

# VANE AXIAL FAN

DIRECT DRIVEN







Kruger\* certifies that the TDA 315 -V 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.

\*Kruger Ventilation Industries Asia Co., Ltd

- \*Guangzhou Kruger Ventilation Co., Ltd \*Kruger Ventilation (Taiwan) Co., Ltd
- \*Kruger Ventilation Industries (Vietnam) Co., Ltd
- \*Kruger Ventilation Industries (India) Pvt. Ltd
- \*Kruger Ventilation Industries (North India) Pvt. Ltd \*Kruger Ventilation Industries (Thailand) Co., Ltd
- \*Kruvent Industries (M) Sdn. Bhd
- \*P.T. Kruger Ventilation Indonesia
- \*Shanghai Kruger Ventilation Co., Ltd \*Wuhan Kruger Ventilation Co., Ltd

# Series TDA-V

#### Features

For commercial and industrial applications where large volumes of air are required at moderate to high pressure, special designed integral straightening vanes, reduced turbulence, provide high performance and low sound level.

#### Construction

Double flanged casing is produced in mild steel or galvanised Steel, the impeller having manually adjustable pitch aerofoil blades is made of PPG, PAG or Aluminium.

#### Finish

Available in standard finishes of galvanisation or painting.

#### **Operating Temperature**

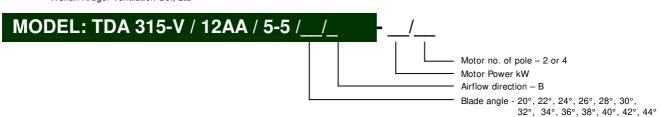
-20°C to +55°C

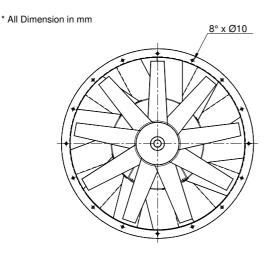
#### Motors

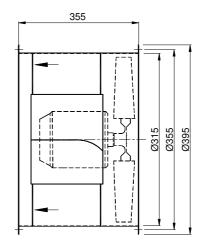
Totally enclosed Class 'F' motor, to a min. IP54 protection are fitted as standard. Standard motor up to 2.2kW are usually supplied on DOL starting, motor 3.0kW and above are star/delta starting.

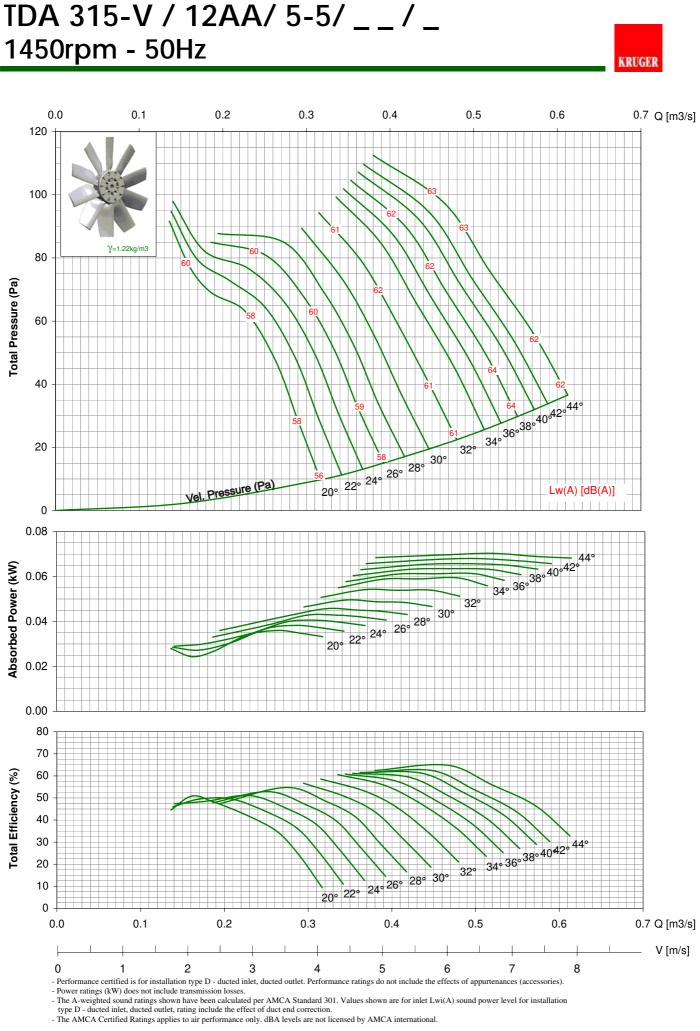
#### **Airflow Direction**

Air flowing from impeller to motor is fitted as standard.

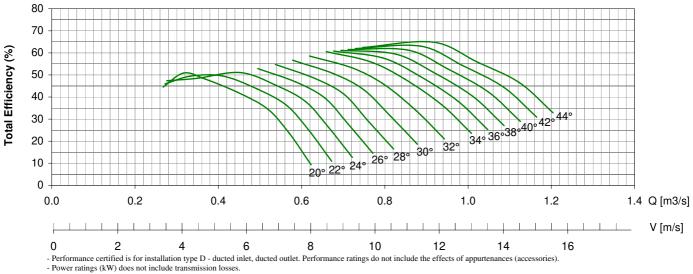






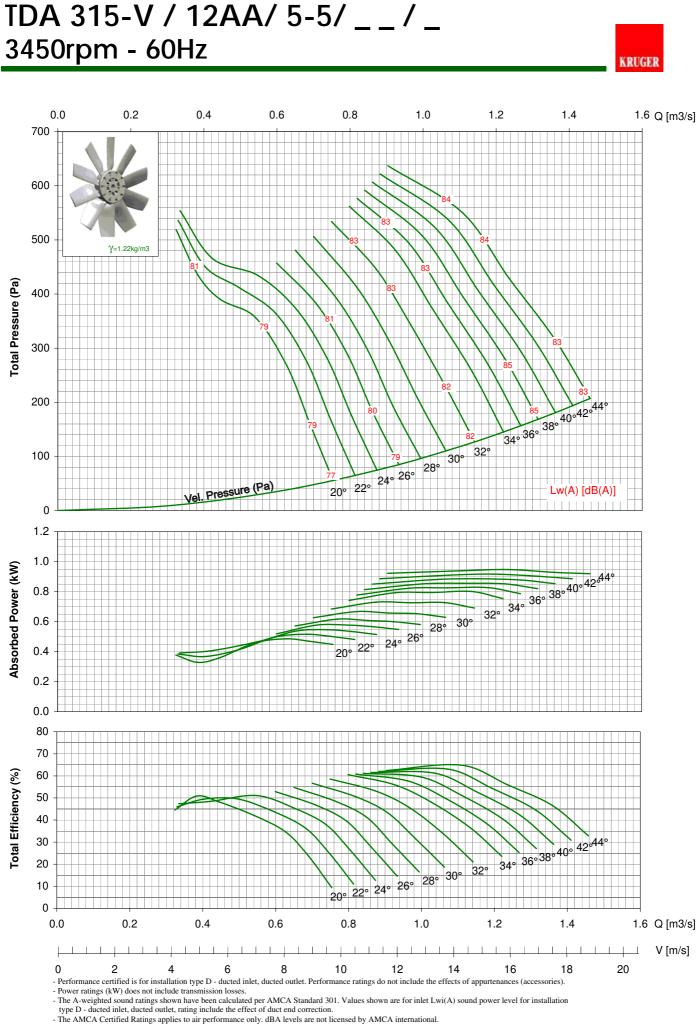


#### TDA 315-V / 12AA/ 5-5/ \_ \_ / \_ 2850rpm - 50Hz KRUGER 0.2 0.4 0.6 0.8 1.0 1.2 0.0 1.4 Q [m3/s] 500 450 400 350 Total Pressure (Pa) 300 250 200 150 34° 36° 38° 40° 42 100 32° 20° 22° 24° 26° 28° 30° 50 Pressure (Pa) Lw(A) [dB(A)]Vel 0 0.8 Absorbed Power (kW) 0.6 20° 22° 24° 26° 28° 30° 32° 44° 0.4 0.2 0.0



#### TDA 315-V / 12AA/ 5-5/ \_ \_ / \_ 1750rpm - 60Hz KRUGER 0.2 0.3 0.4 0.5 0.6 0.7 0.0 0.1 0.8 Q [m3/s] 200 180 160 140 $V = 1.22 kg/m^3$ Total Pressure (Pa) 120 100 80 60 34° 36° 38° 40° 42° 44° 40 32° 30° 20° 22° 24° <sup>26°</sup> 28° 20 Vel Pressure (Pa) Lw(A) [dB(A)]0 0.15 **Apsorbed Power (kW)** 0.09 0.06 0.03 20° 22° 24° 26° 28° 30° 32° 34° 36° 38 40° 20° 22° 24° 26° 28° 30° 32° 0.00 80 70 Total Efficiency (%) 60 50 40 34° 36° 38° 40° 42° 44° 30 20 20° 22° 24° 26° 28° 30° 32° 10 0 0.1 0.2 0.3 0.0 0.4 0.5 0.6 0.7 0.8 Q [m3/s] V [m/s] 0 2 4 6 8 10

Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
Power ratings (kW) does not include transmission losses.
The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.
The AMCA Certified Ratings applies to air performance only. dBA levels are not licensed by AMCA international.









Kruger\* certifies that the TDA 355 -V 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

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## Series TDA-V

#### Features

For commercial and industrial applications where large volumes of air are required at moderate to high pressure, special designed integral straightening vanes, reduced turbulence, provide high performance and low sound level.

#### Construction

Double flanged casing is produced in mild steel or galvanised Steel, the impeller having manually adjustable pitch aerofoil blades is made of PPG, PAG or Aluminium.

#### Finish

Available in standard finishes of galvanisation or painting.

#### **Operating Temperature**

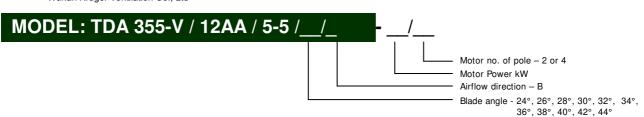
-20°C to +55°C

#### Motors

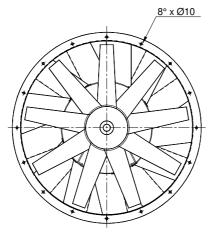
Totally enclosed Class 'F' motor, to a min. IP54 protection are fitted as standard. Standard motor up to 2.2kW are usually supplied on DOL starting, motor 3.0kW and above are star/delta starting.

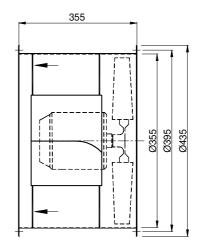
#### **Airflow Direction**

Air flowing from impeller to motor is fitted as standard.



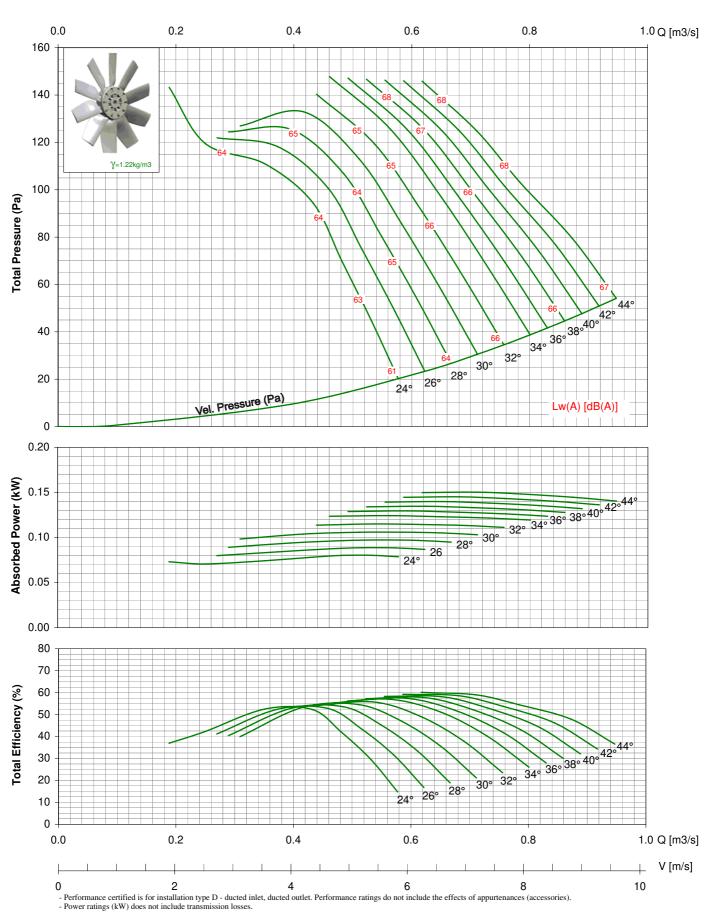
\* All Dimension in mm





## TDA 355-V / 12AA/ 5-5/ \_ \_ / \_ 1450rpm - 50Hz

KRUGER



 The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.

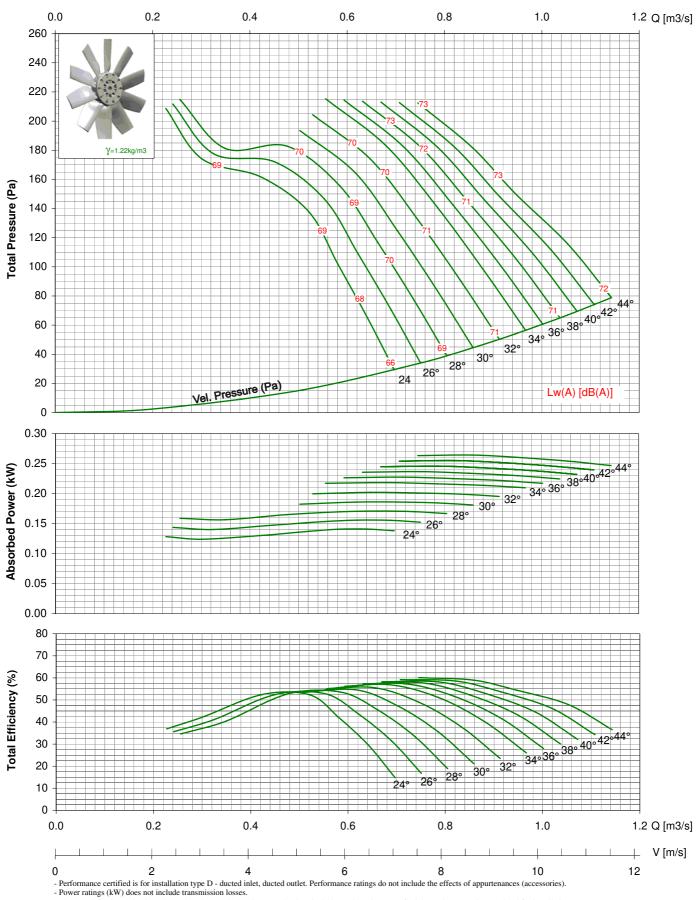
#### TDA 355-V / 12AA/ 5-5/ \_ \_ / \_ 2850rpm - 50Hz KRUGER 0.2 0.4 0.6 0.8 1.0 1.2 1.4 0.0 1.6 1.8 2.0 Q [m3/s] 700 600 500 V=1 22kc Total Pressure (Pa) 400 300 32° 34° 36° 38° 40° 42° 200 30° 100 28° 26° Vel. Pressure (Pa) 24° Lw(A) [dB(A)] 0 1.5 Absorbed Power (kW) 1.2 24° 26° 28° 30° 32° 34° 36° 38° 40° 42° 44° 0.9 0.6 0.3 0.0 80 70 60 Total Efficiency (%) 50 40 34° 36° 38° 40° 42' 44 30 32° 20 30° 28 24° 26° 10

0 2.0 Q [m3/s] 0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 V [m/s] ļ \_ 0 5 10 15 20 Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
 Power ratings (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.

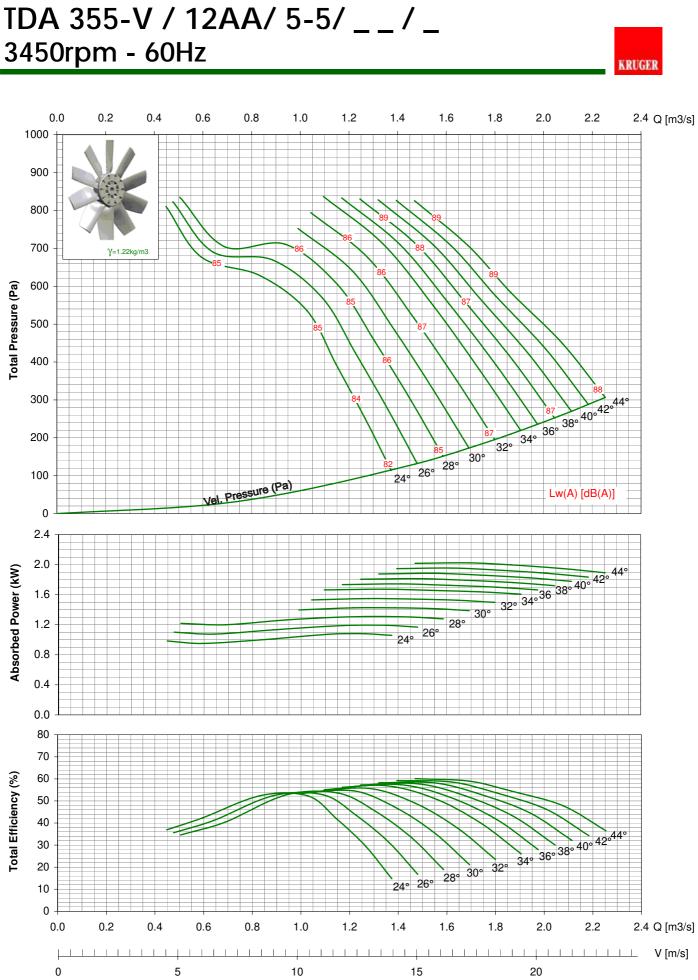
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# TDA 355-V / 12AA/ 5-5/ \_ \_ / \_ 1750rpm - 60Hz



 The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.

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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).
 Power ratings (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.







Kruger\* certifies that the TDA 400 -V 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.

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# Series TDA-V

#### Features

For commercial and industrial applications where large volumes of air are required at moderate to high pressure, special designed integral straightening vanes, reduced turbulence, provide high performance and low sound level.

#### Construction

Double flanged casing is produced in mild steel or galvanised Steel, the impeller having manually adjustable pitch aerofoil blades is made of PPG, PAG or pressurecasted Aluminium.

#### Finish

Available in standard finishes of galvanisation or painting.

#### **Operating Temperature**

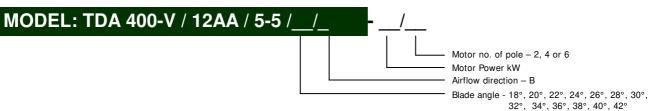
-20°C to +55°C

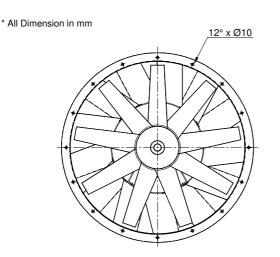
#### Motors

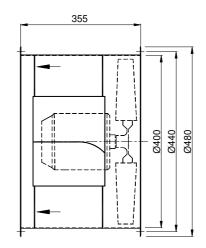
Totally enclosed Class 'F' motor, to a min. IP54 protection are fitted as standard. Standard motor up to 2.2kW are usually supplied on DOL starting, motor 3.0kW and above are star/delta starting.

#### **Airflow Direction**

Air flowing from impeller to motor is fitted as standard.







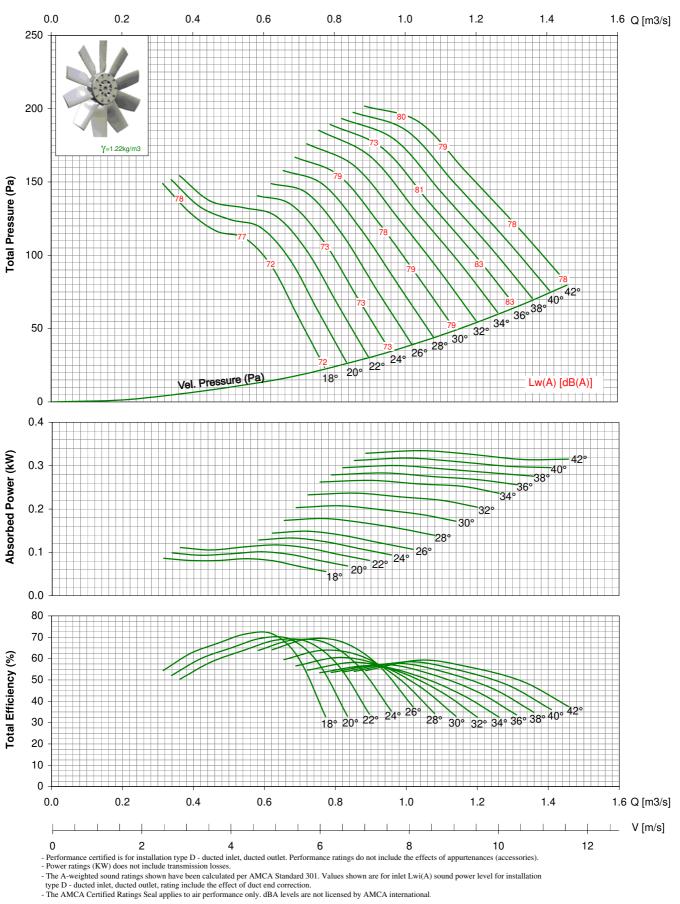
#### TDA 400-V / 12AA/ 5-5/ \_ / \_ 950rpm - 50Hz KRUGER 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.0 0.1 0.9 1.0 Q [m3/s] 100 90 80 70 60 Total Pressure (Pa) 50 40 34° 36° 38° 42° 30 28° 30° 32° 20 18° 20° 22° 24° 26° 10 Vel. Pressure (Pa) Lw(A) [dB(A)]0 0.10 -38° **Apsorbed Power (KM)** 0.06 0.04 0.02 32° 30° 28° 26 24° 22° 20° 18° 0.00 80 70 Total Efficiency (%) 60 50 40 30° 32° 34° 36° 38° 40° 42° 26° 22° 24° 30 28° 20° 18° 20 10 0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 Q [m3/s] 0.0 V [m/s] 0 2 3 4 5 6 7 1

 Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
 Power ratings (KW) does not include transmission losses. - The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation

type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.
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## TDA 400-V / 12AA/ 5-5/ \_ \_ / \_ 1450rpm - 50Hz

KRUGER



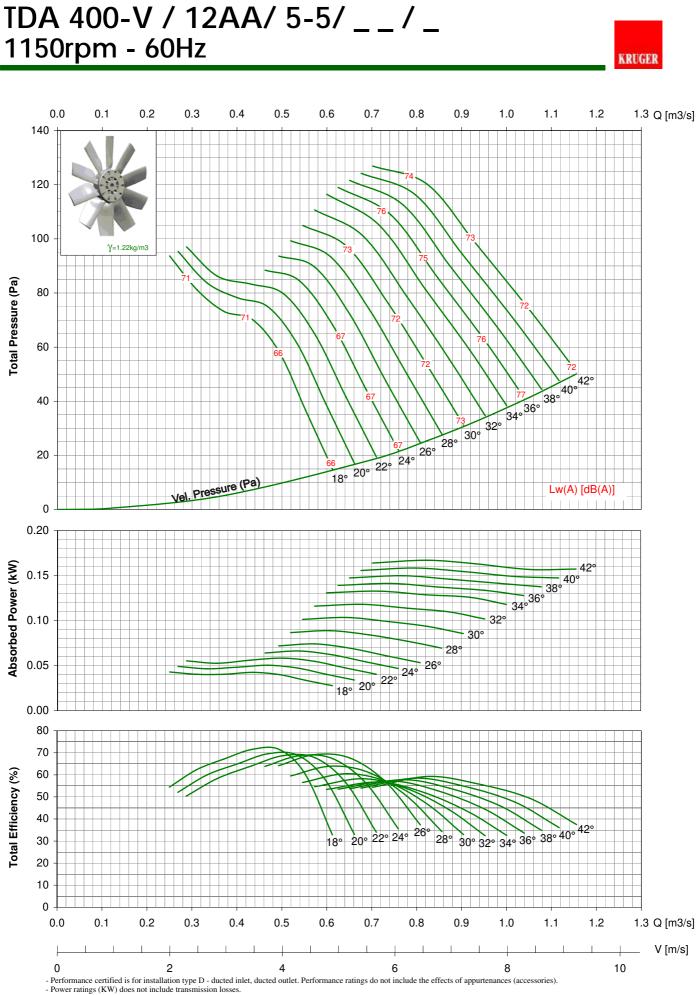
#### 2850rpm - 50Hz KRUGER 0.0 0.5 1.0 1.5 2.0 2.5 3.0 Q [m3/s] 900 800 700 γ=1.22kg/m3 600 Total Pressure (Pa) 500 400 300 34° 36° 38° 40° 42° 24° 26° 28° 30° 32° 200 100 22° Vel. Pressure (Pa) 20° 18° Lw(A) [dB(A)]0 3.0 2.5 Absorbed Power (kW) - 40° - 38° 42° 2.0 34° 1.5 32° 30° 1.0 28° 24° 26° 22° 0.5 20° 18° 0.0 80 70 Total Efficiency (%) 60 50 40 28° 30° 32° 34° 36° 38° 40° 42° 22° 24° 26 30 20° 18° 20 10 0 0.0 0.5 1.0 1.5 2.0 2.5 3.0 Q [m3/s] V [m/s]

0 5 10 15 20

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

The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.
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# TDA 400-V / 12AA/ 5-5/ \_ / \_



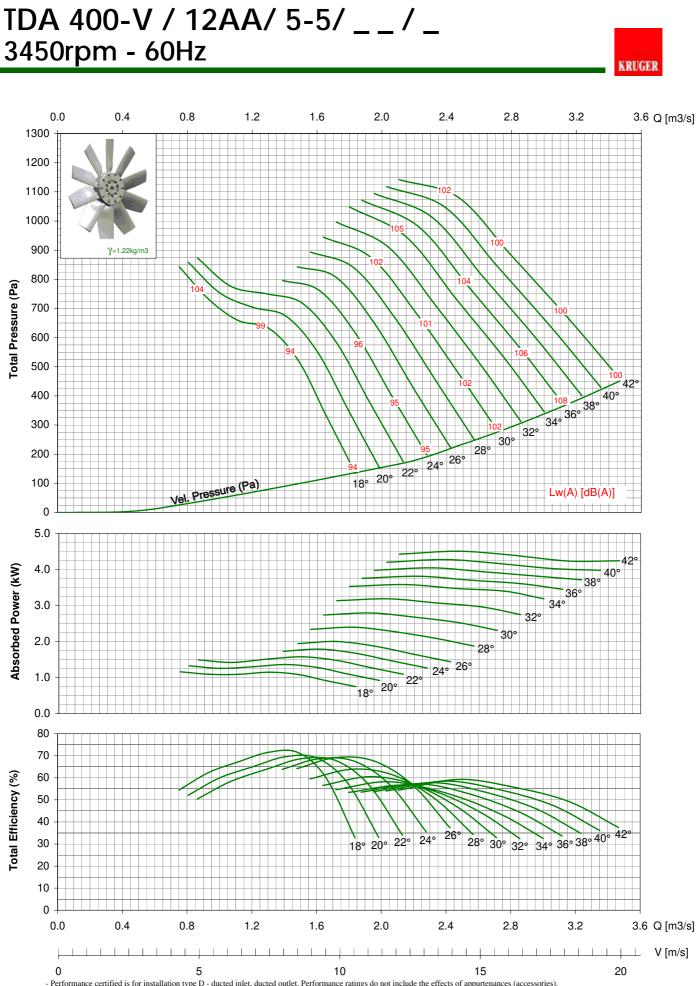
<sup>The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.
The AMCA Certified Ratings Seal applies to air performance only. dBA levels are not licensed by AMCA international.</sup> 

#### TDA 400-V / 12AA/ 5-5/ \_ / \_ 1750rpm - 60Hz KRUGER 0.4 0.6 0.8 0.0 0.2 1.0 1.2 1.4 1.6 1.8 2.0 Q [m3/s] 320 280 240 Y=1.22kg/m3 200 Total Pressure (Pa) 160 120 40° 36° 38° 80 40 Vel. Pressure (Pa) Lw(A) [dB(A)]0 0.7 0.6 Absorbed Power (kW) 42° 0.5 0.4 34° 32° 0.3 30° 28° 20° 22° 24° 0.2 0.1 18° 0.0 80 70 Total Efficiency (%) 60 50 40 28° 30° 32° 34° 36° 38° 40° 42° 20° 22° 24° 26° 30 18° 20 10 0 0.0 0.2 0.6 0.8 0.4 1.0 1.2 1.4 1.6 1.8 2.0 Q [m3/s] V [m/s] 0 2 6 8 10 12 14 4

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

- The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet ducted outlet rating include the effect of duct and correction

type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.
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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).
 Power ratings (KW) does not include transmission losses.

- The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation

type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.
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Kruger\* certifies that the TDA 450 -V 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.

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## Series TDA-V

#### Features

For commercial and industrial applications where large volumes of air are required at moderate to high pressure, special designed integral straightening vanes, reduced turbulence, provide high performance and low sound level.

#### Construction

Double flanged casing is produced in mild steel or galvanised Steel, the impeller having manually adjustable pitch aerofoil blades is made of PPG, PAG or pressurecasted Aluminium.

#### Finish

Available in standard finishes of galvanisation or painting.

#### **Operating Temperature**

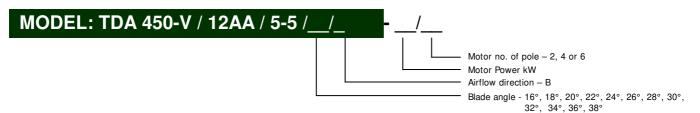
-20°C to +55°C

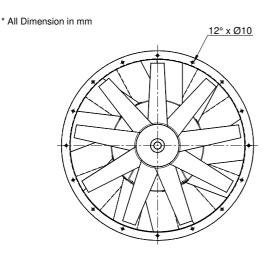
#### Motors

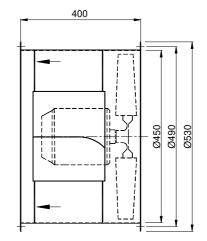
Totally enclosed Class 'F' motor, to a min. IP54 protection are fitted as standard. Standard motor up to 2.2kW are usually supplied on DOL starting, motor 3.0kW and above are star/delta starting.

#### **Airflow Direction**

Air flowing from impeller to motor is fitted as standard.

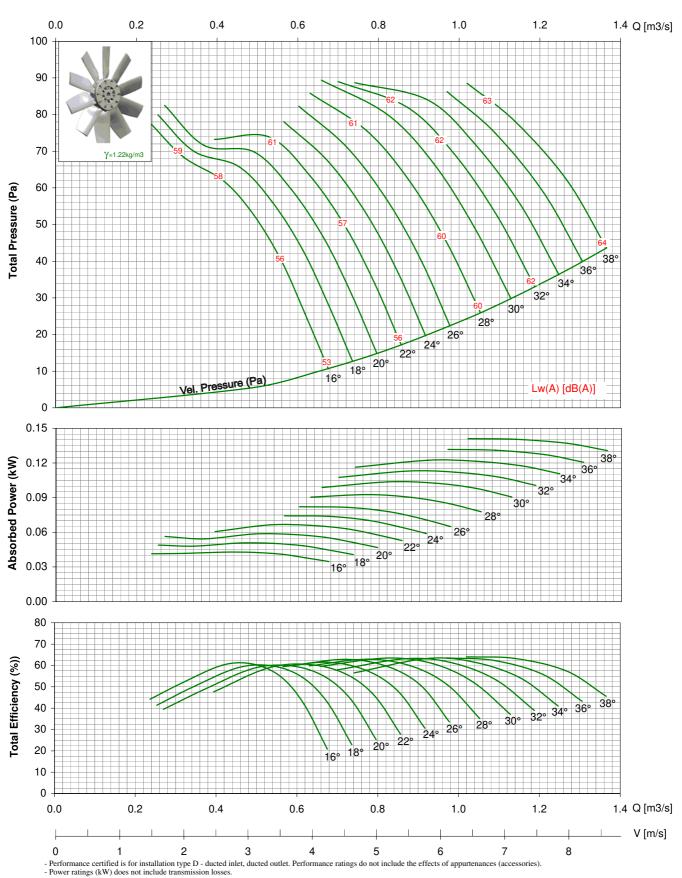




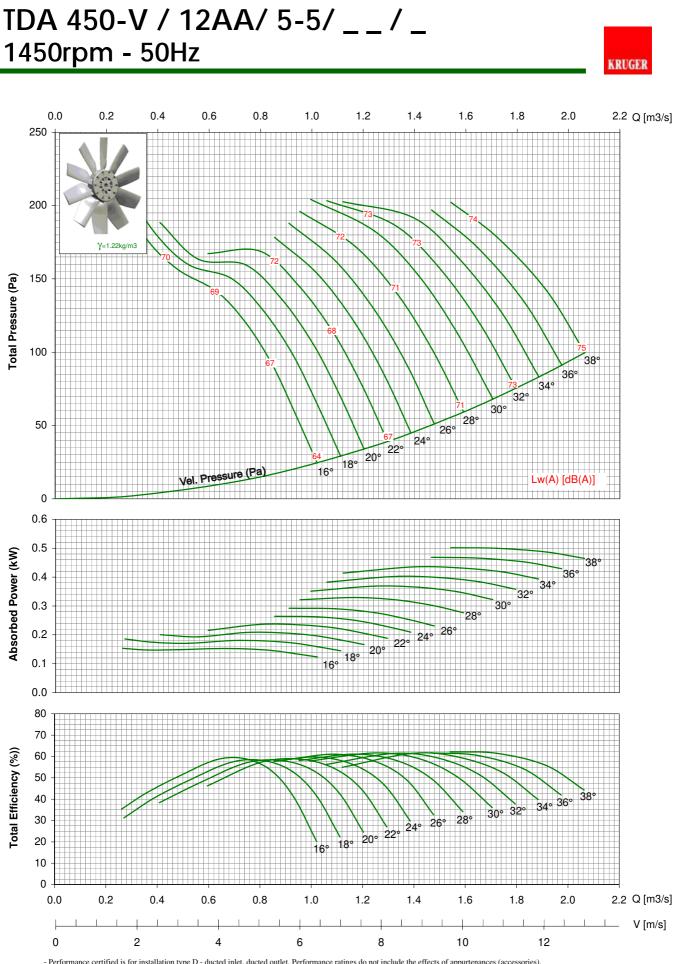


## TDA 450-V / 12AA/ 5-5/ \_ / \_ 950rpm - 50Hz

KRUGER

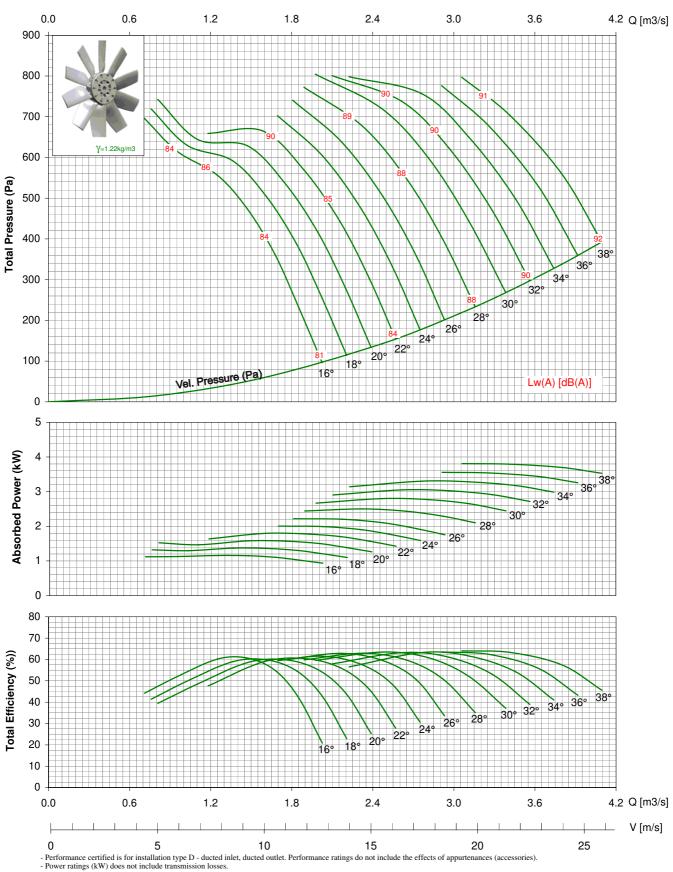


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Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
 Power ratings (kW) does not include transmission losses.





## TDA 450-V / 12AA/ 5-5/ \_ / \_ 1150rpm - 60Hz

0.6

0.8

1.2

1.0

1.4

1.6

0.4

0.2

0.0

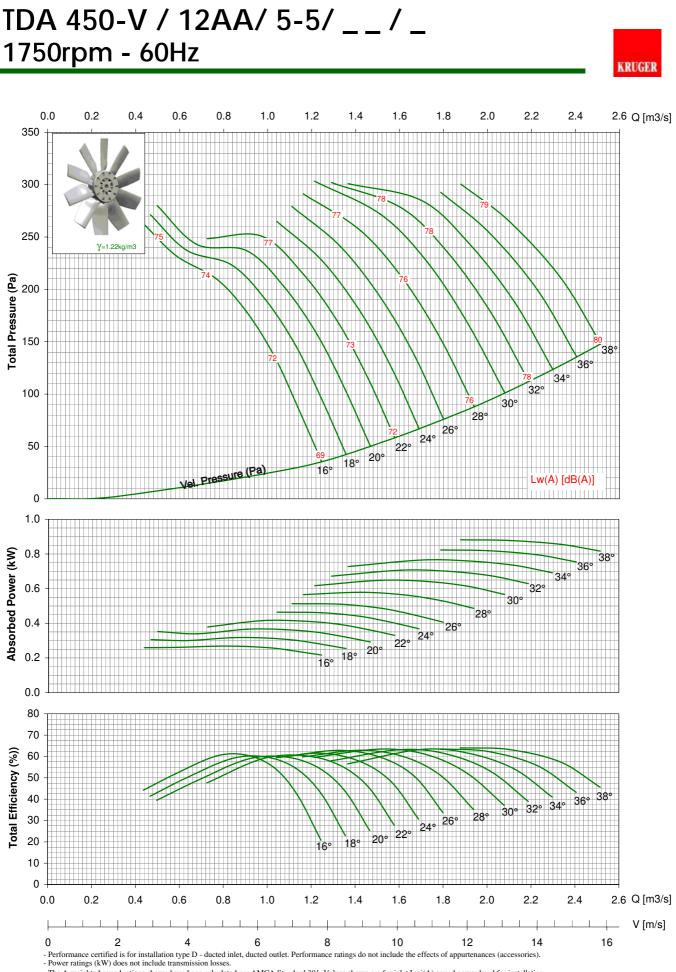
160 140 120 γ=1.22kg/ 100 Total Pressure (Pa) 80 60 38° 36° 34° 32° 30° 40 28° 20° 22° 24° 26° 20 18° Pressure (Pa) 16° Lw(A) [dB(A)]0 0.30 0.25 Absorbed Power (kW) 38' 0.20 36° 34° 32° 30° 0.15 28° 22° 24° 26° 0.10 20° 18° 0.05 16° 0.00 80 70 Total Efficiency (%)) 60 50 38 30° 32° 34° 36° 40 28° 26° 30 24° 22° 20° 20 18° 16° 10

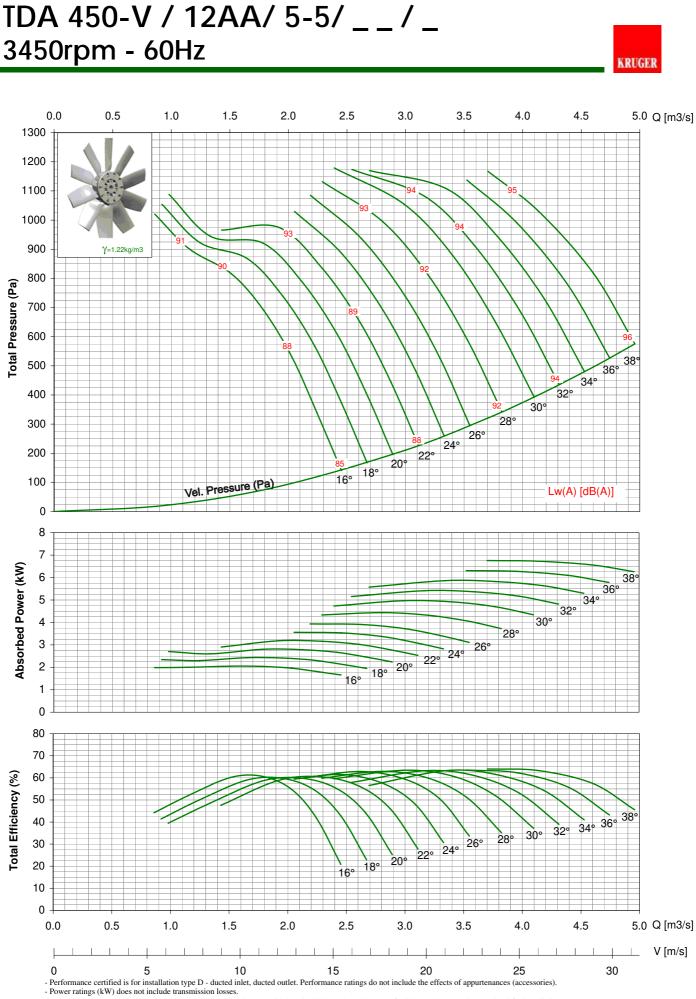
KRUGER

1.8 Q [m3/s]

0 0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 Q [m3/s] V [m/s] 0 2 4 6 8 10

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











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# Series TDA-V

#### Features

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#### Construction

Double flanged casing is produced in mild steel or galvanised Steel, the impeller having manually adjustable pitch aerofoil blades is made of PPG, PAG or pressurecasted Aluminium.

#### Finish

Available in standard finishes of galvanisation or painting.

#### **Operating Temperature**

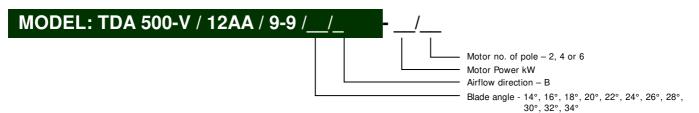
-20°C to +55°C

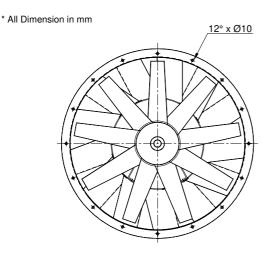
#### Motors

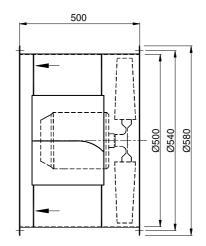
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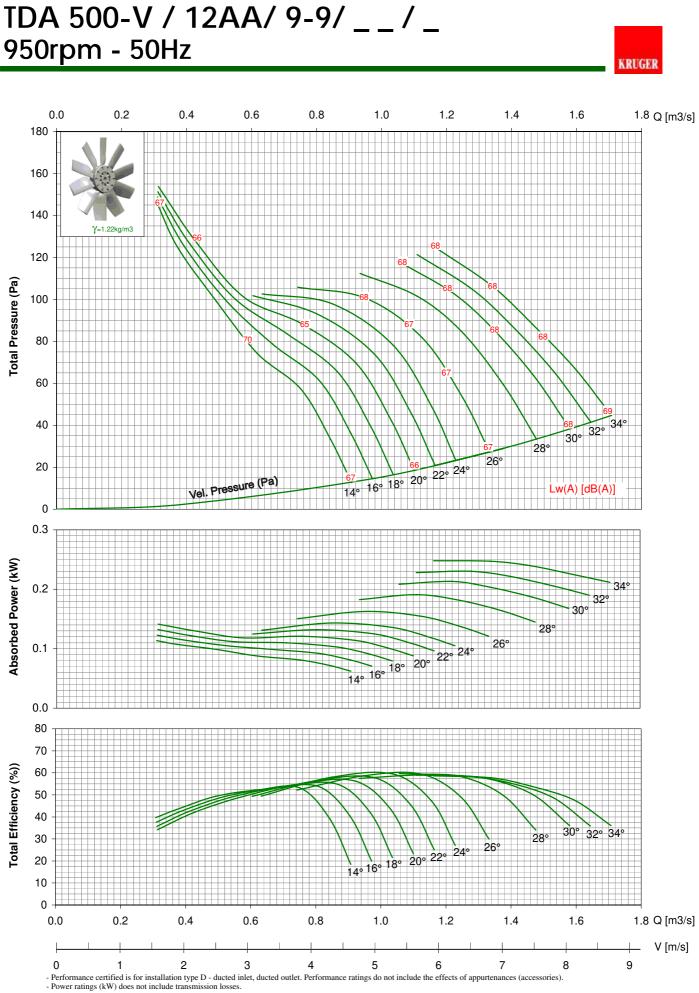
#### **Airflow Direction**

Air flowing from impeller to motor is fitted as standard.

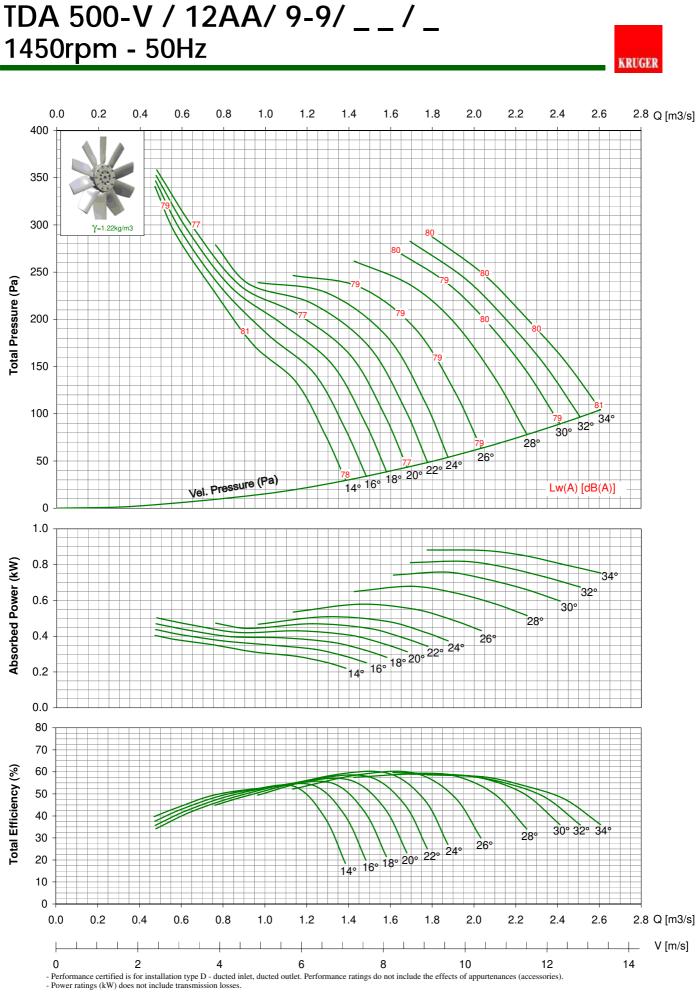






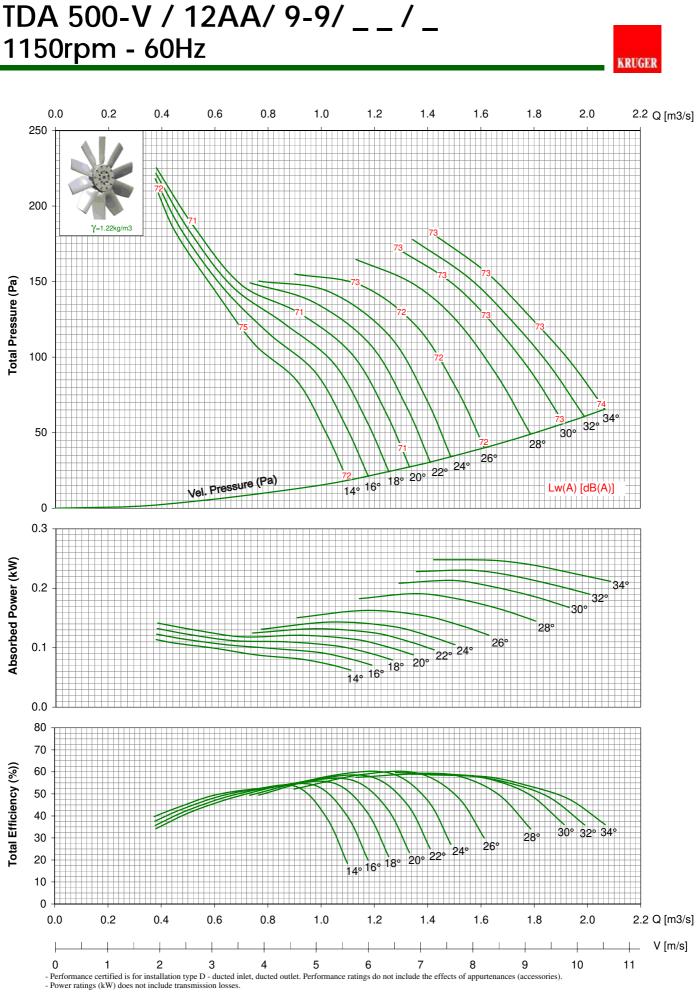






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 The AMCA Certified Ratings Seal applies to air performance only. dBA levels are not licensed by AMCA international.

#### TDA 500-V / 12AA/ 9-9/ \_ / \_ 2850rpm - 50Hz KRUGER 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 0.0 5.5 Q [m3/s] 1500 1200 900 Total Pressure (Pa) 600 34 32° 30° 300 28° 26° 18° 20° 22° 24° Pressure (Pa) 16° 14° Lw(A) [dB(A)]Vel. 0 0.3 Absorbed Power (kW) 34 0.2 32° 30° 28° 14° 16° 20° 22° 24° 26 0.1 0.0 80 70 Total Efficiency (%)) 60 50 40 30° 32° 34° 28° 30 26° 18° 20° 22° 24° 20 16° 14° 10 0 0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 Q [m3/s] V [m/s] 0 5 10 15 20 25 Performance certified is for installation type D - ducted inlet, ducted outlet. Perform Power ratings (kW) does not include transmission losses. e ratings do not include the effects of appurtenances (accessories).



#### TDA 500-V / 12AA/ 9-9/ \_ / \_ 1750rpm - 60Hz KRUGER 0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 Q [m3/s] 600 500 400 Total Pressure (Pa) 300 200 34 32° 30° 100 28° 14° 16° 18° 20° 22° 24° 26° Vel. Pressure (Pa Lw(A) [dB(A)]0 2.0 Absorbed Power (kW) 1.6 34° 1.2 32 30° 0.8 14° 16° 18° 20° 22° 24° 26° 0.4 0.0 80 70 Total Efficiency (%)) 60 50 40 30° 32° 34' 30 28° 26° 22° 24° 14º 16º 18º 20º 20 10 0 0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 Q [m3/s] V [m/s] 0 2 6 8 16 10 12 14 4 Performance certified is for installation type D - ducted inlet, ducted outlet. Perform Power ratings (KW) does not include transmission losses. ratings do not include the effects of appurtenances (accessories).







Kruger\* certifies that the TDA 560 -V 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.

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- \*Kruger Ventilation Industries (North India) Pvt. Ltd \*Kruger Ventilation Industries (Thailand) Co., Ltd
- \*Kruvent Industries (M) Sdn. Bhd
- \*P.T. Kruger Ventilation Indonesia
- \*Shanghai Kruger Ventilation Co., Ltd
- \*Wuhan Kruger Ventilation Co., Ltd

# Series TDA-V

#### Features

For commercial and industrial applications where large volumes of air are required at moderate to high pressure, special designed integral straightening vanes, reduced turbulence, provide high performance and low sound level.

#### Construction

Double flanged casing is produced in mild steel or galvanised Steel, the impeller having manually adjustable pitch aerofoil blades is made of PPG, PAG or pressurecasted Aluminium.

#### Finish

Available in standard finishes of galvanisation or painting.

#### **Operating Temperature**

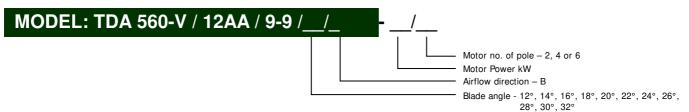
-20°C to +55°C

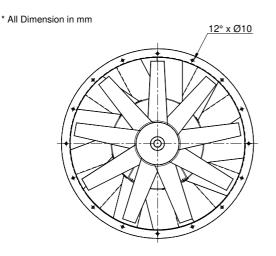
#### Motors

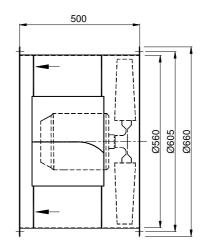
Totally enclosed Class 'F' motor, to a min. IP54 protection are fitted as standard. Standard motor up to 2.2kW are usually supplied on DOL starting, motor 3.0kW and above are star/delta starting.

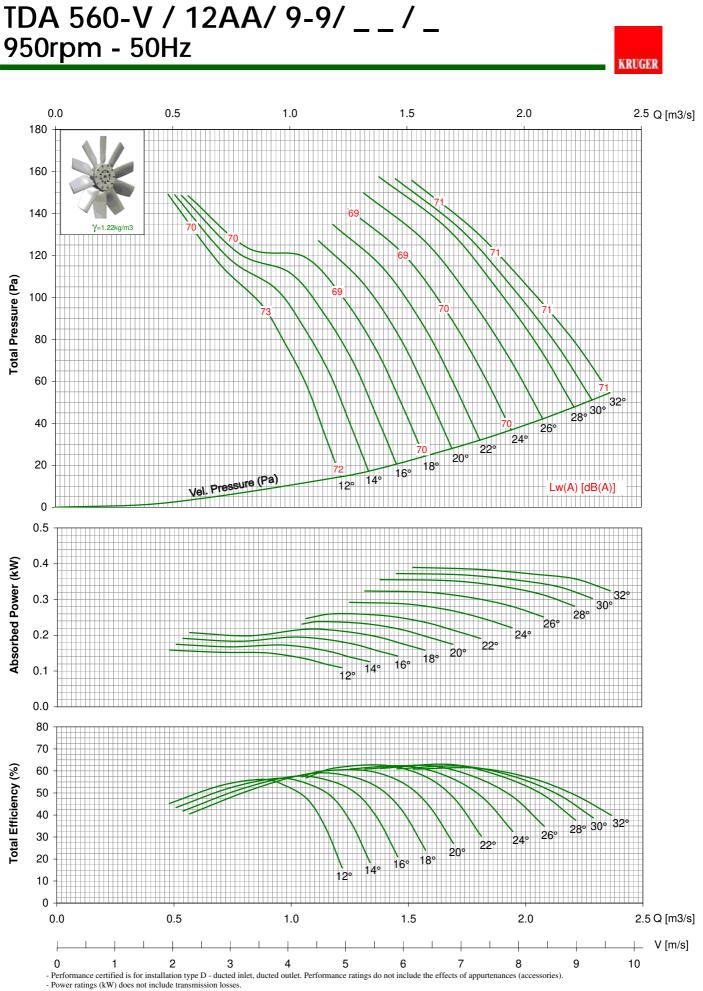
#### **Airflow Direction**

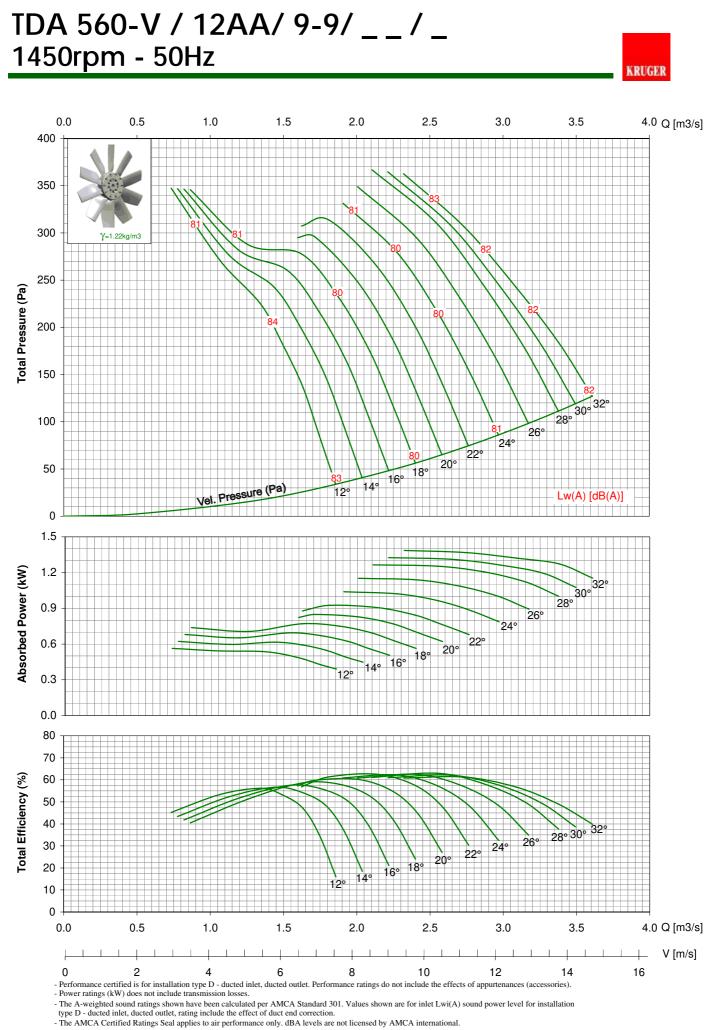
Air flowing from impeller to motor is fitted as standard.

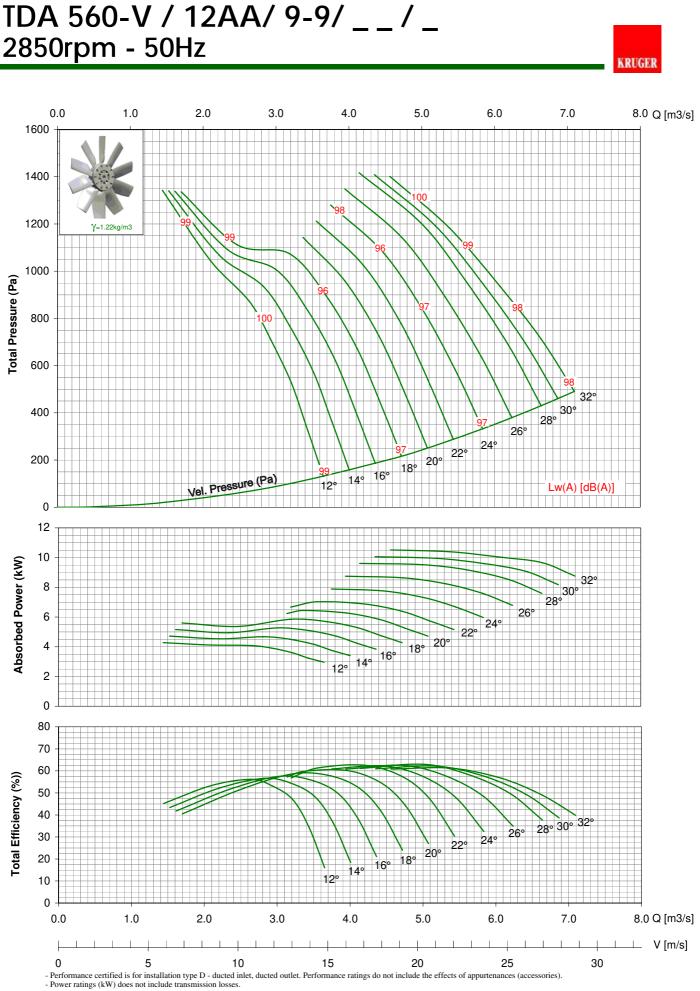












- The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.

- The AMCA Certified Ratings Seal applies to air performance only. dBA levels are not licensed by AMCA international.

TDA 560-V / 12AA/ 9-9/ \_ / \_ 1150rpm - 60Hz KRUGER 0.5 1.0 0.0 1.5 2.0 2.5 3.0 Q [m3/s] 250 200 V=1 22kc 150 Fotal Pressure (Pa) 100 32 30° 28° 26° 50 24° 22° 20° 18° 16° Vel. Pressure (Pa) 14° 12° Lw(A) [dB(A)]0 0.8 0.7 Absorbed Power (kW) 0.6 <u>}</u> 30° 30° 0.5 28° 26° 0.4 24° 0.3 22° 20° 18° 16° 0.2 14° 12° 0.1 0.0 80 70 Total Efficiency (%) 60 50 40 26° 28° 30° 32° 30 24° 22° 20° 20 18° 16° 14° 12° 10 0 3.0 Q [m3/s] 0.0 0.5 1.0 1.5 2.0 2.5 V [m/s] 0 2 3 5 6 8 10 12 1 4 7 9 11 - Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

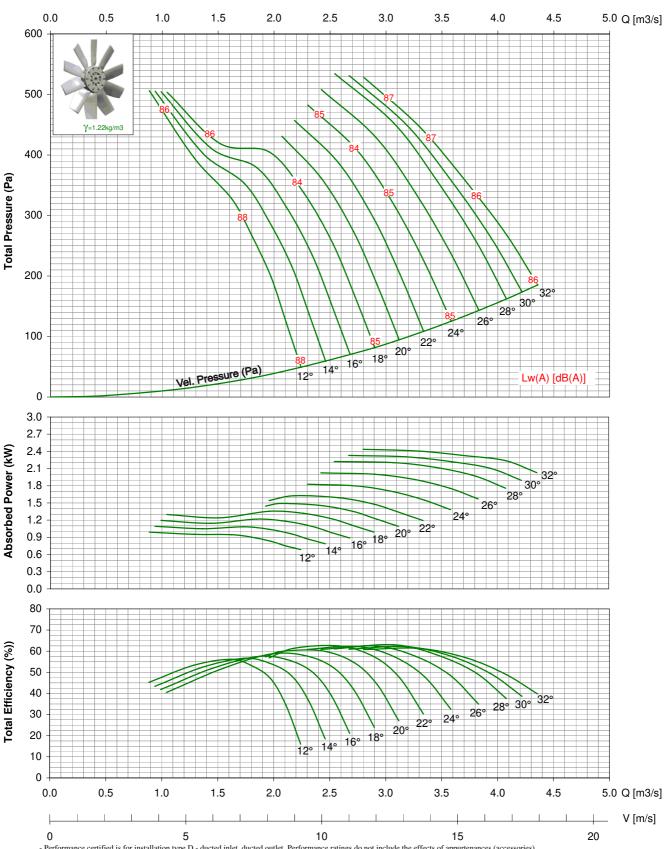
- Power ratings (kW) does not include transmission losses.

- The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.

- The AMCA Certified Ratings Seal applies to air performance only. dBA levels are not licensed by AMCA international.

TDA 560-V / 12AA/ 9-9/ \_ / \_ 1750rpm - 60Hz





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

The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.
 The AMCA Certified Ratings Seal applies to air performance only. dBA levels are not licensed by AMCA international.



### VANE AXIAL FAN **DIRECT DRIVEN**





Kruger\* certifies that the TDA 630 -V 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.

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- \*P.T. Kruger Ventilation Indonesia
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## Series TDA-V

#### Features

For commercial and industrial applications where large volumes of air are required at moderate to high pressure, special designed integral straightening vanes, reduced turbulence, provide high performance and low sound level.

#### Construction

Double flanged casing is produced in mild steel or galvanised Steel, the impeller having manually adjustable pitch aerofoil blades is made of PPG, PAG or pressurecasted Aluminium.

#### Finish

Available in standard finishes of galvanisation or painting.

#### **Operating Temperature**

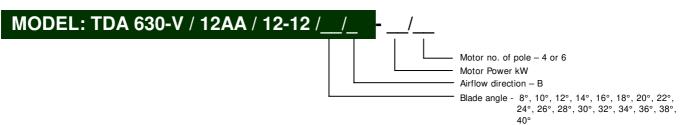
-20°C to +55°C

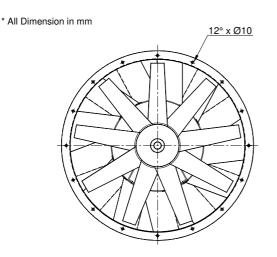
#### Motors

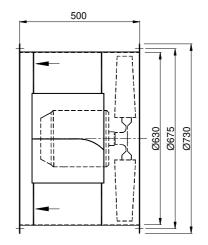
Totally enclosed Class 'F' motor, to a min. IP54 protection are fitted as standard. Standard motor up to 2.2kW are usually supplied on DOL starting, motor 3.0kW and above are star/delta starting.

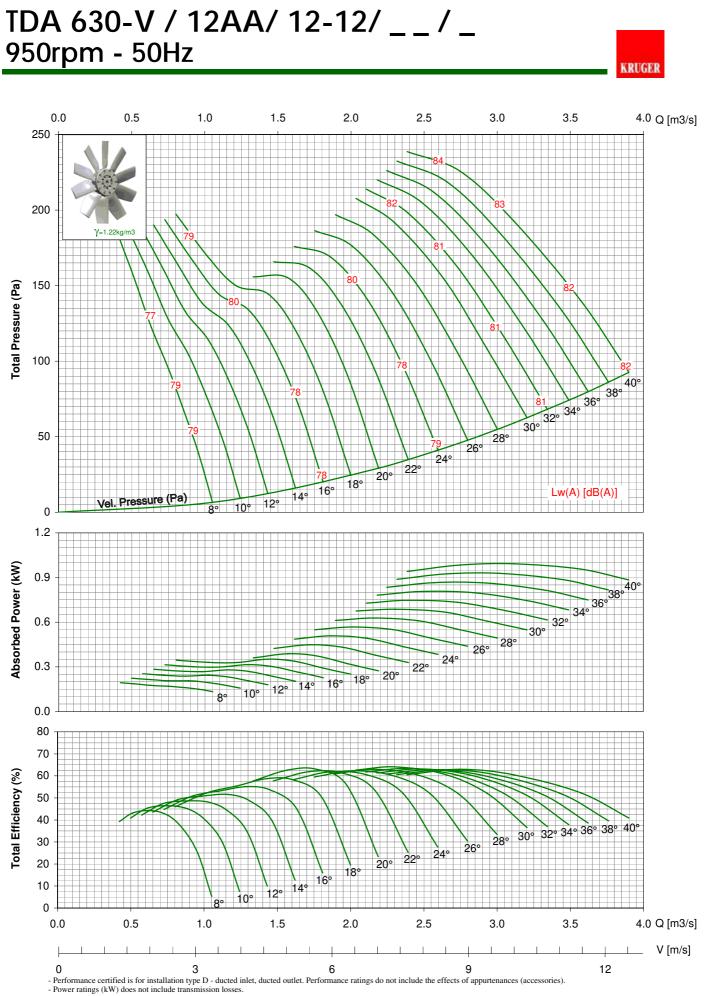
#### **Airflow Direction**

Air flowing from impeller to motor is fitted as standard.

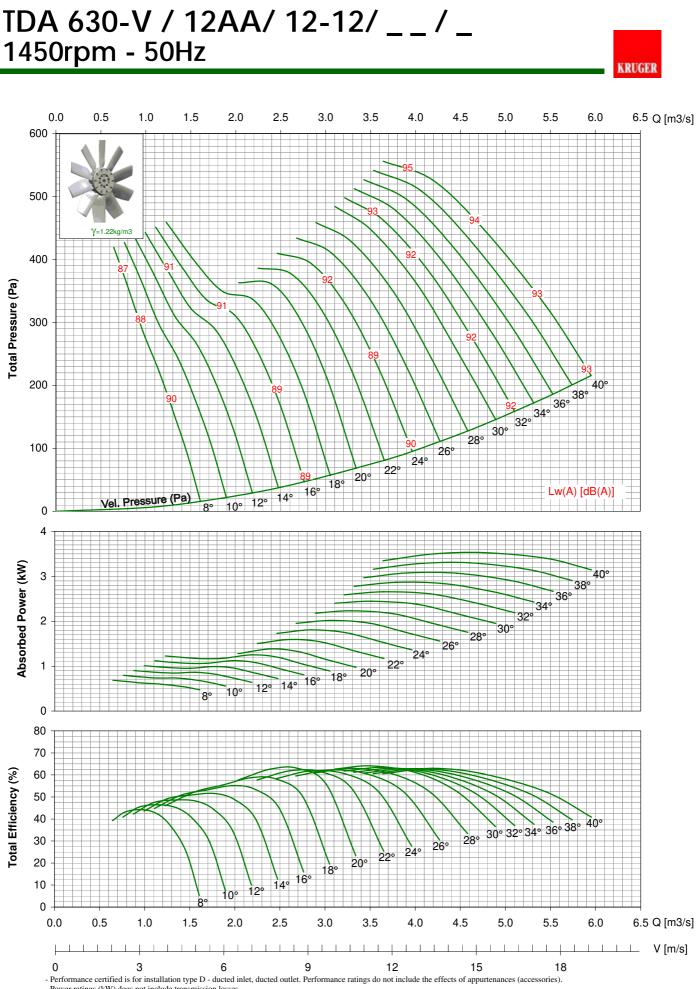






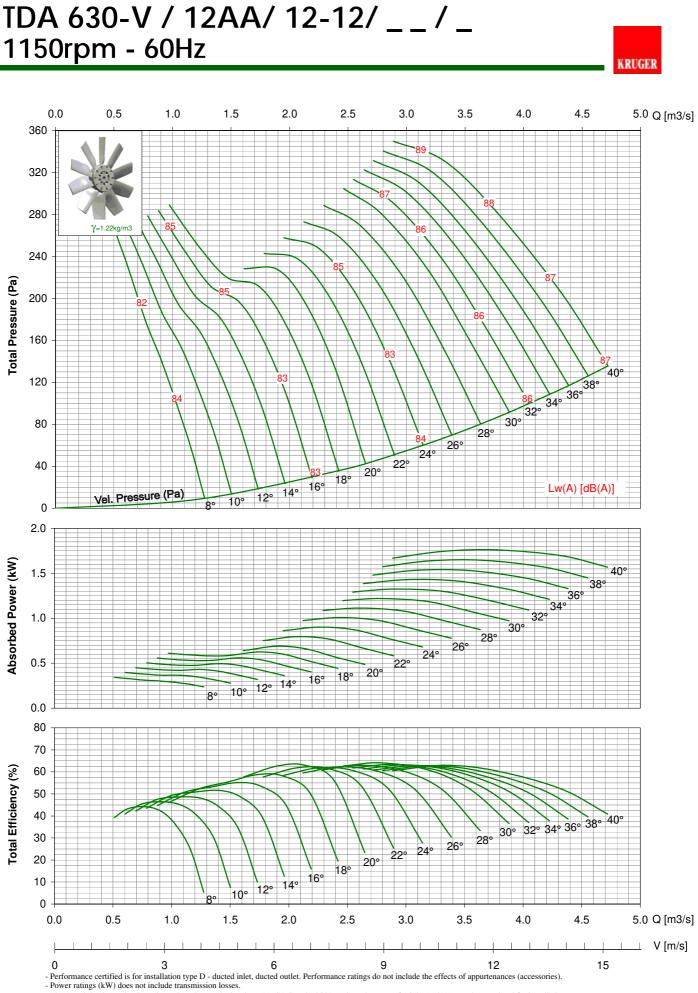


<sup>-</sup> The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.

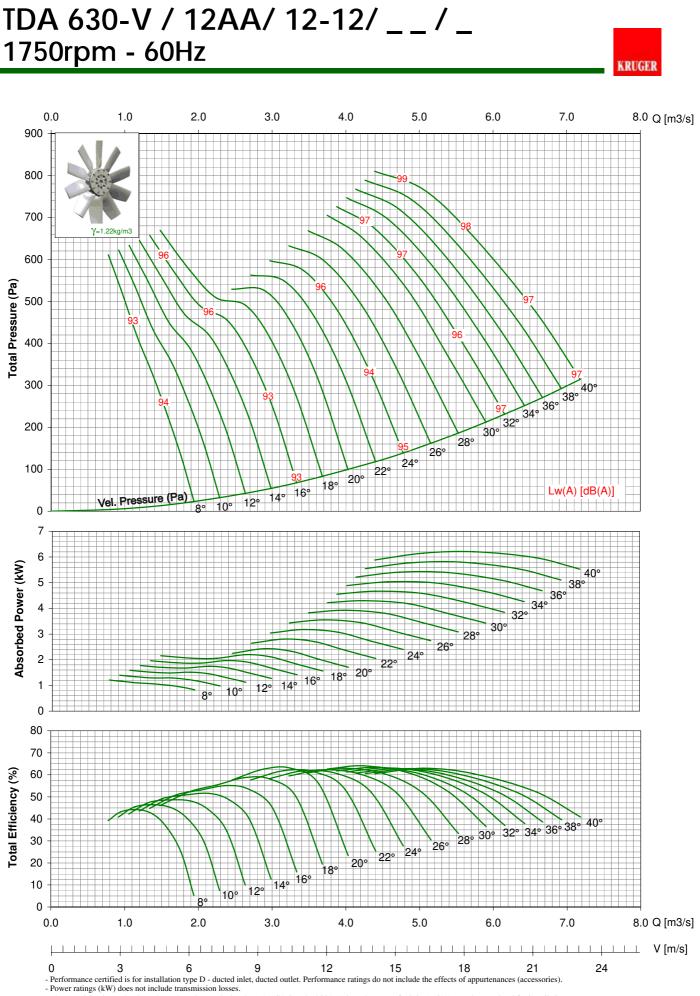


<sup>-</sup> Power ratings (kW) does not include transmission losses.

- The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.



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The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.
 The AMCA Certified Ratings Seal applies to air performance only. dBA levels are not licensed by AMCA international.



### VANE AXIAL FAN **DIRECT DRIVEN**





Kruger\* certifies that the TDA 710 -V 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.

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- \*Kruger Ventilation Industries (Thailand) Co., Ltd
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- \*Shanghai Kruger Ventilation Co., Ltd
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# Series TDA-V

#### Features

For commercial and industrial applications where large volumes of air are required at moderate to high pressure, special designed integral straightening vanes, reduced turbulence, provide high performance and low sound level.

#### Construction

Double flanged casing is produced in mild steel or galvanised Steel, the impeller having manually adjustable pitch aerofoil blades is made of PPG, PAG or pressurecasted Aluminium.

#### Finish

Available in standard finishes of galvanisation or painting.

#### **Operating Temperature**

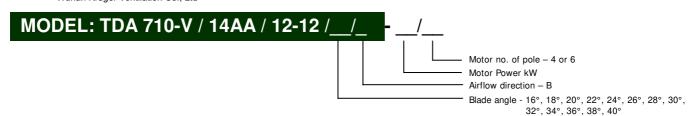
-20°C to +55°C

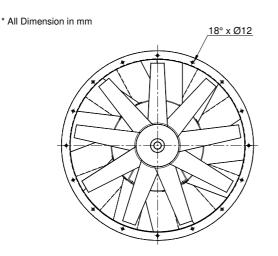
#### Motors

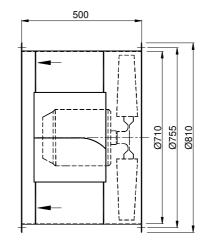
Totally enclosed Class 'F' motor, to a min. IP54 protection are fitted as standard. Standard motor up to 2.2kW are usually supplied on DOL starting, motor 3.0kW and above are star/delta starting.

#### **Airflow Direction**

Air flowing from impeller to motor is fitted as standard.







TDA 710-V / 14AA/ 12-12/ \_ / \_ 950rpm - 50Hz

2 3 5 0 1 4 6 Q [m3/s] 350 300 84 250 Total Pressure (Pa) 200 150 32° 34° 36° 38° 40° 100 22° 24° 26° 28° 30° 50 20° 18° Vel. Pressure (Pa) 16° Lw(A) [dB(A)]0 2.5 Absorbed Power (kW) 2.0 40° 38 1.5 -<u>34</u>° 36° 20° 22° 24° 1.0 0.5 18° 16° 0.0 80 70 Total Efficiency (%) 60 50 40 40 30° <sub>32°</sub> 34° 36° 38° 22° 24° 26° 28° 30 20° 18° 16° 20 10 0 1 2 3 5 6 Q [m3/s] 0 4 ∟ V [m/s] 14 2 0 6 8 10 12 4 Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
 Power ratings (kW) does not include transmission losses.

- The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation

type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.
 The AMCA Certified Ratings Seal applies to air performance only. dBA levels are not licensed by AMCA international.

#### TDA 710-V / 14AA/ 12-12/ \_ / \_ 1450rpm - 50Hz KRUGER 9 Q [m3/s] V=1 22 Total Pressure (Pa) 32° 32° 40° 20° 22° 24° 26° 28° 18° Vel. Pressure (Pa) 16° Lw(A) [dB(A)]40° 38° Absorbed Power (kW) 36° 20° 22° 24° 26° 28° 30° **`**34° 18° 16° Total Efficiency (%) 20° 22° 24° 26° 28° 30° 32° 34° 36° 38° 40° 18° 16° 9 Q [m3/s] V [m/s]

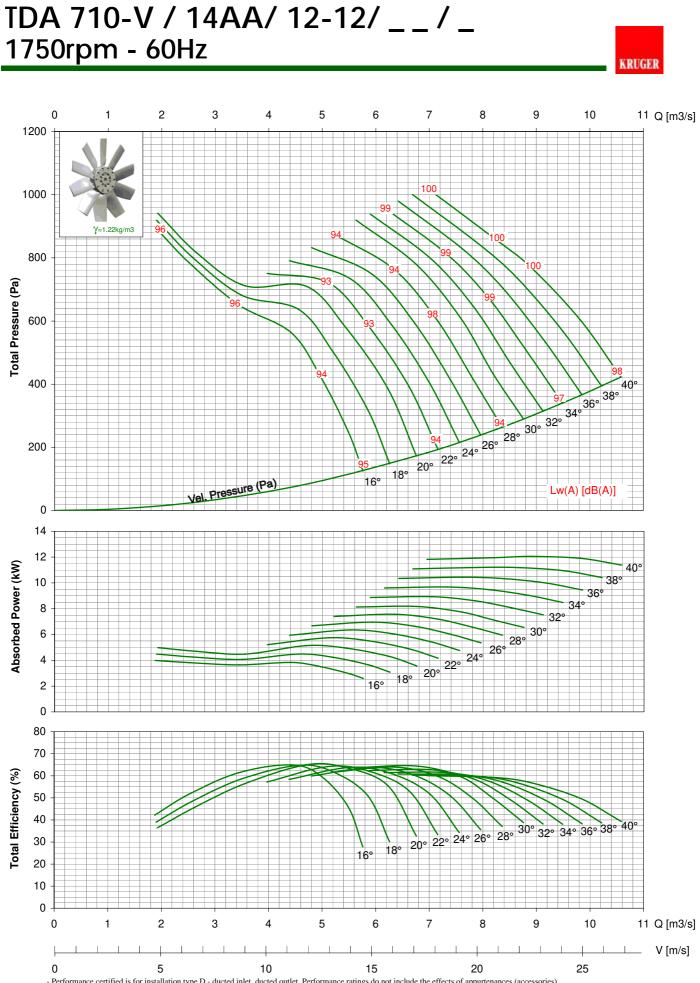
Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
 Power ratings (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.
The AMCA Certified Ratings Seal applies to air performance only. dBA levels are not licensed by AMCA international.

#### TDA 710-V / 14AA/ 12-12/ \_ / \_ 1150rpm - 60Hz KRUGER 2 3 5 6 0 1 4 7 8 Q [m3/s] 500 450 400 350 300 Total Pressure (Pa) 250 200 ,28° ,28° 40° 150 100 24° 26° 20° 22° 16° 18° 50 Vel. Pressure (Pa) Lw(A) [dB(A)] 0 4.0 Absorbed Power (kW) 40° 3.0 38° 36° 34 24° 26° 28° 32° 2.0 22° 1.0 20° 18° 16 0.0 80 70 Total Efficiency (%) 60 50 40 20 22 24 26 28 30 32 34 36 38 40° 30 18° 16° 20 10 0 2 7 0 1 3 4 5 6 8 Q [m3/s] V [m/s] 20 0 10 15 5

 Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not inc
 Power ratings (kW) does not include transmission losses. lude the effects of appurtenances (accessories).

The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.
The AMCA Certified Ratings Seal applies to air performance only. dBA levels are not licensed by AMCA international.



 Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
 Power ratings (kW) does not include transmission losses. - The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation

type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.
 The AMCA Certified Ratings Seal applies to air performance only. dBA levels are not licensed by AMCA international.



# VANE AXIAL FAN DIRECT DRIVEN





Kruger\* certifies that the TDA 800 -V 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.

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## Series TDA-V

#### Features

For commercial and industrial applications where large volumes of air are required at moderate to high pressure, special designed integral straightening vanes, reduced turbulence, provide high performance and low sound level.

#### Construction

Double flanged casing is produced in mild steel or galvanised Steel, the impeller having manually adjustable pitch aerofoil blades is made of PPG, PAG or pressurecasted Aluminium.

#### Finish

Available in standard finishes of galvanisation or painting.

#### **Operating Temperature**

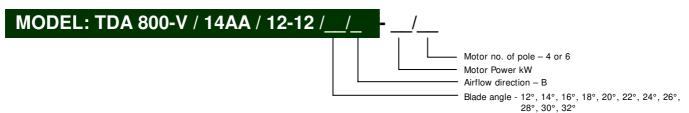
-20°C to +55°C

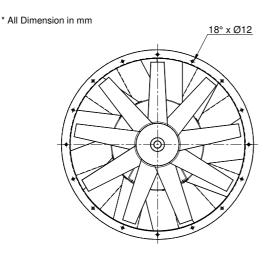
#### Motors

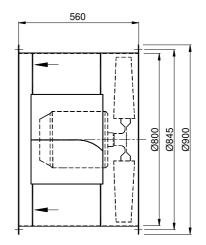
Totally enclosed Class 'F' motor, to a min. IP54 protection are fitted as standard. Standard motor up to 2.2kW are usually supplied on DOL starting, motor 3.0kW and above are star/delta starting.

#### **Airflow Direction**

Air flowing from impeller to motor is fitted as standard.

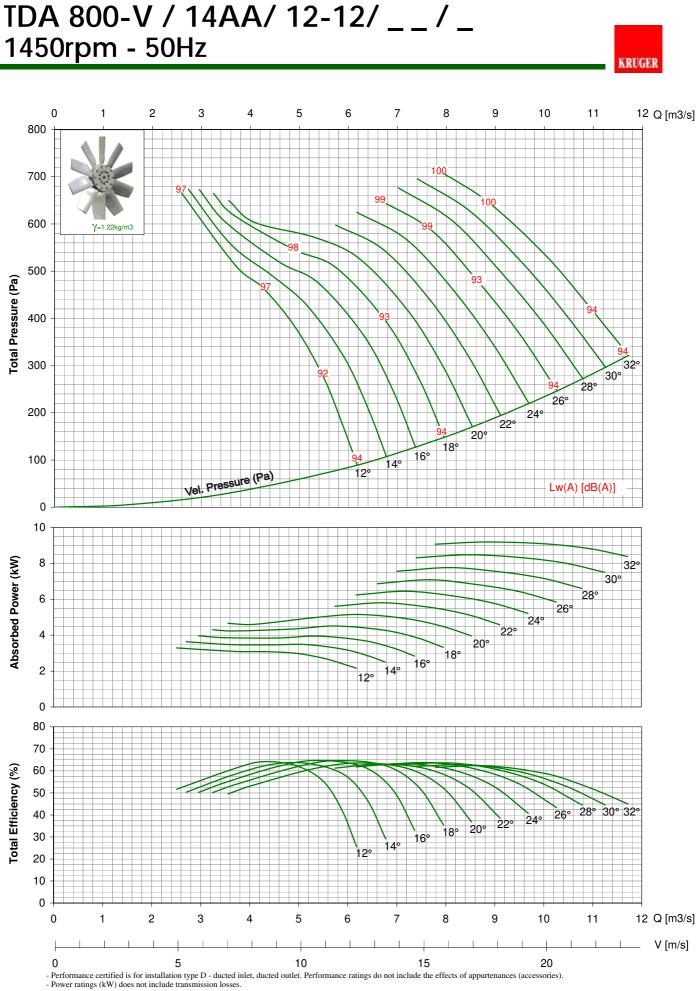




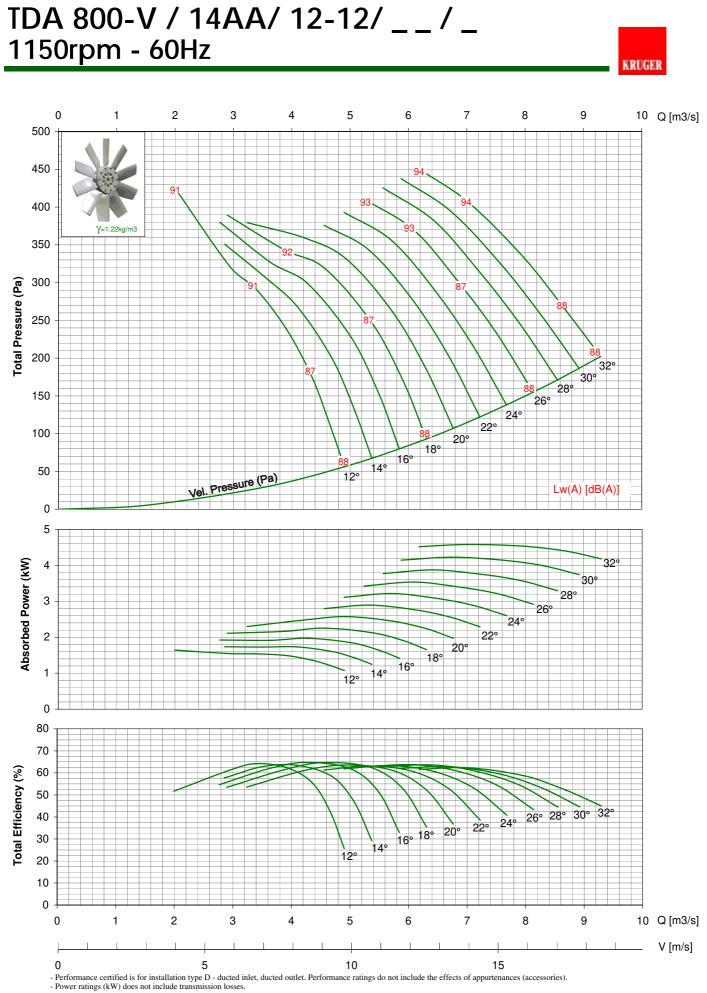


TDA 800-V / 14AA/ 12-12/ \_ / \_ 950rpm - 50Hz KRUGER 3 0 1 2 5 6 7 8 Q [m3/s] 4 350 89 300 250 Total Pressure (Pa) 200 150 32 30° 28° 100 26° 24° 22° 20° 18° 50 16° 14° 12° (Pa) Vel. Pressure Lw(A) [dB(A)]0 3 Absorbed Power (kW) 329 30° 2 28° 26 24° 22 20° 1 18° 16° 4° 12° 0 80 70 Total Efficiency (%) 60 50 28° 30° 32' 40 26° 24 22 20° 18° 30 16° 14° 12° 20 10 0 2 Q [m3/s] 0 4 6 8 V [m/s] 6 8 10 0 2 4 12 14 Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
 Power ratings (kW) does not include transmission losses.

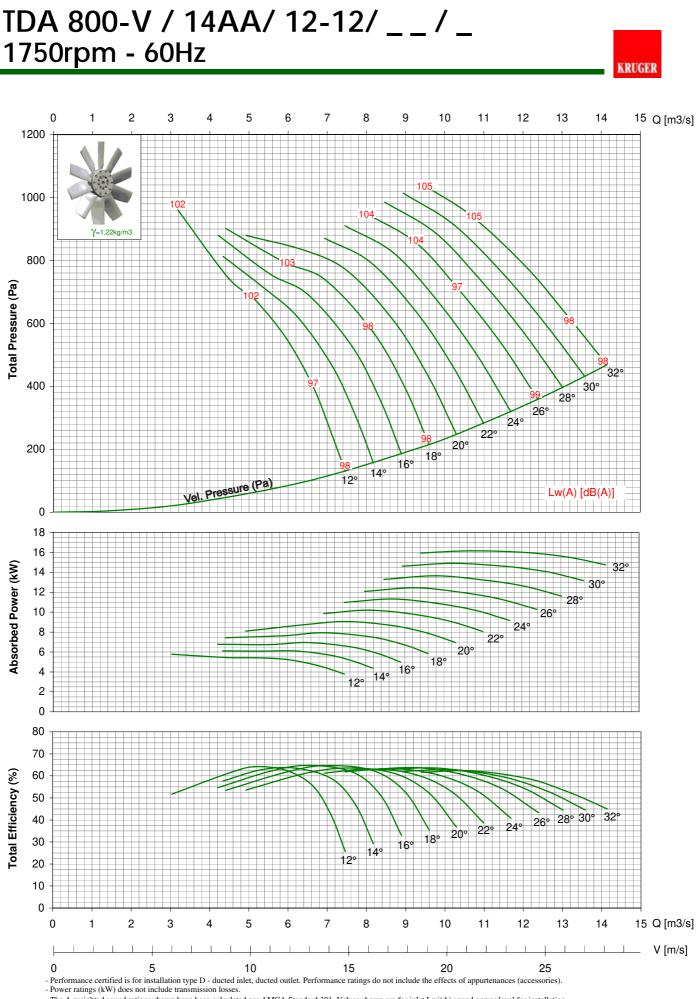




- The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.



<sup>-</sup> The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.



- The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.



# VANE AXIAL FAN DIRECT DRIVEN





Kruger\* certifies that the TDA 900 -V 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.

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\*P.T. Kruger Ventilation Indonesia

\*Shanghai Kruger Ventilation Co., Ltd

\*Wuhan Kruger Ventilation Co., Ltd

## Series TDA-V

#### Features

For commercial and industrial applications where large volumes of air are required at moderate to high pressure, special designed integral straightening vanes, reduced turbulence, provide high performance and low sound level.

#### Construction

Double flanged casing is produced in mild steel or galvanised Steel, the impeller having manually adjustable pitch aerofoil blades is made of PPG, PAG or pressurecasted Aluminium.

#### Finish

Available in standard finishes of galvanisation or painting.

#### **Operating Temperature**

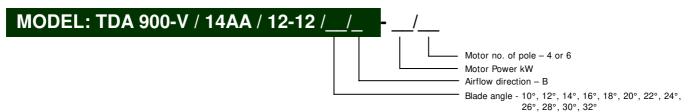
-20°C to +55°C

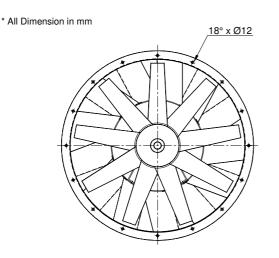
#### Motors

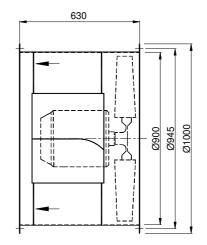
Totally enclosed Class 'F' motor, to a min. IP54 protection are fitted as standard. Standard motor up to 2.2kW are usually supplied on DOL starting, motor 3.0kW and above are star/delta starting.

#### **Airflow Direction**

Air flowing from impeller to motor is fitted as standard.







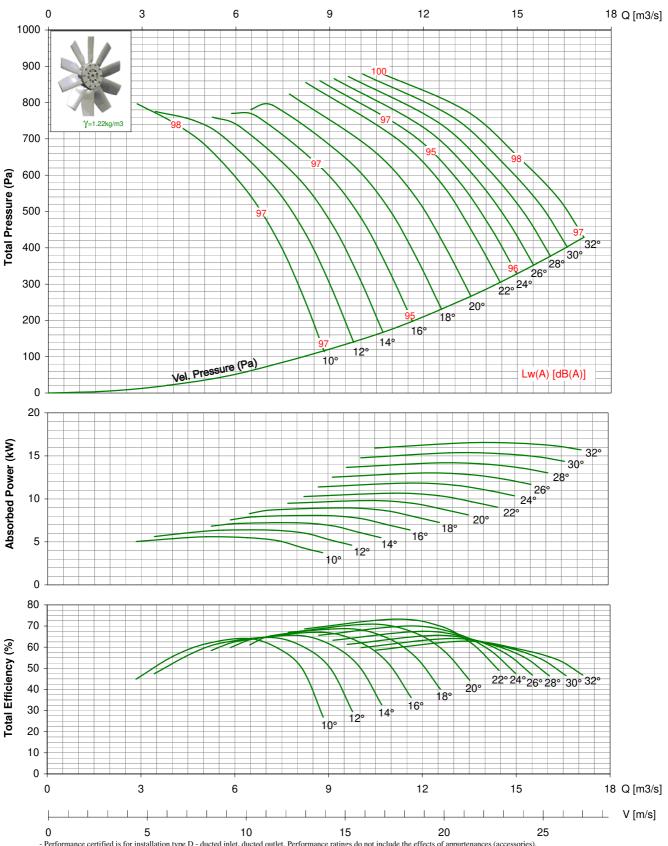
#### TDA 900-V / 14AA/ 12-12/ \_ / \_ 950rpm - 50Hz KRUGER 3 10 0 2 4 5 6 7 8 9 11 12 Q [m3/s] 1 450 400 350 300 26° 30° 32 150 24° 22° 20° 100 18° 16° 14° 50 12° Vel. Pressure (Pa) 10° Lw(A) [dB(A)]0 6 5 Absorbed Power (kW) 32 4 30° 28° 26° 3 24° . 22° 2 20° 18° 16° 14° 1 12° 10° 0 80 70 Total Efficiency (%) 60 50 22° 24° 26° 28° 30° 32° 20° 40 18° . 16° 30 14° 12° 10° 20 10 0 0 1 2 3 4 5 6 7 8 9 10 11 12 Q [m3/s]

0 5 10 15 Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
 Power ratings (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.
 The AMCA Certified Ratings Seal applies to air performance only. dBA levels are not licensed by AMCA international.

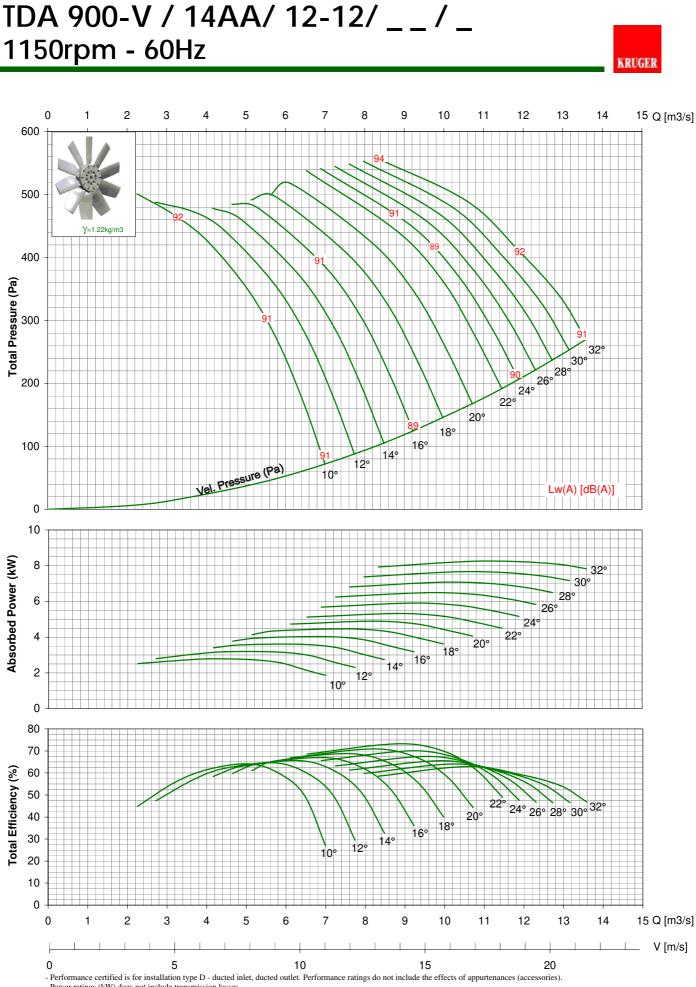
V [m/s]





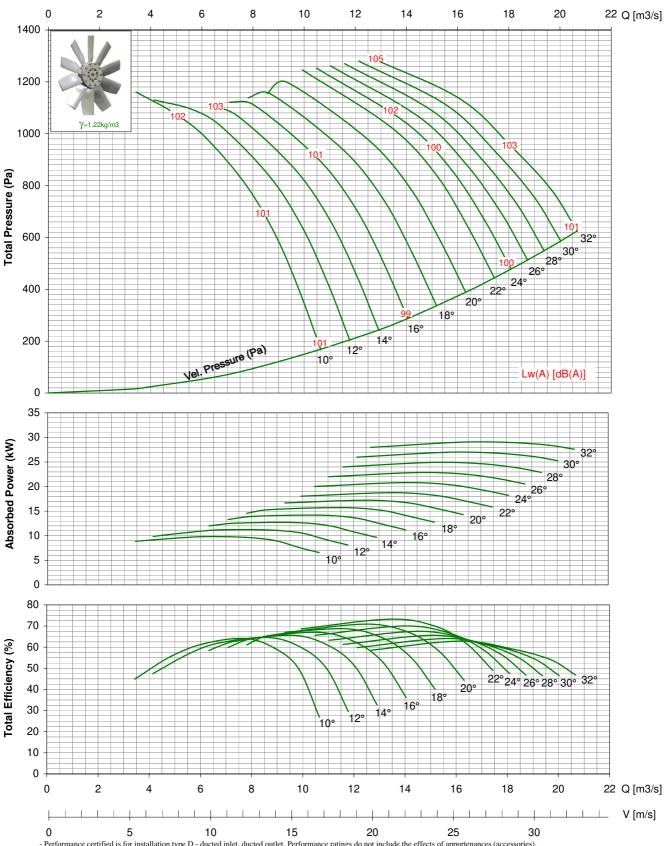
Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
 Power ratings (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.
 The AMCA Certified Ratings Seal applies to air performance only. dBA levels are not licensed by AMCA international.



Promance retined is for installation type D - ducted ninet, ducted outlet. Performance ratings do not include the effects of appurchances (accessories).
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 The AMCA Certified Ratings Seal applies to air performance only. dBA levels are not licensed by AMCA international.





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

The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.
 The AMCA Certified Ratings Seal applies to air performance only. dBA levels are not licensed by AMCA international.



### VANE AXIAL FAN **DIRECT DRIVEN**





Kruger\* certifies that the TDA 1000 -V 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

\*Kruger Ventilation Industries Asia Co., Ltd \*Guangzhou Kruger Ventilation Co., Ltd

- \*Kruger Ventilation (Taiwan) Co., Ltd
- \*Kruger Ventilation Industries (Vietnam) Co., Ltd
- \*Kruger Ventilation Industries (India) Pvt. Ltd \*Kruger Ventilation Industries (North India) Pvt. Ltd \*Kruger Ventilation Industries (North India) Pvt. Ltd
- \*Kruvent Industries (M) Sdn. Bhd
- \*P.T. Kruger Ventilation Indonesia
- \*Shanghai Kruger Ventilation Co., Ltd \*Wuhan Kruger Ventilation Co., Ltd

# Series TDA-V

#### Features

For commercial and industrial applications where large volumes of air are required at moderate to high pressure, special designed integral straightening vanes, reduced turbulence, provide high performance and low sound level.

#### Construction

Double flanged casing is produced in mild steel or galvanised Steel, the impeller having manually adjustable pitch aerofoil blades is made of PPG, PAG or pressurecasted Aluminium.

#### Finish

Available in standard finishes of galvanisation or painting.

#### **Operating Temperature**

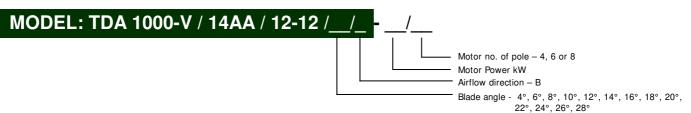
-20°C to +55°C

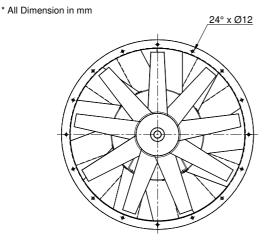
#### Motors

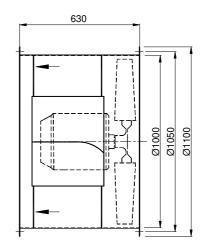
Totally enclosed Class 'F' motor, to a min. IP54 protection are fitted as standard. Standard motor up to 2.2kW are usually supplied on DOL starting, motor 3.0kW and above are star/delta starting.

#### **Airflow Direction**

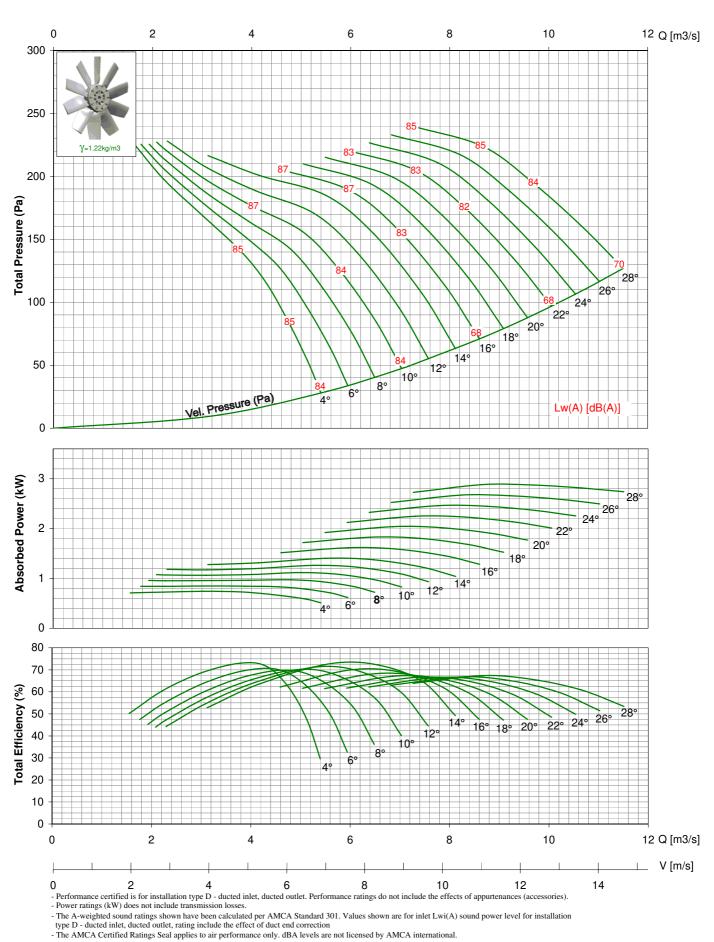
Air flowing from impeller to motor is fitted as standard.







### TDA 1000-V / 14AA/ 12-12/ \_ / \_ 725rpm - 50Hz

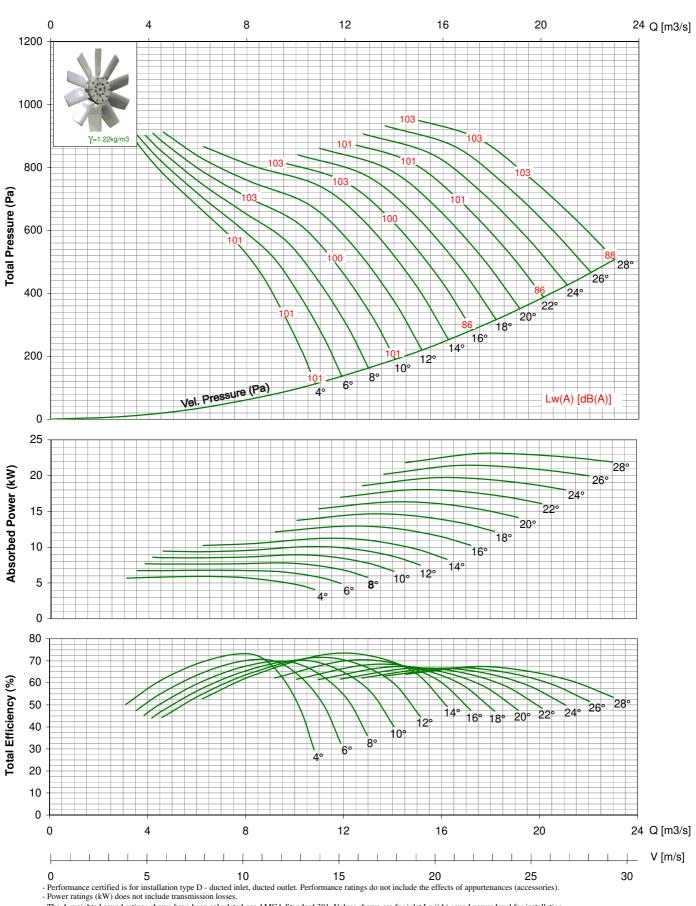


#### TDA 1000-V / 14AA/ 12-12/ \_ / \_ 950rpm - 50Hz KRUGER 2 6 8 10 12 14 0 4 16 Q [m3/s] 450 400 350 300 Total Pressure (Pa) 250 200 26° 24° 150 22° 20° 18° 16° 100 14° 12° 10° 8° 50 sure (Pa) 6° 4° [dB(A)] 0 8 Absorbed Power (kW) 28° 6 26 22 4 20° 18<sup>°</sup> 16° 2 14° 12° 10° 8° 6° Δ٥ 0 80 70 Total Efficiency (%) 60 50 26° 28° 16° 18° 20° 14° 22° 24° 12° 40 10° 8° 30 6° 20 10 0 2 0 4 6 8 10 12 14 16 Q [m3/s] V [m/s] 20 10 0 5 15

 Performance certified is for installation type D - ducted inlet, ducted outlet. Perform
 Power ratings (kW) does not include transmission losses. ance ratings effects of appurtenances (accessories).

The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction
 The AMCA Certified Ratings Seal applies to air performance only. dBA levels are not licensed by AMCA international.

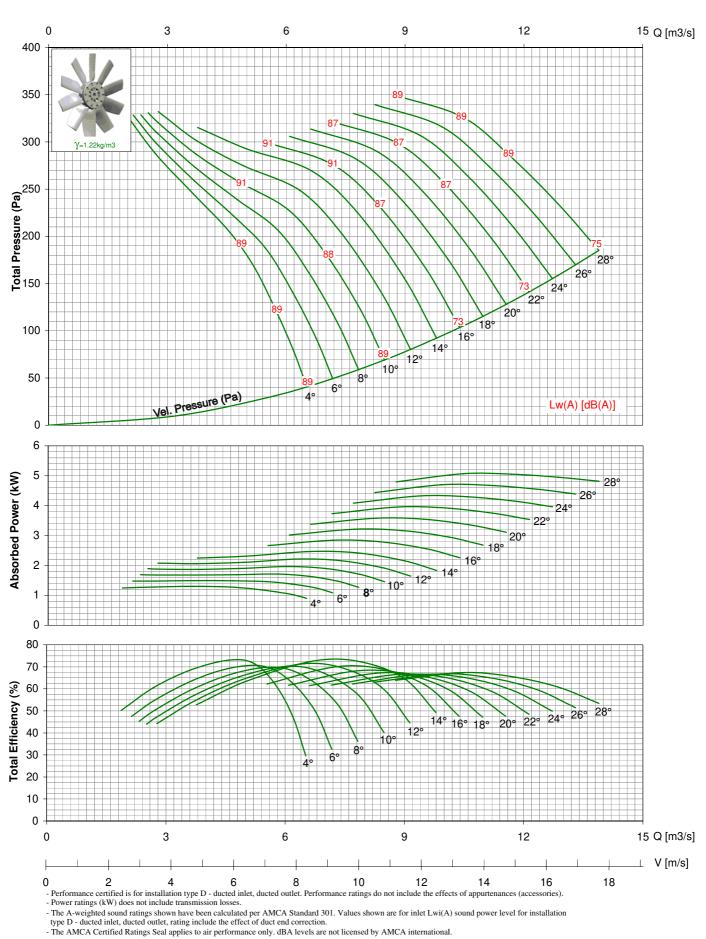
### TDA 1000-V / 14AA/ 12-12/ \_ / \_ 1450rpm - 50Hz



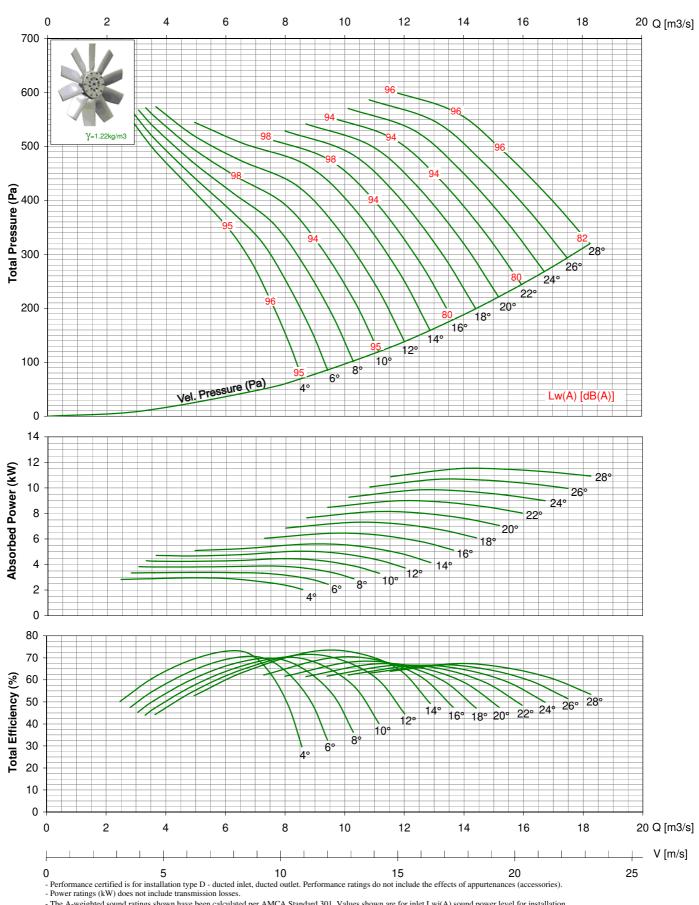
KRUGER

The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.
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### TDA 1000-V / 14AA/ 12-12/ \_ / \_ 875rpm - 60Hz

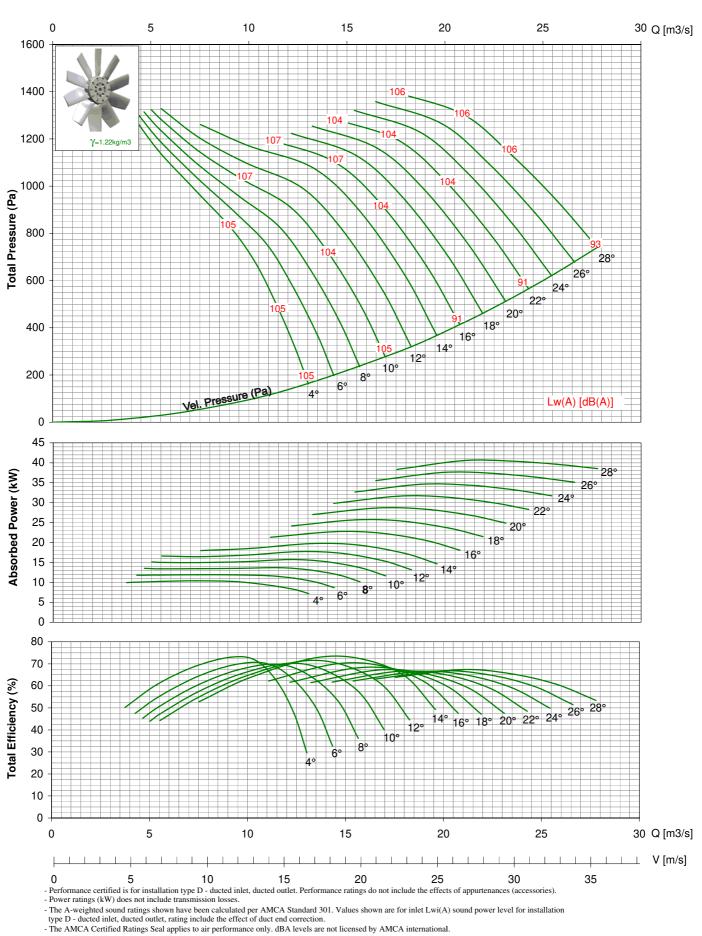


TDA 1000-V / 14AA/ 12-12/ \_ / \_ 1150rpm - 60Hz



The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.
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### TDA 1000-V / 14AA/ 12-12/ \_ / \_ 1750rpm - 60Hz





### VANE AXIAL FAN **DIRECT DRIVEN**





Kruger\* certifies that the TDA 1120 -V 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.

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- \*P.T. Kruger Ventilation Indonesia
- \*Shanghai Kruger Ventilation Co., Ltd \*Wuhan Kruger Ventilation Co., Ltd

# Series TDA-V

#### Features

For commercial and industrial applications where large volumes of air are required at moderate to high pressure, special designed integral straightening vanes, reduced turbulence, provide high performance and low sound level.

#### Construction

Double flanged casing is produced in mild steel or galvanised Steel, the impeller having manually adjustable pitch aerofoil blades is made of PPG, PAG or pressurecasted Aluminium.

#### Finish

Available in standard finishes of galvanisation or painting.

#### **Operating Temperature**

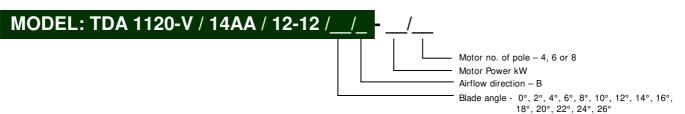
-20°C to +55°C

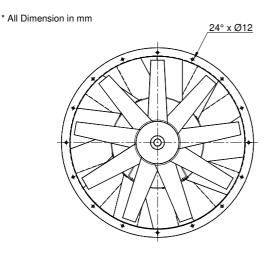
#### Motors

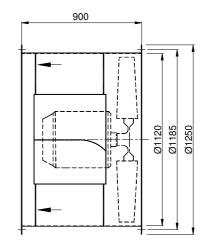
Totally enclosed Class 'F' motor, to a min. IP54 protection are fitted as standard. Standard motor up to 2.2kW are usually supplied on DOL starting, motor 3.0kW and above are star/delta starting.

#### **Airflow Direction**

Air flowing from impeller to motor is fitted as standard.







TDA 1120-V / 14AA/ 12-12/ \_ / \_ 725rpm - 50Hz KRUGER 2 6 8 10 12 14 0 16 Q [m3/s] 4 300 250 γ=1.22kg/m3 200 Total Pressure (Pa) 150 26 24° 22° 100 20° 18° 16° 14° 12 50 10° 8° 6° 4° sure (Pa) 2° 0° Lw(A) [dB(A)] pres 0 5 Absorbed Power (kW) 26° 4 24° 22 3 20° 18° 16° 2 14° 12° 10° **8**° 1 6° 4° 2° 0° 0 80 70 Total Efficiency (%) 60 50 20. 22. 24. 26 18° 16 40 10° 8° 30 6° 4° 2° 20 0 10 0 2 0 4 6 8 10 12 14 16 Q [m3/s]



The A-weighted sound ratings flow have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.
 The AMCA Certified Ratings Seal applies to air performance only. dBA levels are not licensed by AMCA international.

V [m/s]

16

#### TDA 1120-V / 14AA/ 12-12/ \_ / \_ 950rpm - 50Hz KRUGER 0 2 6 8 10 12 14 16 18 20 Q [m3/s] 4 500 100 400 /=1.22kg/m3 **Total Pressure (Pa)** 000 000 002 26 24° 22° 20° 18° 16° 14° 12° 100 10° 8° 6° 4° Pressure (Pa 2° 0° Lw(A) [dB(A)] 0 12 Absorbed Power (kW) 10 26 8 24 22 20° 6 18° 16° 14° 4 - 10° 12° **8°** 2 6° 4° 2 0° 0 80 70 Total Efficiency (%) 60 50 22° 24° 26° 18° 20° 16° 40 12° 14° . 10° 8° 30 6° 4° 2° 20 0 10 0 2 6 0 4 8 10 12 14 16 18 20 Q [m3/s] V [m/s] 20 0 2 4 6 8 10 12 14 16 18

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

- Power ratings (kW) does not include transmission losses

The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.
The AMCA Certified Ratings Seal applies to air performance only. dBA levels are not licensed by AMCA international.

TDA 1120-V / 14AA/ 12-12/ \_ / \_ 1450rpm - 50Hz KRUGER 0 8 12 16 20 24 28 32 Q [m3/s] 4 1200 1000 γ=1.22kg/m3 800 Total Pressure (Pa) 600 26 24° 22° 20° 400 18° 16° 14° 12° 200 10° 8° -6° 4° Pressure (Pa) 2° 0° Lw(A) [dB(A)] 0 40 Absorbed Power (kW) 26° 30 24° 22 20 20 18° 16° 14° 12 10 6° 8° . 10° 4° 2 0° 0 80 70 Total Efficiency (%) 60 50 20° 22° 24° 26° Ì8⁰ 40 10 °8 30 6° 4 2° 20 0° 10 0

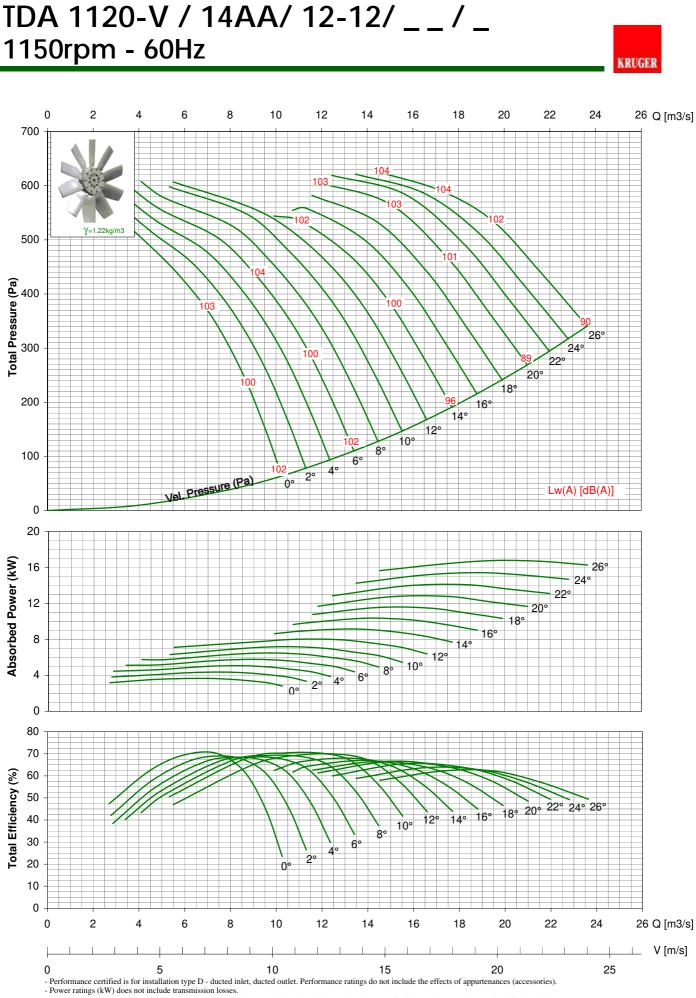
0 4 8 12 16 20 24 28 32 Q [m3/s] V [m/s] 0 5 10 15 20 25 30 - Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

- Power ratings (kW) does not include transmission losses

The A-weighted sound ratings flow have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.
 The AMCA Certified Ratings Seal applies to air performance only. dBA levels are not licensed by AMCA international.

#### TDA 1120-V / 14AA/ 12-12/ \_ / \_ 875rpm - 60Hz KRUGER 2 6 8 10 12 16 18 0 4 14 20 Q [m3/s] 400 350 300 1.22kg/m 250 Total Pressure (Pa) 200 26 24° 22° 150 20° 18° 16° 100 14° 12° 10° 8° 6° 50 4° 2° Pressure (Pa) 0° Lw(A) [dB(A)] Viel 0 8 26 Absorbed Power (kW) 24° 6 22° 20 18° 4 16° 14 12° 10° 2 8 6° 4° 2° **0**° 0 80 70 Total Efficiency (%) 60 50 20° 22° 24° 26° 18° 16 40 12° 40 10° 8° 30 6° 4° 29 20 0° 10 0 2 6 8 14 0 4 10 12 16 18 20 Q [m3/s] V [m/s] 20 0 5 10 15 Performance certified is for installation type D - ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power ratings (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.
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The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet Lwi(A) sound power level for installation type D - ducted inlet, ducted outlet, rating include the effect of duct end correction.
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### KRUGER GROUP (VENTILATION)

#### • THAILAND (Regional HQ)

#### KRUGER VENTILATION INDUSTRIES ASIA CO. LTD.

30/159 Moo 1, Sinsakorn Industrial Estate, Chetsadawithi Road, Khok Kham Mueng, Samuthsakorn 74000, Thailand Tel. + 662 1054298 - Fax + 662 0248256-9 Website: www.krugerfan.com

#### • CHINA (BEIJING)

#### **BEIJING KRUGER VENTILATION CO. LTD**

Level 7, A Block, Rising International Building, 29 JingHai San Road, BDA, Beijing, P.R.China 100176 Tel. + 86 10-67881366 - Fax + 86 10-67880566 Email: krugertj@krugertj.com

#### • CHINA (SHANGHAI)

#### SHANGHAI KRUGER VENTILATION CO. LTD

No. 500 Yuanguo Road, Anting, Jiading, Shanghai 201814 P.R. China Tel. + 86 21-69573266 - Fax + 86 21-69573296 Email: shkruger@krugerchina.com

#### • CHINA (WUHAN)

#### WUHAN KRUGER VENTILATION CO. LTD

No. 805, Huian Ave, Dongxihu District, Wuhan, Hubei, P.R. China 430000 Tel. + 86 27- 83248840/83060522/83097505 Fax + 86 27- 83261886 Email: whkruger@krugerwh.com

#### HONG KONG

#### KRUGER VENTILATION (HONG KONG) LIMITED

Flat C, 9/F, Yeung Yiu Chung (No.8) Industrial Building, 20 Wang Hoi Road, Kowloon Bay, Kowloon, Hong Kong Tel. + 852 22469182 - Fax + 852 22469187 Email: info@kruger.com.hk

#### • INDIA (NORTH)

#### KRUGER VENTILATION INDUSTRIES (NORTH INDIA) PVT LTD

Plot No. - 191, Sector - 59, Ballabgarh, Faridabad - 121 004, Haryana, India Tel. + 91-9958991660/9717449696 Fax. + 91-1294135820 Email: sales.kni@krugerindia.com

#### • KOREA

#### NEOMATE CO. LTD

2-1010, Ace High Tech City B/D, 775 Gyeongin-ro, Yeongdeungpo-gu, Seoul, Korea. Postal Code 07299 Tel. + 82-2-2679-2052 - Fax. + 82-2-2679-2174 Email: y7890@neomate.co.kr

#### • MYANMAR

#### KRUGER VENTILATION (MYANMAR) CO.LTD

Room No. F21, Thiri Yadanar Whole Sale Market, (Htawunbe) Toe Chae Ward, North Okkalapa Township, Yangon. Tel. + 959 763141081/2/3 Email: htoon@krugermm.com

#### SINGAPORE

#### KRUGER ENGINEERING PTE LTD

No. 10 Buroh Street #06-06, West Connect Building, Singapore 627564 Tel. + 65 68631191 - Fax + 65 68631151 Email: mktg@krugerasia.com

#### THAILAND

#### KRUGER VENTILATION IND. (THAILAND) CO. LTD

30/105 Moo 1, Sinsakorn Industrial Estate, Chetsadawithi Road, Khok Kham Mueng, Samuthsakorn 74000, Thailand Tel. + 662 1050399 - Fax + 662 1050370-2 Email: mktg@kruger.co.th

#### • AUSTRALIA

#### S&P-KRUGER AUSTRALIA PTY LTD

2 Cunningham St, Moorebank N.S.W. 2170 Tel. + 61 2-98227747 Fax. + 61 2-98227757 Email: info@sandpkruger.com.au

#### • CHINA (GUANGZHOU)

#### **GUANGZHOU KRUGER VENTILATION CO. LTD**

No. 9 Huahui Road, Huashan, Huadu, Guangzhou, P.R. China 510880 Tel. + 86 20-66356635 - Fax + 86 20-86786001/86786500 Email: gzkruger@krugergz.com

#### • CHINA (TIANJIN)

#### TIANJIN KRUGER VENTILATION CO. LTD

No.168 Anyuan Road, Jingjin Science and Technology Park Wuqing District, Tianjin, China Tel. + 86 22-22143480/3481 - Fax + 86 22-22143482 Email: krugertj@krugertj.com

#### • DUBAI

#### KRUGER VENTILATION INDUSTRIES, GULF BRANCH

Jebel Ali Free Zone Area (JAFZA) P.O. Box No. 262949, Dubai, UAE Tel. + 971 4 8819188/8832017 Fax. + 971 4 8832018

Email: johncs@krugerasia.com

#### • INDIA

#### KRUGER VENTILATION INDUSTRIES (INDIA) PVT LTD

Kruger Centre, Mumbai-Nasik Highway, Kalamgaon, Shahapur, Thane 421601, Maharashtra, India Tel. + 91 9960558899/9975577211 - Fax + 91 2527 240075 Email: sales@krugerindia.com

#### INDONESIA

#### P.T. KRUGER VENTILATION INDONESIA

JL. Teuku Umar No.20, Karawaci - Tangerang 15115, Indonesia Tel. + 62 21-5512288/5513557 - Fax + 62 21-5513502 Email: mktg@krugerindo.co.id

#### MALAYSIA

#### KRUVENT INDUSTRIES (M) SDN BHD

Lot 850, Jalan Subang 7, Taman Perindustrian Subang, 47500, Subang Jaya, Selangor D.E. Tel. + 603 80743399 - Fax + 603 80743388 Email: mktg@kruger.com.my

#### • PHILIPPINES

#### **KRUGER M&E INDUSTRIES CORPORATION**

FAPI Compound, E. Rodriguez Ave. Tunasan, Muntinlupa City 1773, Philippines Tel. + 63 2-8622892/4/6/7, 5534059 - Fax + 63 2-8622891 Email: mktg@krugerph.net

#### TAIPEI

#### KRUGER VENTILATION (TAIWAN) CO. LTD

No. 157, Ping-an Rd, Hengfeng Village, Dayuan Shiang Taoyuan County 337, Taiwan Tel. + 886 3-3859119 - Fax + 886 3-3859118 Email: sales@krugertwn.com.tw

#### VIETNAM

#### KRUGER VENTILATION INDUSTRIES (VIETNAM) CO. LTD

Lot A7. 2-4, C2 Road, Thanh Thanh Cong IZ, Trang Bang Dist. Tay Ninh Province, Vietnam Tel. +84-276 3585200/01/02 - Fax +84-276 3585199 Email: mktg@krugervn.com

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.

#### Kruger Ventilation Industries Asia Co., Ltd

30/159 Moo 1, Sinsakorn Industrial Estate Chetsadawithi Road, Khok Kham Mueng, Samuthsakorn 74000, Thailand Tel. +662 1054298 - Fax. +662 0248256-9 Website:www.krugerfan.com

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