THE NEW PUNKER D-SERIES

Discover our industry leader.

SURPRISINGLY

VERSATILE
THE NEW PUNKER D-SERIES

Discover our industry leader – maximum durability, extremely versatile with an unbeatable price-performance ratio.

The four punker D-Series models are perfect for all unhoused HVAC applications. Smooth, efficient and extremely cost effective, they provide versatility to any situation at any time.

Runs like a charm.
FOCUS ON: EFFICIENCY

- Very high static efficiency due to the eponymous diffuser
- Highest durability and optimal material input
- Ideal for pressure ranges from 1,000 up to 4,500 Pa
- Suited for ventilation performance areas according to AMCA classes I, II, III
- Compatible with various motors due to selectable impeller-motor-connection
- Applicable with/without variable speed drive (VSD)

The D-Series’ models are available in 14 sizes from 225 to 1,000 mm diameter in one fixed width. The corresponding inlet cone ED 11 is equipped with blind rivet nuts for pressure tapping.
OUR LIGHTWEIGHT: D light - tabbed | D light - welded

The Dlight fan wheel is well suited for unhou sed applications that require a static pressure increase of 1.000 to 1.500 Pa (AMCA Class I). For these applications, both the tabbed and the welded aluminum Dlight model provide high ventilation system performance and good acoustics while remaining low weight and highly durable.

This makes the Dlight compatible with external rotor motors, allowing for extremely compact application designs.

EXCEEDINGLY LIGHT
- Tabbed or welded aluminum design
- Max. static efficiency 73% (80% total efficiency)
- Pressure ranges up to 1.500 Pa (AMCA Class I)
- Max. rotational speed 55 m/s (2.650 rpm for 400 mm type)
PROPERTIES

- Blower wheel for use in unhoused applications
- Efficiency: up to 73% static efficiency
  (80% total efficiency) without scroll housing
- Max. rotational speed: 55 m/s
- Circular diffuser provides optimal performance data
- Compatible with various PM/DC/EC/AC-motors; 50/60 Hz; with/without VSD

APPLICATIONS

- HVAC applications
- Air Handling Units (AHU)
- Building ventilation systems
- Plug fans
- Plenum fans
- Compressor cooling

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Models</th>
<th>Available in 9 (tabbed) / 5 (welded) different diameters and one standard width</th>
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</thead>
<tbody>
<tr>
<td>Diameter</td>
<td>250 mm to 630 mm (tabbed) / 400 mm to 630 mm (welded)</td>
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<tr>
<td>Material</td>
<td>Aluminum</td>
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<tr>
<td>Production process</td>
<td>Tabbed or welded design</td>
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<tr>
<td>Construction</td>
<td>Single width</td>
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<tr>
<td>Inlet cone</td>
<td>ED 11 with blind rivet nut for pressure tapping</td>
</tr>
<tr>
<td>Mounting</td>
<td>Taperlock hub or variable pitch circle diameter (PCD)</td>
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</tbody>
</table>
OUR STANDARD STEEL: **D classic**

With Dclassic, punker offers the optimal fan wheel for unhoused applications that require a static pressure increase of 1.500 to 2.500 Pa (AMCA Class II). Thanks to the welded steel design, Dclassic can be used for high rotational speeds up to 75 m/s.

Your benefit: Very high ventilation system performance with 75% static efficiency (83% total efficiency) in unhoused applications.

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**EXTREMELY ROBUST**

- Welded steel design
- Max. static efficiency 75% (83% total efficiency)
- Pressure ranges 1.500 to 2.500 Pa (AMCA Class II)
- Max. rotational speed 75 m/s (3,600 rpm for 400 mm type)
PROPERTIES

- Blower wheel for use in unhoused applications
- Efficiency: up to 75% static efficiency
  (83% total efficiency) without scroll housing
- Max. rotational speed: 75 m/s
- Circular diffuser provides optimal performance data
- Compatible with various PM/DC/EC/AC-motors; 50/60 Hz; with/without VSD

APPLICATIONS

- HVAC applications
- Air Handling Units (AHU)
- Building ventilation systems
- Plug fans
- Plenum fans
- Compressor cooling
- Extraction units

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Models</th>
<th>Standard model sizes available in 14 different diameters and one standard width</th>
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<tbody>
<tr>
<td>Diameter</td>
<td>225 mm to 1,000 mm</td>
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<tr>
<td>Material</td>
<td>Steel</td>
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<tr>
<td>Production process</td>
<td>Welded design</td>
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<tr>
<td>Construction</td>
<td>Single width</td>
</tr>
<tr>
<td>Inlet cone</td>
<td>ED 11 with blind rivet nut for pressure tapping</td>
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<tr>
<td>Mounting</td>
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</tbody>
</table>
OUR CHAMPION: D prime

The fan wheel for all major challenges: D prime for unhoused applications that require a static pressure increase of 2.500 to 4.000 Pa (AMCA Class III).

The welded aluminum execution allows for use with extremely high rotational speeds up to 95 m/s.

D prime reaches a maximum static efficiency of over 75% (total efficiency 83%) and delivers extremely high ventilation system performance. On top of that, its airfoil blade geometry provides for excellent acoustics.

SUPER SILENT

- Airfoil blade geometry
- Welded aluminum design
- Max. static efficiency 75% (83% total efficiency)
- Pressure ranges 2.500 to 4.000 Pa (AMCA Class III)
- Max. rotational speed 95 m/s
PROPERTIES

- Blower wheel for use in unhoused applications
- Efficiency: up to 75% static efficiency
  (83% total efficiency) without scroll housing
- Max. rotational speed: 95 m/s
- Circular diffuser provides optimal performance data
- Compatible with various PM/DC/EC/AC-motors;
  50/60 Hz; with/without VSD
- Particularly lower and broadband noise

APPLICATIONS

- HVAC applications
- Air Handling Units (AHU)
- Building ventilation systems
- Plug fans
- Plenum fans
- Compressor cooling

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Models</th>
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<tr>
<td>Diameter</td>
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<td>Production process</td>
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<tr>
<td>Construction</td>
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<td>Inlet cone</td>
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</table>
PUNKER – ALWAYS IN MOTION

Air movement system solutions perfectly suited to industry requirements – that’s punker. For over 60 years, punker has stood for high quality products, innovative developments and superior service. Worldwide and always in close cooperation with our customers.

At our production sites in Eckernförde, Germany and Hickory, USA we develop solutions for a vast variety of applications. Together with you, high-quality materials and extensive technical knowledge, it is no wonder that with more than 1,000 customers worldwide, punker is the largest European developer and manufacturer of radial fan wheels.

Professional, goal-oriented and personal.

Foundation for best results:

Committed employees willing to improve each and every product with knowledge, experience and passion.

We are member of the following industry associations:
OUR PRODUCTS

We offer fan wheels and air movement solutions for almost every application purpose – custom designed solutions, engineered in Germany.

- Development of air movement system solutions since 1954
- 2 production sites: in Eckernförde/Schleswig-Holstein (Germany) and Hickory/North Carolina (U.S.A.)
- A total of 22,000 m² production area with an extensive range of machinery
- Approximately 300 highly motivated and qualified employees
- Export: > 50%

punker at a glance:

Discover the whole variety of our products or get in touch with us directly.

www.punker.com