BLOWTECH
we make air move

# Direct Driven Axial Flow Fans (Adjustable Pitch)

# DXL Series

www.blowtech.in

Blowtech Air Devices Pvt. Ltd. was founded in 1988 and quickly established itself as a leading manufacturer and exporter of HVAC fans and ventilation products in India. The company has excelled in the design, development and manufacture of the following high quality product line for a wide range of HVAC&R applications:

- Centrifugal and Axial Flow Fans and Impellers
- Inline Duct Fans
- Cabinet Fans
- Commercial Kitchen Ventilation Fans
- Fan Filter Units
- Evaporative Coolers & Scrubbers
- Energy Recovery Ventilators (ERVs)
- Air to Air Plate Type Heat Exchangers

Blowtech's Fan Test Lab as per AMCA210

The company's 30,000 sq. ft., state of the art manufacturing facility near New Delhi (India) incorporates the most modern equipment & machines, a skilled workforce & over twenty-five years of rich experience. The production process is supported by a complete in house design and development facility and a full fledged tool room. All tools, jigs, fixtures and special purpose machines (SPMs) are designed and developed in house. All fan components are manufactured exclusively with the aid of precision tools and dies. This ensures inbuilt quality and consistency in fan performance fan after fan, year after year.

Blowtech passed ISO-9001 QMS certification in 2003 and is a member of the Air Movement and Control Association, International (AMCA). Consistent with its objectives of designing for optimum quality and performance, the company has its own Fan Test Laboratory which houses a Multiple Nozzle Test Chamber in accordance with AMCA Standard 210. The line of products including centrifugal fans, tube axial fans, kitchen exhaust fans, cabinet fans, direct driven fans, fan blades and impellers are tested in this in-house laboratory for performance evaluation and design validation.

Blowtech's 30,000 Sq. Ft. state of the art manufacturing plant near New Delhi (India)

To ensure long life and vibration-free operation, each impeller is first checked for eccentricity and run-out. Only after passing this quality check, the impeller is ready for balancing on computerized dynamic balancing machines. Balancing is done as per balance quality grade G 4.0 of the International Standard ISO 1940.

On the basis of advanced management ideas and perfect quality systems, Blowtech constantly strives to absorb and adopt latest technologies, precisely control the quality in each of its working processes and actively promote its products to keep it at the leading position in the HVAC&R industry in India. Our stakeholders' and affiliate relationship networks ensure that we remain at the forefront of industry knowledge and future technology trends. Our skills, infrastructure and experience are trusted by our customers to optimize performance, minimize costs and increase efficiencies of their products. Our people ensure the success of our company, bringing the best in commercial understanding, technical capabilities and market know-how to bear on our customers' business.

BLOWTECH
we make air move

# DXL Series

## Direct Driven Axial Flow Fans (Adjustable Pitch)

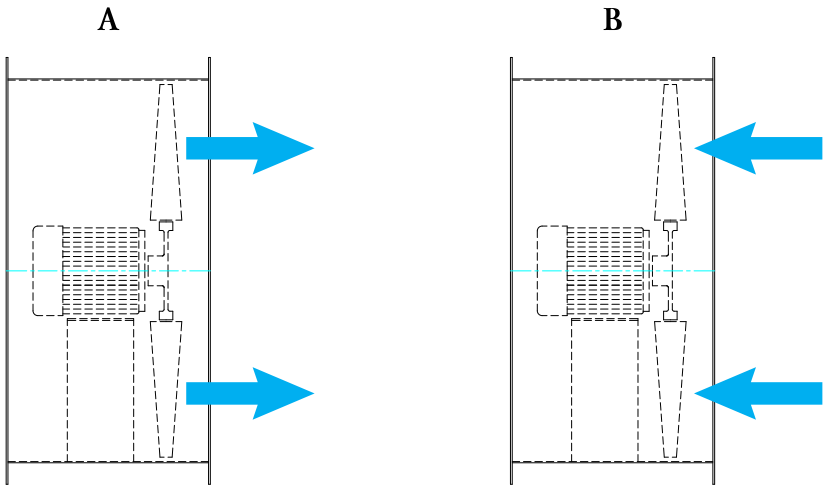
Blowtech Air Devices Pvt. Ltd. certifies that the **DXL Series Fan Models 710 to 1250** shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

# DXL Series - Direct Driven Axial Flow Fan (Adjustable Pitch)

**Construction and Design Features:**

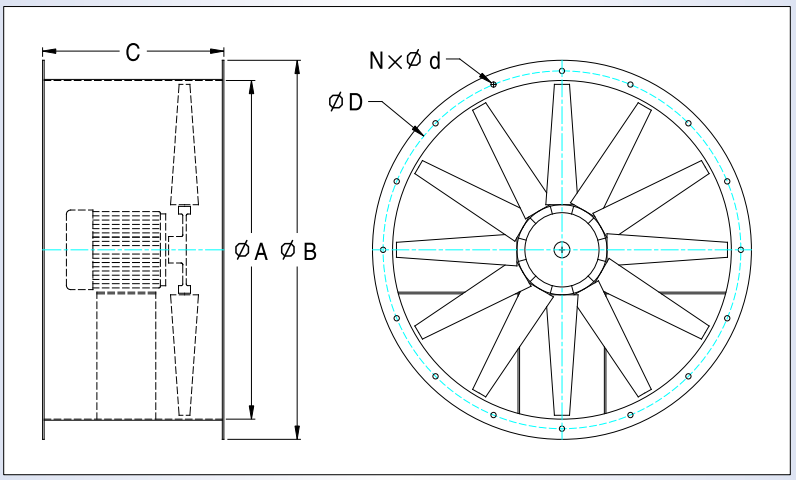
- Available in sizes from 315mm diameter to 1600mm diameter with air delivery capacity up to 2,40,000 $m^3/h$. Detail for sizes 315 to 450 is available on request.
- High efficiency low noise impeller with aerofoil blades made of pressure die-cast aluminum alloy.
- A specially designed central hub made of pressure die-cast aluminum alloy. The hub design permits a choice of the no. of blades and a range of blade pitch angles during assembly to provide a wide range of air performance at a given speed.
- The special design of the impeller allows meeting any performance requirement in a direct drive configuration, thus doing away with the need for costly and maintenance prone belt drives.
- The cylindrical casing is made from heavy gauge mild steel and finished with epoxy powder coating for a long life.
- Precisely circular casing allows minimum blade tip clearance for optimum performance.
- Totally enclosed fan cooled ball bearing motors of reputed make with class 'F' insulation and IP55 protection are standard. Class 'H' insulation motors can be provided for high temperature operation like smoke spill applications.
- Standard fans are provided in the 'Ceiling Suspended' mounting arrangement. Other mounting arrangements like 'Floor Mounting' can be supplied on request.
- Different combinations of blade diameter, no. of blades, blade pitch angle and motor speed (2P, 4P, 6P and 8P) allow fan selection in direct drive configuration for virtually any duty point. This lead to a very cost effective solution for applications requiring expulsion of large volumes of air.
- A wide range of accessories are available on request – mounting feet, protection guard, flexible connection, anti-vibration mount and silencer.
- Inspection window to ascertain correct blade rotation.
- Fans are supplied with air flow configuration 'A' or 'B'. Please specify while ordering.

## Flow Configuration



## Dimensions :

### DXL Series Adjustable Pitch Axial Flow Fans




| Model | A | B | C | D | N | d |
|---|---|---|---|---|---|---|
| **315** | 315 | 368 | 350 | 340 | 8 | 10 |
| **355** | 355 | 408 | 400 | 380 | 8 | 10 |
| **400** | 400 | 453 | 400 | 425 | 12 | 10 |
| **450** | 450 | 514 | 450 | 480 | 12 | 10 |
| **500** | 500 | 564 | 450 | 530 | 12 | 12 |
| **560** | 560 | 624 | 450 | 590 | 12 | 12 |
| **630** | 630 | 705 | 450 | 665 | 12 | 12 |
| **710** | 710 | 785 | 600 | 745 | 16 | 12 |
| **800** | 800 | 885 | 600 | 840 | 16 | 12 |
| **900** | 900 | 985 | 600 | 940 | 16 | 15 |
| **1000** | 1000 | 1085 | 800 | 1040 | 16 | 15 |
| **1120** | 1120 | 1205 | 800 | 1160 | 20 | 15 |
| **1250** | 1250 | 1335 | 800 | 1290 | 20 | 15 |
| **1400** | 1400 | 1505 | 800 | 1450 | 20 | 15 |
| **1600** | 1600 | 1705 | 900 | 1650 | 24 | 15 |

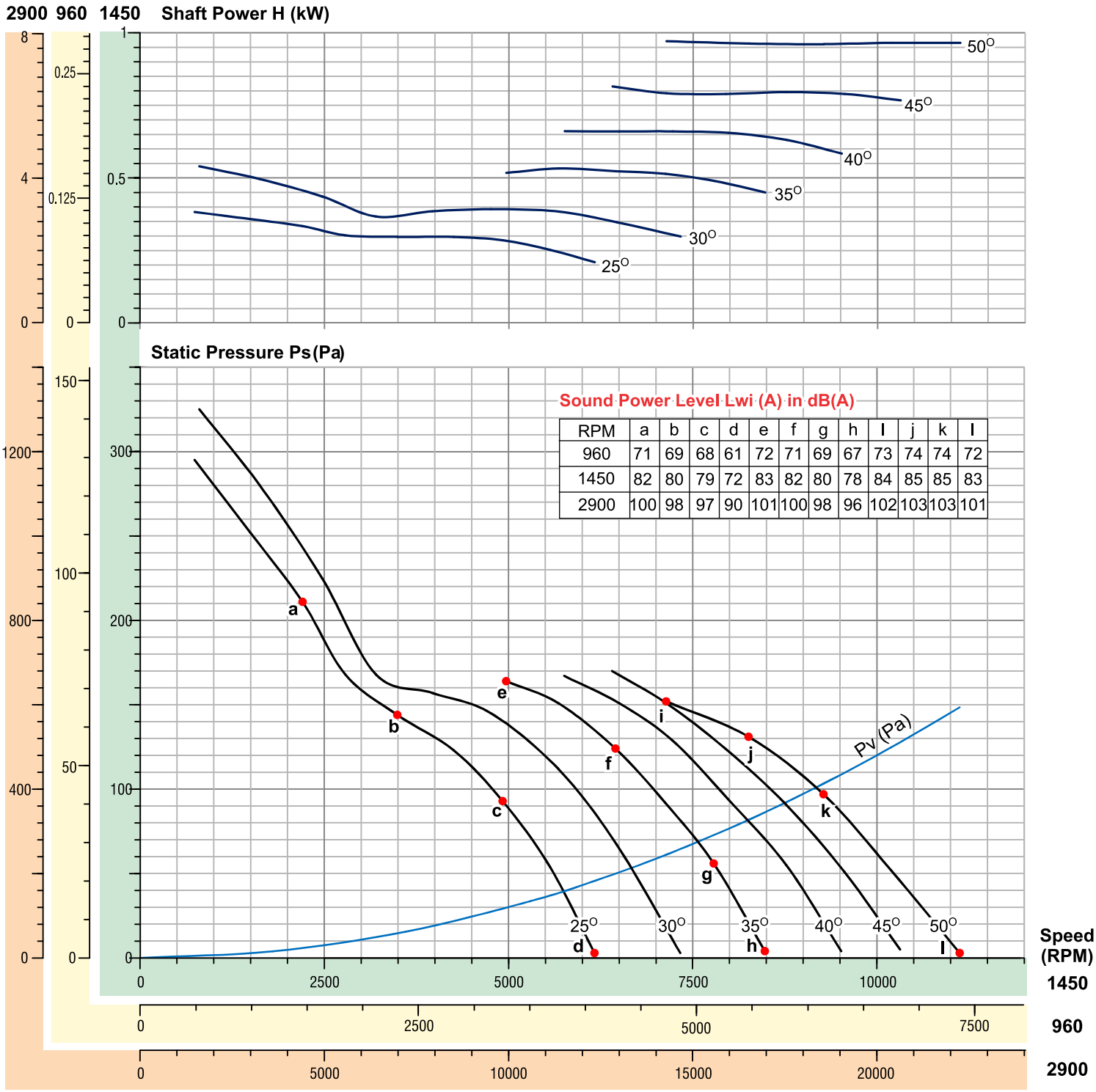
All dimensions are in mm

BLOWTECH
we make air move

Axial Flow Fan

# DXL 500/5-5/50 Hz

Outlet Area = 0.1964 $m^2$, $\rho$ = 1.2kg/$m^3$, Hub diameter = 150mm




**Sound Power Level Lwi (A) in dB(A)**

| RPM | a | b | c | d | e | f | g | h | I | j | k | l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 960 | 71 | 69 | 68 | 61 | 72 | 71 | 69 | 67 | 73 | 74 | 74 | 72 |
| 1450 | 82 | 80 | 79 | 72 | 83 | 82 | 80 | 78 | 84 | 85 | 85 | 83 |
| 2900 | 100 | 98 | 97 | 90 | 101 | 100 | 98 | 96 | 102 | 103 | 103 | 101 |

**Volume Flow Q ($m^3$/h)**

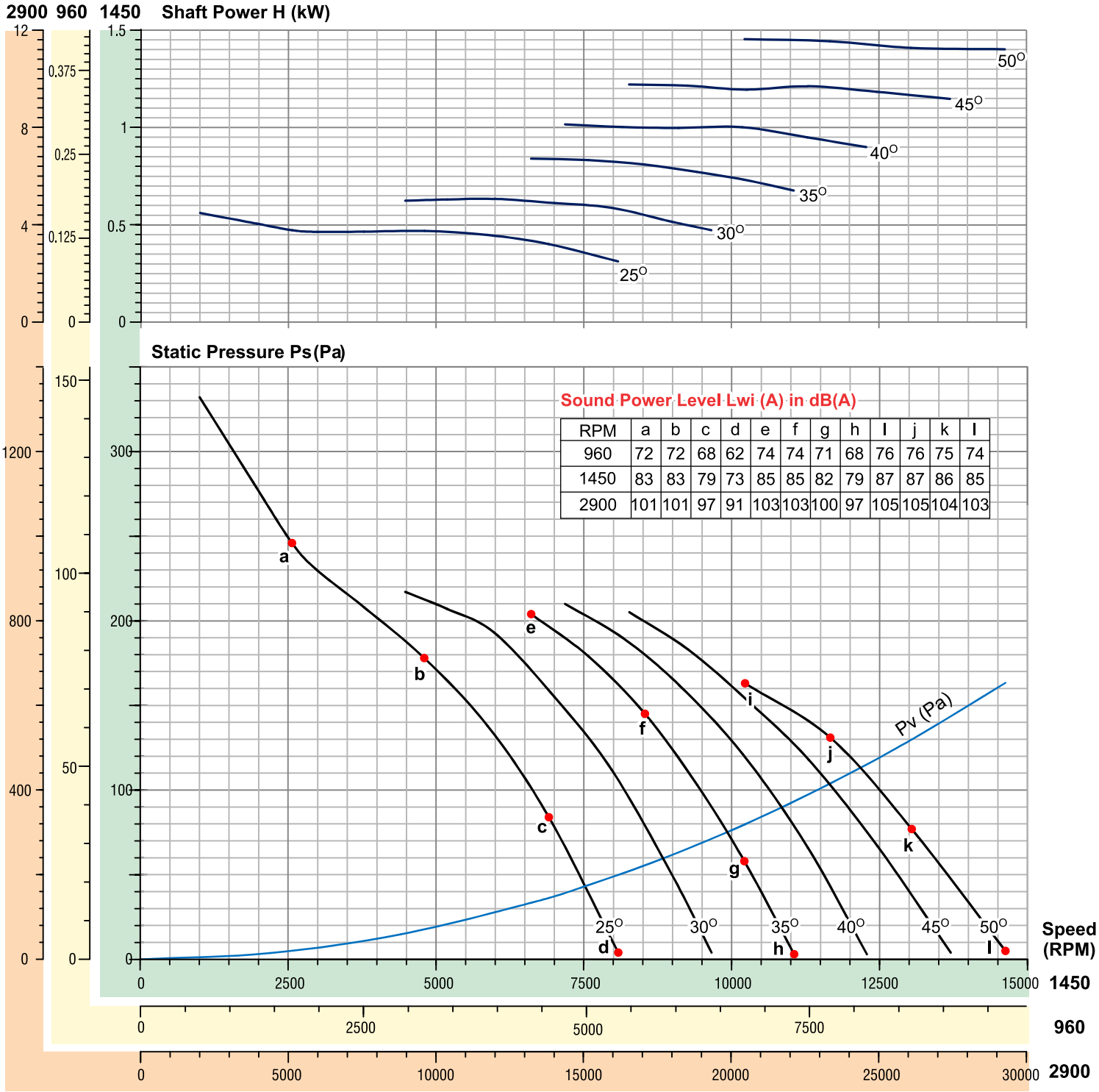
- Performance shown is for installation type D-Ducted inlet, Ducted outlet.
  Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwiA sound power levels for installation Type D-Ducted inlet, Ducted outlet.
- Model DXL500 is not licensed to bear the AMCA Certified Ratings seal.

BLOWTECH
we make air move

Axial Flow Fan

# DXL 560/5-5/50 Hz

Outlet Area = 0.2463 $m^2$, $\rho$ = 1.2kg/$m^3$ , Hub diameter = 150mm




**Sound Power Level Lwi (A) in dB(A)**

| RPM | a | b | c | d | e | f | g | h | I | j | k | l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 960 | 72 | 72 | 68 | 62 | 74 | 74 | 71 | 68 | 76 | 76 | 75 | 74 |
| 1450 | 83 | 83 | 79 | 73 | 85 | 85 | 82 | 79 | 87 | 87 | 86 | 85 |
| 2900 | 101 | 101 | 97 | 91 | 103 | 103 | 100 | 97 | 105 | 105 | 104 | 103 |

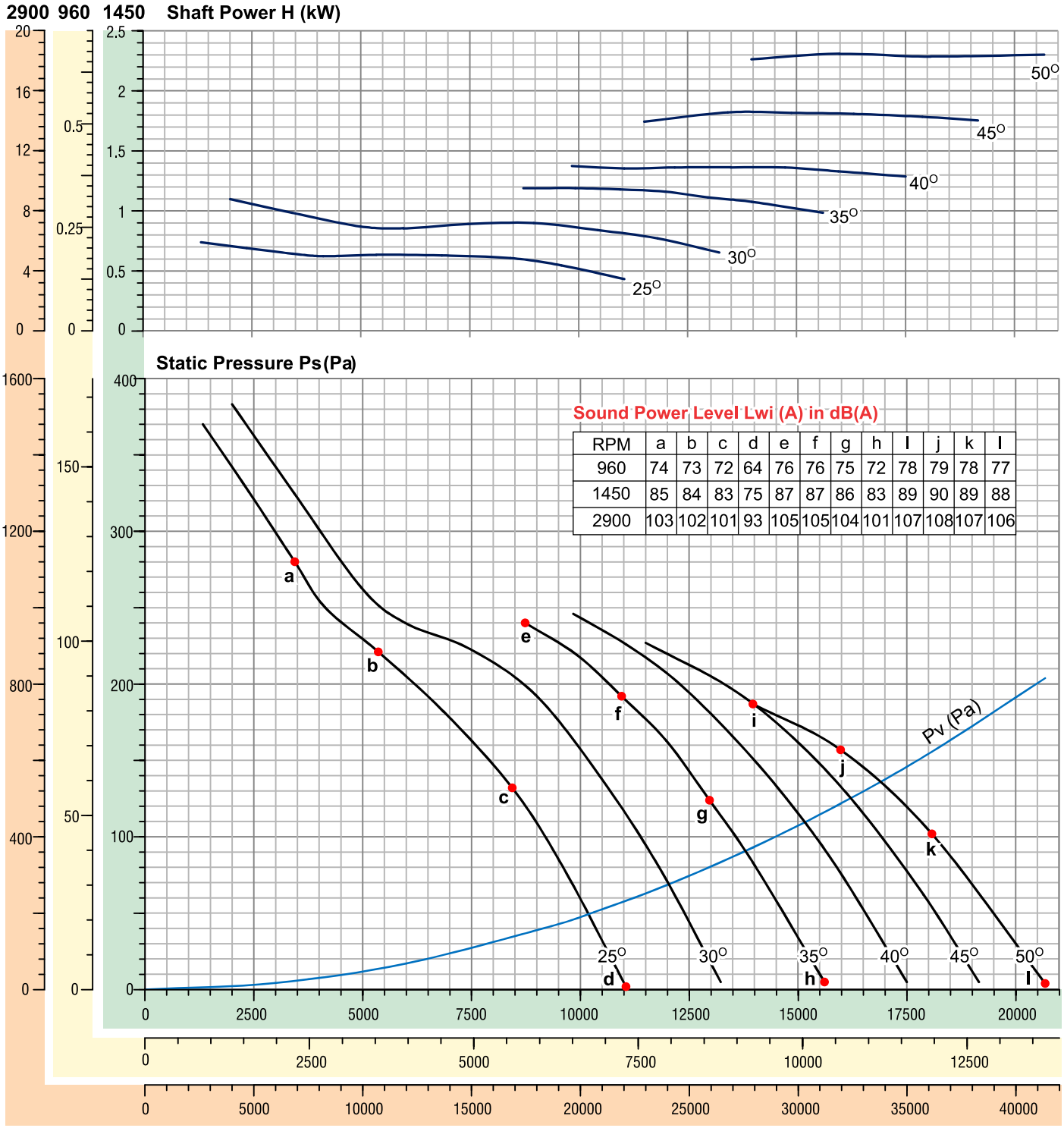
- Performance shown is for installation type D-Ducted inlet, Ducted outlet.
  Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwiA sound power levels for installation Type D-Ducted inlet, Ducted outlet.
- Model DXL560 is not licensed to bear the AMCA Certified Ratings seal.

BLOWTECH
we make air move

Axial Flow Fan

# DXL 630/5-5/50 Hz

Outlet Area = 0.3117 $m^2$, $\rho$ = 1.2kg/$m^3$ , Hub diameter = 150mm




- Performance shown is for installation type D-Ducted inlet, Ducted outlet.
  Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwiA sound power levels for installation Type D-Ducted inlet, Ducted outlet.
- Model DXL630 is not licensed to bear the AMCA Certified Ratings seal.

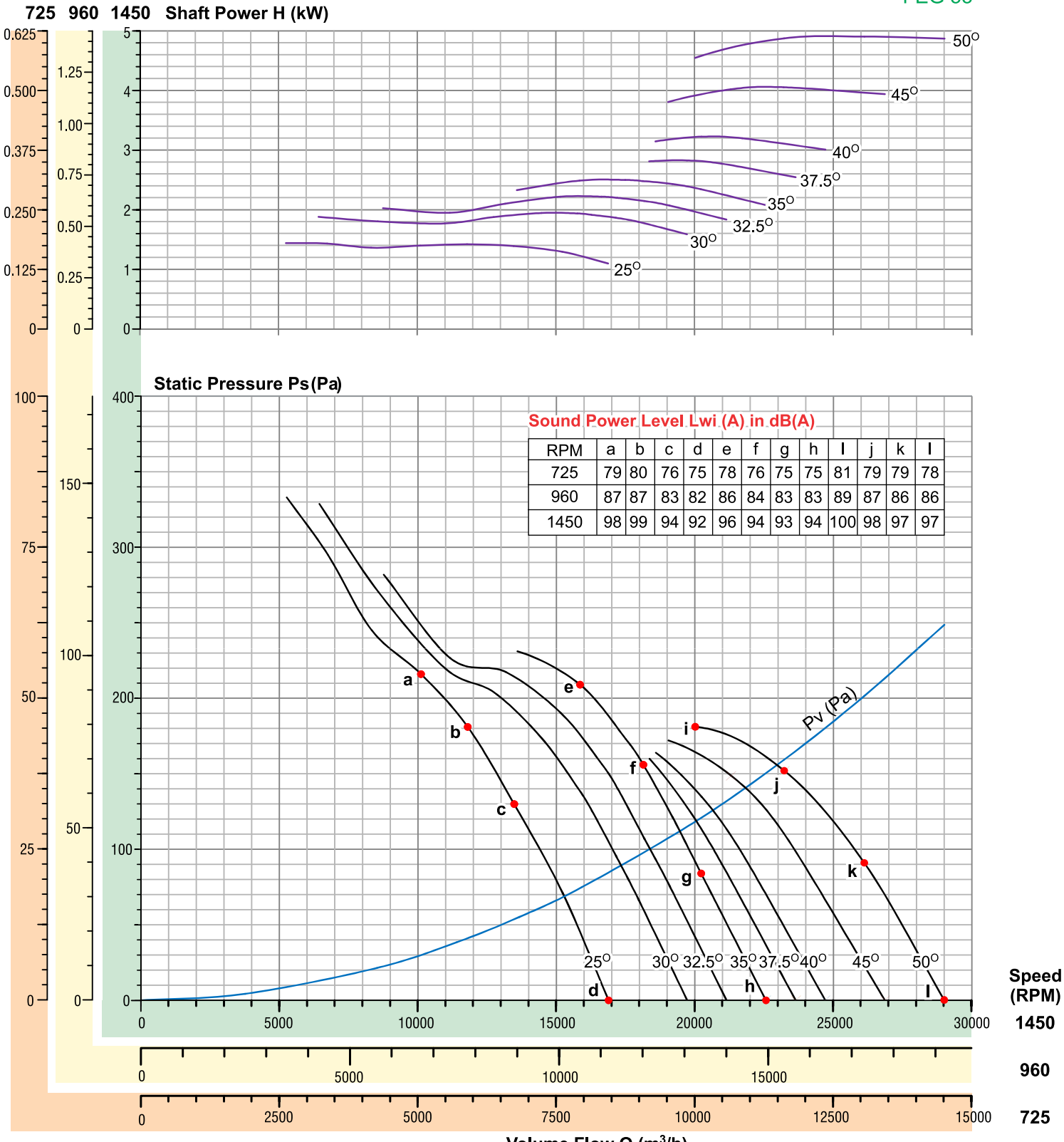
BLOWTECH
we make air move

Axial Flow Fan

# DXL 710/6-12/50 Hz

Outlet Area = 0.3959 $m^2$, $\rho$ = 1.2kg/$m^3$, Hub diameter = 280mm

FEG 53

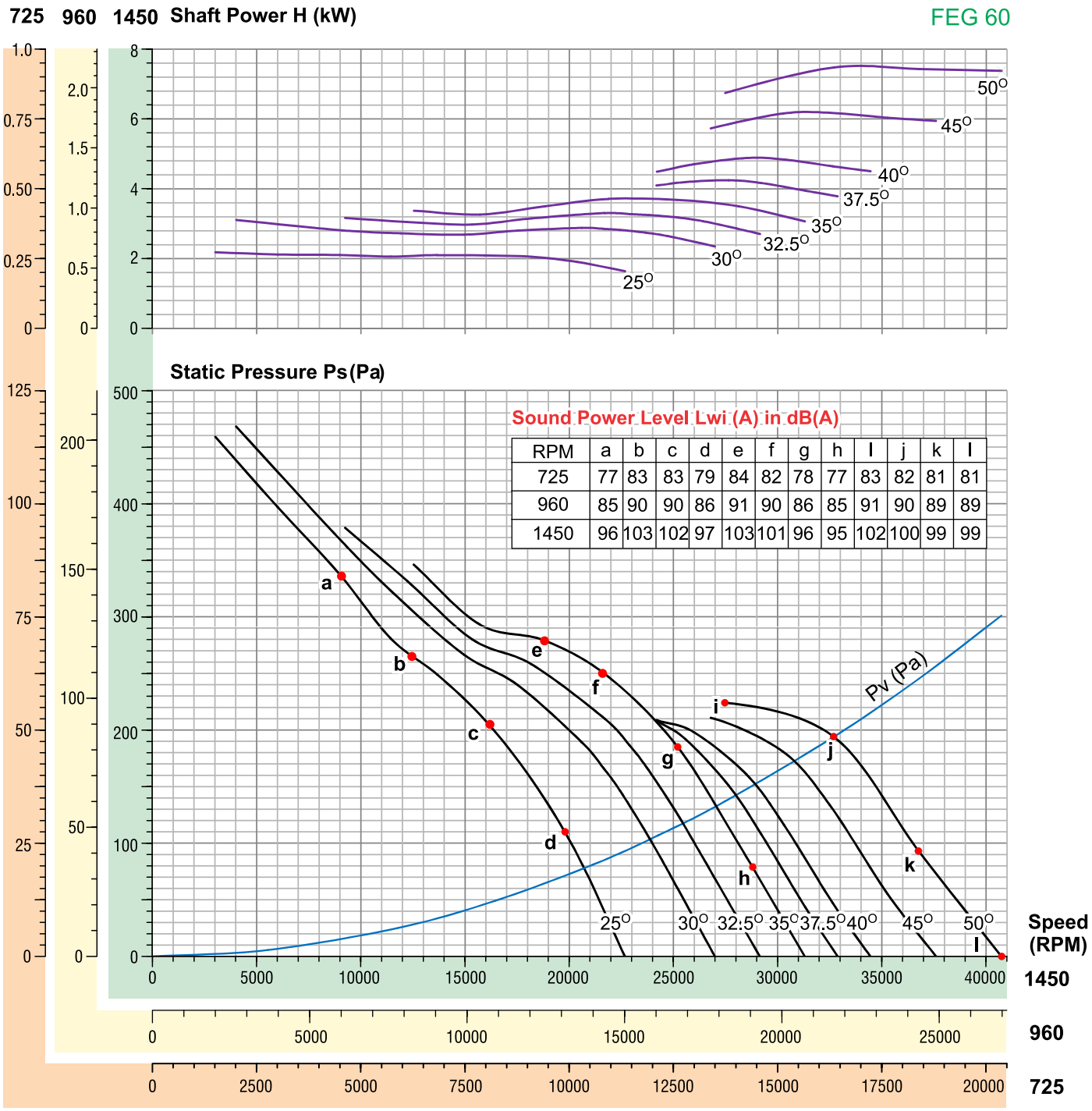



- Performance certified is for installation type D-Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwiA sound power levels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

BLOWTECH
we make air move
Axial Flow Fan

# DXL 800/6-12/50 Hz

Outlet Area = 0.5052 $m^2$, $\rho$ = 1.2kg/$m^3$ , Hub diameter = 280mm



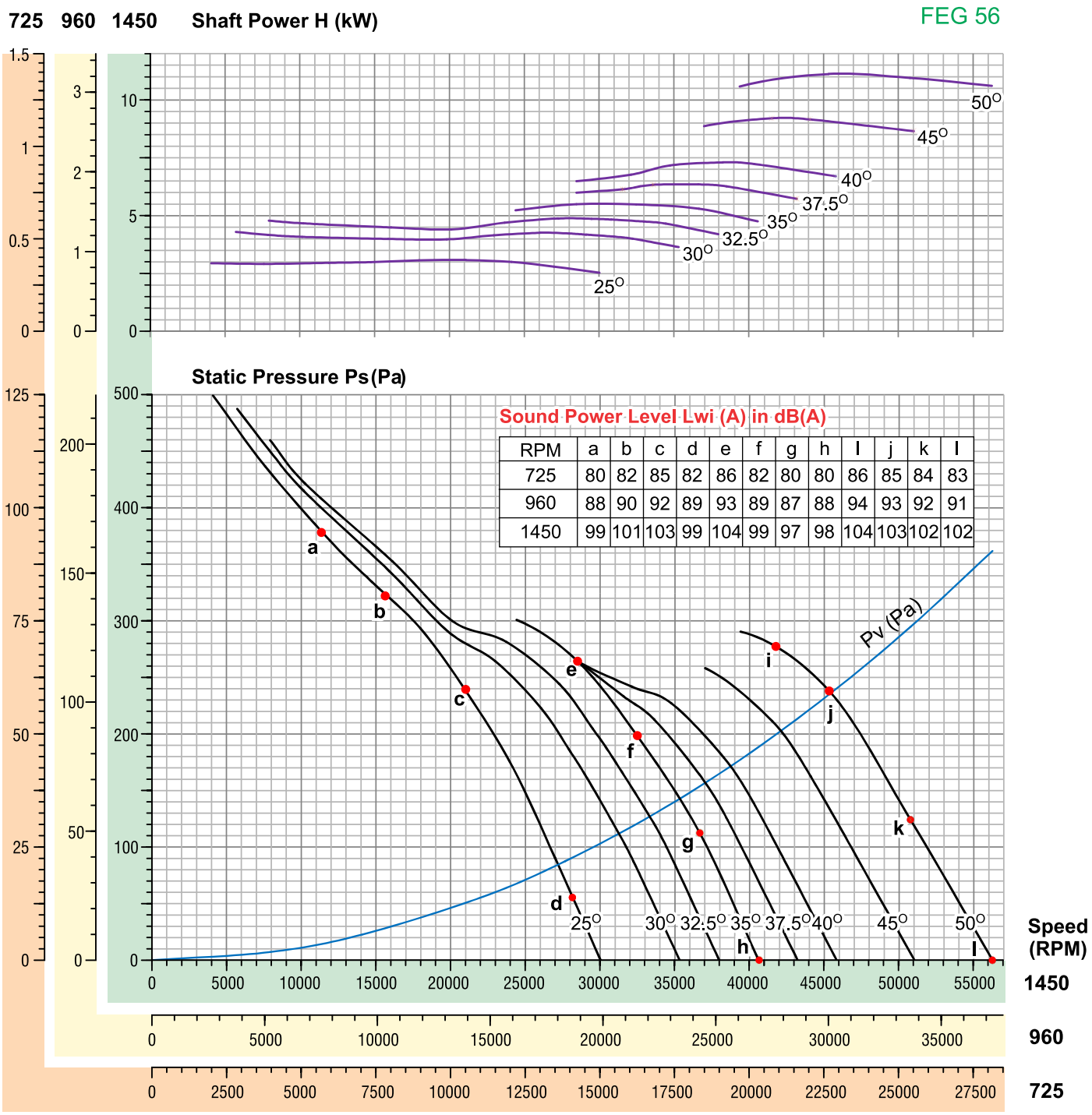

- Performance certified is for installation type D-Ducted inlet, Ducted outlet.
  Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwiA sound power levels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

BLOWTECH
we make air move
Axial Flow Fan

# DXL 900/6-12/50 Hz

Outlet Area = 0.6362 $m^2$, $\rho$ = 1.2kg/$m^3$ , Hub diameter = 280mm

FEG 56




Sound Power Level Lwi (A) in dB(A)

| RPM | a | b | c | d | e | f | g | h | I | j | k | l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 725 | 80 | 82 | 85 | 82 | 86 | 82 | 80 | 80 | 86 | 85 | 84 | 83 |
| 960 | 88 | 90 | 92 | 89 | 93 | 89 | 87 | 88 | 94 | 93 | 92 | 91 |
| 1450 | 99 | 101 | 103 | 99 | 104 | 99 | 97 | 98 | 104 | 103 | 102 | 102 |

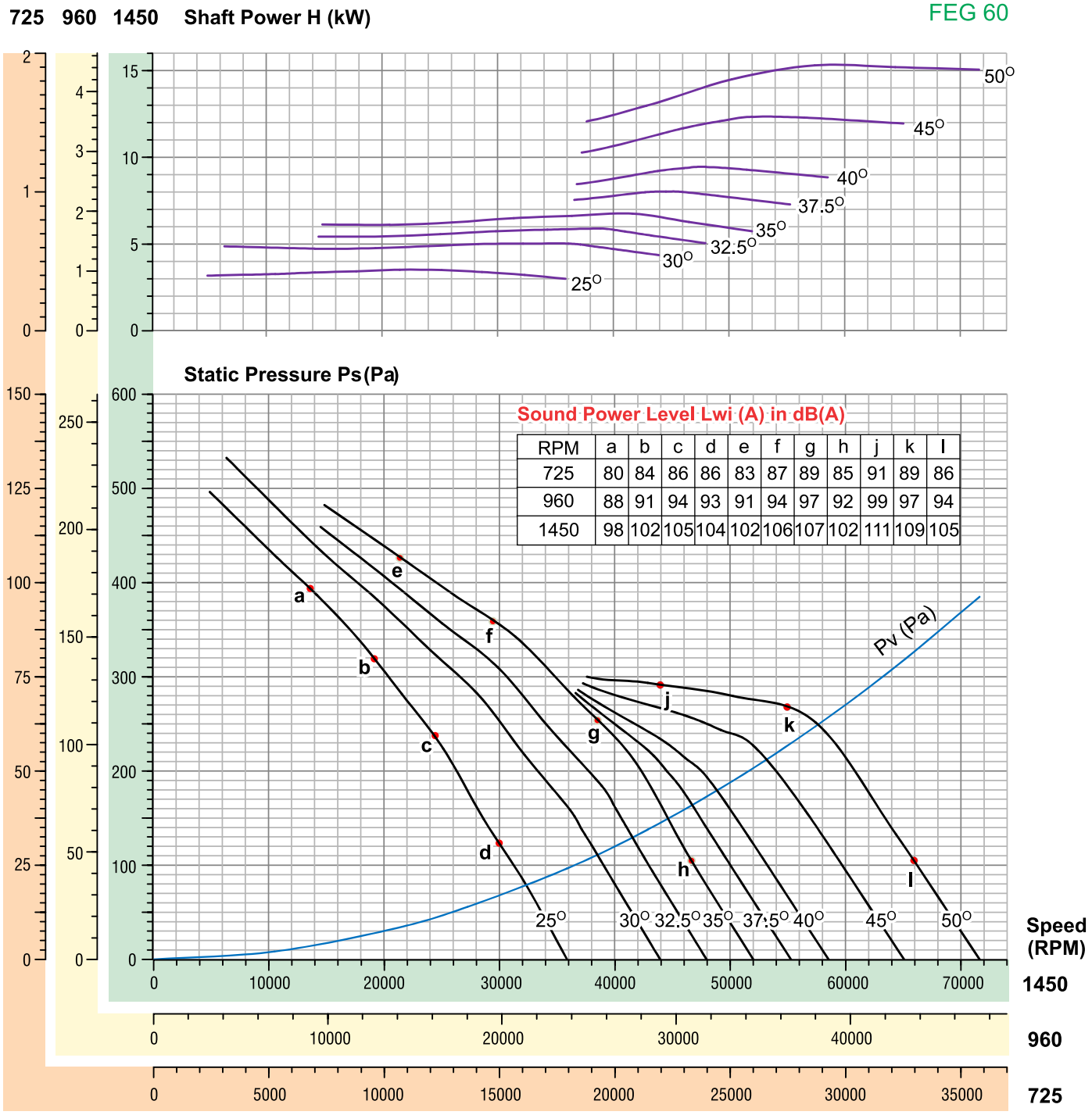
- Performance certified is for installation type D-Ducted inlet, Ducted outlet.
  Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwiA sound power levels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

BLOWTECH
we make air move
Axial Flow Fan

# DXL 1000/6-12/50 Hz

Outlet Area = 0.7854 $m^2$, $\rho$ = 1.2kg/$m^3$, Hub diameter = 280mm

FEG 60




Sound Power Level Lwi (A) in dB(A)

| RPM | a | b | c | d | e | f | g | h | j | k | l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 725 | 80 | 84 | 86 | 86 | 83 | 87 | 89 | 85 | 91 | 89 | 86 |
| 960 | 88 | 91 | 94 | 93 | 91 | 94 | 97 | 92 | 99 | 97 | 94 |
| 1450 | 98 | 102 | 105 | 104 | 102 | 106 | 107 | 102 | 111 | 109 | 105 |

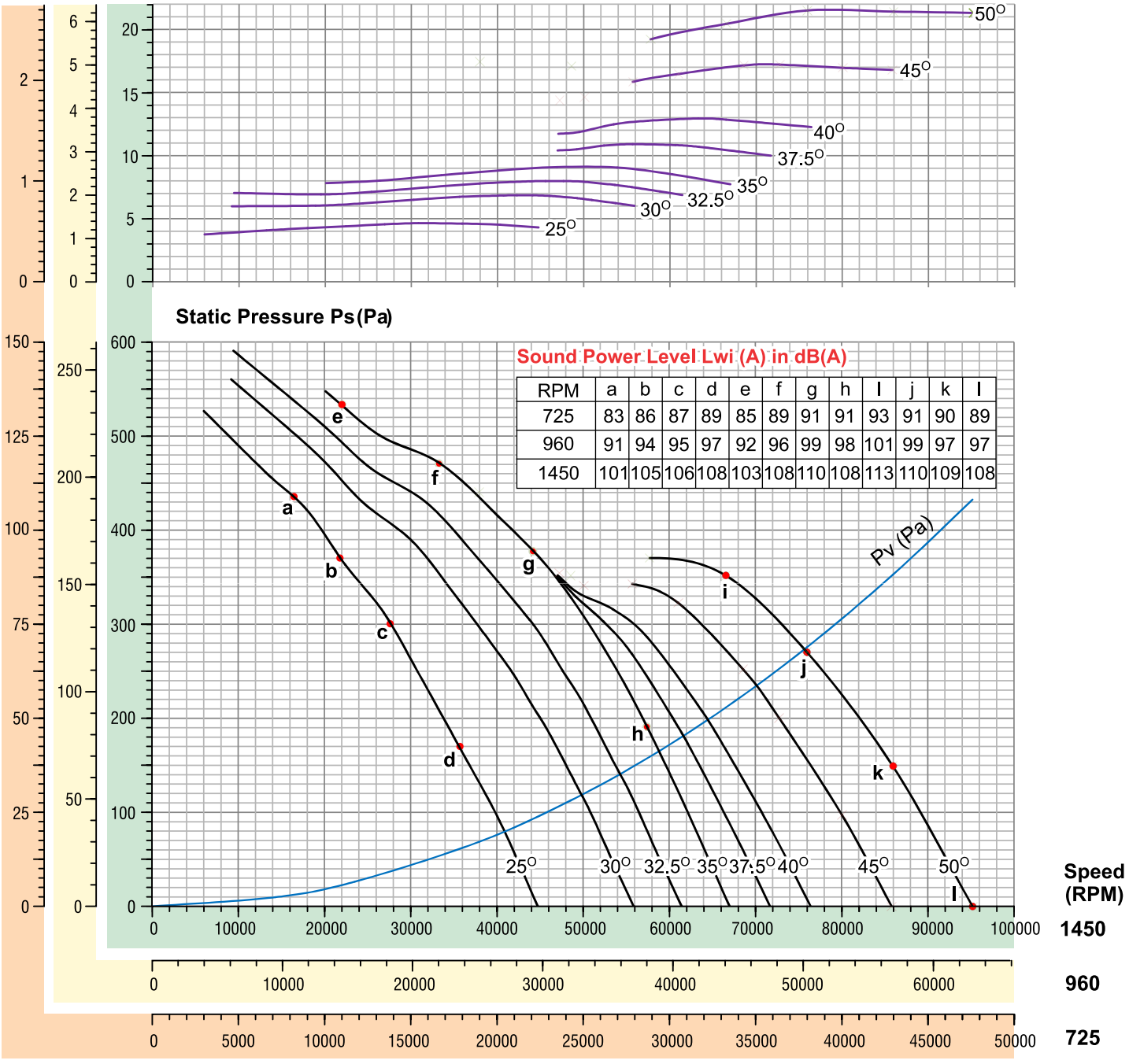
- Performance certified is for installation type D-Ducted inlet, Ducted outlet.
  Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwiA sound power levels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

BLOWTECH
we make air move
Axial Flow Fan

# DXL 1120/6-12/50 Hz

Outlet Area = 0.9852 $m^2$, $\rho$ = 1.2kg/$m^3$, Hub diameter = 280mm

FEG 67



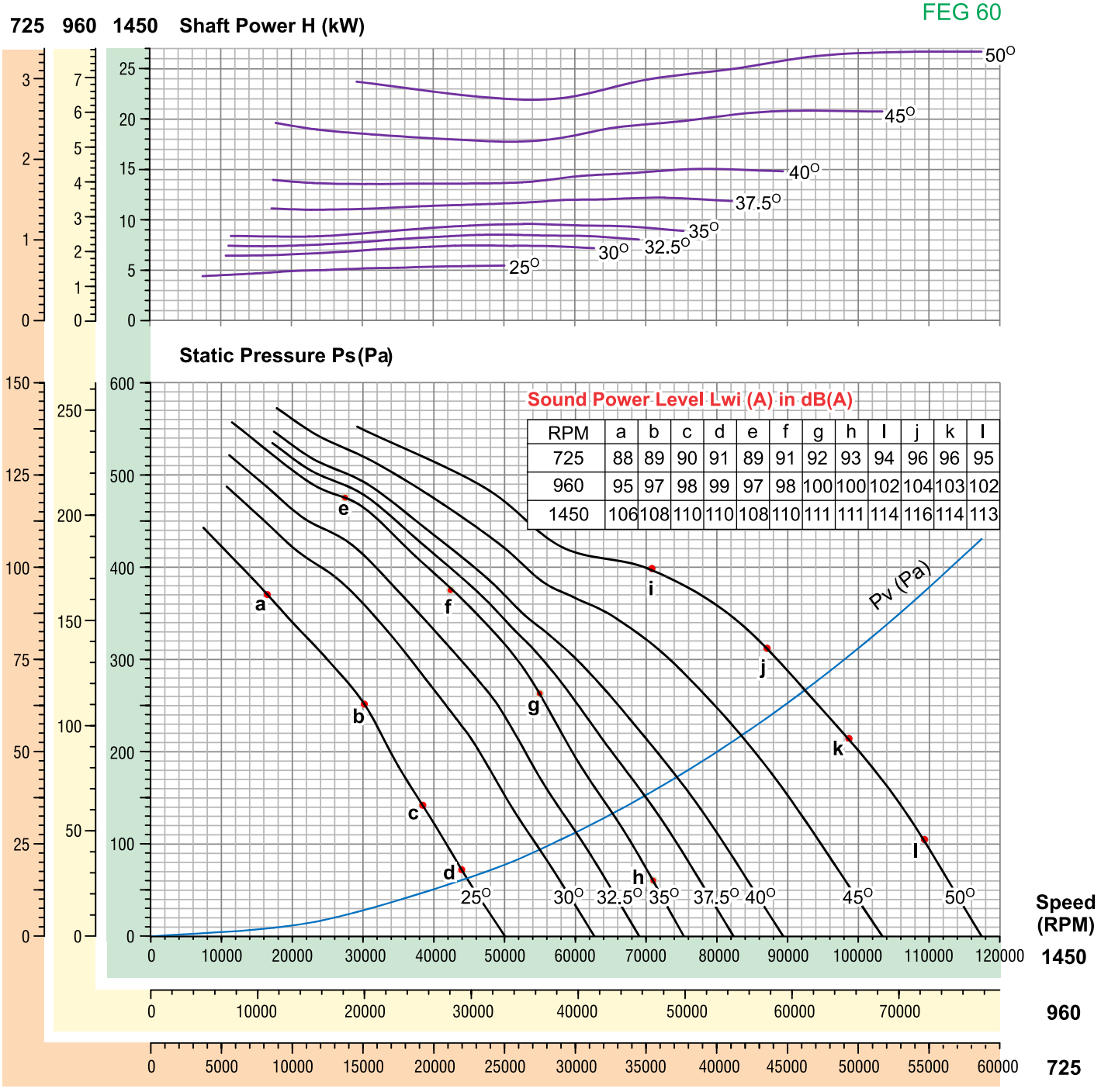

- Performance certified is for installation type D-Ducted inlet, Ducted outlet.
  Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwiA sound power levels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

BLOWTECH
we make air move
Axial Flow Fan

# DXL 1250/6-12/50 Hz

Outlet Area = 1.2174 $m^2$, $\rho$ = 1.2kg/$m^3$, Hub diameter = 280mm

FEG 60

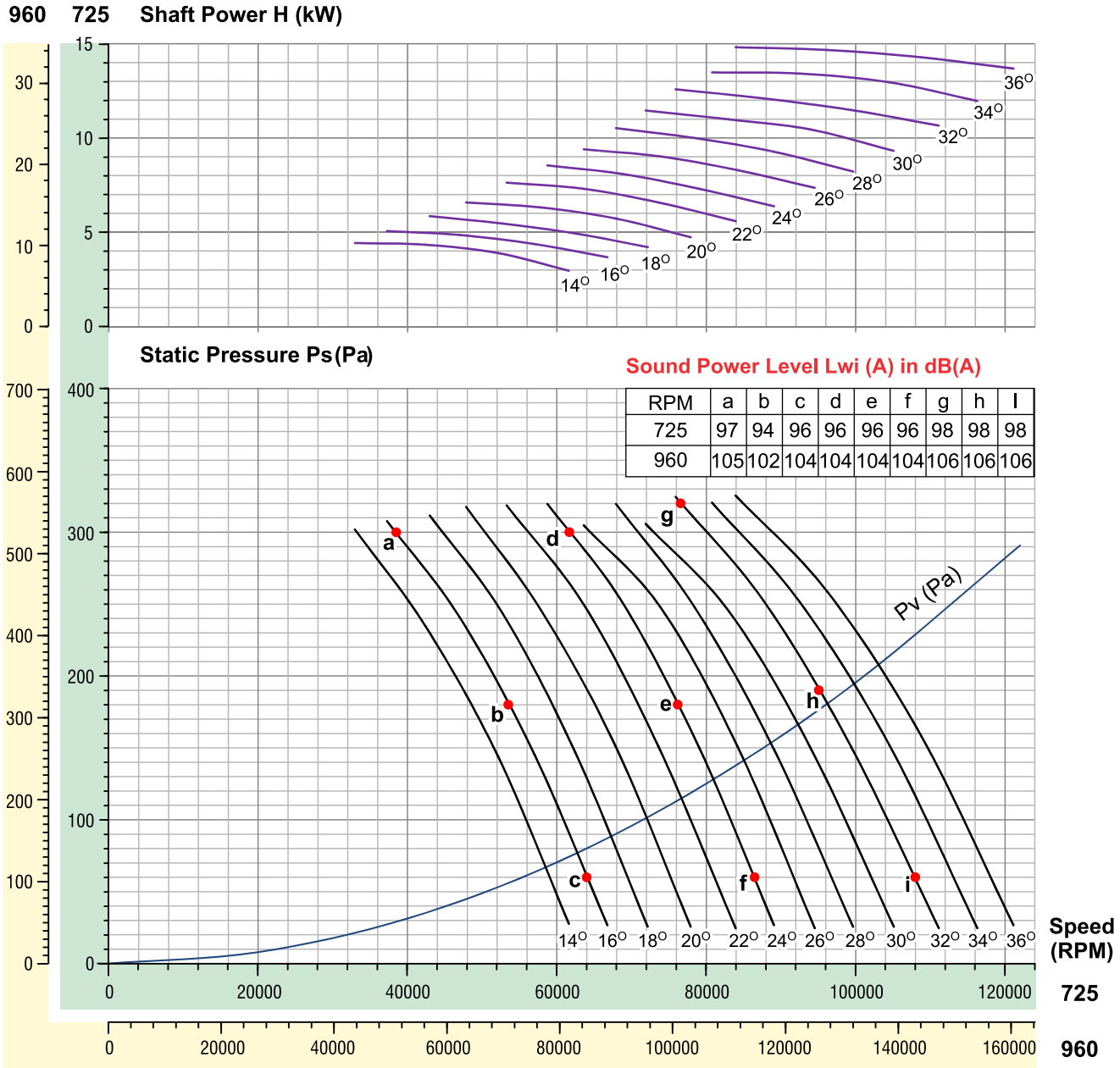



- Performance certified is for installation type D-Ducted inlet, Ducted outlet.
  Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwiA sound power levels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

BLOWTECH
we make air move
Axial Flow Fan

# DXL 1400/14-14/50 Hz

Outlet Area = 1.5394 $m^2$, $\rho$ = 1.2kg/$m^3$, Hub diameter = 350mm

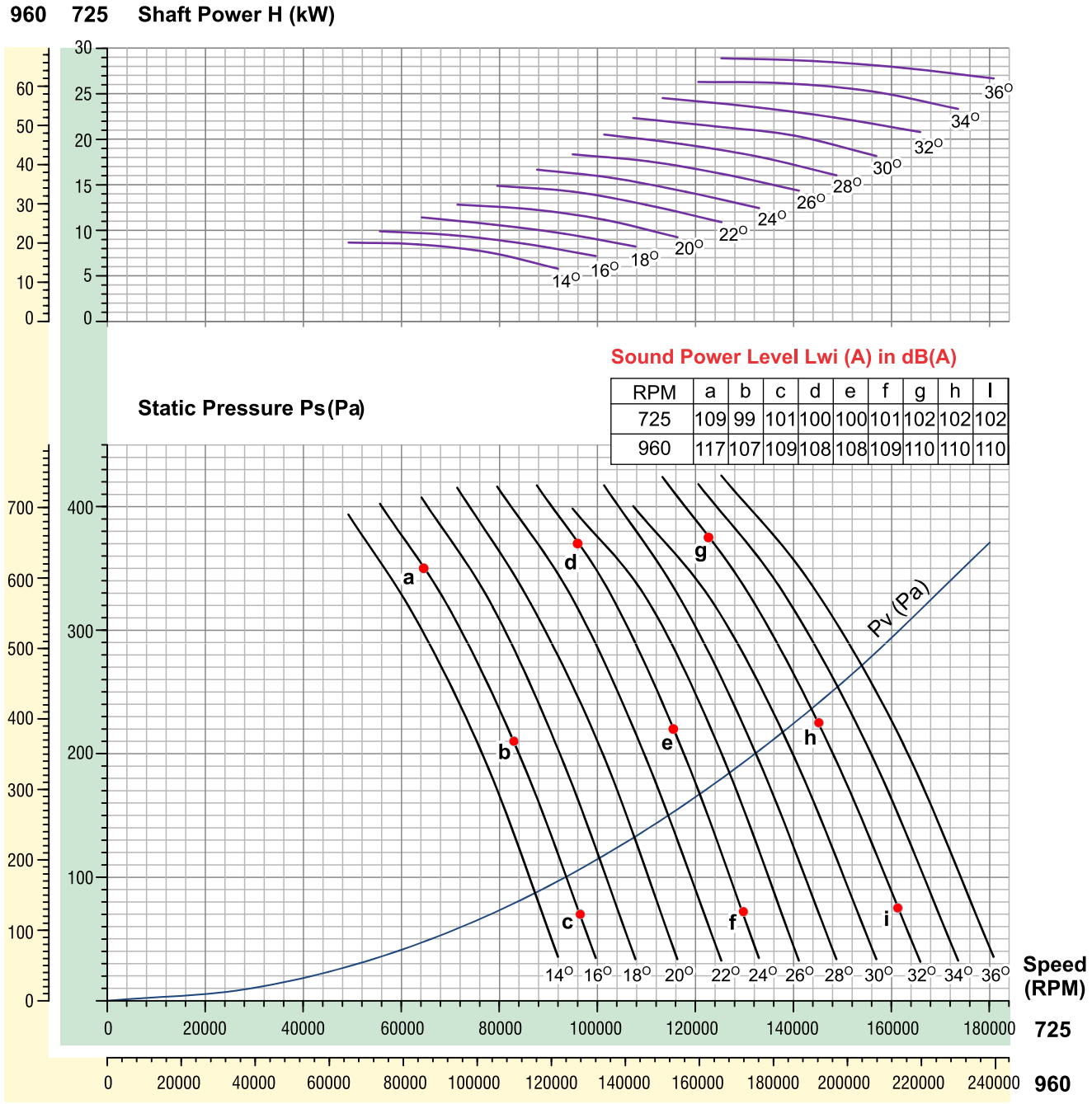



- Performance shown is for installation type D-Ducted inlet, Ducted outlet.
  Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwiA sound power levels for installation Type D-Ducted inlet, Ducted outlet.
- Model DXL1400 is not licensed to bear the AMCA Certified Ratings seal.

BLOWTECH
we make air move
Axial Flow Fan

# DXL1600/18-18/50Hz

Outlet Area = 2.0106 $m^2$, $\rho$ = 1.2kg/$m^3$, Hub diameter = 500mm




- Performance shown is for installation type D-Ducted inlet, Ducted outlet.
  Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwiA sound power levels for installation Type D-Ducted inlet, Ducted outlet.
- Model DXL1600 is not licensed to bear the AMCA Certified Ratings seal.

BLOWTECH
we make air move


## BLOWTECH AIR DEVICES PVT. LTD.

**(An ISO:9001-2008 certified company)**

A-15, Sector-65, Noida 201307 INDIA

Ph. : +91-120-4229300 Fax : +91-120-4229309

E-mail : info@blowtech.in web : www.blowtech.in



DXL V1.0 March 2016