TRC Series
DIRECT DRIVE REVERSIBLE VANE AXIAL FAN
**Feature**
For commercial and industrial application where large volume of air is required at moderate to high pressure in both directions (reversible flow). Volume coefficient ranged from 0.2 to 0.8 and pressure coefficient ranged from 0.2 to 0.4.

**Construction**
Double flanged casing is produced in mild steel or galvanized steel. The reversible impeller blades are made of Aluminum Alloy.

**Finish**
Zinc rich primer and polyester powder coating or galvanized finishing are available for all mild steel parts.

**Operating Temperature**
Normal Ventilation: -20°C to +55°C
High Temperature Application: available up to 400°C/2Hrs.

**Motors**
 Totally Enclosed Class 'F' or 'H', with a min. IP55 protection are fitted as standard. Motors 3.0kW and above are star/delta starting. Motor of other specification are available upon request.

**Truly Reversible**
Reversibility of 95~100% air flow from impeller to motor is fitted as standard. Air flow from motor to impeller can be supplied upon request.

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**Nomenclature**

**TRC 1250 / RB22 / H / 12-7V / 15° / N20**

- **Fan Design**— N=Normal mode e.g. N20, N40, N80 etc. (Numerical value represents fan operating temperature)
- **Blade Angle**
- **Blade Number** – Vane number
- **Hub Ratio**
- **Blade Type**
- **Nominal Fan Diameter**
- **Fan Model**
### Model Specifications

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<tr>
<th>Model</th>
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<th>B</th>
<th>C</th>
<th>D</th>
<th>N°</th>
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<th>Weight* (kg)</th>
<th>Max. Motor Frame Size**</th>
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* Weight without motor.

** Please consult KRUGER for motor frame size other than specified.

All dimensions are in mm.
Example of Selection

**TRC1250 / RB22 / H / 12-7V (Forward)**

950 rpm - 50 Hz

- **Air Volume** $Q = 11.68 \text{ m}^3/\text{s}$
- **Outlet Velocity** $V_{\text{out}} = 9.52 \text{ m/s}$
- **Total Pressure** $P_t = 323 \text{ Pa}$
- **Fan Speed** $N = 950 \text{ rpm}$
- **Absorbed Power** $H = 5.60 \text{ kW}$
- **Total Efficiency** $\eta = 67.34 \%$
- **Sound Power Level** $L_{wA} = 100 \text{ dB(A)}$
Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.
TRC1250 / RB22 / H / 12-7V (Forward)
950 rpm - 50 Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

Air Density : 1.2 kg/m³
Hub diameter 560 mm.
Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

- Air Density: 1.2 kg/m³
- Hub diameter: 560 mm.
- LwA in dB(A)
Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet $L_w(A)$ sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.
TRC1250 / RB22 / H / 12-7V (Reverse)
1450 rpm - 50 Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.
TRC1250 / RB22 / H / 12-7V (Reverse)
950 rpm - 50 Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

Air Density : 1.2 kg/m³
Hub diameter 560 mm.

Total Pressure (Pa)
Absorbed Power (kW)
Total Efficiency (%)
**TRC1250 / RB22 / H / 12-7V (Reverse)**

725 rpm - 50 Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

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**Air Density**: 1.2 kg/m³

**Hub diameter**: 560 mm.

**FEG 67**

**LwA in dB(A)**

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**Total Pressure (Pa)**

**Absorbed Power (kW)**

**Total Efficiency (%)**

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**Q (m³/s)**

**Vout (m/s)**

**Air Density : 1.2 kg/m³**

**Hub diameter 560 mm.**

**FEG 67**

**LwA in dB(A)**

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TRC1250 / RB22 / H / 12-7V (Reverse)
1150 rpm - 60 Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi(A) sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

Air Density : 1.2 kg/m³
Hub diameter 560 mm.

FEG 67
LwA in dB(A)
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.
Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA (dB(A)) sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

TRC1400 / RB25 / H / 12-7V (Forward)
950 rpm - 50 Hz

Air Density : 1.2 kg/m³
Hub diameter 630 mm.
TRC1400 / RB25 / H / 12-7V (Forward)
725 rpm - 50 Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

Air Density : 1.2 kg/m³
Hub diameter 630 mm.

Total Pressure (Pa)

Absorbed Power (kW)

Total Efficiency (%)
TRC1400 / RB25 / H / 12-7V (Forward)
1150 rpm - 60 Hz

Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.
TRC1400 / RB25 / H / 12-7V (Forward)
875 rpm - 60 Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

Air Density: 1.2 kg/m³
Hub diameter 630 mm.
TRC1400 / RB25 / H / 12-7V (Reverse)
1450 rpm - 50 Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

Air Density : 1.2 kg/m³
Hub diameter 630 mm.

LwA in dB(A)
FEG 67
TRC1400 / RB25 / H / 12-7V (Reverse)
950 rpm - 50 Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwa(A) sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet $L_{wA}(A)$ sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

Air Density : 1.2 kg/m$^3$

Hub diameter 630 mm.

L$wA$ in dB(A)
TRC1400 / RB25 / H / 12-7V (Reverse)
1150 rpm - 60 Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

Air Density : 1.2 kg/m³
Hub diameter 630 mm.

FEG 67
LwA in dB(A)

Absorbed Power (kW)

Total Efficiency (%)
TRC1400 / RB25 / H / 12-7V (Reverse)
875 rpm - 60 Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.
TRC1600 / RB28 / H / 12-7V (Forward)
950 rpm - 50 Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.
TRC1600 / RB28 / H / 12-7V (Forward)
725 rpm - 50 Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA in dB(A) sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

Air Density : 1.2 kg/m³
Hub diameter 710 mm.
TRC1600 / RB28 / H / 12-7V (Reverse)
725 rpm - 50 Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.
TRC1600 / RB28 / H / 12-7V (Reverse)
1150 rpm - 60 Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

Air Density: 1.2 kg/m³
Hub diameter 710 mm.
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.
**TRC1800 / RB31 / H / 12-7V (Forward)**

950 rpm - 50 Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwIA sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

### Performance Data

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<tr>
<th>Q (m³/s)</th>
<th>Total Pressure (Pa)</th>
<th>Velocity Pressure (Pa)</th>
<th>Total Efficiency (%)</th>
<th>Absorbed Power (kW)</th>
<th>Air Density</th>
<th>Hub Diameter</th>
</tr>
</thead>
</table>

### Graphs

- **Total Pressure (Pa) vs. Q (m³/s)**
- **Velocity Pressure (Pa) vs. Q (m³/s)**
- **Absorbed Power (kW) vs. Q (m³/s)**
- **Total Efficiency (%) vs. Q (m³/s)**

- **LwA in dB(A)**
- **FEG 71**

**Air Density**: 1.2 kg/m³

**Hub diameter**: 800 mm.
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.
TRC1800 / RB31 / H / 12-7V (Forward)
875 rpm - 60 Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.
TRC1800 / RB31 / H / 12-7V (Reverse)
950 rpm - 50 Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

Air Density : 1.2 kg/m³
Hub diameter 800 mm.

- FEG 67
- LwA in dB(A)
Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

Air Density : 1.2 kg/m³
Hub diameter 800 mm.

LwA in dB(A)

FEG 67

Q (m³/s)

Total Pressure (Pa)

Total Efficiency (%)

Absorbed Power (kW)

Q (m³/s)

Vout (m/s)

Air Density : 1.2 kg/m³
Hub diameter 800 mm.
TRC1800 / RB31 / H / 12-7V (Reverse)
1150 rpm - 60 Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

Air Density : 1.2 kg/m³
Hub diameter 800 mm.

FEG 67
LwA in dB(A)
TRC1800 / RB31 / H / 12-7V (Reverse)
875 rpm - 60 Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

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Hub diameter 800 mm.
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**The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.**

---

**Air Density : 1.2 kg/m³**

**Hub diameter 900 mm.**
Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.
Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

Air Density : 1.2 kg/m³
Hub diameter 900 mm.

FEG 67
LwA in dB(A)
TRC2000 / RB35 / H / 12-7V (Reverse)
725 rpm - 50 Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

Air Density : 1.2 kg/m³
Hub diameter 900 mm.

FEG 67
LwA in dB(A)
TRC2000 / RB35 / H / 12-7V (Reverse)
875 rpm - 60 Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwa(A) sound power levels for installation type D - ducted inlet, ducted outlet. Signatures include the effects of duct end correction.

<table>
<thead>
<tr>
<th>Q (m³/s)</th>
<th>Total Pressure (Pa)</th>
<th>Velocity Pressure (Pa)</th>
<th>Absorbed Power (kW)</th>
<th>Total Efficiency (%)</th>
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Air Density: 1.2 kg/m³
Hub diameter 900 mm.

LwA in dB(A)

Hub diameter 900 mm.
TRC2240 / RB40 / H / 12-7V (Forward)
950 rpm - 50 Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.
**TRC2240 / RB40 / H / 12-7V (Forward)**

725 rpm - 50 Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

Air Density : 1.2 kg/m³

Hub diameter 1000 mm.

FEG 71

LwA in dB(A)
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation type D - ducted inlet, ducted outlet. Ratings include the effects of duct end correction.
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The company is always improving and developing its products, therefore the company reserves the right of making changes to the illustrated products. Certified dimension can be provided upon request.