

CRYSTAL

AIR SYSTEMS

Where air is life...



Direct Driven Tube Axial Flow Fans

CAS Series from 500 mm to 1400 mm dia

// CAS Areo Foil Tube Axial Fan - Description

Features

- 560 - 1400 mm diameter
- Volume upto 80000 cfm
- High energy efficiency fans
- IP55 Motors protection
- Low Noise levels

Impellers

- High pressure die cast Aluminum Alloy with smoothed hub and clamp plate for adjustable pitch Angle availability to achieve low noise & high efficiency



Casings

- Casings are spun form sheet steel with integral pre-drilled and reduced inlet flanges Continuously welded, heavy gauge, corrosion resistant with an option of enamel/epoxy/powder coated steel housing for its long life.

Motors

- All motors are totally enclosed air stream rated class "F" insulation. Single speed motors are suitable for speed control by voltage regulation where indicated. Three phase motors are suitable or use with Frequency invertors. High Temperature option can be provided for Smoke Exhaust application at different Motor Speed.

Performance

- Fans shall be factory tested, test ratings for air moving devices and shall be guaranteed by the manufacturer to deliver the submitted rated performance levels.

Factory Run Test

- All fans prior to shipment shall be completely assembled and test run as a unit at operating speed or maximum RPM allowed for the particular construction type. Each Impeller shall be statically and dynamically balanced. "Balance Quality and Vibration Levels for Fans"

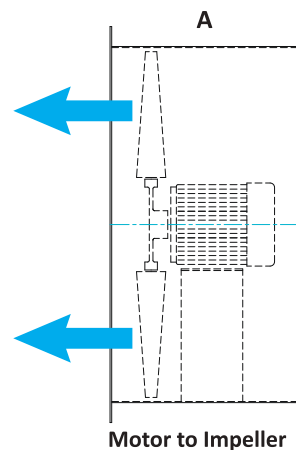
Guarantee

- The manufacturer shall guarantee the workmanship and materials for its Tube axial fans for at least one (1) year from startup or eighteen (18) months from shipment, whichever occurs first.

Accessories

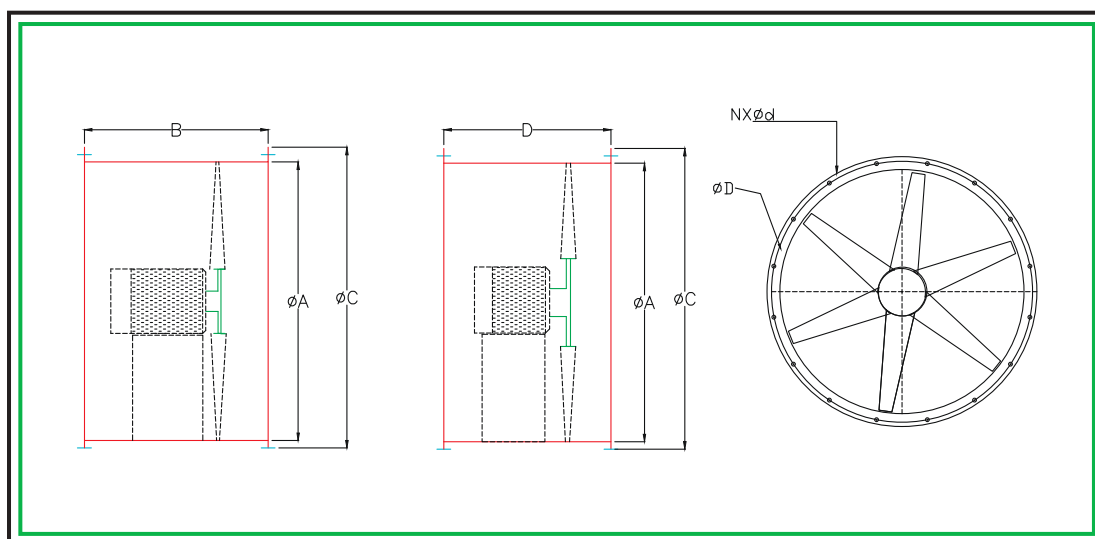
Wide range of accessories are available on request on additional cost - Bird screen, mounting feet, flexible connections, vibration isolators and silencer

CAS Series With Flow Configuration "A" is Certified by AMCA International



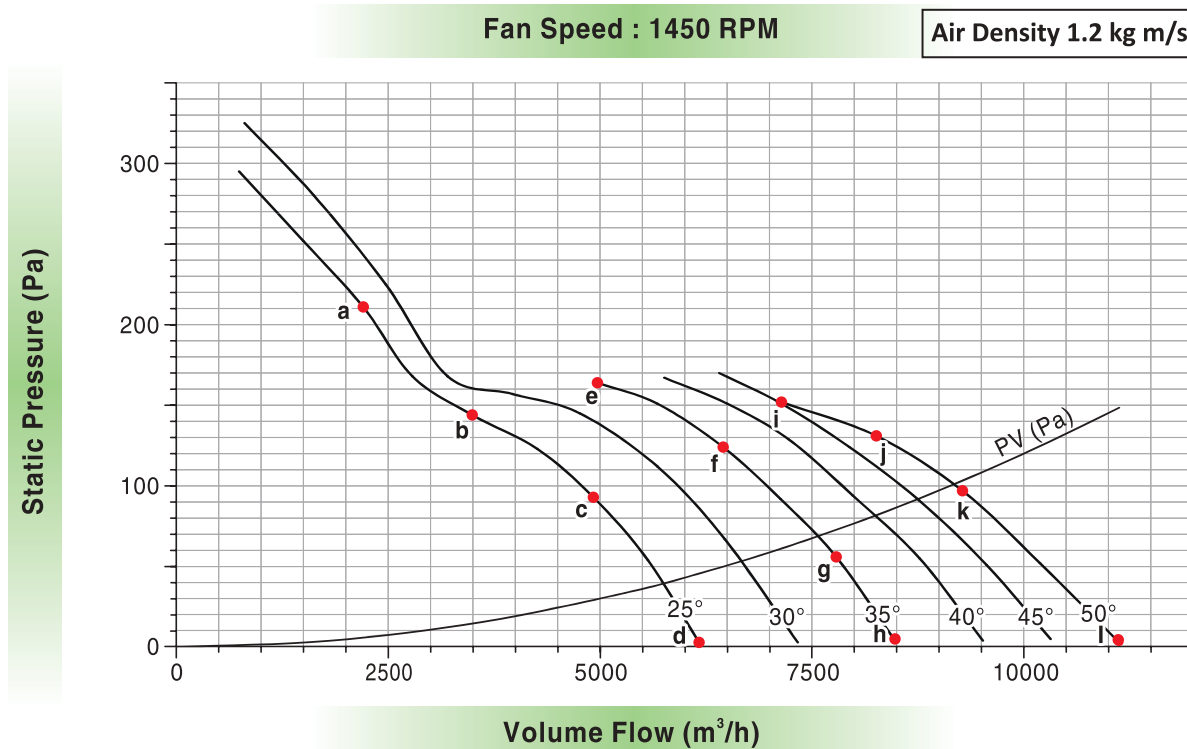
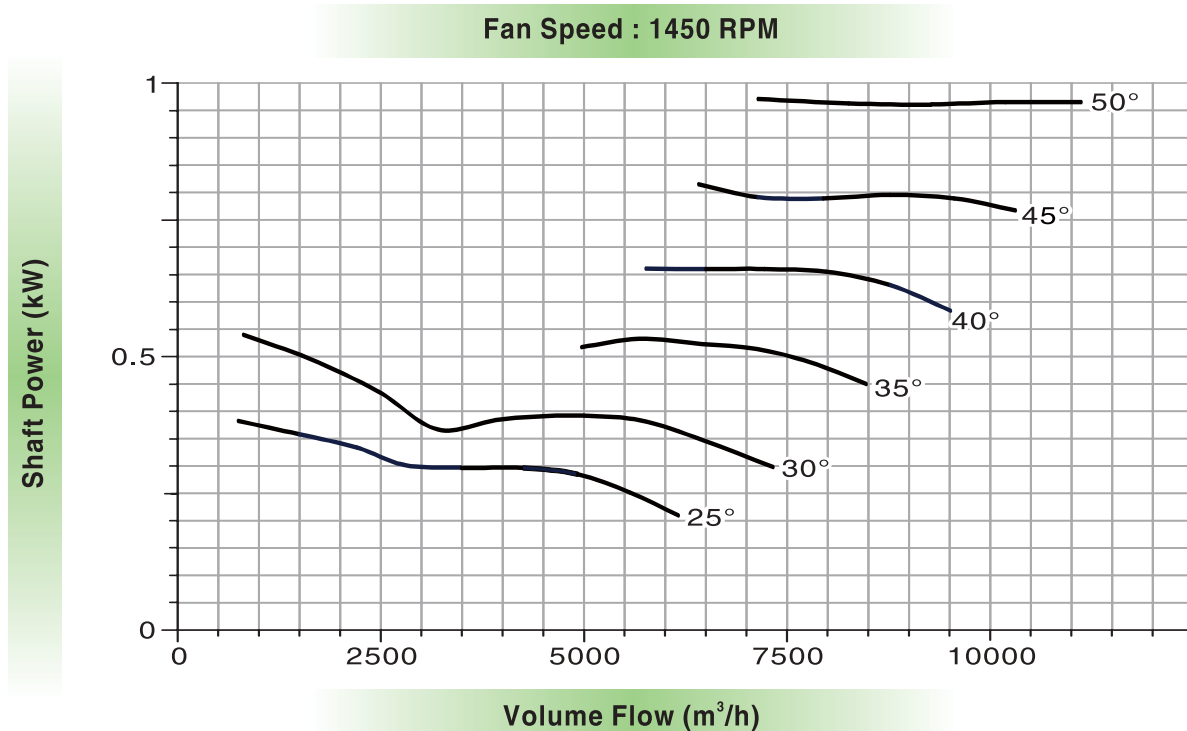
Dimensions :

Tube Axial Fan from 500 mm to 1400 mm dia.



MODEL	A	B	C	D	N X d
CAS 500	500	564	450	530	12 x 12
CAS 560	560	624	450	590	12 x 12
CAS 630	630	705	450	665	12 x 12
CAS 710	710	785	600	745	16 x 12
CAS 800	800	885	600	840	16 x 12
CAS 900	900	985	600	940	16 x 15
CAS 1000	1000	1085	800	1040	16 x 15
CAS 1120	1120	1205	900	1160	20 x 15
CAS 1250	1250	1335	900	1290	20 x 15
CAS 1400	1400	1505	1000	1450	20 x 15

All dimension are in mm



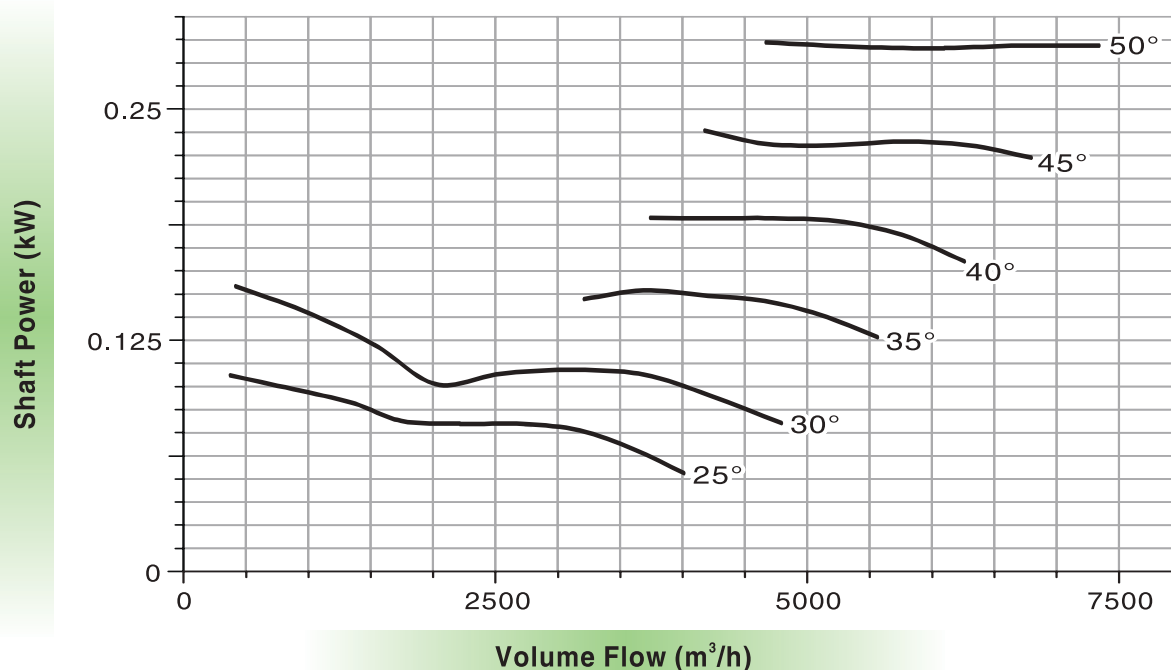
Sound Power Level L_{wi} (A) in dB(A)

RPM	a	b	c	d	e	f	g	h	i	j	k	l
1450	83	80	79	72	83	82	81	78	84	85	86	83

Note :

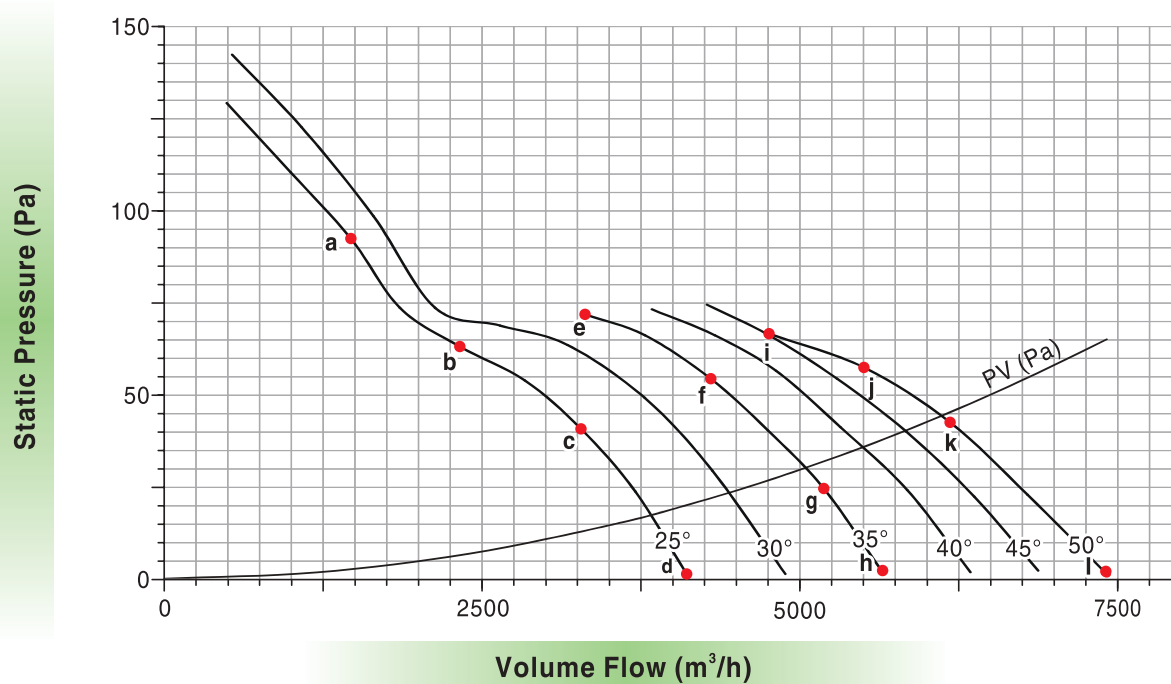
- Performance ratings do not include the effects of appurtenances (accessories).
- Values shown are for inlet L_{wi}A sound power levels for installation Type D-Ducted inlet, Ducted outlet.

Fan Speed : 960 RPM



Fan Speed : 960 RPM

Air Density 1.2 kg m/s

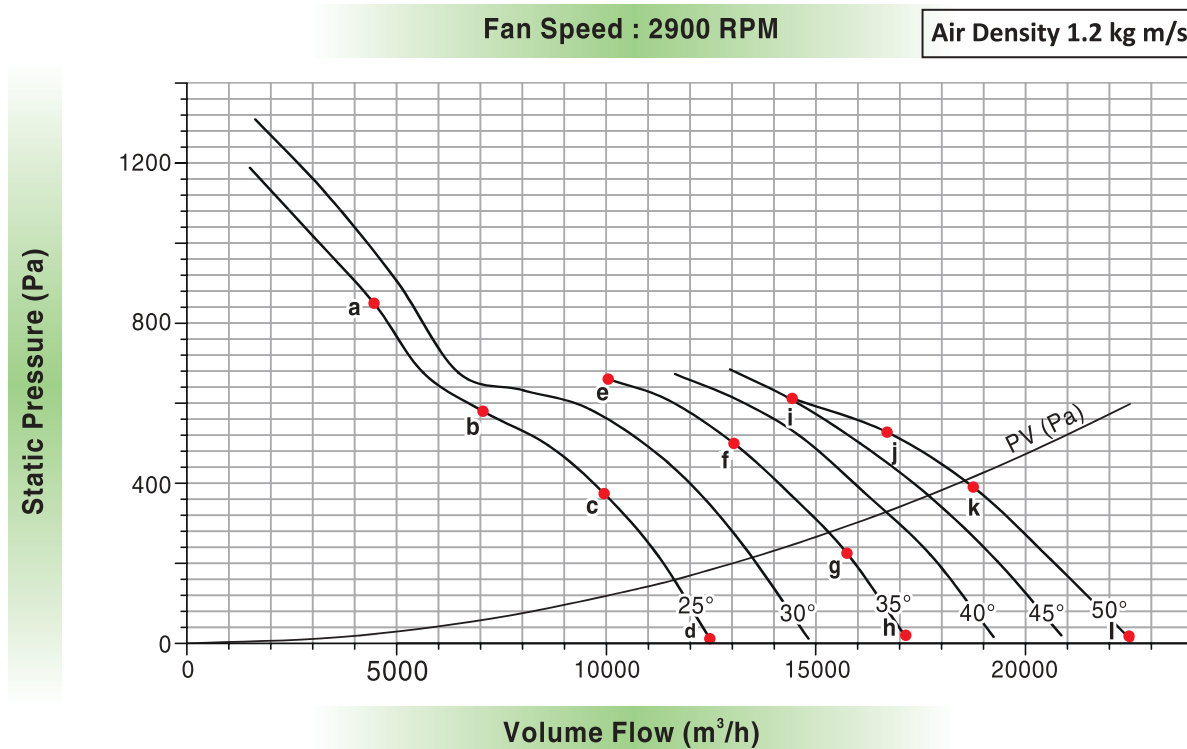
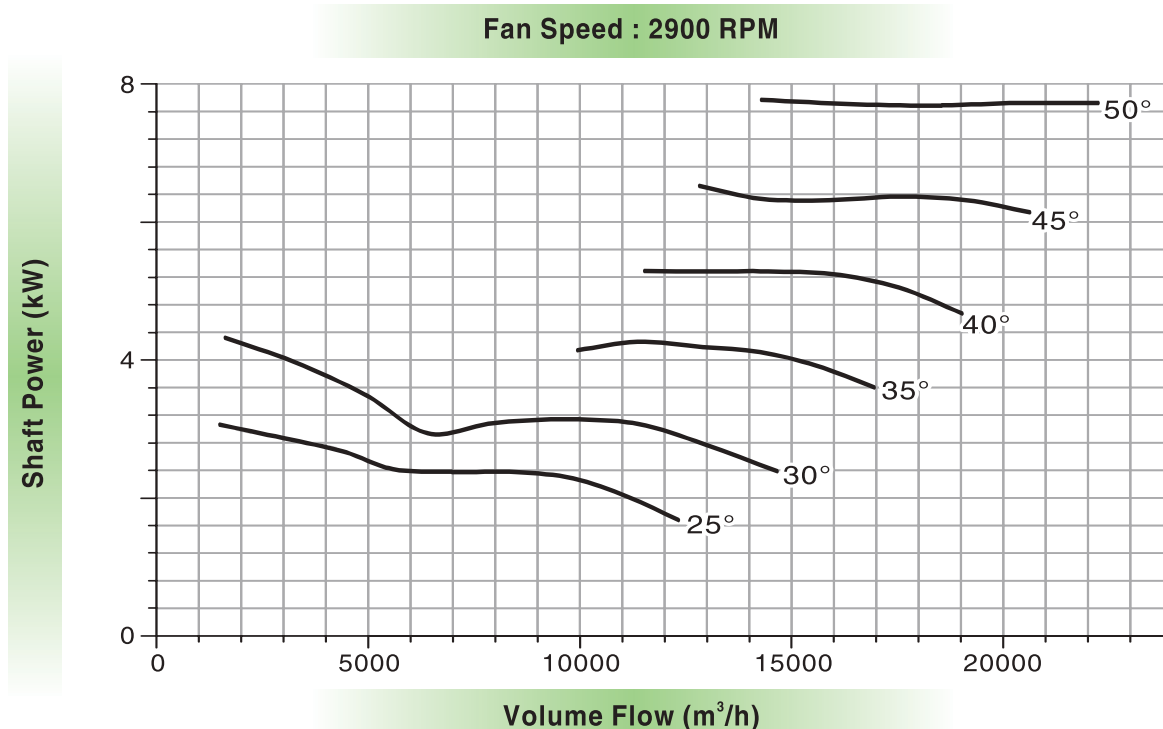


Sound Power Level Lwi (A) in dB(A)

RPM	a	b	c	d	e	f	g	h	i	j	k	l
960	71	72	68	61	72	73	69	67	73	74	75	76

Note :

- Performance ratings do not include the effects of appurtenances (accessories).
- Values shown are for inlet LwiA sound power levels for installation Type D-Ducted inlet, Ducted outlet.



Sound Power Level L_{wi} (A) in dB(A)

RPM	a	b	c	d	e	f	g	h	i	j	k	l
2900	100	99	97	100	101	105	98	96	102	103	105	101

Note :

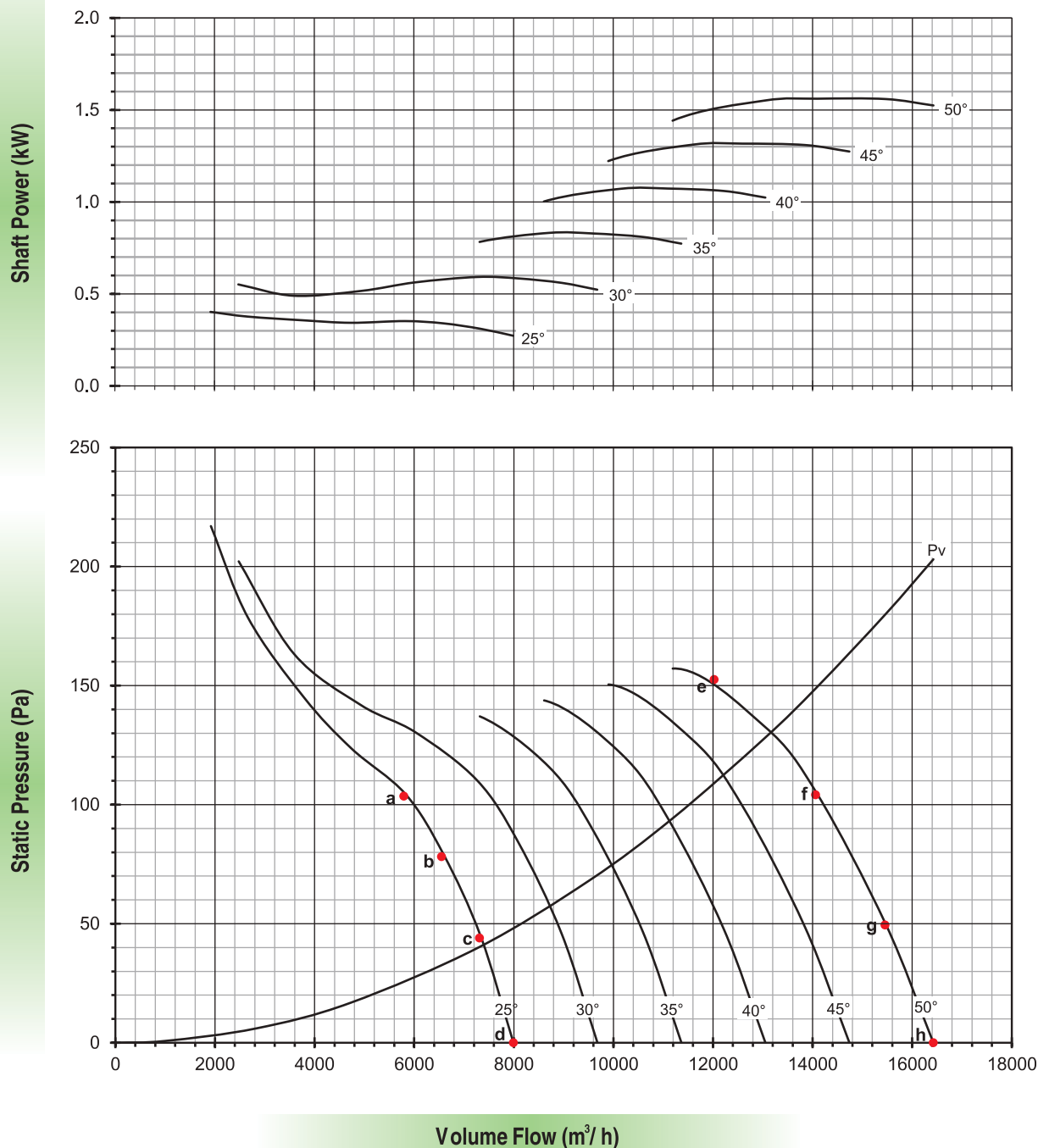
- Performance ratings do not include the effects of appurtenances (accessories).
- Values shown are for inlet L_{wi}A sound power levels for installation Type D-Ducted inlet, Ducted outlet.

CAS 560/150/5-5/4

560 mm 1450 rev/min 50 hz

Air Density $\rho=1.2 \text{ kg/m}^3$

Fan Speed 1450 RPM



Volume Flow (m^3/h)

Sound Power Level $L_{wi}(A)$ in dB

RPM	a	b	c	d	e	f	g	h
1450	89	88	86	86	87	87	87	88

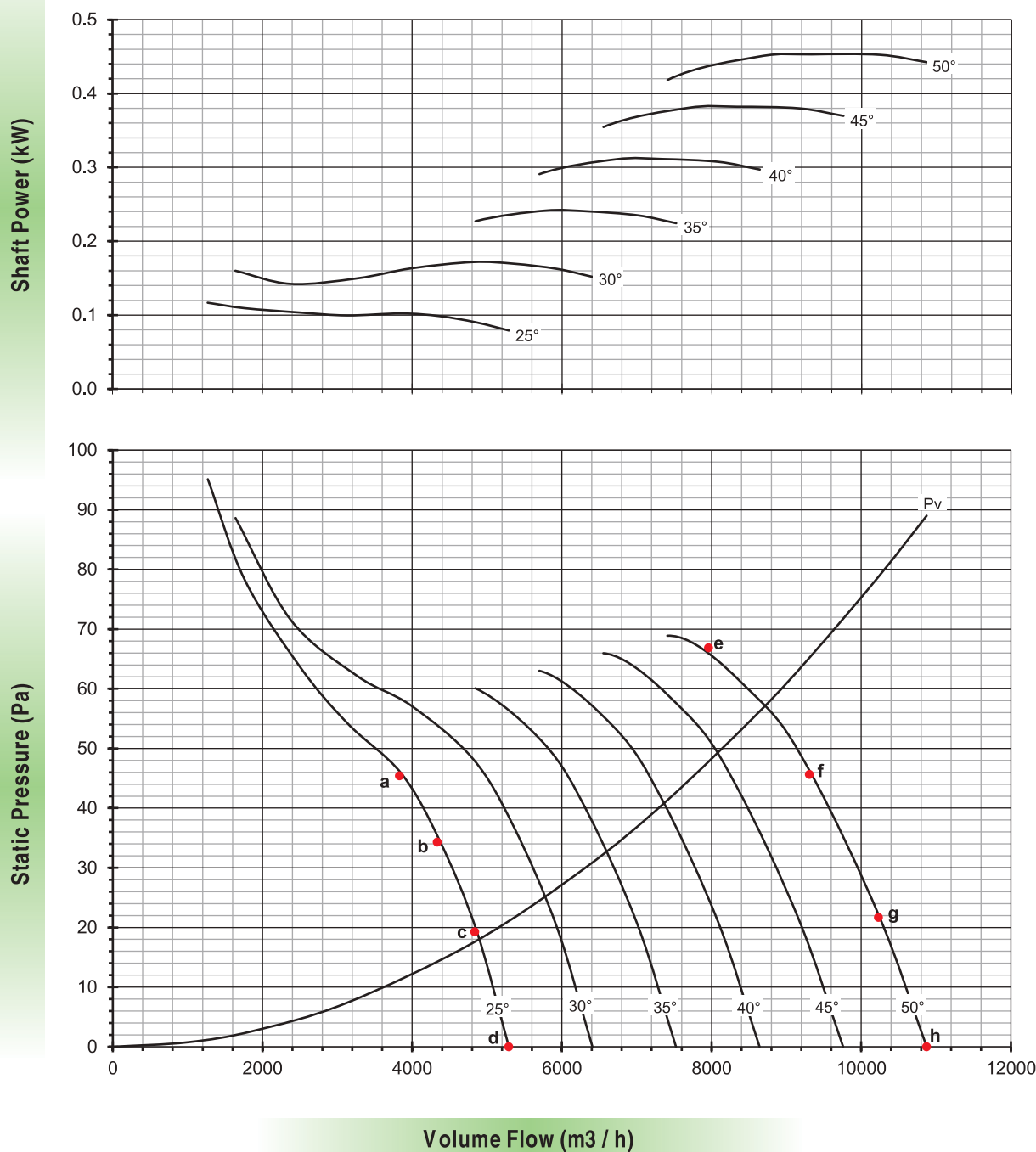
Note :

- 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 $L_{wi}A$ sound power levels for installation type D: ducted inlet, ducted outlet.
- Ratings include the effects of duct end correction.



Air Density $\rho=1.2 \text{ kg/m}^3$

Fan Speed 960 RPM



Volume Flow (m^3/h)

Sound Power Level $L_{wi}(A)$ in dB

RPM	a	b	c	d	e	f	g	h
960	77	76	74	75	76	76	76	76

Note :

- 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 $L_{wi}A$ sound power levels for installation type D: ducted inlet, ducted outlet.
- Ratings include the effects of duct end correction.

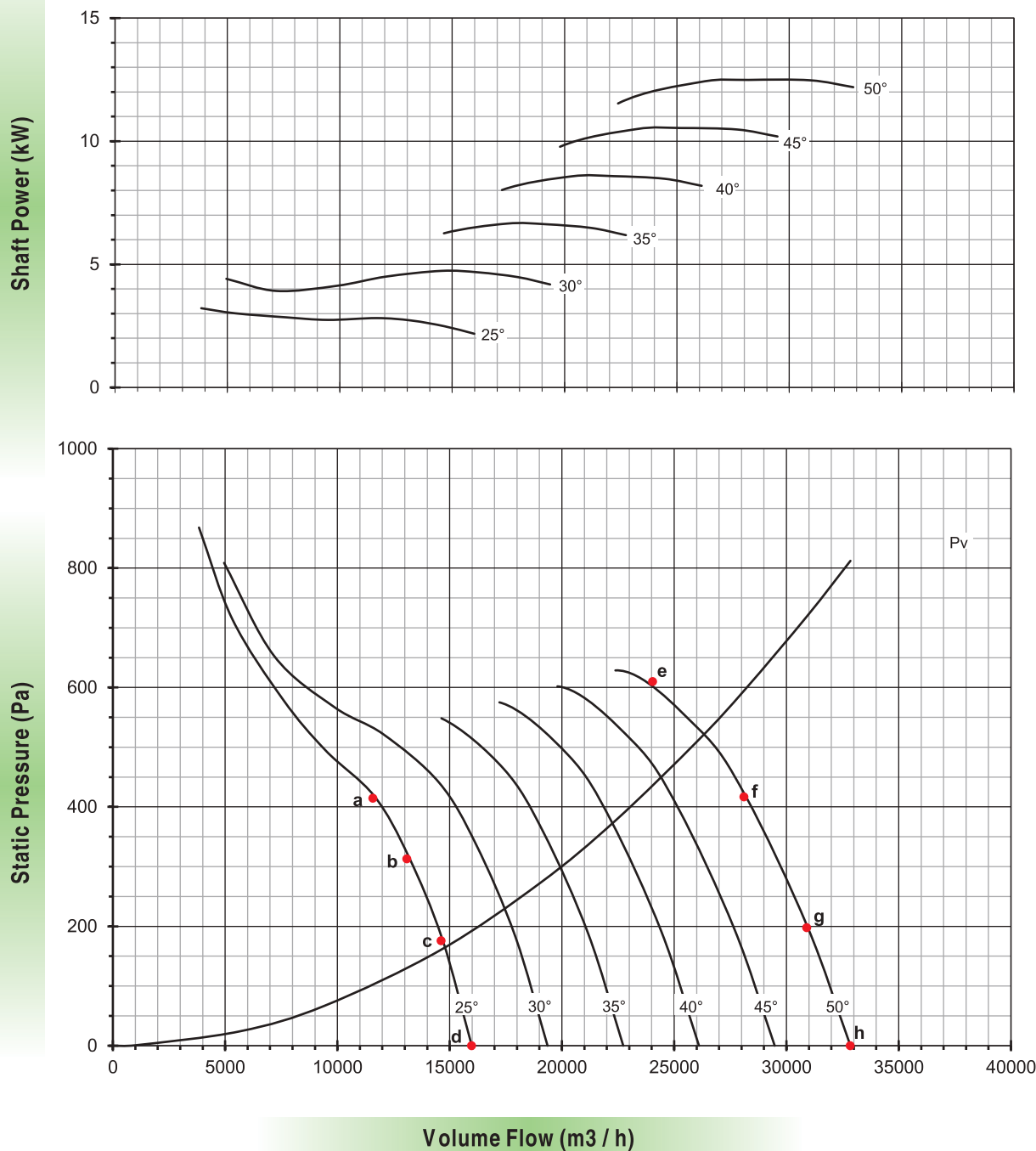


CAS 560/150/5-5/2

560 mm 2900 rev/min 50 hz

Air Density $\rho=1.2 \text{ kg/m}^3$

Fan Speed 2900 RPM



Sound Power Level $L_{wi}(A)$ in dB

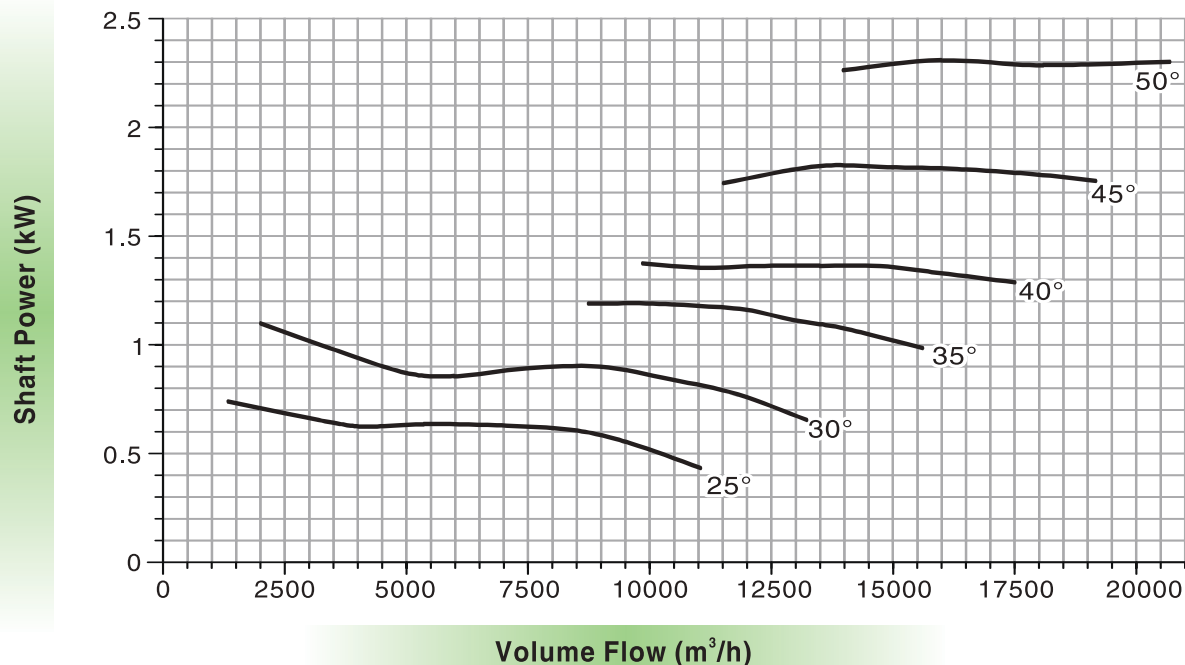
RPM	a	b	c	d	e	f	g	h
2900	108	107	106	105	107	105	105	106

Note :

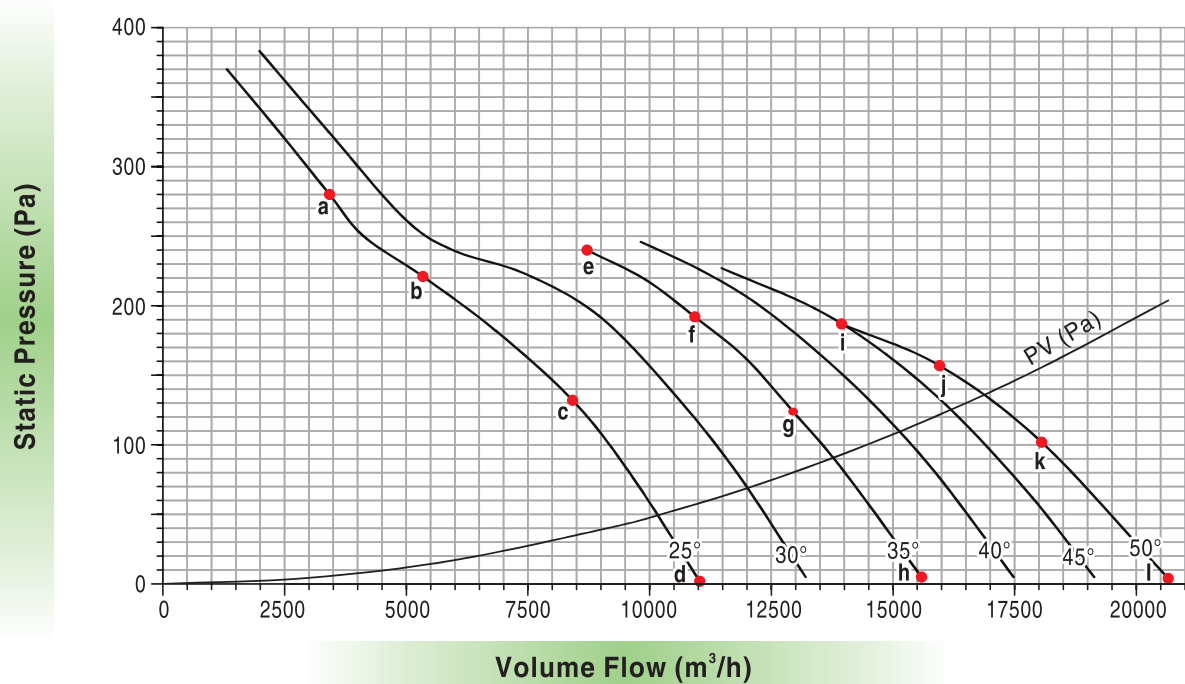
- Performance certified is for installation type D - Ducted inlet, Ducted outlet.
- Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- Values shown are for inlet $L_{wi}A$ sound power levels for installation type D: ducted inlet, ducted outlet.
- Ratings include the effects of duct end correction.



Fan Speed : 1450 RPM



Fan Speed : 1450 RPM



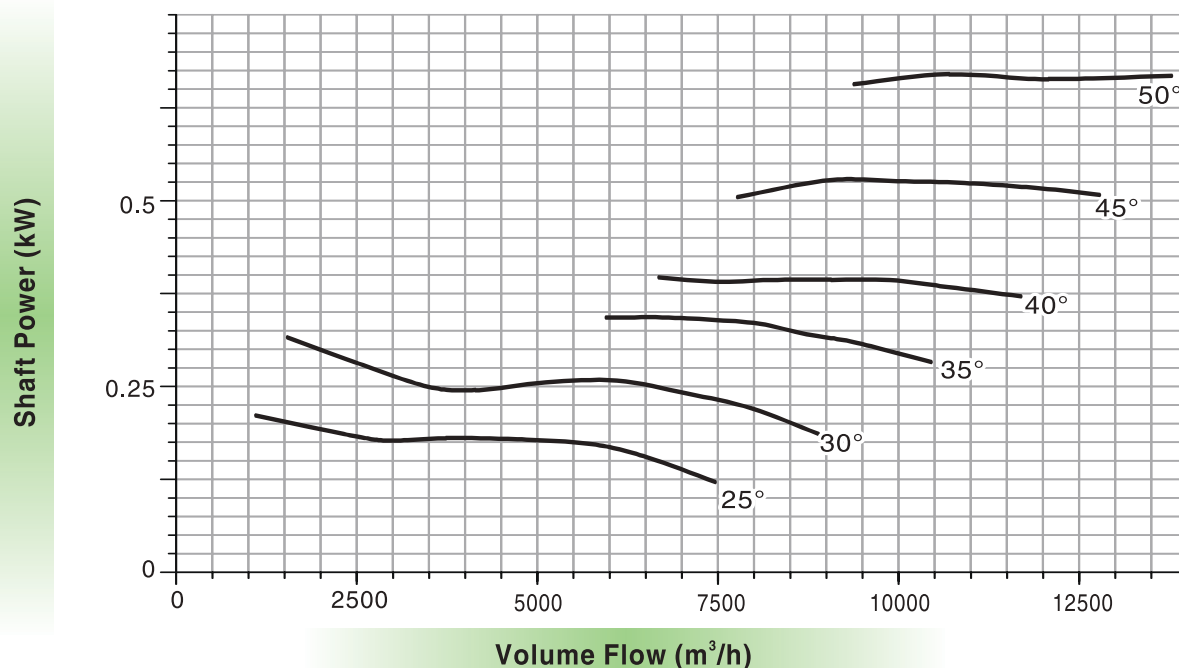
Sound Power Level Lwi (A) in dB(A)

RPM	a	b	c	d	e	f	g	h	i	j	k	l
1450	85	86	83	75	87	88	86	83	89	90	91	92

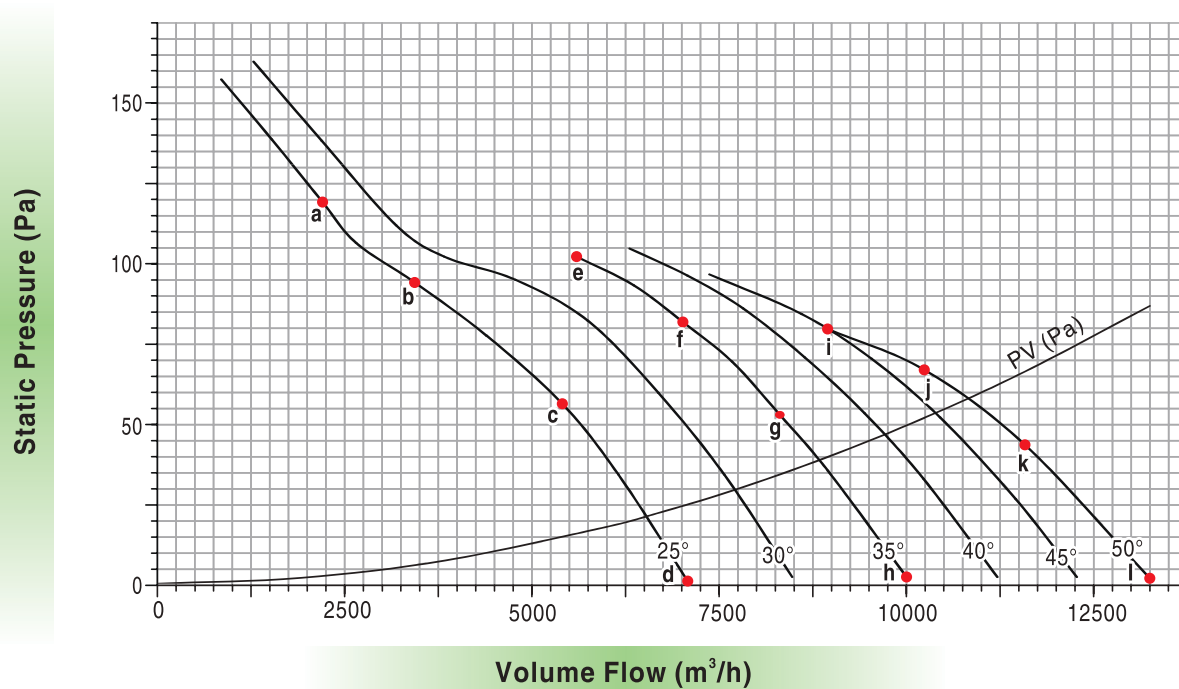
Note :

- Performance ratings do not include the effects of appurtenances (accessories).
- Values shown are for inlet LwiA sound power levels for installation Type D-Ducted inlet, Ducted outlet.

Fan Speed : 960 RPM



Fan Speed : 960 RPM



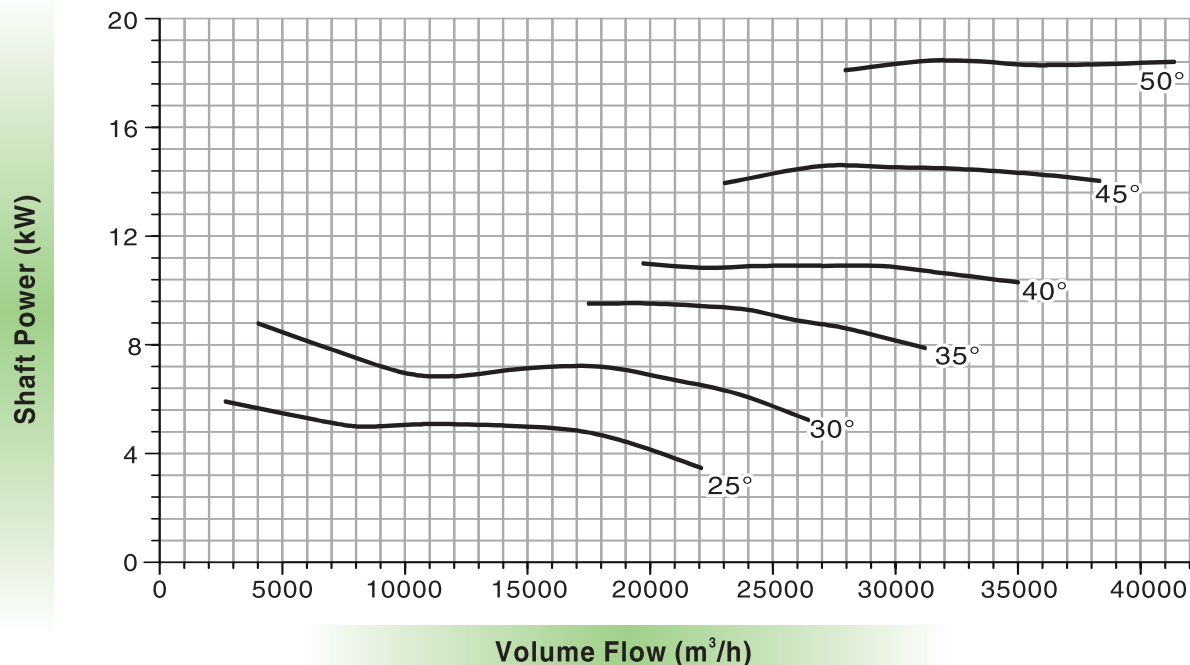
Sound Power Level Lwi (A) in dB(A)

RPM	a	b	c	d	e	f	g	h	i	j	k	l
960	74	75	76	64	76	76	78	72	78	79	80	77

Note :

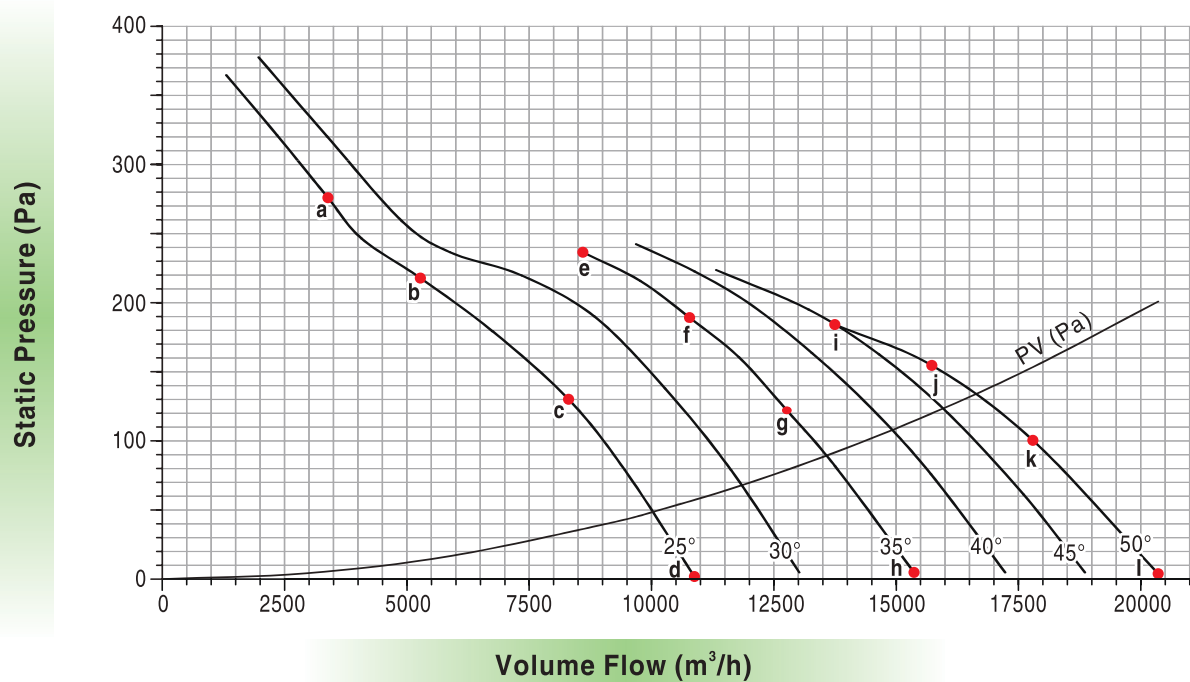
- Performance ratings do not include the effects of appurtenances (accessories).
- Values shown are for inlet LwiA sound power levels for installation Type D-Ducted inlet, Ducted outlet.

Fan Speed : 2900 RPM



Fan Speed : 2900 RPM

Air Density 1.2 kg m/s



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

RPM	a	b	c	d	e	f	g	h	i	j	k	l
2900	100	102	101	93	105	106	104	101	103	108	107	105

Note :

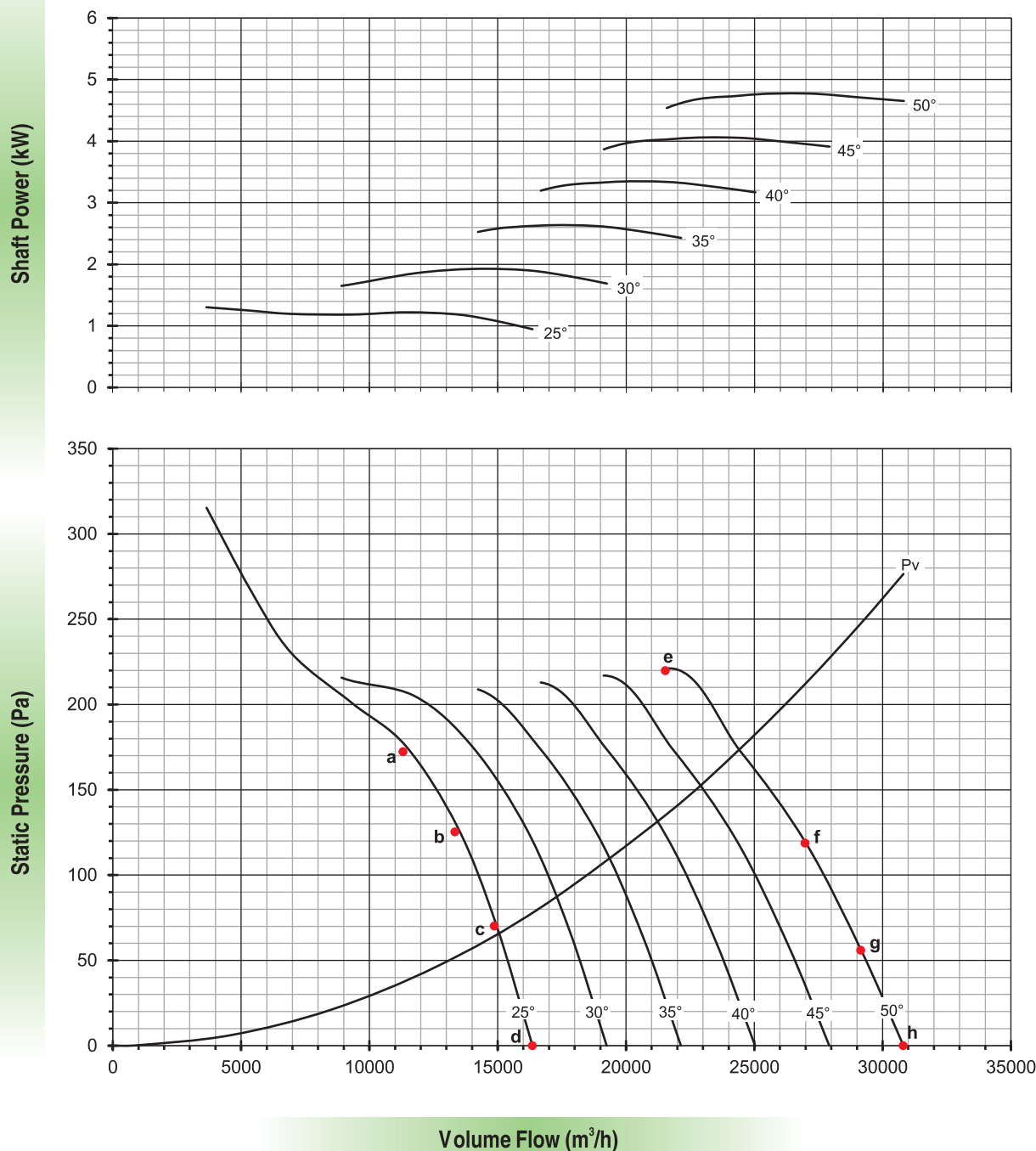
- Performance ratings do not include the effects of appurtenances (accessories).
- Values shown are for inlet LwiA sound power levels for installation Type D-Ducted inlet, Ducted outlet.

CAS 710/280/6-12/4

710 mm 1450 rev/min 50 hz

Air Density $\rho=1.2 \text{ kg/m}^3$

Fan Speed 1450 RPM



Volume Flow (m^3/h)

Sound Power Level $L_{wi}(A)$ in dB

RPM	a	b	c	d	e	f	g	h
1450	96	92	91	91	95	94	95	95

Note :

- 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 $L_{wi}A$ sound power levels for installation type D: ducted inlet, ducted outlet.
- Ratings include the effects of duct end correction.

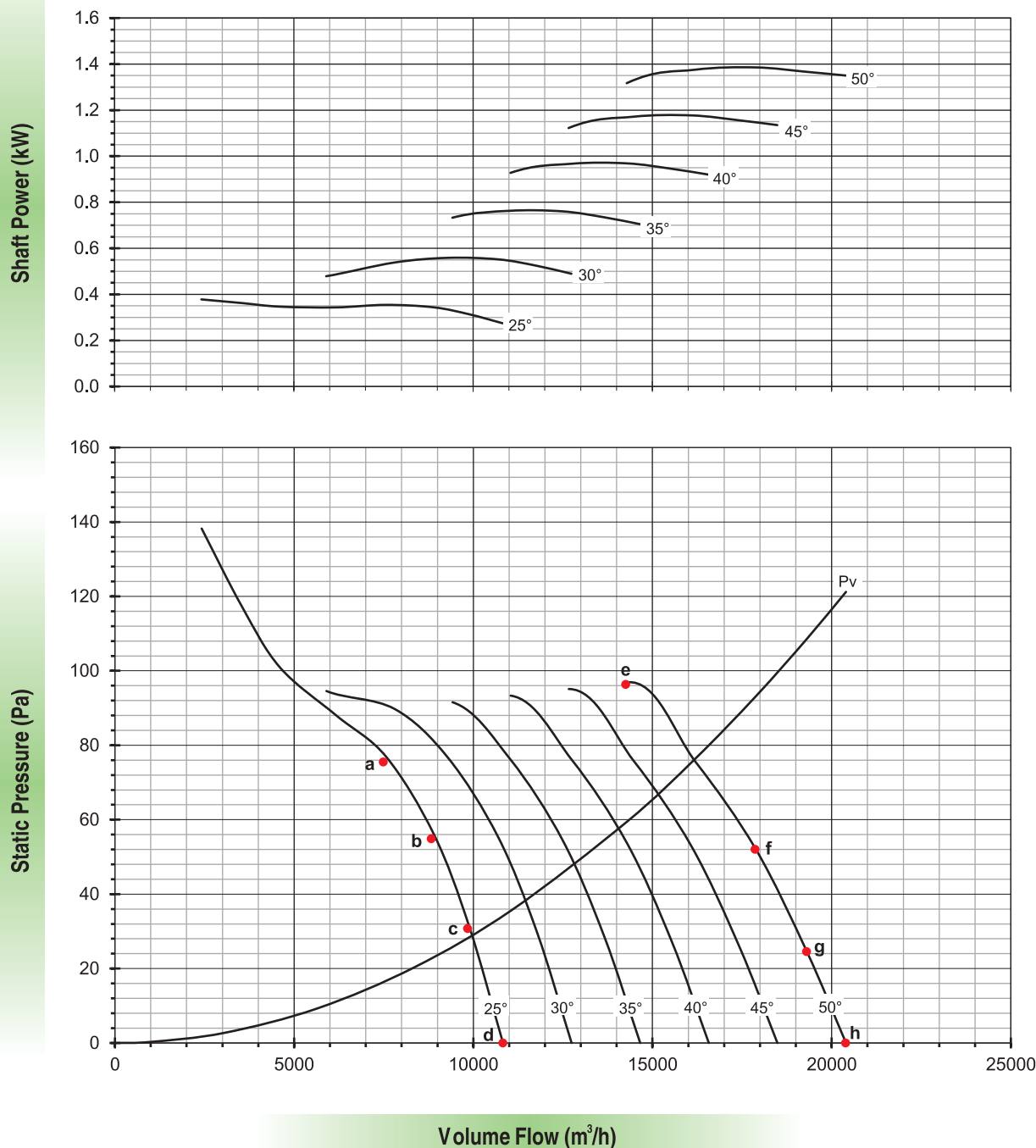


CAS 710/280/6-12/6

710 mm 960 rev/min 50 hz

Air Density $\rho=1.2 \text{ kg/m}^3$

Fan Speed 960 RPM



Sound Power Level $L_{wi}(A)$ in dB

RPM	a	b	c	d	e	f	g	h
960	85	81	80	80	85	84	84	84

Note :

- 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 $L_{wi}A$ sound power levels for installation type D: ducted inlet, ducted outlet.
- Ratings include the effects of duct end correction.

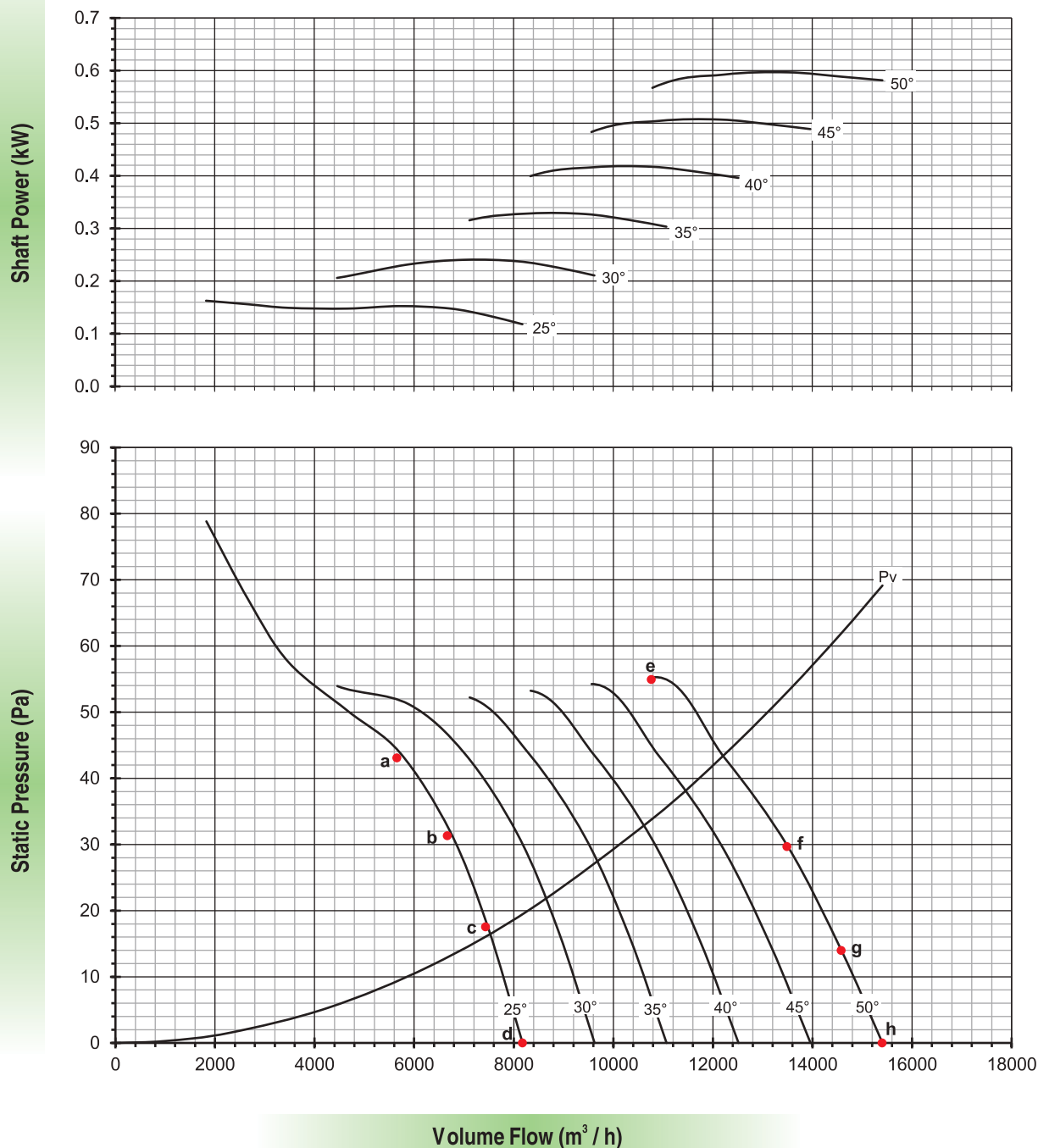


CAS 710/280/6-12/8

710 mm 725 rev/min 50 hz

Air Density $\rho=1.2 \text{ kg/m}^3$

Fan Speed 725 RPM



Volume Flow (m^3/h)

Sound Power Level $L_{wi}(A)$ in dB

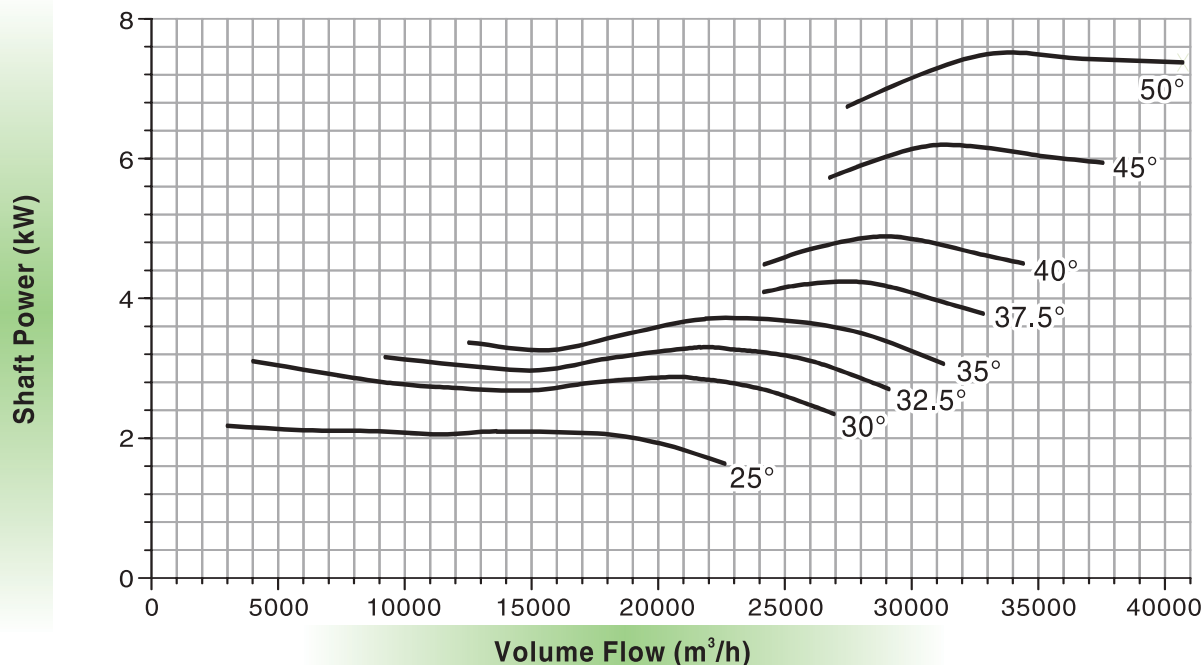
RPM	a	b	c	d	e	f	g	h
725	78	74	73	73	77	76	77	77

Note :

- 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 $L_{wi}A$ sound power levels for installation type D: ducted inlet, ducted outlet.
- Ratings include the effects of duct end correction.

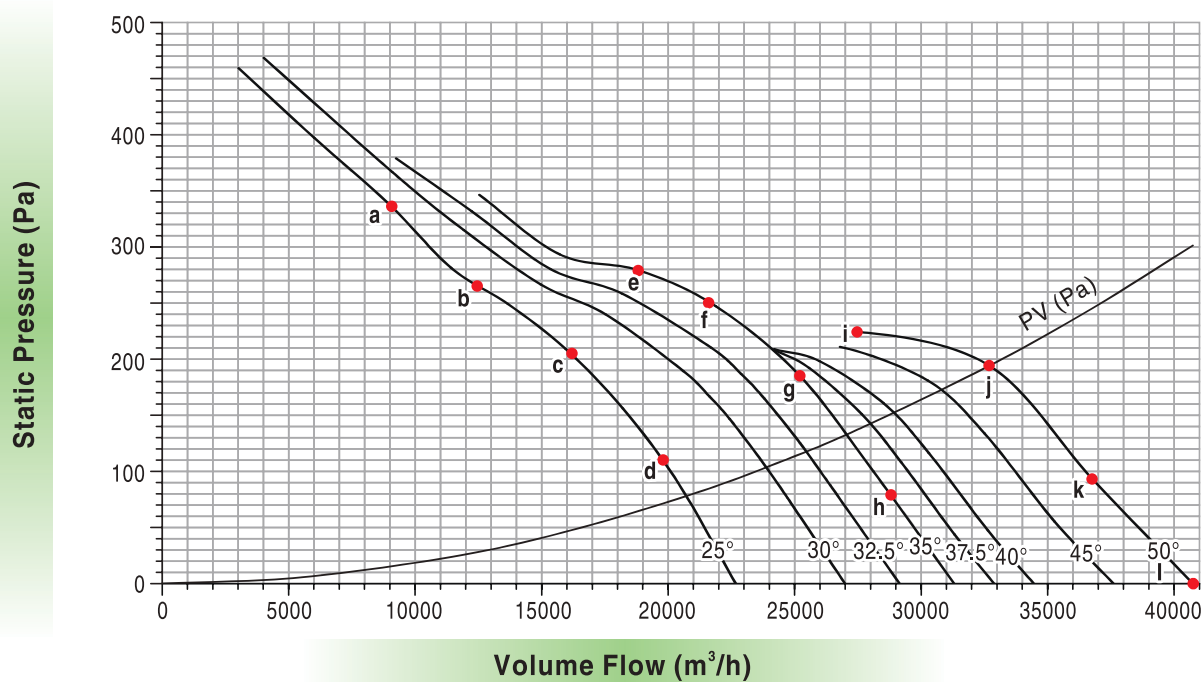


Fan Speed : 1450 RPM



Fan Speed : 1450 RPM

Air Density 1.2 kg m/s



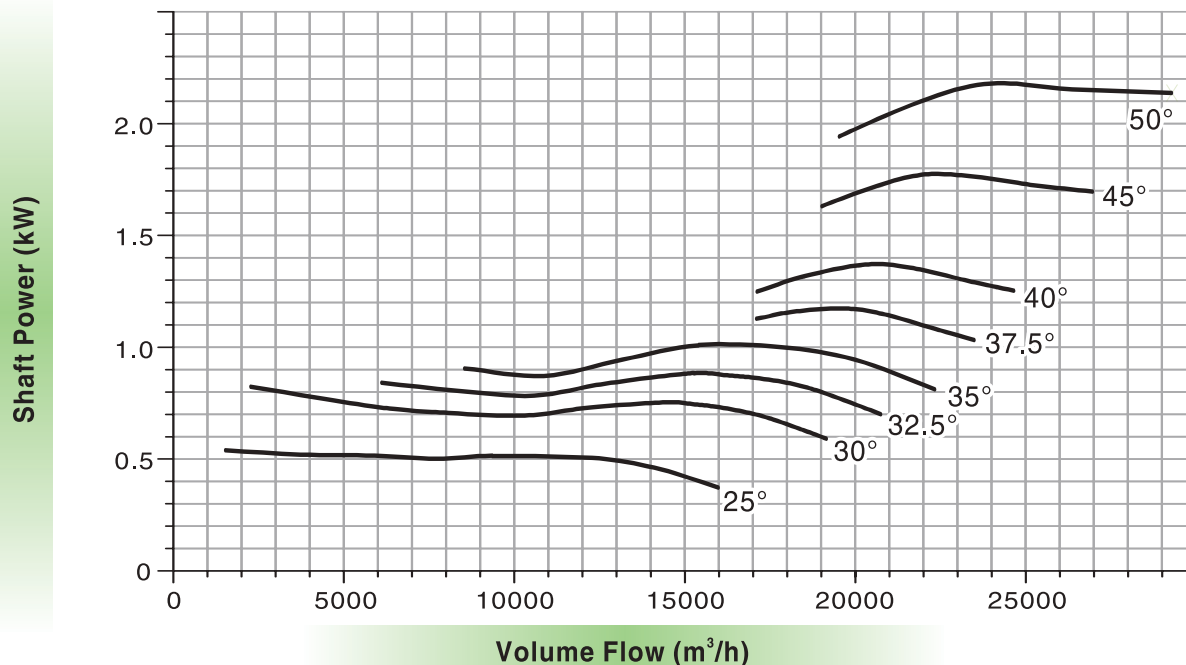
Sound Power Level Lwi (A) in dB(A)

RPM	a	b	c	d	e	f	g	h	i	j	k	l
1450	96	97	102	98	103	104	96	95	102	101	99	100

Note :

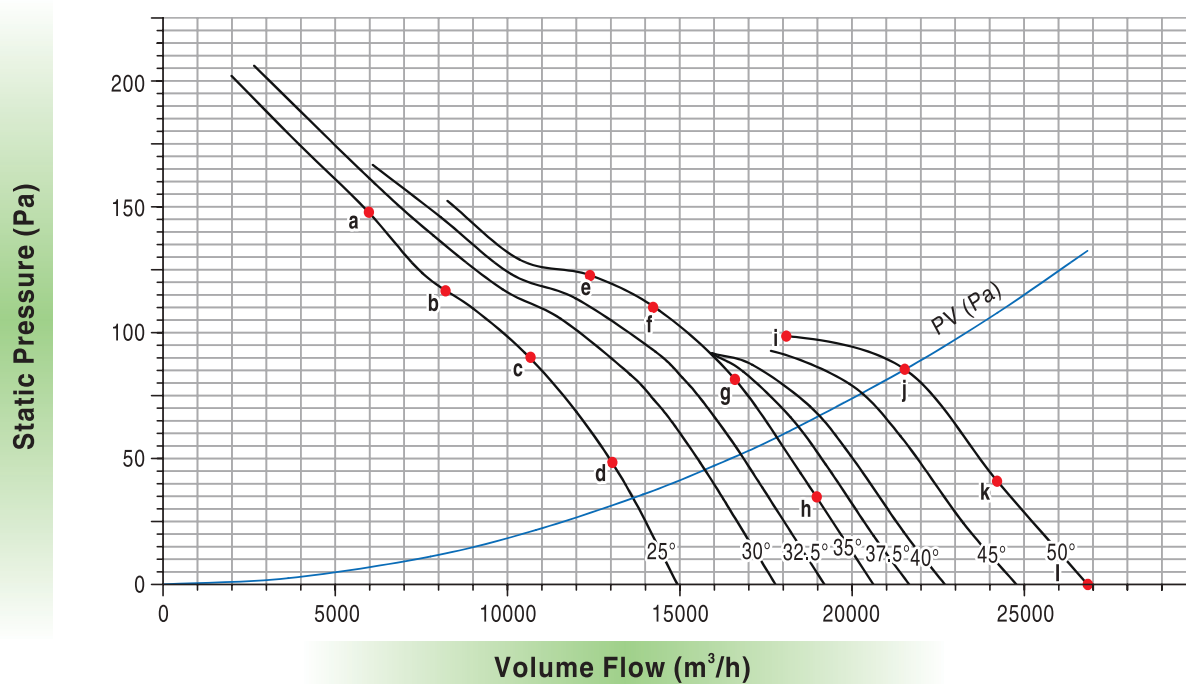
- Performance ratings do not include the effects of appurtenances (accessories).
- Values shown are for inlet LwiA sound power levels for installation Type D-Ducted inlet, Ducted outlet.

Fan Speed : 960 RPM



Fan Speed : 960 RPM

Air Density 1.2 kg m/s



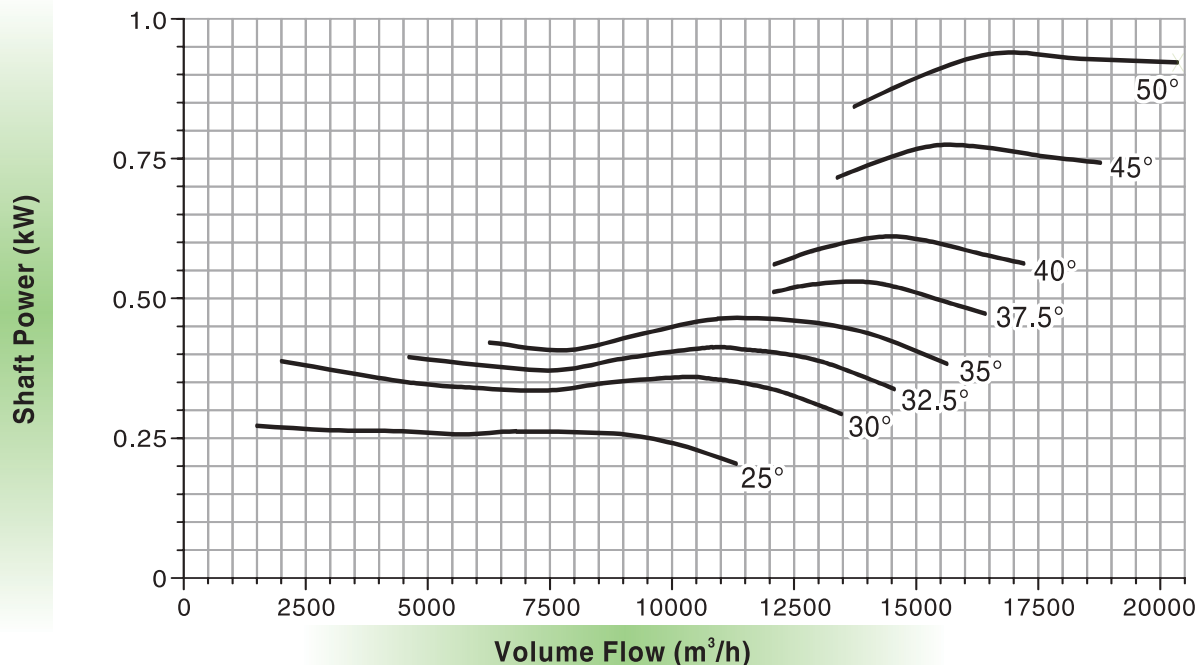
Sound Power Level Lwi (A) in dB(A)

RPM	a	b	c	d	e	f	g	h	i	j	k	l
960	85	86	87	86	91	92	86	85	88	90	95	99

Note :

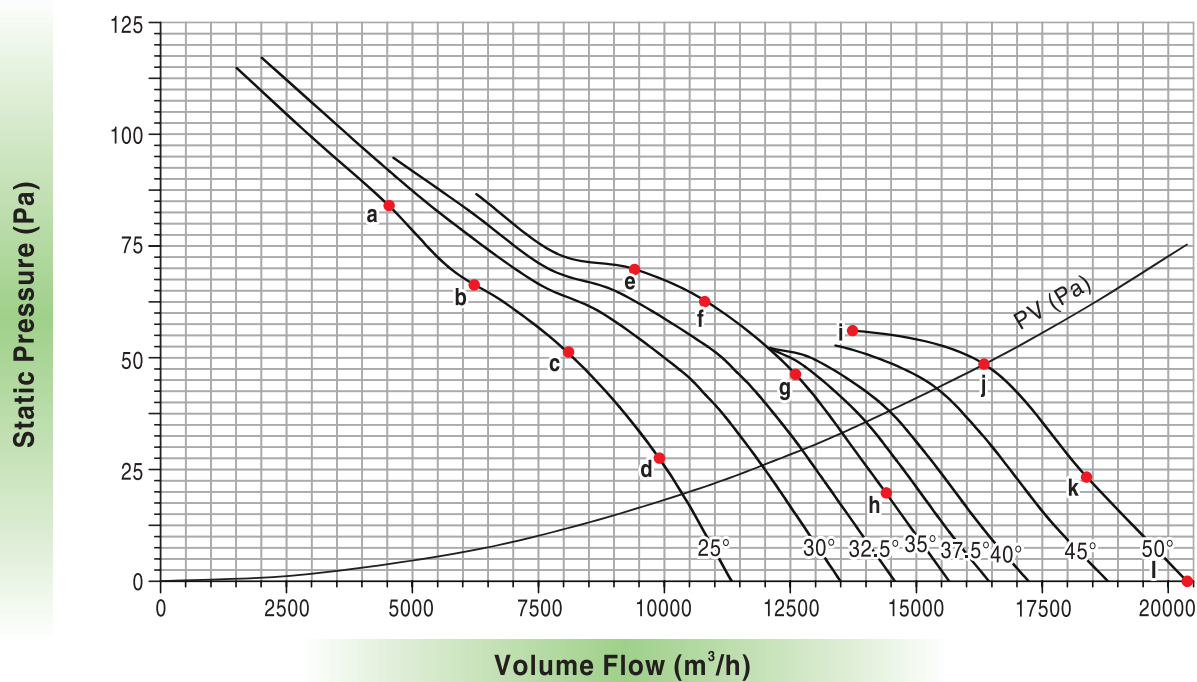
- Performance ratings do not include the effects of appurtenances (accessories).
- Values shown are for inlet LwiA sound power levels for installation Type D-Ducted inlet, Ducted outlet.

Fan Speed : 725 RPM



Fan Speed : 725 RPM

Air Density 1.2 kg m/s



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

RPM	a	b	c	d	e	f	g	h	i	j	k	l
725	77	78	83	79	80	82	78	85	83	82	83	81

Note :

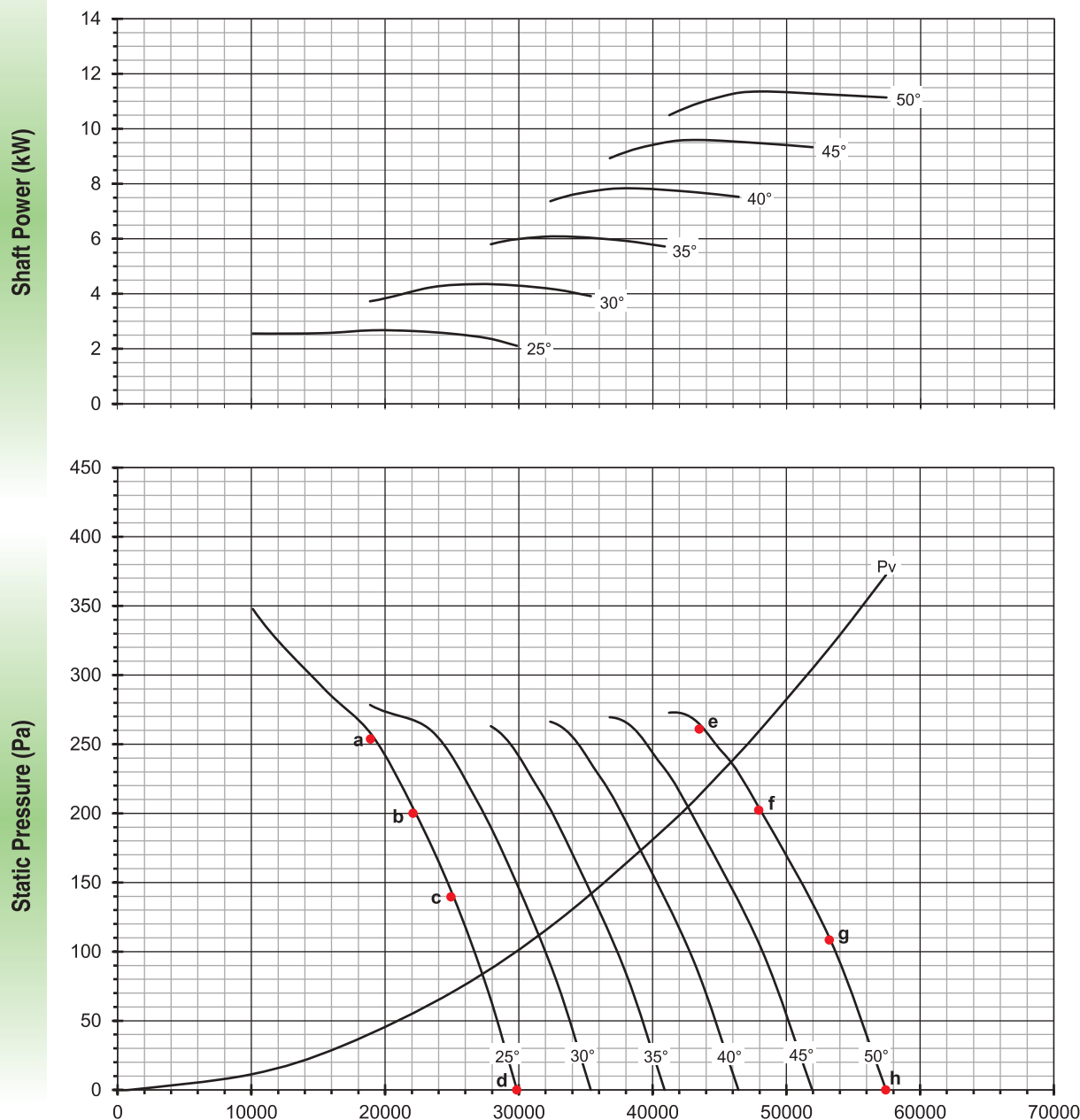
- Performance ratings do not include the effects of appurtenances (accessories).
- Values shown are for inlet LwiA sound power levels for installation Type D-Ducted inlet, Ducted outlet.

CAS 900/280/6-12/4

900 mm 1450 rev/min 50 hz

Air Density $\rho=1.2 \text{ kg/m}^3$

Fan Speed 1450 RPM



Volume Flow (m³/h)

Sound Power Level Lwi(A) in dB

RPM	a	b	c	d	e	f	g	h
1450	102	102	101	98	102	101	102	102

Note :

- 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.
- Ratings include the effects of duct end correction.

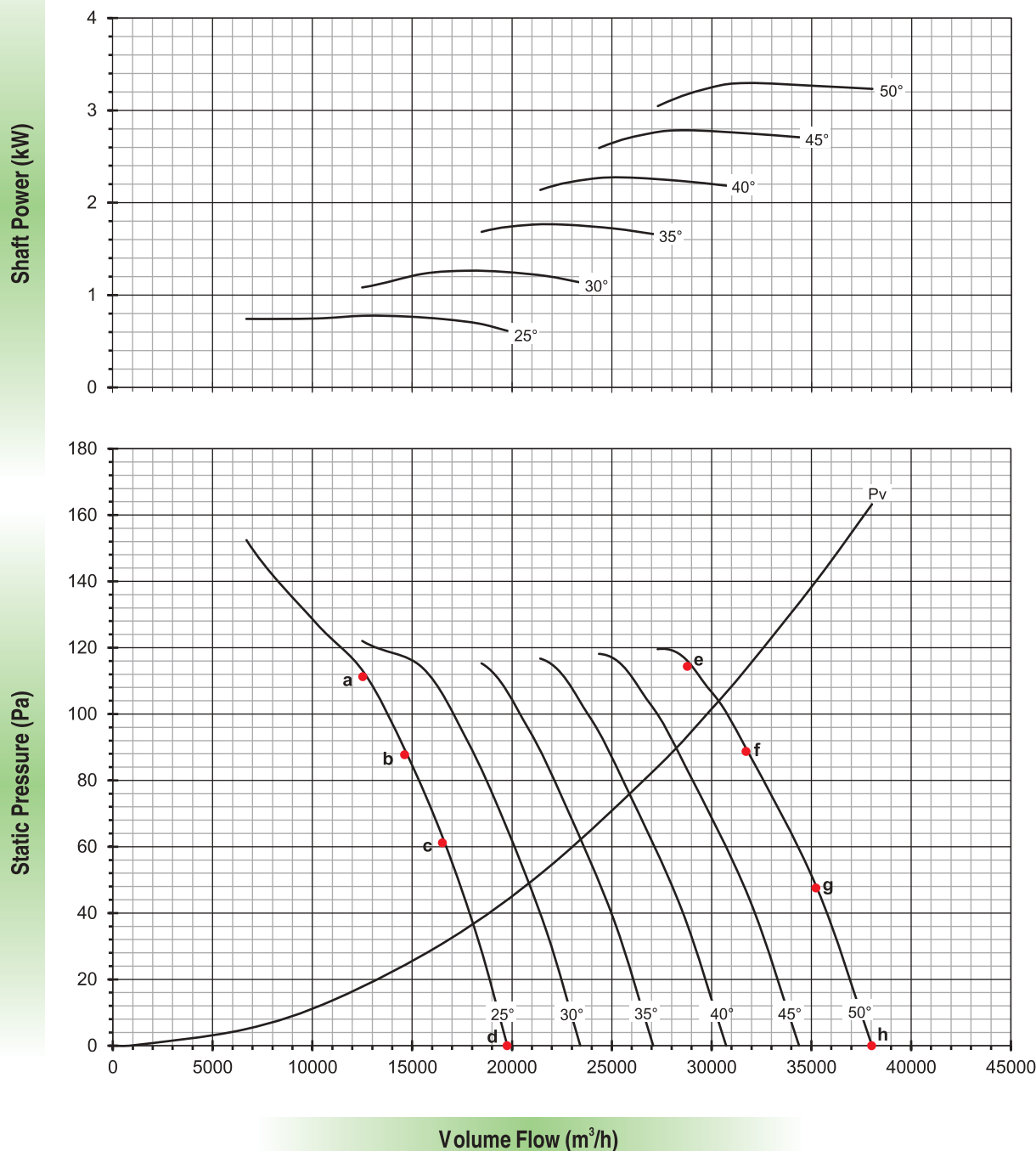


CAS 900/280/6-12/6

900 mm 960 rev/min 50 hz

Air Density $\rho=1.2 \text{ kg/m}^3$

Fan Speed 960 RPM



Sound Power Level $L_{wi}(A)$ in dB

RPM	a	b	c	d	e	f	g	h
960	91	91	90	88	92	91	91	92

Note :

- 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 $L_{wi}A$ sound power levels for installation type D: ducted inlet, ducted outlet.
- Ratings include the effects of duct end correction.

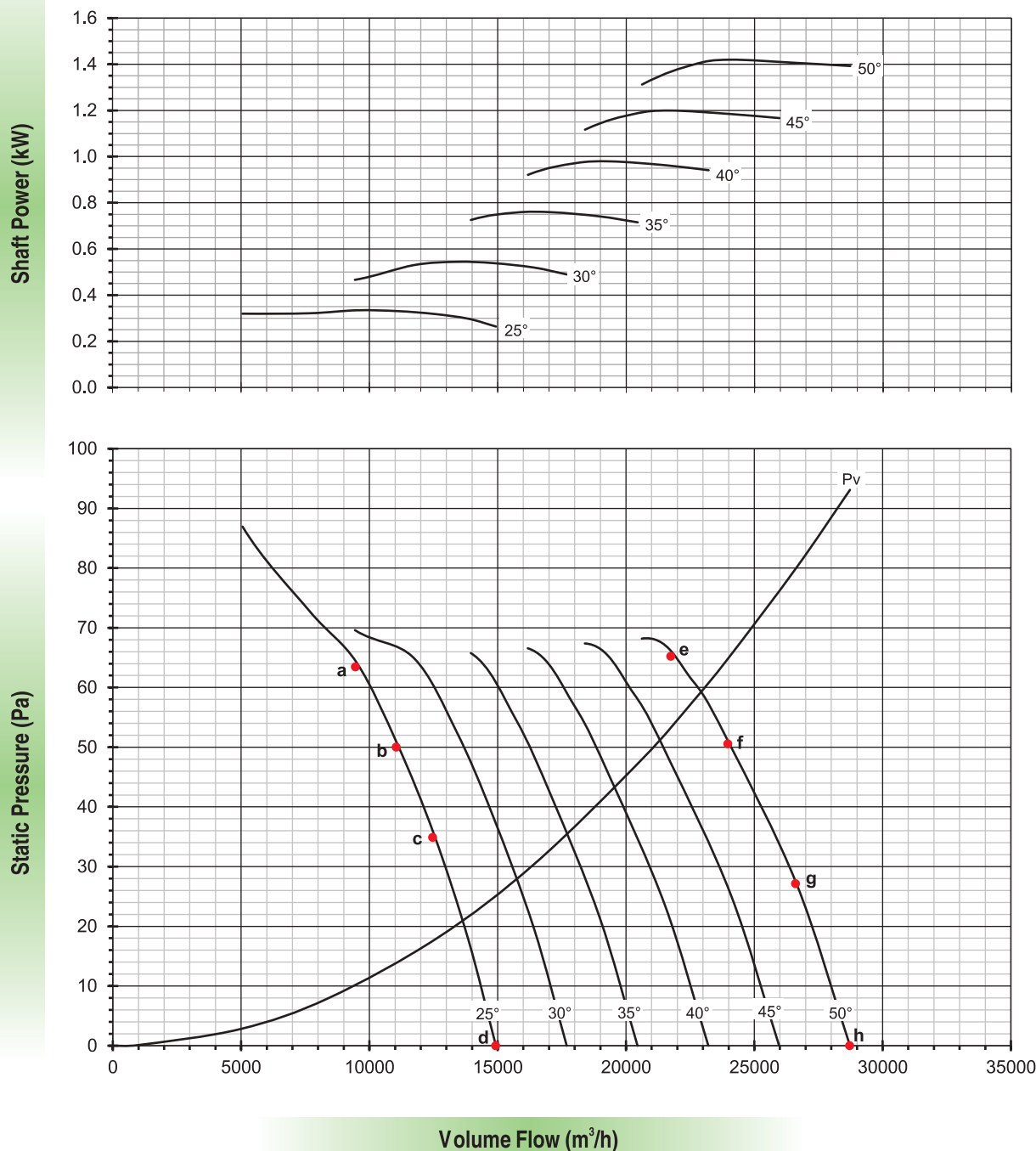


CAS 900/280/6-12/8

900 mm 725 rev/min 50 hz

Air Density $\rho=1.2 \text{ kg/m}^3$

Fan Speed 725 RPM



Volume Flow (m^3/h)

Sound Power Level $L_{wi}(A)$ in dB

RPM	a	b	c	d	e	f	g	h
725	83	84	83	80	84	84	84	84

Note :

- 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 $L_{wi}A$ sound power levels for installation type D: ducted inlet, ducted outlet.
- Ratings include the effects of duct end correction.

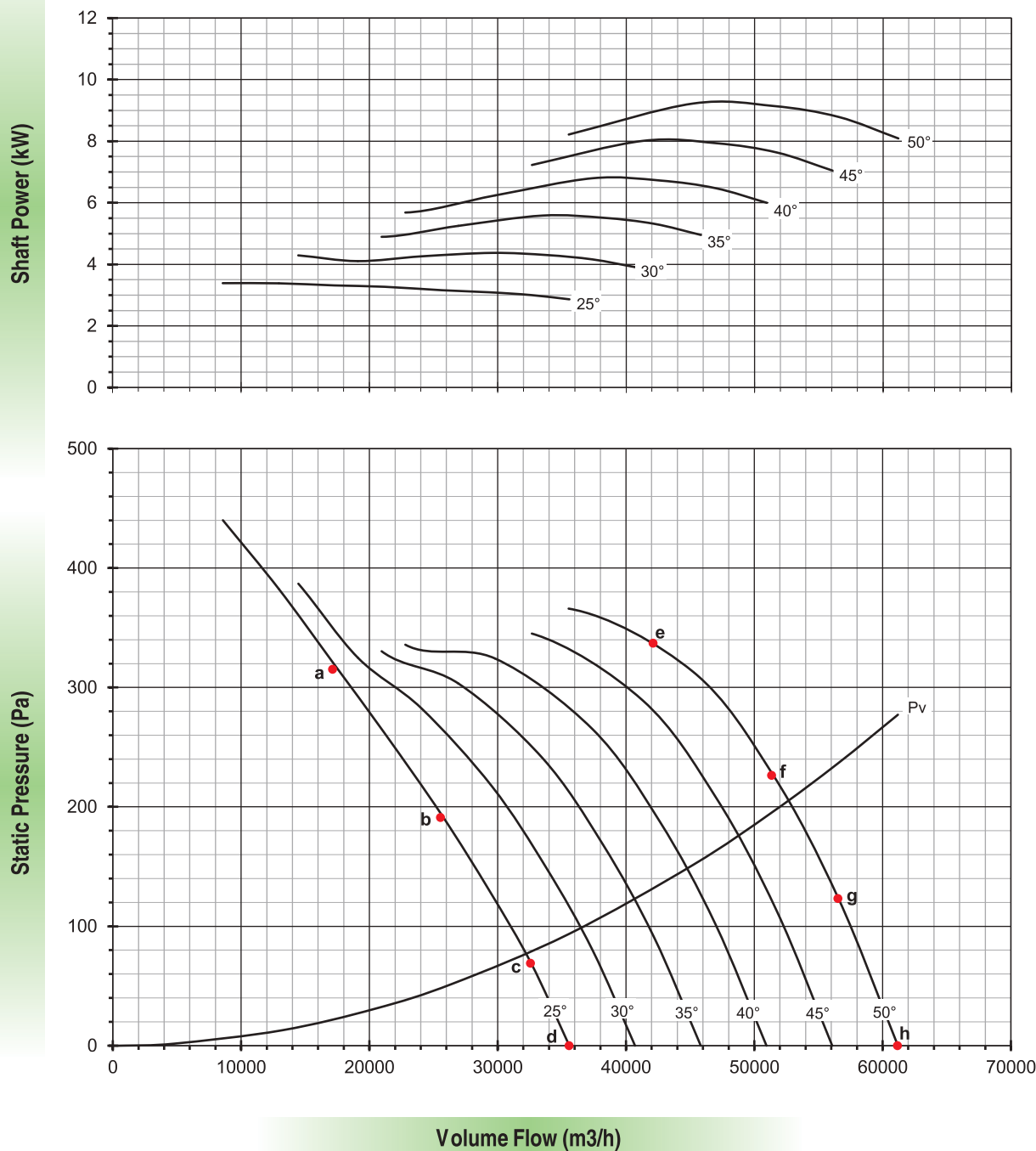


CAS 1000/280/6-12/4

1000 mm 1450 rev/min 50 hz

Air Density $\rho=1.2 \text{ kg/m}^3$

Fan Speed 1450 RPM



Volume Flow (m³/h)

Sound Power Level $L_{wi}(A)$ in dB

RPM	a	b	c	d	e	f	g	h
1450	103	105	104	103	108	103	101	101

Note :

- 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 $L_{wi}A$ sound power levels for installation type D: ducted inlet, ducted outlet.
- Ratings include the effects of duct end correction.

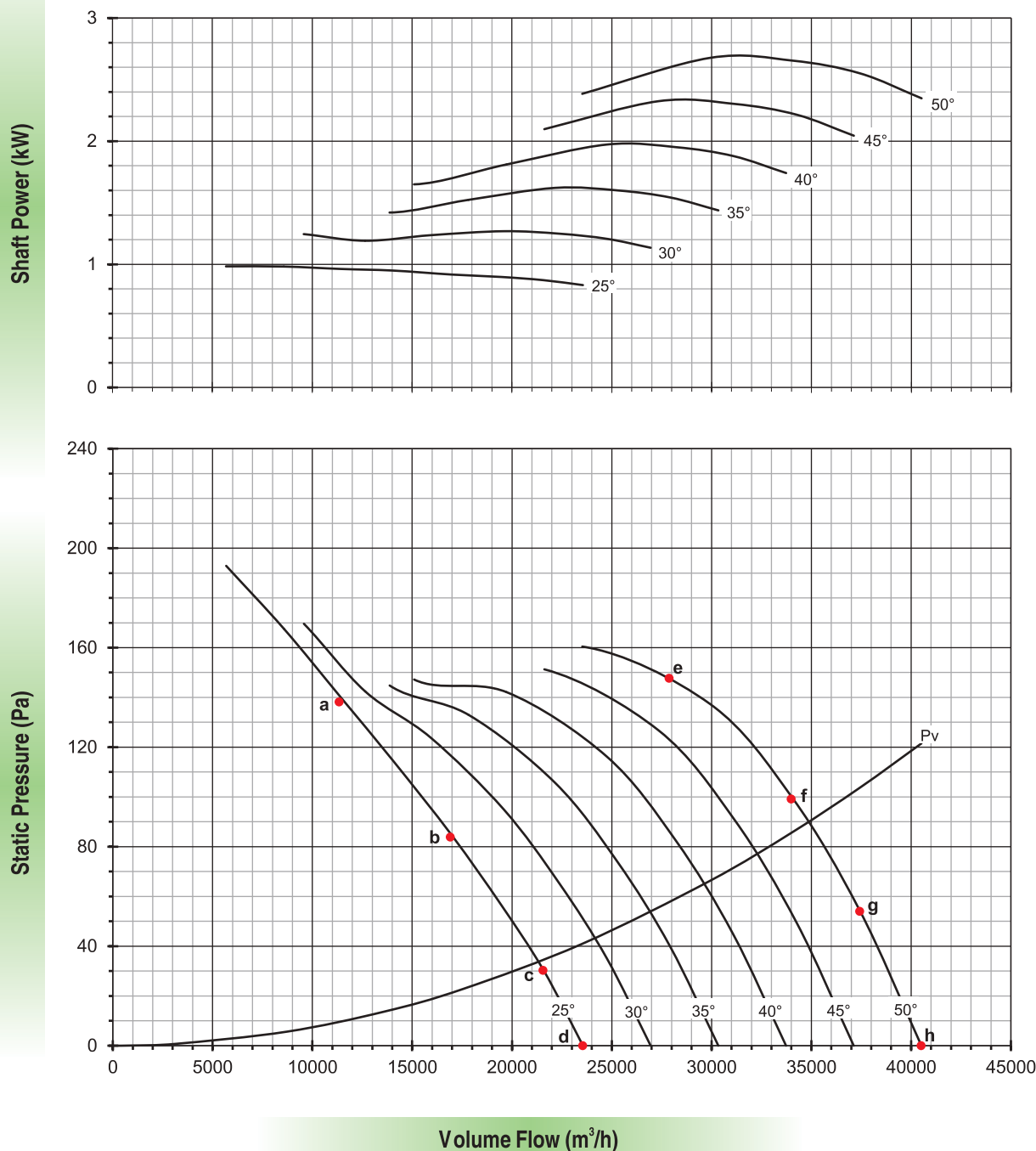


CAS 1000/280/6-12/6

1000 mm 960 rev/min 50 hz

Air Density $\rho=1.2 \text{ kg/m}^3$

Fan Speed 960 RPM



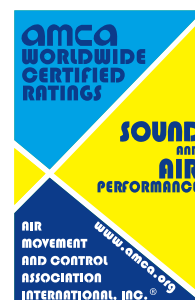
Volume Flow (m^3/h)

Sound Power Level $L_{wi}(A)$ in dB

RPM	a	b	c	d	e	f	g	h
960	92	94	93	92	97	93	91	91

Note :

- 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 $L_{wi}A$ sound power levels for installation type D: ducted inlet, ducted outlet.
- Ratings include the effects of duct end correction.

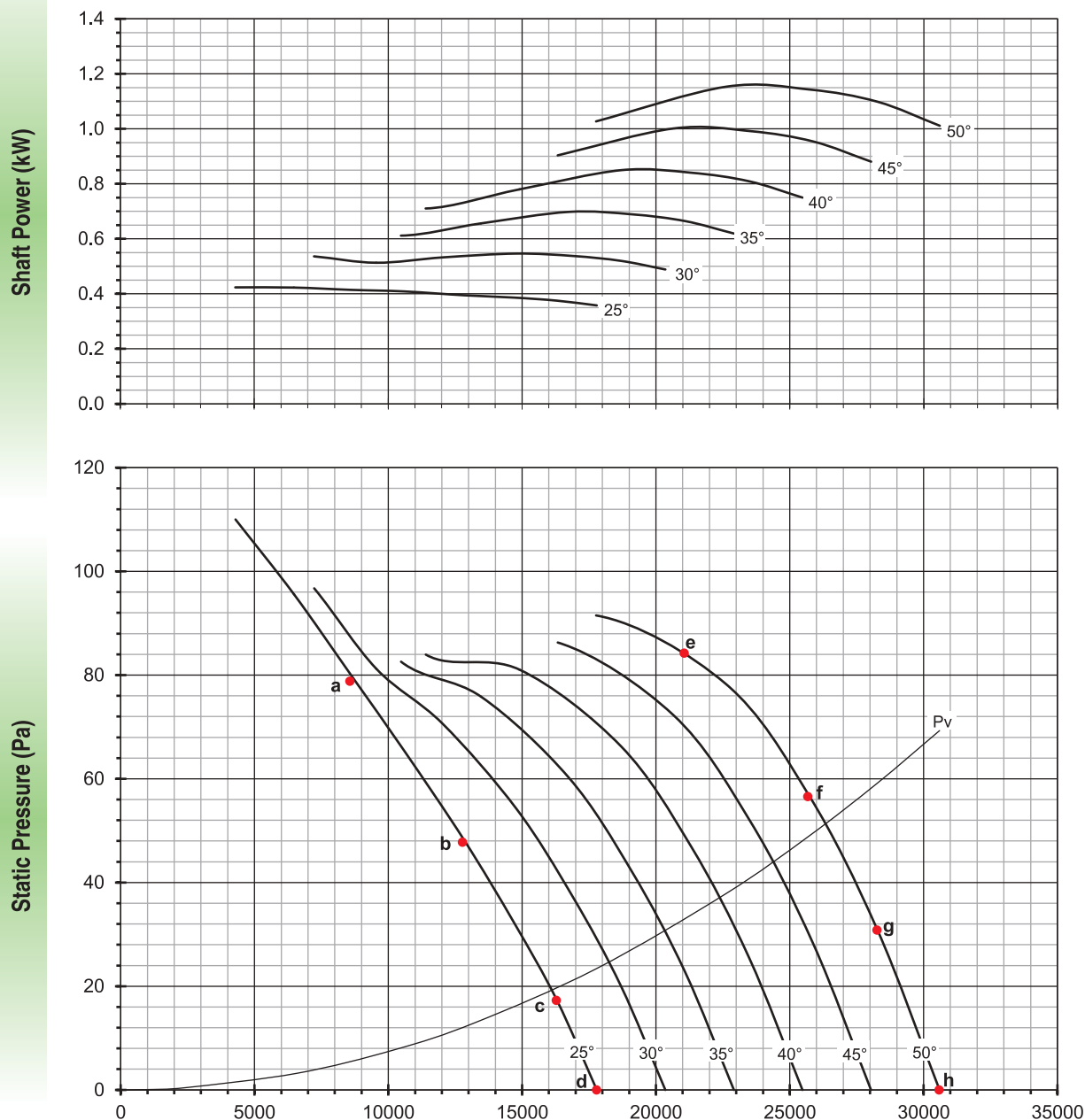


CAS 1000/280/6-12/8

1000 mm 725 rev/min 50 hz

Air Density $\rho=1.2 \text{ kg/m}^3$

Fan Speed 725 RPM



Sound Power Level Lwi(A) in dB

Volume Flow (m3/h)

RPM	a	b	c	d	e	f	g	h
725	85	86	86	85	89	85	83	83

Note :

- 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.
- Ratings include the effects of duct end correction.

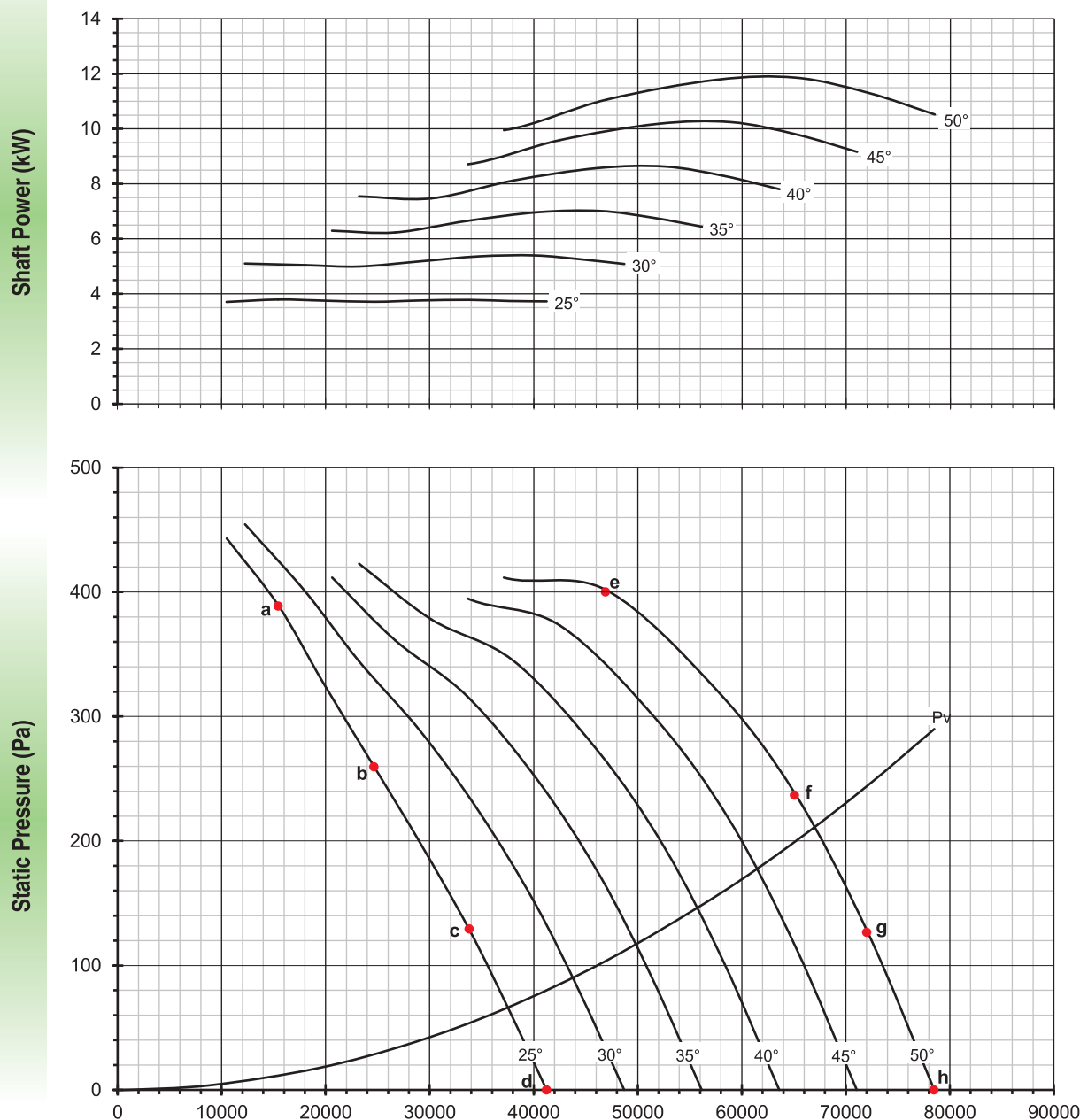


CAS 1120/280/6-12/4

1120 mm 1450 rev/min 50 hz

Air Density $\rho=1.2 \text{ kg/m}^3$

Fan Speed 1450 RPM



Volume Flow (m^3/h)

Sound Power Level $L_{wi}(A)$ in dB

RPM	a	b	c	d	e	f	g	h
1450	104	106	108	107	111	107	105	105

Note :

- 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 $L_{wi}A$ sound power levels for installation type D: ducted inlet, ducted outlet.
- Ratings include the effects of duct end correction.

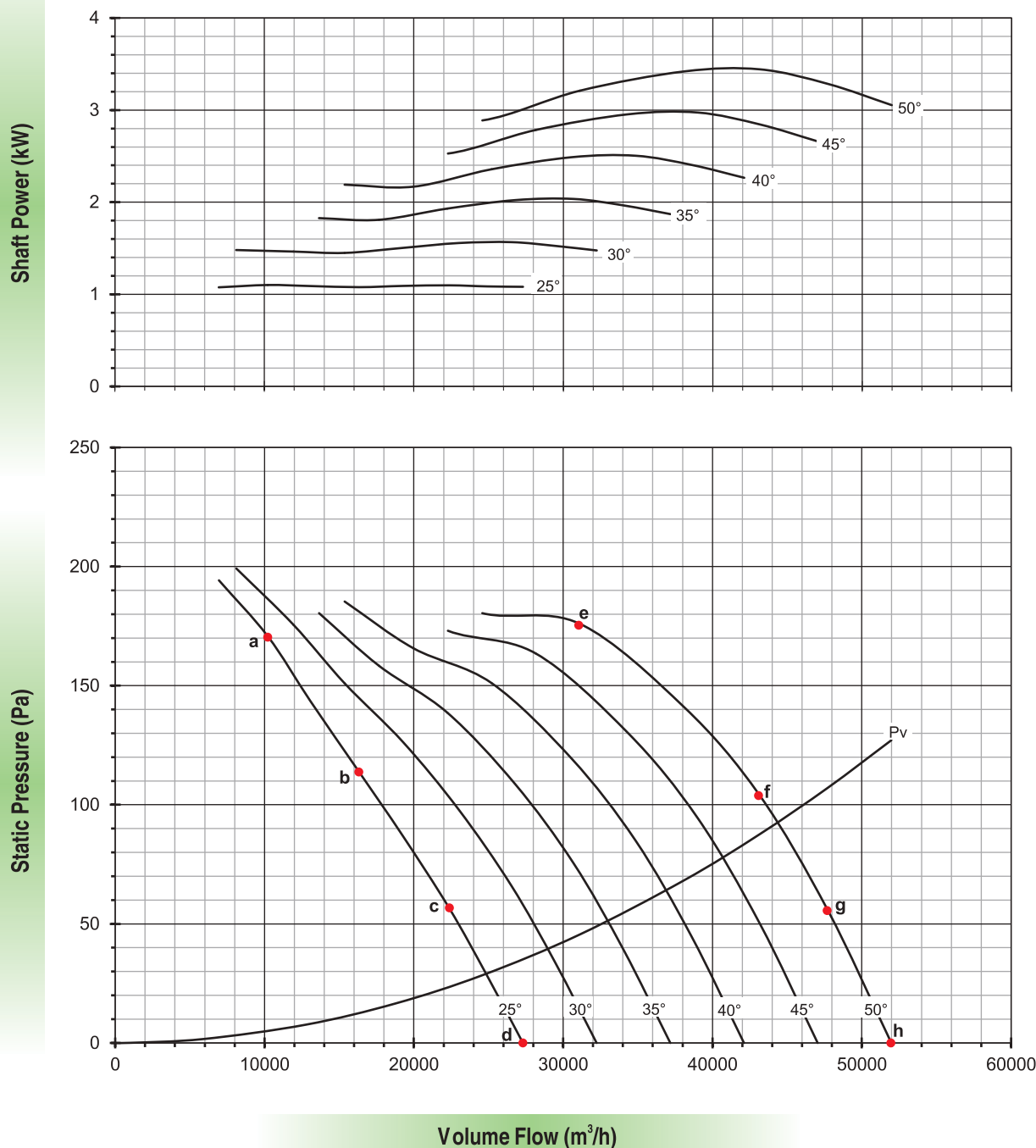


CAS 1120/280/6-12/6

1120 mm 960 rev/min 50 hz

Air Density $\rho=1.2 \text{ kg/m}^3$

Fan Speed 960 RPM



Sound Power Level $L_{wi}(A)$ in dB

RPM	a	b	c	d	e	f	g	h
960	93	95	96	96	100	97	95	95

Note :

- 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 $L_{wi}A$ sound power levels for installation type D: ducted inlet, ducted outlet.
- Ratings include the effects of duct end correction.

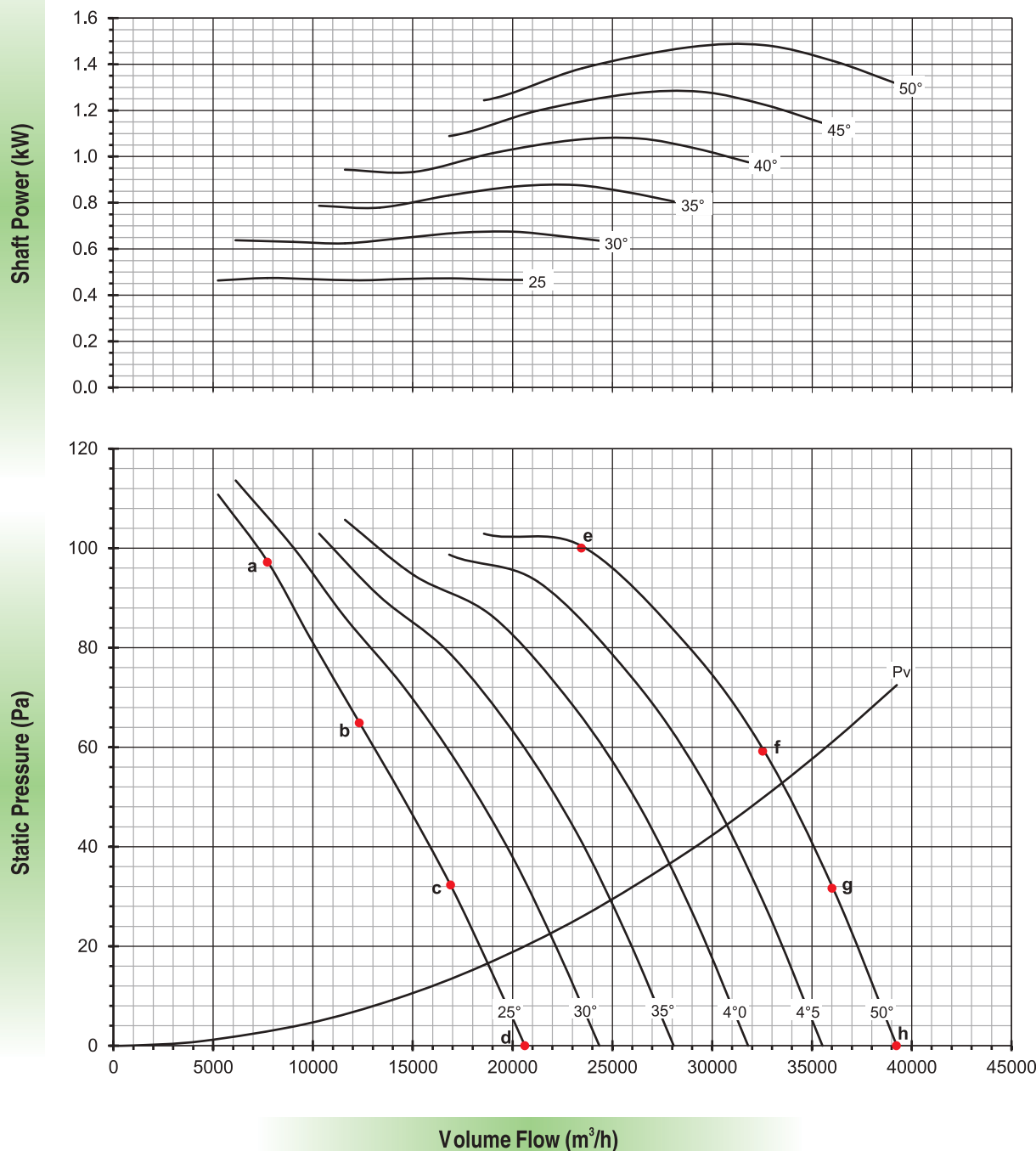


CAS 1120/280/6-12/8

1120 mm 725 rev/min 50 hz

Air Density $\rho=1.2 \text{ kg/m}^3$

Fan Speed 725 RPM



Volume Flow (m^3/h)

Sound Power Level $L_{wi}(A)$ in dB

RPM	a	b	c	d	e	f	g	h
725	86	87	89	89	93	90	88	88

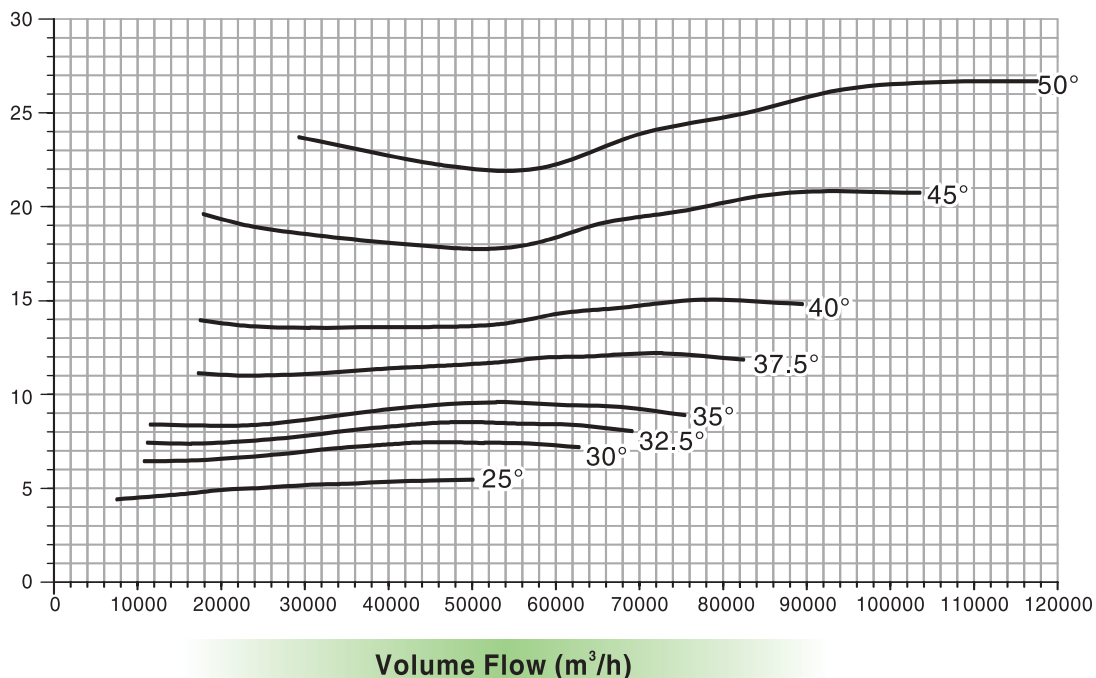
Note :

- 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 $L_{wi}A$ sound power levels for installation type D: ducted inlet, ducted outlet.
- Ratings include the effects of duct end correction.



Fan Speed : 1450 RPM

Shaft Power (kW)

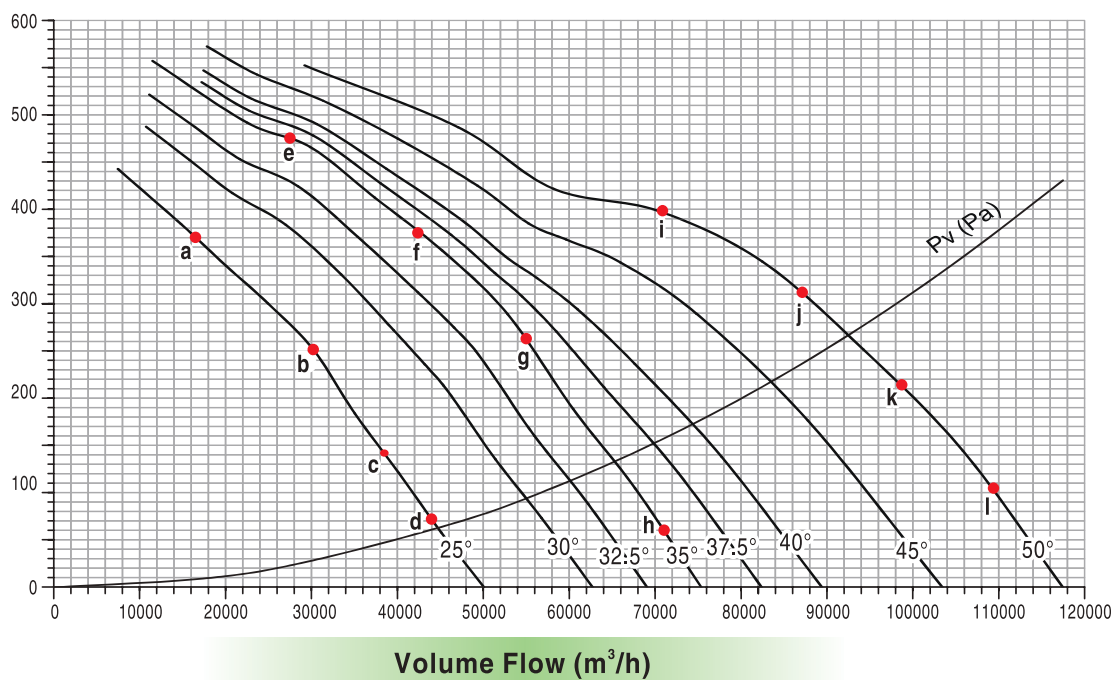


Volume Flow (m³/h)

Fan Speed : 1450 RPM

Air Density 1.2 kg m/s

Static Pressure (Pa)



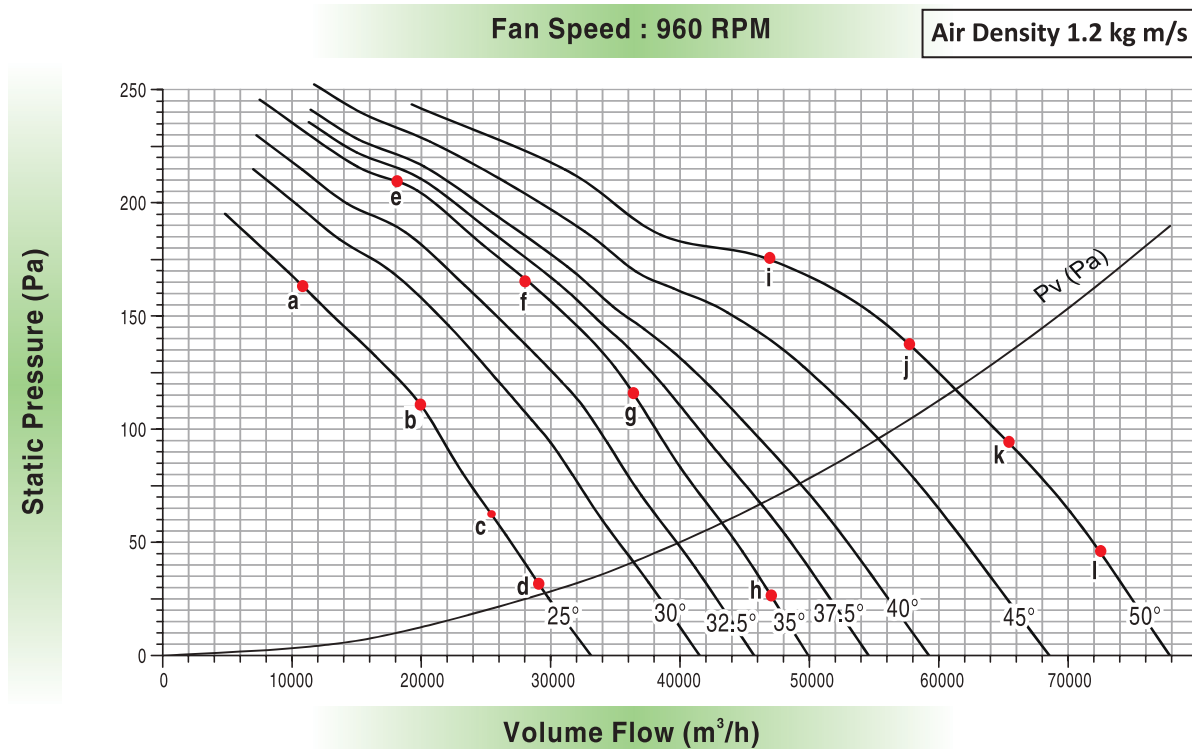
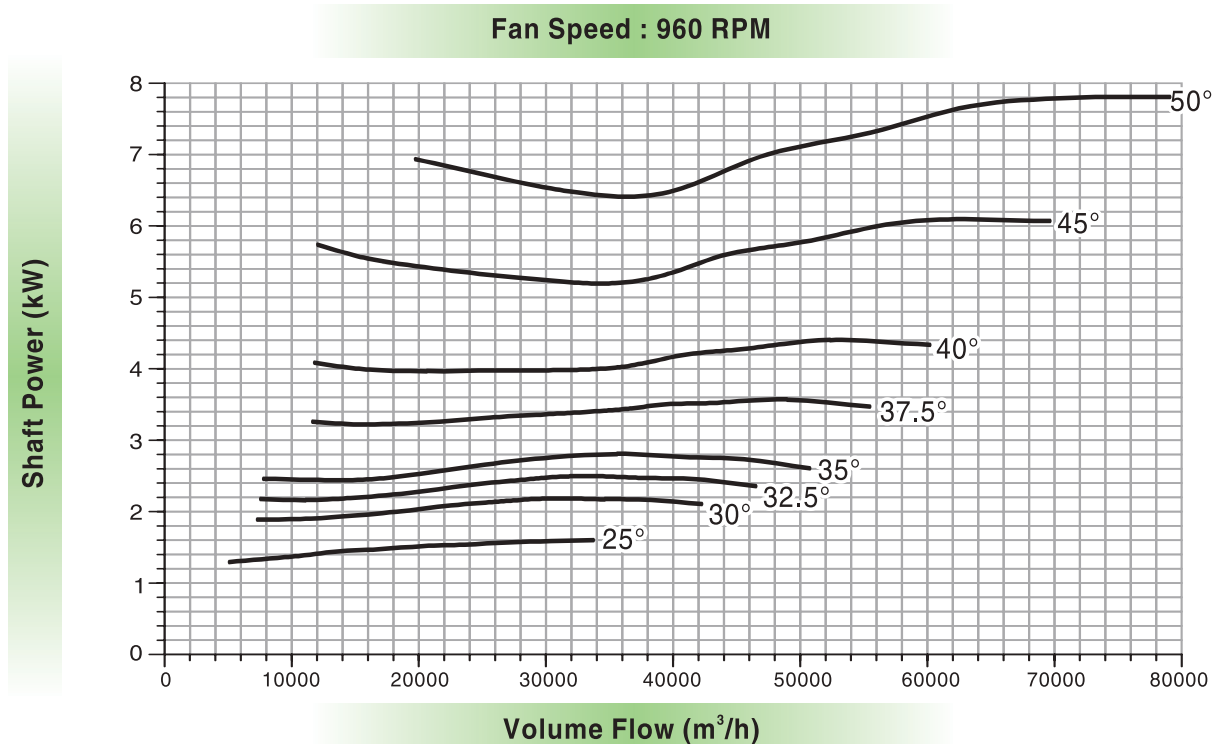
Volume Flow (m³/h)

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

RPM	a	b	c	d	e	f	g	h	i	j	k	l
1450	107	108	110	112	108	110	115	111	114	115	114	112

Note :

- Performance ratings do not include the effects of appurtenances (accessories).
- Values shown are for inlet LwiA sound power levels for installation Type D-Ducted inlet, Ducted outlet.



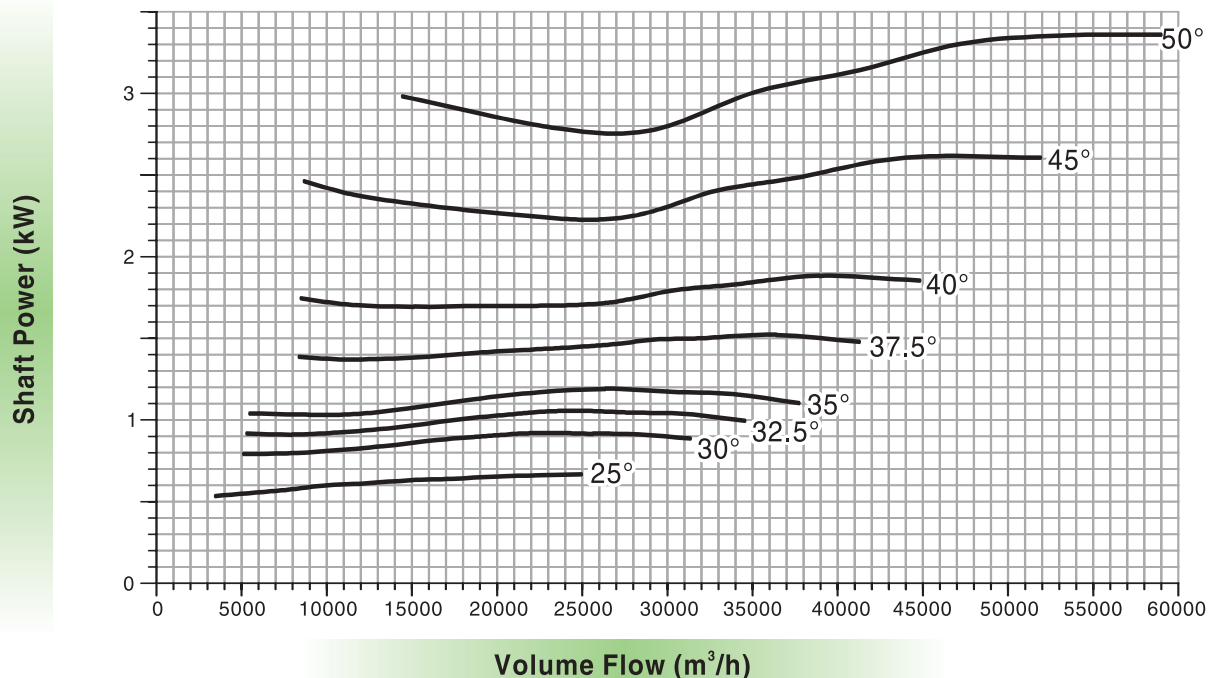
Sound Power Level L_{wi} (A) in dB(A)

RPM	a	b	c	d	e	f	g	h	i	j	k	l
1450	107	108	110	111	108	110	112	111	115	116	114	111

Note :

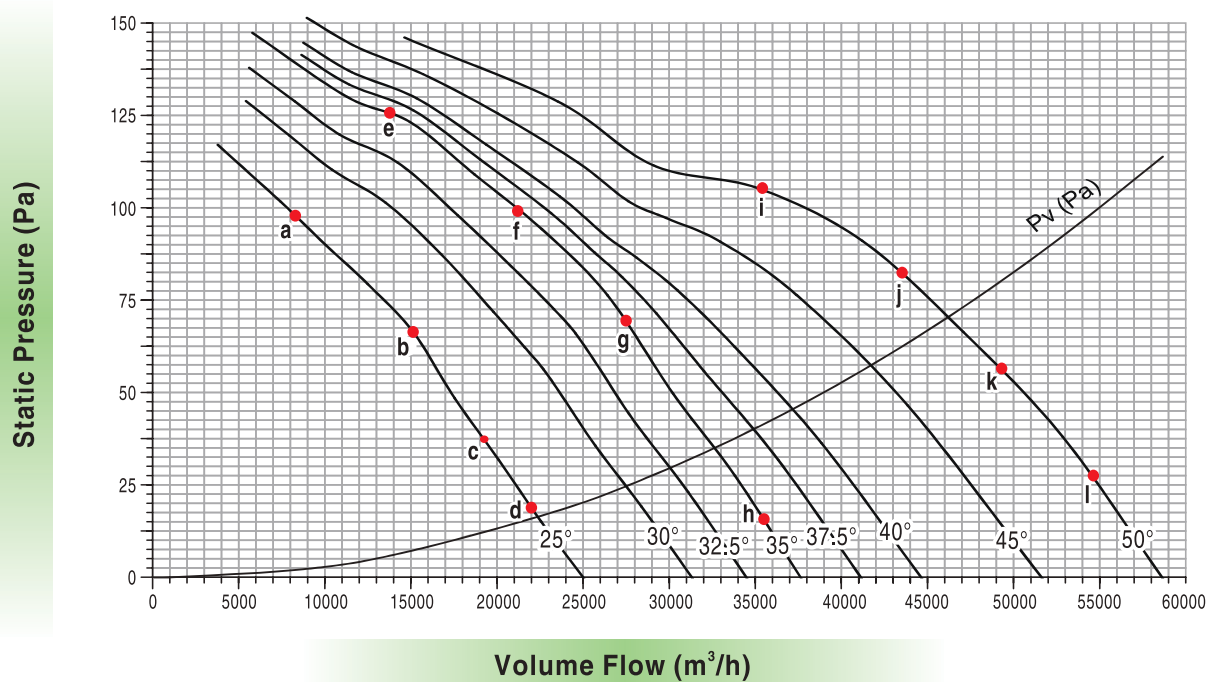
- Performance ratings do not include the effects of appurtenances (accessories).
- Values shown are for inlet L_{wi}A sound power levels for installation Type D-Ducted inlet, Ducted outlet.

Fan Speed : 725 RPM



Fan Speed : 725 RPM

Air Density 1.2 kg m/s

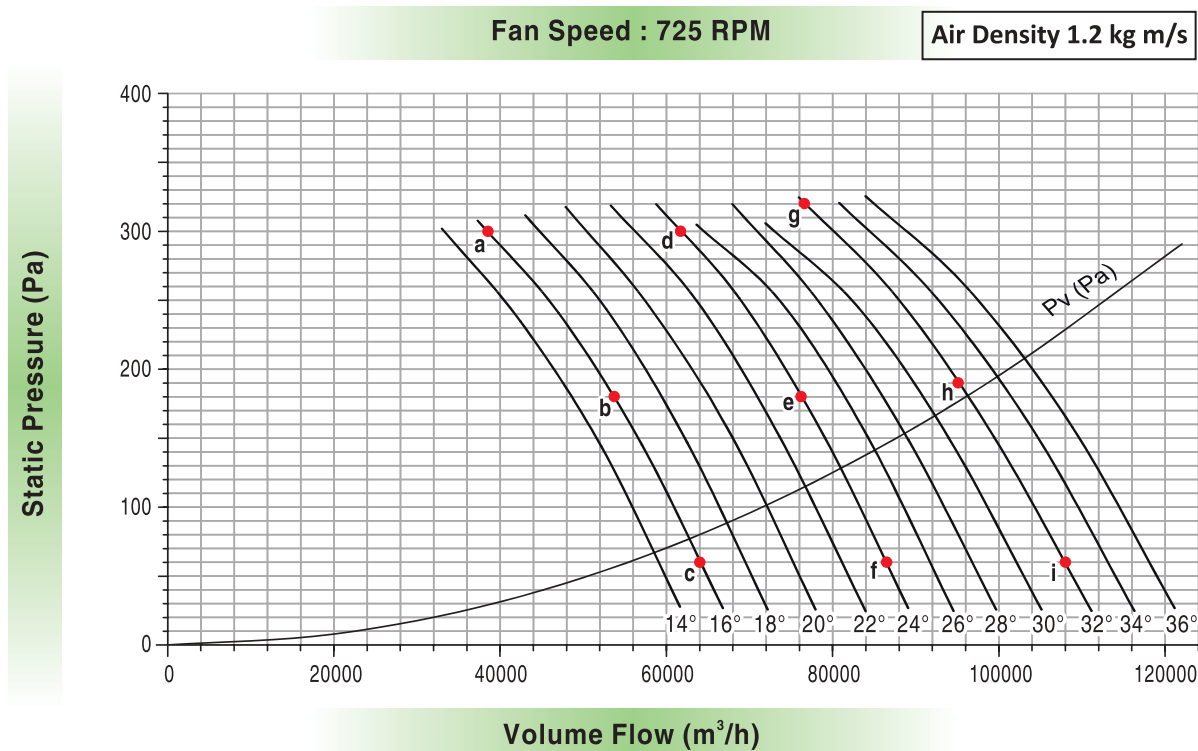
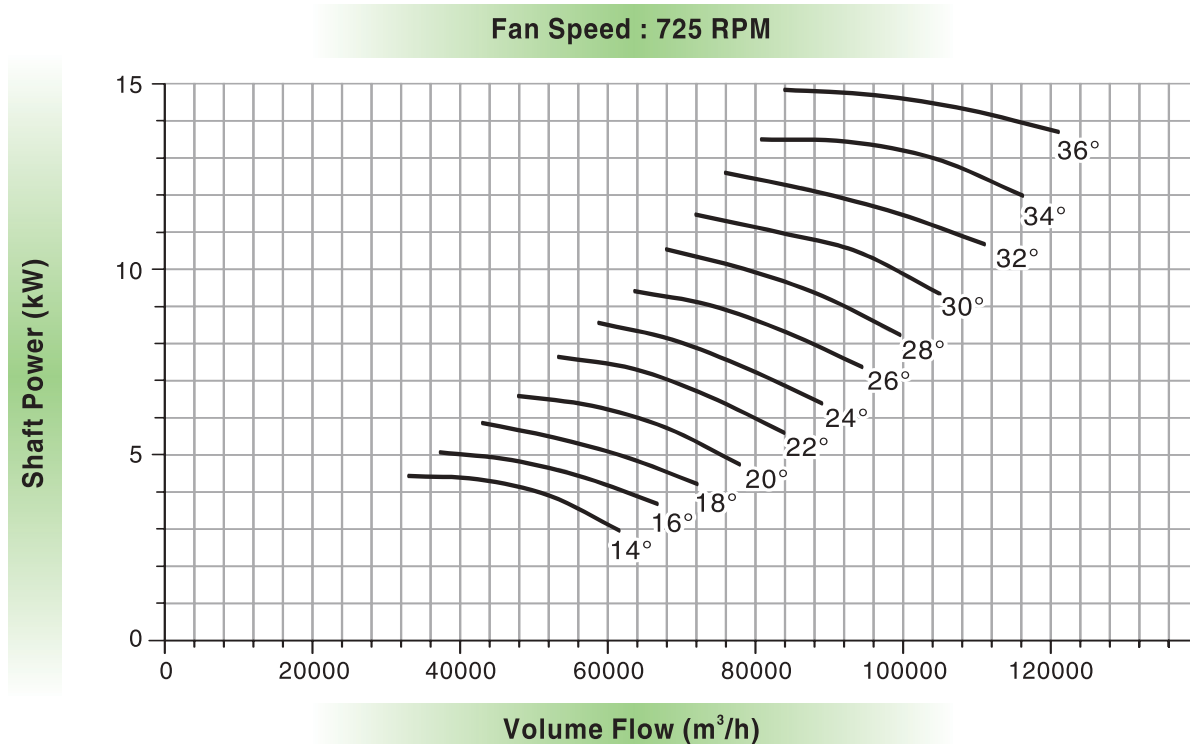


Sound Power Level Lwi (A) in dB(A)

RPM	a	b	c	d	e	f	g	h	i	j	k	l
725	88	89	90	91	95	91	92	97	94	98	96	99

Note :

- Performance ratings do not include the effects of appurtenances (accessories).
- Values shown are for inlet LwiA sound power levels for installation Type D-Ducted inlet, Ducted outlet.

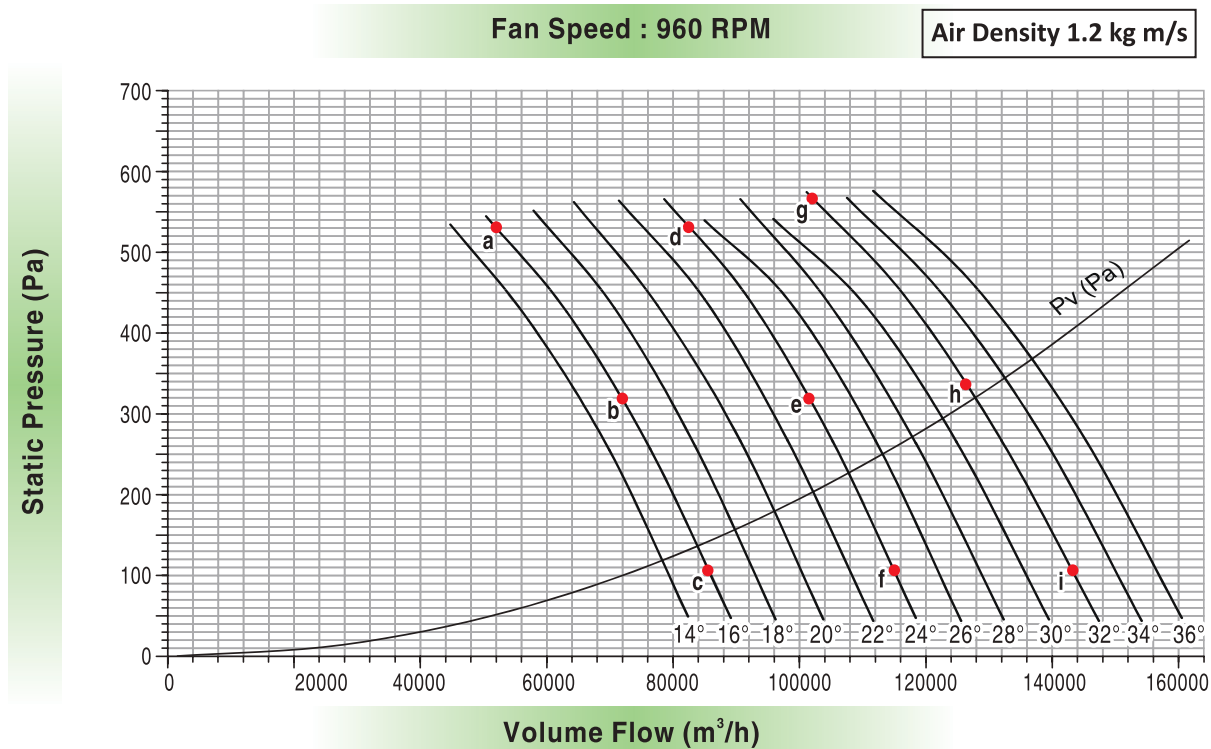
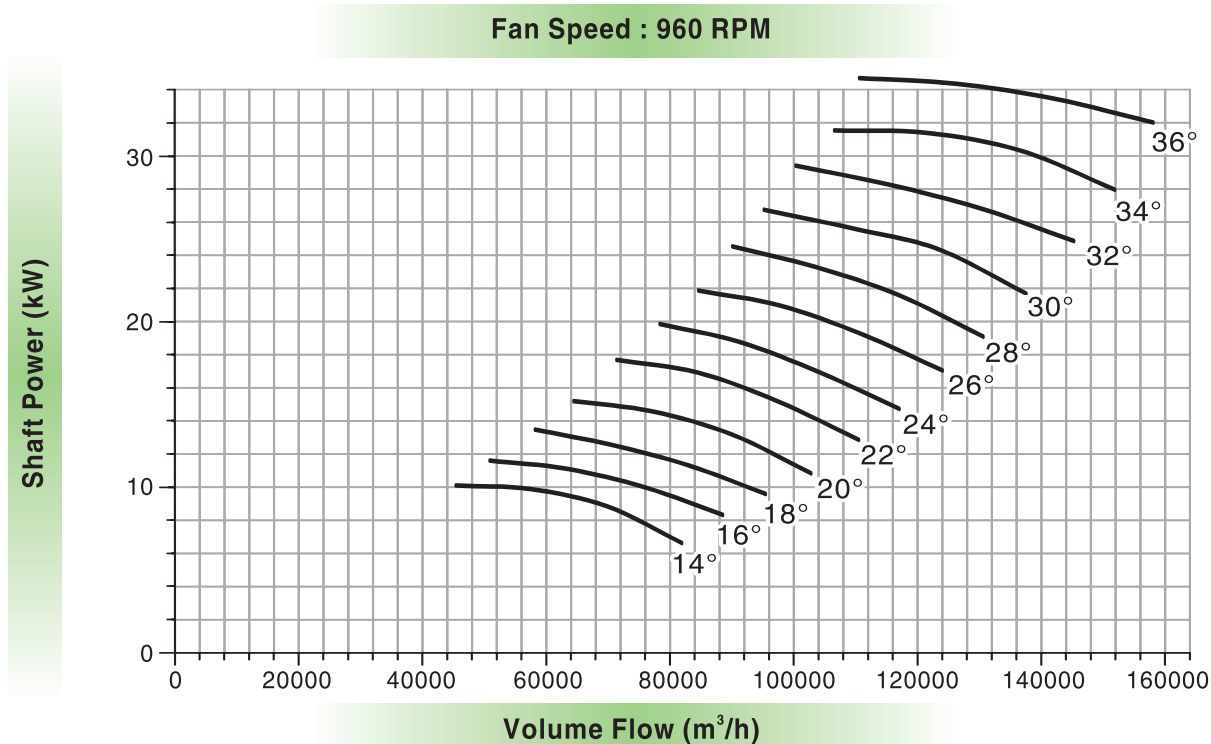


Sound Power Level Lwi (A) in dB(A)

RPM	a	b	c	d	e	f	g	h	i
725	92	94	95	96	96	97	98	99	98

Note :

- Performance ratings do not include the effects of appurtenances (accessories).
- Values shown are for inlet LwiA sound power levels for installation Type D-Ducted inlet, Ducted outlet.



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

RPM	a	b	c	d	e	f	g	h	i
960	103	102	104	105	104	108	106	109	106

Note :

- Performance ratings do not include the effects of appurtenances (accessories).
- Values shown are for inlet LwiA sound power levels for installation Type D-Ducted inlet, Ducted outlet.



Heating, ventilating and Air conditioning systems depending on your building or process, you may need Axial Flow Fans Handling unit or Air Distribution products. And here Crystal is at a phone calls away.

Crystal Air Systems

(An ISO 9001-2008 CERTIFIED COMPANY)

Works :

Unit I : 47/5-6, Ganpati Ind. Area, Opp. Omaxe City,
Bahadurgarh (HR)-124507

Head Office :

E-2, 2nd Floor, Kalkaji Main Market, New Delhi-110019
Tel. : 011-49057211, 011-49053555
Email : info@crystalairsystems.co.in | crystal_air@rediffmail.com

Branches :

MUMBAI | BENGALURU | CHENNAI | KOLKATA

Crystal's products are subject to continuous improvements. Crystal reserves the right to modify product design, specifications and information in this brochure without notice and without incurring any obligations.