

TA series  
Centrifugal Fans  
Self driven

**NICOTRA** | **Gebhardt**  
fan|tastic solutions



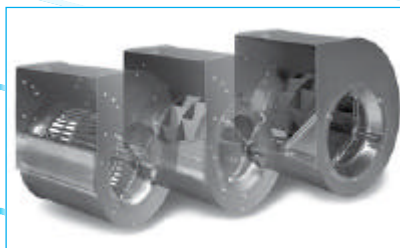
**Nicotra Gebhardt S.p.A.** (Italy) certifies that ADH-E fans of the E0, E2, E4, E6 and E7 versions, from sizes 0160 to 0560, RDH-E fans of the E0, E2, E4, E6 and E7 versions, from sizes 0180 to 0560, ADH and RDH fans of the L, R, K, K1 and K2 versions, from sizes 0630 to 1000, AT fans of the S, SC, C and TIC versions, from sizes 7/7 to 30/28, shown herein are licensed to bear the AMCA Seal.

**Nicotra Gebhardt GmbH** (Germany) certifies that RZR fans of the 11, 12, 15 versions, from sizes 0355 to 1000, shown herein are 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.

Air performance with Installation Type "A" ("with free outlet"), and that of the twin fan versions G2L, G2R, G2K, G2K2, G2E0, G2E2, G2E4, G2E7, SC2, G2C and G2C-C2, and that of the triple fan versions G3C and G3C-C2 in any installation type is not AMCA licensed.

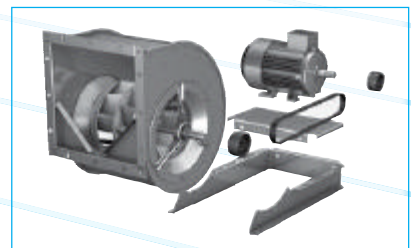
## Nicotra Gebhardt stands for:



► Maximised flexibility and minimised design effort for customers, because all radial fan casings have identical dimensions – no matter what kind of impeller geometry



► Top product quality and shorter delivery times – thanks to state-of-the-art production technology



► Energy efficiency through comprehensive system know-how



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# The Nicotra Gebhardt portfolio

## A strong provider for many optimal solutions

When it comes to radial fans, we are the first people you should talk to. From belt-driven radial fans to plugfans, it's all there in our product portfolio. We offer the largest, most comprehensive range of products in this area – and of course the matching services.

### ADH-E / ADH



double-inlet  
forward-curved  
impeller geometry

### AT



double-inlet  
inch diameters  
forward-curved impeller  
geometry

### RDH-E / RDH



double-inlet  
backward-curved  
impeller geometry

### RZR



double-inlet  
hollow aerofoil  
impeller geometry

## When everything fits

To us, perfection in our product portfolio means that all product series in the area of encased radial fans are attuned to one another and are 100% compatible in their dimensions.

How did we do it?

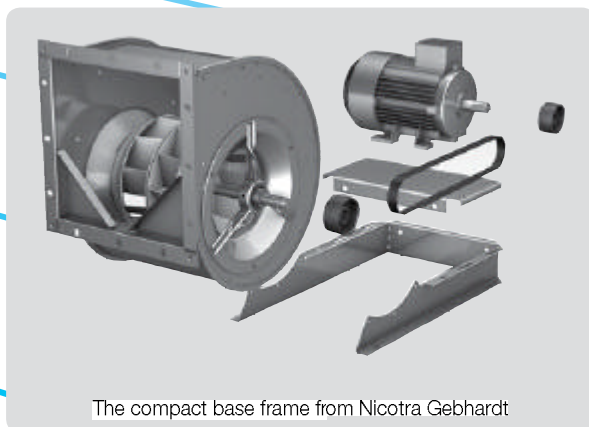
By using an identical design for the connection dimensions of every fan size in our newly developed series ADH-E and RDH-E and carefully coordinating our options and accessories.

In this way, we have standardised and harmonised our product portfolio in all relevant areas.

## Well designed, easy to install, economical

A system that saves space, time, and money – in an air handling unit or any other application: our compact base frame offers decisive advantages:

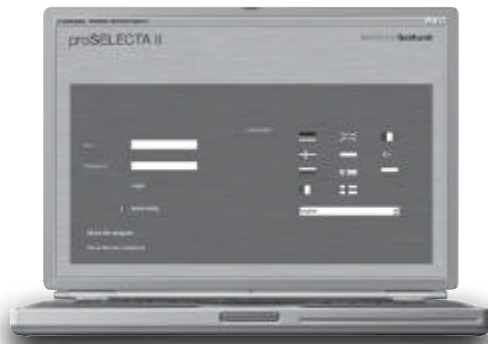
- ▶ The frame lengths have been optimised and adjusted for the casing position and motor installation height to achieve the smallest possible overall height and length
- ▶ Exact, optimised coordination of all components, all the way through to installation, adjustment and testing
- ▶ Suitable for all fans of the series ADH-E0, RDH-E0 and RZR-11 up to size 0500



The compact base frame from Nicotra Gebhardt

# proSELECTA II

proSELECTA II is a technical selection program that allows you to configure your own individually designed fan. It provides you with the opportunity to choose from the entire range of fan types and their associated options.



## Simple and reliable selection

The result from **proSELECTA II** is the provision of all the technical data for your fan, including sound level data, dimension specifications and accessories. Apart from that, as a registered user, your purchase prices are provided. Additionally fully dimensioned drawings in DXF format are available, which can be downloaded and transferred straight into your CAD system.

## So that you can be sure

Models and options that are technically not permissible, are automatically excluded in proSELECTA II. So there is no chance that you will configure a "wrong" device option.



## What else is important to you

During the fan selection process, you can choose any of the standardised ATEX options.

Free registration and many advantages

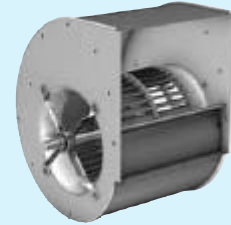
You can register as a proSELECTA II user with us, which enables us to offer you faster order processing. What this means for you is:

- ▶ The complete configuration of your fan with its associated system accessories and belt drive layout.
- ▶ The possibility to produce fans that operate via a frequency inverter.
- ▶ The option of saving your own fan configuration on our server.
- ▶ The opportunity to modify your saved configuration, even over the phone to your Nicotra Gebhardt representative.

### High performance centrifugal fan ADH

double inlet for belt drive  
impeller with forward curved blades of galvanised sheet steel

- ▶ Volume up to 300,000 m<sup>3</sup>/h
- ▶ Pressure up to 2,200 Pa

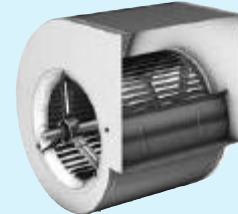


ADH

### High performance centrifugal fan AT

double inlet for belt drive  
impeller with forward curved blades of galvanised sheet steel

- ▶ Volume up to 65,000 m<sup>3</sup>/h
- ▶ Pressure up to 2,500 Pa

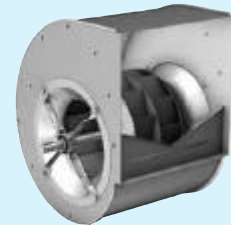


AT

### High performance centrifugal fan RDH

double inlet for belt drive  
centrifugal impeller with backward inclined blades

- ▶ Volume up to 290,000 m<sup>3</sup>/h
- ▶ Pressure up to 3,500 Pa

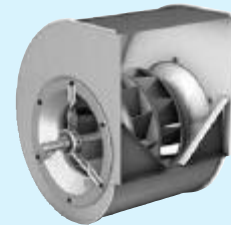


RDH

### High performance centrifugal fan RZR

double inlet for belt drive  
high performance impeller with backward curved hollow section true aerofoil blades

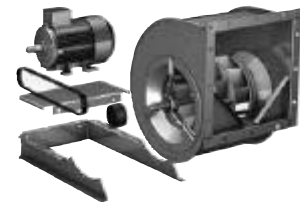
- ▶ Volume up to 300,000 m<sup>3</sup>/h
- ▶ Pressure up to 3,500 Pa



RZR

### Fittings / Accessories

- ▶ complete system accessories
- ▶ miscellaneous fittings



Accessories

### Description

- ▶ technical description
- ▶ operating limits



Description

# The Nicotra Gebhardt best-sellers, simply!



## The series AT

Fans of AT series don't need any presentation: they have been one of the main strengths in the Nicotra Gebhardt product range for over 35 years and have long been appreciated for their unequalled combination of compactness, efficiency, quietness of operation and versatility, at an extremely affordable price.

### News

How we can improve a perfect fan?

We tried, anyway: we developed a new seaming process, to join the back plate to the side plates with a fully automated process.

The result is a new scroll without welding and whatever can become rusty, also providing a better structural strength to vibrations.

And, since we like to be coherent, we even deleted welding of the side frames, which are now screwed to scrolls, and from spars, now riveted.

### Searching for excellence

Who have say that a product with a nice price cannot be a nice product?

The success of the AT series confirm is the real proof: the bearings have been selected to achieve, at maximum load and with suitable pulleys, a bearing life of 40.000 hours, a number that can be considerably greater in more common load conditions. Top quality materials, innovative technology of scroll and impeller manufacturing and assembly, high efficiency, options and accessories, everything has been chosen to provide a long operating life time, with the maximum quietness and safety.

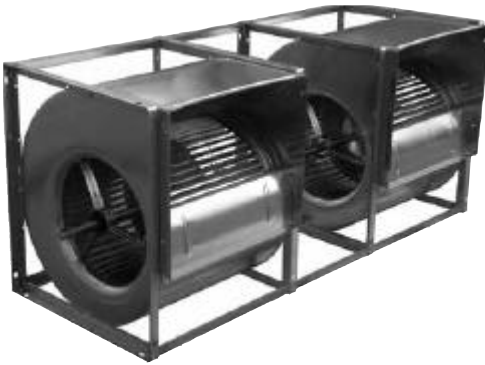
### Complete range

Aren't you convinced?

Have a look to the range of the AT fans, you immediately realize that, as far as we can, we're doing our best to try and meet all your requirements.

We have single, twin and triple fans, with or without side frames, with one, two or three bearings for light or heavy duty, we have versions with hollow shafts, when there is the need of reducing the weight without reducing the fan performance, and also spark-proof versions.

Do you still think that we don't have the right fan for you?



# Product overview

## range AT

This kind of fans are specially conceived for mechanical ventilation, at temperatures from -20 °C to +40 °C on S, SC, G2L and SC2 models, or up to 100 °C on AR, TIC, G2C, G2C-C2, G3C, G3C-C2 models.

Air performance and sound data have been obtained in a laboratory registered by AMCA for AMCA 210/99 air performance testing and they are within the tolerances allowed by the DIN 24166 standard for Class 2.

### Single, twin and triple fans

- ▶ Impeller size (diameter/width) from 7/7 to 30/28
- ▶ Lap-jointed scroll of galvanized steel assembled with roller-lock seaming (sizes up to 18/18) or with Pittsburgh lock seam (for sizes larger than 18/18)
- ▶ Straight cut off plate at fan outlet
- ▶ Impeller with forward curved blades of galvanized steel, optimized for the best efficiency and quietness
- ▶ Galvanized steel shaft





### Single, twin and triple fans.





- ▶ Airflow up to 180.000 m<sup>3</sup>/h
- ▶ Total pressure up to 1.400 Pa

### The variety

We have the right fan for all your applications!

Depending on the fan size, five single fan versions, four twin fan versions and two triple fan versions are available in the AT range.

| Version | Description   | Figure  |
|---------|---|---|
| AT S    | Light construction, without feet and outlet flange. Light-duty bearing and pressed steel bearing supporting brackets.   |  |
| AT SC   | With rectangular side frame and without outlet flange. Light-duty bearing and pressed steel bearing supporting brackets. C version has also three steel bars with the ends welded to three corners of both the side frames. |  |
| AT AR   | With heavy duty reinforced side frames, joined by three steel bars in three corners and without outlet flange. Medium duty bearing inside lubricatable, cast iron pillow block, mounted on a robust cross-bar.              |  |
| AT TIC  | With heavy duty reinforced side frames, joined by four steel bars in four corners and without outlet flange. Medium-heavy duty bearing inside lubricatable, cast iron pillow block, mounted on a robust cross-bar.          |  |

| Version   | Description  | Figure  |
|-----------|--|---|
| AT G2L    | Two S-version single fans joined together by three U-section spars. The two impellers are mounted on a common shaft, supported by three bearings.  |  |
| AT SC2    | Two SC-version single fans joined together by three L-section spars. The two impellers are mounted on a common shaft, supported by three bearings.   |  |
| AT G2C    | Two single fans mounted side-by-side inside a common supporting frame of three L-section spars. The two impellers are mounted on a common shaft, supported at the ends by just two bearings. Use of hollow shafts on the larger sizes. |  |
| AT G2C-C2 | Mechanically similar to G2C fans but stronger, thanks to the use of hollow shafts with larger diameter (45 mm) journals and plummer blocks with heavy-duty bearings.   |  |



# AT 7/7

Performance certified is for installation type B - free inlet, ducted outlet.

Power rating (kW) does not include transmission losses.

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

## Technical Data

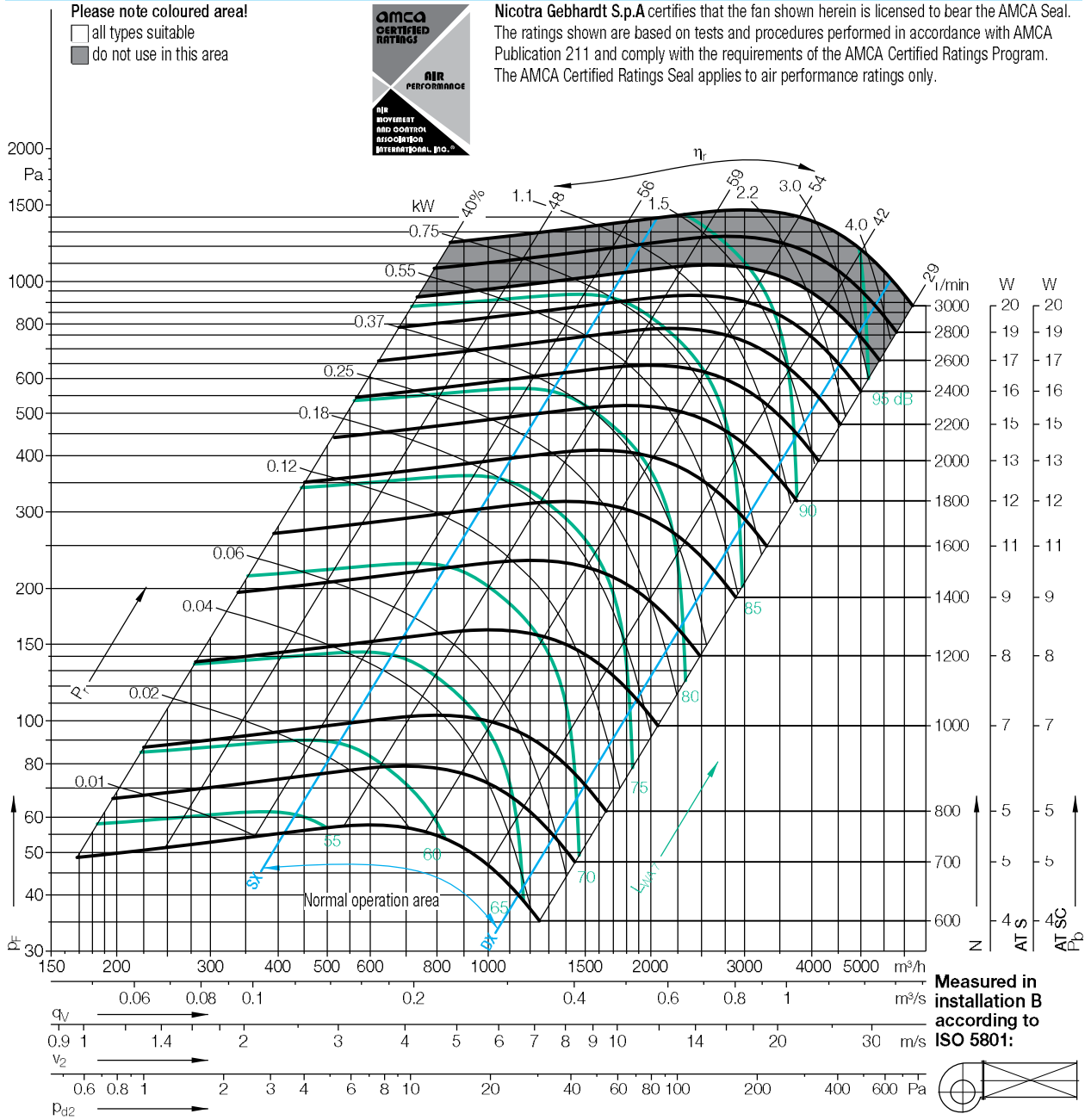
### Impeller Data

|                   |       |                        |
|-------------------|-------|------------------------|
| Impeller diameter | $D_f$ | 200 mm                 |
| Number of blades  | $z$   | 46                     |
| Moment of Inertia | $J$   | 0.009 kgm <sup>2</sup> |

### Impeller Data

|                             |          |                       |
|-----------------------------|----------|-----------------------|
| Impeller weight             | $m$      | 1.25 kg               |
| Density of media            | $\rho_1$ | 1.2 kg/m <sup>3</sup> |
| Tolerance class (DIN 24166) |          | 2                     |

## Performance Curves



| Duty point  | Speed 1/min | dB |
|-------------|-------------|----|
| SX          | 2200        | 3  |
| SX          | 1400        | 3  |
| SX          | 800         | 2  |
| $Q_{V,opt}$ | 2200        | 3  |
| $Q_{V,opt}$ | 1400        | 2  |
| $Q_{V,opt}$ | 800         | 2  |
| DX          | 2200        | 3  |
| DX          | 1400        | 2  |
| DX          | 800         | 2  |

| Relative sound power level for inlet side $L_{Wrel7}$ at octave centre frequencies $f_c$ |     |     |     |      |      |      |      |    |  |
|--|-----|-----|-----|------|------|------|------|----|--|
| 63   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |  |
| -2   | -7  | 0   | -8  | -8   | -6   | -7   | -12  | dB |  |
| -6   | -1  | -3  | -8  | -6   | -5   | -10  | -14  | dB |  |
| -2   | 2   | -8  | -5  | -3   | -8   | -12  | -18  | dB |  |
| -4   | -10 | 0   | -9  | -9   | -6   | -7   | -11  | dB |  |
| -9   | -2  | -3  | -9  | -6   | -5   | -9   | -13  | dB |  |
| -5   | 2   | -9  | -6  | -4   | -7   | -11  | -17  | dB |  |
| -7   | -12 | -4  | -8  | -10  | -7   | -6   | -7   | dB |  |
| -11  | -7  | -4  | -11 | -8   | -6   | -6   | -8   | dB |  |
| -9   | -3  | -11 | -8  | -6   | -6   | -8   | -11  | dB |  |

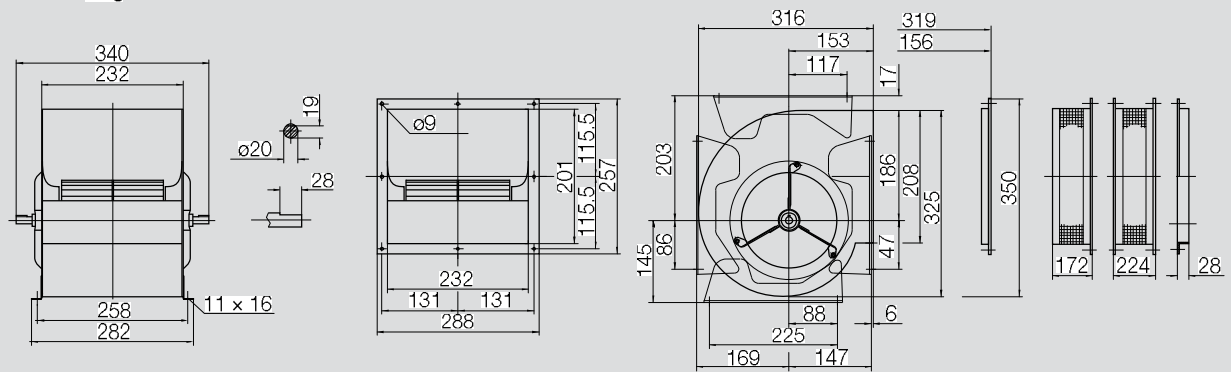
| Relative sound power level for discharge side $L_{Wrel4}$ at octave centre frequencies $f_c$ |     |     |     |      |      |      |      |    |  |
|--|-----|-----|-----|------|------|------|------|----|--|
| 63   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |  |
| 9  | 2   | 6   | -4  | -5   | -4   | -5   | -10  | dB |  |
| 3  | 6   | 2   | -5  | -4   | -3   | -8   | -13  | dB |  |
| 5  | 7   | -5  | -3  | -2   | -6   | -10  | -16  | dB |  |
| 6  | -2  | 6   | -5  | -6   | -5   | -5   | -9   | dB |  |
| 0  | 4   | 1   | -6  | -5   | -4   | -7   | -11  | dB |  |
| 2  | 6   | -6  | -4  | -3   | -6   | -10  | -16  | dB |  |
| 3  | -4  | 1   | -4  | -6   | -5   | -4   | -6   | dB |  |
| -3   | -2  | 0   | -7  | -5   | -4   | -5   | -7   | dB |  |
| -3   | 2   | -7  | -5  | -3   | -4   | -6   | -11  | dB |  |



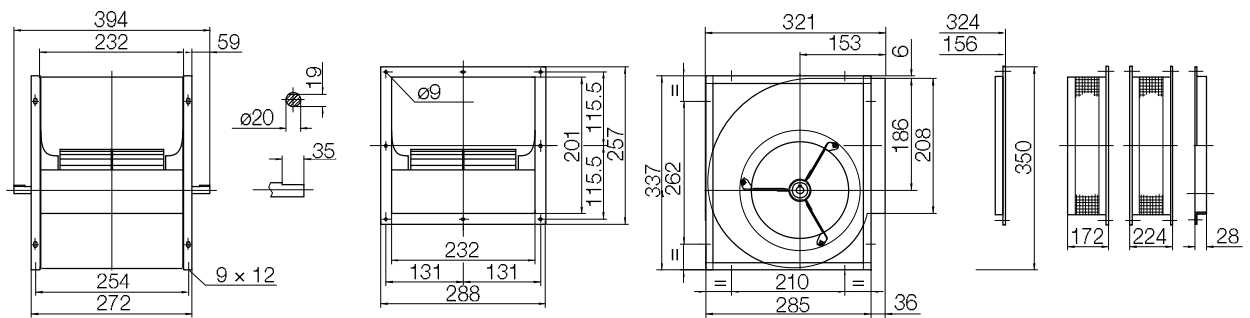
# AT 7/7

Dimensions in mm, subject to change.

**AT S-7/7** 5 kg



**AT SC-7/7** 6 kg



# AT 9/7

Performance certified is for installation type B - free inlet, ducted outlet.

Power rating (kW) does not include transmission losses.

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

## Technical Data

### Impeller Data

|                   |       |                        |
|-------------------|-------|------------------------|
| Impeller diameter | $D_f$ | 242 mm                 |
| Number of blades  | $z$   | 43                     |
| Moment of Inertia | $J$   | 0.029 kgm <sup>2</sup> |

### Impeller Data

|                             |          |                       |
|-----------------------------|----------|-----------------------|
| Impeller weight             | $m$      | 2.3 kg                |
| Density of media            | $\rho_1$ | 1.2 kg/m <sup>3</sup> |
| Tolerance class (DIN 24166) |          | 2                     |

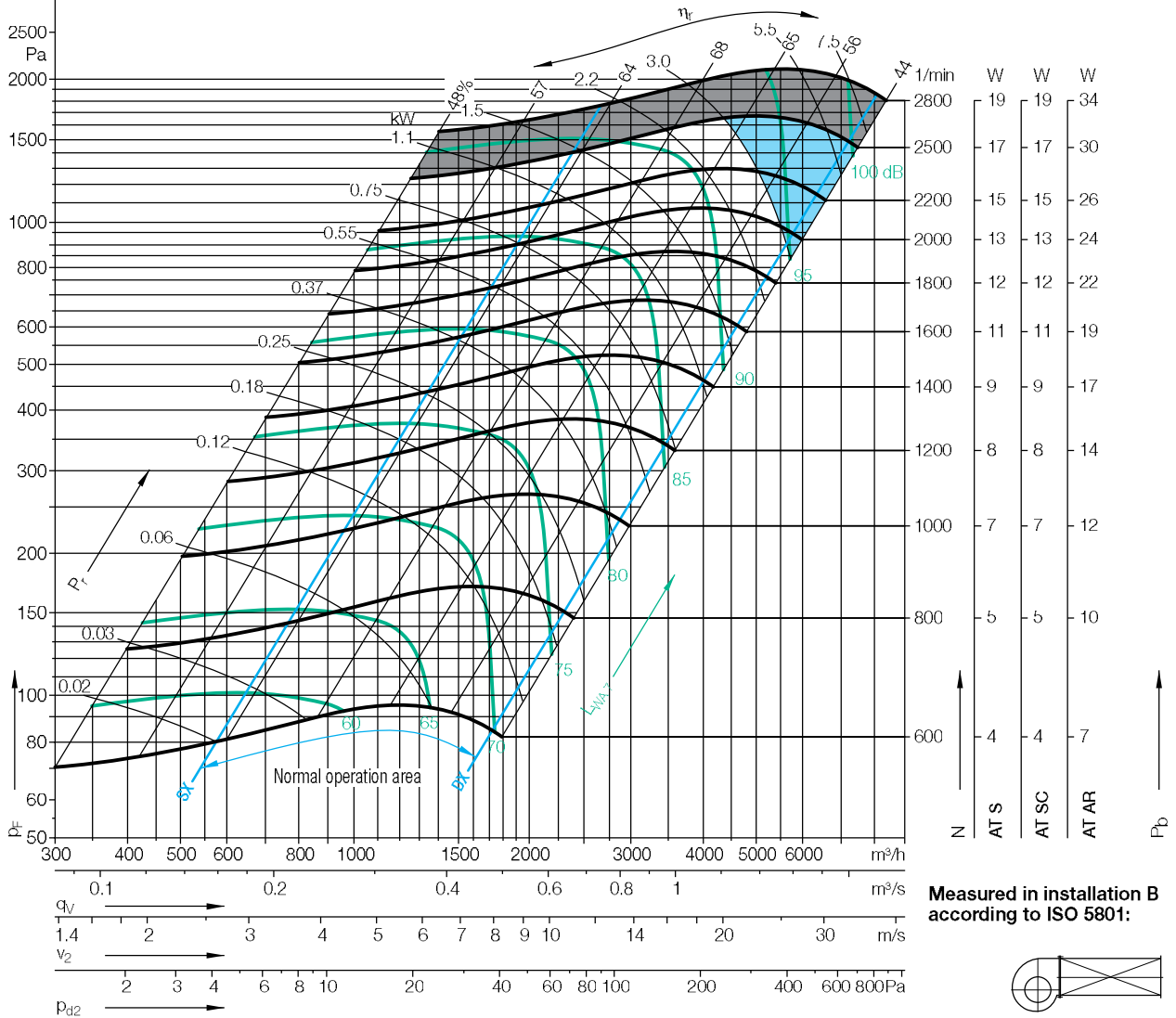
## Performance Curves

Please note coloured area!

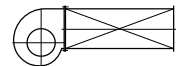
- all types suitable
- AT AR only
- do not use in this area



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Measured in installation B according to ISO 5801:



$\Delta L_{Wrel,d}(A)$

Relative sound power level for inlet side  $L_{Wrel,i}$  at octave centre frequencies  $f_c$

Relative sound power level for discharge side  $L_{Wrel,d}$  at octave centre frequencies  $f_c$

| Duty point  | Speed 1/min | dB |
|-------------|-------------|----|
| SX          | 2200        | 4  |
| SX          | 1400        | 2  |
| SX          | 800         | 2  |
| $Q_{V,opt}$ | 2200        | 3  |
| $Q_{V,opt}$ | 1400        | 2  |
| $Q_{V,opt}$ | 800         | 1  |
| DX          | 2200        | 2  |
| DX          | 1400        | 2  |
| DX          | 800         | 2  |

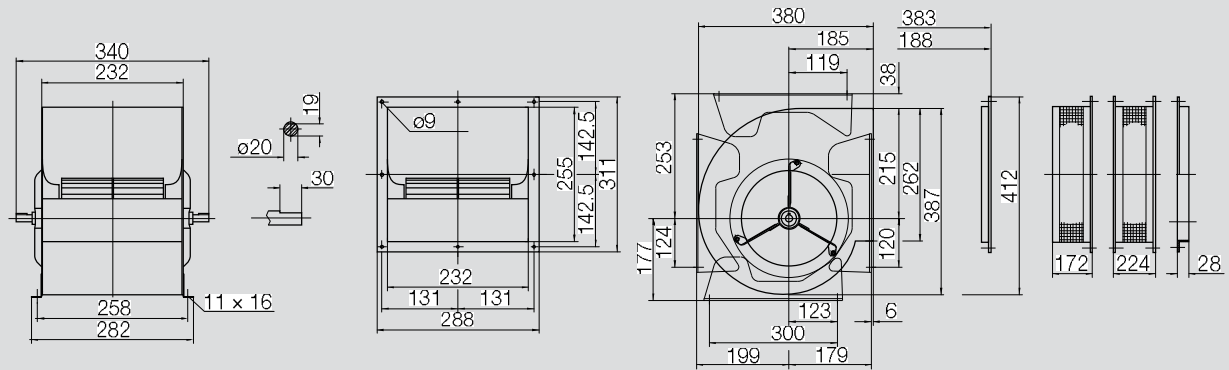
|     | 63  | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|-----|-----|-----|-----|-----|------|------|------|------|----|
| 12  | -5  | 0   | -7  | -7  | -6   | -9   | -15  |      | dB |
| 2   | -1  | -3  | -7  | -4  | -6   | -11  | -18  |      | dB |
| -2  | 2   | -6  | -3  | -4  | -8   | -15  | -22  |      | dB |
| 10  | -8  | 0   | -8  | -8  | -6   | -8   | -12  |      | dB |
| -1  | -3  | -3  | -7  | -5  | -6   | -9   | -15  |      | dB |
| -6  | 2   | -7  | -4  | -4  | -7   | -13  | -20  |      | dB |
| 0   | -15 | -5  | -12 | -10 | -5   | -6   | -9   |      | dB |
| -10 | -8  | -8  | -12 | -5  | -6   | -7   | -11  |      | dB |
| -10 | -4  | -12 | -4  | -5  | -6   | -9   | -14  |      | dB |

|    | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|----|----|-----|-----|-----|------|------|------|------|----|
| 24 | 3  | 5   | -5  | -5  | -4   | -7   | -13  |      | dB |
| 11 | 5  | 1   | -4  | -2  | -4   | -9   | -16  |      | dB |
| 5  | 6  | -4  | -1  | -2  | -6   | -13  | -20  |      | dB |
| 20 | 0  | 5   | -5  | -5  | -5   | -7   | -11  |      | dB |
| 7  | 2  | 0   | -5  | -4  | -5   | -8   | -14  |      | dB |
| 0  | 6  | -4  | -3  | -3  | -6   | -11  | -18  |      | dB |
| 9  | -9 | -1  | -9  | -7  | -3   | -5   | -8   |      | dB |
| -3 | -3 | -5  | -10 | -3  | -4   | -6   | -10  |      | dB |
| -5 | -1 | -10 | -2  | -4  | -5   | -8   | -14  |      | dB |

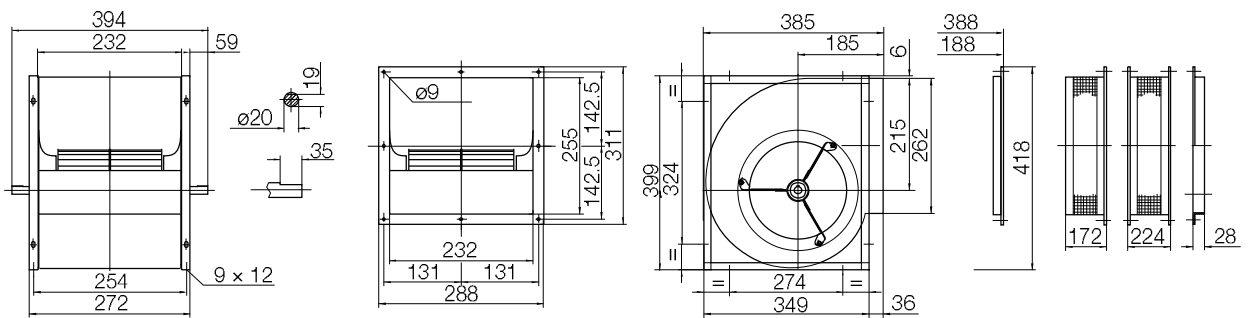
# AT 9/7

Dimensions in mm, subject to change.

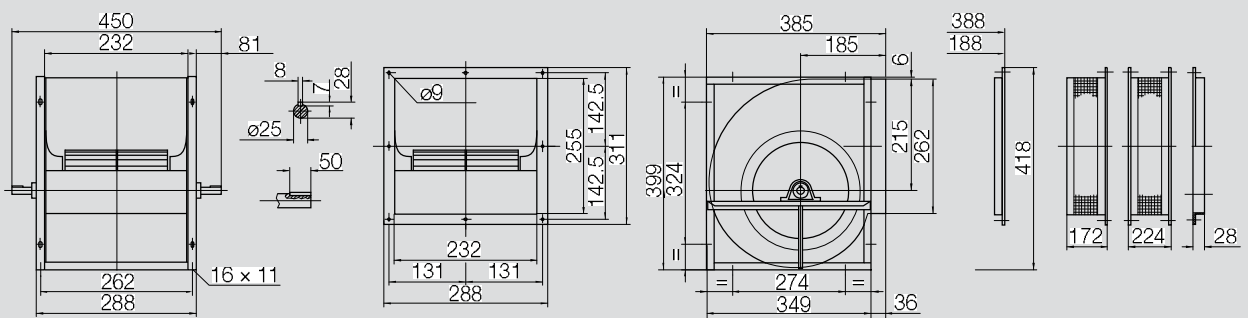
**AT S-9/7** 6.6 kg



**AT SC-9/7** 8.3 kg



**AT AR-9/7** 8.3 kg



# AT 9/9

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

## Technical Data

### Impeller Data

|                   |       |                        |
|-------------------|-------|------------------------|
| Impeller diameter | $D_f$ | 242 mm                 |
| Number of blades  | $z$   | 43                     |
| Moment of Inertia | $J$   | 0.034 kgm <sup>2</sup> |

### Impeller Data

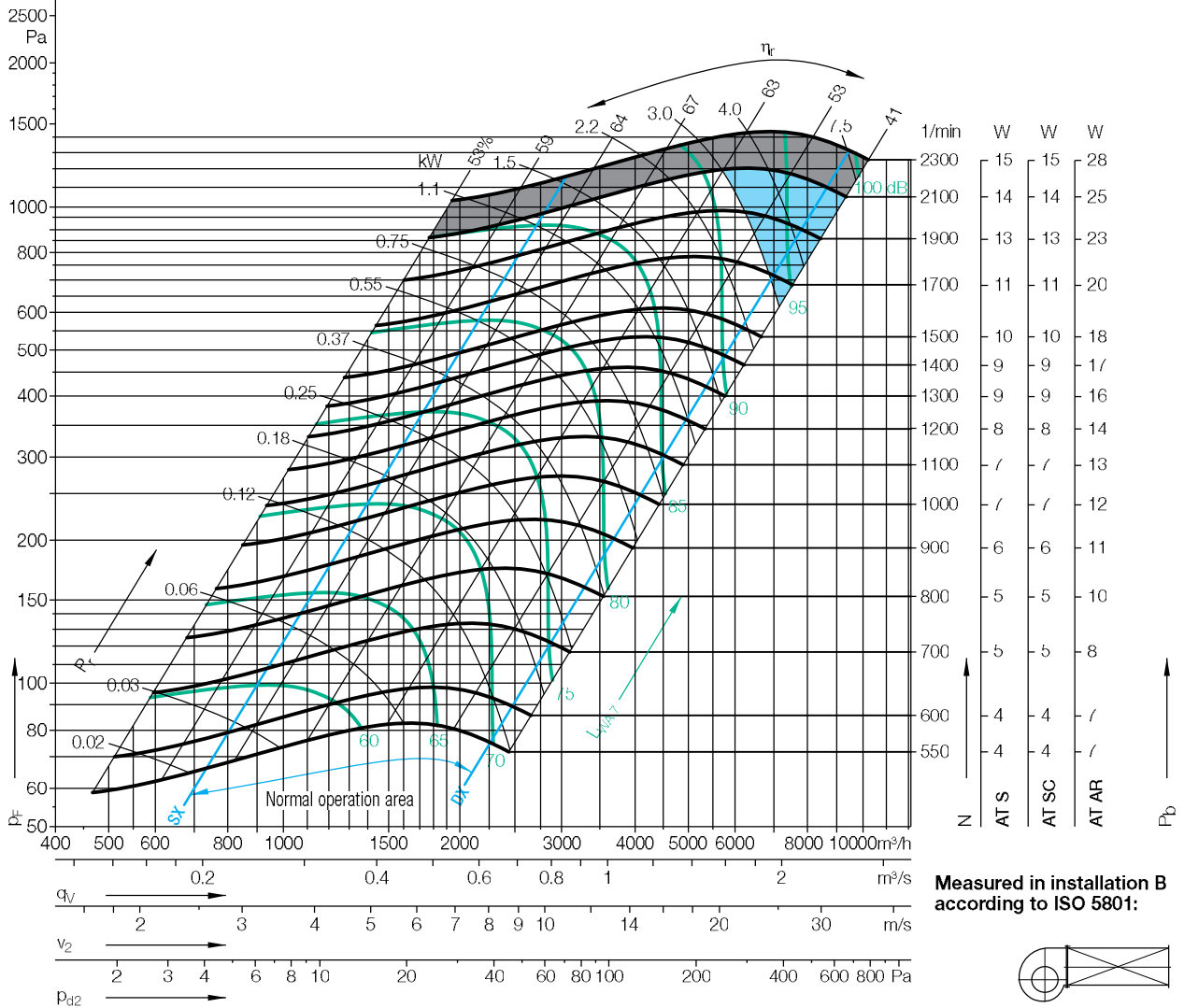
|                             |          |                       |
|-----------------------------|----------|-----------------------|
| Impeller weight             | $m$      | 2.9 kg                |
| Density of media            | $\rho_1$ | 1.2 kg/m <sup>3</sup> |
| Tolerance class (DIN 24166) |          | 2                     |

## Performance Curves

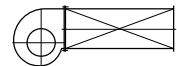
Please note coloured area:  
 □ all types suitable  
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 ■ do not use in this area



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Measured in installation B according to ISO 5801:



$\Delta L_{Wrel4}(A)$

Relative sound power level for inlet side  $L_{Wrel17}$  at octave centre frequencies  $f_c$

Relative sound power level for discharge side  $L_{Wrel4}$  at octave centre frequencies  $f_c$

| Duty point  | Speed 1/min | dB |
|-------------|-------------|----|
| SX          | 1900        | 2  |
| SX          | 1200        | 2  |
| SX          | 700         | 2  |
| $q_{V,opt}$ | 1900        | 2  |
| $q_{V,opt}$ | 1200        | 1  |
| $q_{V,opt}$ | 700         | 1  |
| DX          | 1900        | 2  |
| DX          | 1200        | 2  |
| DX          | 700         | 2  |

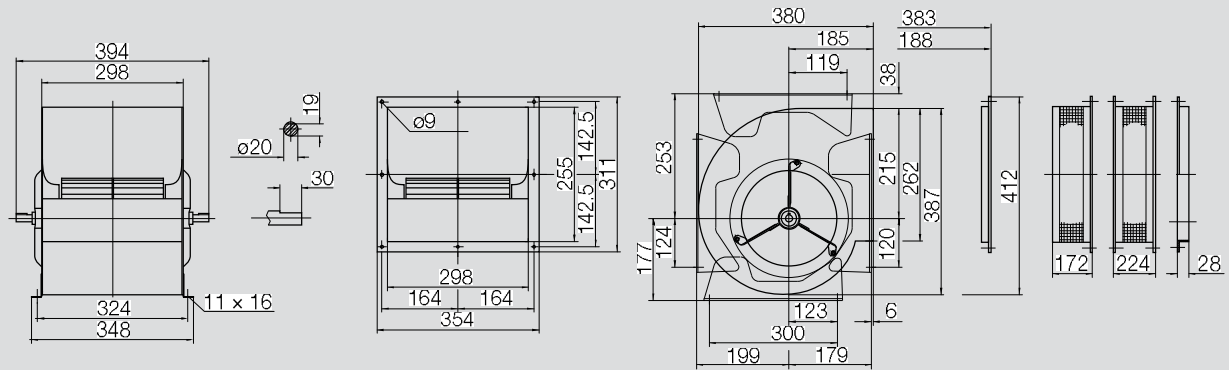
|  | 63  | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|--|-----|-----|-----|-----|------|------|------|------|----|
|  | 0   | -5  | 2   | -8  | -7   | -6   | -10  | -16  | dB |
|  | -4  | 4   | -5  | -5  | -5   | -6   | -12  | -20  | dB |
|  | 4   | 0   | -4  | -3  | -4   | -8   | -16  | -23  | dB |
|  | -5  | -8  | 2   | -7  | -7   | -6   | -9   | -13  | dB |
|  | -8  | 3   | -4  | -6  | -5   | -6   | -10  | -17  | dB |
|  | 2   | 0   | -5  | -4  | -4   | -7   | -14  | -21  | dB |
|  | -9  | -12 | -3  | -12 | -10  | -6   | -6   | -7   | dB |
|  | -13 | -3  | -10 | -11 | -7   | -5   | -7   | -10  | dB |
|  | -5  | -6  | -11 | -7  | -5   | -6   | -8   | -14  | dB |

|  | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|--|----|-----|-----|-----|------|------|------|------|----|
|  | 9  | 1   | 6   | -5  | -4   | -5   | -8   | -14  | dB |
|  | 3  | 8   | -2  | -3  | -3   | -5   | -10  | -18  | dB |
|  | 9  | 4   | -1  | -1  | -2   | -7   | -14  | -22  | dB |
|  | 3  | -3  | 4   | -5  | -5   | -6   | -8   | -12  | dB |
|  | -2 | 6   | -2  | -4  | -4   | -5   | -9   | -16  | dB |
|  | 6  | 3   | -2  | -3  | -3   | -6   | -12  | -20  | dB |
|  | -2 | -8  | 1   | -9  | -6   | -4   | -4   | -6   | dB |
|  | -7 | 1   | -8  | -8  | -4   | -4   | -5   | -9   | dB |
|  | -1 | -4  | -8  | -4  | -3   | -4   | -7   | -14  | dB |

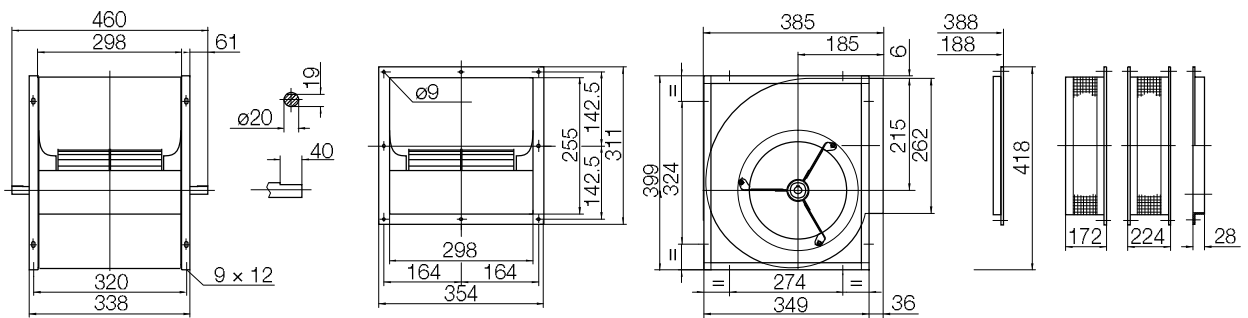
# AT 9/9

Dimensions in mm, subject to change.

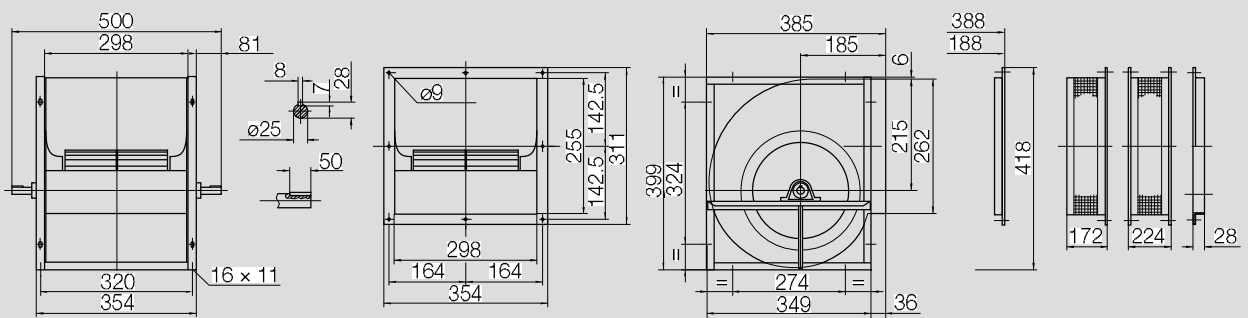
**AT S-9/9** 7.9 kg



**AT SC-9/9** 9.5 kg



**AT AR-9/9** 9.5 kg



# AT 10/8

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

## Technical Data

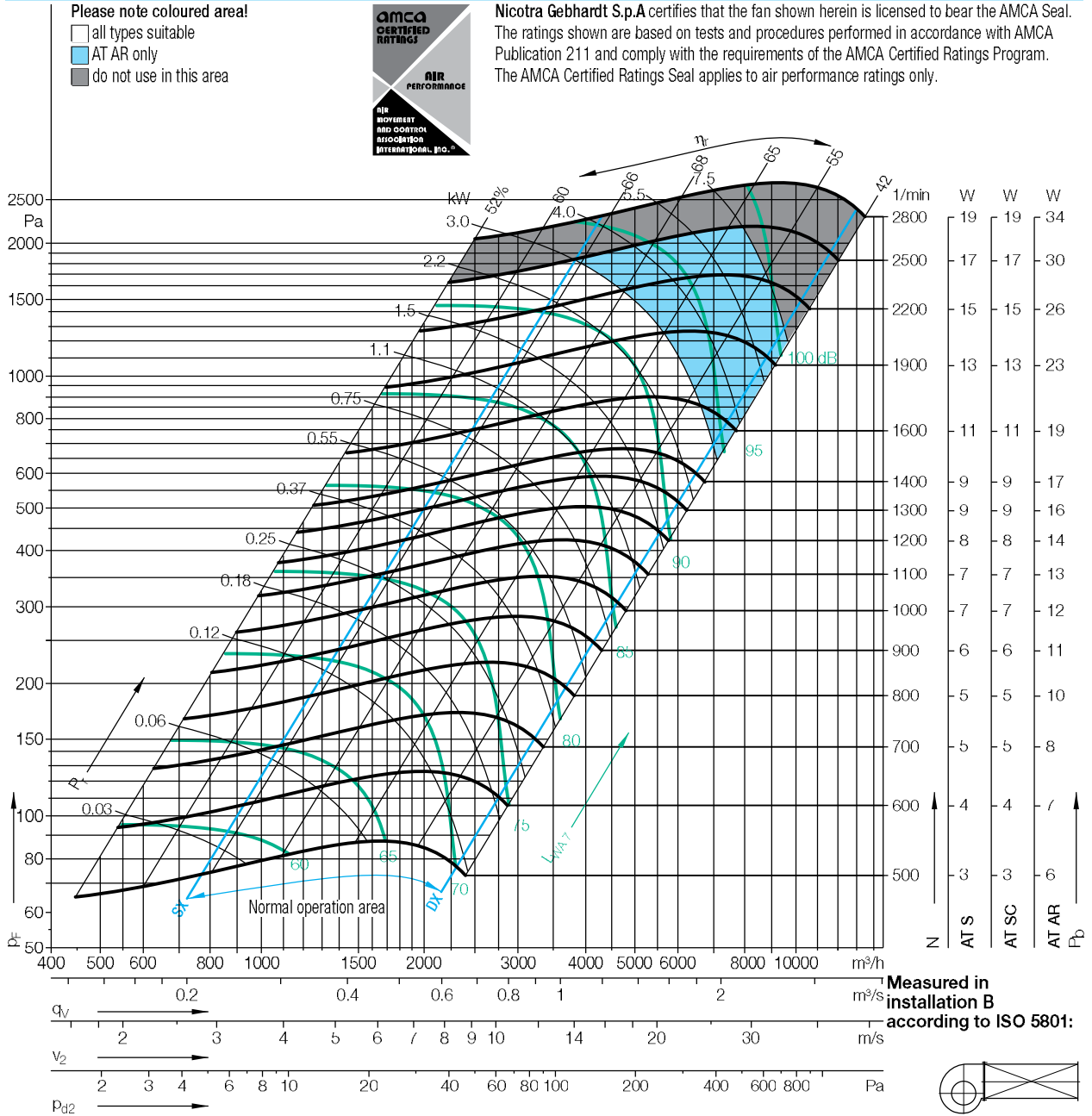
### Impeller Data

|                   |       |                        |
|-------------------|-------|------------------------|
| Impeller diameter | $D_f$ | 273 mm                 |
| Number of blades  | $z$   | 48                     |
| Moment of Inertia | $J$   | 0.047 kgm <sup>2</sup> |

### Impeller Data

|                             |          |                       |
|-----------------------------|----------|-----------------------|
| Impeller weight             | $m$      | 2.8 kg                |
| Density of media            | $\rho_1$ | 1.2 kg/m <sup>3</sup> |
| Tolerance class (DIN 24166) |          | 2                     |

## Performance Curves



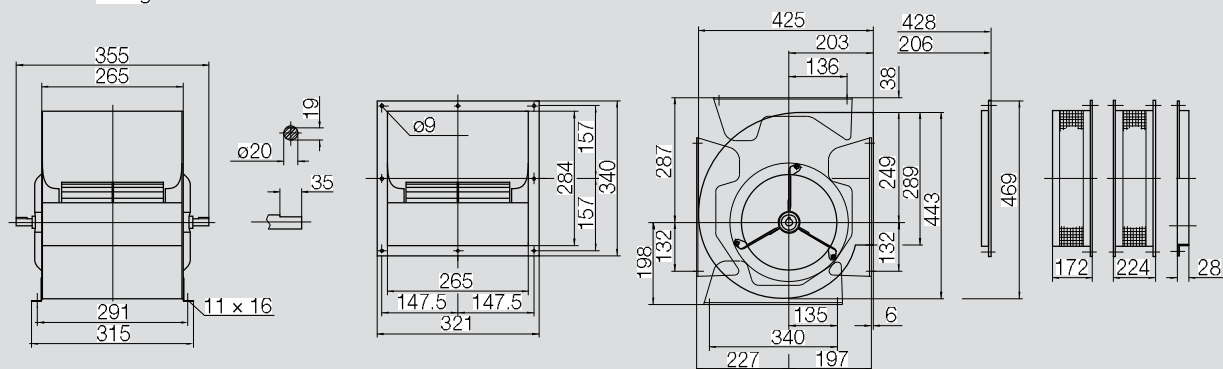
| Duty point  | Speed 1/min | dB |
|-------------|-------------|----|
| SX          | 1900        | 3  |
| SX          | 1200        | 3  |
| SX          | 700         | 2  |
| $Q_{V,opt}$ | 1900        | 2  |
| $Q_{V,opt}$ | 1200        | 2  |
| $Q_{V,opt}$ | 700         | 2  |
| DX          | 1900        | 2  |
| DX          | 1200        | 2  |
| DX          | 700         | 2  |

| $\Delta L_{Wrel4}(A)$ Relative sound power level for inlet side $L_{Wrel17}$ at octave centre frequencies $f_c$ |     |     |     |      |      |      |      |    |  |
|---|-----|-----|-----|------|------|------|------|----|--|
| 63  | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |  |
| -9  | -8  | -2  | -8  | -6   | -5   | -9   | -14  | dB |  |
| -7  | -3  | -3  | -7  | -3   | -7   | -11  | -18  | dB |  |
| -3  | 1   | -6  | -2  | -5   | -8   | -14  | -21  | dB |  |
| -12   | -11 | -3  | -7  | -7   | -5   | -8   | -12  | dB |  |
| -10   | -5  | -3  | -9  | -4   | -7   | -10  | -15  | dB |  |
| -6  | 0   | -8  | -2  | -5   | -8   | -12  | -19  | dB |  |
| -12   | -12 | -7  | -11 | -10  | -6   | -6   | -7   | dB |  |
| -12   | -9  | -8  | -13 | -6   | -6   | -7   | -9   | dB |  |
| -11   | -6  | -13 | -6  | -5   | -6   | -8   | -13  | dB |  |

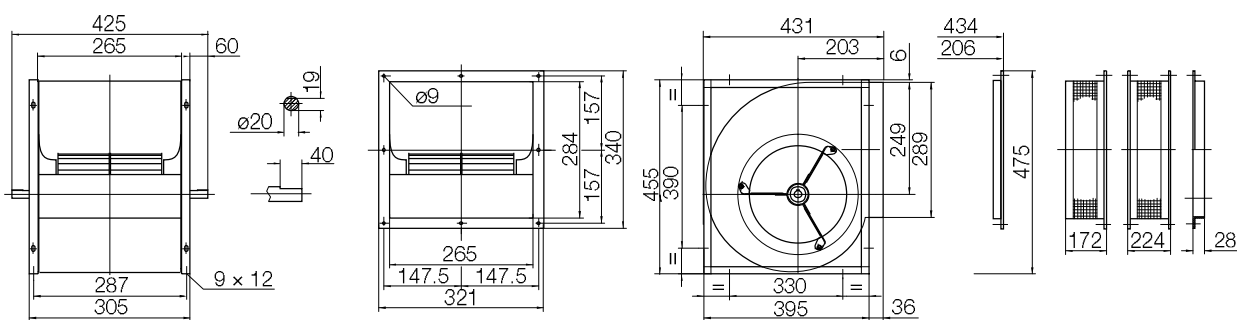
| Relative sound power level for discharge side $L_{Wrel4}$ at octave centre frequencies $f_c$ |     |     |     |      |      |      |      |    |  |
|--|-----|-----|-----|------|------|------|------|----|--|
| 63   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |  |
| 2  | 0   | 4   | -4  | -3   | -3   | -7   | -12  | dB |  |
| 2  | 3   | 1   | -4  | -1   | -5   | -9   | -16  | dB |  |
| 4  | 5   | -3  | 1   | -3   | -6   | -12  | -20  | dB |  |
| -2   | -4  | 2   | -4  | -4   | -4   | -7   | -10  | dB |  |
| -2   | 0   | 1   | -6  | -2   | -6   | -8   | -14  | dB |  |
| 0  | 4   | -5  | 0   | -4   | -6   | -11  | -18  | dB |  |
| -4   | -6  | -2  | -8  | -6   | -3   | -4   | -6   | dB |  |
| -5   | -4  | -5  | -9  | -4   | -4   | -5   | -8   | dB |  |
| -5   | -3  | -9  | -4  | -3   | -5   | -6   | -13  | dB |  |

# AT 10/8

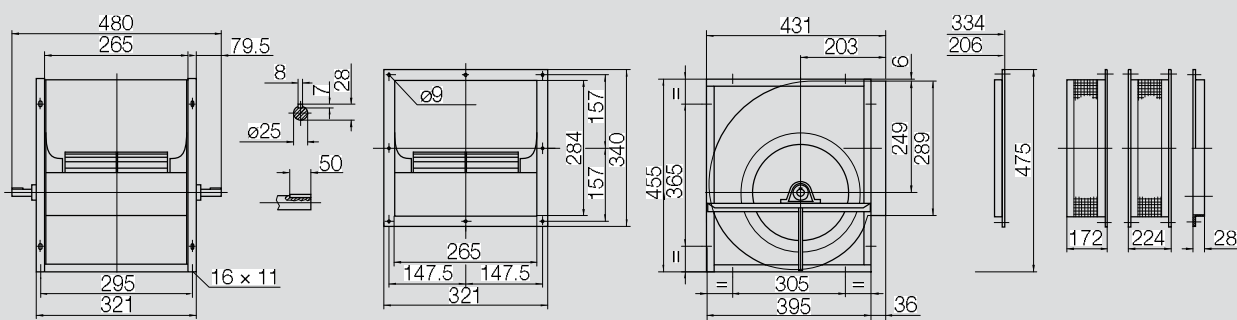
Dimensions in mm, subject to change.  
**AT S-10/8** 8.3 kg



**AT SC-10/8** 9.8 kg



**AT AR-10/8** 9.8 kg





# AT 10/10

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

## Technical Data

### Impeller Data

|                   |       |       |                  |
|-------------------|-------|-------|------------------|
| Impeller diameter | $D_f$ | 273   | mm               |
| Number of blades  | $z$   | 48    |                  |
| Moment of Inertia | $J$   | 0.055 | kgm <sup>2</sup> |

### Impeller Data

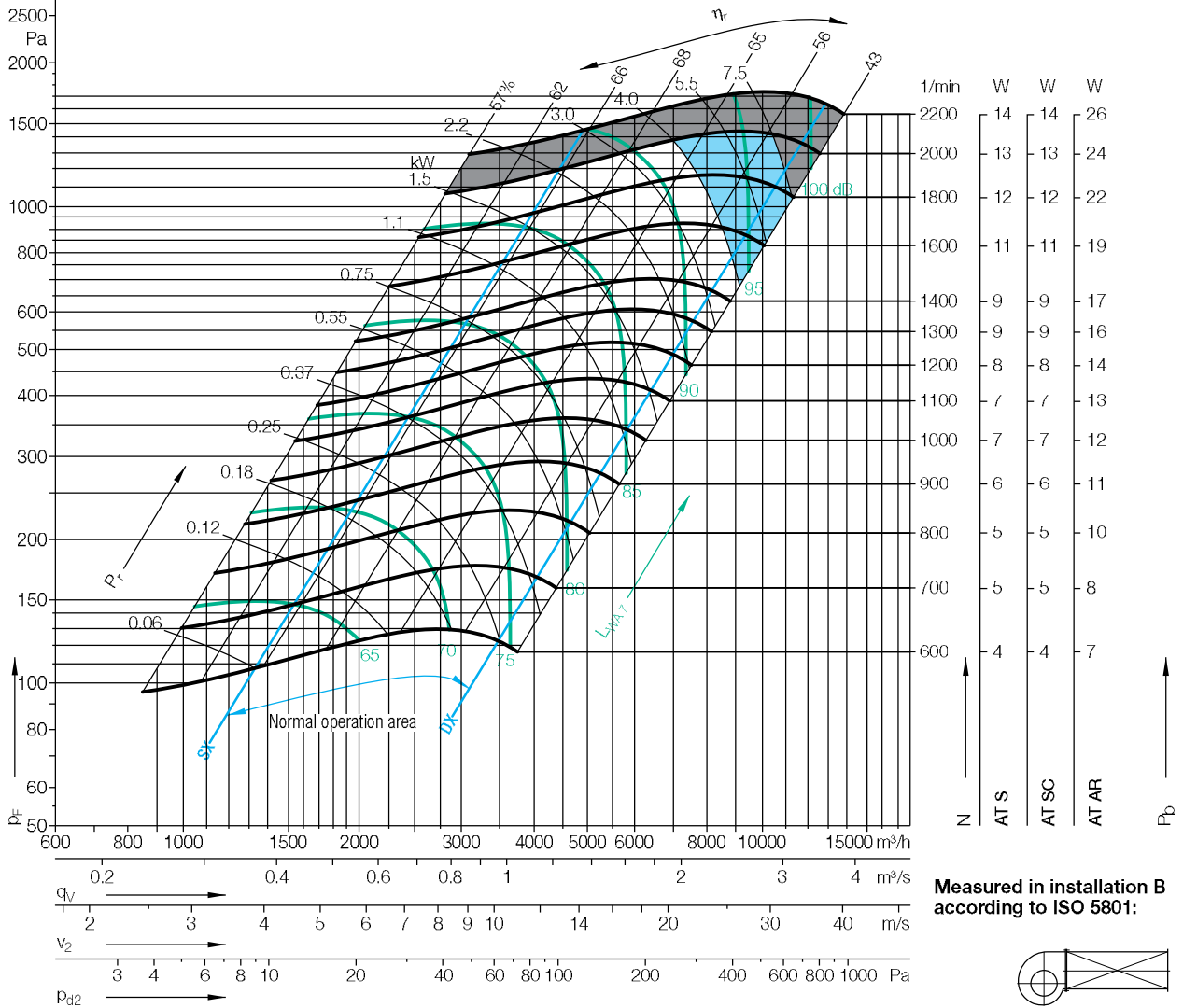
|                             |          |     |                   |
|-----------------------------|----------|-----|-------------------|
| Impeller weight             | $m$      | 3.5 | kg                |
| Density of media            | $\rho_1$ | 1.2 | kg/m <sup>3</sup> |
| Tolerance class (DIN 24166) |          | 2   |                   |

## Performance Curves

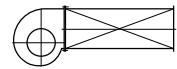
Please note coloured area:  
 □ all types suitable  
 ■ AT AR only  
 ■ do not use in this area



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Measured in installation B according to ISO 5801:



$\Delta L_{Wrel(d)}$

Relative sound power level for inlet side  $L_{Wrel(i)}$  at octave centre frequencies  $f_c$

Relative sound power level for discharge side  $L_{Wrel(d)}$  at octave centre frequencies  $f_c$

| Duty point  | Speed 1/min | dB |
|-------------|-------------|----|
| SX          | 1800        | 3  |
| SX          | 1200        | 2  |
| SX          | 700         | 2  |
| $Q_{V,opt}$ | 1800        | 2  |
| $Q_{V,opt}$ | 1200        | 2  |
| $Q_{V,opt}$ | 700         | 2  |
| DX          | 1800        | 3  |
| DX          | 1200        | 2  |
| DX          | 700         | 2  |

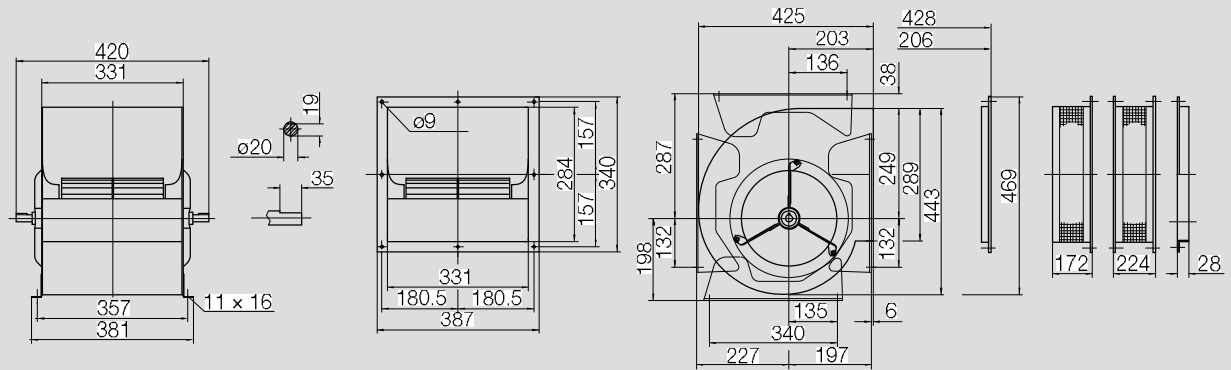
|  | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|--|----|-----|-----|-----|------|------|------|------|----|
|  | 0  | -4  | 1   | -7  | -7   | -7   | -9   | -14  | dB |
|  | -1 | 0   | 0   | -7  | -5   | -6   | -10  | -17  | dB |
|  | -1 | 3   | -4  | -4  | -4   | -7   | -13  | -21  | dB |
|  | -4 | -8  | -1  | -8  | -7   | -6   | -8   | -11  | dB |
|  | -6 | -3  | -2  | -7  | -6   | -6   | -9   | -14  | dB |
|  | -4 | 0   | -6  | -4  | -4   | -7   | -11  | -19  | dB |
|  | -1 | -5  | -3  | -9  | -8   | -7   | -7   | -8   | dB |
|  | -2 | -4  | -4  | -9  | -7   | -6   | -7   | -10  | dB |
|  | -5 | -2  | -9  | -7  | -6   | -6   | -8   | -13  | dB |

|  | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|--|----|-----|-----|-----|------|------|------|------|----|
|  | 9  | 3   | 5   | -3  | -4   | -5   | -7   | -12  | dB |
|  | 8  | 5   | 4   | -4  | -4   | -5   | -8   | -15  | dB |
|  | 5  | 7   | -1  | -2  | -3   | -6   | -12  | -20  | dB |
|  | 4  | -2  | 3   | -5  | -4   | -5   | -6   | -10  | dB |
|  | 2  | 2   | 1   | -4  | -4   | -5   | -7   | -13  | dB |
|  | 1  | 4   | -3  | -3  | -3   | -5   | -10  | -18  | dB |
|  | 7  | 1   | 1   | -5  | -5   | -4   | -5   | -7   | dB |
|  | 5  | 0   | -1  | -6  | -4   | -4   | -6   | -8   | dB |
|  | 0  | 1   | -5  | -4  | -4   | -4   | -7   | -13  | dB |

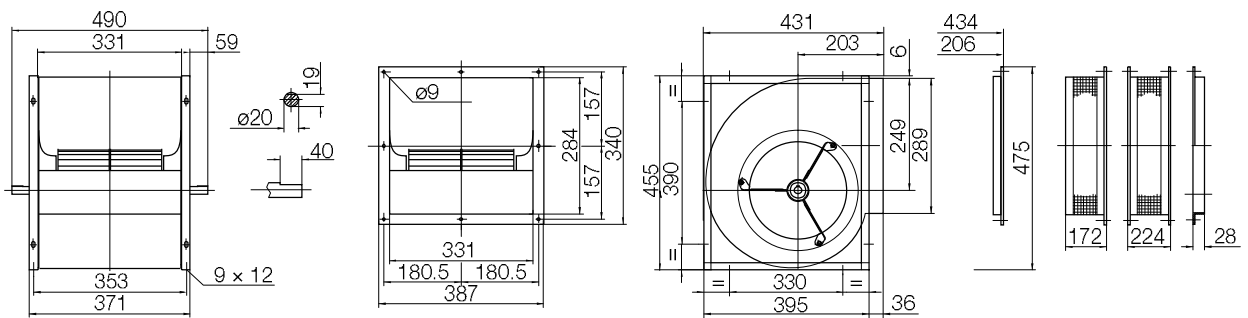
# AT 10/10

Dimensions in mm, subject to change.

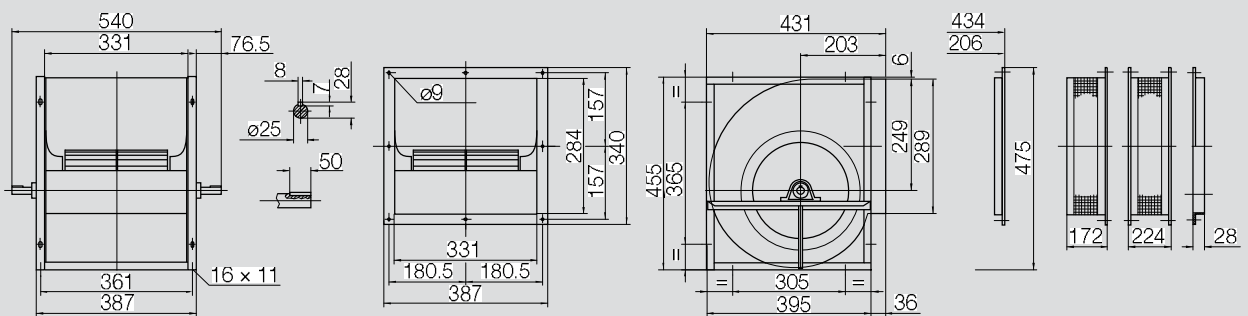
**AT S-10/10** 9.3 kg



**AT SC-10/10** 11 kg



**AT AR-10/10** 11 kg



# AT 12/9

Performance certified is for installation type B - free inlet, ducted outlet.

Power rating (kW) does not include transmission losses.

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

## Technical Data

### Impeller Data

|                   |       |       |                  |
|-------------------|-------|-------|------------------|
| Impeller diameter | $D_f$ | 322   | mm               |
| Number of blades  | $z$   | 43    |                  |
| Moment of Inertia | $J$   | 0.097 | kgm <sup>2</sup> |

### Impeller Data

|                             |          |     |                   |
|-----------------------------|----------|-----|-------------------|
| Impeller weight             | $m$      | 4.4 | kg                |
| Density of media            | $\rho_1$ | 1.2 | kg/m <sup>3</sup> |
| Tolerance class (DIN 24166) |          | 2   |                   |

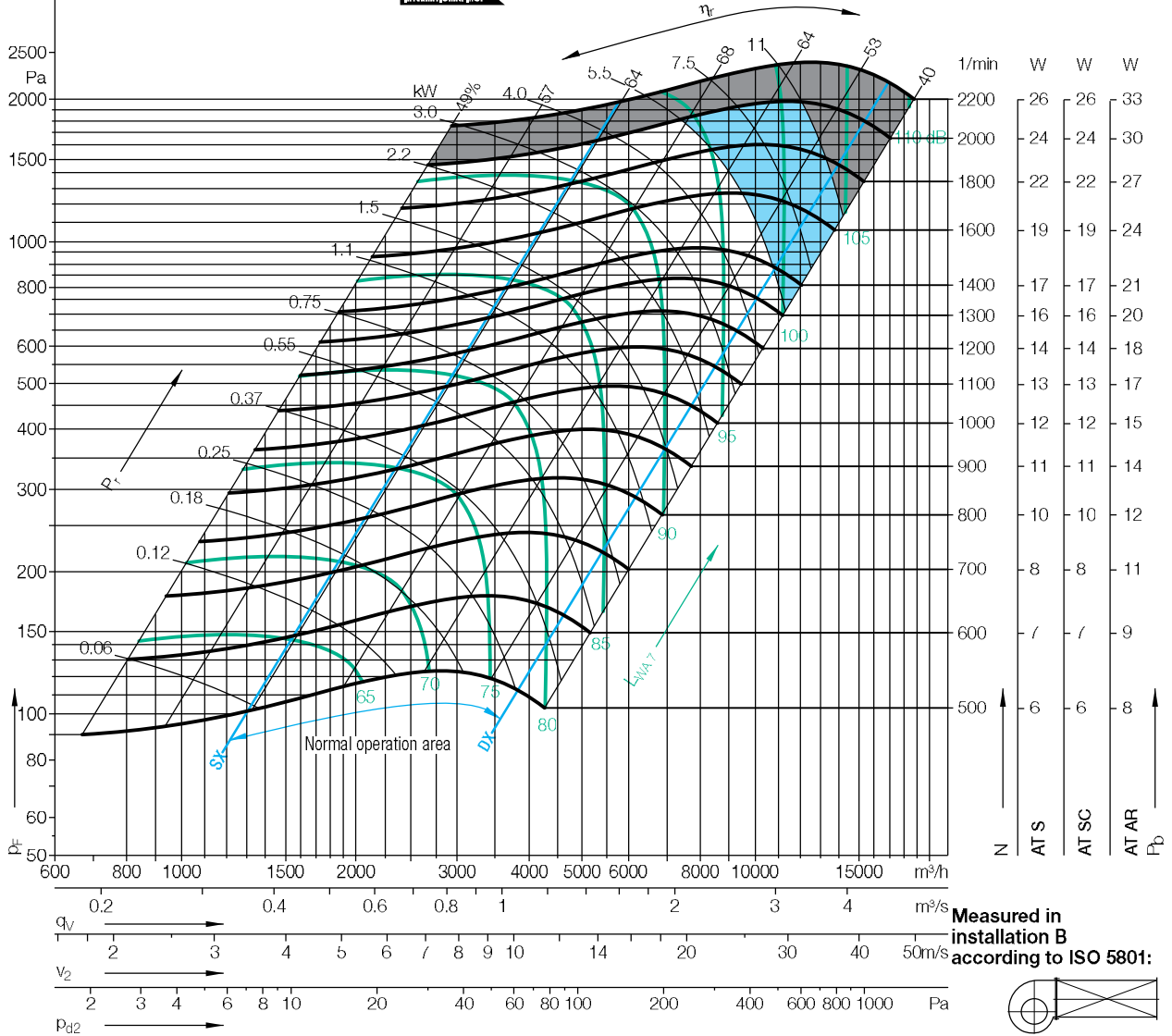
## Performance Curves

Please note coloured area!

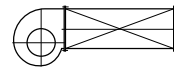
- all types suitable
- AT AR only
- do not use in this area



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Measured in installation B according to ISO 5801:



$\Delta L_{Wrel4}(A)$

Relative sound power level for inlet side  $L_{Wrel17}$  at octave centre frequencies  $f_c$

Relative sound power level for discharge side  $L_{Wrel4}$  at octave centre frequencies  $f_c$

| Duty point  | Speed 1/min | dB |
|-------------|-------------|----|
| SX          | 1800        | 2  |
| SX          | 1200        | 2  |
| SX          | 700         | 2  |
| $Q_{V,opt}$ | 1800        | 1  |
| $Q_{V,opt}$ | 1200        | 1  |
| $Q_{V,opt}$ | 700         | 1  |
| DX          | 1800        | 2  |
| DX          | 1200        | 2  |
| DX          | 700         | 2  |

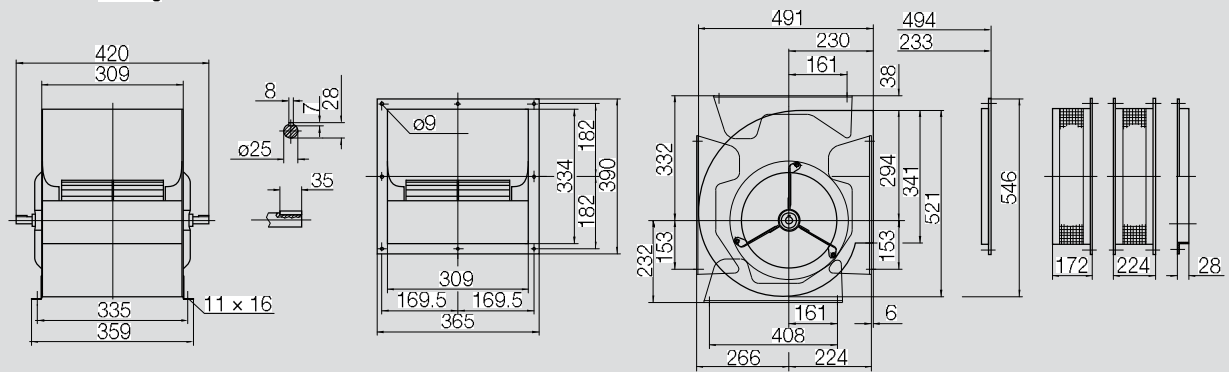
|     | 63  | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|-----|-----|-----|-----|-----|------|------|------|------|----|
| 1   | -2  | 0   | -8  | -6  | -6   | -9   | -13  |      | dB |
| 0   | 2   | -5  | -7  | -4  | -7   | -10  | -16  |      | dB |
| 3   | -1  | -5  | -3  | -5  | -7   | -13  | -18  |      | dB |
| 0   | -7  | -5  | -9  | -6  | -5   | -8   | -11  |      | dB |
| -1  | -5  | -8  | -8  | -4  | -6   | -9   | -14  |      | dB |
| -4  | -5  | -6  | -3  | -5  | -7   | -11  | -17  |      | dB |
| -10 | -10 | -7  | -12 | -9  | -4   | -7   | -10  |      | dB |
| -10 | -6  | -10 | -12 | -5  | -5   | -8   | -11  |      | dB |
| -6  | -7  | -11 | -5  | -4  | -7   | -10  | -13  |      | dB |

|    | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|----|----|-----|-----|-----|------|------|------|------|----|
| 10 | 4  | 3   | -6  | -4  | -4   | -7   | -10  |      | dB |
| 7  | 6  | -3  | -5  | -3  | -5   | -7   | -14  |      | dB |
| 7  | 2  | -3  | -1  | -3  | -5   | -10  | -16  |      | dB |
| 8  | -2 | -2  | -7  | -5  | -5   | -6   | -9   |      | dB |
| 6  | -1 | -6  | -5  | -4  | -5   | -7   | -12  |      | dB |
| 0  | -3 | -4  | -2  | -4  | -5   | -10  | -16  |      | dB |
| -4 | -5 | -4  | -9  | -6  | -2   | -5   | -8   |      | dB |
| -5 | -3 | -8  | -8  | -3  | -4   | -6   | -10  |      | dB |
| -3 | -5 | -8  | -3  | -2  | -5   | -8   | -13  |      | dB |

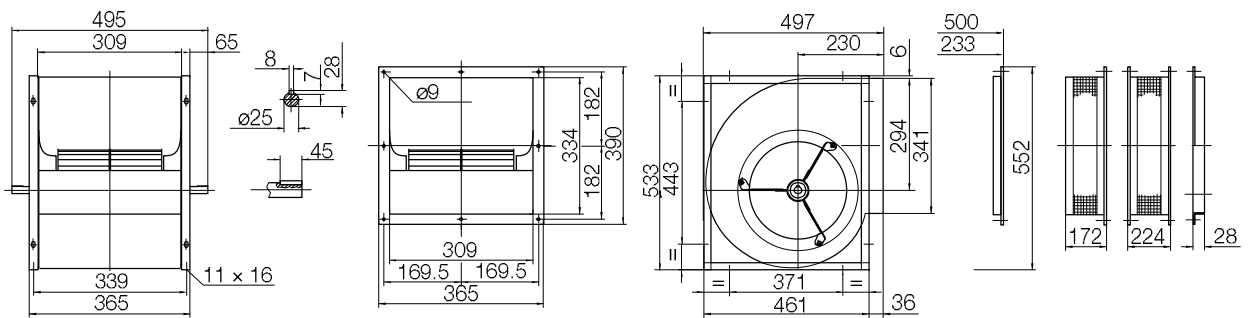
# AT 12/9

Dimensions in mm, subject to change.

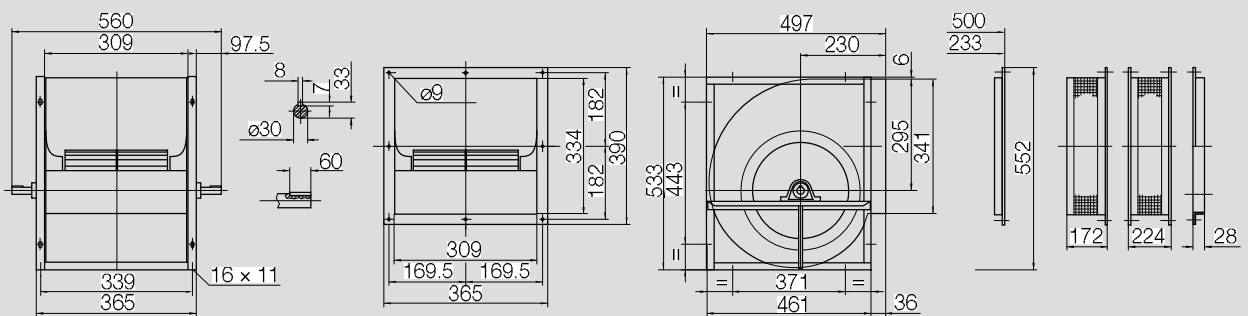
**AT S-12/9** 12.7 kg



**AT SC-12/9** 16 kg



**AT AR-12/9** 16 kg



# AT 12/12

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

## Technical Data

### Impeller Data

|                   |       |                        |
|-------------------|-------|------------------------|
| Impeller diameter | $D_f$ | 322 mm                 |
| Number of blades  | $z$   | 43                     |
| Moment of Inertia | $J$   | 0.118 kgm <sup>2</sup> |

### Impeller Data

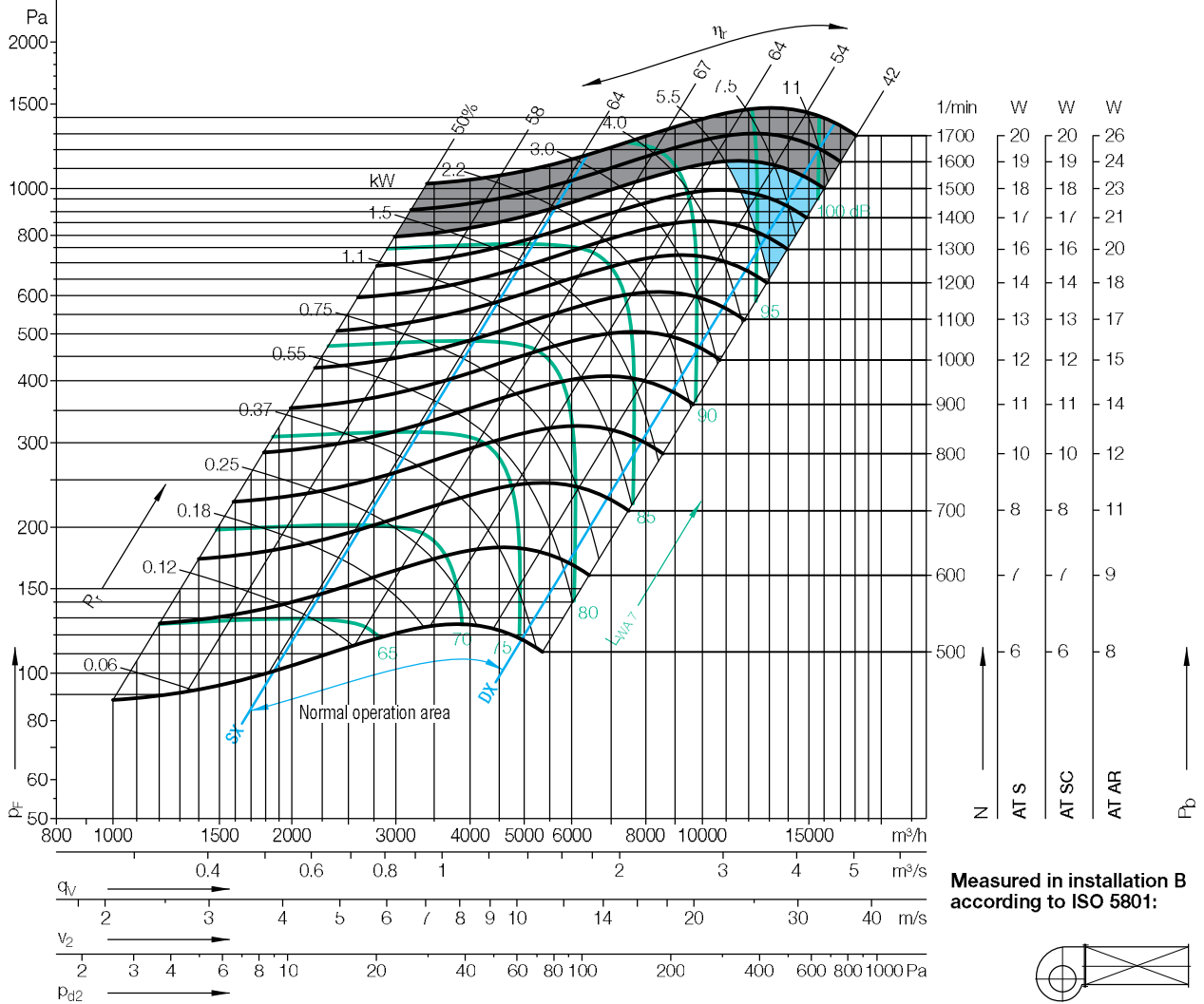
|                             |          |                       |
|-----------------------------|----------|-----------------------|
| Impeller weight             | $m$      | 5.2 kg                |
| Density of media            | $\rho_1$ | 1.2 kg/m <sup>3</sup> |
| Tolerance class (DIN 24166) |          | 2                     |

## Performance Curves

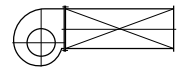
Please note coloured area:  
 □ all types suitable  
 ■ AT AR only  
 ■ do not use in this area



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Measured in installation B according to ISO 5801:



$\Delta L_{Wrel d(A)}$

Relative sound power level for inlet side  $L_{Wrel i7}$  at octave centre frequencies  $f_c$

Relative sound power level for discharge side  $L_{Wrel d}$  at octave centre frequencies  $f_c$

| Duty point  | Speed 1/min | dB |
|-------------|-------------|----|
| SX          | 1400        | 2  |
| SX          | 900         | 2  |
| SX          | 600         | 2  |
| $q_{V opt}$ | 1400        | 2  |
| $q_{V opt}$ | 900         | 2  |
| $q_{V opt}$ | 600         | 1  |
| DX          | 1400        | 2  |
| DX          | 900         | 2  |
| DX          | 600         | 2  |

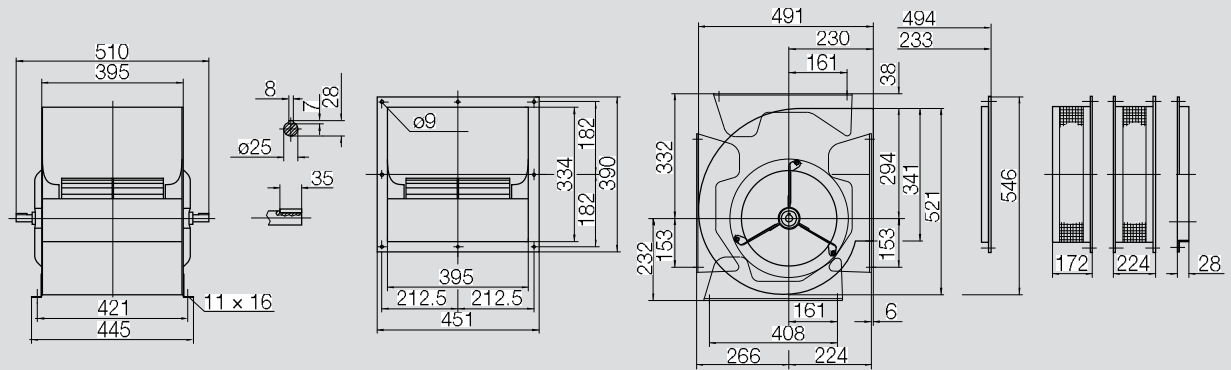
|                  | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|------------------|----|-----|-----|-----|------|------|------|------|----|
| SX 1400          | -6 | 1   | 2   | -7  | -7   | -7   | -9   | -14  | dB |
| SX 900           | -2 | 5   | -4  | -6  | -5   | -7   | -10  | -18  | dB |
| SX 600           | 5  | 3   | -5  | -4  | -4   | -7   | -14  | -21  | dB |
| $q_{V opt}$ 1400 | -3 | -2  | -1  | -7  | -7   | -6   | -8   | -13  | dB |
| $q_{V opt}$ 900  | -2 | 2   | -5  | -6  | -5   | -6   | -9   | -17  | dB |
| $q_{V opt}$ 600  | 2  | 0   | -5  | -5  | -4   | -7   | -12  | -20  | dB |
| DX 1400          | -4 | -4  | -3  | -9  | -8   | -6   | -7   | -10  | dB |
| DX 900           | -4 | -2  | -6  | -8  | -6   | -6   | -8   | -12  | dB |
| DX 600           | -2 | -3  | -8  | -6  | -4   | -7   | -10  | -14  | dB |

|                  | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|------------------|----|-----|-----|-----|------|------|------|------|----|
| SX 1400          | 2  | 6   | 6   | -5  | -6   | -5   | -7   | -13  | dB |
| SX 900           | 4  | 9   | -1  | -4  | -4   | -5   | -8   | -17  | dB |
| SX 600           | 10 | 7   | -2  | -3  | -3   | -5   | -12  | -20  | dB |
| $q_{V opt}$ 1400 | 4  | 3   | 3   | -5  | -5   | -5   | -7   | -11  | dB |
| $q_{V opt}$ 900  | 3  | 5   | -2  | -4  | -4   | -5   | -8   | -16  | dB |
| $q_{V opt}$ 600  | 6  | 3   | -3  | -3  | -3   | -6   | -11  | -20  | dB |
| DX 1400          | 2  | 1   | 0   | -5  | -5   | -4   | -6   | -9   | dB |
| DX 900           | 2  | 2   | -3  | -4  | -4   | -4   | -7   | -11  | dB |
| DX 600           | 2  | 1   | -4  | -3  | -3   | -5   | -8   | -15  | dB |

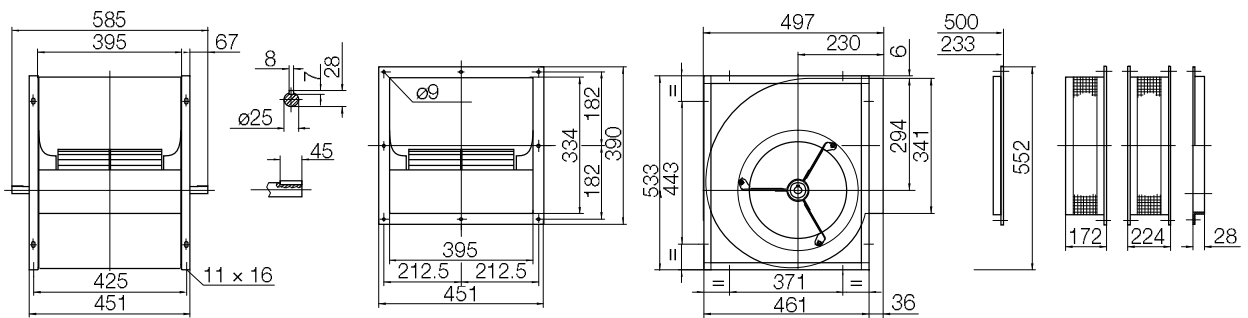
# AT 12/12

Dimensions in mm, subject to change.

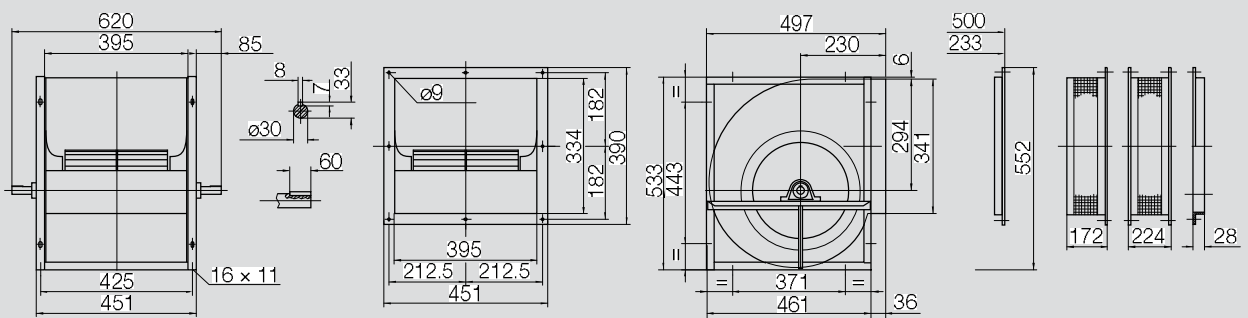
**AT S-12/12** 15.2 kg



**AT SC-12/12** 18.4 kg



**AT AR-12/12** 18.4 kg



# AT 15/11

Performance certified is for installation type B - free inlet, ducted outlet.

Power rating (kW) does not include transmission losses.

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

## Technical Data

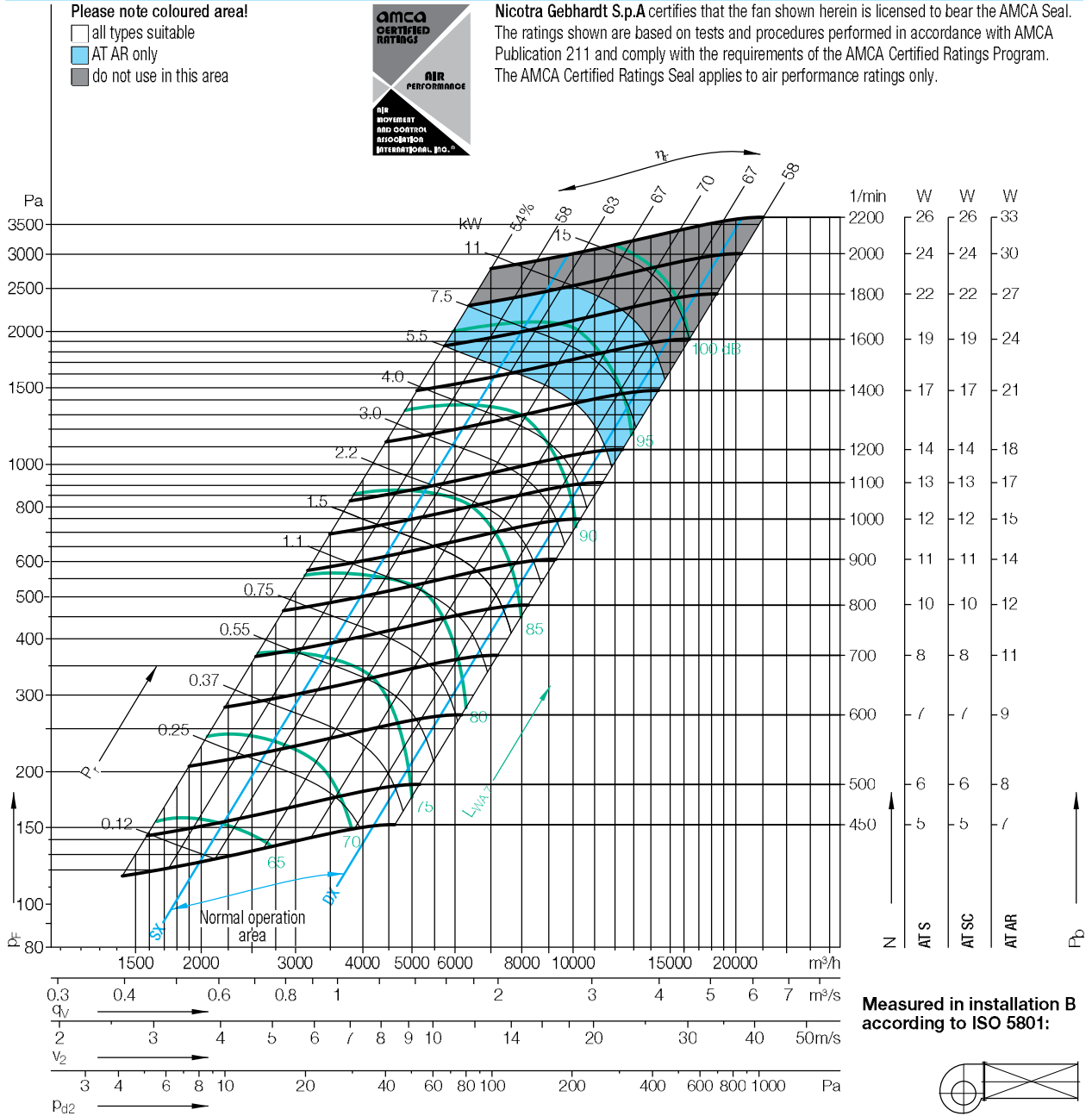
### Impeller Data

|                   |       |                        |
|-------------------|-------|------------------------|
| Impeller diameter | $D_f$ | 381 mm                 |
| Number of blades  | $z$   | 51                     |
| Moment of Inertia | $J$   | 0.186 kgm <sup>2</sup> |

### Impeller Data

|                             |          |                       |
|-----------------------------|----------|-----------------------|
| Impeller weight             | $m$      | 6.2 kg                |
| Density of media            | $\rho_1$ | 1.2 kg/m <sup>3</sup> |
| Tolerance class (DIN 24166) |          | 2                     |

## Performance Curves



$\Delta L_{Wrel d(A)}$

Relative sound power level for inlet side  $L_{Wrel i}$  at octave centre frequencies  $f_c$

Relative sound power level for discharge side  $L_{Wrel d}$  at octave centre frequencies  $f_c$

| Duty point  | Speed 1/min | dB |
|-------------|-------------|----|
| SX          | 1600        | 3  |
| SX          | 1000        | 3  |
| SX          | 600         | 2  |
| $Q_{V opt}$ | 1600        | 2  |
| $Q_{V opt}$ | 1000        | 2  |
| $Q_{V opt}$ | 600         | 1  |
| DX          | 1600        | 2  |
| DX          | 1000        | 2  |
| DX          | 600         | 2  |

|                  | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|------------------|----|-----|-----|-----|------|------|------|------|----|
| SX 1600          | -6 | 2   | 0   | -5  | -6   | -8   | -9   | -12  | dB |
| SX 1000          | -1 | 4   | -3  | -4  | -6   | -7   | -9   | -15  | dB |
| SX 600           | 6  | 0   | -2  | -3  | -6   | -7   | -12  | -18  | dB |
| $Q_{V opt}$ 1600 | -6 | 2   | -2  | -5  | -6   | -8   | -8   | -11  | dB |
| $Q_{V opt}$ 1000 | -2 | 1   | -3  | -5  | -6   | -7   | -9   | -13  | dB |
| $Q_{V opt}$ 600  | 4  | -1  | -3  | -4  | -5   | -6   | -11  | -17  | dB |
| DX 1600          | -7 | -5  | -5  | -8  | -8   | -7   | -6   | -8   | dB |
| DX 1000          | -6 | -4  | -7  | -8  | -7   | -6   | -7   | -10  | dB |
| DX 600           | -3 | -6  | -7  | -6  | -6   | -6   | -8   | -12  | dB |

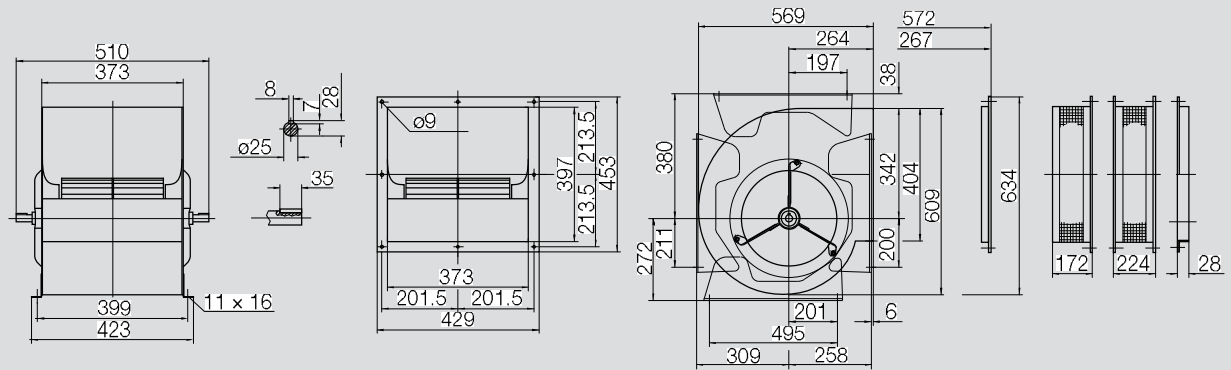
|                  | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|------------------|----|-----|-----|-----|------|------|------|------|----|
| SX 1600          | 3  | 8   | 4   | -2  | -4   | -6   | -7   | -10  | dB |
| SX 1000          | 6  | 8   | 1   | -2  | -4   | -5   | -7   | -13  | dB |
| SX 600           | 11 | 3   | 1   | -1  | -4   | -5   | -10  | -17  | dB |
| $Q_{V opt}$ 1600 | 1  | 7   | 1   | -3  | -5   | -7   | -6   | -9   | dB |
| $Q_{V opt}$ 1000 | 4  | 5   | 0   | -3  | -6   | -5   | -7   | -12  | dB |
| $Q_{V opt}$ 600  | 9  | 2   | -1  | -4  | -4   | -5   | -9   | -16  | dB |
| DX 1600          | -1 | 0   | -1  | -5  | -5   | -5   | -5   | -7   | dB |
| DX 1000          | 0  | 0   | -5  | -5  | -5   | -4   | -6   | -9   | dB |
| DX 600           | 1  | -3  | -4  | -4  | -4   | -4   | -7   | -12  | dB |



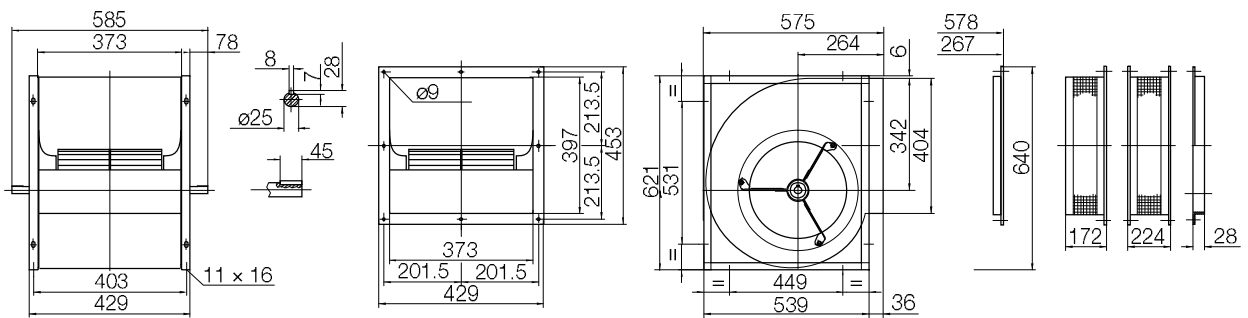
# AT 15/11

Dimensions in mm, subject to change.

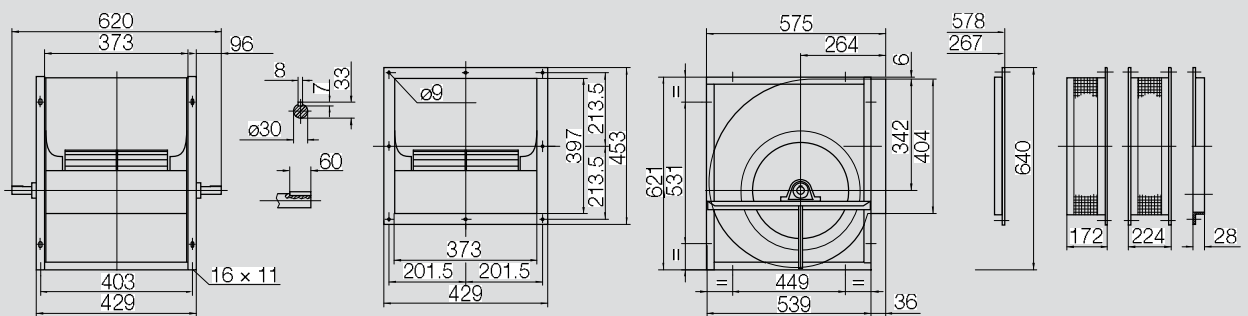
**AT S-15/11** 17.7 kg



**AT SC-15/11** 20.9 kg



**AT AR-15/11** 20.9 kg



# AT 15/15

Performance certified is for installation type B - free inlet, ducted outlet.

Power rating (kW) does not include transmission losses.

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

## Technical Data

### Impeller Data

|                   |       |                        |
|-------------------|-------|------------------------|
| Impeller diameter | $D_f$ | 381 mm                 |
| Number of blades  | $z$   | 51                     |
| Moment of Inertia | $J$   | 0.233 kgm <sup>2</sup> |

### Impeller Data

|                             |          |                       |
|-----------------------------|----------|-----------------------|
| Impeller weight             | $m$      | 7.5 kg                |
| Density of media            | $\rho_1$ | 1.2 kg/m <sup>3</sup> |
| Tolerance class (DIN 24166) |          | 2                     |

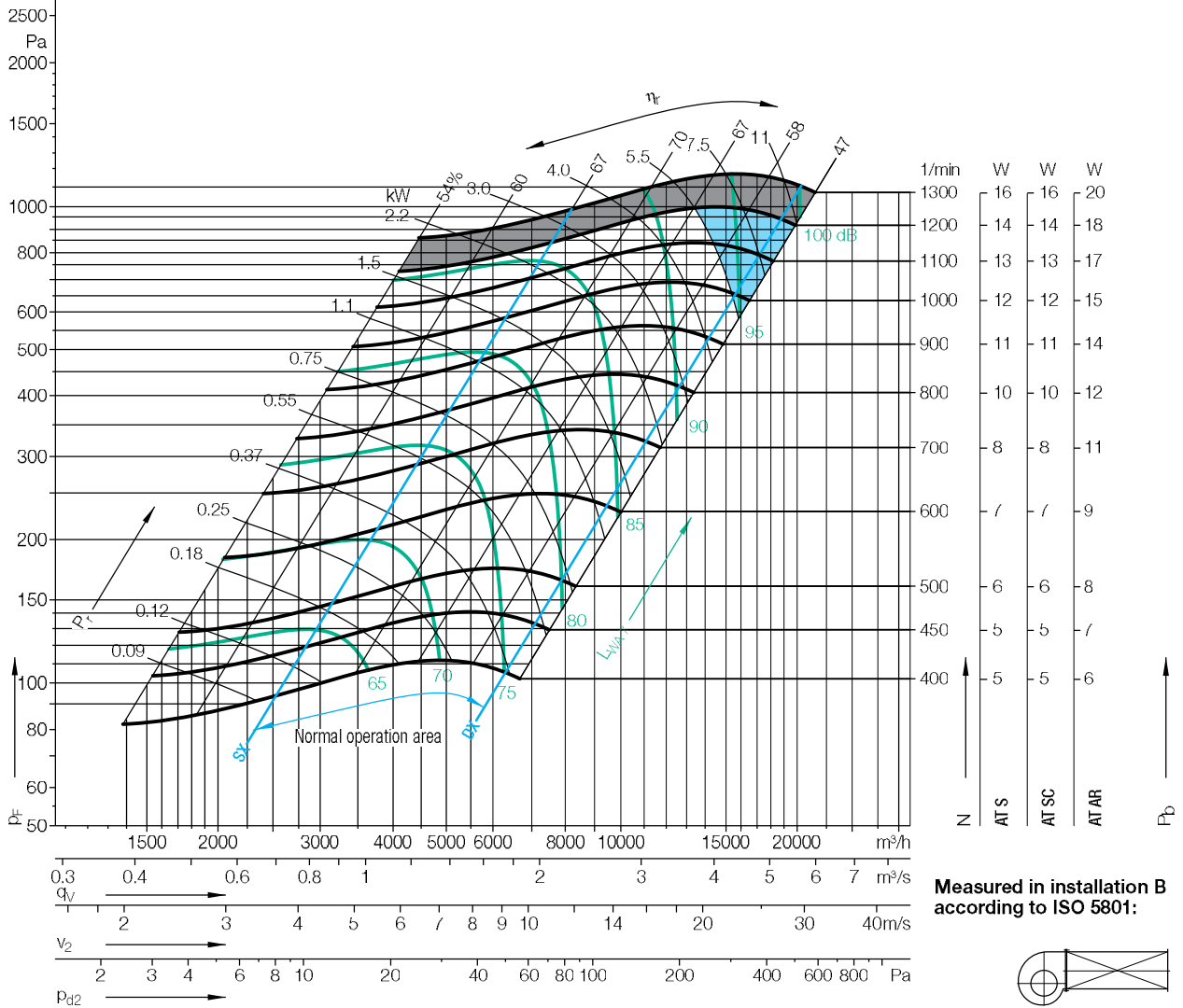
## Performance Curves

Please note coloured area!

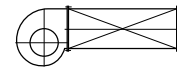
- all types suitable
- AT AR only
- do not use in this area



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Measured in installation B according to ISO 5801:



$\Delta L_{Wrel d(A)}$

Relative sound power level for inlet side  $L_{Wrel i7}$  at octave centre frequencies  $f_c$

Relative sound power level for discharge side  $L_{Wrel d4}$  at octave centre frequencies  $f_c$

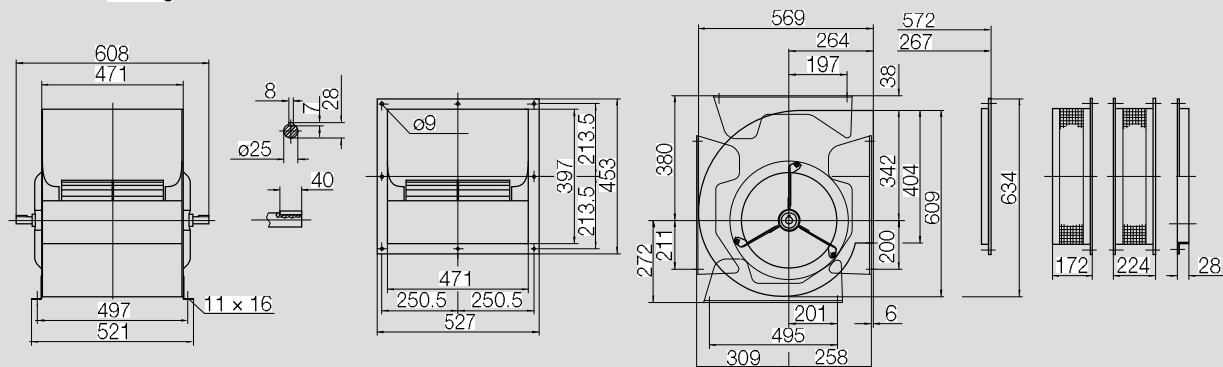
| Duty point  | Speed 1/min | dB |
|-------------|-------------|----|
| SX          | 1100        | 2  |
| SX          | 800         | 2  |
| SX          | 500         | 1  |
| $Q_{V opt}$ | 1100        | 2  |
| $Q_{V opt}$ | 800         | 2  |
| $Q_{V opt}$ | 500         | 2  |
| DX          | 1100        | 2  |
| DX          | 800         | 2  |
| DX          | 500         | 2  |

|                  | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|------------------|----|-----|-----|-----|------|------|------|------|----|
| SX 1100          | -4 | 2   | -3  | -3  | -7   | -8   | -9   | -14  | dB |
| SX 800           | 1  | 2   | -2  | -5  | -6   | -7   | -10  | -16  | dB |
| SX 500           | 5  | -1  | -1  | -4  | -5   | -7   | -12  | -19  | dB |
| $Q_{V opt}$ 1100 | -8 | -1  | -5  | -4  | -7   | -7   | -8   | -12  | dB |
| $Q_{V opt}$ 800  | -3 | -1  | -3  | -5  | -6   | -6   | -9   | -14  | dB |
| $Q_{V opt}$ 500  | 1  | -3  | -2  | -5  | -5   | -6   | -11  | -17  | dB |
| DX 1100          | -4 | -2  | -6  | -6  | -7   | -7   | -7   | -10  | dB |
| DX 800           | -1 | -2  | -5  | -7  | -7   | -6   | -8   | -11  | dB |
| DX 500           | 0  | -6  | -4  | -7  | -5   | -6   | -9   | -14  | dB |

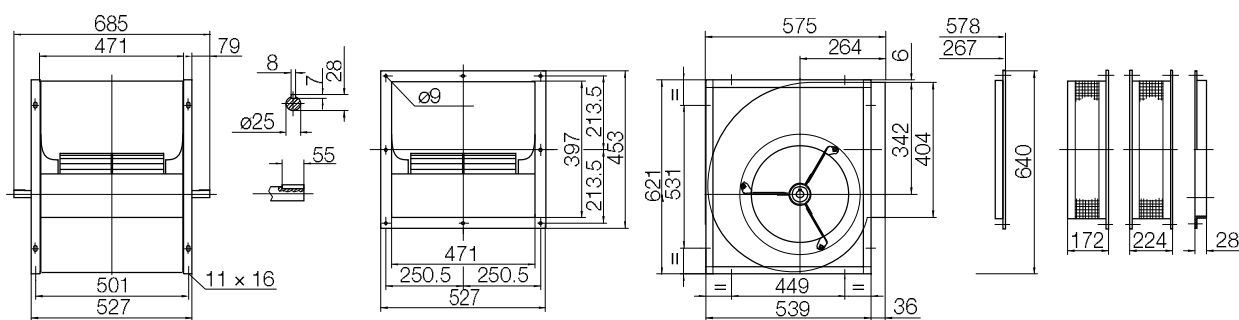
|                  | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|------------------|----|-----|-----|-----|------|------|------|------|----|
| SX 1100          | 2  | 6   | 0   | -1  | -6   | -6   | -7   | -12  | dB |
| SX 800           | 6  | 5   | 1   | -4  | -5   | -5   | -8   | -15  | dB |
| SX 500           | 8  | 2   | 1   | -4  | -4   | -5   | -11  | -19  | dB |
| $Q_{V opt}$ 1100 | -2 | 2   | -2  | -1  | -5   | -6   | -7   | -11  | dB |
| $Q_{V opt}$ 800  | 2  | 2   | 0   | -3  | -5   | -5   | -8   | -13  | dB |
| $Q_{V opt}$ 500  | 4  | 0   | 1   | -4  | -4   | -5   | -10  | -17  | dB |
| DX 1100          | 2  | 2   | -3  | -2  | -5   | -5   | -6   | -9   | dB |
| DX 800           | 3  | 1   | -3  | -4  | -4   | -4   | -6   | -11  | dB |
| DX 500           | 3  | -3  | -1  | -4  | -3   | -5   | -8   | -14  | dB |

# AT 15/15

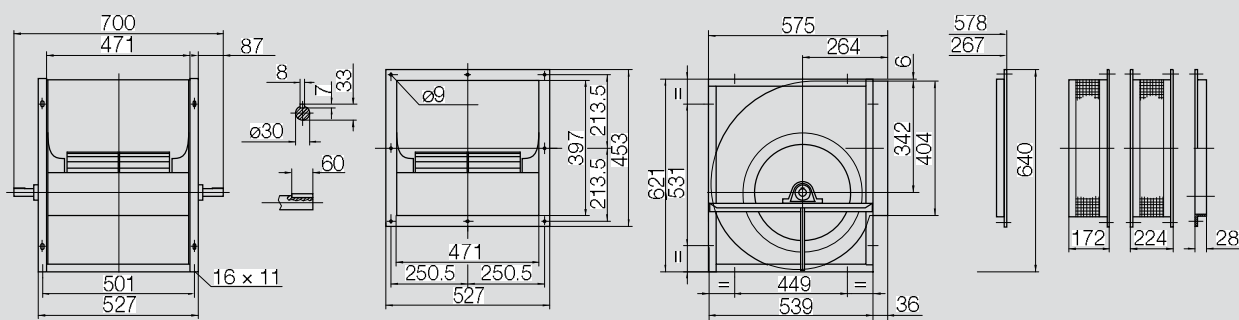
Dimensions in mm, subject to change.  
**AT S-15/15** 20.6 kg



**AT SC-15/15** 24.5 kg



**AT AR-15/15** 24.5 kg



# AT 18/13

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

## Technical Data

### Impeller Data

|                   |       |                        |
|-------------------|-------|------------------------|
| Impeller diameter | $D_f$ | 459 mm                 |
| Number of blades  | $z$   | 48                     |
| Moment of Inertia | $J$   | 0.463 kgm <sup>2</sup> |

### Impeller Data

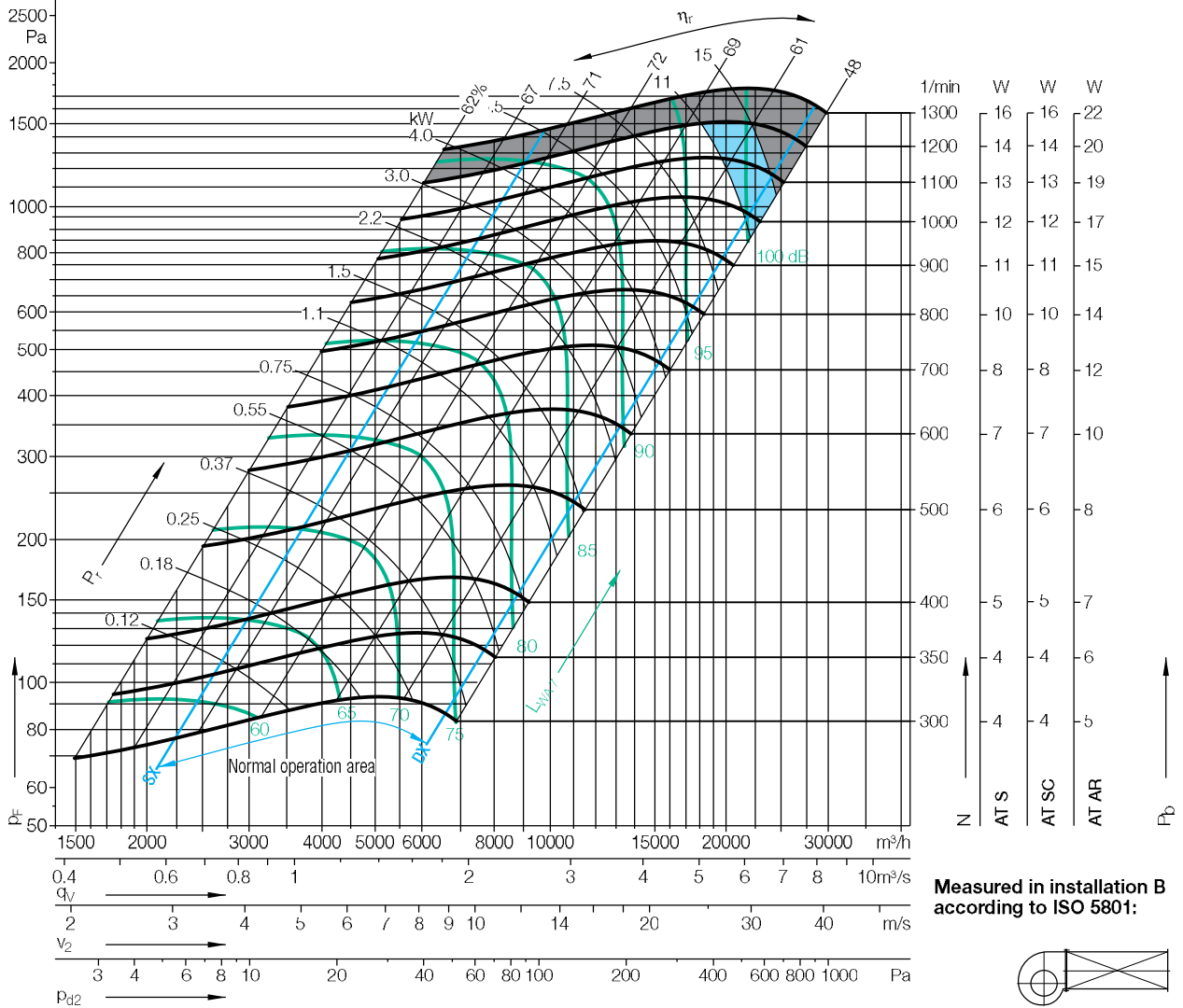
|                             |          |                       |
|-----------------------------|----------|-----------------------|
| Impeller weight             | $m$      | 10.5 kg               |
| Density of media            | $\rho_1$ | 1.2 kg/m <sup>3</sup> |
| Tolerance class (DIN 24166) |          | 2                     |

## Performance Curves

Please note coloured area:  
 □ all types suitable  
 ■ AT AR only  
 ■ do not use in this area



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Measured in installation B according to ISO 5801:

$\Delta L_{Wrel d(A)}$

Relative sound power level for inlet side  $L_{Wrel i7}$  at octave centre frequencies  $f_c$

Relative sound power level for discharge side  $L_{Wrel d4}$  at octave centre frequencies  $f_c$

| Duty point  | Speed 1/min | dB |
|-------------|-------------|----|
| SX          | 1100        | 3  |
| SX          | 700         | 2  |
| SX          | 400         | 2  |
| $Q_{V opt}$ | 1100        | 2  |
| $Q_{V opt}$ | 700         | 2  |
| $Q_{V opt}$ | 400         | 2  |
| DX          | 1100        | 2  |
| DX          | 700         | 2  |
| DX          | 400         | 2  |

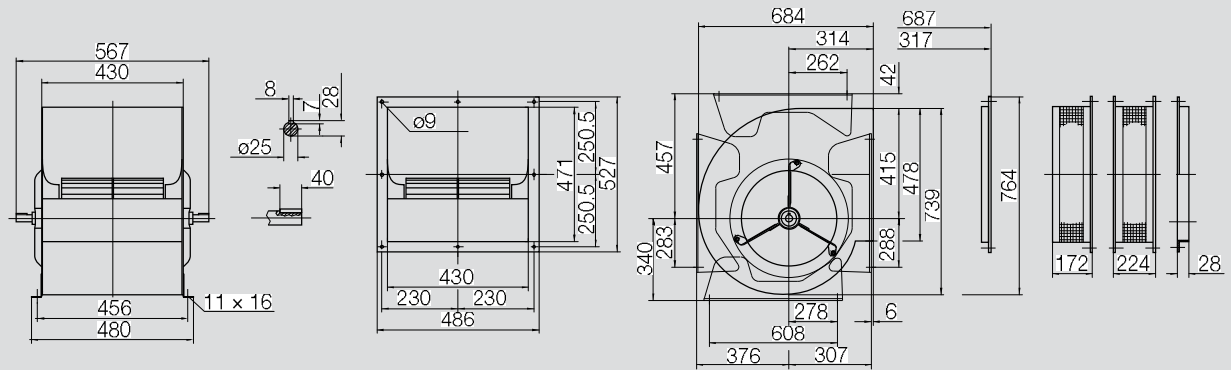
|    | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|----|----|-----|-----|-----|------|------|------|------|----|
| 1  | 6  | 0   | -7  | -6  | -9   | -9   | -14  |      | dB |
| 7  | 5  | -4  | -4  | -7  | -7   | -10  | -17  |      | dB |
| 8  | -1 | -3  | -4  | -5  | -7   | -13  | -21  |      | dB |
| -3 | 1  | 1   | -7  | -6  | -8   | -8   | -12  |      | dB |
| 2  | 3  | -5  | -5  | -7  | -6   | -9   | -15  |      | dB |
| 6  | -2 | -3  | -5  | -5  | -6   | -13  | -19  |      | dB |
| -8 | -3 | -7  | -10 | -5  | -7   | -6   | -10  |      | dB |
| -3 | -4 | -9  | -5  | -7  | -6   | -8   | -12  |      | dB |
| -2 | -8 | -4  | -6  | -5  | -6   | -10  | -15  |      | dB |

|    | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|----|----|-----|-----|-----|------|------|------|------|----|
| 8  | 11 | 3   | -5  | -4  | -6   | -6   | -11  |      | dB |
| 13 | 9  | -2  | -3  | -5  | -4   | -7   | -15  |      | dB |
| 12 | 1  | -1  | -2  | -3  | -4   | -12  | -21  |      | dB |
| 5  | 6  | 4   | -4  | -5  | -7   | -6   | -11  |      | dB |
| 8  | 7  | -2  | -3  | -6  | -4   | -7   | -14  |      | dB |
| 10 | 1  | -2  | -4  | -3  | -5   | -11  | -20  |      | dB |
| -2 | 2  | -3  | -6  | -3  | -6   | -5   | -9   |      | dB |
| 2  | -1 | -6  | -2  | -5  | -4   | -7   | -12  |      | dB |
| 2  | -4 | -1  | -4  | -3  | -5   | -10  | -16  |      | dB |

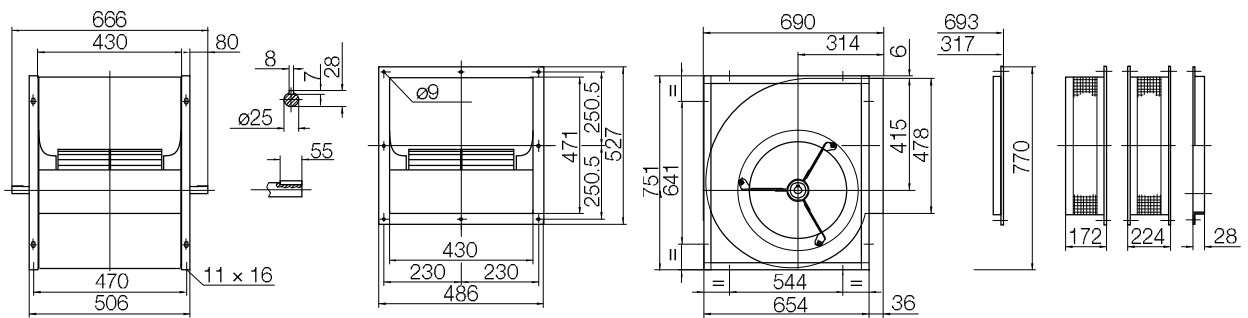
# AT 18/13

Dimensions in mm, subject to change.

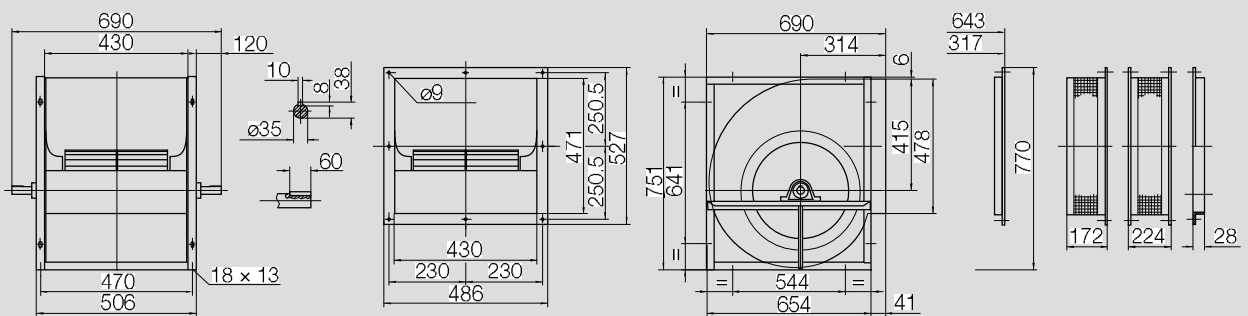
**AT S-18/13** 27 kg



**AT SC-18/13** 33 kg



**AT AR-18/13** 33 kg



# AT 18/18

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

## Technical Data

### Impeller Data

|                   |       |                        |
|-------------------|-------|------------------------|
| Impeller diameter | $D_f$ | 459 mm                 |
| Number of blades  | $z$   | 48                     |
| Moment of Inertia | $J$   | 0.568 kgm <sup>2</sup> |

### Impeller Data

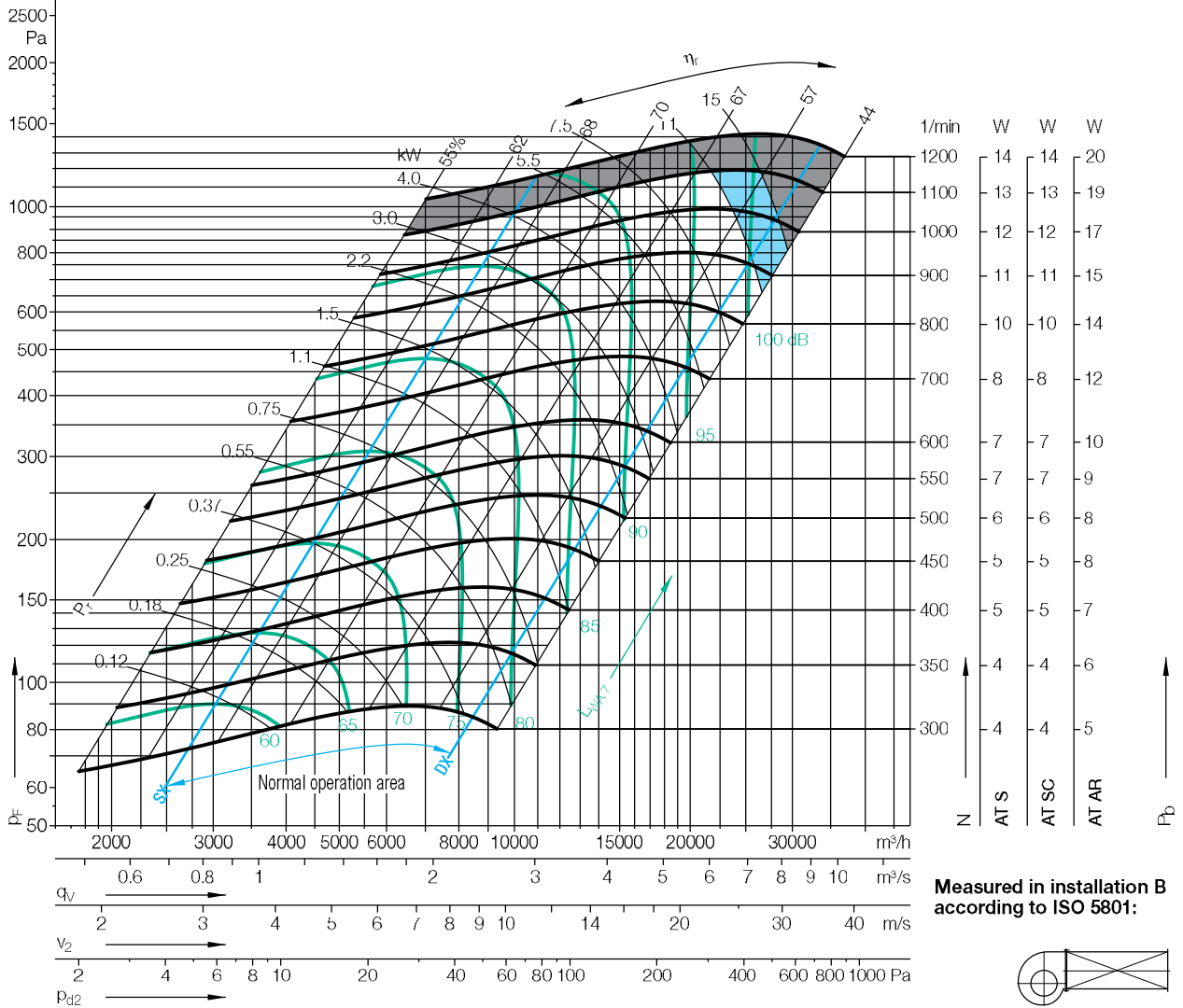
|                             |          |                       |
|-----------------------------|----------|-----------------------|
| Impeller weight             | $m$      | 15.2 kg               |
| Density of media            | $\rho_1$ | 1.2 kg/m <sup>3</sup> |
| Tolerance class (DIN 24166) |          | 2                     |

## Performance Curves

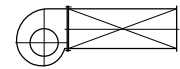
Please note coloured area!  
 □ all types suitable  
 ■ AT AR only  
 ■ do not use in this area



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Measured in installation B according to ISO 5801:



$\Delta L_{Wrel4}(A)$

Relative sound power level for inlet side  $L_{Wrel7}$  at octave centre frequencies  $f_c$

Relative sound power level for discharge side  $L_{Wrel4}$  at octave centre frequencies  $f_c$

| Duty point  | Speed 1/min | dB |
|-------------|-------------|----|
| SX          | 1000        | 2  |
| SX          | 700         | 2  |
| SX          | 400         | 2  |
| $q_{v,opt}$ | 1000        | 2  |
| $q_{v,opt}$ | 700         | 2  |
| $q_{v,opt}$ | 400         | 1  |
| DX          | 1000        | 2  |
| DX          | 700         | 2  |
| DX          | 400         | 1  |

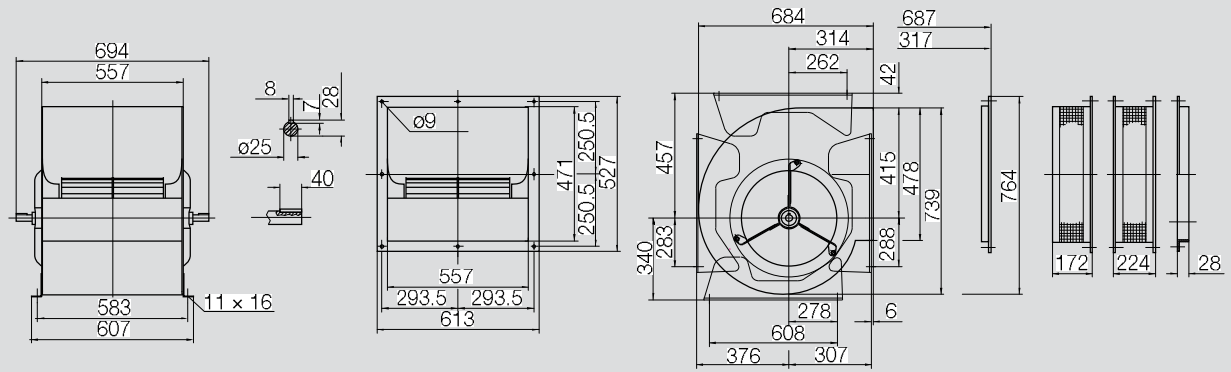
|    | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|----|----|-----|-----|-----|------|------|------|------|----|
| 2  | 5  | -1  | -5  | -6  | -8   | -10  | -15  |      | dB |
| 6  | 4  | -2  | -4  | -6  | -8   | -10  | -17  |      | dB |
| 7  | 1  | -2  | -3  | -5  | -7   | -13  | -21  |      | dB |
| -3 | 0  | -2  | -5  | -6  | -7   | -8   | -13  |      | dB |
| 0  | 0  | -3  | -4  | -6  | -7   | -9   | -16  |      | dB |
| 2  | -1 | -3  | -4  | -5  | -6   | -13  | -20  |      | dB |
| -5 | -6 | -8  | -7  | -6  | -7   | -6   | -9   |      | dB |
| -5 | -7 | -8  | -6  | -7  | -6   | -7   | -11  |      | dB |
| -6 | -7 | -5  | -6  | -5  | -6   | -9   | -16  |      | dB |

|    | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|----|----|-----|-----|-----|------|------|------|------|----|
| 8  | 10 | 3   | -2  | -4  | -7   | -8   | -13  |      | dB |
| 12 | 8  | 2   | -2  | -4  | -6   | -9   | -16  |      | dB |
| 11 | 4  | 0   | -2  | -4  | -6   | -12  | -21  |      | dB |
| 3  | 4  | 1   | -2  | -5  | -6   | -7   | -12  |      | dB |
| 5  | 3  | 0   | -3  | -5  | -5   | -8   | -15  |      | dB |
| 5  | 2  | -1  | -3  | -3  | -5   | -12  | -21  |      | dB |
| 1  | -2 | -4  | -4  | -4  | -5   | -5   | -8   |      | dB |
| 0  | -3 | -4  | -3  | -5  | -5   | -6   | -11  |      | dB |
| -2 | -4 | -2  | -4  | -4  | -4   | -9   | -17  |      | dB |

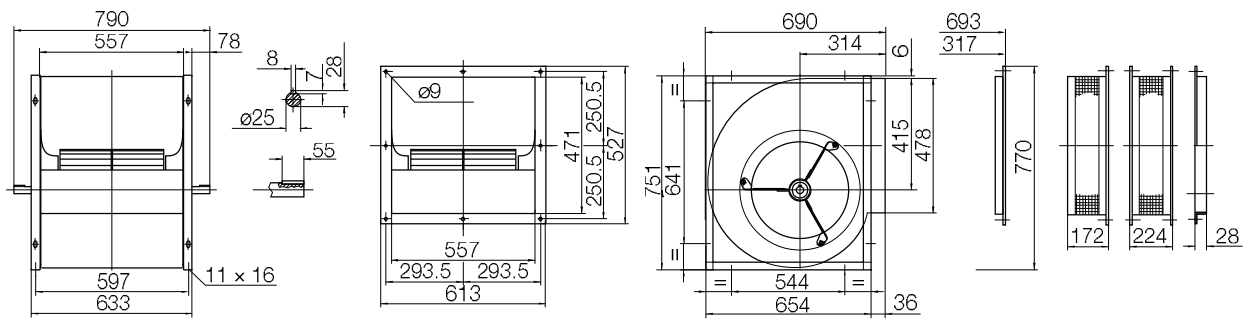
# AT 18/18

Dimensions in mm, subject to change.

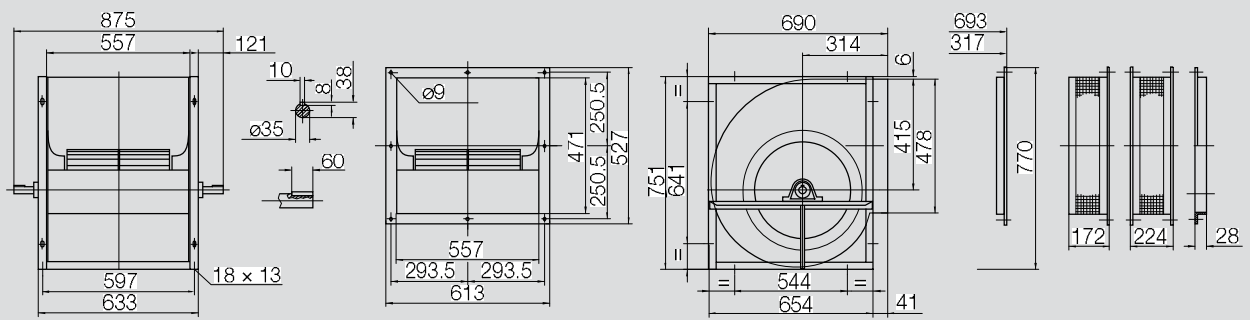
**AT S-18/18** 32.5 kg



**AT SC-18/18** 38.2 kg



**AT AR-18/18** 38.2 kg





# AT 20/15

Performance certified is for installation type B - free inlet, ducted outlet.

Power rating (kW) does not include transmission losses.

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

## Technical Data

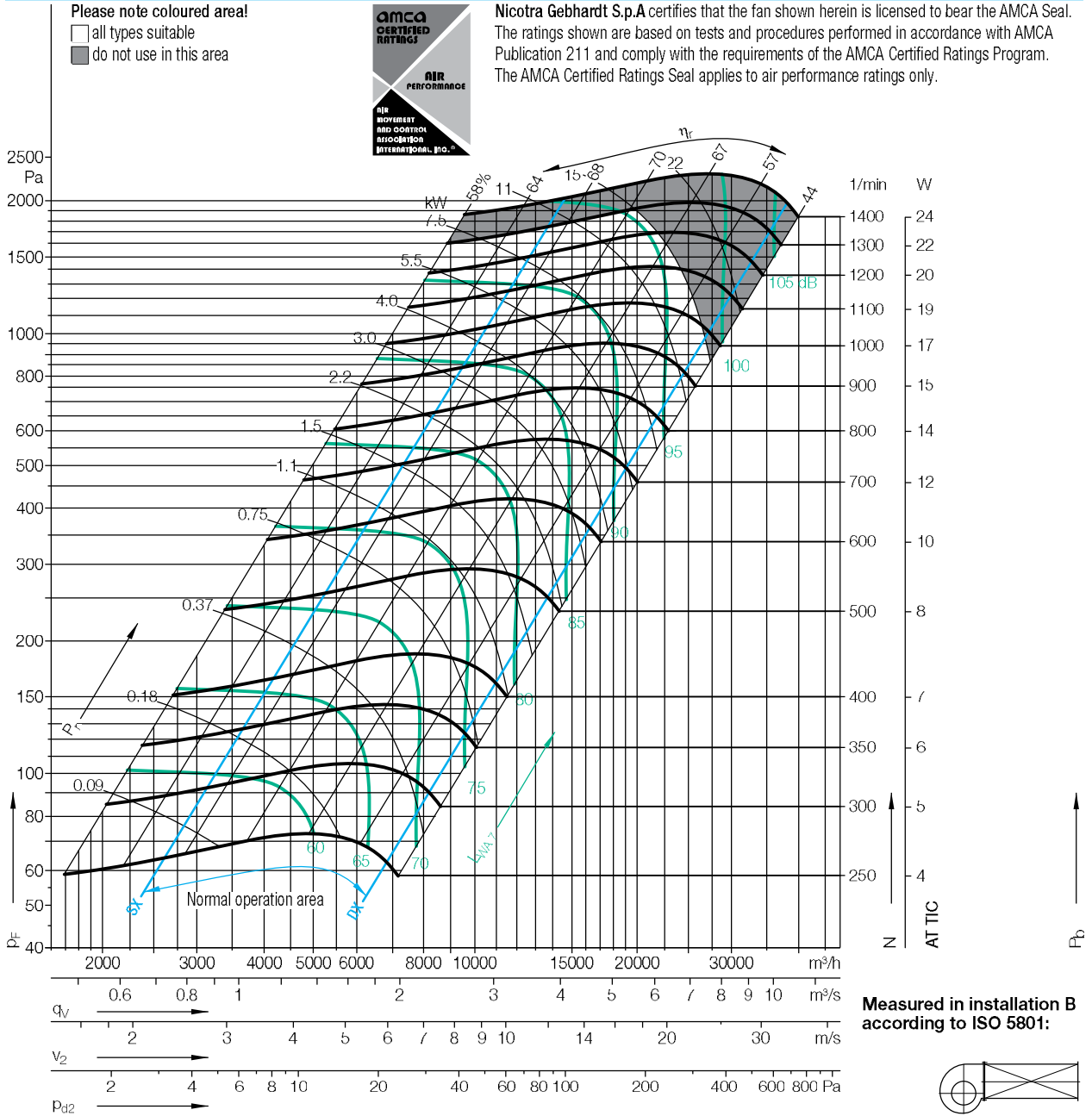
### Impeller Data

|                   |       |                        |
|-------------------|-------|------------------------|
| Impeller diameter | $D_f$ | 516 mm                 |
| Number of blades  | $z$   | 42                     |
| Moment of Inertia | $J$   | 1.026 kgm <sup>2</sup> |

### Impeller Data

|                             |          |                       |
|-----------------------------|----------|-----------------------|
| Impeller weight             | $m$      | 17.7 kg               |
| Density of media            | $\rho_1$ | 1.2 kg/m <sup>3</sup> |
| Tolerance class (DIN 24166) |          | 2                     |

## Performance Curves



$\Delta L_{Wrel4}(A)$

Relative sound power level for inlet side  $L_{Wrel17}$  at octave centre frequencies  $f_c$

Relative sound power level for discharge side  $L_{Wrel4}$  at octave centre frequencies  $f_c$

| Duty point  | Speed 1/min | dB |
|-------------|-------------|----|
| SX          | 1100        | 3  |
| SX          | 700         | 3  |
| SX          | 400         | 2  |
| $Q_{V,opt}$ | 1100        | 2  |
| $Q_{V,opt}$ | 700         | 2  |
| $Q_{V,opt}$ | 400         | 2  |
| DX          | 1100        | 2  |
| DX          | 700         | 2  |
| DX          | 400         | 2  |

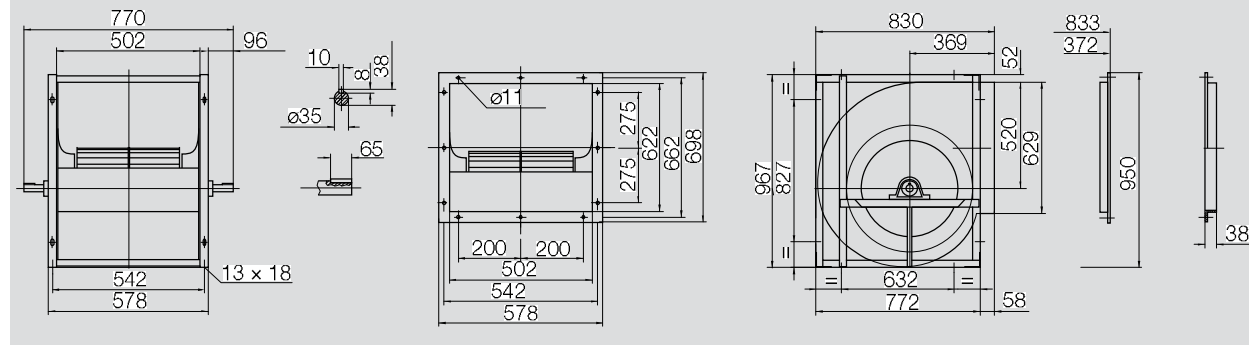
|    | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|----|----|-----|-----|-----|------|------|------|------|----|
| 3  | 4  | 3   | -4  | -7  | -10  | -11  | -14  |      | dB |
| 6  | 6  | -1  | -4  | -7  | -8   | -11  | -16  |      | dB |
| 9  | 1  | -1  | -4  | -5  | -8   | -12  | -18  |      | dB |
| 0  | 1  | 0   | -4  | -6  | -9   | -10  | -13  |      | dB |
| 2  | 4  | -1  | -3  | -7  | -8   | -10  | -15  |      | dB |
| 6  | 1  | 0   | -4  | -5  | -8   | -12  | -17  |      | dB |
| -1 | -4 | -4  | -4  | -5  | -8   | -10  | -13  |      | dB |
| -2 | -1 | -3  | -3  | -6  | -7   | -11  | -14  |      | dB |
| 1  | -2 | 0   | -4  | -5  | -8   | -11  | -16  |      | dB |

|    | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|----|----|-----|-----|-----|------|------|------|------|----|
| 10 | 10 | 6   | -1  | -5  | -8   | -9   | -12  |      | dB |
| 12 | 10 | 2   | -2  | -4  | -6   | -8   | -14  |      | dB |
| 13 | 4  | 2   | -2  | -3  | -5   | -11  | -18  |      | dB |
| 5  | 6  | 4   | -1  | -5  | -8   | -9   | -12  |      | dB |
| 7  | 7  | 1   | -2  | -5  | -6   | -9   | -14  |      | dB |
| 10 | 3  | 2   | -3  | -4  | -6   | -11  | -17  |      | dB |
| 4  | 1  | 0   | -1  | -3  | -6   | -8   | -11  |      | dB |
| 3  | 2  | 0   | 0   | -4  | -6   | -9   | -14  |      | dB |
| 4  | 1  | 2   | -2  | -4  | -7   | -11  | -18  |      | dB |

# AT 20/15

Dimensions in mm, subject to change.

AT TIC-20/15 71 kg



# AT 20/20

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

## Technical Data

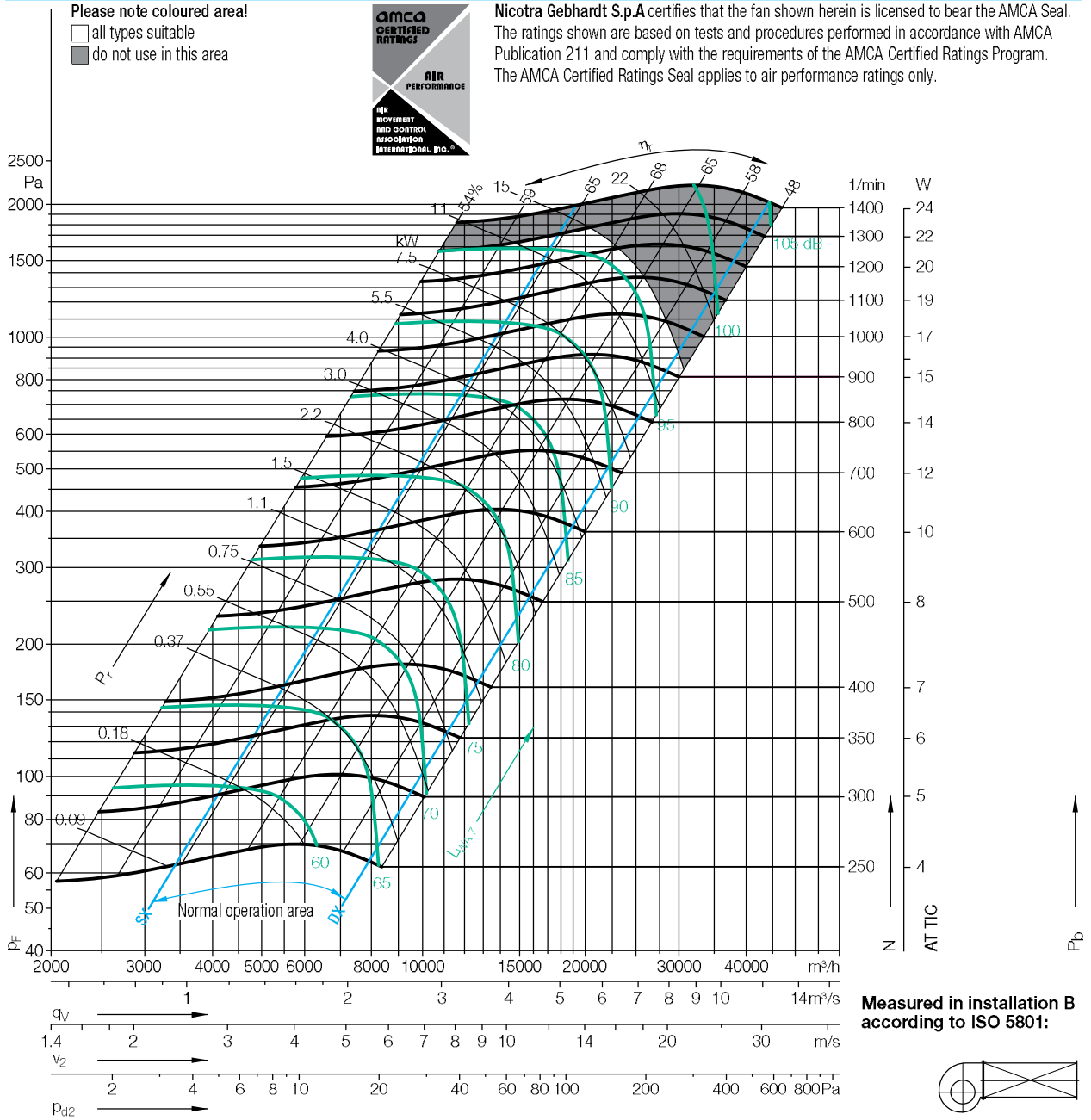
### Impeller Data

|                   |       |                        |
|-------------------|-------|------------------------|
| Impeller diameter | $D_f$ | 516 mm                 |
| Number of blades  | $z$   | 42                     |
| Moment of Inertia | $J$   | 1.175 kgm <sup>2</sup> |

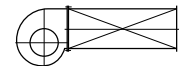
### Impeller Data

|                             |          |                       |
|-----------------------------|----------|-----------------------|
| Impeller weight             | $m$      | 20 kg                 |
| Density of media            | $\rho_1$ | 1.2 kg/m <sup>3</sup> |
| Tolerance class (DIN 24166) |          | 2                     |

## Performance Curves



Measured in installation B according to ISO 5801:



$\Delta L_{Wrel,d}(A)$

Relative sound power level for inlet side  $L_{Wrel,i}$  at octave centre frequencies  $f_c$

Relative sound power level for discharge side  $L_{Wrel,d}$  at octave centre frequencies  $f_c$

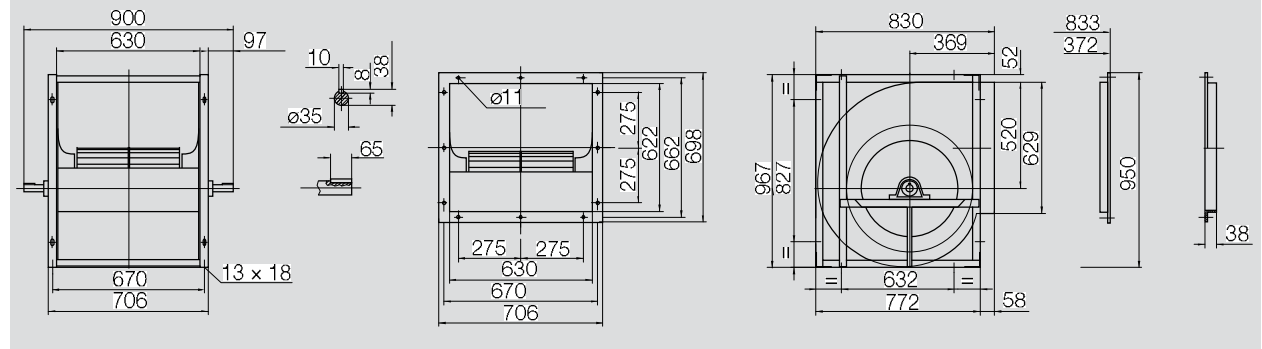
| Duty point  | Speed 1/min | dB |
|-------------|-------------|----|
| SX          | 1100        | 3  |
| SX          | 700         | 3  |
| SX          | 400         | 2  |
| $q_{V,opt}$ | 1100        | 3  |
| $q_{V,opt}$ | 700         | 2  |
| $q_{V,opt}$ | 400         | 2  |
| DX          | 1100        | 3  |
| DX          | 700         | 2  |
| DX          | 400         | 2  |

|  | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|--|----|-----|-----|-----|------|------|------|------|----|
|  | 8  | 2   | 5   | -4  | -9   | -12  | -14  | -18  | dB |
|  | 11 | 8   | -1  | -2  | -9   | -10  | -13  | -19  | dB |
|  | 12 | 4   | 2   | -5  | -6   | -8   | -14  | -20  | dB |
|  | 3  | -1  | 5   | -4  | -8   | -11  | -12  | -17  | dB |
|  | 6  | 7   | -1  | -2  | -8   | -9   | -12  | -18  | dB |
|  | 10 | 3   | 2   | -4  | -6   | -8   | -13  | -20  | dB |
|  | -2 | -5  | 1   | -3  | -6   | -9   | -10  | -14  | dB |
|  | 0  | 2   | -2  | -3  | -6   | -7   | -11  | -16  | dB |
|  | 4  | 0   | 0   | -4  | -5   | -8   | -12  | -18  | dB |

|  | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|--|----|-----|-----|-----|------|------|------|------|----|
|  | 13 | 8   | 9   | -1  | -8   | -11  | -12  | -16  | dB |
|  | 17 | 13  | 2   | 0   | -8   | -8   | -11  | -18  | dB |
|  | 16 | 7   | 4   | -4  | -4   | -7   | -13  | -21  | dB |
|  | 8  | 4   | 9   | -1  | -6   | -10  | -11  | -15  | dB |
|  | 12 | 12  | 2   | 0   | -7   | -8   | -11  | -17  | dB |
|  | 15 | 6   | 4   | -3  | -5   | -7   | -12  | -21  | dB |
|  | 1  | 1   | 5   | 0   | -4   | -7   | -8   | -14  | dB |
|  | 5  | 7   | 2   | 0   | -4   | -6   | -10  | -15  | dB |
|  | 9  | 4   | 3   | -2  | -4   | -7   | -12  | -19  | dB |

# AT 20/20

Dimensions in mm, subject to change.  
 AT TIC-20/20 78 kg



# AT 22/15

Performance certified is for installation type B - free inlet, ducted outlet.

Power rating (kW) does not include transmission losses.

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

## Technical Data

### Impeller Data

|                   |       |                        |
|-------------------|-------|------------------------|
| Impeller diameter | $D_f$ | 566 mm                 |
| Number of blades  | $z$   | 48                     |
| Moment of Inertia | $J$   | 1.370 kgm <sup>2</sup> |

### Impeller Data

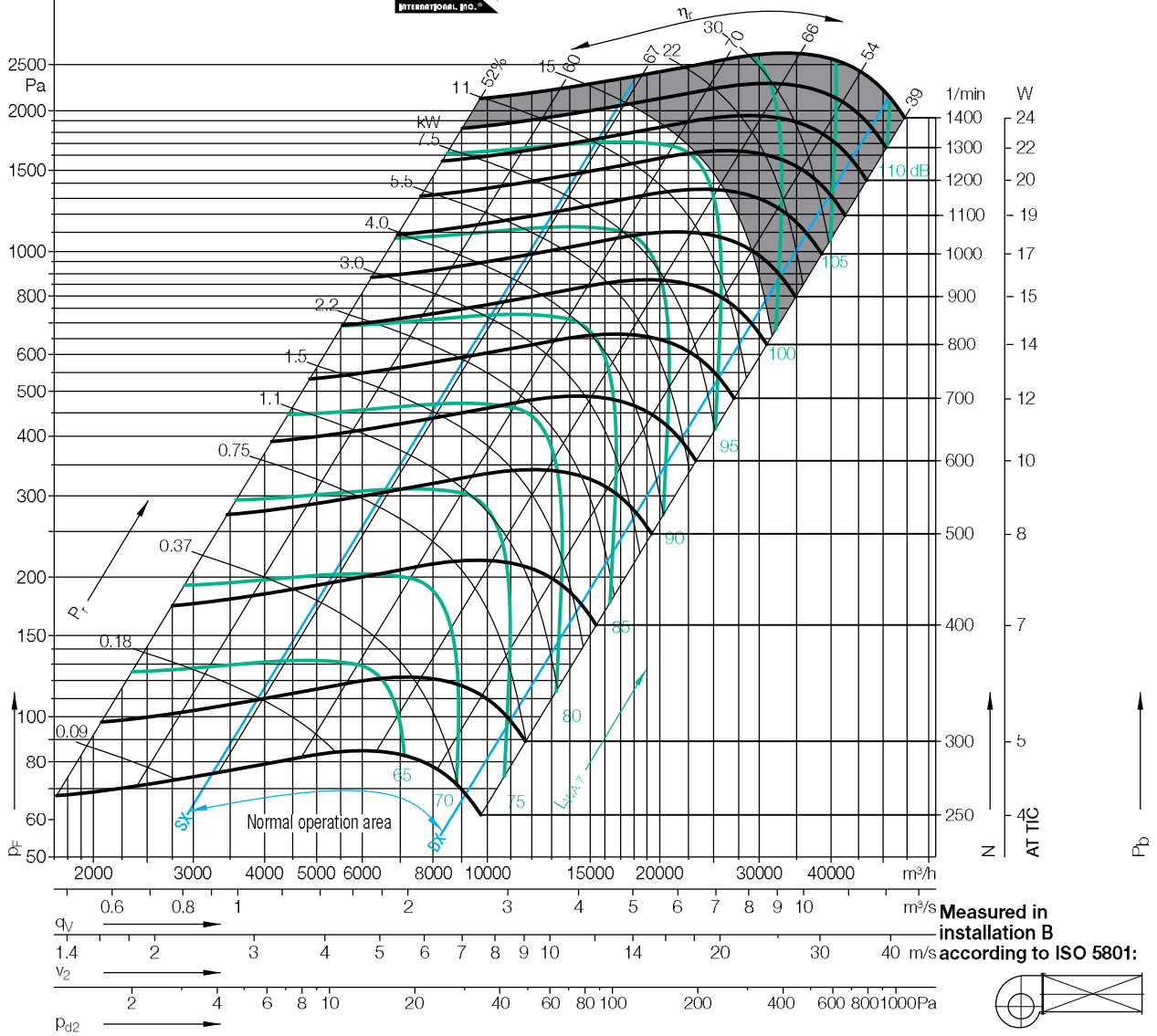
|                             |          |                       |
|-----------------------------|----------|-----------------------|
| Impeller weight             | $m$      | 20 kg                 |
| Density of media            | $\rho_1$ | 1.2 kg/m <sup>3</sup> |
| Tolerance class (DIN 24166) |          | 2                     |

## Performance Curves

Please note coloured area:  
 □ all types suitable  
 ■ do not use in this area



Nicotra Gebhardt S.p.A certifies that the fan 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. The AMCA Certified Ratings Seal applies to air performance ratings only.



Measured in installation B according to ISO 5801:

$\Delta L_{Wrel4}(A)$

Relative sound power level for inlet side  $L_{Wrel17}$  at octave centre frequencies  $f_c$

Relative sound power level for discharge side  $L_{Wrel4}$  at octave centre frequencies  $f_c$

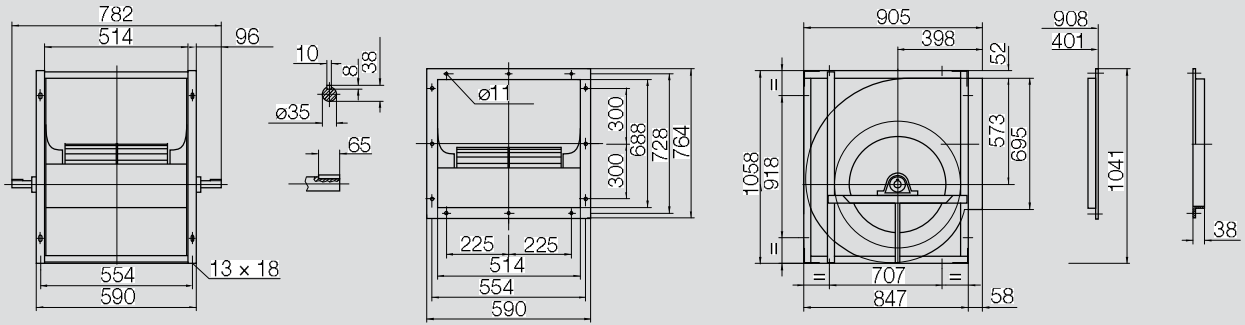
| Duty point  | Speed 1/min | dB |
|-------------|-------------|----|
| SX          | 1100        | 3  |
| SX          | 700         | 3  |
| SX          | 400         | 2  |
| $q_{V,opt}$ | 1100        | 2  |
| $q_{V,opt}$ | 700         | 2  |
| $q_{V,opt}$ | 400         | 2  |
| DX          | 1100        | 2  |
| DX          | 700         | 2  |
| DX          | 400         | 2  |

|  | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|--|----|-----|-----|-----|------|------|------|------|----|
|  | 2  | 3   | 3   | -6  | -6   | -9   | -11  | -15  | dB |
|  | 4  | 6   | -3  | -3  | -6   | -8   | -12  | -17  | dB |
|  | 9  | 1   | -1  | -3  | -5   | -9   | -13  | -18  | dB |
|  | 0  | 0   | 1   | -5  | -5   | -9   | -11  | -14  | dB |
|  | 2  | 3   | -3  | -2  | -6   | -8   | -11  | -15  | dB |
|  | 6  | 0   | 0   | -3  | -6   | -8   | -12  | -16  | dB |
|  | -5 | -4  | -2  | -6  | -4   | -8   | -9   | -13  | dB |
|  | -4 | 0   | -5  | -2  | -6   | -7   | -10  | -13  | dB |
|  | 2  | -3  | -1  | -3  | -6   | -8   | -10  | -14  | dB |

|  | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|--|----|-----|-----|-----|------|------|------|------|----|
|  | 8  | 9   | 7   | -3  | -4   | -6   | -9   | -13  | dB |
|  | 11 | 11  | 0   | -1  | -4   | -6   | -9   | -15  | dB |
|  | 14 | 4   | 1   | -1  | -3   | -6   | -11  | -18  | dB |
|  | 5  | 6   | 5   | -2  | -4   | -7   | -9   | -12  | dB |
|  | 8  | 8   | 0   | -1  | -5   | -7   | -9   | -14  | dB |
|  | 11 | 3   | 1   | -2  | -4   | -7   | -11  | -17  | dB |
|  | 11 | 3   | 1   | -2  | -4   | -7   | -11  | -17  | dB |
|  | 2  | 4   | -2  | 0   | -4   | -6   | -9   | -12  | dB |
|  | 7  | 1   | 2   | -1  | -4   | -7   | -10  | -16  | dB |

# AT 22/15

Dimensions in mm, subject to change.  
 AT TIC-22/15 73 kg



# AT 22/22

Performance certified is for installation type B - free inlet, ducted outlet.

Power rating (kW) does not include transmission losses.

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

## Technical Data

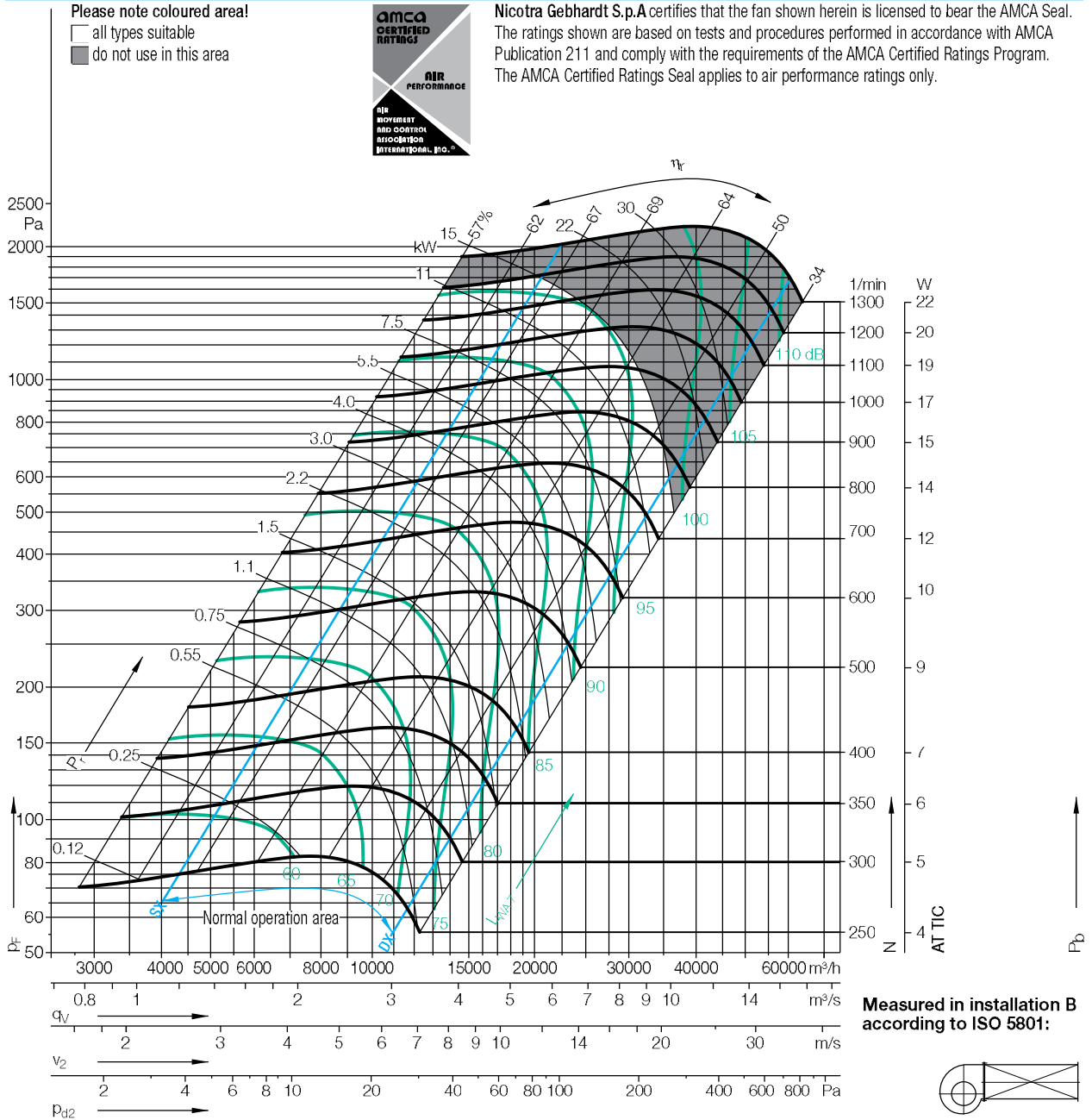
### Impeller Data

|                   |       |                        |
|-------------------|-------|------------------------|
| Impeller diameter | $D_f$ | 566 mm                 |
| Number of blades  | $z$   | 48                     |
| Moment of Inertia | $J$   | 1.729 kgm <sup>2</sup> |

### Impeller Data

|                             |          |                       |
|-----------------------------|----------|-----------------------|
| Impeller weight             | $m$      | 26 kg                 |
| Density of media            | $\rho_1$ | 1.2 kg/m <sup>3</sup> |
| Tolerance class (DIN 24166) |          | 2                     |

## Performance Curves



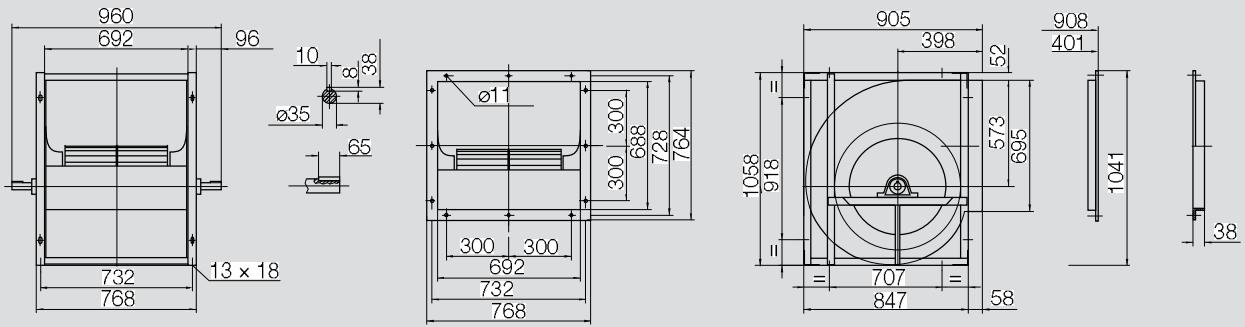
| Duty point  | Speed 1/min | dB |
|-------------|-------------|----|
| SX          | 1100        | 3  |
| SX          | 700         | 3  |
| SX          | 400         | 2  |
| $Q_{V,opt}$ | 1100        | 3  |
| $Q_{V,opt}$ | 700         | 3  |
| $Q_{V,opt}$ | 400         | 2  |
| DX          | 1100        | 3  |
| DX          | 700         | 3  |
| DX          | 400         | 2  |

| Relative sound power level for inlet side $L_{WrelI}$ at octave centre frequencies $f_c$ |     |     |     |      |      |      |      |    |  |
|--|-----|-----|-----|------|------|------|------|----|--|
| 63   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |  |
| 3  | 3   | 5   | -4  | -9   | -13  | -14  | -17  | dB |  |
| 6  | 9   | 1   | -4  | -9   | -10  | -13  | -18  | dB |  |
| 13   | 6   | 1   | -5  | -6   | -9   | -13  | -22  | dB |  |
| 1  | 2   | 5   | -4  | -8   | -13  | -14  | -17  | dB |  |
| 4  | 9   | 1   | -3  | -8   | -10  | -13  | -18  | dB |  |
| 13   | 6   | 1   | -4  | -6   | -8   | -13  | -21  | dB |  |
| -1   | 0   | 3   | -7  | -6   | -8   | -10  | -13  | dB |  |
| 1  | 5   | -4  | -4  | -6   | -7   | -10  | -14  | dB |  |
| 8  | -1  | -2  | -4  | -5   | -8   | -11  | -17  | dB |  |

| Relative sound power level for discharge side $L_{WrelE}$ at octave centre frequencies $f_c$ |     |     |     |      |      |      |      |    |  |
|--|-----|-----|-----|------|------|------|------|----|--|
| 63   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |  |
| 7  | 9   | 9   | -1  | -8   | -11  | -12  | -16  | dB |  |
| 12   | 14  | 4   | -2  | -7   | -8   | -11  | -17  | dB |  |
| 18   | 9   | 3   | -3  | -5   | -7   | -12  | -22  | dB |  |
| 5  | 7   | 9   | -1  | -7   | -11  | -12  | -16  | dB |  |
| 10   | 13  | 4   | -1  | -7   | -9   | -11  | -17  | dB |  |
| 17   | 9   | 3   | -3  | -5   | -7   | -12  | -22  | dB |  |
| 3  | 5   | 7   | -2  | -3   | -6   | -8   | -12  | dB |  |
| 6  | 10  | 0   | -1  | -4   | -5   | -9   | -14  | dB |  |
| 12   | 3   | 1   | -2  | -3   | -6   | -10  | -18  | dB |  |

# AT 22/22

Dimensions in mm, subject to change.  
 AT TIC-22/22 82.5 kg





# AT 25/20

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

## Technical Data

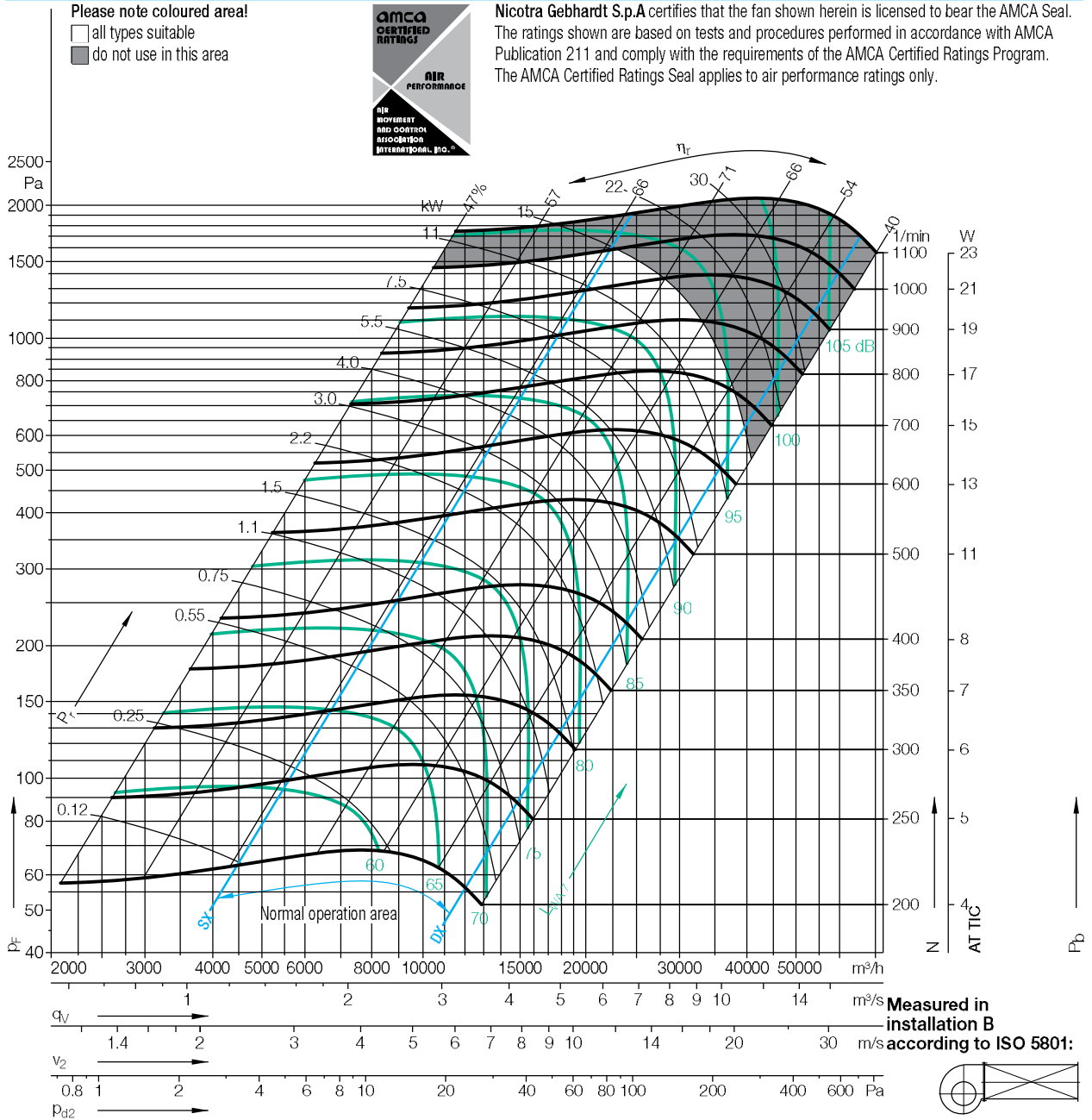
### Impeller Data

|                   |       |                        |
|-------------------|-------|------------------------|
| Impeller diameter | $D_f$ | 636 mm                 |
| Number of blades  | $z$   | 56                     |
| Moment of Inertia | $J$   | 2.475 kgm <sup>2</sup> |

### Impeller Data

|                             |          |                       |
|-----------------------------|----------|-----------------------|
| Impeller weight             | $m$      | 29 kg                 |
| Density of media            | $\rho_1$ | 1.2 kg/m <sup>3</sup> |
| Tolerance class (DIN 24166) |          | 2                     |

## Performance Curves



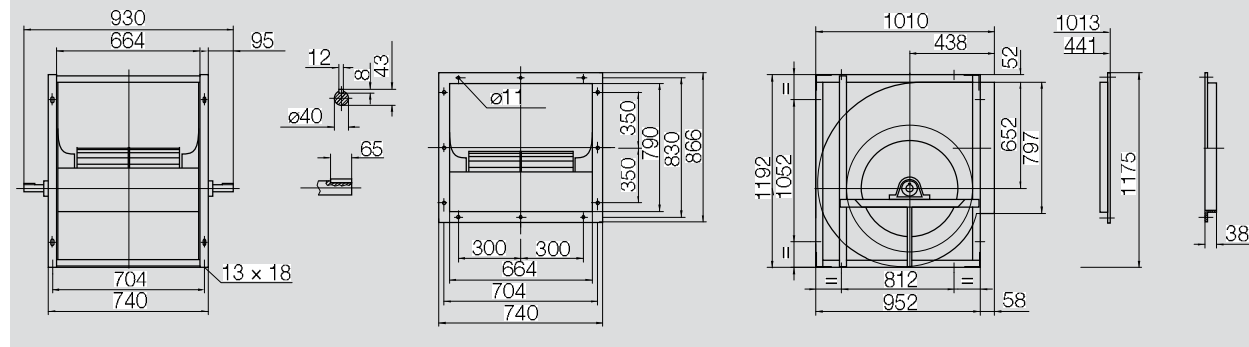
| Duty point  | Speed 1/min | dB |
|-------------|-------------|----|
| SX          | 900         | 4  |
| SX          | 600         | 3  |
| SX          | 300         | 2  |
| $q_{V,opt}$ | 900         | 2  |
| $q_{V,opt}$ | 600         | 2  |
| $q_{V,opt}$ | 300         | 1  |
| DX          | 900         | 3  |
| DX          | 600         | 2  |
| DX          | 300         | 2  |

| Relative sound power level for inlet side $L_{Wrel7}$ at octave centre frequencies $f_c$ |     |     |     |      |      |      |      |    |  |
|--|-----|-----|-----|------|------|------|------|----|--|
| 63   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |  |
| 5  | 8   | 2   | -4  | -7   | -11  | -14  | -15  | dB |  |
| 7  | 9   | 1   | -4  | -7   | -10  | -12  | -17  | dB |  |
| 13   | 4   | 0   | -3  | -6   | -8   | -13  | -21  | dB |  |
| 2  | 5   | 1   | -5  | -5   | -10  | -13  | -16  | dB |  |
| 4  | 7   | -1  | -2  | -7   | -9   | -12  | -17  | dB |  |
| 10   | 3   | 1   | -3  | -6   | -9   | -14  | -21  | dB |  |
| -2   | 0   | -2  | -6  | -4   | -8   | -10  | -14  | dB |  |
| -1   | 1   | -4  | -3  | -5   | -8   | -11  | -15  | dB |  |
| 4  | -1  | 0   | -3  | -5   | -8   | -12  | -18  | dB |  |

| Relative sound power level for discharge side $L_{Wrel4}$ at octave centre frequencies $f_c$ |     |     |     |      |      |      |      |    |  |
|--|-----|-----|-----|------|------|------|------|----|--|
| 63   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |  |
| 10   | 14  | 6   | -1  | -5   | -9   | -11  | -13  | dB |  |
| 14   | 13  | 4   | -2  | -5   | -8   | -10  | -15  | dB |  |
| 17   | 8   | 2   | -1  | -4   | -6   | -11  | -22  | dB |  |
| 6  | 10  | 4   | -3  | -4   | -9   | -11  | -15  | dB |  |
| 9  | 11  | 2   | -2  | -6   | -8   | -11  | -17  | dB |  |
| 14   | 5   | 2   | -2  | -5   | -7   | -13  | -23  | dB |  |
| 2  | 5   | 2   | -2  | -2   | -6   | -9   | -13  | dB |  |
| 5  | 5   | 0   | 0   | -4   | -6   | -10  | -15  | dB |  |
| 8  | 3   | 2   | -1  | -4   | -7   | -12  | -20  | dB |  |

# AT 25/20

Dimensions in mm, subject to change.  
 AT TIC-25/20 93 kg



# AT 25/25

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

## Technical Data

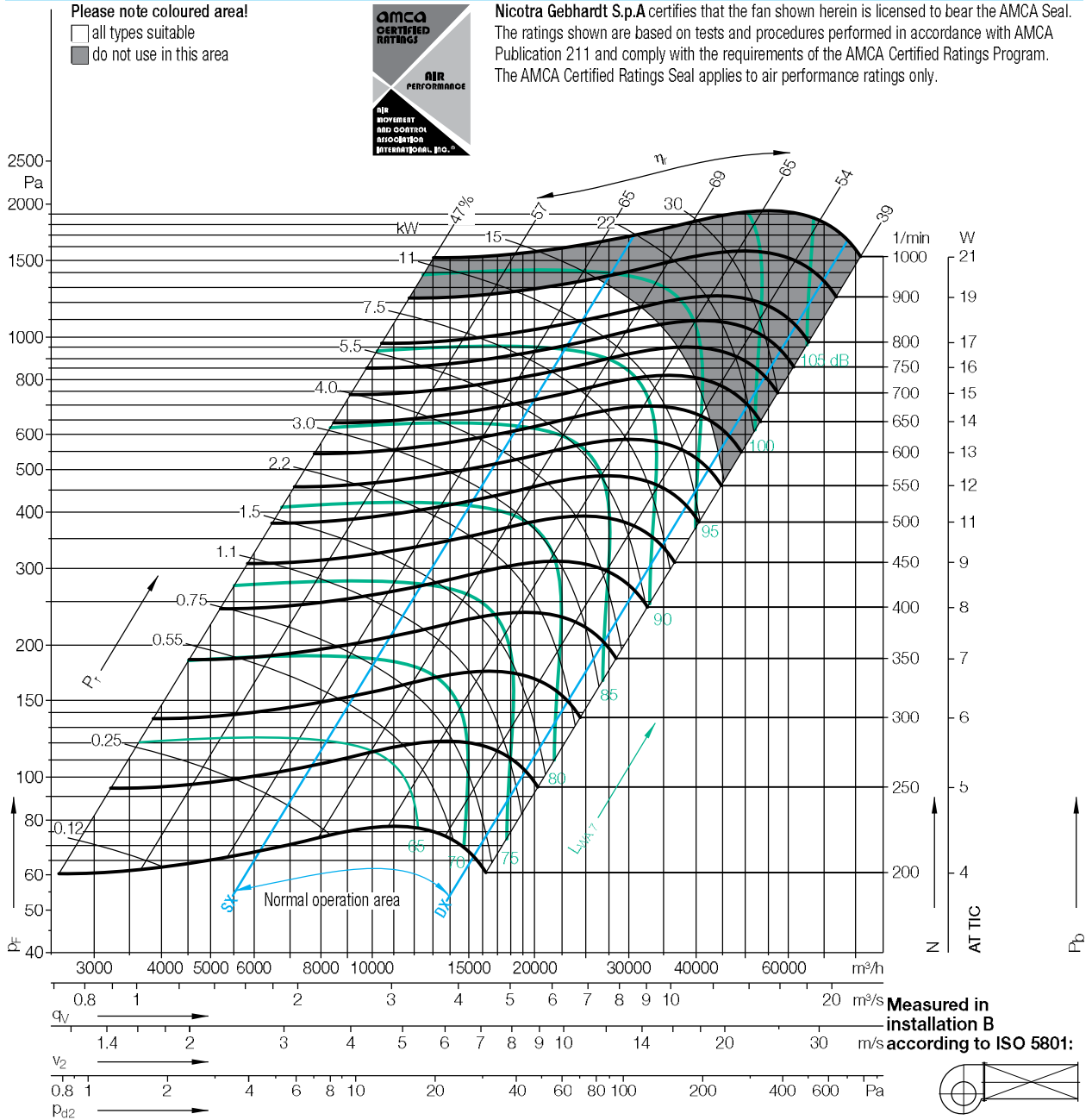
### Impeller Data

|                   |       |                        |
|-------------------|-------|------------------------|
| Impeller diameter | $D_f$ | 636 mm                 |
| Number of blades  | $z$   | 56                     |
| Moment of Inertia | $J$   | 2.753 kgm <sup>2</sup> |

### Impeller Data

|                             |          |                       |
|-----------------------------|----------|-----------------------|
| Impeller weight             | $m$      | 33 kg                 |
| Density of media            | $\rho_1$ | 1.2 kg/m <sup>3</sup> |
| Tolerance class (DIN 24166) |          | 2                     |

## Performance Curves



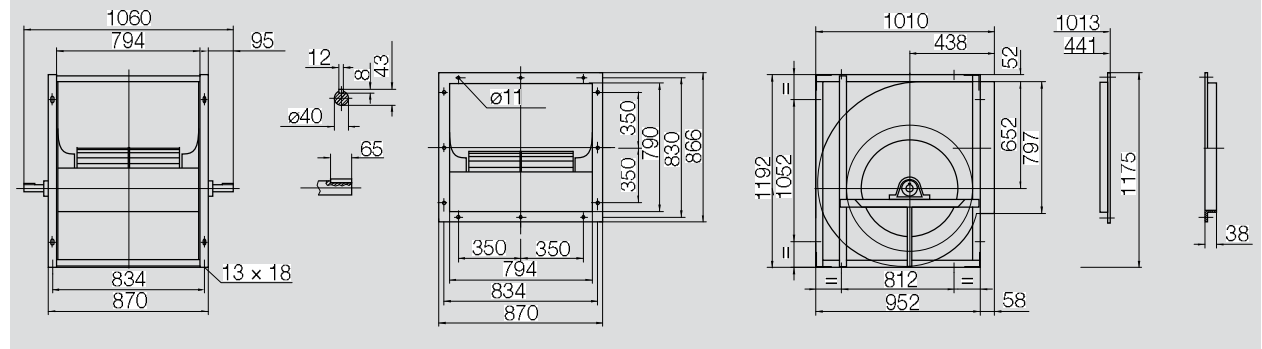
| Duty point  | Speed 1/min | dB |
|-------------|-------------|----|
| SX          | 800         | 3  |
| SX          | 500         | 2  |
| SX          | 300         | 2  |
| $Q_{V,opt}$ | 800         | 3  |
| $Q_{V,opt}$ | 500         | 2  |
| $Q_{V,opt}$ | 300         | 2  |
| DX          | 800         | 2  |
| DX          | 500         | 2  |
| DX          | 300         | 2  |

| Relative sound power level for inlet side $L_{Wrel7}$ at octave centre frequencies $f_c$ |     |     |     |      |      |      |      |    |  |
|--|-----|-----|-----|------|------|------|------|----|--|
| 63   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |  |
| 5  | 7   | 3   | -5  | -7   | -10  | -11  | -17  | dB |  |
| 8  | 8   | -2  | -3  | -7   | -7   | -13  | -19  | dB |  |
| 12   | 3   | 0   | -4  | -5   | -9   | -15  | -21  | dB |  |
| 4  | 6   | 2   | -5  | -7   | -10  | -11  | -17  | dB |  |
| 7  | 7   | -2  | -3  | -7   | -7   | -13  | -19  | dB |  |
| 12   | 3   | 0   | -4  | -5   | -8   | -15  | -21  | dB |  |
| 3  | 3   | -1  | -5  | -6   | -7   | -9   | -13  | dB |  |
| 4  | 2   | -5  | -4  | -6   | -7   | -10  | -15  | dB |  |
| 5  | 1   | -2  | -4  | -5   | -8   | -11  | -18  | dB |  |

| Relative sound power level for discharge side $L_{Wrel4}$ at octave centre frequencies $f_c$ |     |     |     |      |      |      |      |    |  |
|--|-----|-----|-----|------|------|------|------|----|--|
| 63   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |  |
| 9  | 12  | 6   | -3  | -7   | -8   | -10  | -16  | dB |  |
| 14   | 12  | 1   | -3  | -6   | -6   | -11  | -19  | dB |  |
| 17   | 6   | 1   | -3  | -3   | -7   | -14  | -23  | dB |  |
| 8  | 11  | 6   | -2  | -5   | -8   | -10  | -16  | dB |  |
| 12   | 11  | 2   | -2  | -6   | -6   | -11  | -19  | dB |  |
| 16   | 7   | 2   | -2  | -3   | -7   | -14  | -23  | dB |  |
| 6  | 8   | 3   | -2  | -4   | -6   | -8   | -13  | dB |  |
| 9  | 6   | -1  | -1  | -4   | -5   | -10  | -15  | dB |  |
| 10   | 4   | 1   | -2  | -3   | -7   | -12  | -21  | dB |  |

# AT 25/25

Dimensions in mm, subject to change.  
 AT TIC-25/25 105 kg



# AT 28/20

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

## Technical Data

### Impeller Data

|                   |       |                        |
|-------------------|-------|------------------------|
| Impeller diameter | $D_f$ | 710 mm                 |
| Number of blades  | $z$   | 56                     |
| Moment of Inertia | $J$   | 3.204 kgm <sup>2</sup> |

### Impeller Data

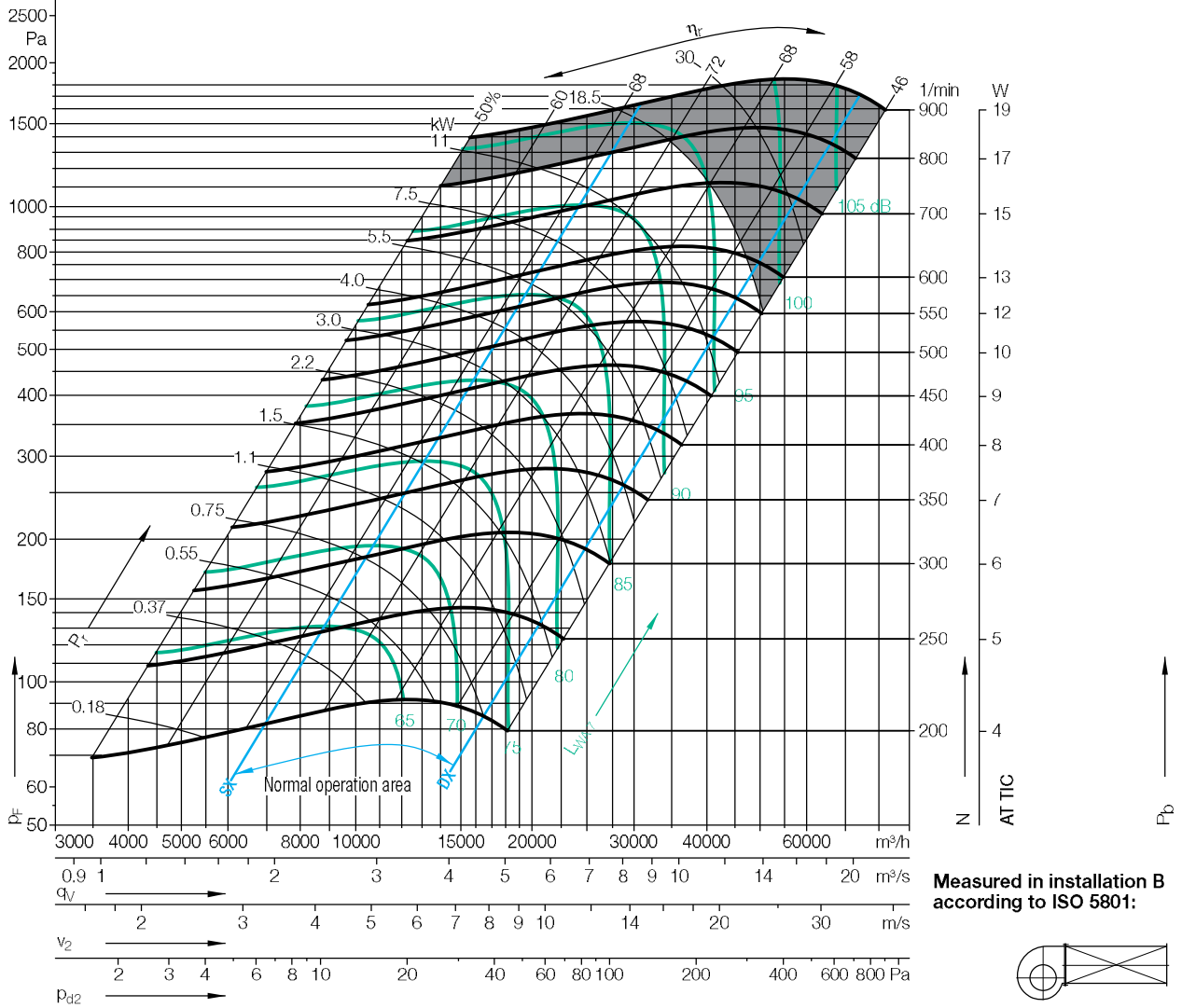
|                             |          |                       |
|-----------------------------|----------|-----------------------|
| Impeller weight             | $m$      | 31 kg                 |
| Density of media            | $\rho_1$ | 1.2 kg/m <sup>3</sup> |
| Tolerance class (DIN 24166) |          | 2                     |

## Performance Curves

Please note coloured area:  
 □ all types suitable  
 ■ do not use in this area



Nicotra Gebhardt S.p.A certifies that the fan 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. The AMCA Certified Ratings Seal applies to air performance ratings only.



Measured in installation B according to ISO 5801:

$\Delta L_{Wrel4}(A)$

Relative sound power level for inlet side  $L_{Wrel17}$  at octave centre frequencies  $f_c$

Relative sound power level for discharge side  $L_{Wrel4}$  at octave centre frequencies  $f_c$

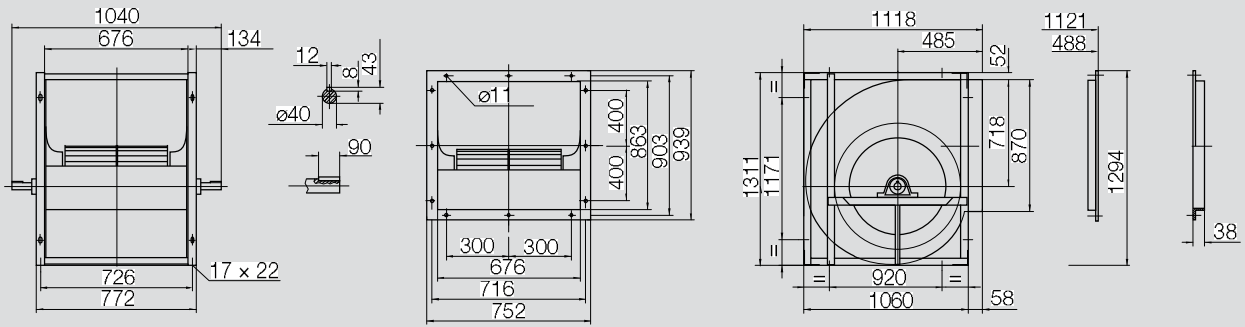
| Duty point  | Speed 1/min | dB |
|-------------|-------------|----|
| SX          | 700         | 3  |
| SX          | 450         | 3  |
| SX          | 250         | 2  |
| $Q_{V,opt}$ | 700         | 2  |
| $Q_{V,opt}$ | 450         | 2  |
| $Q_{V,opt}$ | 250         | 2  |
| DX          | 700         | 2  |
| DX          | 450         | 1  |
| DX          | 250         | 1  |

|  | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|--|----|-----|-----|-----|------|------|------|------|----|
|  | 5  | 7   | 0   | -1  | -8   | -11  | -12  | -17  | dB |
|  | 8  | 4   | 2   | -2  | -8   | -9   | -12  | -19  | dB |
|  | 8  | 5   | 2   | -5  | -5   | -9   | -15  | -22  | dB |
|  | 1  | 5   | -1  | -2  | -7   | -10  | -11  | -15  | dB |
|  | 5  | 3   | 1   | -2  | -8   | -8   | -12  | -18  | dB |
|  | 8  | 3   | 2   | -5  | -5   | -8   | -14  | -21  | dB |
|  | 3  | 1   | -5  | -4  | -7   | -6   | -9   | -12  | dB |
|  | 3  | -3  | -4  | -4  | -6   | -7   | -11  | -13  | dB |
|  | 0  | -2  | -2  | -4  | -4   | -8   | -11  | -16  | dB |

|  | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|--|----|-----|-----|-----|------|------|------|------|----|
|  | 11 | 12  | 4   | 1   | -6   | -8   | -10  | -15  | dB |
|  | 15 | 8   | 5   | 0   | -6   | -7   | -10  | -18  | dB |
|  | 13 | 8   | 4   | -3  | -3   | -6   | -14  | -24  | dB |
|  | 6  | 10  | 2   | 0   | -6   | -8   | -9   | -14  | dB |
|  | 10 | 7   | 3   | -1  | -6   | -7   | -10  | -18  | dB |
|  | 12 | 7   | 3   | -3  | -4   | -6   | -14  | -24  | dB |
|  | 6  | 6   | -1  | -1  | -5   | -5   | -8   | -12  | dB |
|  | 8  | 1   | -1  | -2  | -4   | -6   | -10  | -14  | dB |
|  | 4  | 1   | 0   | -3  | -3   | -8   | -12  | -19  | dB |

# AT 28/20

Dimensions in mm, subject to change.  
 AT TIC-28/20 120 kg



# AT 28/28

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

## Technical Data

### Impeller Data

|                   |       |                        |
|-------------------|-------|------------------------|
| Impeller diameter | $D_f$ | 710 mm                 |
| Number of blades  | $z$   | 56                     |
| Moment of Inertia | $J$   | 3.867 kgm <sup>2</sup> |

### Impeller Data

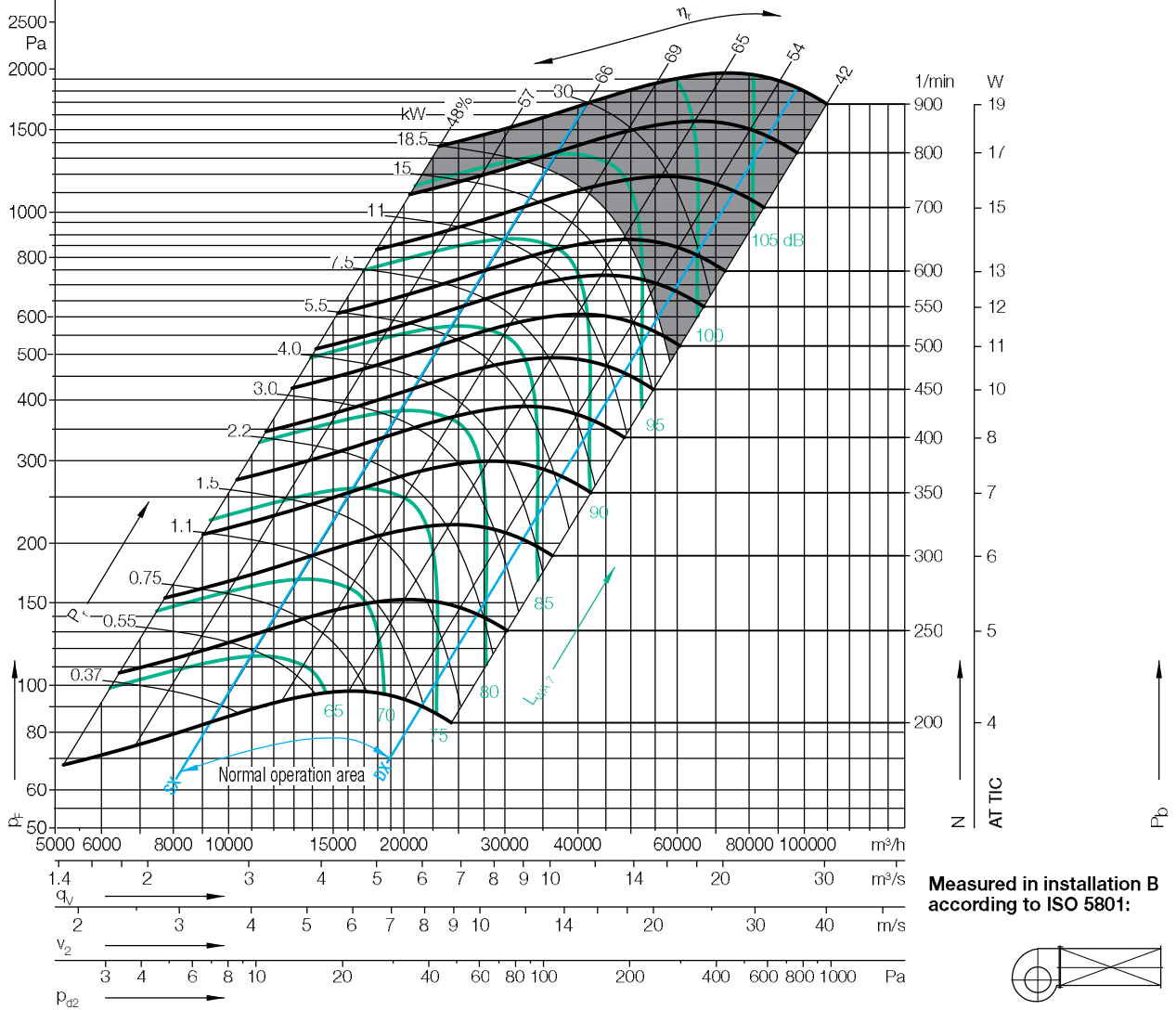
|                             |          |                       |
|-----------------------------|----------|-----------------------|
| Impeller weight             | $m$      | 35 kg                 |
| Density of media            | $\rho_1$ | 1.2 kg/m <sup>3</sup> |
| Tolerance class (DIN 24166) |          | 2                     |

## Performance Curves

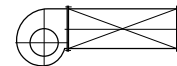
Please note coloured area:  
 □ all types suitable  
 ■ do not use in this area



Nicotra Gebhardt S.p.A certifies that the fan 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. The AMCA Certified Ratings Seal applies to air performance ratings only.



Measured in installation B according to ISO 5801:



$\Delta L_{Wrel d}(A)$

Relative sound power level for inlet side  $L_{Wrel i7}$  at octave centre frequencies  $f_c$

Relative sound power level for discharge side  $L_{Wrel d4}$  at octave centre frequencies  $f_c$

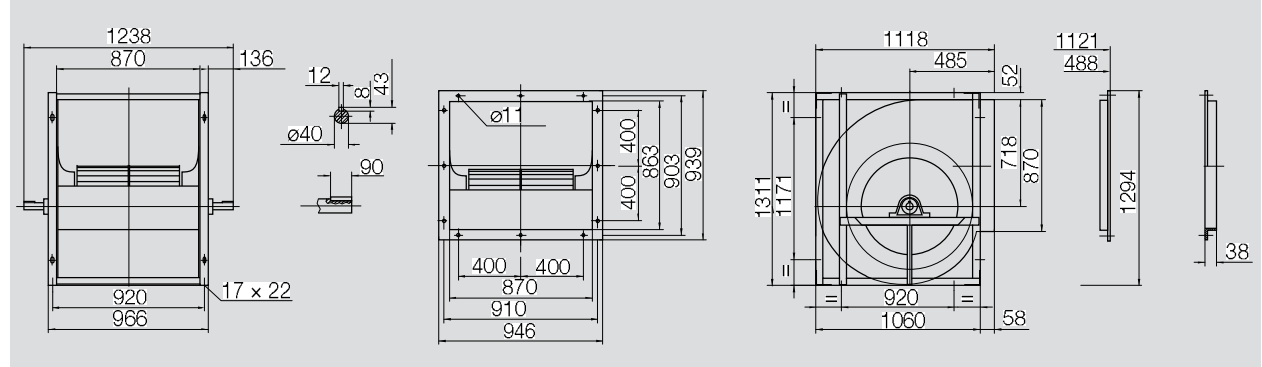
| Duty point  | Speed 1/min | dB |
|-------------|-------------|----|
| SX          | 600         | 3  |
| SX          | 400         | 2  |
| SX          | 250         | 2  |
| $Q_{V opt}$ | 600         | 2  |
| $Q_{V opt}$ | 400         | 2  |
| $Q_{V opt}$ | 250         | 1  |
| DX          | 600         | 2  |
| DX          | 400         | 2  |
| DX          | 250         | 1  |

| 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|----|-----|-----|-----|------|------|------|------|----|
| 9  | 10  | -1  | -3  | -9   | -11  | -13  | -19  | dB |
| 14 | 2   | 1   | -3  | -7   | -9   | -14  | -18  | dB |
| 12 | 3   | 2   | -4  | -6   | -9   | -15  | -19  | dB |
| 7  | 8   | -1  | -2  | -8   | -9   | -12  | -16  | dB |
| 11 | 0   | 1   | -3  | -6   | -8   | -12  | -18  | dB |
| 8  | 3   | 1   | -4  | -5   | -9   | -14  | -19  | dB |
| 7  | 5   | -2  | -5  | -7   | -7   | -10  | -13  | dB |
| 8  | -1  | -1  | -5  | -5   | -7   | -10  | -14  | dB |
| 4  | 1   | -3  | -4  | -5   | -8   | -11  | -17  | dB |

| 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|----|-----|-----|-----|------|------|------|------|----|
| 13 | 14  | 2   | -1  | -7   | -9   | -12  | -18  | dB |
| 18 | 5   | 3   | -1  | -5   | -8   | -13  | -19  | dB |
| 16 | 6   | 3   | -2  | -4   | -8   | -15  | -22  | dB |
| 11 | 11  | 2   | -1  | -6   | -8   | -11  | -16  | dB |
| 15 | 3   | 3   | -1  | -5   | -7   | -12  | -19  | dB |
| 12 | 6   | 3   | -2  | -4   | -8   | -14  | -22  | dB |
| 11 | 9   | 2   | -2  | -5   | -6   | -9   | -13  | dB |
| 12 | 2   | 2   | -3  | -4   | -6   | -10  | -16  | dB |
| 7  | 4   | 0   | -2  | -3   | -7   | -12  | -20  | dB |

# AT 28/28

Dimensions in mm, subject to change.  
 AT TIC-28/28 127 kg





# AT 30/20

Performance certified is for installation type B - free inlet, ducted outlet.

Power rating (kW) does not include transmission losses.

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

## Technical Data

### Impeller Data

|                   |       |                        |
|-------------------|-------|------------------------|
| Impeller diameter | $D_f$ | 762 mm                 |
| Number of blades  | $z$   | 64                     |
| Moment of Inertia | $J$   | 4.378 kgm <sup>2</sup> |

### Impeller Data

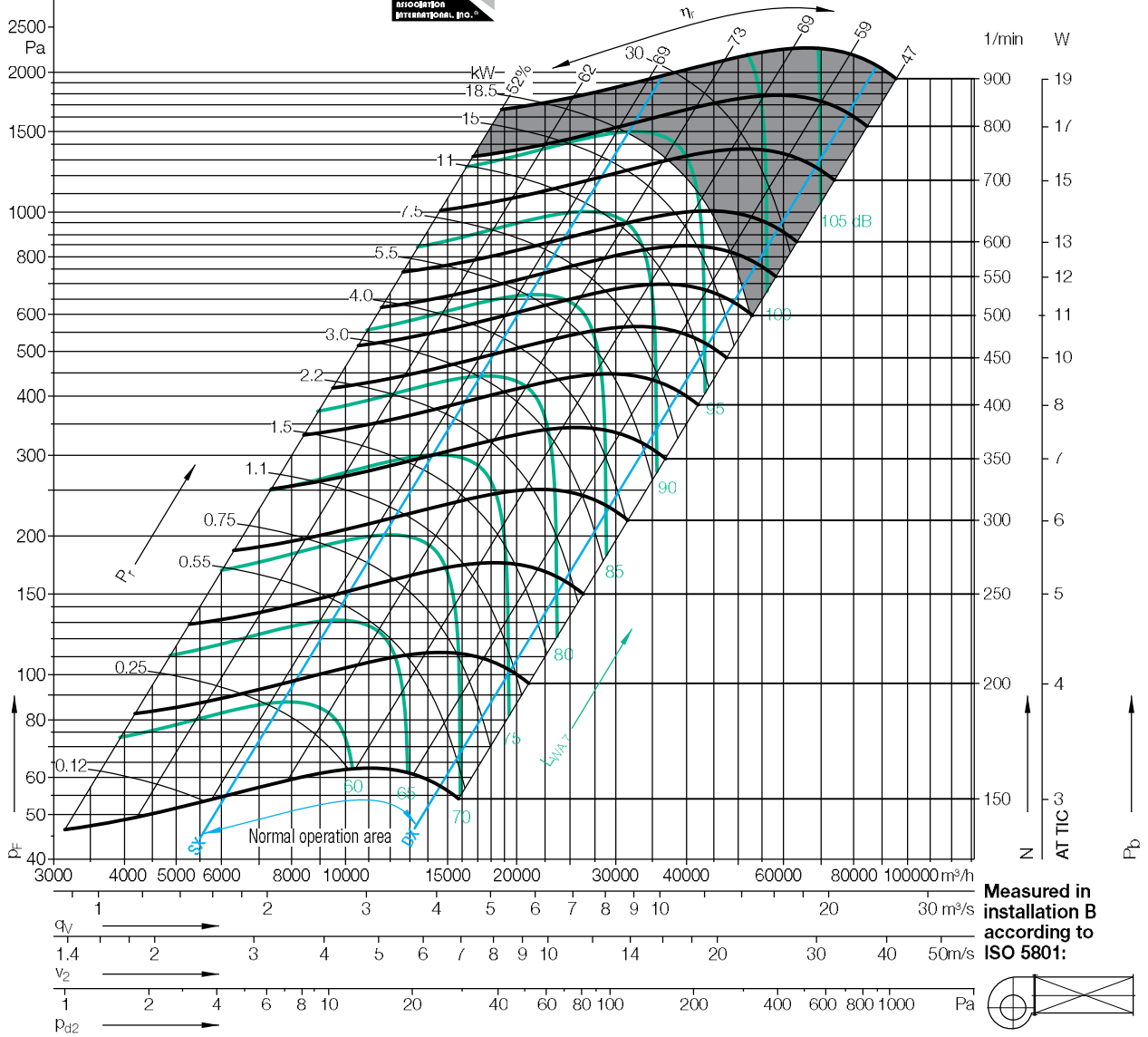
|                             |          |                       |
|-----------------------------|----------|-----------------------|
| Impeller weight             | $m$      | 34 kg                 |
| Density of media            | $\rho_1$ | 1.2 kg/m <sup>3</sup> |
| Tolerance class (DIN 24166) |          | 2                     |

## Performance Curves

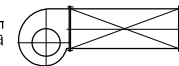
Please note coloured area:  
 □ all types suitable  
 ■ do not use in this area



Nicotra Gebhardt S.p.A certifies that the fan 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. The AMCA Certified Ratings Seal applies to air performance ratings only.



Measured in installation B according to ISO 5801:



$\Delta L_{Wrel d(A)}$

Relative sound power level for inlet side  $L_{Wrel i7}$  at octave centre frequencies  $f_c$

Relative sound power level for discharge side  $L_{Wrel d4}$  at octave centre frequencies  $f_c$

| Duty point  | Speed 1/min | dB |
|-------------|-------------|----|
| SX          | 600         | 3  |
| SX          | 400         | 3  |
| SX          | 250         | 2  |
| $Q_{V,opt}$ | 600         | 2  |
| $Q_{V,opt}$ | 400         | 2  |
| $Q_{V,opt}$ | 250         | 2  |
| DX          | 600         | 2  |
| DX          | 400         | 2  |
| DX          | 250         | 1  |

|    | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|----|----|-----|-----|-----|------|------|------|------|----|
| 6  | 7  | 2   | -2  | -10 | -11  | -12  | -18  |      | dB |
| 9  | 6  | 3   | -3  | -9  | -9   | -13  | -20  |      | dB |
| 11 | 7  | 2   | -6  | -6  | -8   | -15  | -21  |      | dB |
| 7  | 6  | 1   | -2  | -8  | -10  | -12  | -16  |      | dB |
| 8  | 4  | 2   | -3  | -8  | -9   | -12  | -18  |      | dB |
| 9  | 5  | 2   | -5  | -6  | -8   | -13  | -20  |      | dB |
| 8  | 3  | -3  | -4  | -7  | -7   | -10  | -12  |      | dB |
| 8  | -2 | -3  | -4  | -6  | -7   | -10  | -13  |      | dB |
| 2  | -1 | -2  | -5  | -5  | -8   | -10  | -15  |      | dB |

|    | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |
|----|----|-----|-----|-----|------|------|------|------|----|
| 12 | 13 | 6   | 0   | -8  | -9   | -10  | -16  |      | dB |
| 15 | 10 | 5   | -1  | -6  | -7   | -11  | -20  |      | dB |
| 16 | 10 | 4   | -4  | -4  | -6   | -14  | -23  |      | dB |
| 12 | 11 | 5   | -1  | -7  | -9   | -10  | -16  |      | dB |
| 14 | 9  | 4   | -2  | -7  | -7   | -11  | -19  |      | dB |
| 13 | 8  | 3   | -4  | -4  | -6   | -13  | -23  |      | dB |
| 13 | 8  | 2   | -2  | -5  | -5   | -9   | -12  |      | dB |
| 13 | 3  | 0   | -2  | -4  | -6   | -10  | -14  |      | dB |
| 7  | 3  | 1   | -3  | -3  | -7   | -11  | -18  |      | dB |



# AT 30/28

Performance certified is for installation type B - free inlet, ducted outlet.

Power rating (kW) does not include transmission losses.

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

## Technical Data

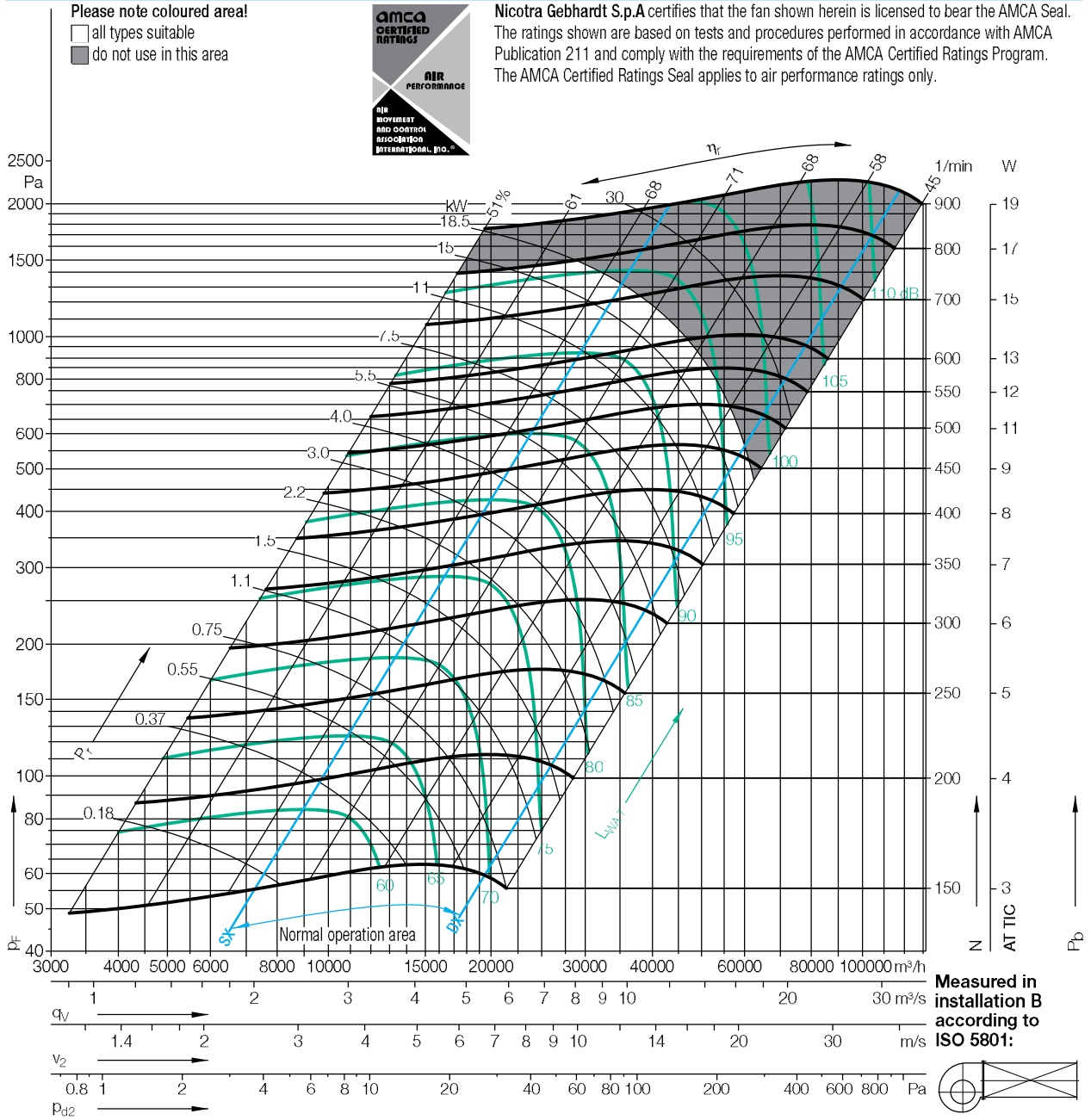
### Impeller Data

|                   |       |                       |
|-------------------|-------|-----------------------|
| Impeller diameter | $D_f$ | 762 mm                |
| Number of blades  | $z$   | 64                    |
| Moment of Inertia | $J$   | 5.07 kgm <sup>2</sup> |

### Impeller Data

|                             |          |                       |
|-----------------------------|----------|-----------------------|
| Impeller weight             | $m$      | 40 kg                 |
| Density of media            | $\rho_1$ | 1.2 kg/m <sup>3</sup> |
| Tolerance class (DIN 24166) |          | 2                     |

## Performance Curves



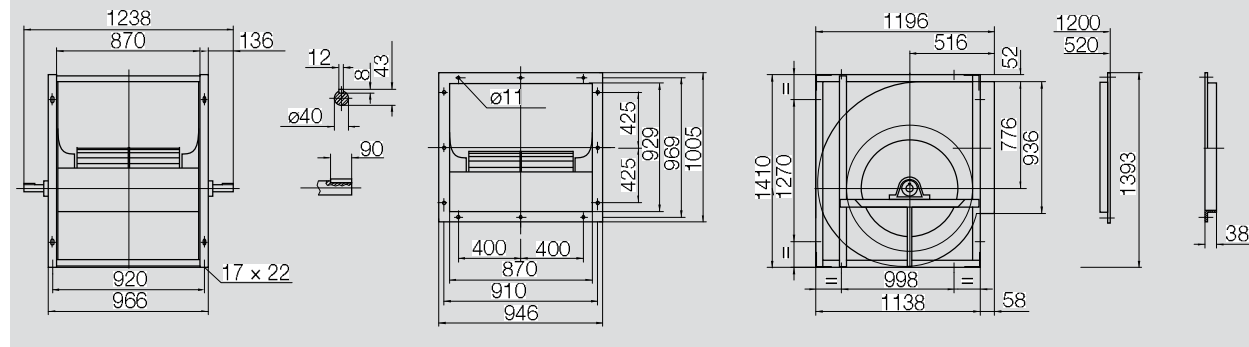
| Duty point  | Speed 1/min | dB |
|-------------|-------------|----|
| SX          | 600         | 3  |
| SX          | 400         | 2  |
| SX          | 250         | 2  |
| $Q_{V,opt}$ | 600         | 3  |
| $Q_{V,opt}$ | 400         | 2  |
| $Q_{V,opt}$ | 250         | 2  |
| DX          | 600         | 3  |
| DX          | 400         | 2  |
| DX          | 250         | 2  |

| Relative sound power level for inlet side $L_{Wrel7}$ at octave centre frequencies $f_c$ |     |     |     |      |      |      |      |    |  |
|--|-----|-----|-----|------|------|------|------|----|--|
| 63   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |  |
| 9  | 11  | -2  | -5  | -7   | -11  | -13  | -19  | dB |  |
| 14   | 5   | -2  | -3  | -6   | -9   | -13  | -19  | dB |  |
| 14   | 2   | 0   | -2  | -6   | -9   | -15  | -21  | dB |  |
| 8  | 10  | -2  | -4  | -7   | -10  | -12  | -17  | dB |  |
| 12   | 4   | -1  | -3  | -6   | -9   | -12  | -18  | dB |  |
| 13   | 2   | 0   | -3  | -6   | -9   | -14  | -20  | dB |  |
| 9  | 8   | -2  | -5  | -7   | -8   | -11  | -13  | dB |  |
| 11   | 2   | -2  | -4  | -6   | -8   | -10  | -14  | dB |  |
| 8  | 1   | -2  | -3  | -5   | -8   | -10  | -17  | dB |  |

| Relative sound power level for discharge side $L_{Wrel4}$ at octave centre frequencies $f_c$ |     |     |     |      |      |      |      |    |  |
|--|-----|-----|-----|------|------|------|------|----|--|
| 63   | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz |  |
| 14   | 15  | 1   | -4  | -5   | -9   | -12  | -18  | dB |  |
| 18   | 9   | 0   | -1  | -5   | -8   | -12  | -20  | dB |  |
| 18   | 5   | 1   | 0   | -5   | -8   | -15  | -24  | dB |  |
| 12   | 14  | 1   | -2  | -5   | -9   | -11  | -16  | dB |  |
| 16   | 8   | 1   | -1  | -5   | -7   | -11  | -19  | dB |  |
| 17   | 5   | 2   | -1  | -5   | -7   | -14  | -23  | dB |  |
| 13   | 12  | 2   | -2  | -5   | -7   | -9   | -13  | dB |  |
| 15   | 5   | 2   | -2  | -4   | -6   | -10  | -15  | dB |  |
| 12   | 4   | 1   | -1  | -4   | -7   | -11  | -20  | dB |  |

# AT 30/28

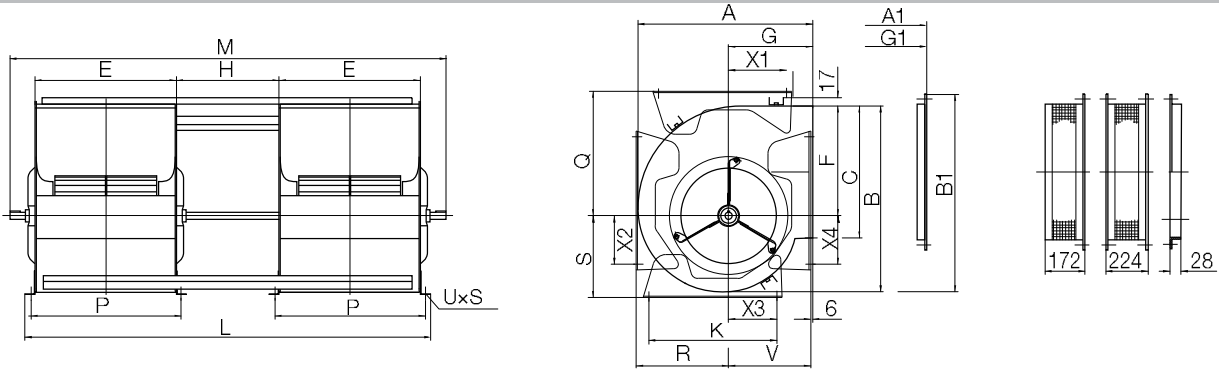
Dimensions in mm, subject to change.  
 AT TIC-30/28 138 kg



# AT G2L

Dimensions in mm, subject to change.

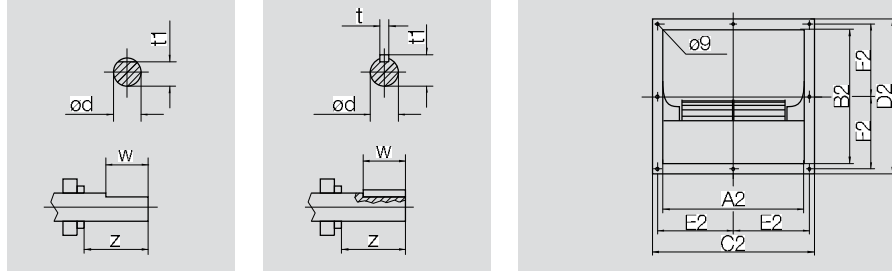
## AT G2L 07/07-18/18



AT G2L 07/07-10/10

AT G2L 12/09-18/18

AT G2L 07/07-18/18



## AT G2L 07/07-18/18

|       | A   | B   | C   | E   | F   | G   | H   | L    | M    | P   | Q   | R   |
|-------|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|
| 7/7   | 316 | 325 | 208 | 232 | 186 | 153 | 184 | 698  | 808  | 258 | 203 | 169 |
| 9/7   | 380 | 387 | 262 | 232 | 215 | 185 | 184 | 698  | 808  | 258 | 253 | 199 |
| 9/9   | 380 | 387 | 262 | 298 | 215 | 185 | 244 | 890  | 1000 | 324 | 253 | 199 |
| 10/8  | 425 | 443 | 289 | 265 | 249 | 203 | 214 | 794  | 904  | 291 | 287 | 227 |
| 10/10 | 425 | 443 | 289 | 331 | 249 | 203 | 264 | 976  | 1086 | 357 | 287 | 227 |
| 12/09 | 491 | 521 | 341 | 309 | 294 | 230 | 244 | 912  | 1082 | 335 | 332 | 266 |
| 12/12 | 491 | 521 | 341 | 395 | 294 | 230 | 324 | 1164 | 1334 | 425 | 332 | 266 |
| 15/11 | 569 | 609 | 404 | 373 | 342 | 264 | 294 | 1190 | 1260 | 399 | 380 | 309 |
| 15/15 | 569 | 609 | 404 | 471 | 342 | 264 | 384 | 1376 | 1546 | 497 | 380 | 309 |
| 18/13 | 684 | 739 | 478 | 430 | 415 | 314 | 343 | 1253 | 1423 | 456 | 457 | 376 |
| 18/18 | 684 | 739 | 478 | 557 | 415 | 314 | 458 | 1622 | 1792 | 583 | 457 | 376 |

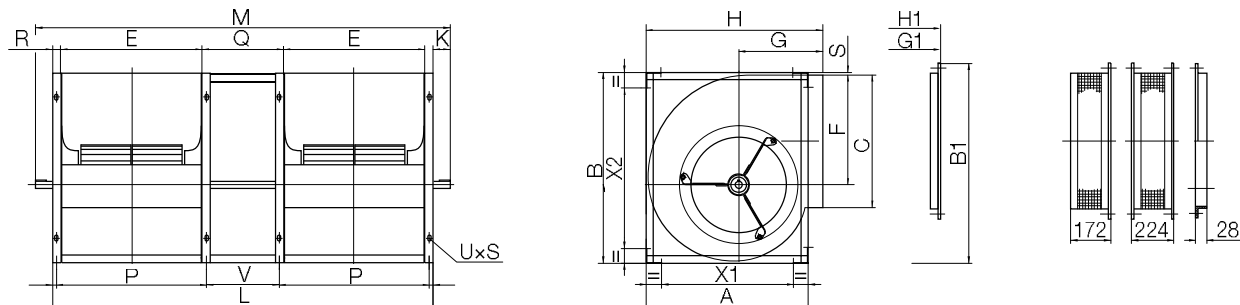
|       | S   | V   | K   | X1  | X2  | X3  | X4  | UxS   | t | t1 | w  | z   | d  |
|-------|-----|-----|-----|-----|-----|-----|-----|-------|---|----|----|-----|----|
| 7/7   | 145 | 147 | 225 | 117 | 86  | 88  | 47  | 11x16 | - | 19 | 60 | 65  | 20 |
| 9/7   | 177 | 179 | 300 | 119 | 124 | 123 | 120 | 11x16 | - | 19 | 60 | 65  | 20 |
| 9/9   | 177 | 179 | 300 | 119 | 124 | 123 | 120 | 11x16 | - | 19 | 60 | 65  | 20 |
| 10/8  | 198 | 197 | 340 | 136 | 132 | 135 | 132 | 11x16 | - | 19 | 60 | 73  | 20 |
| 10/10 | 198 | 197 | 340 | 136 | 132 | 135 | 132 | 11x16 | - | 19 | 60 | 73  | 20 |
| 12/09 | 232 | 224 | 408 | 161 | 153 | 161 | 153 | 11x16 | 8 | 28 | 90 | 105 | 25 |
| 12/12 | 232 | 224 | 408 | 161 | 153 | 161 | 153 | 11x16 | 8 | 28 | 90 | 105 | 25 |
| 15/11 | 272 | 258 | 495 | 197 | 211 | 201 | 200 | 11x16 | 8 | 28 | 90 | 105 | 25 |
| 15/15 | 272 | 258 | 495 | 197 | 211 | 201 | 200 | 11x16 | 8 | 28 | 90 | 105 | 25 |
| 18/13 | 340 | 307 | 608 | 262 | 283 | 278 | 288 | 11x16 | 8 | 28 | 90 | 110 | 25 |
| 18/18 | 340 | 307 | 608 | 262 | 283 | 278 | 288 | 11x16 | 8 | 28 | 90 | 110 | 25 |

|       | A1  | B1  | G1  | A2  | B2  | C2  | D2  | E2    | F2    |
|-------|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| 7/7   | 319 | 350 | 156 | 232 | 201 | 288 | 257 | 131.0 | 115.5 |
| 9/7   | 383 | 412 | 188 | 232 | 255 | 288 | 311 | 131.0 | 142.5 |
| 9/9   | 383 | 412 | 188 | 298 | 255 | 354 | 311 | 164.0 | 142.5 |
| 10/8  | 428 | 469 | 206 | 265 | 284 | 321 | 340 | 147.5 | 157.0 |
| 10/10 | 428 | 469 | 206 | 331 | 284 | 387 | 340 | 180.5 | 157.0 |
| 12/09 | 494 | 546 | 233 | 309 | 334 | 365 | 390 | 169.5 | 182.0 |
| 12/12 | 494 | 546 | 233 | 395 | 334 | 451 | 390 | 212.5 | 182.0 |
| 15/11 | 572 | 634 | 267 | 373 | 397 | 429 | 453 | 201.5 | 213.5 |
| 15/15 | 572 | 634 | 267 | 471 | 397 | 527 | 453 | 250.5 | 213.5 |
| 18/13 | 687 | 764 | 317 | 430 | 471 | 486 | 527 | 230.0 | 250.5 |
| 18/18 | 687 | 764 | 317 | 557 | 471 | 316 | 527 | 293.5 | 250.5 |

# AT SC2

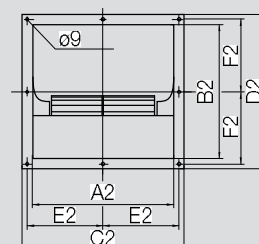
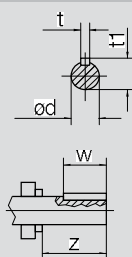
Dimensions in mm, subject to change.

AT SC2 7/7-18/18



AT SC2 7/7-18/18

AT SC2 7/7-18/18



AT SC2 7/7-18/18

|       | A   | B   | C   | E   | F   | G   | H   | L    | M    | P   | Q   | R  |
|-------|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|----|
| 7/7   | 285 | 337 | 208 | 232 | 186 | 153 | 321 | 686  | 843  | 254 | 182 | 20 |
| 9/7   | 349 | 399 | 262 | 232 | 215 | 185 | 385 | 684  | 843  | 254 | 180 | 20 |
| 9/9   | 349 | 399 | 262 | 298 | 215 | 185 | 385 | 872  | 1033 | 320 | 236 | 20 |
| 10/8  | 395 | 455 | 289 | 265 | 249 | 203 | 431 | 773  | 950  | 287 | 203 | 20 |
| 10/10 | 395 | 455 | 289 | 331 | 249 | 203 | 431 | 957  | 1134 | 353 | 255 | 20 |
| 12/9  | 461 | 533 | 341 | 309 | 294 | 230 | 497 | 913  | 1066 | 339 | 239 | 28 |
| 12/12 | 461 | 533 | 341 | 395 | 294 | 230 | 497 | 1165 | 1316 | 425 | 319 | 28 |
| 15/11 | 539 | 621 | 404 | 373 | 342 | 264 | 575 | 1094 | 1243 | 403 | 292 | 28 |
| 15/15 | 539 | 621 | 404 | 471 | 342 | 264 | 575 | 1384 | 1537 | 501 | 386 | 28 |
| 18/13 | 654 | 751 | 477 | 430 | 415 | 314 | 690 | 1262 | 1425 | 470 | 326 | 38 |
| 18/18 | 654 | 751 | 477 | 557 | 415 | 314 | 690 | 1647 | 1805 | 597 | 457 | 38 |

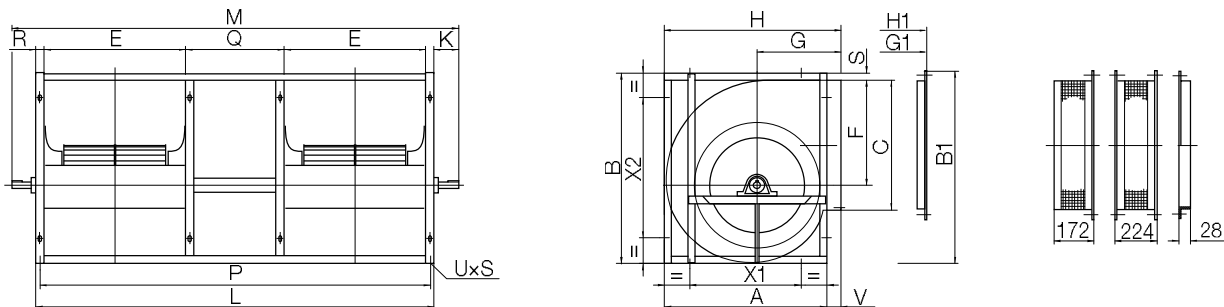
|       | S | V   | K    | X1  | X2  | UxS   | t | t1 | w  | z    | d  |
|-------|---|-----|------|-----|-----|-------|---|----|----|------|----|
| 7/7   | 6 | 160 | 78.5 | 210 | 262 | 9x12  | 6 | 23 | 60 | 75.5 | 20 |
| 9/7   | 6 | 158 | 79.5 | 274 | 324 | 9x12  | 6 | 23 | 60 | 76.5 | 20 |
| 9/9   | 6 | 214 | 80.5 | 274 | 324 | 9x12  | 6 | 23 | 60 | 77.5 | 20 |
| 10/8  | 6 | 181 | 88.5 | 330 | 390 | 9x12  | 6 | 23 | 60 | 85.5 | 20 |
| 10/10 | 6 | 233 | 88.5 | 330 | 390 | 9x12  | 6 | 23 | 60 | 85.5 | 20 |
| 12/9  | 6 | 209 | 76.5 | 371 | 443 | 11x16 | 8 | 28 | 65 | 79.5 | 25 |
| 12/12 | 6 | 289 | 75.5 | 371 | 443 | 11x16 | 8 | 28 | 65 | 78.5 | 25 |
| 15/11 | 6 | 262 | 74.5 | 449 | 531 | 11x16 | 8 | 28 | 65 | 77.5 | 25 |
| 15/15 | 6 | 356 | 76.5 | 449 | 531 | 11x16 | 8 | 28 | 65 | 79.5 | 25 |
| 18/13 | 6 | 286 | 81.5 | 544 | 641 | 11x16 | 8 | 28 | 65 | 84.5 | 25 |
| 18/18 | 6 | 417 | 79.0 | 544 | 641 | 11x16 | 8 | 28 | 65 | 82.0 | 25 |

|       | B1  | G1  | H1  | A2  | B2  | C2  | D2  | E2    | F2    |
|-------|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| 7/7   | 350 | 156 | 324 | 232 | 201 | 288 | 257 | 131.0 | 115.5 |
| 9/7   | 418 | 188 | 388 | 232 | 255 | 288 | 311 | 131.0 | 142.5 |
| 9/9   | 418 | 188 | 388 | 298 | 255 | 354 | 311 | 164.0 | 142.5 |
| 10/8  | 475 | 206 | 434 | 265 | 284 | 321 | 340 | 147.5 | 157.0 |
| 10/10 | 475 | 206 | 434 | 331 | 284 | 387 | 340 | 180.5 | 157.0 |
| 12/9  | 552 | 233 | 500 | 309 | 334 | 365 | 390 | 169.5 | 182.0 |
| 12/12 | 552 | 233 | 500 | 395 | 334 | 451 | 390 | 212.5 | 182.0 |
| 15/11 | 640 | 267 | 578 | 373 | 397 | 429 | 453 | 201.5 | 213.5 |
| 15/15 | 640 | 267 | 578 | 471 | 397 | 527 | 453 | 250.5 | 213.5 |
| 18/13 | 770 | 317 | 693 | 430 | 471 | 486 | 527 | 230.0 | 250.5 |
| 18/18 | 770 | 317 | 693 | 557 | 471 | 613 | 527 | 293.5 | 250.5 |

# AT G2C

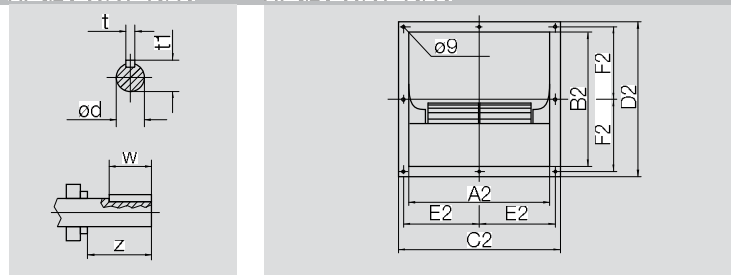
Dimensions in mm, subject to change.

AT G2C 09/07-18/18



AT G2C 09/07-18/18

AT G2C 09/07-18/18



AT G2C 09/07-18/18

|       | A   | B   | C   | E   | F   | G   | H   | L    | M    | P    | Q   | R  |
|-------|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|----|
| 9/7   | 347 | 423 | 262 | 232 | 215 | 185 | 385 | 704  | 864  | 678  | 184 | 28 |
| 9/9   | 347 | 423 | 262 | 298 | 215 | 185 | 385 | 896  | 1056 | 870  | 244 | 28 |
| 10/8  | 393 | 479 | 289 | 265 | 249 | 203 | 431 | 800  | 960  | 774  | 214 | 28 |
| 10/10 | 393 | 479 | 289 | 331 | 249 | 203 | 431 | 982  | 1142 | 956  | 264 | 28 |
| 12/09 | 457 | 580 | 341 | 309 | 294 | 230 | 497 | 938  | 1158 | 902  | 244 | 38 |
| 12/12 | 457 | 580 | 341 | 395 | 294 | 230 | 497 | 1190 | 1410 | 1154 | 324 | 38 |
| 15/11 | 533 | 667 | 404 | 373 | 342 | 264 | 575 | 1116 | 1336 | 1080 | 294 | 38 |
| 15/15 | 533 | 667 | 404 | 471 | 342 | 264 | 575 | 1402 | 1622 | 1366 | 384 | 38 |
| 18/13 | 646 | 797 | 478 | 430 | 415 | 314 | 690 | 1299 | 1519 | 1253 | 343 | 48 |
| 18/18 | 646 | 797 | 478 | 557 | 415 | 314 | 690 | 1668 | 1888 | 1622 | 458 | 48 |

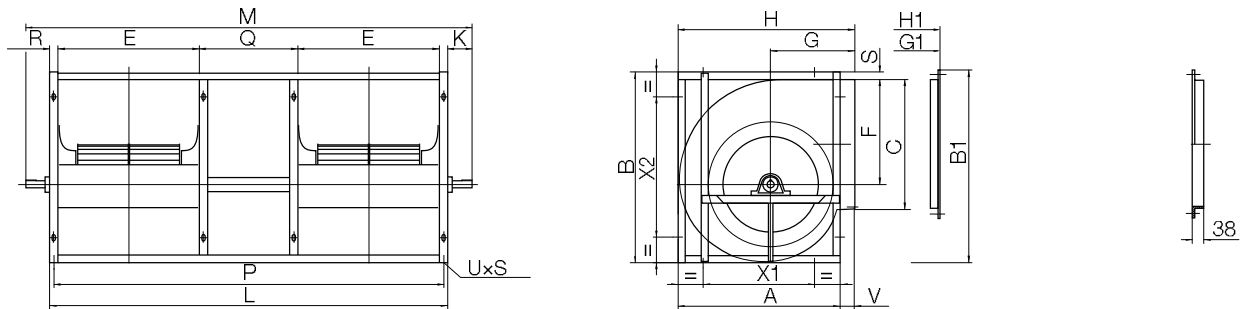
|       | S  | V  | K   | X1  | X2  | t  | t1 | w  | z  | d  | uxs   |
|-------|----|----|-----|-----|-----|----|----|----|----|----|-------|
| 9/7   | 31 | 38 | 80  | 257 | 333 | 8  | 33 | 55 | 60 | 30 | 13x18 |
| 9/9   | 31 | 38 | 80  | 257 | 333 | 8  | 33 | 55 | 60 | 30 | 13x18 |
| 10/8  | 31 | 38 | 80  | 289 | 375 | 8  | 33 | 55 | 60 | 30 | 13x18 |
| 10/10 | 31 | 38 | 80  | 289 | 375 | 8  | 33 | 55 | 60 | 30 | 13x18 |
| 12/09 | 52 | 40 | 110 | 327 | 450 | 10 | 38 | 90 | 91 | 35 | 13x18 |
| 12/12 | 52 | 40 | 110 | 327 | 450 | 10 | 38 | 90 | 91 | 35 | 13x18 |
| 15/11 | 52 | 42 | 110 | 403 | 537 | 10 | 38 | 90 | 91 | 35 | 13x18 |
| 15/15 | 52 | 42 | 110 | 403 | 537 | 10 | 38 | 90 | 91 | 35 | 13x18 |
| 18/13 | 52 | 44 | 110 | 506 | 657 | 12 | 43 | 90 | 97 | 40 | 17x22 |
| 18/18 | 52 | 44 | 110 | 506 | 657 | 12 | 43 | 90 | 97 | 40 | 17x22 |

|       | B1  | G1  | H1  | A2  | B2  | C2  | D2  | E2    | F2    |
|-------|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| 9/7   | 418 | 188 | 388 | 232 | 255 | 288 | 311 | 131.0 | 142.5 |
| 9/9   | 418 | 188 | 388 | 298 | 255 | 354 | 311 | 164.0 | 142.5 |
| 10/8  | 475 | 206 | 434 | 265 | 284 | 321 | 340 | 147.5 | 157.0 |
| 10/10 | 475 | 206 | 434 | 331 | 284 | 387 | 340 | 180.5 | 157.0 |
| 12/09 | 553 | 233 | 500 | 309 | 334 | 365 | 390 | 169.5 | 182.0 |
| 12/12 | 553 | 233 | 500 | 395 | 334 | 451 | 390 | 212.5 | 182.0 |
| 15/11 | 640 | 267 | 578 | 373 | 397 | 429 | 453 | 201.5 | 213.5 |
| 15/15 | 640 | 267 | 578 | 471 | 397 | 527 | 453 | 250.5 | 213.5 |
| 18/13 | 770 | 317 | 693 | 430 | 471 | 486 | 527 | 230.0 | 250.5 |
| 18/18 | 770 | 317 | 693 | 557 | 471 | 613 | 527 | 293.5 | 250.5 |

# AT G2C

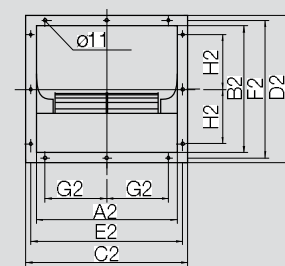
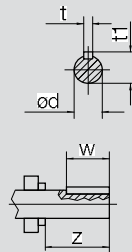
Dimensions in mm, subject to change.

AT G2C 20/15-30/28



AT G2C 20/15-30/28

AT G2C 20/15-30/28



AT G2C 20/15-30/28

|       | A    | B    | C   | E   | F   | G   | H    | L    | M    | P    | Q   | R  |
|-------|------|------|-----|-----|-----|-----|------|------|------|------|-----|----|
| 20/15 | 772  | 967  | 629 | 502 | 520 | 369 | 830  | 1470 | 1730 | 1424 | 370 | 48 |
| 20/20 | 772  | 967  | 629 | 630 | 520 | 369 | 830  | 1866 | 2126 | 1820 | 510 | 48 |
| 22/15 | 847  | 1058 | 695 | 514 | 573 | 398 | 905  | 1470 | 1730 | 1424 | 346 | 48 |
| 22/22 | 847  | 1058 | 695 | 692 | 573 | 398 | 905  | 2050 | 2310 | 2004 | 570 | 48 |
| 25/20 | 952  | 1192 | 797 | 664 | 652 | 438 | 1010 | 1934 | 2194 | 1888 | 510 | 48 |
| 25/25 | 952  | 1192 | 797 | 794 | 652 | 438 | 1010 | 2240 | 2500 | 2194 | 556 | 48 |
| 28/20 | 1060 | 1311 | 870 | 676 | 718 | 485 | 1118 | 1958 | 2220 | 1912 | 510 | 48 |
| 28/28 | 1060 | 1311 | 870 | 870 | 718 | 485 | 1118 | 2550 | 2810 | 2504 | 714 | 48 |
| 30/20 | 1138 | 1410 | 936 | 676 | 776 | 516 | 1196 | 1958 | 2220 | 1912 | 510 | 48 |
| 30/28 | 1138 | 1410 | 936 | 870 | 776 | 516 | 1196 | 2550 | 2810 | 2504 | 714 | 48 |

|       | S  | V  | K   | X1  | X2   | UxS   | t  | t1 | w  | z   | d  |
|-------|----|----|-----|-----|------|-------|----|----|----|-----|----|
| 20/15 | 52 | 58 | 130 | 632 | 827  | 17x22 | 12 | 43 | 90 | 117 | 40 |
| 20/20 | 52 | 58 | 130 | 632 | 827  | 17x22 | 12 | 43 | 90 | 117 | 40 |
| 22/15 | 52 | 58 | 130 | 707 | 918  | 17x22 | 12 | 43 | 90 | 117 | 40 |
| 22/22 | 52 | 58 | 130 | 707 | 918  | 17x22 | 12 | 43 | 90 | 117 | 40 |
| 25/20 | 52 | 58 | 130 | 812 | 1052 | 17x22 | 12 | 43 | 90 | 117 | 40 |
| 25/25 | 52 | 58 | 130 | 812 | 1052 | 17x22 | 12 | 43 | 90 | 117 | 40 |
| 28/20 | 52 | 58 | 131 | 920 | 1171 | 17x22 | 12 | 43 | 90 | 118 | 40 |
| 28/28 | 52 | 58 | 130 | 920 | 1171 | 17x22 | 12 | 43 | 90 | 117 | 40 |
| 30/20 | 52 | 58 | 131 | 998 | 1270 | 17x22 | 12 | 43 | 90 | 118 | 40 |
| 30/28 | 52 | 58 | 130 | 998 | 1270 | 17x22 | 12 | 43 | 90 | 117 | 40 |

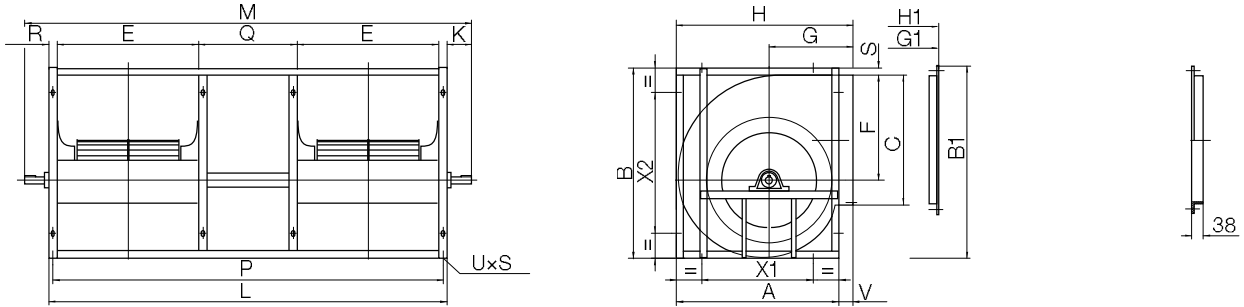
|       | B1   | G1  | H1   | A2  | B2  | C2  | D2   | E2  | F2  | G2  | H2  |
|-------|------|-----|------|-----|-----|-----|------|-----|-----|-----|-----|
| 20/15 | 950  | 372 | 833  | 502 | 622 | 578 | 698  | 542 | 662 | 200 | 275 |
| 20/20 | 950  | 372 | 833  | 630 | 622 | 706 | 698  | 670 | 662 | 275 | 275 |
| 22/15 | 1041 | 401 | 908  | 514 | 688 | 590 | 764  | 554 | 728 | 225 | 300 |
| 22/22 | 1041 | 401 | 908  | 692 | 688 | 768 | 764  | 732 | 728 | 300 | 300 |
| 25/20 | 1175 | 441 | 1013 | 664 | 790 | 740 | 866  | 704 | 830 | 300 | 350 |
| 25/25 | 1175 | 441 | 1013 | 794 | 790 | 870 | 866  | 834 | 830 | 350 | 350 |
| 28/20 | 1293 | 488 | 1121 | 676 | 863 | 752 | 939  | 716 | 903 | 300 | 400 |
| 28/28 | 1293 | 488 | 1121 | 870 | 863 | 946 | 939  | 910 | 903 | 400 | 400 |
| 30/20 | 1393 | 520 | 1200 | 676 | 929 | 752 | 1005 | 716 | 969 | 300 | 425 |
| 30/28 | 1393 | 520 | 1200 | 870 | 929 | 946 | 1005 | 910 | 969 | 400 | 425 |



# AT G2C-C2

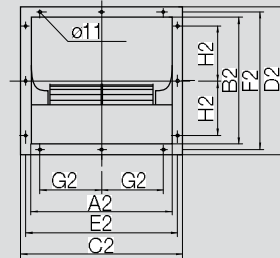
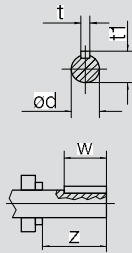
Dimensions in mm, subject to change.

## AT G2C-C2 20/15-30/28



AT G2C-C2 20/15-30/28

AT G2C-C2 20/15-30/28



## AT G2C-C2 20/15-30/28

|       | A    | B    | C   | E   | F   | G   | H    | L    | M    | P    | Q   | R  |
|-------|------|------|-----|-----|-----|-----|------|------|------|------|-----|----|
| 20/15 | 772  | 967  | 629 | 502 | 520 | 369 | 830  | 1470 | 1816 | 1424 | 370 | 48 |
| 20/20 | 772  | 967  | 629 | 630 | 520 | 369 | 830  | 1866 | 2212 | 1820 | 510 | 48 |
| 22/15 | 847  | 1058 | 695 | 514 | 573 | 398 | 905  | 1470 | 1816 | 1424 | 346 | 48 |
| 22/22 | 847  | 1058 | 695 | 692 | 573 | 398 | 905  | 2050 | 2396 | 2004 | 570 | 48 |
| 25/20 | 952  | 1192 | 797 | 664 | 652 | 438 | 1010 | 1934 | 2280 | 1888 | 510 | 48 |
| 25/25 | 952  | 1192 | 797 | 794 | 652 | 438 | 1010 | 2240 | 2586 | 2194 | 556 | 48 |
| 28/20 | 1060 | 1311 | 870 | 676 | 718 | 485 | 1118 | 1958 | 2304 | 1912 | 510 | 48 |
| 28/28 | 1060 | 1311 | 870 | 870 | 718 | 485 | 1118 | 2550 | 2896 | 2504 | 714 | 48 |
| 30/20 | 1138 | 1410 | 936 | 676 | 776 | 516 | 1196 | 1958 | 2304 | 1912 | 510 | 48 |
| 30/28 | 1138 | 1410 | 936 | 870 | 776 | 516 | 1196 | 2550 | 2896 | 2504 | 714 | 48 |

|       | S  | V  | K   | X1  | X2   | UxS   | t  | t1 | w  | z   | d  |
|-------|----|----|-----|-----|------|-------|----|----|----|-----|----|
| 20/15 | 52 | 58 | 173 | 632 | 827  | 17x22 | 14 | 48 | 90 | 130 | 45 |
| 20/20 | 52 | 58 | 173 | 632 | 827  | 17x22 | 14 | 48 | 90 | 130 | 45 |
| 22/15 | 52 | 58 | 173 | 707 | 918  | 17x22 | 14 | 48 | 90 | 130 | 45 |
| 22/22 | 52 | 58 | 173 | 707 | 918  | 17x22 | 14 | 48 | 90 | 130 | 45 |
| 25/20 | 52 | 58 | 173 | 812 | 1052 | 17x22 | 14 | 48 | 90 | 130 | 45 |
| 25/25 | 52 | 58 | 173 | 812 | 1052 | 17x22 | 14 | 48 | 90 | 130 | 45 |
| 28/20 | 52 | 58 | 173 | 920 | 1171 | 17x22 | 14 | 48 | 90 | 130 | 45 |
| 28/28 | 52 | 58 | 173 | 920 | 1171 | 17x22 | 14 | 48 | 90 | 130 | 45 |
| 30/20 | 52 | 58 | 173 | 998 | 1270 | 17x22 | 14 | 48 | 90 | 130 | 45 |
| 30/28 | 52 | 58 | 173 | 998 | 1270 | 17x22 | 14 | 48 | 90 | 130 | 45 |

|       | B1   | G1  | H1   | A2  | B2  | C2  | D2   | E2  | F2  | G2  | H2  |
|-------|------|-----|------|-----|-----|-----|------|-----|-----|-----|-----|
| 20/15 | 950  | 372 | 833  | 502 | 622 | 578 | 698  | 542 | 662 | 200 | 275 |
| 20/20 | 950  | 372 | 833  | 630 | 622 | 706 | 698  | 670 | 662 | 275 | 275 |
| 22/15 | 1041 | 401 | 908  | 514 | 688 | 590 | 764  | 554 | 728 | 225 | 300 |
| 22/22 | 1041 | 401 | 908  | 692 | 688 | 768 | 764  | 732 | 728 | 300 | 300 |
| 25/20 | 1175 | 441 | 1013 | 664 | 790 | 740 | 866  | 704 | 830 | 300 | 350 |
| 25/25 | 1175 | 441 | 1013 | 794 | 790 | 870 | 866  | 834 | 830 | 350 | 350 |
| 28/20 | 1293 | 488 | 1121 | 676 | 863 | 752 | 939  | 716 | 903 | 300 | 400 |
| 28/28 | 1293 | 488 | 1121 | 870 | 863 | 946 | 939  | 910 | 903 | 400 | 400 |
| 30/20 | 1393 | 520 | 1200 | 676 | 929 | 752 | 1005 | 716 | 969 | 300 | 425 |
| 30/28 | 1393 | 520 | 1200 | 870 | 929 | 946 | 1005 | 910 | 969 | 400 | 425 |



# AT S 7/7-18/18

## Specifications



### High performance centrifugal fan AT S

Double width double inlet (DWDI) belt driven fan, with forward curved blades.

Lap-jointed scroll of galvanized steel EN 10142 assembled with roller-lock seaming. Straight cut off plate at fan outlet.

Impeller with forward curved blades of galvanized steel EN 10142, statically and dynamically balanced to grade G4, according to UNI ISO 1940.

Light construction, without side frames.

Single row, deep groove, self-aligning ball bearings, lubricated and sealed for life, with eccentric collar locking. Bearings are mounted inside conductive rubber vibration absorbers on bearing supporting spiders.

The mounting feet, which allow the fan to be installed in the 4 positions 0, 90, 180 and 270, as well as the outlet flange, are available on request.

For sizes from 7/7 to 10/10, in addition to the standard construction version with flats on shaft ends ("type 1"), it is also available a version with keyways ("type 2").

Shaft ends of larger sizes are only of "Type 2".

## Fan data

|                                |                  |                   |
|--------------------------------|------------------|-------------------|
| Fan type                       | .....            |                   |
| Volume flow                    | $q_V$ .....      | m <sup>3</sup> /h |
| Total pressure increase        | $p_T$ .....      | Pa                |
| Static pressure                | $p_{sF}$ .....   | Pa                |
| Air density at fan inlet       | $\rho_1$ .....   | kg/m <sup>3</sup> |
| Air medium temperature         | $t$ .....        | °C                |
| Shaft power                    | $P_a$ .....      | kW                |
| Efficiency                     | $(\eta_e)$ ..... |                   |
| Speed                          | $N$ .....        | 1/min             |
| Sound power level (A weighted) | $L_{WA}$ .....   | dB                |
| Weight                         | $m$ .....        | kg                |

## Fittings / Accessories

- Mounting feet
- Motor brackets (Pick-A-Back)
- Discharge flange
- Discharge flex with flexible sleeve
- Inlet guards
- Discharge guard
- Shaft guard for free shaft end
- Matching flange

Options may be available only for orders of a minimum quantity, to be previously agreed

- Inspection door
- Drain plug
- Single or double thickness powder coating
- Shaft made of stainless steel
- Nuts and bolts and fastening elements made of stainless steel
- Aluminium inlet cone
- Copper inlet cone

# AT SC 7/7-18/18

## AT C 7/7-18/18

### Specifications



#### High performance centrifugal fan AT SC and AT C

Double width double inlet (DWDI) belt driven fan, with forward curved blades. Lap-jointed scroll of galvanized steel EN 10142 assembled through roller-lock seaming.

Straight cut off plate at fan outlet.

Impeller with forward curved blades of galvanized steel EN 10142, statically and dynamically balanced to grade G4, according to UNI ISO 1940.

Construction with two side frames, made of cold-formed galvanized steel angular sections welded to the side plates, for a better strength and stiffness of the fan structure.

Single row, deep groove, self-aligning ball bearings, lubricated and sealed for life, with eccentric collar locking. Bearings are mounted inside conductive rubber vibration absorbers on bearing supporting spiders.

It can be easily installed in four different positions.

Discharge flange on request.

Where an even better mechanical strength is required, e.g. when the fan itself is used as a stiffening element of the base frame, a further reinforced version is available. It is identified by the letter C.

This version is available in the same sizes as the SC version, with the same dimensions and the same performance limits. With the addition of three steel bars, welded between three corners of the side frames, the frames of these fans are joined to form a closed, box-like supporting structure.

For sizes from 7/7 to 10/10, in addition to the standard construction version with flats on shaft ends ("type 1"), it is also available a version with keyways ("type 2").

Shaft ends of larger sizes are only of "Type 2".

### Fan data

|                                |                  |                   |
|--------------------------------|------------------|-------------------|
| Fan type                       | .....            |                   |
| Volume flow                    | $q_V$ .....      | m <sup>3</sup> /h |
| Total pressure increase        | $p_F$ .....      | Pa                |
| Static pressure                | $p_{sF}$ .....   | Pa                |
| Air density at fan inlet       | $\rho_1$ .....   | kg/m <sup>3</sup> |
| Air medium temperature         | $t$ .....        | °C                |
| Shaft power                    | $P_a$ .....      | kW                |
| Efficiency                     | $(\eta_e)$ ..... |                   |
| Speed                          | $N$ .....        | 1/min             |
| Sound power level (A weighted) | $L_{WA}$ .....   | dB                |
| Weight                         | $m$ .....        | kg                |

### Fittings / Accessories

- Mounting feet
- Motor brackets (Pick-A-Back)
- Discharge flange
- Discharge flex with flexible sleeve
- Inlet guards
- Discharge guard
- Shaft guard for free shaft end
- Matching flange

Options may be available only for orders of a minimum quantity, to be previously agreed

- Inspection door
- Drain plug
- Single or double thickness powder coating
- Shaft made of stainless steel
- Nuts and bolts and fastening elements made of stainless steel
- Aluminium inlet cone
- Copper inlet cone

# AT AR 9/7-18/18

## Specifications



### High performance centrifugal fan AT AR

Double width double inlet (DWDI) belt driven fan, with forward curved blades.  
 Lap-jointed scroll of galvanized steel EN 10142 assembled with roller-lock seaming.  
 Straight cut off plate at fan outlet.  
 Impeller with forward curved blades of galvanized steel EN 10142, statically and dynamically balanced to grade G4, according to UNI ISO 1940.  
 For applications requiring even higher installed power, or where there is a requirement for re-lubricatable bearings, the AR version is the correct solution.  
 The reinforced side-frames are made of galvanized steel sections, welded to the sides of the scroll and joined together in three corners.  
 Single row, deep groove, self-aligning ball bearings, re-lubricatable and reinforced, with eccentric collar locking. Bearings are mounted inside a single-piece cast iron pillow block.  
 It can be easily installed in four different positions.  
 Discharge flange on request.

## Fan data

|                                |                  |                   |
|--------------------------------|------------------|-------------------|
| Fan type                       | .....            |                   |
| Volume flow                    | $q_V$ .....      | m <sup>3</sup> /h |
| Total pressure increase        | $p_F$ .....      | Pa                |
| Static pressure                | $p_{sF}$ .....   | Pa                |
| Air density at fan inlet       | $\rho_1$ .....   | kg/m <sup>3</sup> |
| Air medium temperature         | $t$ .....        | °C                |
| Shaft power                    | $P_a$ .....      | kW                |
| Efficiency                     | $(\eta_e)$ ..... |                   |
| Speed                          | $N$ .....        | 1/min             |
| Sound power level (A weighted) | $L_{WA}$ .....   | dB                |
| Weight                         | $m$ .....        | kg                |

## Fittings / Accessories

- Mounting feet
- Motor brackets (Pick-A-Back)
- Discharge flange
- Discharge flex with flexible sleeve
- Inlet guards
- Discharge guard
- Shaft guard for free shaft end
- Matching flange

Options may be available only for orders of a minimum quantity, to be previously agreed

- Inspection door
- Drain plug
- Single or double thickness powder coating
- Shaft made of stainless steel
- Nuts and bolts and fastening elements made of stainless steel
- Aluminium inlet cone
- Copper inlet cone

# AT TIC 20/15-30/28

## Specifications



### High performance centrifugal fan AT TIC

Double width double inlet (DWDI) belt driven fan, with forward curved blades.  
 Lap-jointed scroll of galvanized steel EN 10142 assembled with Pittsburgh lock seam.  
 Straight cut off plate at fan outlet.  
 Impeller with forward curved blades of galvanized steel EN 10142, statically and dynamically balanced with grade G4, according to UNI ISO 1940.  
 Mechanically designed in a way very similar to the previous version, apart for the larger sized impeller and a fourth traverse, so the frames on the sides are joined together in all the four corners.  
 Single row, deep groove, self-aligning ball bearings, re-lubricatable and reinforced, with eccentric collar locking. Bearings are mounted inside a single-piece cast iron pillow block.  
 It can be easily installed in four different positions.  
 Discharge flange on request.

## Fan data

|                                |                  |                   |
|--------------------------------|------------------|-------------------|
| Fan type                       | .....            |                   |
| Volume flow                    | $q_v$ .....      | m <sup>3</sup> /h |
| Total pressure increase        | $p_F$ .....      | Pa                |
| Static pressure                | $p_{sF}$ .....   | Pa                |
| Air density at fan inlet       | $\rho_1$ .....   | kg/m <sup>3</sup> |
| Air medium temperature         | $t$ .....        | °C                |
| Shaft power                    | $P_a$ .....      | kW                |
| Efficiency                     | $(\eta_e)$ ..... |                   |
| Speed                          | $N$ .....        | 1/min             |
| Sound power level (A weighted) | $L_{WA}$ .....   | dB                |
| Weight                         | $m$ .....        | kg                |

## Fittings / Accessories

- Mounting feet
- Motor brackets (Pick-A-Back)
- Discharge flange
- Discharge flex with flexible sleeve
- Inlet guards
- Discharge guard
- Shaft guard for free shaft end

Options may be available only for orders of a minimum quantity, to be previously agreed

- Matching flange
- Inspection door
- Drain plug
- Single or double thickness powder coating
- Shaft made of stainless steel
- Nuts and bolts and fastening elements made of stainless steel
- Aluminium inlet cone
- Copper inlet cone

# AT G2L 7/7-18/18

## Specifications



### High performance centrifugal twin fan AT G2L

(size from 7/7 to 18/18)

Lap-jointed scroll of galvanized steel EN 10142 assembled with roller-lock seaming. This twin version is made with two S version single fans, connected through three U-section spars and is fitted with two double-inlet impellers mounted on a common shaft, supported by three bearings.

## Fan data

|                                |                  |                   |
|--------------------------------|------------------|-------------------|
| Fan type                       | .....            |                   |
| Volume flow                    | $q_V$ .....      | m <sup>3</sup> /h |
| Total pressure increase        | $p_F$ .....      | Pa                |
| Static pressure                | $p_{sF}$ .....   | Pa                |
| Air density at fan inlet       | $\rho_1$ .....   | kg/m <sup>3</sup> |
| Air medium temperature         | $t$ .....        | °C                |
| Shaft power                    | $P_a$ .....      | kW                |
| Efficiency                     | $(\eta_e)$ ..... |                   |
| Speed                          | $N$ .....        | 1/min             |
| Sound power level (A weighted) | $L_{WA}$ .....   | dB                |
| Weight                         | $m$ .....        | kg                |

## Fittings / Accessories

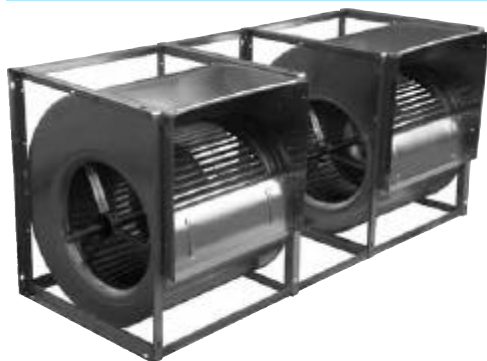
- Mounting feet
- Motor brackets (Pick-A-Back)
- Discharge flange
- Discharge flex with flexible sleeve
- Inlet guards
- Discharge guard
- Shaft guard for free shaft end
- Matching flange

Options may be available only for orders of a minimum quantity, to be previously agreed

- Inspection door
- Drain plug
- Single or double thickness powder coating
- Shaft made of stainless steel
- Nuts and bolts and fastening elements made of stainless steel
- Aluminium inlet cone
- Copper inlet cone

# AT SC2 7/7-18/18

## Specifications



### High performance centrifugal twin fan AT-SC2

(size from 7/7 to 18/18)

Lap-jointed scroll of galvanized steel EN 10142 assembled with roller-lock seaming.

Twin version, made of two SC version fans, joined by three L-section spars, welded in the corners of the side frames.

Two double-inlet impellers are mounted on a single shaft, supported by three bearings on rubber shock absorbers and inlet-mounted supporting spiders.

The SC2 fans have the same characteristics of the G2L versions but with the additional stiffness provided by the welded frame.

## Fan data

|                                |                  |                   |
|--------------------------------|------------------|-------------------|
| Fan type                       | .....            |                   |
| Volume flow                    | $q_V$ .....      | m <sup>3</sup> /h |
| Total pressure increase        | $p_F$ .....      | Pa                |
| Static pressure                | $p_{sF}$ .....   | Pa                |
| Air density at fan inlet       | $\rho_1$ .....   | kg/m <sup>3</sup> |
| Air medium temperature         | $t$ .....        | °C                |
| Shaft power                    | $P_a$ .....      | kW                |
| Efficiency                     | $(\eta_e)$ ..... |                   |
| Speed                          | $N$ .....        | 1/min             |
| Sound power level (A weighted) | $L_{WA}$ .....   | dB                |
| Weight                         | $m$ .....        | kg                |

## Fittings / Accessories

- Mounting feet
- Motor brackets (Pick-A-Back)
- Discharge flange
- Discharge flex with flexible sleeve
- Inlet guards
- Discharge guard
- Shaft guard for free shaft end
- Matching flange

Options may be available only for orders of a minimum quantity, to be previously agreed

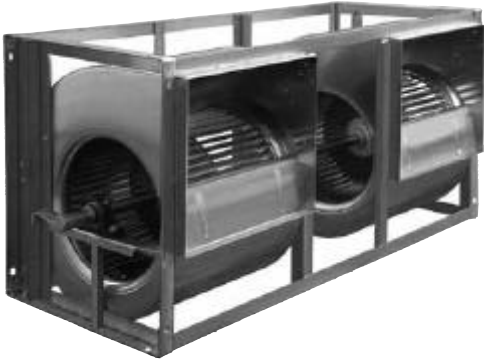
- Inspection door
- Drain plug
- Single or double thickness powder coating
- Shaft made of stainless steel
- Nuts and bolts and fastening elements made of stainless steel
- Aluminium inlet cone
- Copper inlet cone



# AT G2C 9/7-30/28

## AT G2C-C2 20/15-30/28

### Specifications



#### High performance centrifugal twin fan AT-G2C

(size from 9/7 to 30/28)

Lap-jointed scroll of galvanized steel EN 10142 assembled with roller-lock seaming (size up to 18/18) or with Pittsburgh lock seam (for sizes larger than 18/18).

Inside a common supporting frame, made of galvanized steel sections, two double-inlet fans are mounted side-by-side.

They are joined by a single shaft, supported at the ends by two pillow-block bearings, bolted on the side frames.

This particular design doesn't need a third bearing between the impellers, and weight is kept low thanks to the use of large section, hollow shafts on the larger sizes.

#### High performance centrifugal twin fan AT-G2C-C2

(size from 20/15 to 30/28)

Lap-jointed scroll of galvanized steel EN 10142 assembled with Pittsburgh lock seam. The G2C-C2 fan is a reinforced twin unit, suitable to achieve higher speed and power levels than the G2C.

Mechanical design is similar to that of the G2C fans, but hollow shafts with larger diameter (45 mm) journals and heavy duty split-block bearings make them stronger. The G2C-C2 fans retain the other characteristics of the G2C fans.



### Fan data

|                                |                  |                   |
|--------------------------------|------------------|-------------------|
| Fan type                       | .....            |                   |
| Volume flow                    | $q_V$ .....      | m <sup>3</sup> /h |
| Total pressure increase        | $p_F$ .....      | Pa                |
| Static pressure                | $p_{sF}$ .....   | Pa                |
| Air density at fan inlet       | $\rho_1$ .....   | kg/m <sup>3</sup> |
| Air medium temperature         | $t$ .....        | °C                |
| Shaft power                    | $P_a$ .....      | kW                |
| Efficiency                     | $(\eta_e)$ ..... |                   |
| Speed                          | $N$ .....        | 1/min             |
| Sound power level (A weighted) | $L_{WA}$ .....   | dB                |
| Weight                         | $m$ .....        | kg                |

### Fittings / Accessories

- Mounting feet
- Motor brackets (Pick-A-Back)
- Discharge flange
- Discharge flex with flexible sleeve
- Inlet guards
- Discharge guard
- Shaft guard for free shaft end
- Matching flange

Options may be available only for orders of a minimum quantity, to be previously agreed

- Inspection door
- Drain plug
- Single or double thickness powder coating
- Shaft made of stainless steel
- Nuts and bolts and fastening elements made of stainless steel
- Aluminium inlet cone
- Copper inlet cone

# AT SC2 7/7-18/18

## Specifications

### High performance centrifugal tripple fan AT G3C

(size from 12/9 to 30/28)

Lap-jointed scroll of galvanized steel EN 10142 assembled with roller-lock seaming (size up to 18/18) or with Pittsburgh lock seam (for sizes larger than 18/18)

The G3C is a triple fan: three identical double-inlet units are mounted inside a common frame of steel sections.

The single, common shaft is supported by just two pillow-block bearings, bolted on the end frames.

This special version is particularly suited when a large airflow must be distributed on a wide surface, or when a fan of particularly limited height can be useful.

Other advantages of this design are the use of a single motor, operation without bearings installed between the impellers, and low weight thanks to the use of hollow shafts.

Using a common shaft, without intermediate bearings and couplings, provides also a reliable and smooth operation, with limited operating noise.

### High performance centrifugal tripple fan AT G3C-C2

(size from 20/15 to 30/28)

Lap-jointed scroll of galvanized steel EN 10142 assembled with Pittsburgh lock seam.

Of similar construction to the G3C version, but employs larger diameter hollow shafts, with larger diameter journals and heavy-duty bearings on split-type pillow blocks.

These improvements allow operation at higher speed and power levels.

The G3C-C2 fans keep unchanged all the other characteristics of the G3C fans.

## Fan data

|                                |                  |                   |
|--------------------------------|------------------|-------------------|
| Fan type                       | .....            |                   |
| Volume flow                    | $q_v$ .....      | m <sup>3</sup> /h |
| Total pressure increase        | $p_F$ .....      | Pa                |
| Static pressure                | $p_{sF}$ .....   | Pa                |
| Air density at fan inlet       | $\rho_1$ .....   | kg/m <sup>3</sup> |
| Air medium temperature         | $t$ .....        | °C                |
| Shaft power                    | $P_a$ .....      | kW                |
| Efficiency                     | $(\eta_e)$ ..... |                   |
| Speed                          | $N$ .....        | 1/min             |
| Sound power level (A weighted) | $L_{WA}$ .....   | dB                |
| Weight                         | $m$ .....        | kg                |

## Fittings / Accessories

- Mounting feet
- Motor brackets (Pick-A-Back)
- Discharge flange
- Discharge flex with flexible sleeve
- Inlet guards
- Discharge guard
- Shaft guard for free shaft end
- Matching flange

Options may be available only for orders of a minimum quantity, to be previously agreed

- Inspection door
- Drain plug
- Single or double thickness powder coating
- Shaft made of stainless steel
- Nuts and bolts and fastening elements made of stainless steel
- Aluminium inlet cone
- Copper inlet cone