NEW ENERGY SAVING MODEL
ROTARY ROOTS BLOWER (AIR APPLICATION)

TBS energy saving BLOWER

Maximum more than 30%
Average more than 10%
Compared with SSR series
Newly Developed Blower Model Most Appropriate to Water Treatment & Air Conveying Application

What are outstanding features of TBS?

1. Thorough Development and Design for the best energy saving!
   Comparison with SSR Series: Saving more than 30% as maximum, 10% as average in each model.
   As Fig. 1 shows, rotary blower transfer the gas by progressing the cavities between casing and impeller. There is little backflow of gas from discharge to suction end because of pressure stall. In TBS model, to prevent this backflow, the clearance between casing and impellers is minimized to secure the best volumetric efficiency. And the widest cavities by specially designed impeller, high rotating speed, and energy-saving V-belt achieve the better energy saving.

2. Compact Design!
   Specially designed impellers and high rotating speed of TBS achieve more than 120% of maximum capacity compared with our previous model, SSR, with same bore. We have much possibility to supply one more smaller model with newly designed suction silencer shortened its height to downsize the total blower package.

3. Designed for Lower Noise and Vibration!
   Not only newly designed 3 lobe impellers, but also mechanical function of the new casing to reduce the pulsation is refined from the previous, shall reduce the pulsation pressure while compressing gas. Moreover, new designed suction silencer reduce the pneumatic noise efficiently. Into the bargain, stiffer structure of blower bareshaft lead to further lower noise and vibration!

Are there any other differences between TBS and SSR?

4. Compatibility for Replacement and Easy Maintenance!
   In case of the same bore as previous model SSR, the foundation works and modification of piping will not be required for the replacement from SSR to TBS. Also, for your easy maintenance, bearing lubricated by grease at pulley end is installed. No check, complement, and change of the grease will be required. Also, for easy replacement of the air filter, there are lifting handles on the filter cover in detail, please refer to Fig. 2.

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Fig. 1

Fig. 2

Height 70 ~ 80% from previous Model

Lifting handles on filter cover.

Grease lub bearing at pulley end

Name plate For easy check

Energy-saving V-belt

IE3 High Efficiency Motor

More than 120% of max. capacity compared with SSR, our previous model
## Performance Table

<table>
<thead>
<tr>
<th>Type</th>
<th>Diameter</th>
<th>Rotational Speed (min⁻¹)</th>
<th>Suction Volume Qs (m³/min) for each discharge pressure and required power La (kW)</th>
<th>10kPa</th>
<th>15kPa</th>
<th>20kPa</th>
<th>25kPa</th>
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## Outline Drawings (Standard)

**Type**

- TBS-50
- TBS-65
- TBS-80
- TBS-100

**Diameter**

- 50A
- 65A
- 80A
- 100A

**Weight (kg)**

- 84
- 113
- 170
- 209

### Notes
1. Unit of dimension is millimeter (mm).
2. The weight of motor is excluded in the above value.
3. Dimension E is referential maximum value based on our standard motor.

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For Inquiry of TBS series Blowers

| Company Name |  |
| Address |  |
|  |  |
| TEL |  |
| FAX |  |
| E-mail |  |
| Application |  |
| Location | Indoor · Outdoor |
| Q’ty | units |
| Handling Gas | Air |
| Suction Temp | ℃ |

Suction Capacity: \( m^3/\text{min} \left(20^\circ \text{C} / \text{ATM}\right) \) / In case of operation by VVVF, please indicate the operational range.

Suction Pressure: \( \text{kPaG} \)  Discharge Pressure: \( \text{kPaG} \)

Motor:
- Indoor / Outdoor ・ TEFC / Exe / Exd / Others ( )
- Supplied by Taiko / Yourselves, or using existing motor at site
- Your preferable vendor: Yes ( ) / TAIKO STANDARD

Power Supply: \( V \times 3 \text{ Ph} \times Hz \) Motor start: DOL / Star Delta / VVVF

Painting:
- Standard: Munsell 7.5BG4/1.5
- Requirement (if you have) ( )

Request for Accessories ・ Spare Parts

Standard Accessory: Common Base, V-belt cover, V-pulley, V-belt, Suction Silencer (with filter), Safe Valve, Pressure Gauge

Remarks (If you have any other requirement for us)