Even Point</td>
<td>Break Even Point</td>
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<tr>
<td>3 years</td>
<td></td>
<td>Turbo Blower</td>
<td>Turbo Blower</td>
</tr>
</tbody>
</table>

| Economical effects compared to PD Blower |

※ Only applicable to high capacity models
TECHNICAL DATA

APPLICATION

WATER AND WASTEWATER TREATMENT
• Supplies compressed air to water treatment facilities for wastewater treatment microorganism cultivation
• Increases the active oxygen with lower discharge temperature and maximizes productivity

PNEUMATIC CONVEYING
• Conveys powder materials such as cement, pellet, etc. by feeding compressed air to transfer line
• Use a 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
• Increase in productivity by drying products using compressed air without heating equipment

MODEL SELECTION TABLE

<table>
<thead>
<tr>
<th>MODEL</th>
<th>G75</th>
<th>GT10</th>
<th>GT20</th>
<th>GT250</th>
<th>GT300</th>
<th>GT350</th>
<th>GT400</th>
<th>GT500</th>
<th>GT600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suction Flow (m³/min)</td>
<td>3.5~4.4</td>
<td>6.5~8.0</td>
<td>12.0~19.0</td>
<td>18.0~26.0</td>
<td>16.0~24.0</td>
<td>22.0~42.0</td>
<td>28.0~71.0</td>
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<tr>
<td>Dis. Pressure (kgf/cm²)</td>
<td>0.3~0.6</td>
<td>0.3~0.8</td>
<td>0.5~1.5</td>
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<tr>
<td>Dimension</td>
<td>W (mm)</td>
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<td>750</td>
<td>750</td>
<td>850</td>
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<tr>
<td></td>
<td>H (mm)</td>
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<td>1150</td>
<td>1370</td>
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<table>
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<tr>
<th>MODEL</th>
<th>GT250</th>
<th>GT300</th>
<th>GT350</th>
<th>GT400</th>
<th>GT500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suction Flow (m³/min)</td>
<td>65.0~98.0</td>
<td>83.0~120.0</td>
<td>110.0~162.0</td>
<td>130.0~215.0</td>
<td>145.0~294.0</td>
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<tr>
<td>Dis. Pressure (kgf/cm²)</td>
<td>0.3~1.0</td>
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<tr>
<td>Dimension</td>
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<td>1500</td>
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<td>H (mm)</td>
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<td>1900</td>
<td>1900</td>
<td>2400</td>
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</tbody>
</table>

※ Operation Conditions : 20°C, 1.033kgf/cm², 65%RH
※ Tolerance : ±5%
※ As the above data may be revised and regarding special specifications, consult manufacturer.