Kruger Ventilation Industries Asia Co., Ltd.
certifies that the KTF & KTF-R Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 211 and comply with the requirements of the AMCA Certified Ratings Program.
Company Profile

Established in Singapore since 1985, Kruger Ventilation is a full subsidiary company of Soler & Palau Ventilation Group. For decades, Kruger Ventilation continues to be a leading supplier of ventilation solutions for residential, commercial, industrial, and infrastructure applications; the last of which demands a high degree of specialization as in road and metro tunnel ventilation systems. The industry has grown to expect from us to deliver value in unmatched Quality, Delivery, and Service, which are made possible with our engineering expertise, world class manufacturing, and dedication towards innovative excellence. Meeting the needs of our customers is our success.

Kruger tunnel fans are precision engineered for superior performance and trouble-free operation for years to come. Advancements in technology have allowed our tunnel fans, manufactured and assembled in our state-of-the-art ISO 9001 certified factory to achieve world class performances in tunnel ventilation applications. Every Kruger tunnel fan is test run and quality recorded for performance assurance and quality compliance. Full F.A.T. in our AMCA accredited test facility for air performance with third party certification further ensures our fans comply with the most demanding specifications.

With our continuous commitment towards excellence, and our localization of manufacturing capacity, technical support, testing & commissioning, and after-sales service & maintenance across Asia in seventeen locations, our customers’ investments entrusted to us are in good hands, and our promises are always delivered.
Tunnel Axial Fan-KTF & KTF-R Series

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Application

Efficient underground space utilization is vital for sustainable urbanization for cities around the world. Consequently, more capitals are invested in underground infrastructure projects in transportation, storage caverns, utility pipelines, etc. Natural ventilation, although is the most economical, has few practical applications due to its limitations. Therefore it is necessary to mechanically ventilate these spaces properly in order to meet the design criteria for system functionality and safety. The applications of tunnel fans are many and to name a few:

1. Transportation Tunnel
   Road and metro tunnels allow passenger vehicles or trains to go through and under terrains, significantly shorten the commute, making time and energy efficient travel possible. These tunnels also free up valuable land above for other uses. For road tunnel with its high level of contamination from vehicles, and metro tunnel characterized by design complexity for passenger comfort, the tunnel fans must work flawlessly in both cases to provide the necessary air circulation, and most importantly, control smoke pattern in case of fire to ensure the safety of the passengers.

2. Underground Construction
   Underground constructions such as storage caverns and others require tunnel fans during construction as well as for permanent use. The environment demands the fans to efficiently provide fresh air while removing the pollutants, heat, humidity, and purge the environment of dusts from blasting during the construction phase.

3. Utility Tunnel
   Utility tunnels are underground construction designed to carry utility lines including electrical power lines, communications cables and optics, water and sewer pipes, making the urban spaces above less obstructed and more aesthetically pleasing. The tunnel fans are required to removal heat, to provide fresh air for a working environment, and to maintain the proper ambient conditions for system operation.

4. Wind Tunnel
   Wind tunnels are widely used, academically as well as commercially, in aerodynamic research to study the effect of air moving over solid objects such as automobiles, airplanes, building structures, etc. Large tunnel fans are used to create the desired airstream and pattern necessary to conduct the studies.
Fan Features

- **Complete Range**
  - *Uni-directional*
    Range from diameter 1250 to 3150mm, static pressure up to 5000Pa, flow rate up to 450m³/s.
  - *Reversible*
    Range from diameter 1250 to 2240mm, static pressure up to 2500Pa, flow rate up to 160m³/s.

- **High Efficiency**
  Total efficiency as high as 85% for uni-directional fans and 75% for reversible fans.

- **Reliable Performance**
  Kruger tunnel fans are tested in AMCA accredited laboratory and rated in accordance with AMCA 210 for air performance and ISO 1940 and AMCA 204 for balancing quality.

- **Stall-Free Operation**
  Non-stall design or anti-stall ring ensures stall-free operation and protect the ventilation fans and upstream/downstream equipment from potential damage.

- **Truly Reversible**
  Reversibility of 97~100%.

- **Adjustable Blade Angle**
  Blade angle can be adjusted to suit tunnel development/control needs.

- **High Strength Blades**
  Specially designed aluminum alloy homogenous aerofoil blades with high yield strength cater for high pressure applications (up to 5000Pa) and thermal shock in case of fire.

- **Robust & Durable Design**
  Major components are made from high strength steel.

- **Reliable Corrosion Protection**
  Hot dipped galvanization as per ISO 1461 to enable fan operation in almost all adverse environments.

Quality Assurance

- **High Temperature Test**
  Kruger tunnel fan KTF & KTF-R series are tested in accordance with EN 12101-3:2002 and comply with the high temperature resistance requirement for continuous operation at 250°C, 300°C and 400°C for a minimum of 2 hours. Other temperature ratings are available upon request.

  Certified by TUV SUD which is a leading international service organization focusing on consulting, testing, certification and training.

- **Pre-Assembly Examination**
  X-Ray examination for Aluminum alloy blades as per ASTM E-155 and dye penetration (non destructive) tests for welds on fan hubs as per ASME Section V, Art. 6 & 24 (identical with ASTM E-165) are available upon request to ensure the impellers are capable of withstanding the effect or all stress and load during starting, operation and reversal.

- **After-Assembly Examination**
  All Kruger tunnel fans are balanced in accordance with ISO 1940 and AMCA 204 standard and comply with G4.0 or G2.5 requirement.

  Whirl test (over speed test) at 125% of full speed for a minimum of 15 minutes for the impeller is available upon request to ensure the fans are capable of withstanding the effect of all stress and load in case of emergency of malfunction.
**Nomenclature**

**MODEL:** KTF 2000  
Uni-Directional
Nominal Fan Diameter
Kruger Tunnel Axial Fan

**KTF-R 2000**  
Reversible
Nominal Fan Diameter
Kruger Tunnel Axial Fan

**Dimension**

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>Max Motor Frame Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1250</td>
<td>1250</td>
<td>1610</td>
<td>315</td>
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</tr>
<tr>
<td>3150</td>
<td>3150</td>
<td>2610</td>
<td>450</td>
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</table>

Model sizes are nominal diameter  
All Dimensions in mm
Quick Selection Chart - Fan KTF Series (Uni-Directional)

50Hz - 4 POLES - 1450 RPM

50Hz - 6 POLES - 950 RPM

50Hz - 8 POLES - 725 RPM

Please contact Kruger for fan selection beyond this range.
Quick Selection Chart - Fan KTF Series (Uni-Directional)

Please contact Kruger for fan selection beyond this range.
Quick Selection Chart - Fan KTF Series (Uni-Directional)

Please contact Kruger for fan selection beyond this range.
Quick Selection Chart - Fan KTF-R Series (Reversible)

Please contact Kruger for fan selection beyond this range.
Quick Selection Chart - Fan KTF-R Series (Reversible)

Please contact Kruger for fan selection beyond this range.
## Accessories

<table>
<thead>
<tr>
<th>Spring Isolator</th>
<th>Rubber Isolator</th>
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<tr>
<td><img src="image1.png" alt="Spring Isolator" /></td>
<td><img src="image2.png" alt="Rubber Isolator" /></td>
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<table>
<thead>
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<th>Inlet Bellmouth</th>
<th>Counter Flange</th>
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<td><img src="image3.png" alt="Inlet Bellmouth" /></td>
<td><img src="image4.png" alt="Counter Flange" /></td>
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<table>
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<th>Cable Pull Safety Switch</th>
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<tr>
<td><img src="image5.png" alt="Safety Wire" /></td>
<td><img src="image6.png" alt="Cable Pull Safety Switch" /></td>
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<tr>
<td>Project Name</td>
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<td>--------------------------------------------------</td>
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<tr>
<td>Metro Xin Zhuang Line CK378A</td>
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<tr>
<td>Metro Xin Zhuang Line CK378B</td>
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<tr>
<td>Metro Xin Zhuang Line CK378D</td>
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<tr>
<td>Metro Xin Zhuang Line CK378H</td>
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<tr>
<td>Metro Xin Yi Line CR 388A</td>
</tr>
<tr>
<td>Metro Xin Yi Line CR 388B</td>
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<tr>
<td>TaoYuan Airport CA 384</td>
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<tr>
<td>Downtown Line-Stage 2</td>
</tr>
<tr>
<td>Xiang An Subsea Tunnel</td>
</tr>
<tr>
<td>Guangzhou Luntou-Sheng Wu island University Crossing Pearl River Tunnel</td>
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<td>Xishan Taigu Tunnel</td>
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<td>Wu Songshan Tunnel</td>
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<td>BaGuaShan</td>
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<tr>
<td>Marina Common Service Tunnel</td>
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<tr>
<td>Jurong Rock Cavern</td>
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Tunnel Ventilation Methods

Different countries/regions may have different requirements/regulations on tunnel ventilation systems. There are many types of ventilation systems. However, only two types of fans are used: axial fans and jet fans. Axial fans are used to supply fresh air and extract contaminated air / smoke. Jet fans are used in longitudinal ventilation system to push the contaminated air / smoke to a place where it can then be extracted out by axial fans. The following are illustrations of different tunnel ventilation systems that are in common use.

A. General Tunnel Ventilation
This applies to both road tunnel and subway (metro) tunnel, road tunnel is used for illustration purpose.

1. Natural Ventilation

2. Natural Ventilation with Central Shaft

3. Injection Type Longitudinal Ventilation

4. Central Exhaust Shaft Type Longitudinal Ventilation
5. Central Supply & Exhaust Shaft Type Longitudinal Ventilation

6. Point Extraction Type Longitudinal Ventilation (PEV)

7. Semi-Transverse Supply Type

8. Semi-Transverse Exhaust Type
9. Semi-Transverse Half Supply Half Exhaust Type

10. Fully Transverse Type

B. Metro Ventilation
   This applies to Trackway Exhaust
KTF1250/M225C/6-6
1450 rpm -50Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF1250/M225C/8-8
1450 rpm -50Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF1250/M225C/12-12
1450 rpm -50Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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KTF1250/M225D/8-8
1450 rpm -50Hz

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KTF1250/M225D/12-12  
1450 rpm -50Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF1250/M225E/6-6
1450 rpm -50Hz

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KTF1250/M225E/8-8
1450 rpm -50Hz

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KTF1400/M250C/6-6
950 rpm -50Hz

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KTF1400/M250D/8-8
950 rpm -50Hz

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KTF1400/M250D/12-12
950 rpm -50Hz

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KTF1400/M250E/12-12
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KTF1400/M250E/12-12
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KTF1600/M280C/8-8
1450 rpm -50Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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KTF1600/M280D/6-6
950 rpm -50Hz

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KTF1600/M280D/6-6
1450 rpm -50Hz

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KTF1600/M280D/8-8
950 rpm -50Hz

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KTF1600/M280D/12-12
950 rpm -50Hz

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KTF1600/M280E/6-6
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KTF1800/M315D/6-6
950 rpm -50Hz

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KTF1800/M315E/8-8
950 rpm -50Hz

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Performance ratings do not include the effects of appurtenances (accessories).
KTF1800/M315E/12-12
950 rpm -50Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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KTF2000/M355C/6-6
950 rpm -50Hz

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KTF2000/M355C/12-12
950 rpm -50Hz

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KTF2000/M355E/6-6
725 rpm -50Hz

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KTF2240/M400C/6-6
950 rpm -50Hz

Performance ratings do not include the effects of appurtenances (accessories).

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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KTF2240/M400D/8-8
725 rpm -50Hz

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KTF2240/M400D/12-12
950 rpm -50Hz

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FEG 75

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KTF2240/M400E/12-12
950 rpm -50Hz

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KTF2500/M450C/8-8
725 rpm -50Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF2500/M450C/8-8
950 rpm -50Hz

Total Pressure (Pa)
Absorbed Power (kW)
Total Efficiency (%)
Performance ratings do not include the effects of appurtenances (accessories). - Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF2500/M450C/12-12
950 rpm -50Hz

Performance ratings do not include the effects of appurtenances (accessories). Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
Performance ratings do not include the effects of appurtenances (accessories).
KTF2500/M450D/6-6
950 rpm -50Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF2500/M450D/8-8
725 rpm -50Hz

Performance ratings do not include the effects of appurtenances (accessories).
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF2500/M450E/8-8
950 rpm -50Hz

Performance ratings do not include the effects of appurtenances (accessories).

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
Performance ratings do not include the effects of appurtenances (accessories).
KTF2800/M500C/8-8
950 rpm -50Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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KTF2800/M500D/6-6
725 rpm -50Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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KTF2800/M500E/6-6
950 rpm -50Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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KTF2800/M500E/12-12
725 rpm -50Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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KTF1250/M225C/12-12
1750 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories). Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF1250/M225D/6-6
1150 rpm -60Hz

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KTF1250/M225D/12-12
1150 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories). Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF1250/M225D/12-12
1750 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories).
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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KTF1250/M225E/12-12
1750 rpm -60Hz

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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF1400/M250D/6-6
1750 rpm - 60Hz

Performance ratings do not include the effects of appurtenances (accessories).

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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KTF1400/M250D/12-12
1150 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories).

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF1400/M250D/12-12
1750 rpm -60Hz

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KTF1400/M250E/8-8
1150 rpm -60Hz

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KTF1600/M280C/6-6
1150 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF1600/M280C/8-8
875 rpm -60Hz

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KTF1600/M280D/6-6
1750 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF1600/M280D/8-8
875 rpm -60Hz

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KTF1600/M280D/12-12
1150 rpm -60Hz

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KTF1600/M280E/6-6
1750 rpm -60Hz

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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF1600/M280E/12-12
1750 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
Performance ratings do not include the effects of appurtenances (accessories).
KTF1800/M315C/6-6
875 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF1800/M315C/8-8
700 rpm -60Hz

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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF1800/M315C/12-12
875 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories).
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KTF1800/M315D/8-8
700 rpm -60Hz

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KTF1800/M315D/12-12
1150 rpm -60Hz

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KTF1800/M315E/6-6
875 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories).

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KTF1800/M315E/8-8
700 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories). Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF1800/M315E/8-8
875 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories).

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**KTF2000/M355C/6-6**

700 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF2000/M355C/6-6
1150 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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KTF2000/M355C/8-8
875 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF2000/M355C/8-8
1150 rpm -60Hz

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KTF2000/M355E/6-6
700 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories).

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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF2240/M400C/6-6
875 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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KTF2240/M400C/8-8
875 rpm -60Hz

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KTF2240/M400D/6-6
700 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories).

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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KTF2240/M400D/6-6
1150 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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KTF2240/M400D/12-12
700 rpm -60Hz

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KTF2240/M400D/12-12
875 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories).
KTF2240/M400D/12-12
1150 rpm - 60Hz

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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF2500/M450C/8-8
875 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF2500/M450C/12-12
875 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF2500/M450C/12-12
1150 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF2500/M450D/12-12
875 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF2500/M450D/12-12
1150 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF2500/M450E/6-6
875 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF2500/M450E/6-6
1150 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories). Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
Performance ratings do not include the effects of appurtenances (accessories).
KTF2500/M450E/12-12
700 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories).

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF2500/M450E/12-12
875 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF2500/M450E/12-12
1150 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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Performance ratings do not include the effects of appurtenances (accessories). - Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF2800/M500C/8-8
875 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories).

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF2800/M500C/12-12
700 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF2800/M500D/6-6
875 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF2800/M500E/6-6
700 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF2800/M500E/6-6
875 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
Performance ratings do not include the effects of appurtenances (accessories).
KTF2800/M500E/8-8

875 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories). Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF2800/M500E/12-12
700 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF2800/M500E/12-12
875 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories). Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
Performance ratings do not include the effects of appurtenances (accessories).
FEG 75

Performance ratings do not include the effects of appurtenances (accessories).
KTF3150/M560C/8-8
700 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
Performance ratings do not include the effects of appurtenances (accessories).
KTF3150/M560C/12-12
700 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories).
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
Performance ratings do not include the effects of appurtenances (accessories).
KTF3150/M560D/6-6
875 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories).

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
Performance ratings do not include the effects of appurtenances (accessories).
KTF3150/M560D/8-8
875 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
Performance ratings do not include the effects of appurtenances (accessories).
KTF3150/M560D/12-12
875 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF3150/M560E/6-6
875 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories).
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Performance ratings do not include the effects of appurtenances (accessories). - Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
Performance ratings do not include the effects of appurtenances (accessories).
Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1250/RB225C/4-4/Forward
1450 rpm -50Hz

Performance ratings do not include the effects of appurtenances (accessories).
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1250/RB225C/8-8/Forward
1450 rpm -50Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1250/RB225C/8-8/Reverse
1450 rpm -50Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1400/RB250C/6-6/Forward
950 rpm -50Hz

Performance ratings do not include the effects of appurtenances (accessories).
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1400/RB250C/6-6/Reverse
950 rpm -50Hz

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

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1400/RB250C/6-6/Reverse
1450 rpm -50Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1400/RB250C/8-8/Forward
950 rpm -50Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1400/RB250C/8-8/Reverse
950 rpm -50Hz

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

380
KTF-R1400/RB250C/8-8/Forward
1450 rpm -50Hz

Performance ratings do not include the effects of appurtenances (accessories).

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1400/RB250C/8-8/Reverse
1450 rpm - 50Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1600/RB280C/4-4/Forward
950 rpm - 50Hz

Performance ratings do not include the effects of appurtenances (accessories).

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
Performance ratings do not include the effects of appurtenances (accessories). - Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1600/RB280C/4-4/Reverse
1450 rpm -50Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1600/RB280C/6-6/Forward
1450 rpm -50Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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Performance ratings do not include the effects of appurtenances (accessories). Performance certified is for installation type D - ducted inlet, ducted outlet.
Performance ratings do not include the effects of appurtenances (accessories). Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1600/RB280C/8-8/Forward
1450 rpm - 50Hz

Performance ratings do not include the effects of appurtenances (accessories).
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Performance ratings do not include the effects of appurtenances (accessories).

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1800/RB315C/4-4/Reverse
725 rpm -50Hz

Performance ratings do not include the effects of appurtenances (accessories). Performance certified is for installation type D - ducted inlet, ducted outlet.
KTF-R1800/RB315C/4-4/Forward
950 rpm -50Hz

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

- Performance certified is for installation type D - ducted inlet, ducted outlet.
KTF-R1800/RB315C/4-4/Reverse
950 rpm -50Hz

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

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1800/RB315C/4-4/Forward
1450 rpm -50Hz

Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1800/RB315C/4-4/Reverse
1450 rpm -50Hz

Performance ratings do not include the effects of appurtenances (accessories).

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1800/RB315C/6-6/Reverse
950 rpm -50Hz

Performance ratings do not include the effects of appurtenances (accessories).

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1800/RB315C/6-6/Reverse
1450 rpm -50Hz

Performance ratings do not include the effects of appurtenances (accessories).

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1800/RB315C/8-8/Reverse
950 rpm -50Hz

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

Q [m³/s]

FEG 75
KTF-R1800/RB315C/8-8/Reverse
1450 rpm -50Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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Performance ratings do not include the effects of appurtenances (accessories).
KTF-R2000/RB355C/4-4/Reverse
950 rpm -50Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R2000/RB355C/4-4/Forward
1450 rpm -50Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R2000/RB355C/4-4/Reverse
1450 rpm -50Hz

*Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).*
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R2000/RB355C/6-6/Reverse
725 rpm -50Hz

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

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KTF-R2000/RB355C/6-6/Reverse
1450 rpm -50Hz

Performance ratings do not include the effects of appurtenances (accessories).

- Performance certified for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R2000/RB355C/8-8/Forward
725 rpm -50Hz

Performance ratings do not include the effects of appurtenances (accessories).
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R2000/RB355C/8-8/Reverse
725 rpm -50Hz

Performance ratings do not include the effects of appurtenances (accessories).

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R2000/RB355C/8-8/Reverse
1450 rpm - 50Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R2240/RB400C/4-4/Forward
725 rpm -50Hz

Performance ratings do not include the effects of appurtenances (accessories). - Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R2240/RB400C/4-4/Reverse
725 rpm -50Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R2240/RB400C/4-4/Forward
950 rpm -50Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R2240/RB400C/4-4/Reverse
950 rpm -50Hz

Performance ratings do not include the effects of appurtenances (accessories).

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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Performance ratings do not include the effects of appurtenances (accessories).
KTF-R2240/RB400C/8-8/Reverse
950 rpm -50Hz

Performance ratings do not include the effects of appurtenances (accessories).
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1250/RB225C/4-4/Forward
1150 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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KTF-R1250/RB225C/4-4/Reverse
1750 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories). Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1250/RB225C/6-6/Reverse
1150 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories).
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1250/RB225C/6-6/Forward
1750 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories).

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1250/RB225C/6-6/Reverse
1750 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories).

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1250/RB225C/8-8/Forward
1150 rpm -60Hz

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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1250/RB225C/8-8/Reverse
1750 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories). - Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1400/RB250C/4-4/Reverse
1150 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories).
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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1400/RB250C/4-4/Reverse
1750 rpm -60Hz

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KTF-R1400/RB250C/8-8/Forward
1750 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1400/RB250C/8-8/Reverse
1750 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1600/RB280C/4-4/Reverse
1150 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
Performance ratings do not include the effects of appurtenances (accessories). - Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1600/RB280C/4-4/Reverse
1750 rpm - 60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1600/RB280C/6-6/Forward
1150 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories).
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1600/RB280C/6-6/Forward
1750 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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KTF-R1600/RB280C/8-8/Reverse
1150 rpm -60Hz
Performance ratings do not include the effects of appurtenances (accessories). - Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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KTF-R1800/RB315C/4-4/Forward
875 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories).
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1800/RB315C/4-4/Forward
1150 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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KTF-R1800/RB315C/6-6/Reverse
875 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories).

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1800/RB315C/6-6/Forward
1150 rpm -60Hz

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

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KTF-R1800/RB315C/8-8/Forward
1150 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R1800/RB315C/8-8/Reverse
1150 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R2000/RB355C/4-4/Reverse
875 rpm -60Hz

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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R2000/RB355C/4-4/Reverse
1150 rpm -60Hz

- Performance certified for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R2000/RB355C/8-8/Reverse
875 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories).

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R2000/RB355C/8-8/Forward
1150 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R2000/RB355C/8-8/Reverse
1150 rpm -60Hz

Performance ratings do not include the effects of appurtenances (accessories).
- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R2240/RB400C/4-4/Reverse
875 rpm - 60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R2240/RB400C/4-4/Forward
1150 rpm -60Hz

- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
KTF-R2240/RB400C/4-4/Reverse
1150 rpm -60Hz

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KTF-R2240/RB400C/6-6/Reverse
1150 rpm -60Hz

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- Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
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KTF-R2240/RB400C/8-8/Reverse
875 rpm -60Hz

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