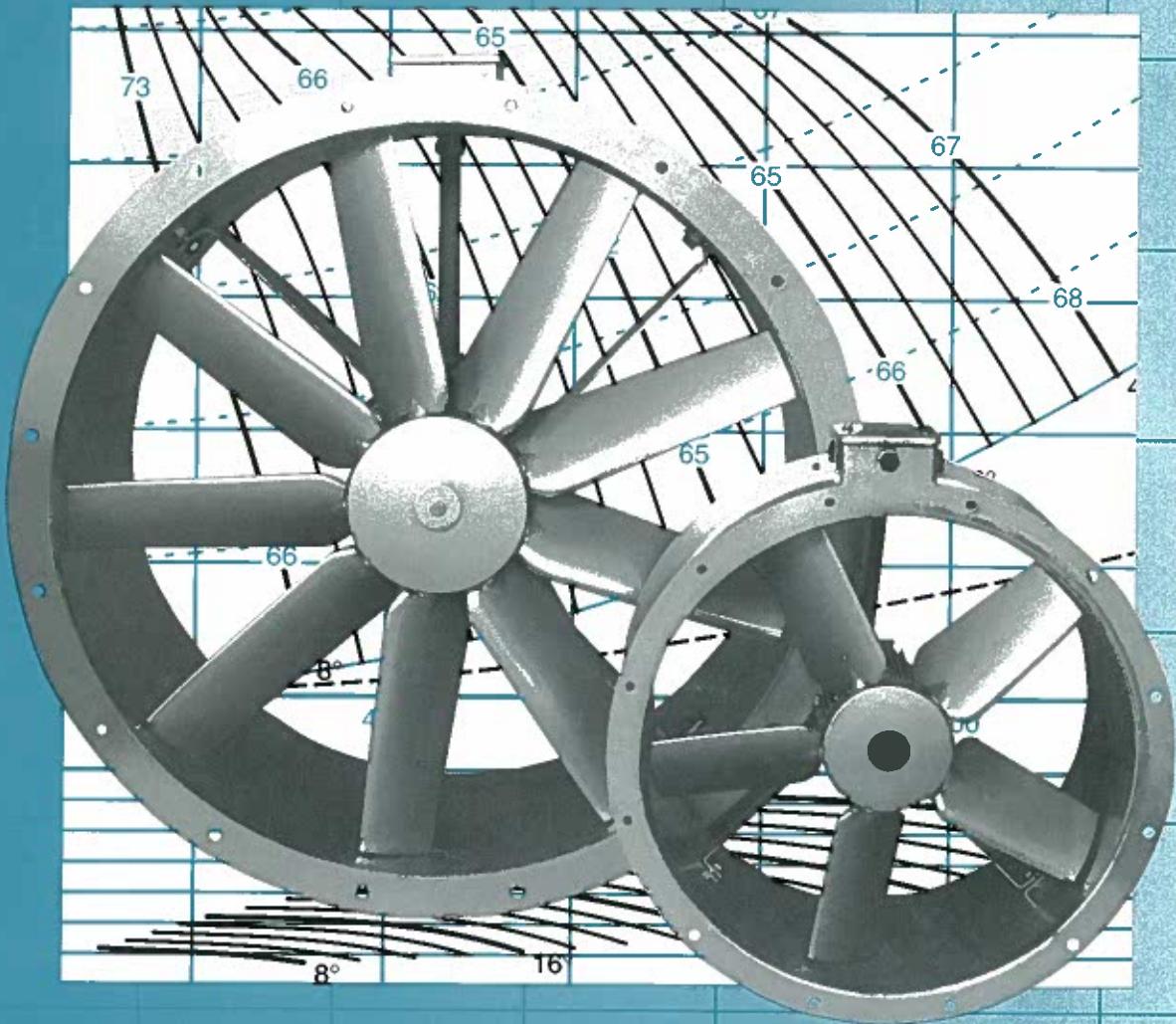


RECEIVED SEP 18 2000

Bulletin JMA60-99

June 1999



60Hz



JM AEROFOIL

Contents & Introduction

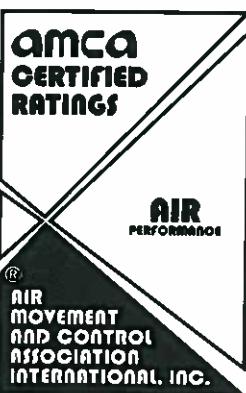


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Fan sizes 112 & 125	13
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Ratings



American Fan Company certifies that the model JM Aerofoil fans shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test 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.

Quality Assurance



American Fan Company's Quality Management System is certified to ISO-9001 standards (Registration Number AQC-19201).

The high performance JM Aerofoil Fan

Benefits of the JM Aerofoil Fan include compactness, low cost, high efficiency and rugged design. Availability in numerous fan diameters, hub diameters, speeds and blade solidities assures a highly efficient selection for your application.



Sound Levels

Extensive sound testing has proved that the JM Aerofoil axial fans have the lowest sound power levels currently available. Both inlet and outlet sound power levels are given for every fan size and speed at the design performance.

Woods in North America

Woods fans have been sold in North America since 1957. The company's U.S. marketing and manufacturing group is located at the American Fan Company, Fairfield, Ohio. Woods Canadian Sales office is located in Toronto, Ontario.

Installations

Woods fans can be found in thousands of offices, educational, medical, manufacturing and public buildings – from the Mall of America in Minneapolis and the new Boston Garden to the San Francisco Airport and McCormick Place Convention Center in Chicago.

Service

Servicing Woods installations is a cooperative effort between the Woods engineering and field service staff. Field service groups are based in both Fairfield, Ohio (USA) and Colchester, England (UK).

Sales Offices

There are over 100 sales offices in over 50 major cities throughout North America.

JM AEROFOIL

Features

Motors

Motors are cast iron, pad mounted design suitable for horizontal through vertical operation. Motors are 3 phase premium efficiency totally enclosed air over design with 1.15 service factor. Standard efficiency motors are also available.

All efficiency testing and labeling is done in accordance with NEMA MG1-12.53 standard. Class F insulation with Class B rise is standard. Bearings are anti-friction grease lubricated ball or roller with 30,000 hour L-10 life minimum.

Electrical Supply and Starting

Standard motors are 3 phase/60 Hz/460V. Other voltages, 50 Hz, and 1 phase are also available.

Motors are available for across-the line, Wye-Delta, Part Winding, or Autotransformer starting.

Impellers

JM Aerofoil impellers have a unique aerodynamic blade section to optimize efficiency and performance while minimizing the noise. The thin sections obtained by high pressure die cast technique promote efficiency, strength and lower weight.

Impellers are comprised of high pressure die cast aluminium blades, hub and clampplate with fully adjustable pitch angle. All impeller components are X-ray examined to ASTM E-155 prior to machining to assure premium quality.

Impellers are precision balanced as a component and fan assembly is further balanced to minimize vibration levels.

Casings

JM fan casings are heavy gauge steel with spun flanges and continuously welded seams. They are manufactured to stringent tolerances for roundness assuring proper blade tip clearances required for optimal performance.



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Non-overloading

JM Aerofoil fans have a non-overloading characteristic. The peak power input occurs within normal operating range of pressures and is always exceeded by the motor rating.

Reversal of Airflow

JM Aerofoil fans can be reversed for emergency use. Reversal is obtained by interchanging electrical connections. If frequent reversals are necessary, contact the factory. A "truly reversible" impeller can be provided where equal volume in either airflow direction is required.

Accessories

- Motor and Impeller side guards
- Mounting Feet
- Horizontal or vertical suspension clips
- Companion Flanges.
- Flexible Connectors.
- Backdraft Dampers.
- Inlet Bells.
- Vibration Isolators.
- Outlet Cones, Silencers and Acoustical Diffusers

Finish

Parts are cleaned, primed and then finish painted with a premium grade enamel. Hot dipped galvanized, epoxy and other coatings are also available.

JM AEROFOIL

Forms of Running & Mounting



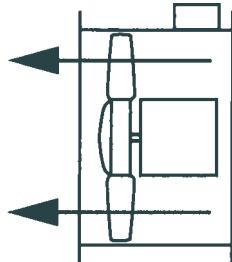
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The direction of airflow through the fan and the fan mounting position are defined as the "Form of running".

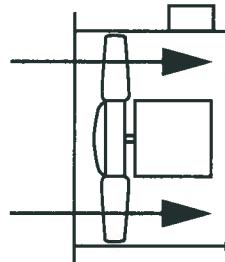
On each chart is shown the standard Form(s) of running for that particular fan, when mounted horizontally. For vertical operation add suffix "U" for airflow up, or suffix "D" for airflow down.

The standard Form of running offered will be Form B. When an alternative is available: see chart information, please request when the fan is ordered. Form of running is especially relevant when weatherproofed motors are required.

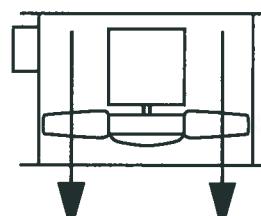
Arrows indicating correct rotation and direction of airflow are incorporated in the duct nameplate.



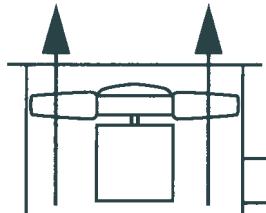
Form A



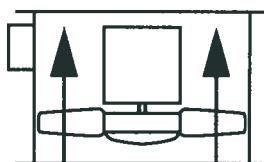
Form B (STANDARD)



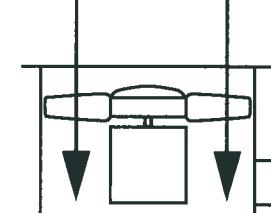
Form AD



Form AU



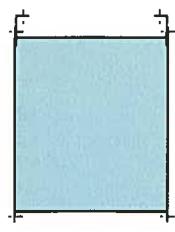
Form BU



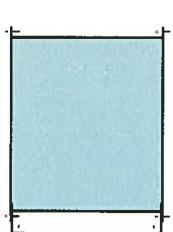
Form BD

Mounting

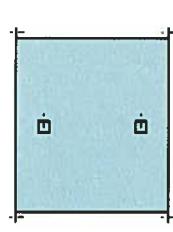
Horizontal- JM Aerofoil fans may be floor or ceiling mounted with optional mounting feet. They may also be ceiling suspended with optional horizontal suspension clips.



Mounting feet for ceiling suspension

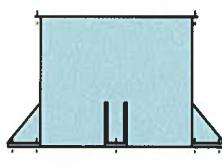


Mounting feet for floor mounting



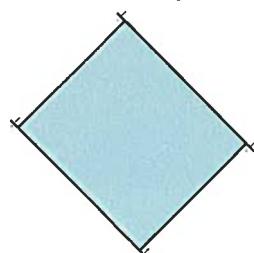
Horizontal angle suspension clips

Vertical- JM Aerofoil fans may be mounted for vertical up or down airflow. Optional vertical mounting clips are available.



Vertical suspension clips

Angular- JM Aerofoil fans may be angular mounted at any position. For special mounting clip arrangement, contact factory.



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Fan Specifications



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- 1. Fans** shall be manufactured by American Fan/Woods USA. Fan casings shall be made of heavy gauge steel with spun flanges and continuously welded seams. They shall be manufactured to stringent tolerance for roundness to assure proper blade tip clearance for optimal performance.
- 2. Motors** shall be cast iron frame, pad-mounted design suitable for horizontal through vertical operation. Motors shall be 3 phase premium efficiency (or 1 phase standard efficiency) totally enclosed air over design with 1.15 service factor. All motor efficiency testing and labeling shall be done in accordance with NEMA MG1-12.53 standard. Insulation shall be class F with class B rise. Bearings shall be grease lubricated anti-friction ball or roller type with 30,000 hours L-10 life minimum.
- 3. Impeller** shall consist of high pressure die cast aluminum airfoil blades, hub, and clampplate with fully adjustable blade pitch angle. All impeller components are to be X-ray examined to ASTM E-155 prior to machining to assure casting integrity and quality. Impellers shall be precision balanced as a component and then further balanced as a fan assembly to minimize vibration levels and assure smooth operation.
- 4. Motor supports** shall be heavy gauge steel and bolted to the fan casing and the motor to assure the concentricity of the motor to the fan casing.
- 5. Finish** of fan assembly shall consist of high-pressure cleaning, application of 1 coat of primer and 1 coat of enamel paint. Dry film thickness (DFT) shall be 2.5 mils minimum.
- 6. Fans shall be licensed to bear the AMCA Seal.** Ratings shall be based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.
- 7. Fan manufacturer shall be certified to ISO 9001** quality system standards.

Also Available...

JM Aerofoil Fans for Building Fire Safety / Smoke Exhaust

In any building, fire smoke can be the major killer. In the event of fire in densely populated buildings, such as schools, office buildings, department stores, shopping malls, sports arenas, and hotels, rapid, efficient smoke evacuation is vital to safe escape and minimization of damage.

American Fan/Woods USA has built and thoroughly tested JM Aerofoil fans specifically for this application. Fans are typically rated for 250 degrees C (482 degrees F) for one hour or 200 degrees C (392 degrees F) for two hours. Higher temperature ratings are available.

Fans for smoke exhaust can be provided for either duct mounting or as a roof mounted exhaust fan. Contact your local American Fan/Woods USA sales representative or the factory for more information.



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How to select a fan



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Procedure

1. Guide to fan performance curves

The fan performance curves are arranged in order of fan diameter, starting at 315mm (12.4"), up to 1120mm (44.1") diameter. For each fan diameter, they are arranged by speed, hub diameter, and number of blades.

Note: When attempting to make a fan selection, it will become obvious that, in most cases, several different fans will perform the required duty. The final fan selection should be based on the most critical factor(s) to the application, such as:

- Volume and pressure
- Fan diameter
- Power consumption (annual operating cost)
- Sound levels
- Initial cost

2. Required duty

Establish the volume flow (Q_v) and the total pressure (p_t) or static pressure (p_s) of an individual fan at standard air density (.075 lbs. per cubic foot).

3. Selection on individual fan performance curve charts

Plot the duty on the selected fan performance curve chart(s) to establish blade pitch angle, sound level, brakehorsepower, and motor size and rating.

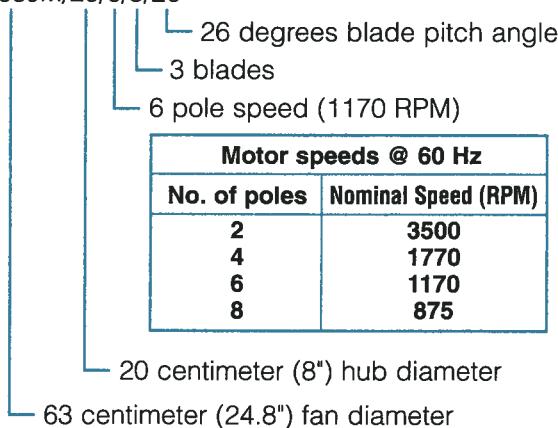
Selection Example

D Duty point required at standard air density .075 lbs. per cubic foot:

- 1 Volume flow, Q_v = 6000 CFM (cubic feet per minute)
- 2 Total pressure, p_t = 0.5 (inches water gauge)
- or 3 Static pressure, p_s = 0.3 (inches water gauge)

Selection:

Fan code: 63JM/20/6/3/26



- 4 Brakehorsepower at required duty at 26 degrees blade pitch angle=0.7

A 3/4 HP motor can be selected or you may prefer to select a 1 HP motor if performance requirements may increase in the future.

- 5 Overall inlet sound power level = 86 Lw (interpolated from surrounding levels).

- 6 In the example, the fan will have an open inlet to atmosphere, and a ducted discharge.

Therefore, use sound level corrections for "Inlet Levels" at 24-36 degrees. Duty point is below the gray shaded area on the fan performance curve so use the bottom row of numbers:

Freq.	63	125	250	500	1k	2k	4k	8k (Hz)
Lw	86	86	86	86	86	86	86	86
	-1	-10	-11	-17	-20	-22	-26	-29
dB	85	76	75	69	66	64	60	57

- 7 Correcting for open inlet (End Reflection Correction):

	-8	-4	-1	0	0	0	0	0
dB	77	72	74	69	66	64	60	57

Selection Summary:

Fan code: 63JM/20/6/3/26

Motor: 3/4 HP, 1170 RPM, 3 phase, 60 Hz,
460 Volt

Inlet sound power levels:

Freq.	63	125	250	500	1k	2k	4k	8k (Hz)
dB	77	72	74	69	66	64	60	57

Ordering the fan(s):

Example:

Fan code: 63JM/20/6/3/26

Motor: 3/4 HP, 1170 RPM, 3 phase, 60 Hz, 460 Volt, TEAO enclosure, 143P frame

Quantity: 3

Fan duty: 6000 CFM @ 0.5" total pressure @ 0.7 BHP

Accessories: Mounting feet

Inlet bell

Inlet screen

RIS vibration isolators

Outlet flex connector assembly



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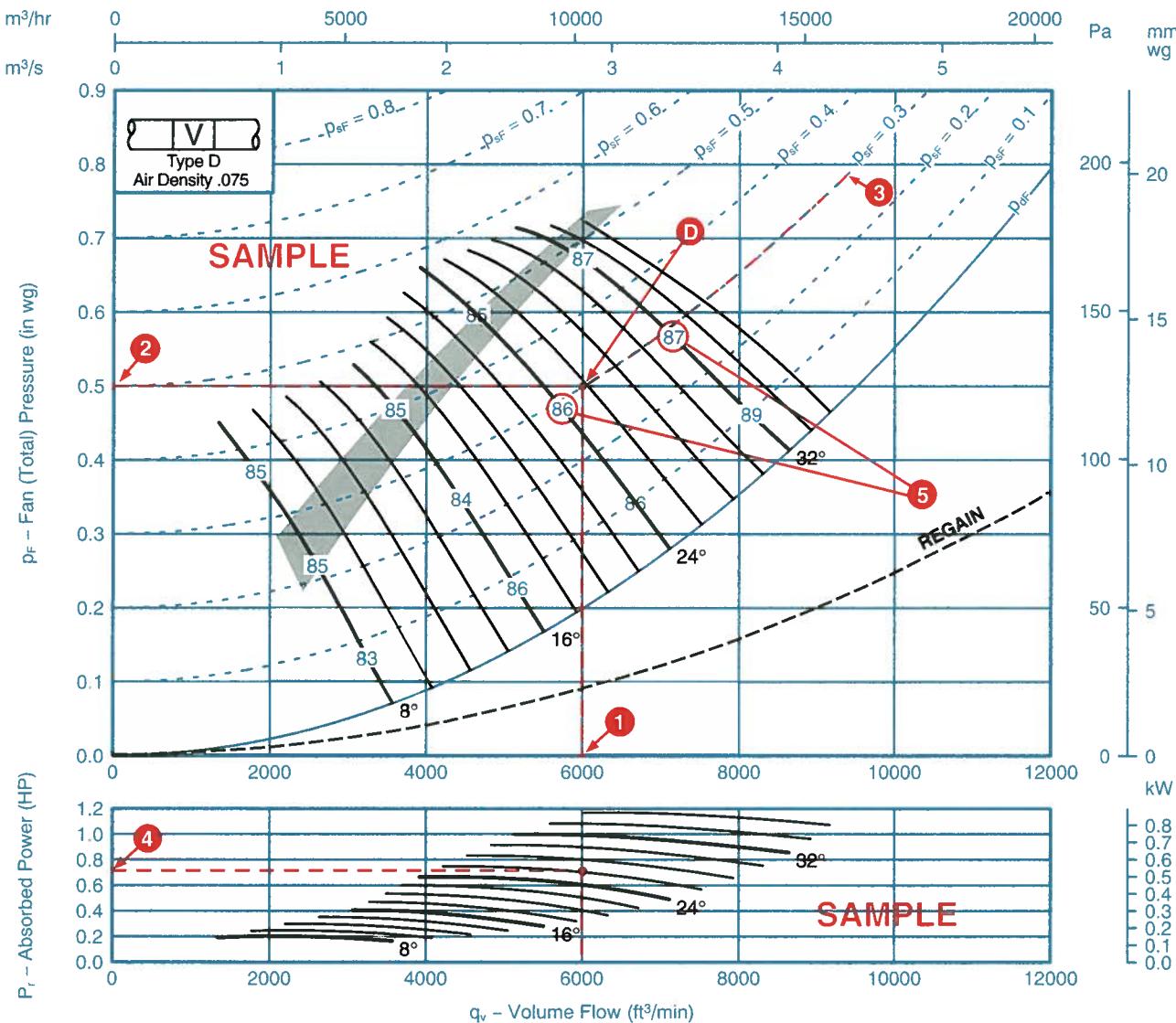
Fan Code: 63JM/20/6/3/
630 mm 1170 RPM
3 Blades 60 Hz



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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

Performance ratings do not include the effects of appurtenances in the airstream.



The AMCA Certified Ratings Seal applies to air performance ratings only.

Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-7	-10	-5	-6	-12	-17	-24	-31
	-2	-11	-8	-10	-13	-15	-20	-27
16°	-6	-10	-4	-8	-14	-16	-25	-31
	-1	-11	-11	-17	-19	-19	-24	-30
24-36°	-2	-9	-9	-14	-16	-19	-22	-26
	-1	-10	-11	-17	-20	-22	-26	-29

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-5	-10	-5	-5	-12	-17	-23	-28
	-1	-11	-8	-10	-13	-14	-19	-25
16°	-4	-10	-4	-8	-14	-16	-24	-28
	0	-11	-11	-17	-19	-19	-23	-28
24-36°	-1	-9	-9	-14	-16	-19	-20	-24
	0	-10	-11	-16	-20	-22	-24	-27

SK10305

6

7

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0

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Installation Recommendations



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A sharp-edged fan inlet orifice reduces fan performance.

Fig. 1

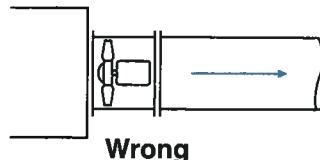
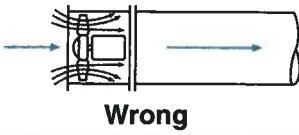
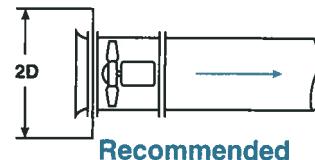


Fig. 3



A flanged fan inlet starves the impeller blade tips of air reducing performance and increasing noise.

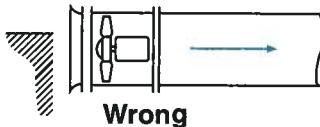
Fig. 2



Fit a bell-mouth inlet to the fan.

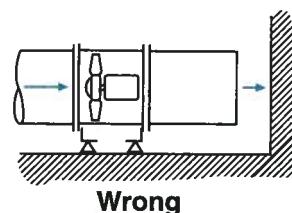
Avoid obstructions close to fan inlets. Part of impeller is starved of air.

Fig. 5



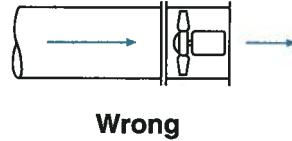
Avoid obstruction close to the fan outlet.

Fig. 7



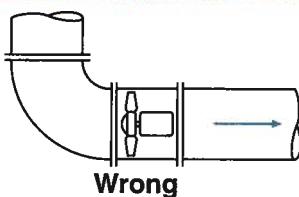
Avoid fan terminating the discharge end of a system.

Fig. 9



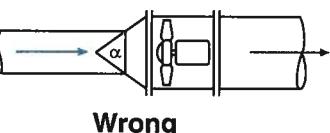
Fan performance suffers and noise is increased if a 90° circular section bend of small radius is used.

Fig. 11



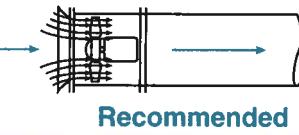
Do not use an expander of 30° or more immediately before or after a fan.

Fig. 13



Flexible connectors should not be slack, as this will cause "necking", which will starve the impeller blade tips of air, reduce fan performance, and increase noise.

Fig. 4



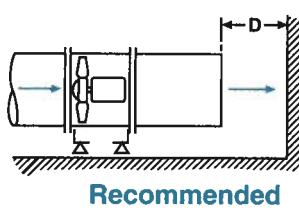
A bellmouth inlet guides air into the impeller blade tips.

Fig. 6



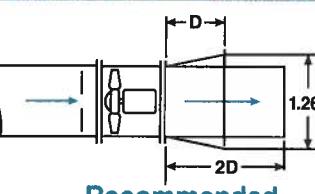
Allow a space of at least one diam. (D) at the fan inlet.

Fig. 8



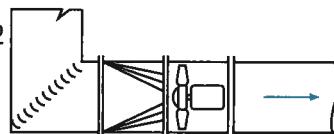
Allow a space of at least the fan diam. (D) at the fan outlet.

Fig. 10



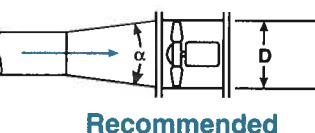
Fit a duct length of 2D or an outlet expander D x 1.26 after the fan at the discharge end. Extra ducting after the expander helps even more. See charts.

Fig. 12



Use a square bend with short chord turning vanes. This is also preferable when air flow is in the opposite direction.

Fig. 14



Ideally an expander immediately before a fan should not be more than 15°.

Flex Connectors

Fig. 19

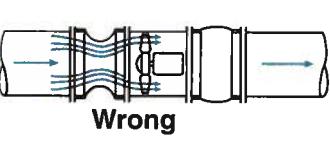
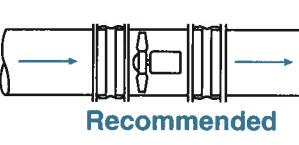


Fig. 20



Flexible connectors should be just long enough for mechanical isolation and should be taut.



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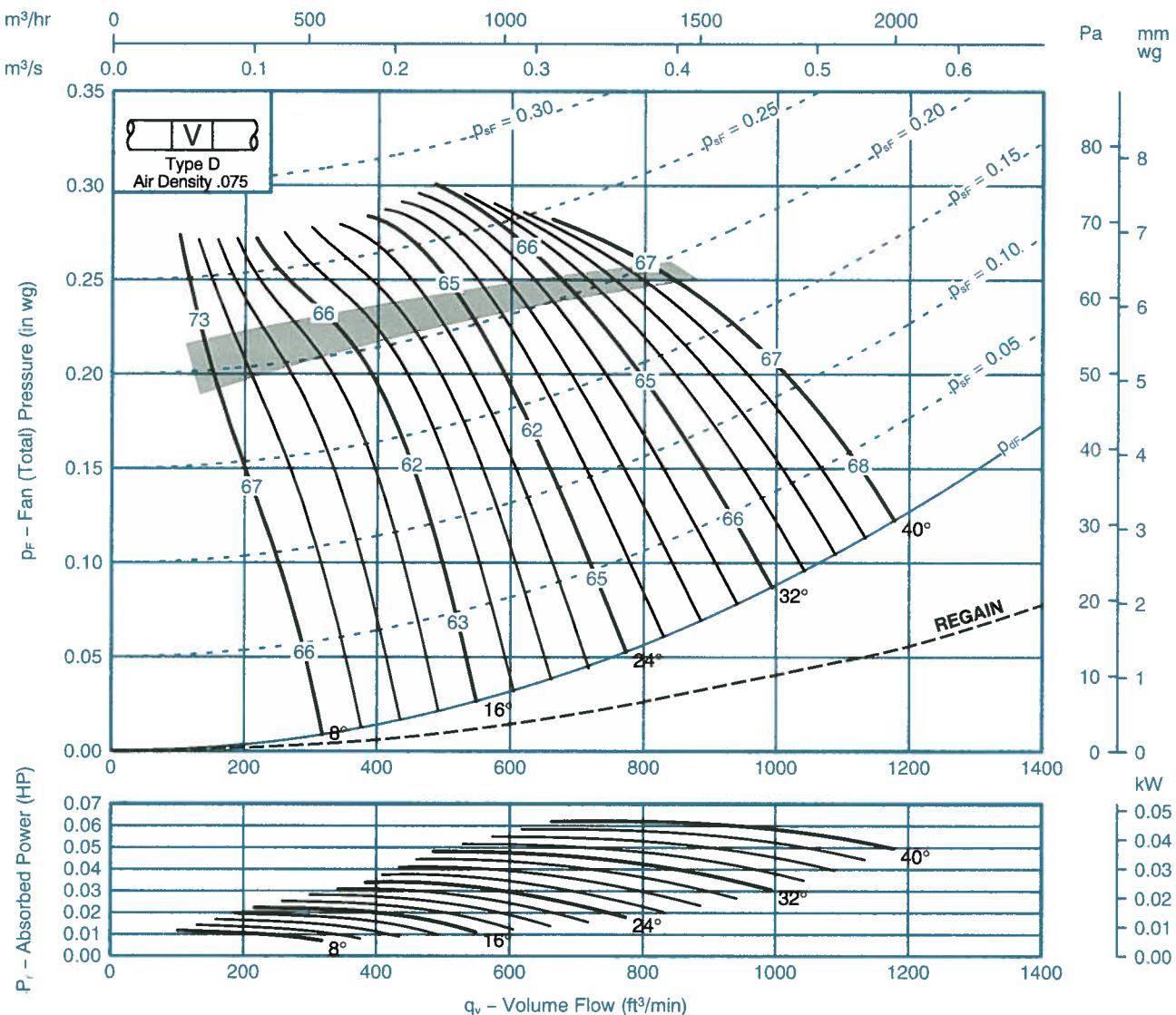
Fan Code: 31 JM/16/6/5/...
315 mm 1170 RPM
5 Blades 60 Hz



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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-4	-5	-6	-12	-19	-26	-31	-39
	-10	-8	-4	-6	-13	-20	-27	-36
16°	-7	-4	-6	-10	-15	-23	-29	-37
	-6	-5	-6	-9	-12	-17	-22	-28
24-40°	-3	-6	-9	-13	-17	-21	-25	-31
	-4	-5	-8	-10	-14	-18	-24	-30

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-2	-3	-6	-12	-19	-25	-31	-39
	-8	-5	-4	-6	-13	-20	-26	-34
16°	-4	-2	-6	-10	-15	-22	-29	-37
	-64	-3	-6	-9	-12	-16	-22	-28
24-40°	-1	-5	-9	-12	-16	-19	-23	-29
	-2	-2	-8	-10	-14	-18	-23	-29

SK10262

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-14	-8	-4	-1	0	0	0	0



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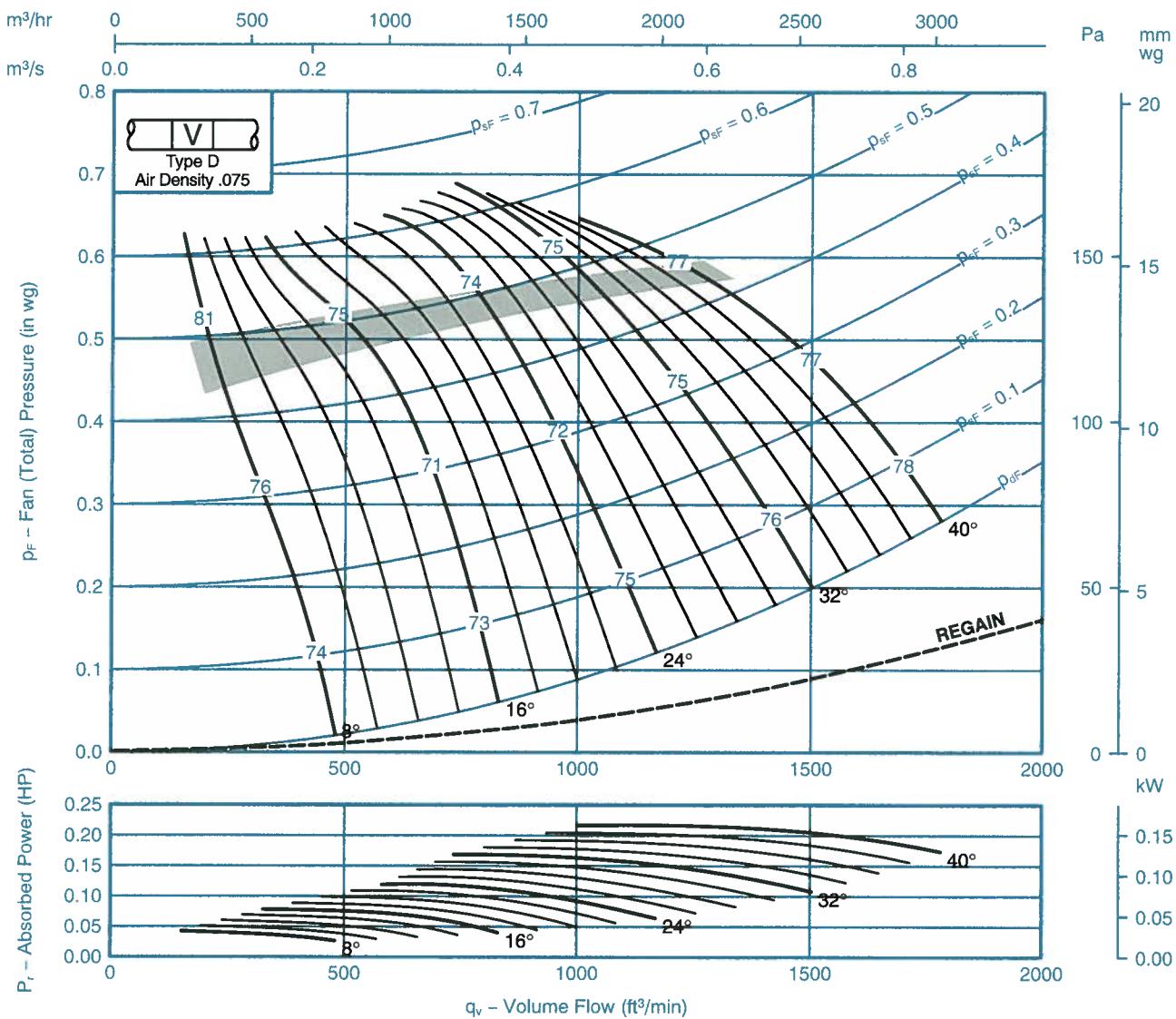
Fan Code: 31JM/16/4/5/
315 mm 1770 RPM
5 Blades 60 Hz



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Inlet Levels									
Pitch Angle	Octave Band Center Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
8°	-9	-4	-6	-7	-16	-22	-29	-35	
	-13	-7	-9	-3	-9	-16	-23	-31	
16°	-12	-4	-8	-6	-13	-19	-26	-32	
	-12	-4	-8	-7	-11	-14	-19	-25	
24-40°	-4	-4	-10	-11	-16	-18	-24	-28	
	-8	-3	-9	-9	-13	-16	-22	-27	

Outlet Levels									
Pitch Angle	Octave Band Center Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
8°	-6	-2	-4	-7	-15	-21	-29	-34	
	-12	-5	-8	-3	-9	-16	-22	-29	
16°	-10	-1	-7	-6	-12	-17	-26	-32	
	-10	-1	-7	-7	-10	-13	-19	-25	
24-40°	-3	-3	-9	-10	-15	-17	-22	-26	
	-6	0	-8	-9	-13	-16	-21	-26	

SK10263

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-14	-8	-4	-1	0	0	0	0



JM AEROFOIL

Fan Code: 31JM/16/2/5/...

315 mm 3500 RPM

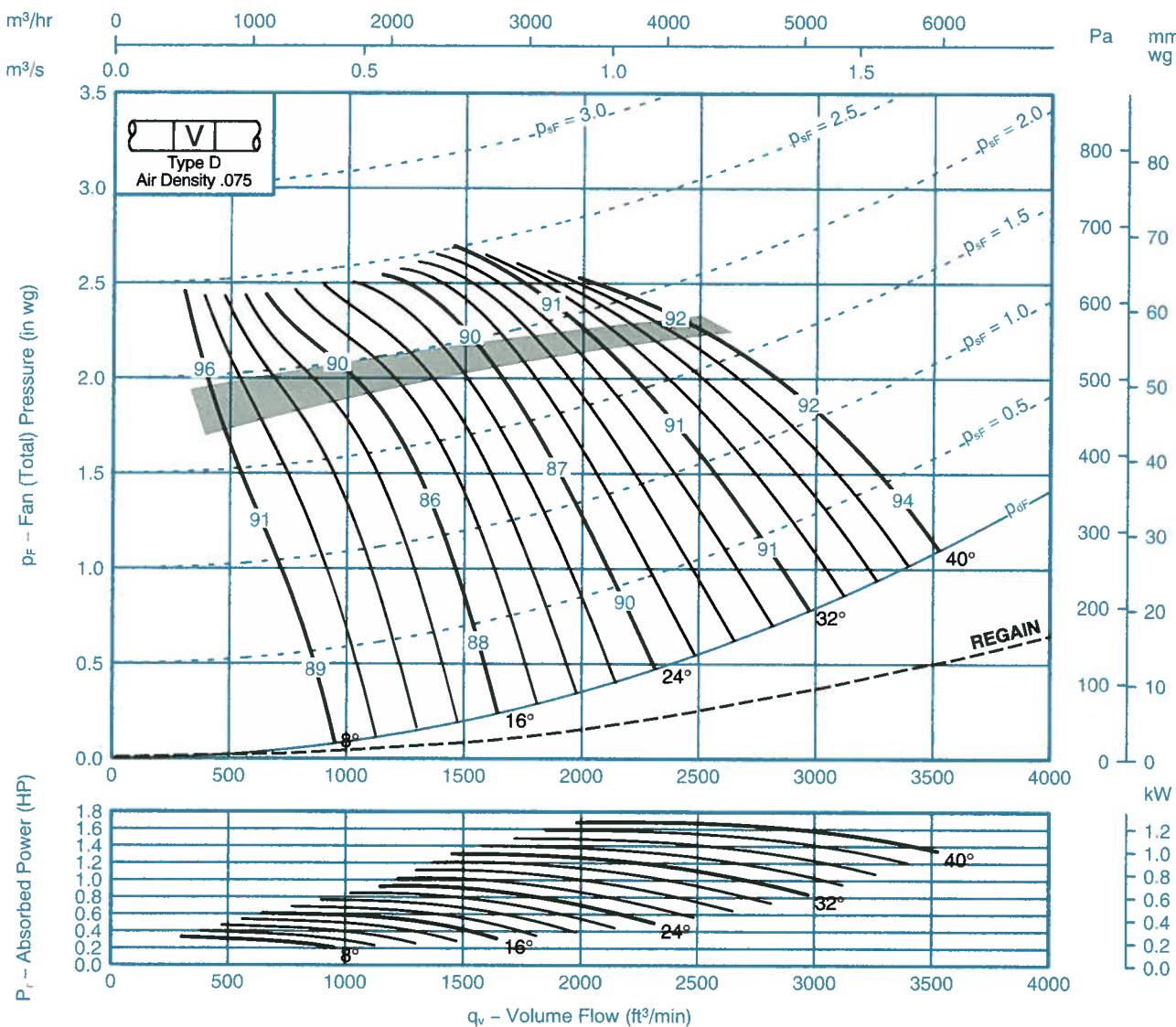
5 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
PH: (513) 874-2400 FAX: (513) 870-6249

Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-9	-5	-6	-7	-16	-22	-29
	-16	-13	-8	-9	-3	-9	-16	-23
16°	-15	-12	-4	-8	-6	-13	-19	-26
	-15	-12	-4	-8	-7	-11	-14	-20
24-40°	-9	-5	-5	-10	-11	-17	-19	-25
	-9	-8	-4	-10	-10	-14	-17	-22

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-8	-3	-4	-7	-15	-22	-29
	-14	-13	-5	-8	-3	-9	-15	-21
16°	-13	-12	-1	-7	-5	-12	-19	-26
	-13	-12	-2	-7	-6	-10	-14	-20
24-40°	-7	-5	-4	-9	-10	-15	-17	-23
	-7	-8	-1	-8	-10	-13	-16	-21

SK10264

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-14	-8	-4	-1	0	0	0	0



JM AEROFOIL

Fan Code: 35JM/16/6/5/...

355 mm 1170 RPM

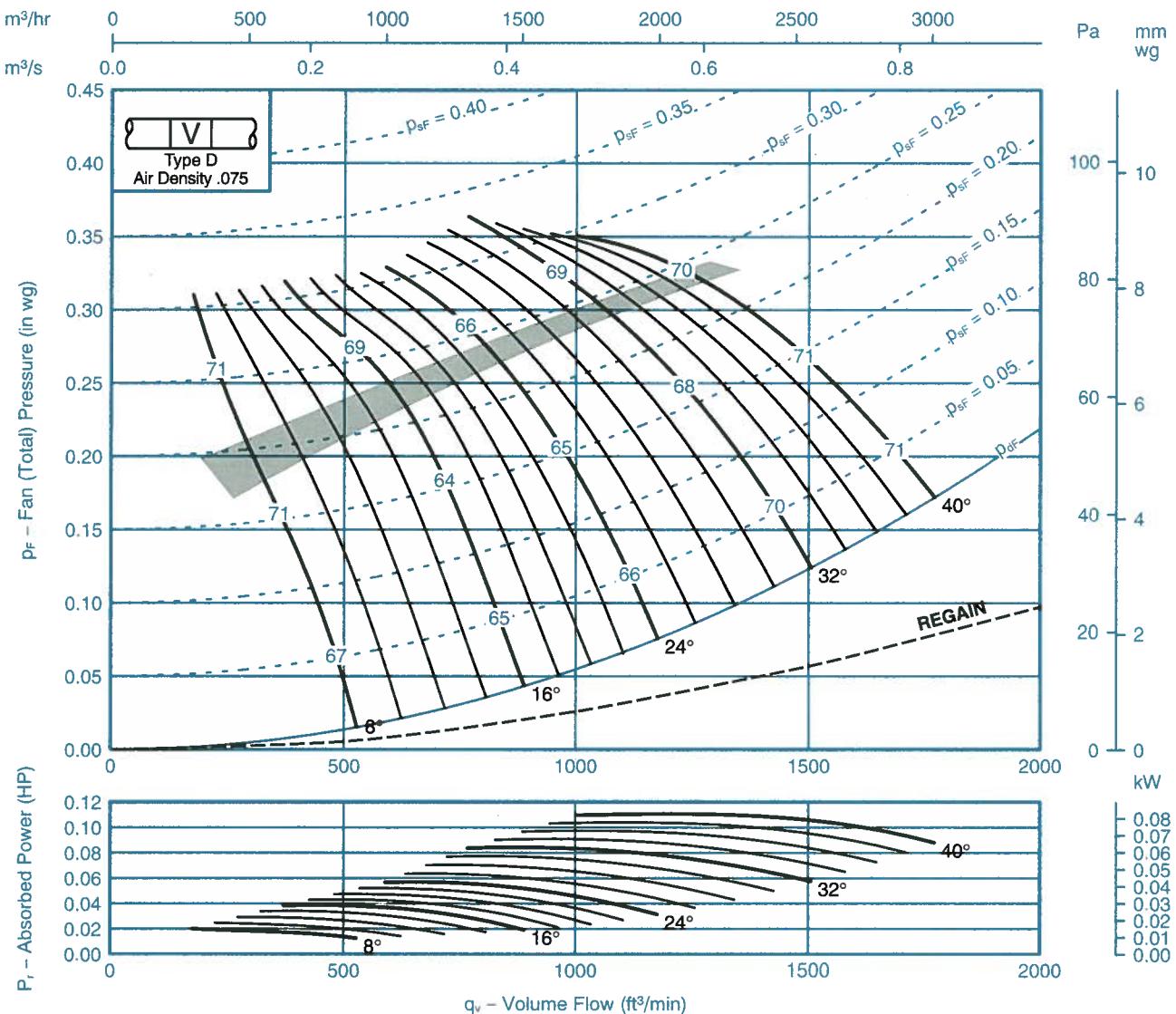
5 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

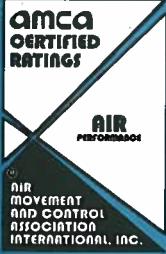
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-7	-6	-4	-8	-16	-23	-30	-38
	-12	-10	-4	-5	-12	-18	-25	-32
16°	-8	-6	-4	-9	-13	-18	-23	-28
	-7	-7	-6	-7	-10	-14	-19	-24
24-40°	-4	-7	-7	-9	-15	-19	-24	-30
	-5	-6	-6	-9	-13	-17	-23	-28

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-4	-4	-4	-8	-16	-22	-30	-38
	-10	-8	-4	-5	-12	-18	-23	-30
16°	-5	-4	-4	-9	-12	-17	-23	-28
	-5	-5	-6	-7	-10	-13	-19	-24
24-40°	-2	-6	-7	-8	-14	-18	-23	-28
	-3	-3	-6	-9	-13	-17	-22	-27

SK10265

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-12	-7	-4	-1	0	0	0	0



JM AEROFOIL

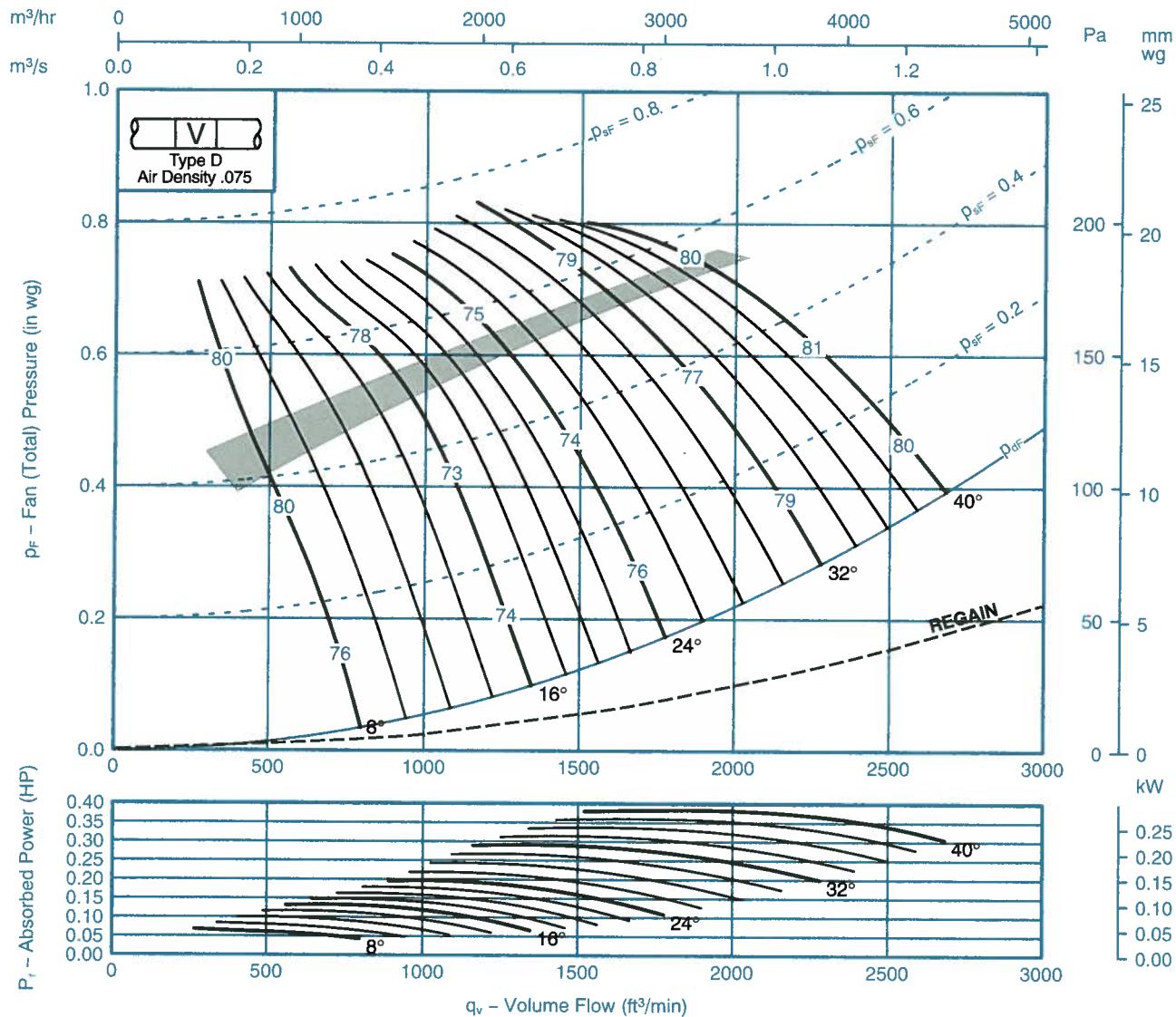
Fan Code: 35JM/16/4/5/
355 mm 1770 RPM
5 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-6	-6	-5	-12	-19	-26	-33
	-14	-10	-8	-3	-8	-15	-20	-28
16°	-13	-5	-7	-5	-12	-14	-20	-25
	-11	-5	-7	-6	-9	-12	-16	-21
24-40°	-6	-5	-8	-8	-13	-17	-22	-28
	-8	-4	-8	-7	-12	-15	-20	-26

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-4	-5	-5	-11	-19	-26	-33
	-13	-7	-8	-3	-8	-15	-19	-26
16°	-11	-2	-6	-5	-12	-13	-20	-25
	-10	-3	-7	-6	-9	-12	-16	-22
24-40°	-4	-4	-8	-7	-7	-12	-16	-26
	-6	-2	-7	-7	-12	-15	-19	-25

SK10266

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-12	-7	-4	-1	0	0	0	0



JM AEROFOIL

Fan Code: 35JM/16/2/5...

355 mm 3500 RPM

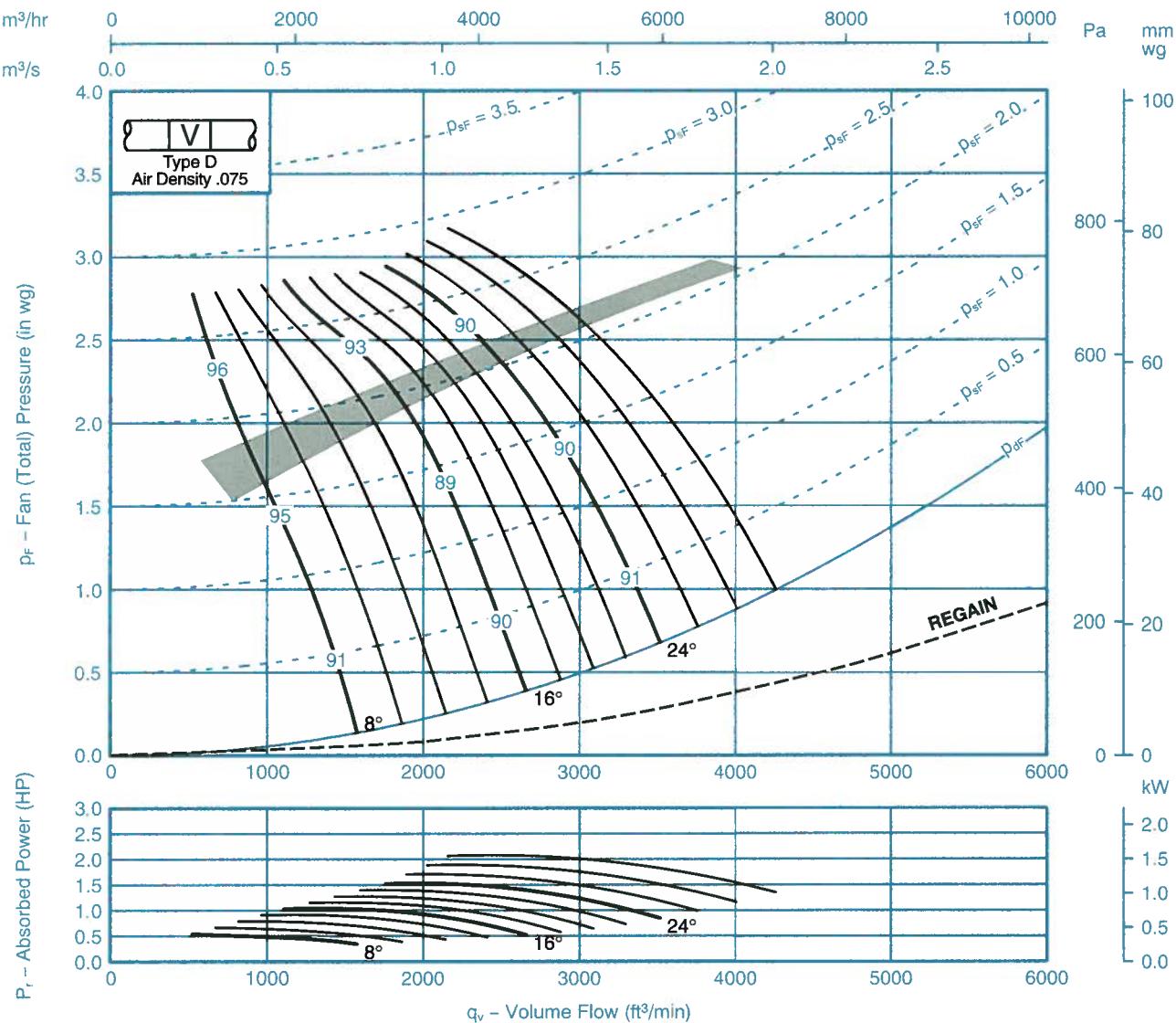
5 Blades 60 Hz



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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-11	-6	-6	-5	-12	-20	-26
	-17	-15	-10	-8	-3	-8	-15	-21
16°	-10	-13	-6	-7	-5	-13	-15	-21
	-10	-12	-6	-8	-7	-10	-13	-16
24-30°	-8	-6	-6	-9	-9	-14	-18	-23
	-7	-9	-5	-9	-8	-13	-16	-21

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-10	-4	-5	-5	-11	-20	-26
	-15	-15	-8	-7	-3	-8	-14	-18
16°	-9	-13	-3	-6	-4	-12	-15	-21
	-8	-12	-3	-7	-6	-9	-13	-16
24-30°	-7	-6	-5	-7	-8	-12	-16	-21
	-5	-8	-3	-8	-8	-13	-15	-20

SK10267

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-12	-7	-4	-1	0	0	0	0



JM AEROFOIL

Fan Code: 35JM/20/2/6...

355 mm 3500 RPM

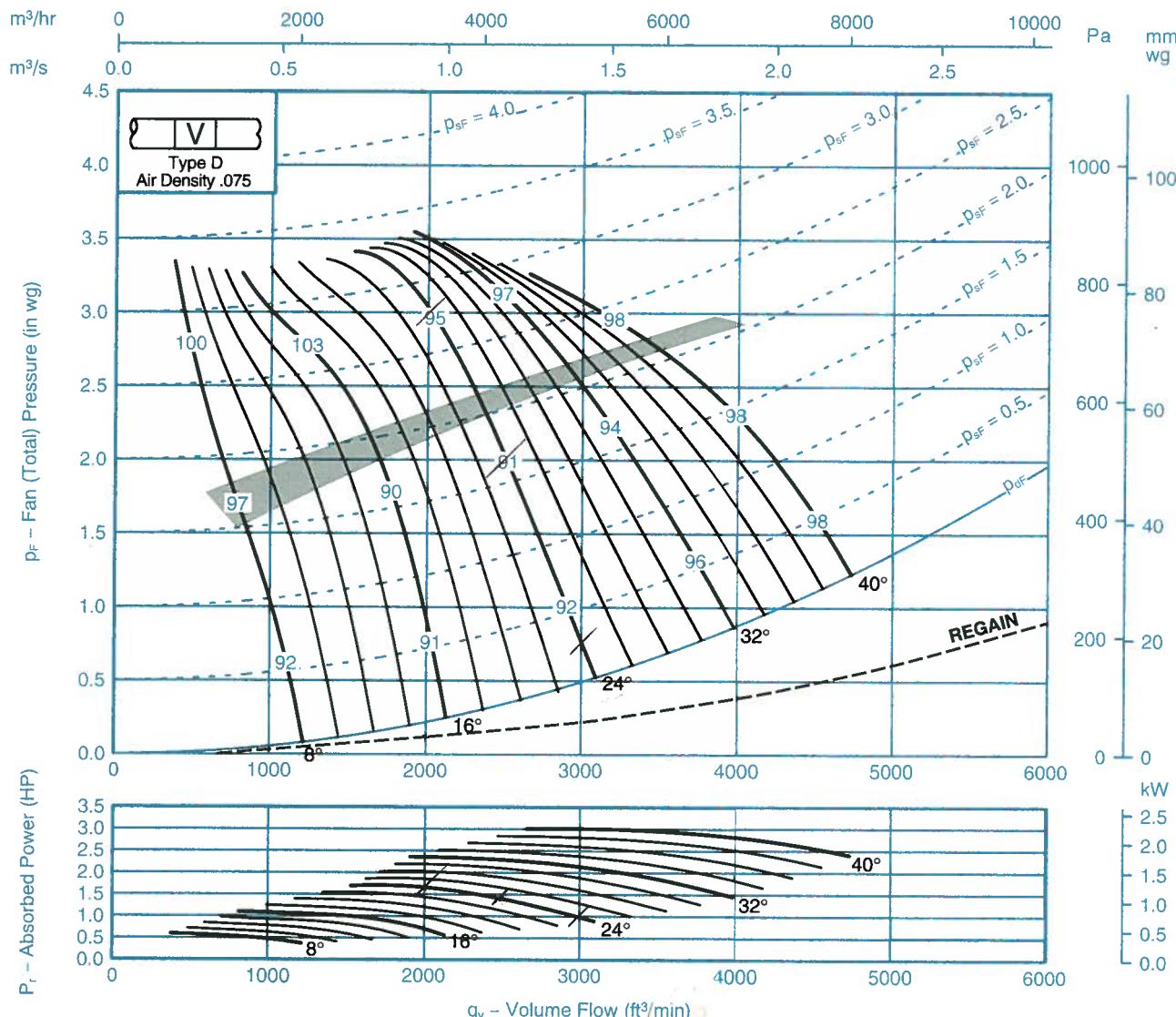
6 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-11	-6	-6	-5	-12	-20	-26
	-17	-15	-10	-8	-3	-8	-15	-21
16°	-10	-13	-6	-7	-5	-13	-15	-21
	-10	-12	-6	-8	-7	-10	-13	-16
24-40°	-8	-6	-6	-9	-9	-14	-18	-23
	-7	-9	-5	-9	-8	-13	-16	-21

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-10	-4	-5	-5	-11	-20	-26
	-15	-15	-8	-7	-3	-8	-14	-18
16°	-9	-13	-3	-6	-4	-12	-15	-21
	-8	-12	-3	-7	-6	-9	-13	-16
24-40°	-7	-6	-5	-7	-8	-12	-16	-21
	-5	-8	-3	-8	-8	-13	-15	-20

SK10629

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-12	-7	-4	-1	0	0	0	0



JM AEROFOIL

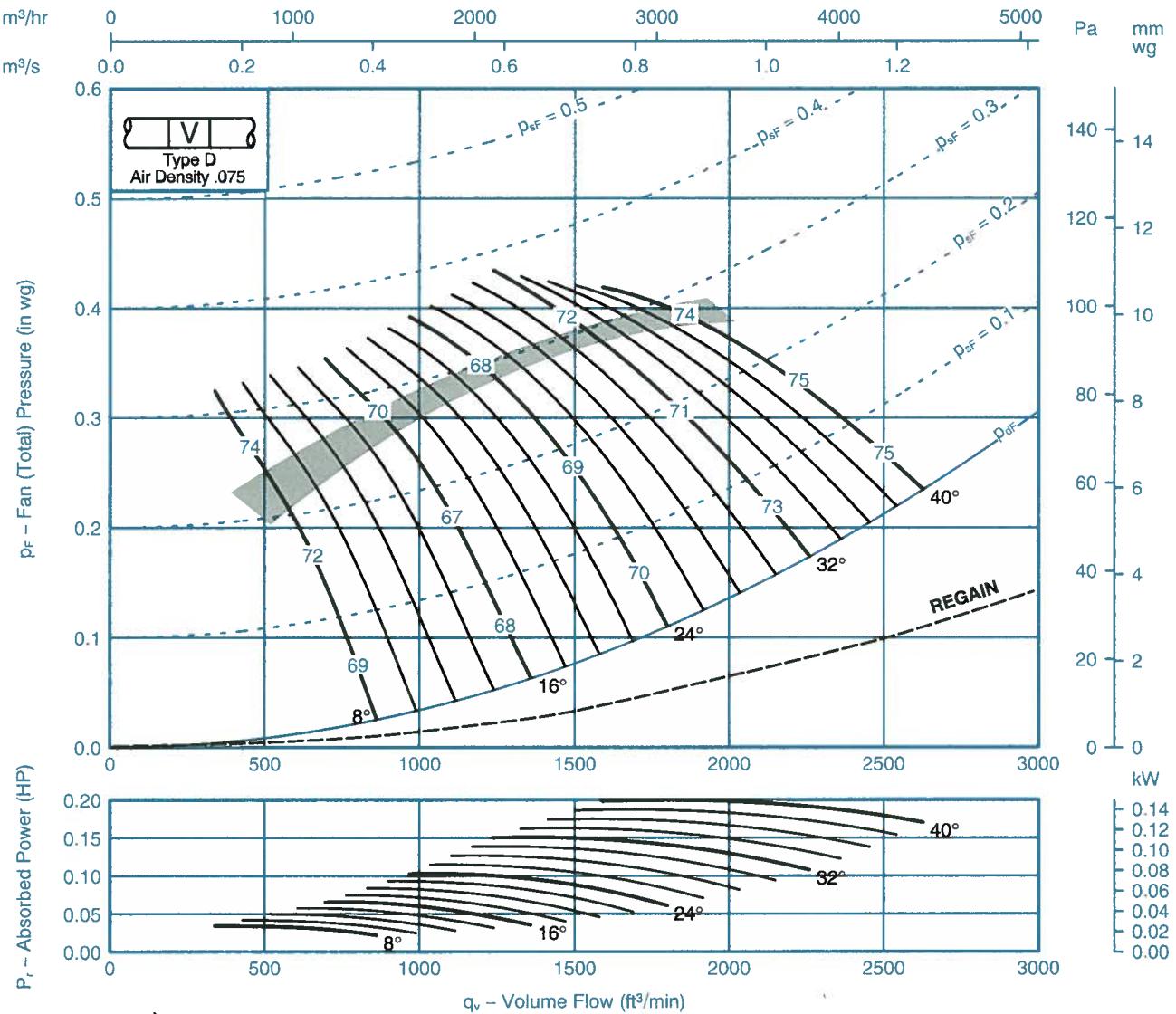
Fan Code: 40JM/16/6/5/...
400 mm 1170 RPM
5 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-6	-5	-6	-14	-21	-28	-36
	-12	-8	-6	-5	-10	-15	-21	-28
16°	-7	-5	-7	-8	-11	-16	-22	-27
	-8	-5	-7	-8	-10	-13	-18	-22
24-40°	-4	-7	-8	-10	-14	-17	-22	-27
	-5	-5	-7	-9	-13	-16	-21	-26

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-5	-4	-5	-6	-13	-20	-28	-36
	-10	-6	-6	-5	-10	-15	-20	-26
16°	-4	-3	-7	-8	-11	-15	-22	-27
	-5	-2	-7	-8	-10	-13	-18	-22
24-40°	-2	-5	-8	-9	-13	-15	-20	-25
	-2	-3	-7	-9	-13	-16	-20	-25

SK10268

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-11	-6	-3	-1	0	0	0	0



JM AEROFOIL

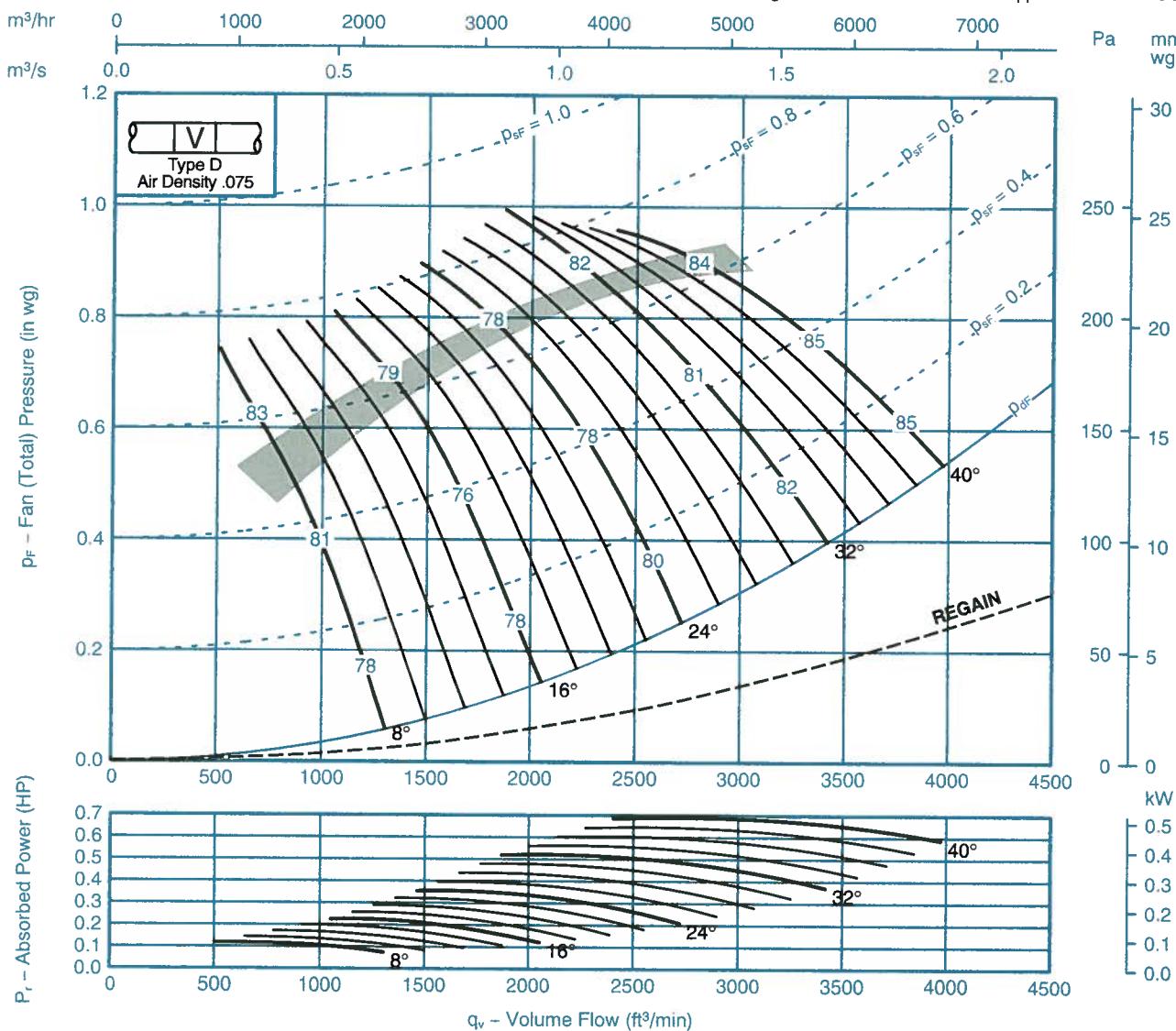
Fan Code: 40JM/16/4/5/
400 mm 1770 RPM
5 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-6	-7	-5	-10	-17	-24	-31
	-14	-8	-8	-5	-6	-12	-17	-24
16°	-11	-4	-7	-7	-10	-13	-19	-25
	-11	-4	-8	-8	-10	-12	-15	-20
24-40°	-5	-5	-9	-10	-13	-16	-20	-25
	-7	-4	-8	-9	-12	-15	-18	-24

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-4	-6	-5	-10	-16	-24	-31
	-12	-6	-8	-5	-6	-12	-16	-22
16°	-10	-1	-6	-7	-9	-12	-19	-25
	-9	-1	-7	-8	-9	-11	-15	-20
24-40°	-4	-3	-8	-9	-12	-14	-18	-23
	-5	-1	-7	-9	-12	-15	-17	-23

SK10269

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-11	-6	-3	-1	0	0	0	0



JM AEROFOIL

Fan Code: 40JM/16/2/5/...

400 mm 3500 RPM

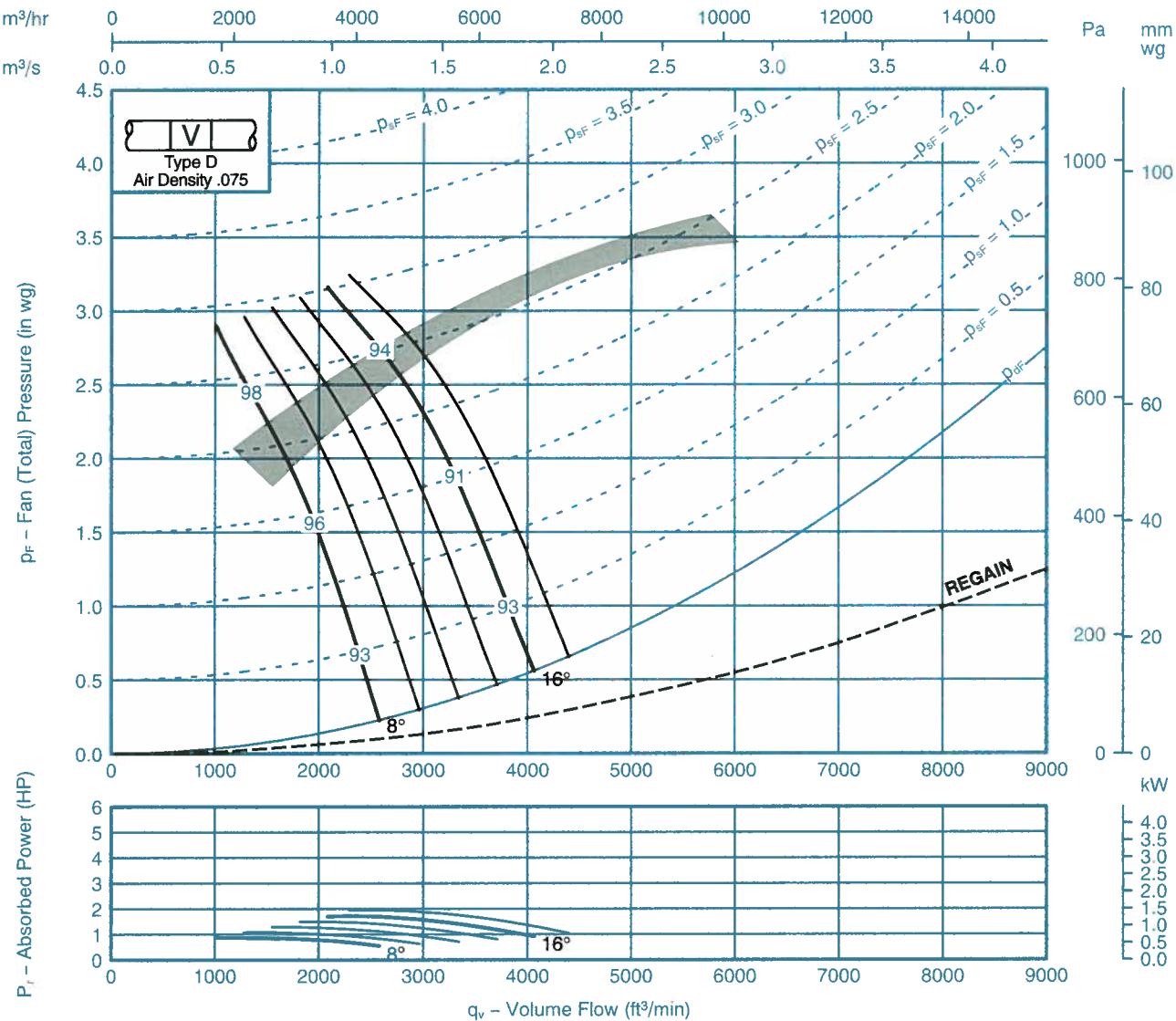
5 Blades 60 Hz



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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-11	-7	-8	-5	-10	-17	-25
	-17	-14	-9	-9	-5	-7	-13	-18
$16-18^\circ$	-12	-12	-5	-8	-8	-11	-14	-19
	-12	-12	-5	-8	-9	-10	-12	-16

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-10	-4	-6	-5	-9	-17	-24
	-14	-14	-6	-8	-5	-6	-11	-15
$16-18^\circ$	-10	-11	-2	-6	-7	-10	-13	-19
	-10	-11	-2	-7	-8	-9	-12	-15

SK10270

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-11	-6	-3	-1	0	0	0	0



JM AEROFOIL

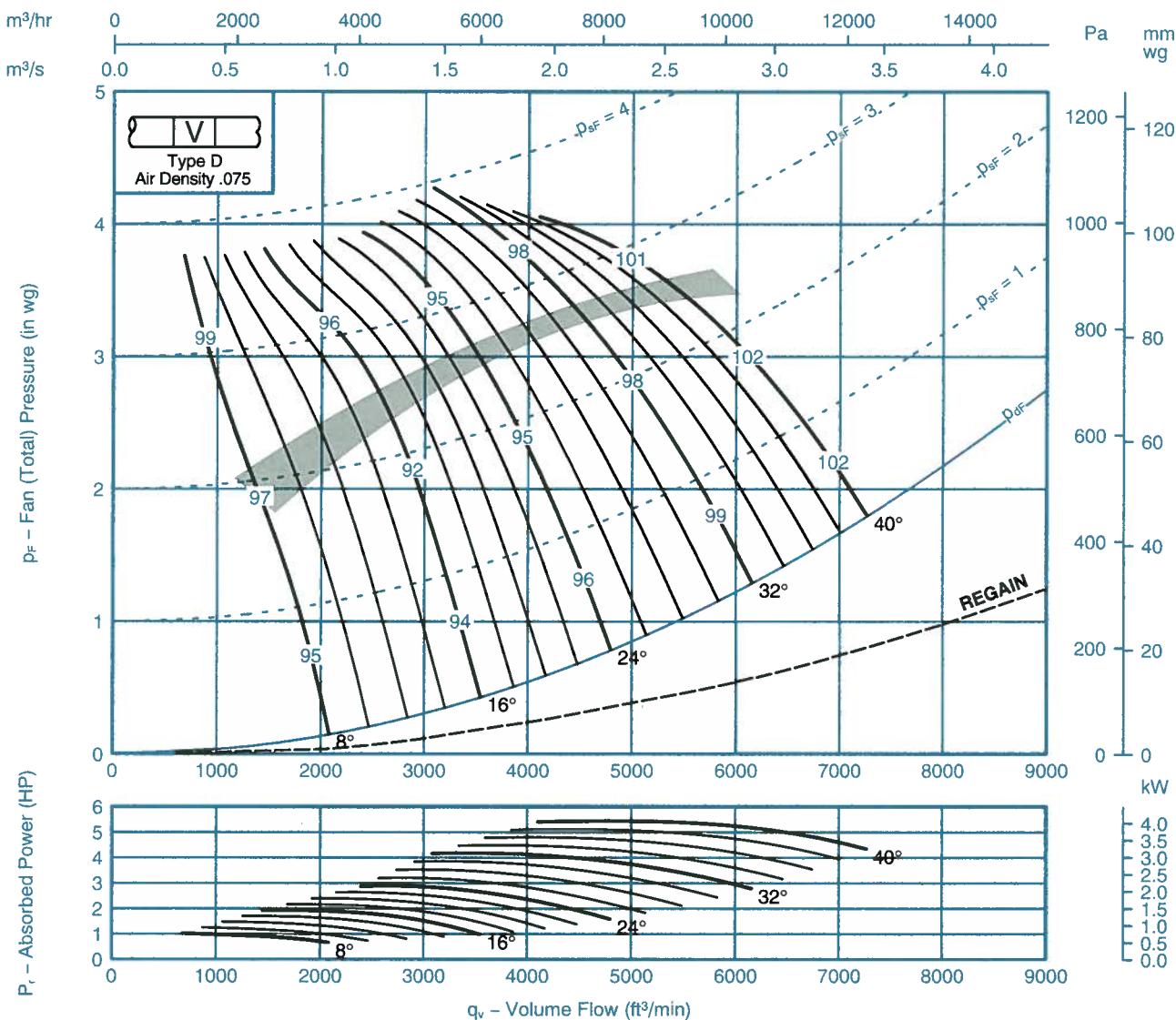
Fan Code: 40JM/20/2/6/...
400 mm 3500 RPM
6 Blades 60 Hz

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-11	-7	-8	-5	-10	-17	-25
	-17	-14	-9	-9	-5	-7	-13	-18
16°	-12	-12	-5	-8	-8	-11	-14	-19
	-12	-12	-5	-8	-9	-10	-12	-16
24-40°	-9	-6	-6	-9	-11	-14	-17	-21
	-9	-8	-5	-9	-10	-13	-16	-19

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-10	-4	-6	-5	-9	-17	-24
	-14	-14	-6	-8	-5	-6	-11	-15
16°	-10	-11	-2	-6	-7	-10	-13	-19
	-10	-11	-2	-7	-8	-9	-12	-15
24-40°	-7	-5	-4	-8	-10	-12	-15	-18
	-6	-7	-2	-8	-10	-12	-15	18

SK10630

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-11	-6	-3	-1	0	0	0	0



JM AEROFOIL

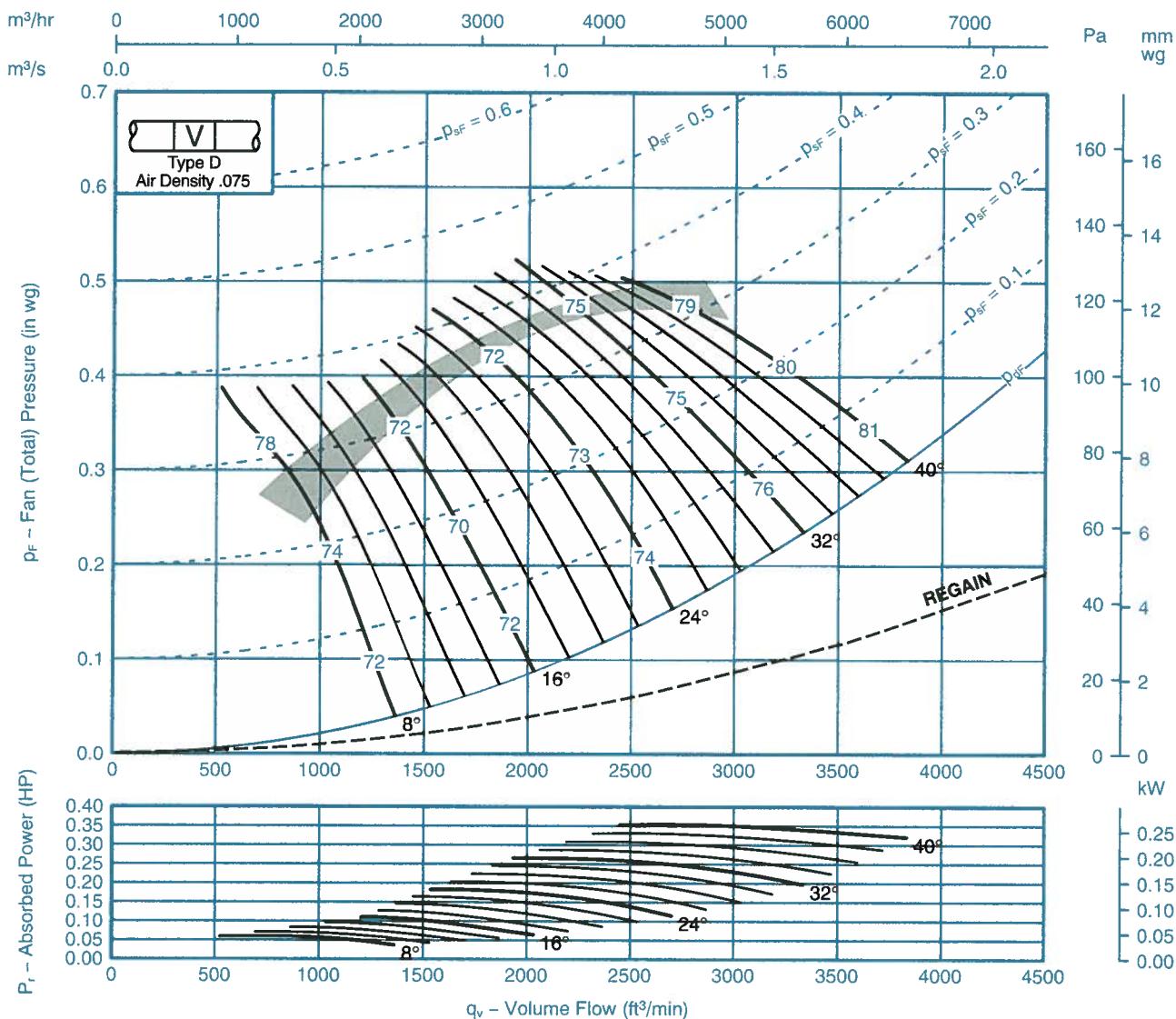
Fan Code: 45JM/16/6/5/
450 mm 1170 RPM
5 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-9	-6	-6	-5	-11	-19	-26	-34
	-12	-7	-8	-5	-8	-12	-18	-25
16°	-7	-5	-10	-6	-10	-15	-22	-28
	-8	-3	-9	-10	-11	-13	-17	-20
24-40°	-4	-6	-10	-11	-13	-15	-19	-23
	-5	-5	-9	-10	-13	-15	-20	-24

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-4	-6	-5	-11	-18	-25	-32
	-12	-6	-8	-5	-8	-11	-18	-23
16°	-6	-5	-10	-6	-10	-15	-21	-26
	-8	-3	-9	-10	-11	-13	-16	-18
24-40°	-2	-6	-10	-11	-13	-15	-18	-22
	-4	-4	-9	-10	-13	-15	-19	-22

SK10272

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0



JM AEROFOIL

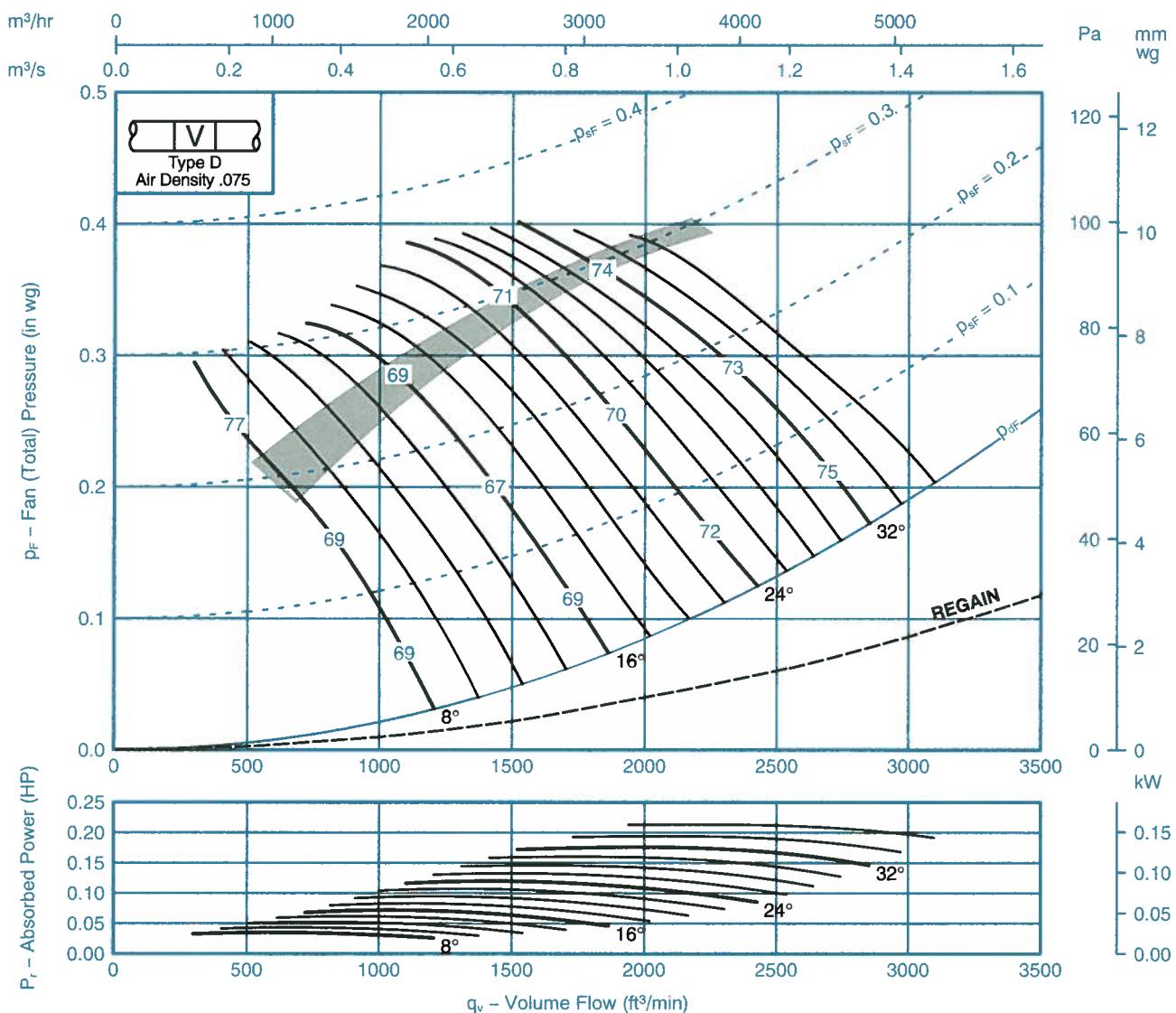
Fan Code: 45JM/20/6/3/
450 mm 1170 RPM
3 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-12	-4	-4	-11	-21	-28	-38
	-10	-9	-5	-6	-9	-13	-16	-21
16°	-7	-6	-5	-9	-13	-17	-21	-27
	-6	-8	-6	-8	-11	-15	-19	-24
24-36°	-4	-6	-7	-11	-13	-17	-20	-24
	-4	-7	-7	-10	-12	-17	-21	-26

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-12	-4	-4	-11	-20	-27	-36
	-7	-9	-5	-6	-9	-13	-15	-19
16°	-6	-6	-5	-9	-13	-16	-21	-26
	-3	-8	-6	-8	-11	-15	-18	-22
24-36°	-2	-6	-7	-10	-12	-16	-18	-21
	-1	-7	-7	-10	-12	-16	-20	-24

SK10273

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0



JM AEROFOIL

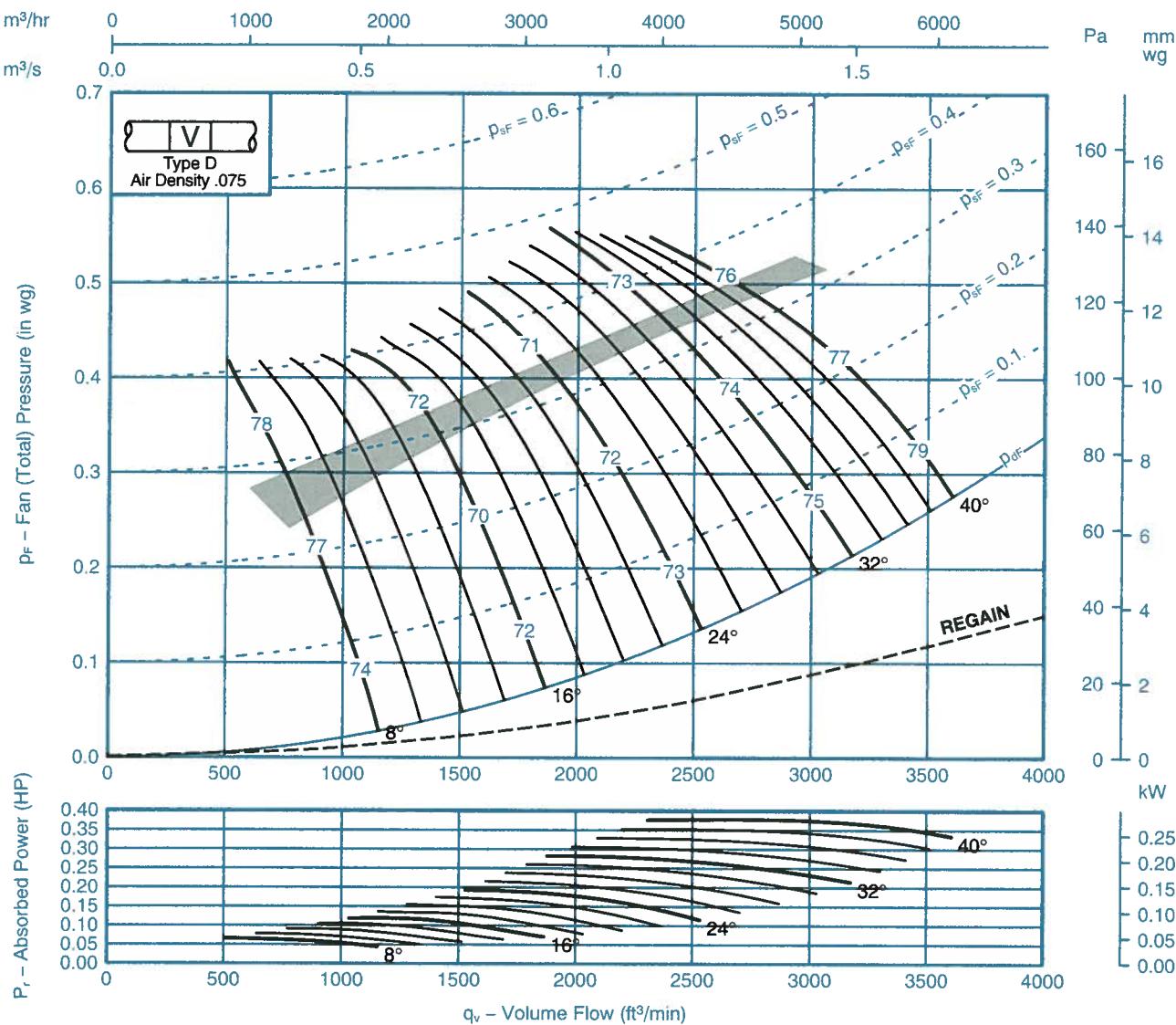
Fan Code: 45JM/20/6/6/
450 mm 1170 RPM
6 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-11	-4	-4	-11	-20	-28	-38
	-16	-11	-5	-4	-8	-15	-19	-27
16°	-11	-6	-5	-8	-10	-14	-20	-25
	-13	-7	-5	-7	-9	-12	-16	-19
24-40°	-6	-6	-6	-9	-12	-16	-20	-25
	-8	-6	-6	-8	-11	-15	-19	-23

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12	-9	-4	-4	-11	-19	-27	-36
	-15	-9	-5	-4	-8	-14	-18	-25
16°	-10	-4	-4	-8	-10	-14	-20	-24
	-12	-5	-5	-7	-9	-12	-16	-19
24-40°	-5	-5	-5	-9	-11	-15	-18	-23
	-5	-3	-6	-8	-11	-15	-18	-22

SK10274

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0



JM AEROFOIL

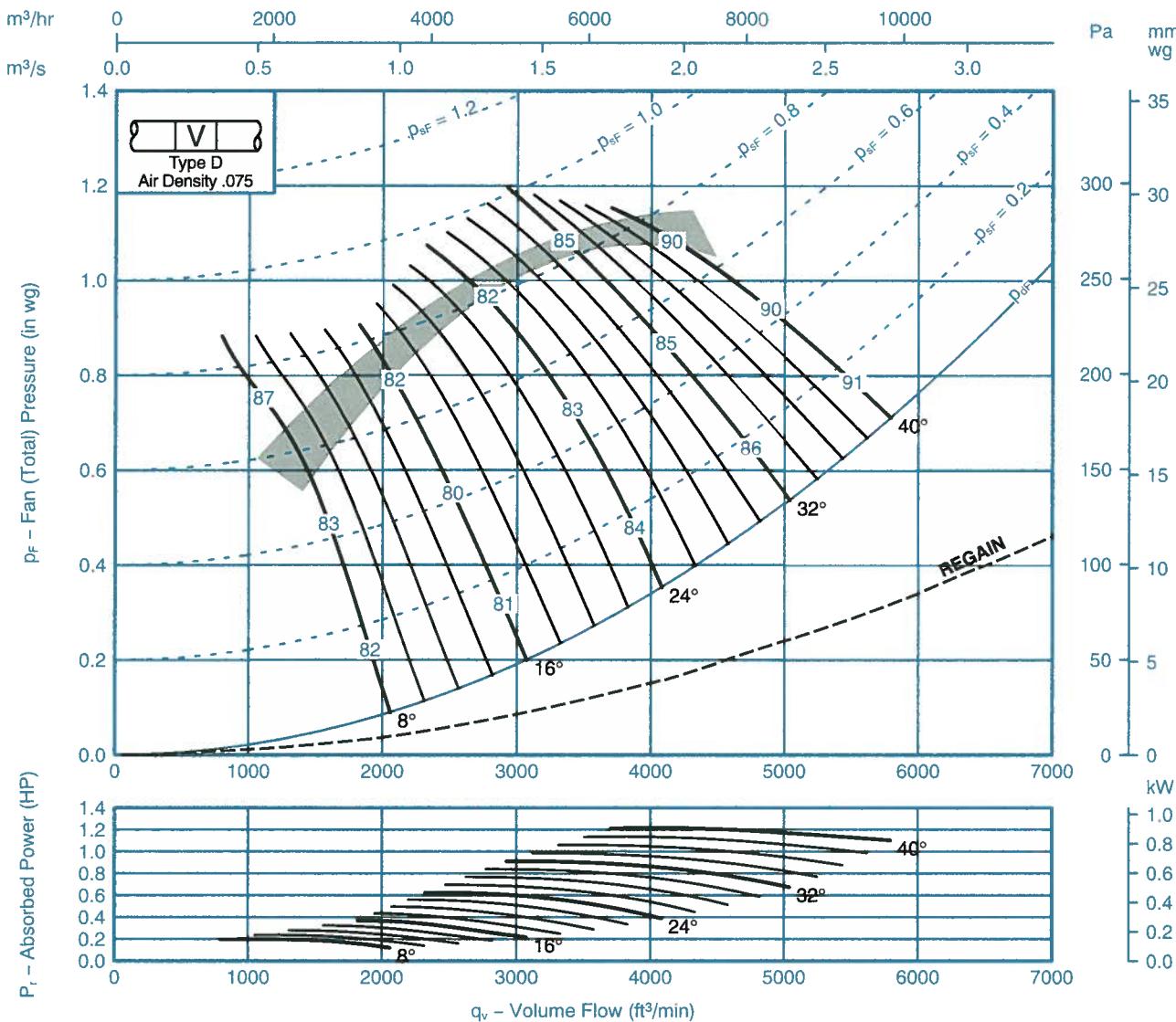
Fan Code: 45JM/16/4/5/
450 mm 1770 RPM
5 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12	-6	-9	-5	-8	-14	-22	-30
	-13	-7	-9	-7	-5	-10	-15	-21
16°	-10	-4	-8	-9	-9	-12	-15	-25
	-11	-3	-9	-11	-11	-12	-15	-19
24-40°	-5	-5	-9	-13	-13	-15	-17	-22
	-6	-4	-8	-11	-12	-15	-17	-23

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-4	-8	-5	-8	-14	-21	-27
	-14	-6	-9	-7	-6	-9	-15	-20
16°	-9	-4	-8	-9	-9	-12	-17	-23
	-11	-2	-9	-11	-11	-12	-14	-17
24-40°	-4	-5	-9	-13	-13	-15	-17	-21
	-6	-4	-8	-11	-12	-14	-16	-21

SK10275

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0



JM AEROFOIL

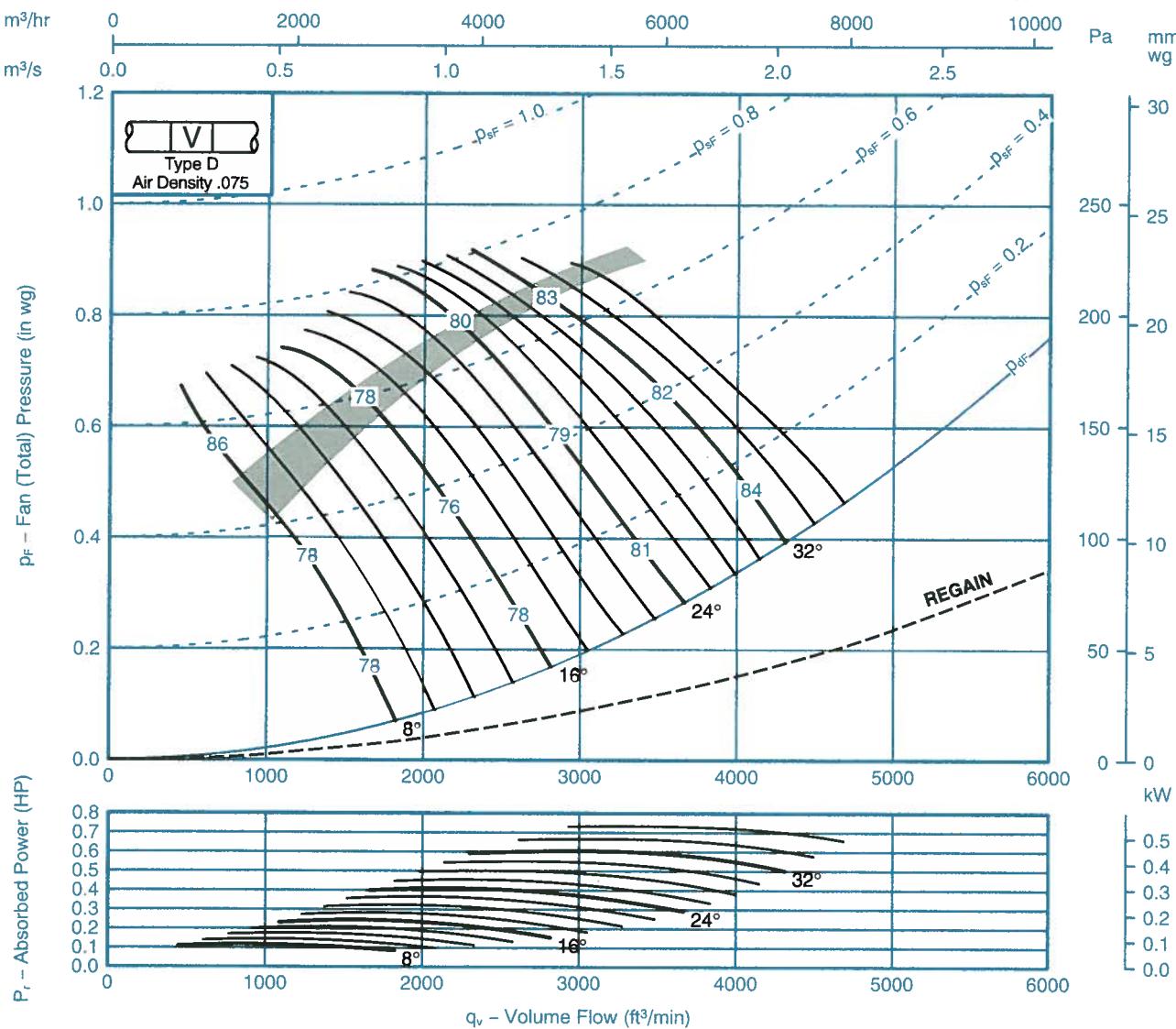
Fan Code: 45JM/20/4/3/
450 mm 1770 RPM
3 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-16	-8	-3	-7	-15	-24	-32
	-11	-12	-7	-5	-6	-12	-14	-18
16°	-8	-7	-6	-6	-11	-15	-19	-24
	-7	-10	-6	-6	-9	-13	-16	-21
24-36°	-5	-8	-6	-9	-12	-15	-18	-22
	-4	-10	-6	-8	-11	-14	-18	-23

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-15	-8	-3	-7	-15	-23	-30
	-8	-12	-7	-5	-6	-11	-12	-16
16°	-7	-7	-6	-6	-10	-14	-18	-23
	-4	-9	-6	-6	-9	-13	-16	-20
24-36°	-3	-7	-6	-9	-11	-14	-16	-19
	-2	-9	-6	-8	-11	-14	-17	-21

SK10276

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0



JM AEROFOIL

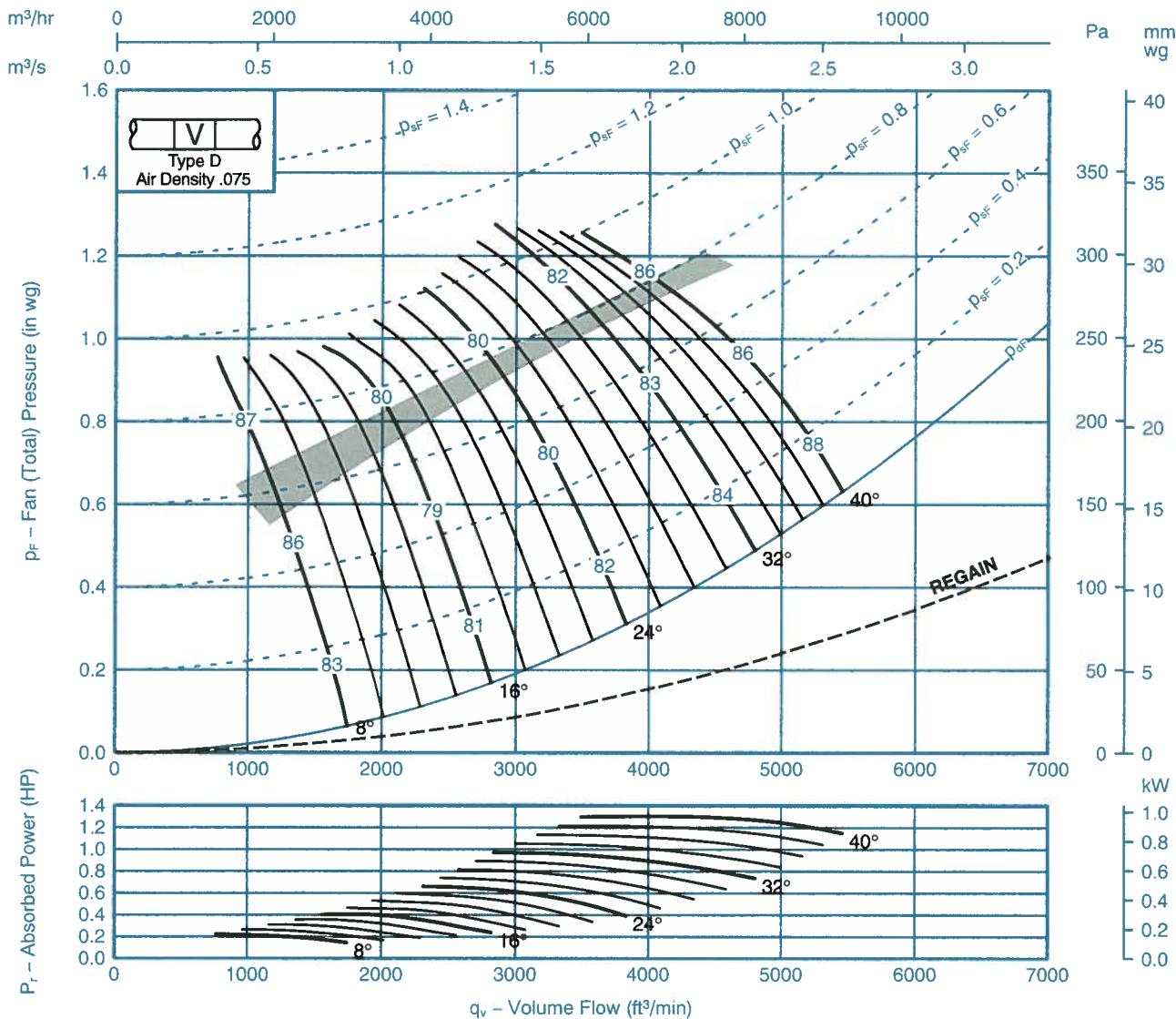
Fan Code: 45JM/20/4/6/...
450 mm 1770 RPM
6 Blades 60 Hz



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Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-18	-12	-8	-3	-6	-15	-23	-32
	-19	-14	-8	-5	-4	-12	-16	-23
16°	-14	-7	-7	-5	-8	-12	-16	-22
	-15	-8	-8	-5	-7	-11	-13	-17
24-40°	-7	-6	-9	-7	-10	-14	-17	-22
	-9	-6	-8	-7	-9	-13	-16	-21

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-11	-8	-3	-6	-14	-22	-30
	-18	-12	-8	-5	-4	-11	-15	-21
16°	-13	-5	-7	-5	-8	-11	-16	-21
	-14	-6	-7	-5	-7	-11	-13	-17
24-40°	-5	-5	-8	-7	-9	-13	-16	-21
	-6	-4	-8	-7	-9	-13	-15	-20

SK10277

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0



JM AEROFOIL

Fan Code: 45JM/20/2/3/...

450 mm 3500 RPM

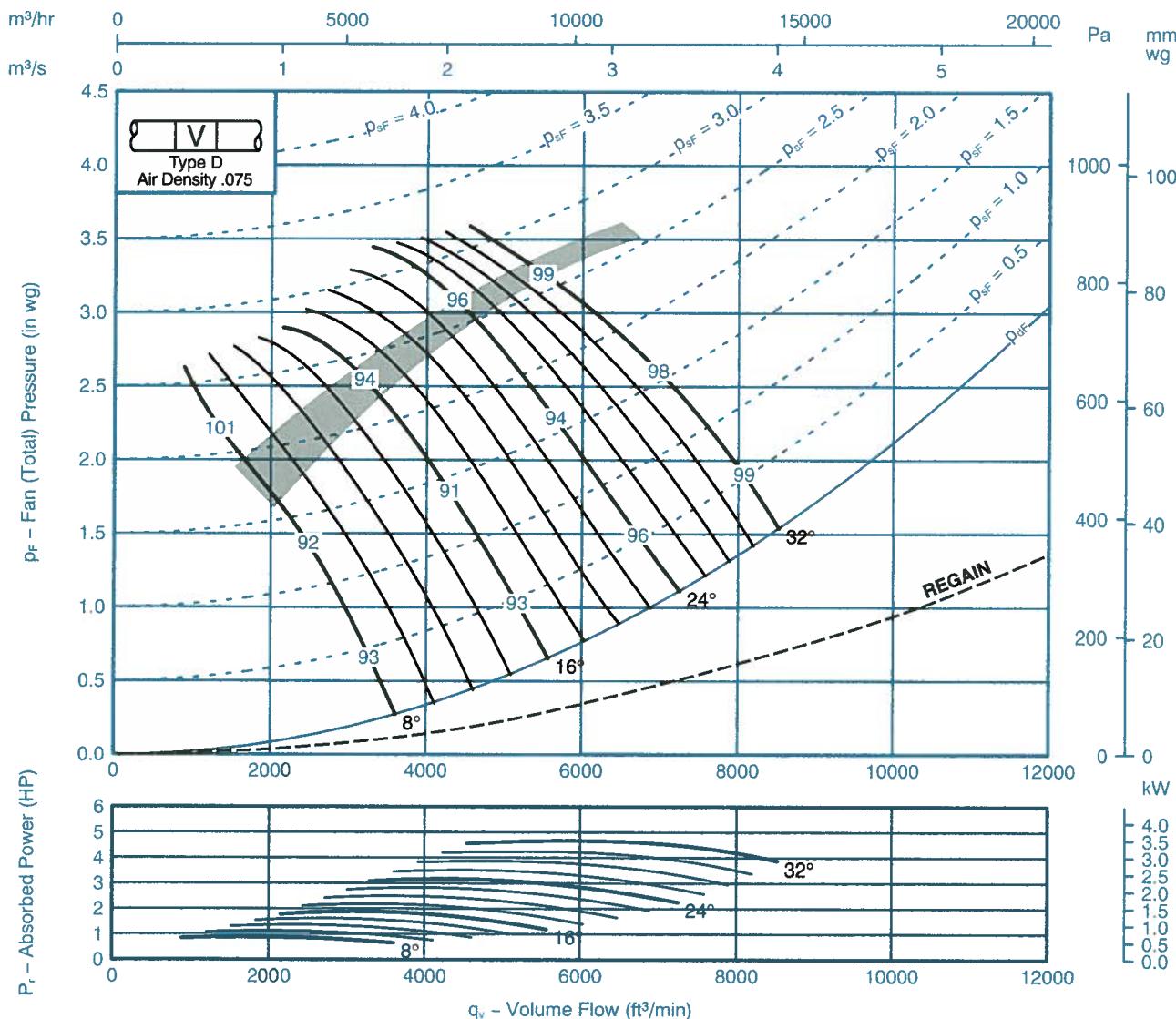
3 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-18	-17	-17	-8	-3	-7	-16	-24
	-15	-11	-13	-7	-6	-6	-12	-14
16°	-9	-9	-8	-6	-6	-11	-15	-19
	-11	-7	-10	-7	-7	-9	-14	-17
24-32°	-8	-5	-9	-7	-10	-12	-16	-19
	-9	-5	-11	-7	-9	-11	-15	-19

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-15	-15	-8	-3	-6	-15	-22
	-13	-8	-12	-7	-5	-6	-10	-12
16°	-8	-8	-7	-6	-6	-11	-15	-18
	-10	-5	-9	-7	-7	-9	-13	-15
24-32°	-7	-4	-8	-6	-10	-11	-14	-16
	-7	-2	-10	-7	-9	-10	-14	-17

SK10279

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0



JM AEROFOIL

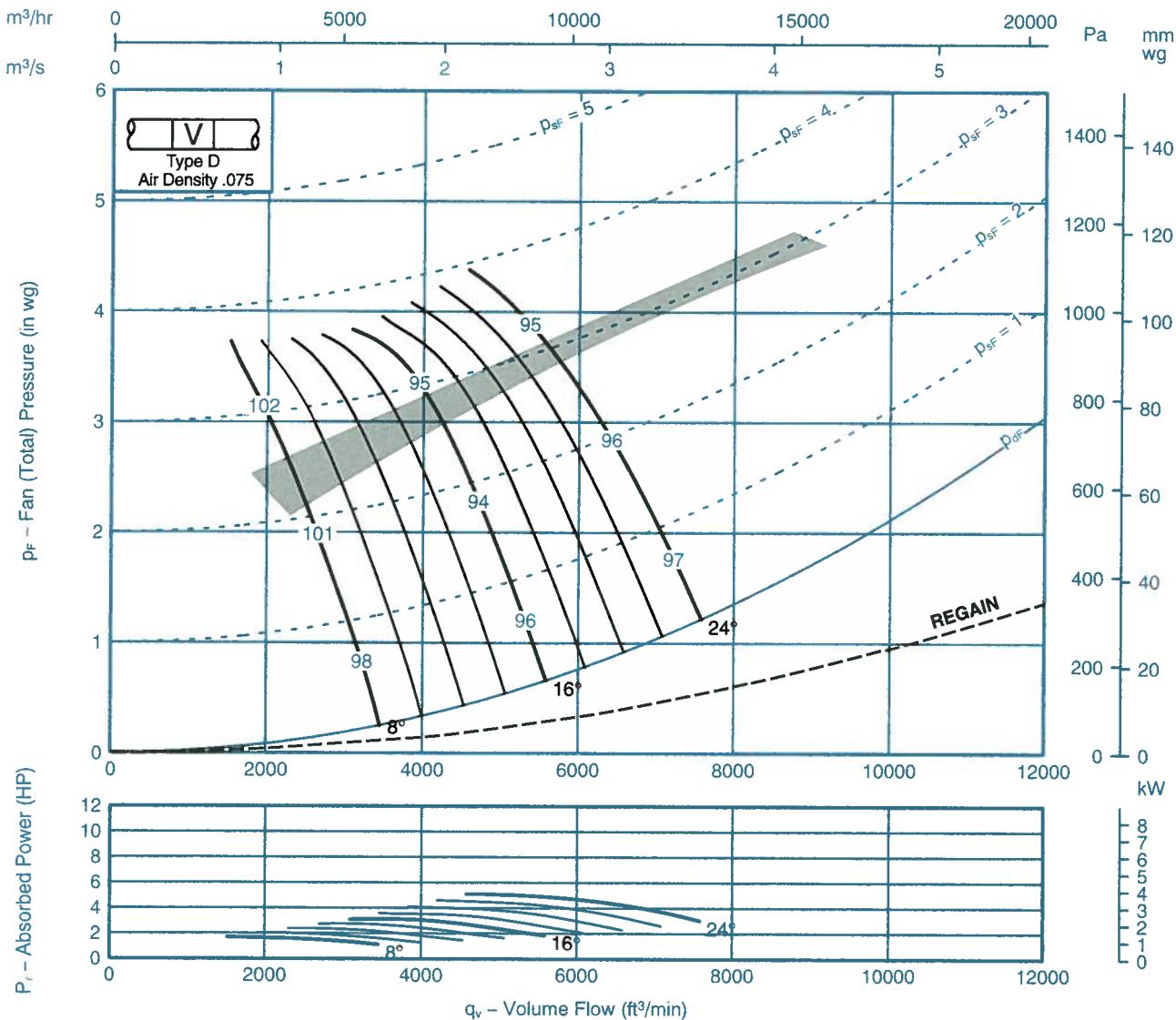
Fan Code: 45JM/20/2/6/
450 mm 3500 RPM
6 Blades 60 Hz



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Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-18	-13	-9	-4	-7	-16	-24
	-17	-19	-14	-8	-5	-5	-12	-17
16°	-9	-15	-7	-8	-6	-9	-13	-17
	-12	-16	-8	-8	-6	-7	-11	-14
24°	-8	-8	-7	-9	-7	-10	-15	-18
	-8	-9	-7	-9	-8	-9	-14	-17

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-17	-11	-8	-3	-5	-15	-21
	-15	-19	-12	-8	-5	-4	-11	-15
16°	-8	-15	-6	-8	-5	-8	-12	-16
	-10	-15	-6	-7	-6	-7	-11	-13
24°	-7	-7	-6	-9	-7	-9	-13	-17
	-6	-9	-5	-8	-8	-9	-13	-16

SK10280

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0



JM AEROFOIL

Fan Code: 50JM/16/8/5/...

500 mm 875 RPM

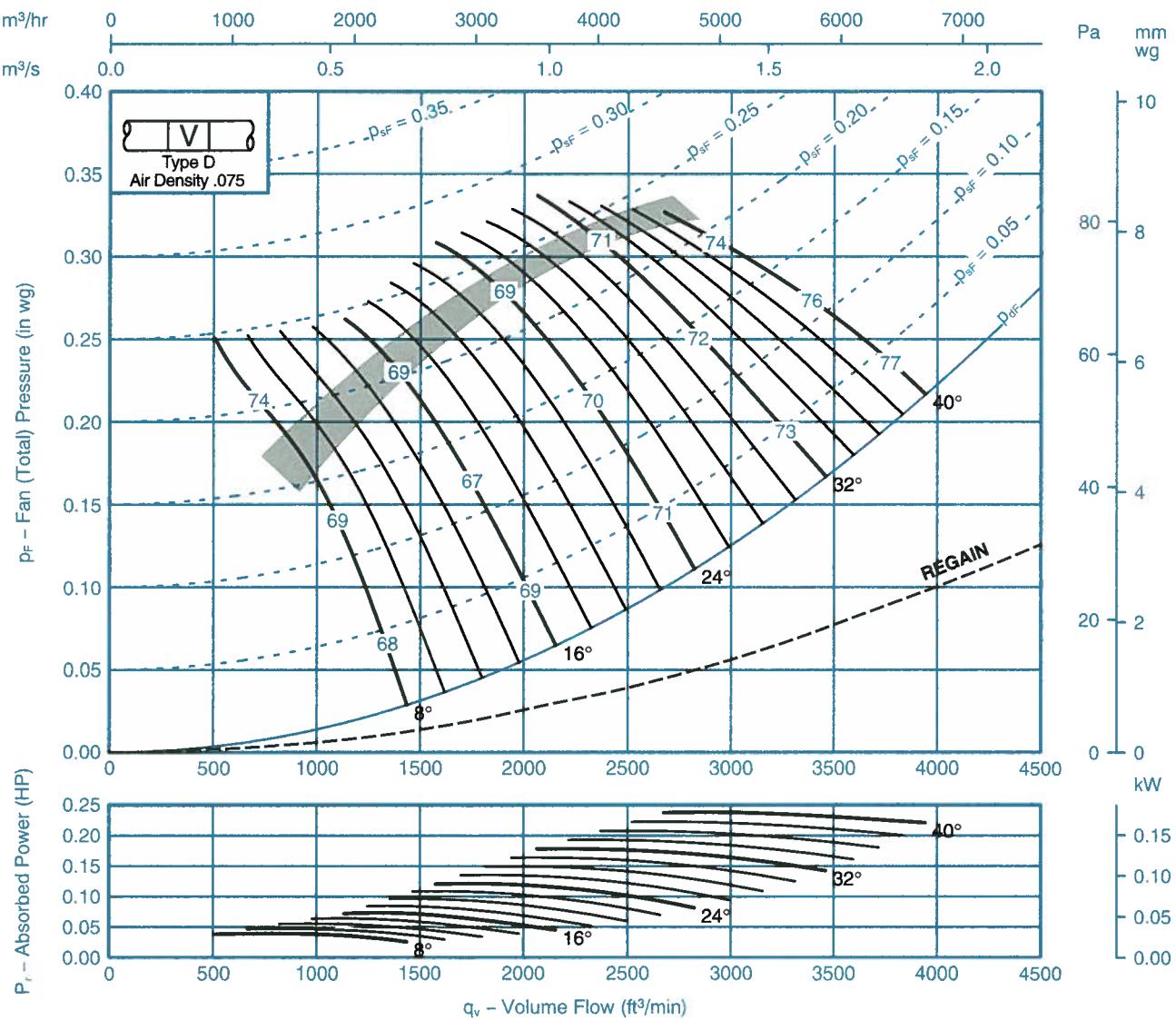
5 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-9	-4	-7	-13	-20	-27	-36
	-7	-10	-7	-5	-9	-14	-21	-29
16°	-6	-9	-5	-7	-11	-17	-24	-31
	-3	-8	-9	-11	-12	-15	-21	-27
24-40°	-3	-8	-9	-10	-12	-15	-19	-23
	-3	-8	-9	-11	-14	-17	-22	-27

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-6	-9	-3	-7	-12	-20	-26	-33
	-6	-10	-7	-5	-9	-13	-20	-27
16°	-6	-9	-5	-7	-11	-17	-23	-29
	-2	-8	-9	-11	-12	-15	-20	-25
24-40°	-2	-8	-9	-10	-12	-15	-19	22
	-2	-7	-9	-11	-14	-17	-21	-26

SK10281

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0



JM AEROFOIL

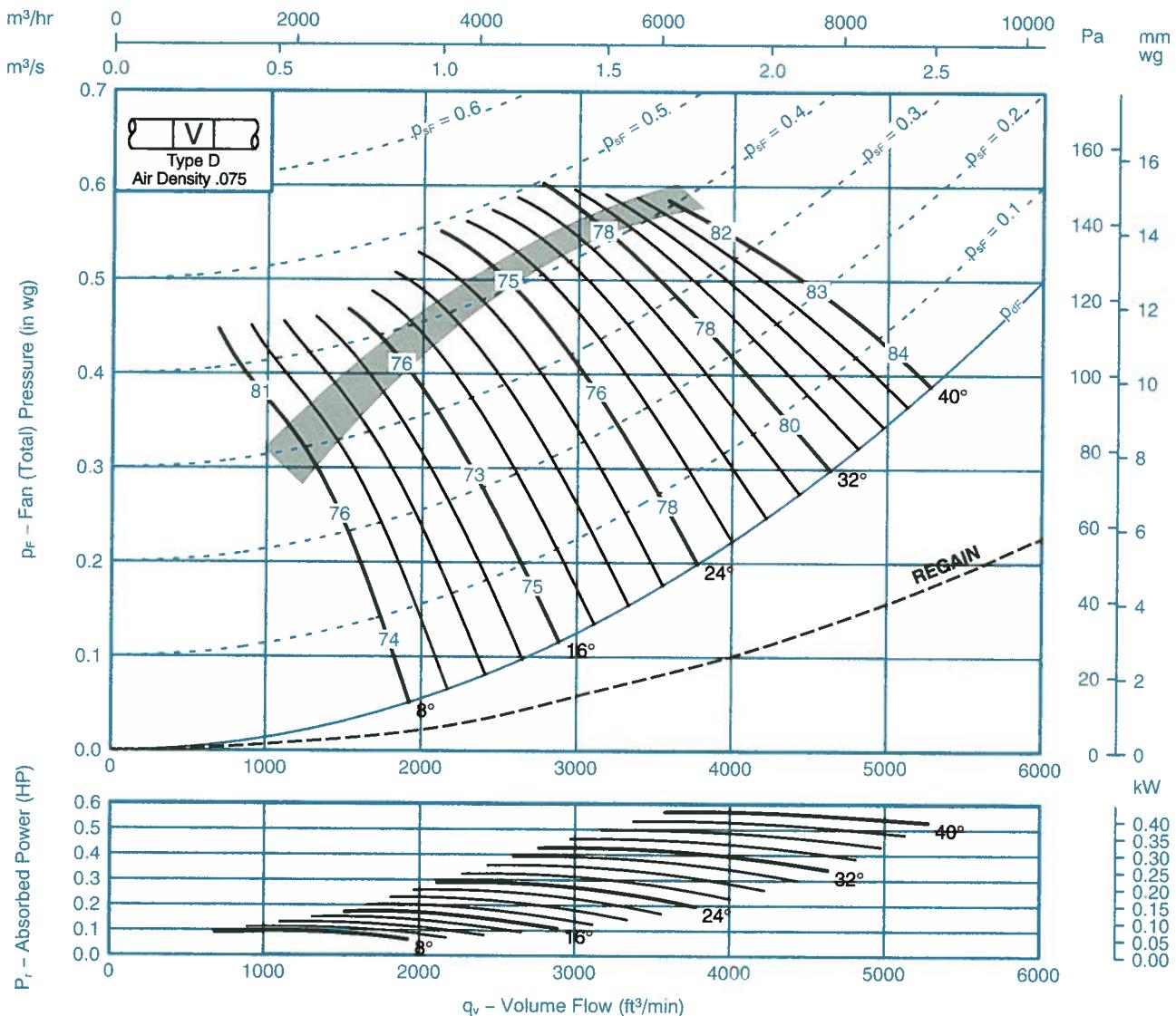
Fan Code: 50JM/16/6/5/
500 mm 1170 RPM
5 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-8	-6	-4	-10	-17	-24	-32
	-13	-7	-9	-5	-7	-12	-17	-25
16°	-10	-7	-9	-4	-9	-14	-21	-28
	-8	-4	-8	-9	-11	-13	-18	-24
24-40°	-5	-5	9	-10	-12	-14	-18	-22
	-5	-5	-8	-10	-13	-16	-20	-25

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-6	-6	-4	-10	-17	-23	-30
	-13	-6	-9	-5	-7	-10	-17	-24
16°	-9	-7	-9	-4	-9	-14	-20	-26
	-8	-3	-8	-9	-11	-13	-17	-23
24-40°	-4	-5	-9	-9	-12	-14	-17	-21
	-5	-4	-8	-10	-13	-15	-19	-24

SK10282

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0



JM AEROFOIL

Fan Code: 50JM/20/6/3/...

500 mm 1170 RPM

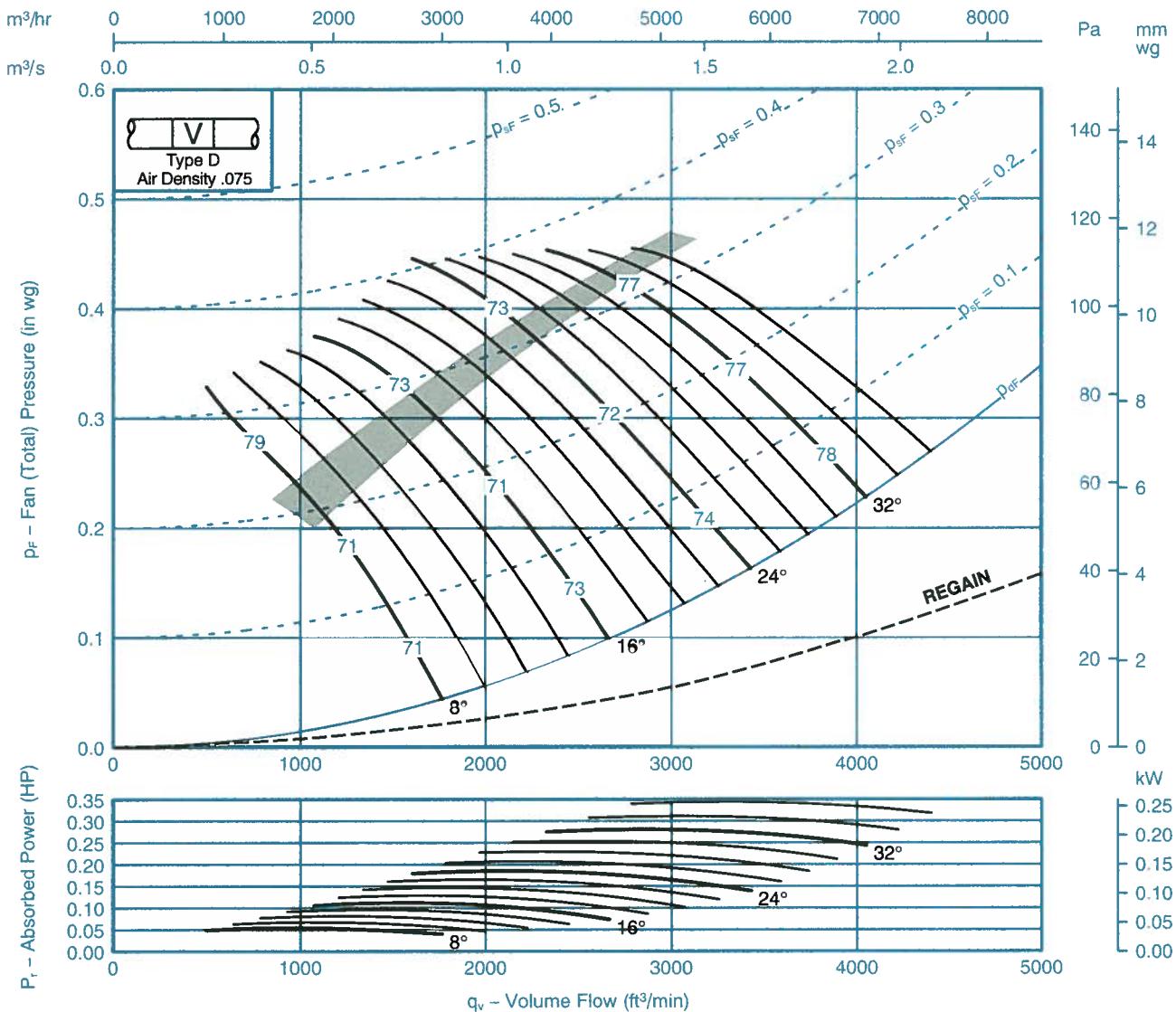
3 Blades 60 Hz



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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-12	-5	-3	-10	-19	-27	-37
	-8	-9	-6	-6	-9	-13	-16	-20
16°	-8	-6	-5	-8	-13	-17	-21	-26
	-5	-7	-6	-9	-12	-17	-19	-24
24-36°	-5	-6	-7	-10	-12	-16	-19	-23
	-4	-7	-7	-10	-13	-17	-21	-26

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-12	-5	-3	-10	-19	-26	-35
	-5	-9	-6	-6	-9	-13	-14	-18
16°	-6	-6	-5	-8	-13	-16	-20	-25
	-3	-7	-6	-8	-12	-16	-18	-23
24-36°	-3	-6	-7	-9	-12	-15	-17	-21
	-1	-7	-7	-10	-13	-17	-20	-24

SK10283

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0



JM AEROFOIL

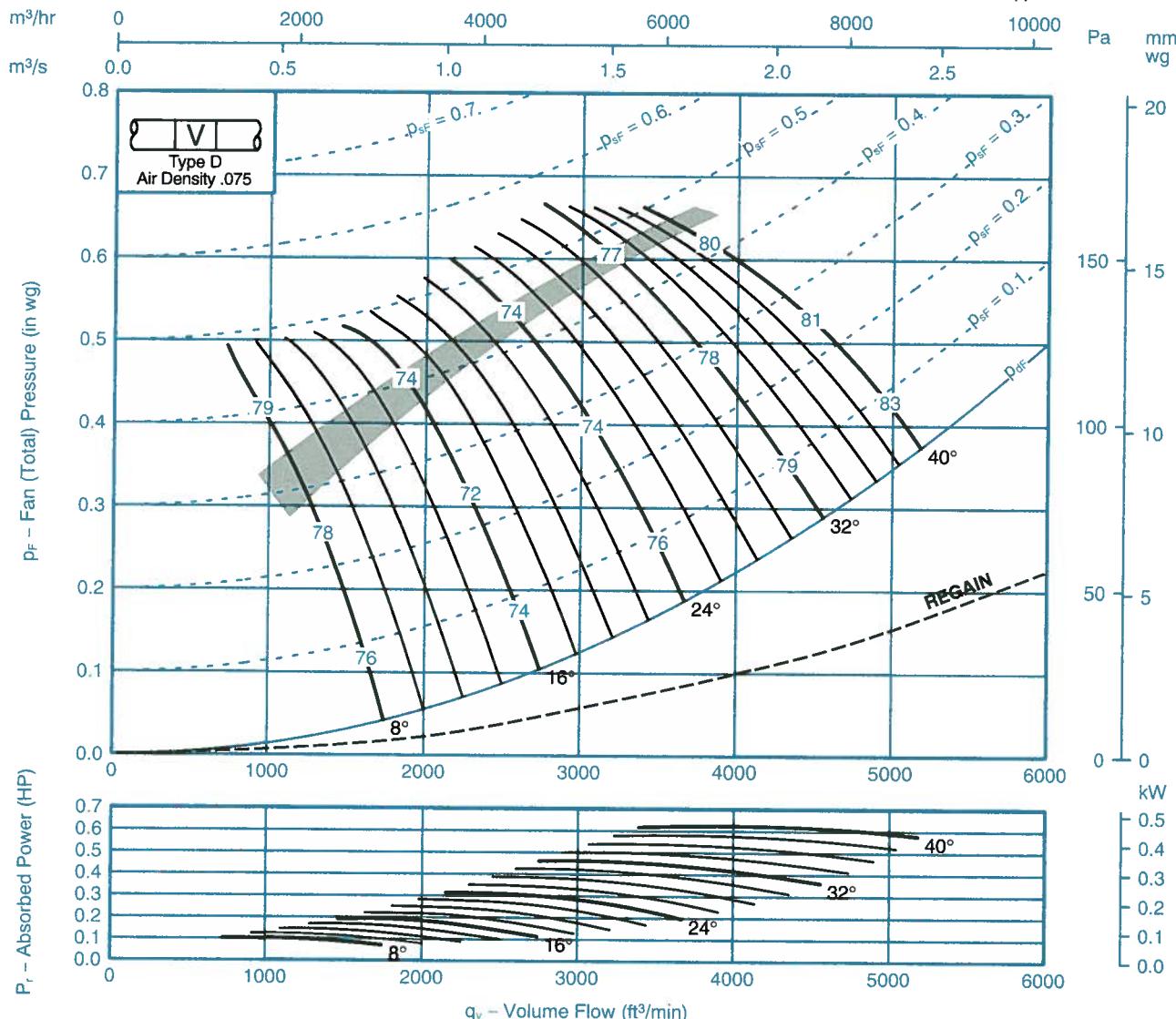
Fan Code: 50JM/20/6/6/...
500 mm 1170 RPM
6 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-18	-11	-7	-3	-9	-17	-26	-36
	-18	-11	-6	-4	-7	-14	18	-25
16°	-13	-6	-5	-7	-10	-15	-20	-26
	-13	-5	-6	-7	-10	-13	-16	-20
24-40°	-6	-5	-7	-9	-12	-15	-19	-23
	-7	-5	-7	-9	-12	-15	-19	-23

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-9	-6	-3	-9	-17	-25	-35
	-17	-8	-6	-4	-7	-13	-17	-23
16°	-12	-4	-5	-6	-10	-14	-20	-25
	-12	-3	-6	-7	-10	-13	-16	-19
24-40°	-5	-4	-6	-9	-11	-14	-17	-21
	-5	-3	-7	-9	-12	-15	-18	-22

SK10284

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0



JM AEROFOIL

Fan Code: 50JM/16/4/5/...

500 mm 1770 RPM

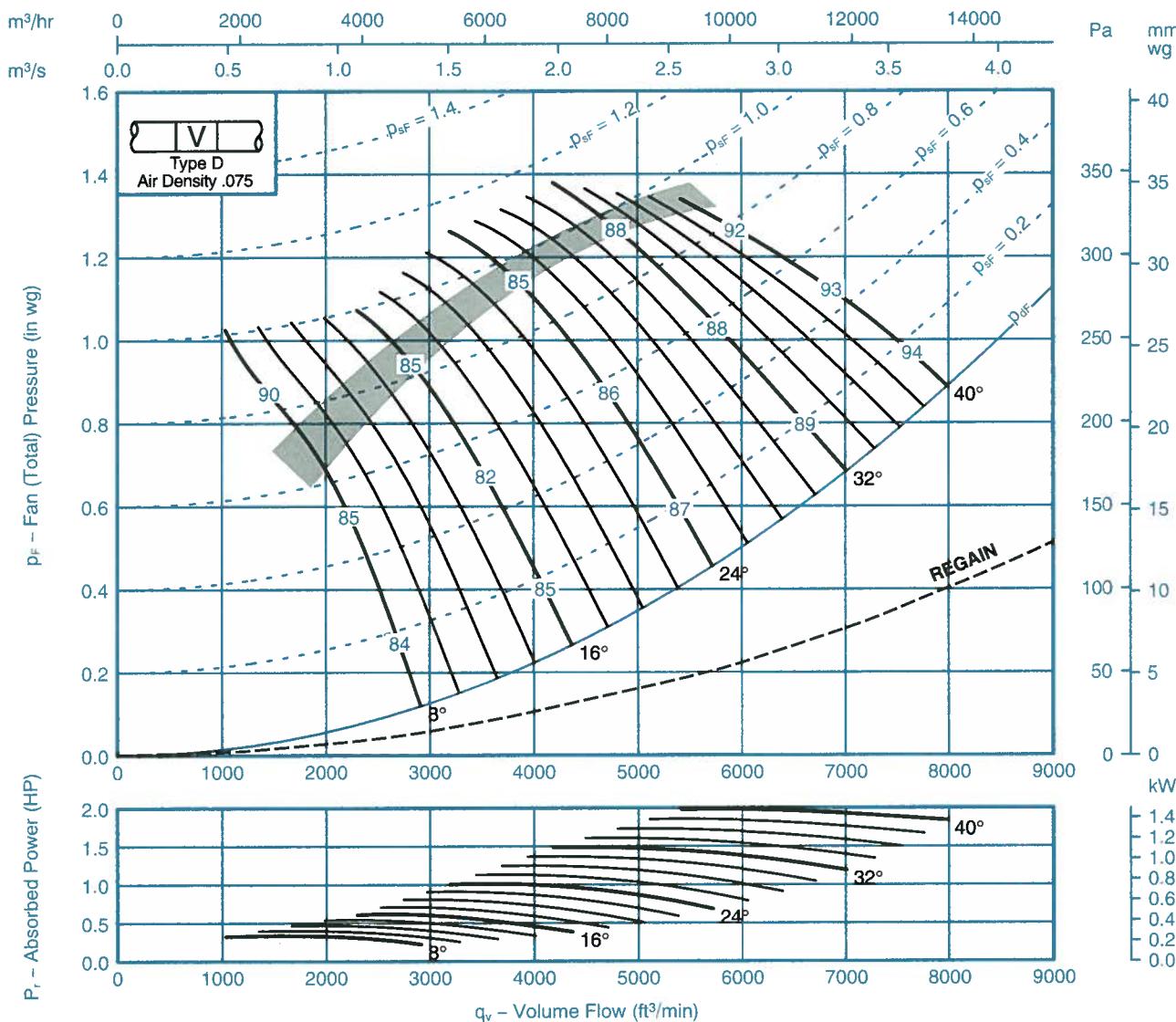
5 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-9	-10	-4	-8	-13	-21	-28
	-15	-7	-10	-7	-6	-9	-14	-21
16°	-13	-7	-10	-6	-8	-11	-18	-25
	-12	-3	-9	-10	-11	-12	-15	-21
24-40°	-6	-5	-10	-11	-12	-14	-17	-21
	-7	-4	-9	-11	-12	-15	-18	-23

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-6	-9	-4	-7	-12	-20	-25
	-15	-6	-10	-7	-5	-8	-13	-19
16°	-12	-7	-9	-5	-7	-11	-16	-22
	-11	-3	-8	-9	-11	-12	-14	-19
24-40°	-5	-4	-9	-11	-12	-14	-16	-19
	-6	-3	-9	-10	-12	-15	-17	-21

SK10285

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0



JM AEROFOIL

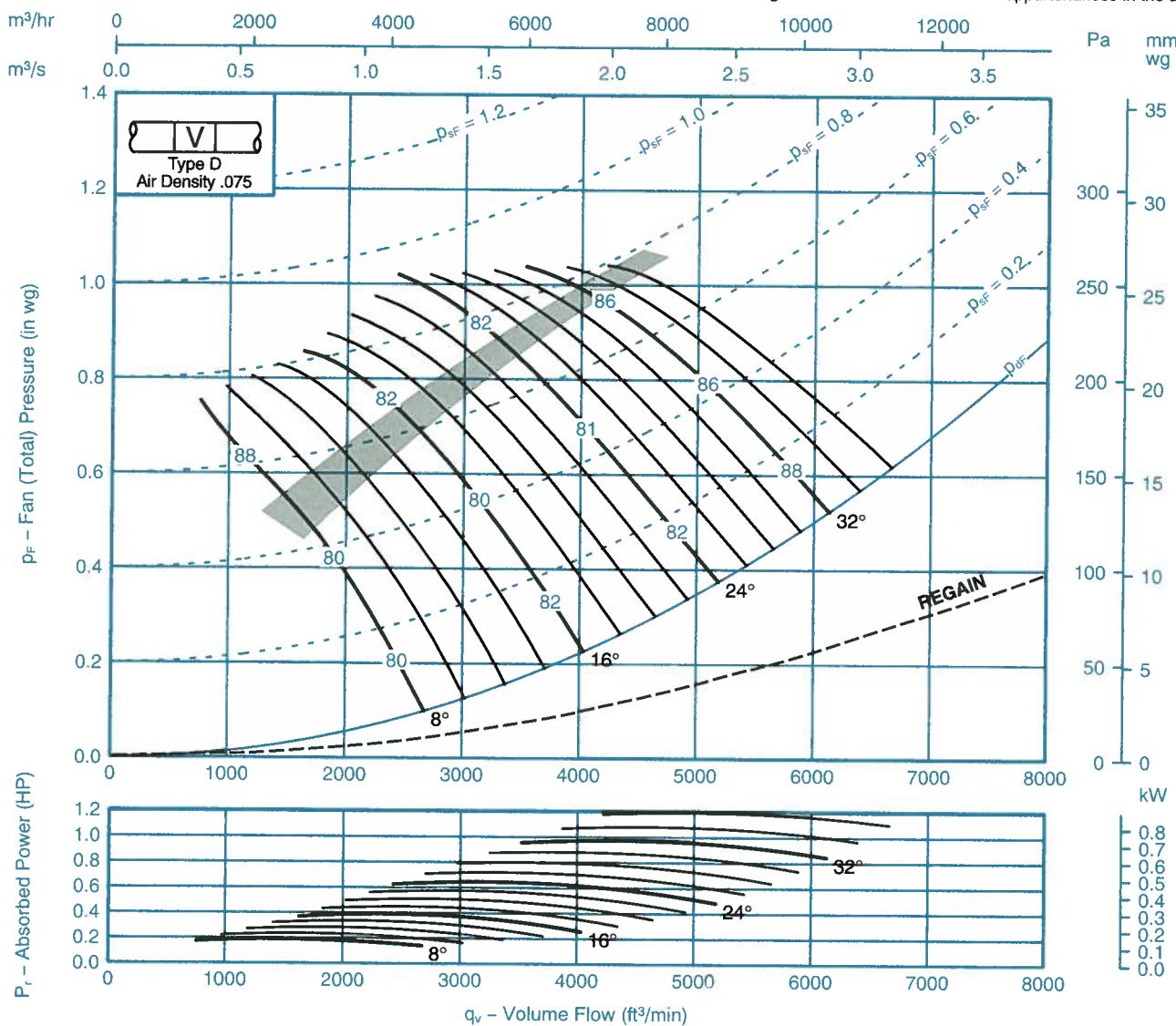
Fan Code: 50JM/20/4/3/
500 mm 1770 RPM
3 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-17	-9	-3	-5	-14	-22	-31
	-9	-12	-7	-6	-6	-12	-14	-18
16°	-9	-8	-5	-6	-10	-15	-18	-23
	-6	-10	-6	-7	-10	-14	-17	-21
24-36°	-5	-9	-6	-9	-10	-14	-18	-21
	-4	-10	-6	-8	-11	-15	-19	-23

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-16	-9	3	-5	-13	-22	-29
	-6	-11	-7	-6	-6	-11	-12	-15
16°	-7	-8	-5	-6	-10	-15	-17	-22
	-3	-9	-6	-7	-9	-14	-16	-20
24-36°	-3	-8	-6	-8	-10	-13	-16	-19
	-1	-9	-6	-8	-11	-14	-17	-21

SK10286

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0



JM AEROFOIL

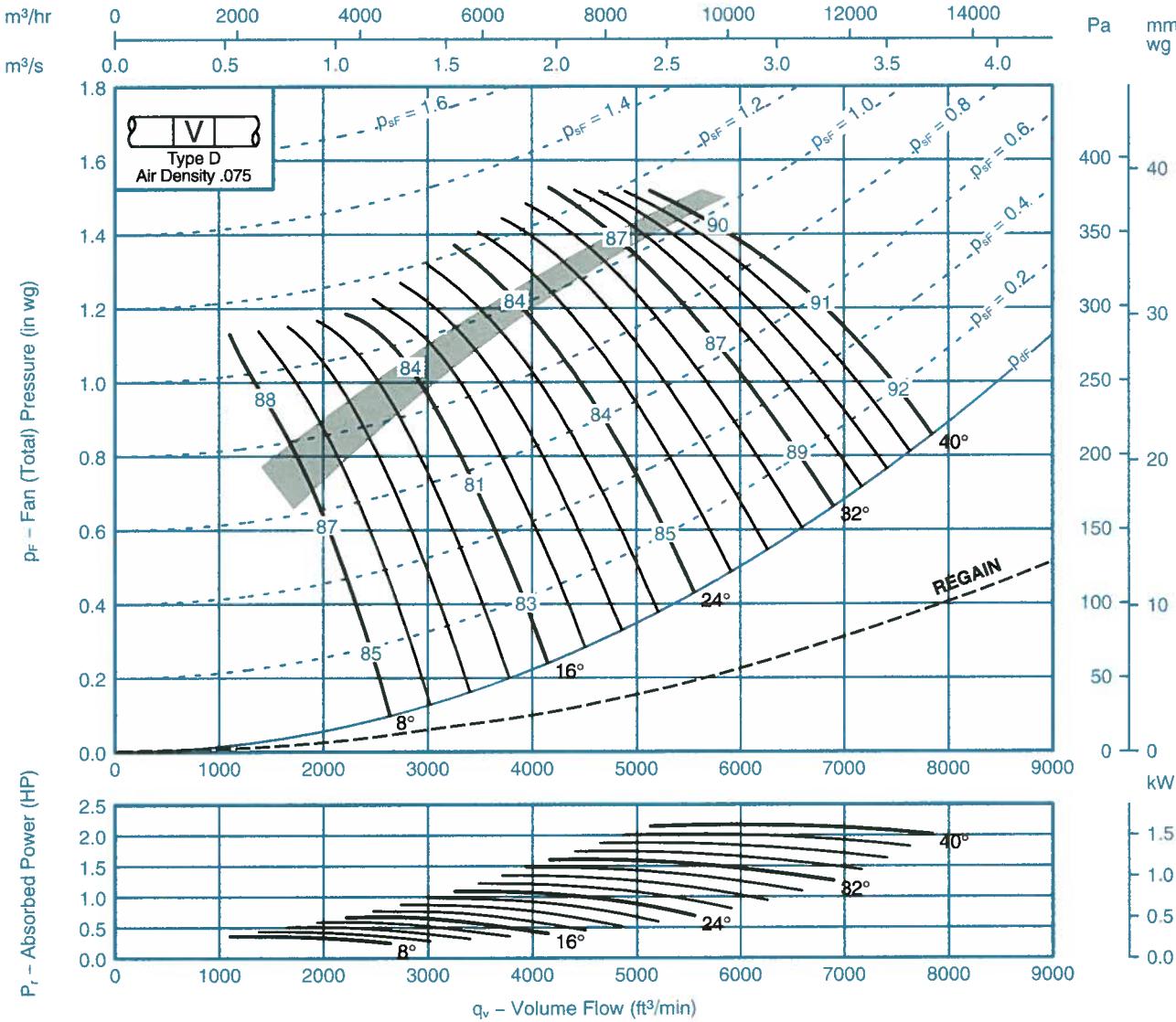
Fan Code: 50JM/20/4/6/...
500 mm 1770 RPM
6 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-20	-13	-11	-4	-4	-13	-21	-30
	-19	-12	-9	-6	-4	-11	-15	-21
16°	-15	-6	-8	-5	-7	-12	-17	-23
	-14	-6	-8	-6	-7	-12	-14	-18
24-40°	-7	-5	-9	-8	-10	-14	-17	-21
	-7	-5	-9	-8	-10	-14	-17	-21

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-18	-11	-10	-4	-4	-12	-21	-29
	-18	-10	-8	-6	-4	-10	-14	-19
16°	-14	-5	-8	-5	-7	-12	-16	-22
	-13	-4	-7	-6	-7	-12	-14	-17
24-40°	-5	-4	-9	-7	-10	-13	-15	-19
	-5	-3	-8	-8	-10	-14	-16	-20

SK10287

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0



JM AEROFOIL

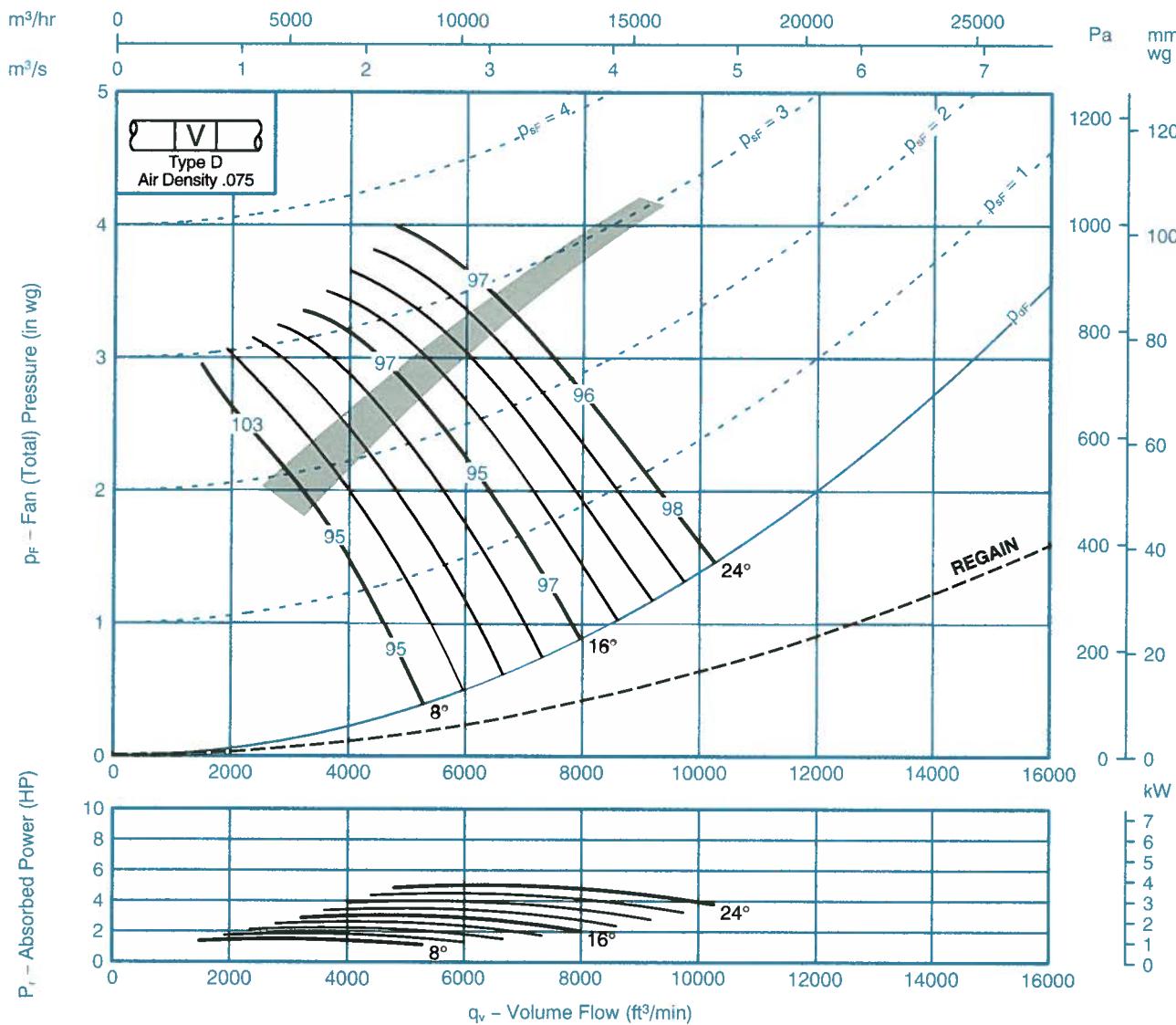
Fan Code: 50JM/20/2/3/...
500 mm 3500 RPM
3 Blades 60 Hz



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Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-20	-17	-17	-9	-4	-6	15	-23
	-14	-9	-13	-7	-6	-7	-12	-14
16°	-11	-10	-9	-6	-6	-11	-16	-19
	-11	-6	-11	-7	-7	-10	-15	-18
24°	-9	-6	-10	-7	-10	-11	-15	-18
	-9	-5	-11	-7	-9	-11	-16	-19

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-15	-16	-9	-3	-4	-13	-20
	-13	-6	-12	-7	-6	-6	-10	-11
16°	-9	-8	-8	-5	-6	-10	-15	-18
	-9	-4	-10	-6	-7	-10	-14	-16
24°	-7	-4	-9	-6	-9	-10	-13	-16
	-7	-2	-10	-7	-9	-10	-15	-17

SK10288

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0



JM AEROFOIL

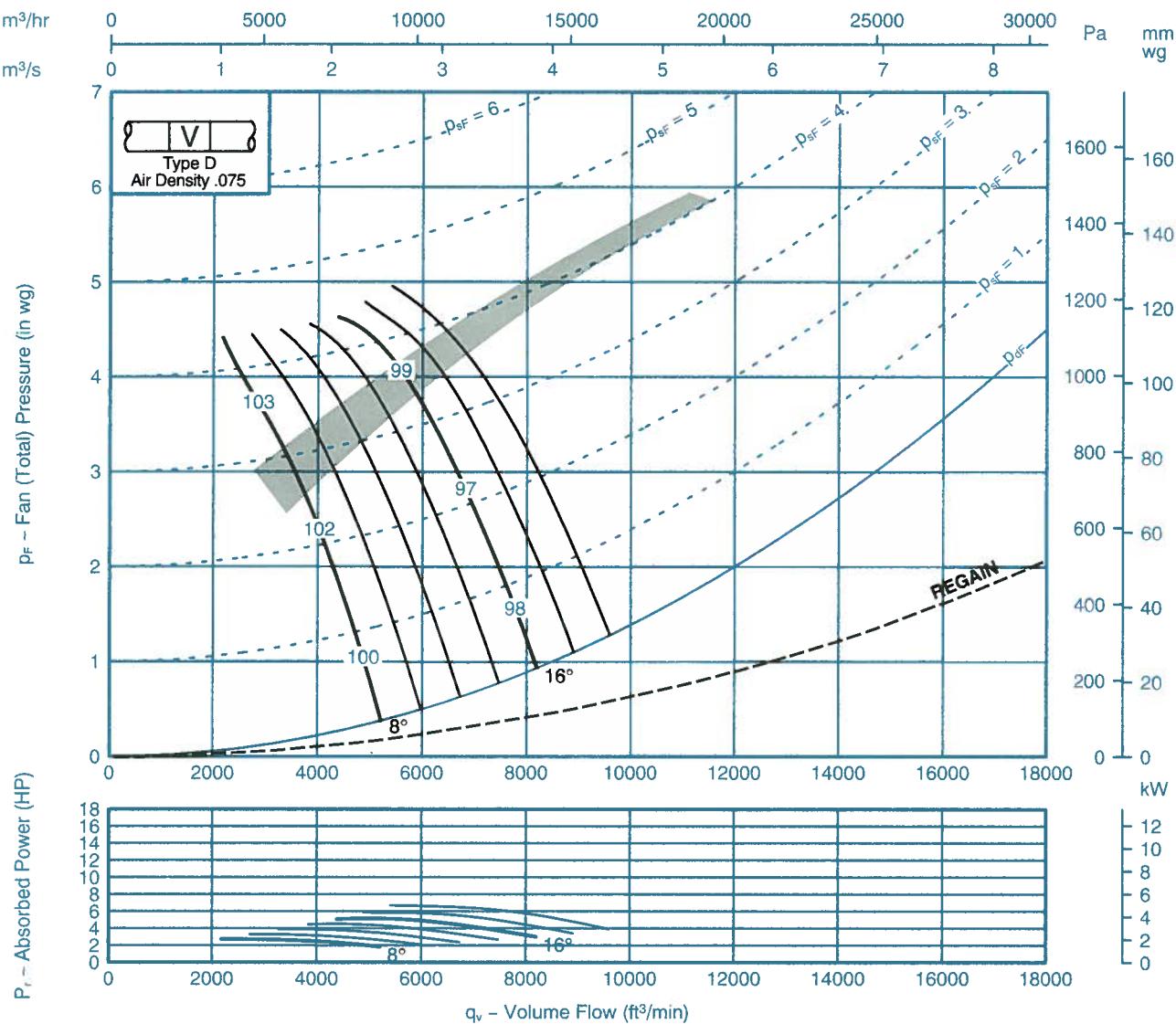
Fan Code: 50JM/20/2/6/...
500 mm 3500 RPM
6 Blades 60 Hz



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Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-18	-21	-14	-11	-5	-5	-13	-22
	-16	-20	-13	-9	-6	-4	-11	-16
16-20°	-10	-16	-7	-9	-6	-8	-13	-17
	-10	-15	-7	-8	-7	-8	-12	-15

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-20	-11	-10	-4	-3	-12	-20
	-14	-20	-11	-8	-6	-3	-10	-14
16-20°	-8	-16	-5	-8	-5	-7	-12	-16
	-8	-14	-5	-8	-6	-8	-12	-14

SK10289

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0



JM AEROFOIL

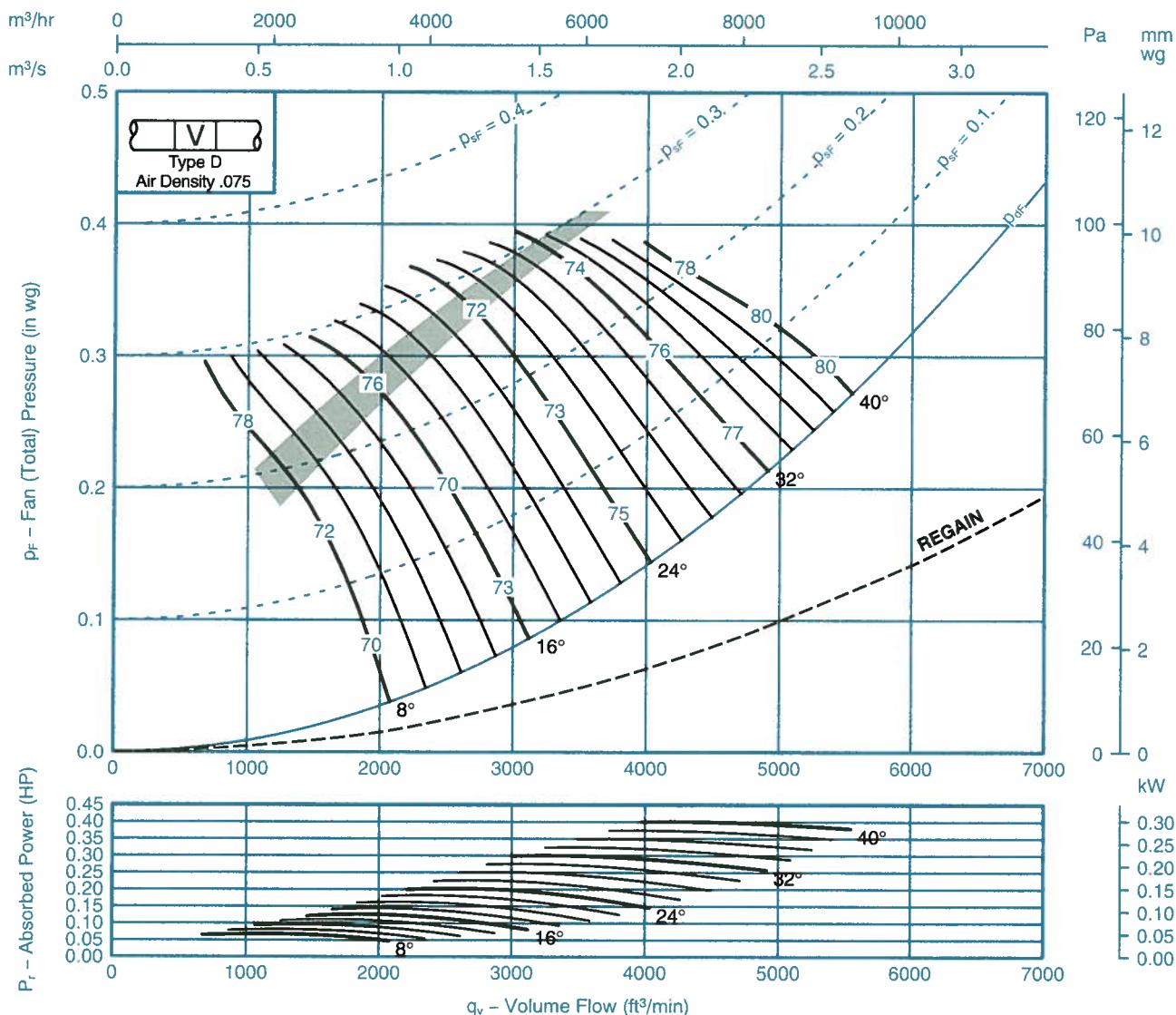
Fan Code: 56JM/16/8/5/...
560 mm 875 RPM
5 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-11	-3	-6	-11	-19	-26	-35
	-7	-11	-7	-5	-8	-13	-19	-27
16°	-11	-12	-3	-6	-11	-18	-25	-33
	-3	-9	-8	-11	-13	-15	-20	-27
24-40°	-3	-9	-7	-10	-12	-15	-19	-23
	-2	-8	-8	-11	-14	-17	-22	-27

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-9	-10	-3	-6	-11	-19	-25	-33
	-6	-11	-7	-5	-8	-12	-19	-26
16°	-10	-12	-3	-6	-11	-18	-24	-32
	-3	-8	-8	-11	-13	-15	-20	-25
24-40°	-3	-9	-7	-10	-12	-15	-18	-22
	-2	-8	-8	-11	-14	-17	-21	-25

SK10290

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-9	-5	-2	0	0	0	0	0



JM AEROFOIL

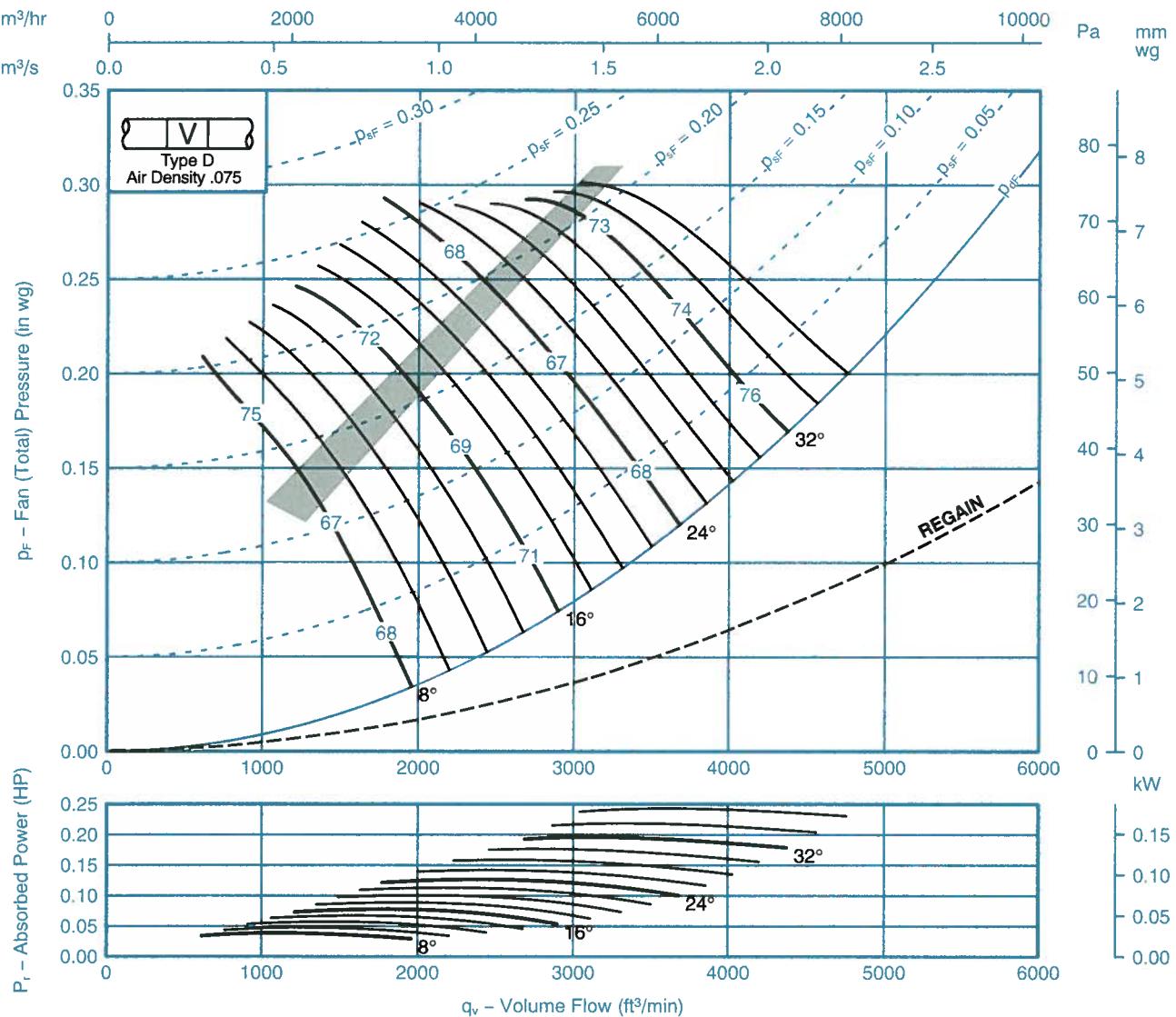
Fan Code: 56JM/20/8/3/
560 mm 875 RPM
3 Blades 60 Hz



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Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15 -5	-10 -7	-4 -7	-4 -7	-13 -12	-21 -14	-30 -17	-40 -21
16°	-6 -4	-5 -6	-6 -8	-10 -10	-16 -16	-18 -18	-22 -22	-27 -27
24-36°	-5 -3	-6 -6	-8 -8	-9 -10	-14 -16	-17 -19	-21 -23	-25 -28

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12 -3	-9 -7	-4 -7	-4 -7	-13 -12	-21 -13	-29 -15	-38 -19
16°	-4 -2	-5 -6	-6 -8	-10 -10	-16 -16	-18 -18	-21 -21	-26 -26
24-36°	-3 0	-5 -6	-8 -8	-9 -10	-13 -16	-16 -18	-19 -22	-23 -26

SK10291

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-9	-5	-2	0	0	0	0	0



JM AEROFOIL

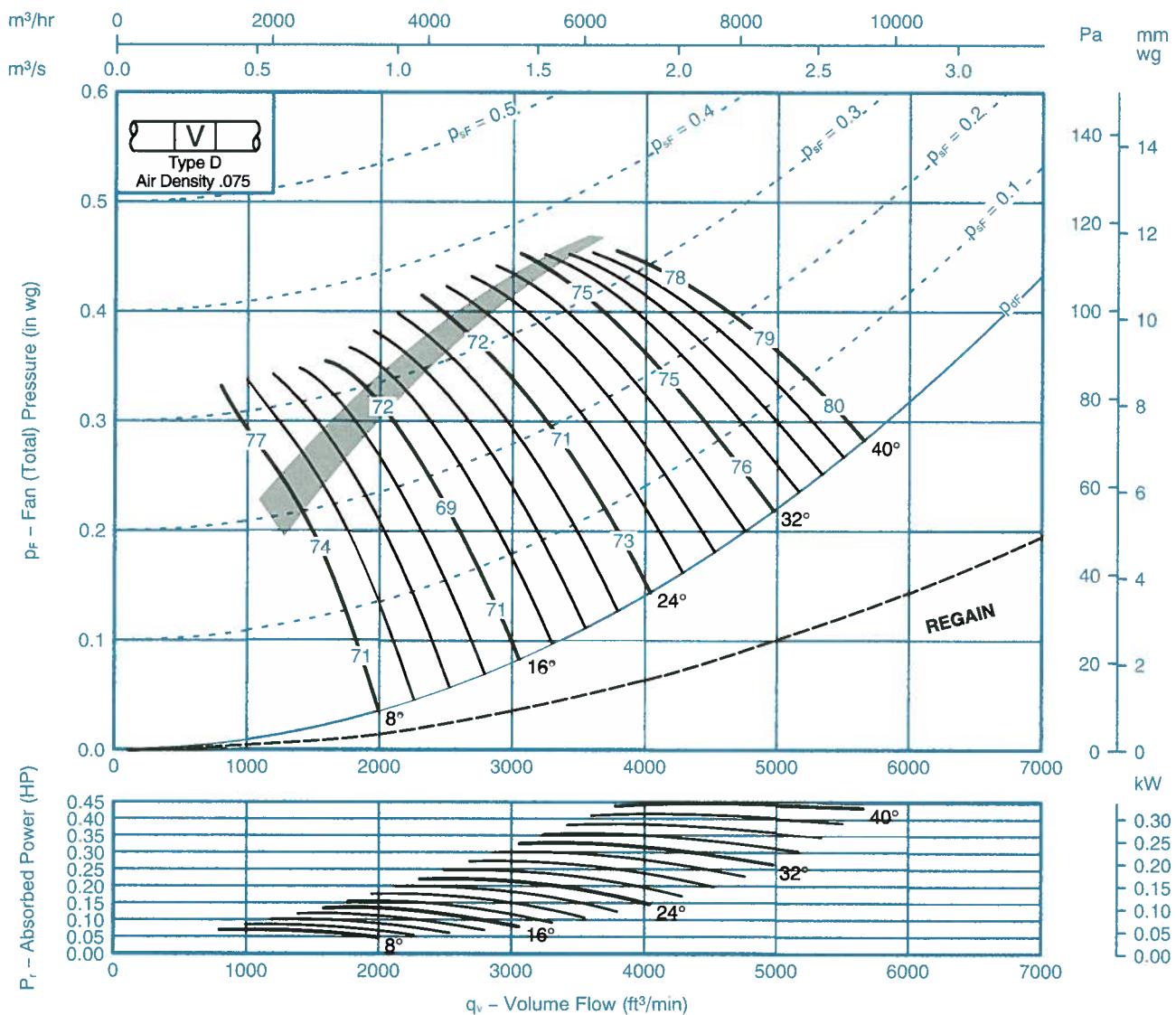
Fan Code: 56JM/20/8/6/...
560 mm 875 RPM
6 Blades 60 Hz



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Inlet Levels									
Pitch Angle	Octave Band Center Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
8°	-13	-14	-6	-3	-11	-20	-29	-40	
16°	-6	-9	-5	-7	-13	-17	-24	-31	
24-40°	-4	-9	-7	-10	-12	-15	-18	-22	

Outlet Levels									
Pitch Angle	Octave Band Center Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
8°	-11	-13	-6	-3	-11	-20	-29	-38	
16°	-5	-8	-6	-8	-13	-15	-18	-22	
24-40°	-3	-8	-7	-10	-13	-17	-21	-24	

SK10292

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-9	-5	-2	0	0	0	0	0



JM AEROFOIL

Fan Code: 56JM/16/6/5/...

560 mm 1170 RPM

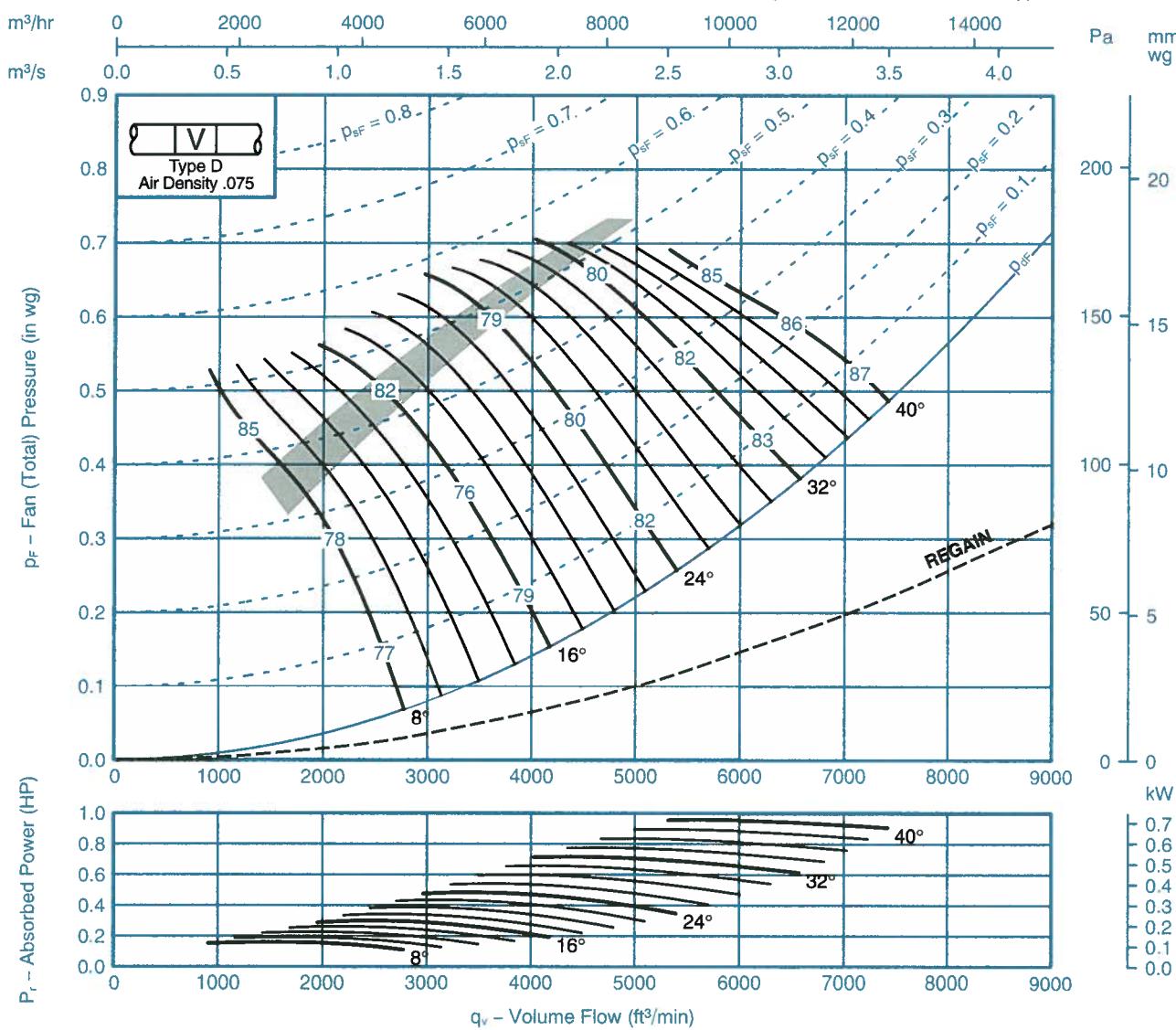
5 Blades 60 Hz



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Inlet Levels									
Pitch Angle	Octave Band Center Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
8°	-14	-11	-6	-4	-8	-16	-23	-31	
	-13	-8	-9	-5	-6	-11	-16	-24	
16°	-14	-11	-6	-3	-8	-15	-22	-30	
	-9	-4	-7	-9	-11	-14	-17	-24	
24-40°	-7	-5	-8	-8	-11	-14	-17	-21	
	-6	-4	-8	-9	-13	-16	-20	-25	

Outlet Levels									
Pitch Angle	Octave Band Center Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
8°	-13	-9	-6	-4	-8	-16	-22	-29	
	-13	-6	-9	-5	-6	-10	-15	-23	
16°	-14	-11	-6	-3	-8	-15	-21	-28	
	-8	-4	-7	-9	-11	-14	-17	-23	
24-40°	-5	-5	-8	-8	-11	-14	-16	-20	
	-5	-4	-8	-9	-13	-16	-19	-23	

SK10293

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-9	-5	-2	0	0	0	0	0



JM AEROFOIL

Fan Code: 56JM/20/6/3/...

560 mm 1170 RPM

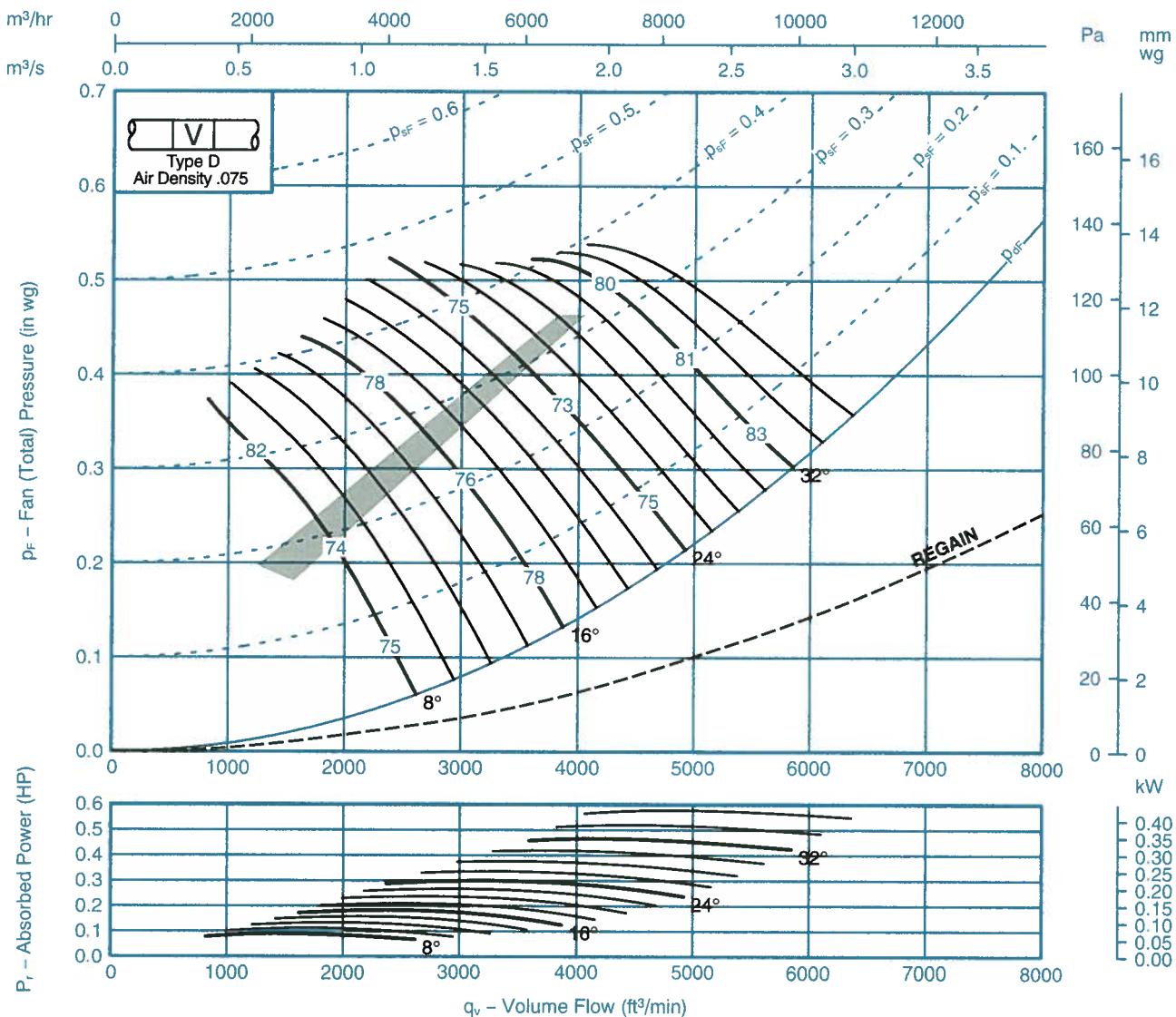
3 Blades 60 Hz



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Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-11	-6	-2	-11	-19	-27	-37
	-6	-8	-7	-7	-10	-14	-16	-20
16°	-7	-5	-5	-9	-15	-18	-21	-26
	-5	-6	-6	-9	-14	18	-20	-25
24-36°	-6	-6	-7	-9	-12	-16	-19	-24
	-4	-6	-7	-10	-14	-18	-21	-27

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-11	-6	-2	-11	-19	-26	-35
	-3	-8	-7	-7	-10	-13	-14	-17
16°	-5	-5	-5	-9	-14	-17	-20	-25
	-2	-6	-6	-9	-14	-18	-19	-24
24-36°	-4	-5	-7	-8	-11	-15	-17	-21
	-1	-6	-7	-10	-14	-17	-20	-25

SK10294

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-9	-5	-2	0	0	0	0	0



JM AEROFOIL

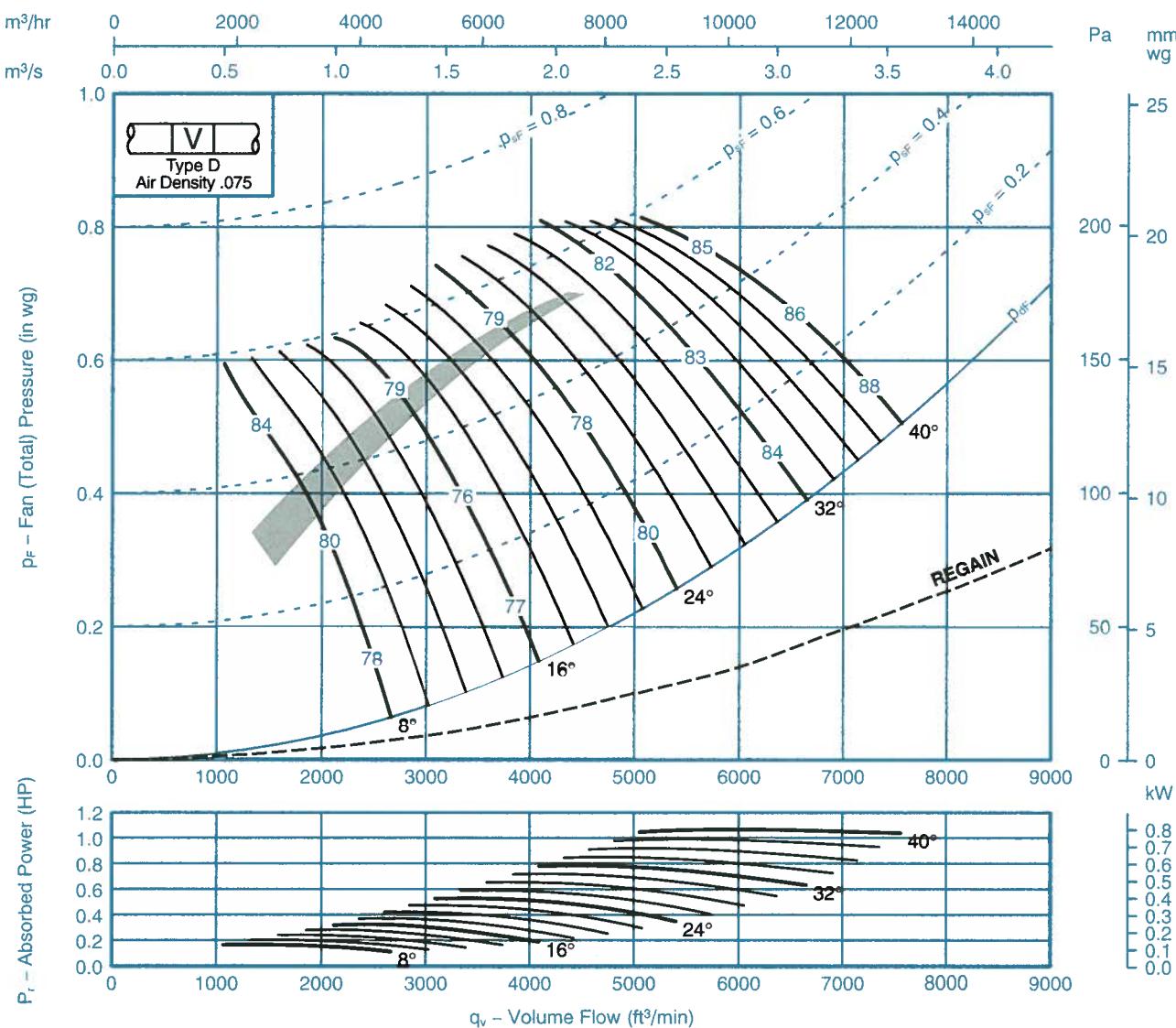
Fan Code: 56JM/20/6/6/
560 mm 1170 RPM
6 Blades 60 Hz



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Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-23	-12	-10	-2	-8	-17	-26	-37
	-20	-9	-8	-4	-8	-14	-18	-24
16°	-15	-6	-5	-6	-11	-16	-21	-29
	-13	-4	-6	-7	-11	-14	-17	-22
24-40°	-7	-5	-7	-10	-12	-15	-18	-21
	-6	-5	-8	-10	-13	-16	-20	-24

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-20	-10	-10	-2	-8	-17	-26	-35
	-18	-7	-8	-3	-8	-13	-21	-23
16°	-14	-4	-5	-6	-11	-16	-21	-28
	-11	-2	-6	-7	-11	-14	-17	-21
24-40°	-5	-4	-7	-9	-11	-14	-16	-20
	-4	-3	-8	-10	-13	-16	-19	-23

SK10295

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-9	-5	-2	0	0	0	0	0



JM AEROFOIL

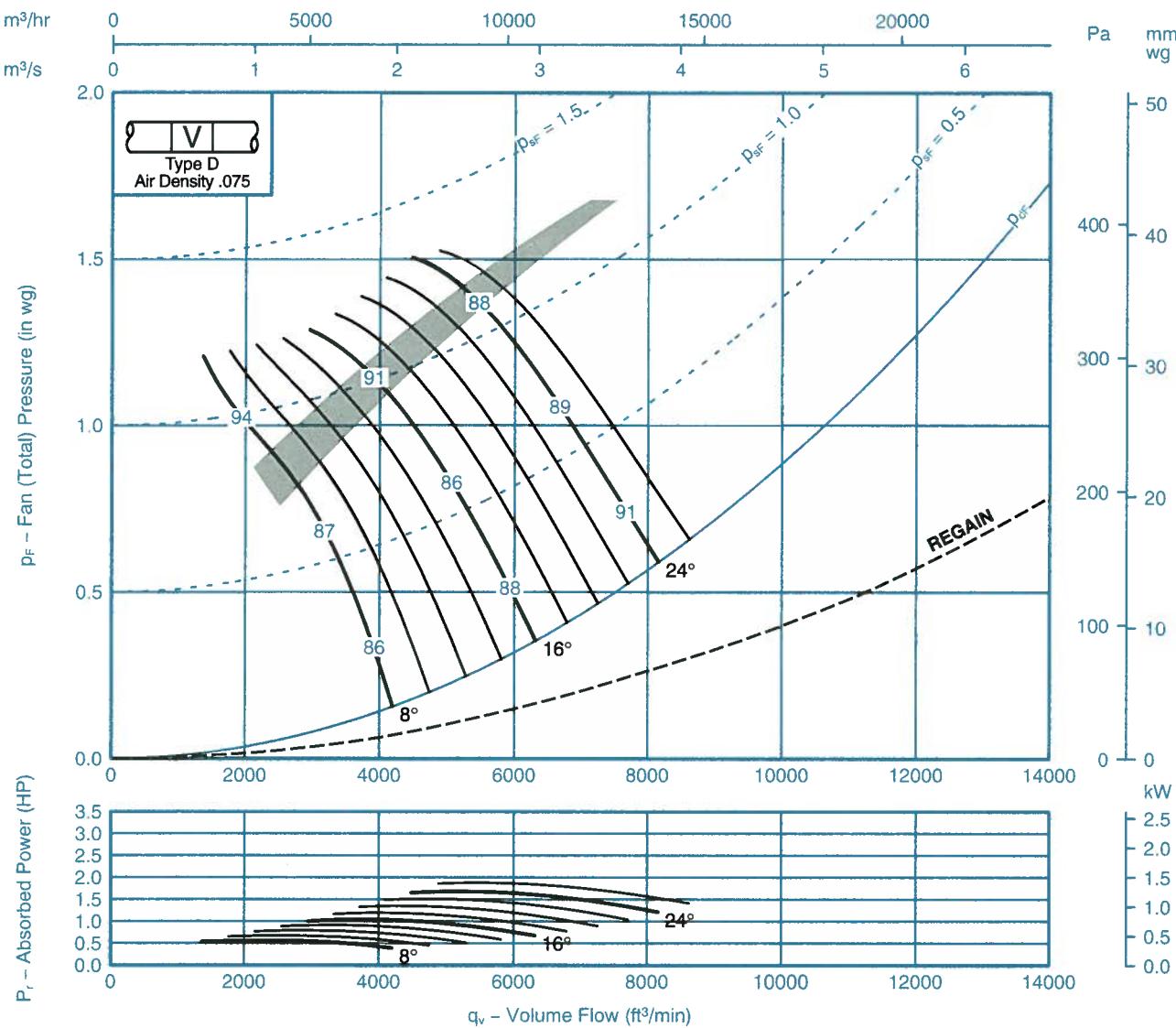
Fan Code: 56JM/16/4/5/
560 mm 1770 RPM
5 Blades 60 Hz



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PH: (513) 874-2400 FAX: (513) 870-6249

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									
Pitch Angle	Octave Band Center Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
8°	-18	-12	-11	-3	-7	-11	-19	-26	
	-17	-7	-11	-7	-6	-8	-13	-19	
16°	-17	-11	-12	-3	-6	-11	-18	-25	
	-12	-3	-9	-8	-11	-13	-16	-21	
24-26°	-7	-4	-10	-8	-11	-13	-16	-20	
	-7	-4	-9	-9	-12	-15	-18	-23	

Outlet Levels									
Pitch Angle	Octave Band Center Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
8°	-17	-10	-11	-3	-6	-11	-18	-24	
	-17	-6	-11	-7	-6	-7	-12	-18	
16°	-16	-11	-13	-3	-6	-11	-17	-24	
	-12	-3	-9	-8	-11	-12	-15	-19	
24-26°	-6	-4	-10	-8	-11	-13	-15	-18	
	-6	-3	-9	-9	-12	-15	-17	-21	

SK10296

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-9	-5	-2	0	0	0	0	0



JM AEROFOIL

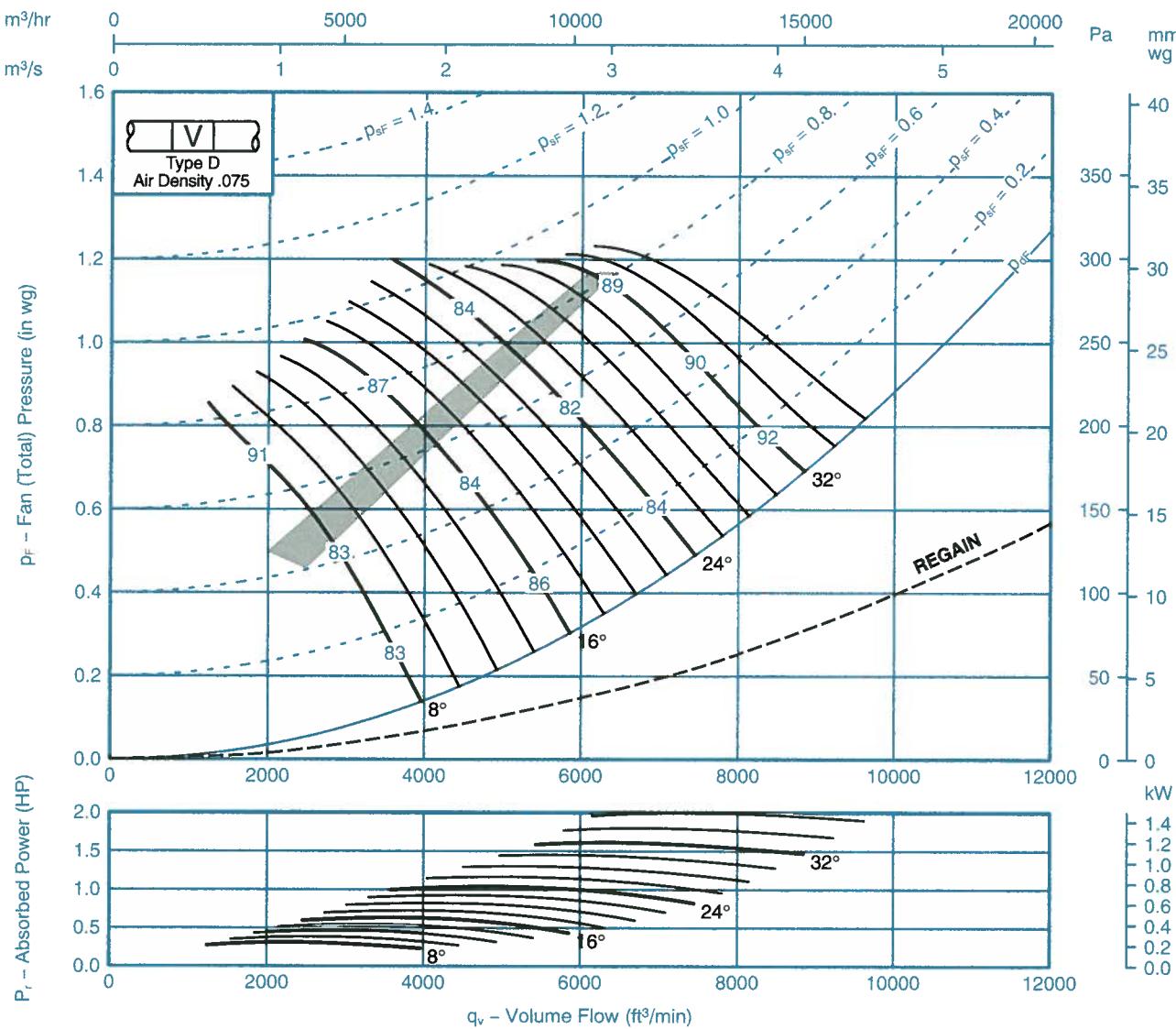
Fan Code: 56JM/20/4/3/
560 mm 1770 RPM
3 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									
Pitch Angle	Octave Band Center Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
8°	-17	-17	-10	-4	-4	-14	-22	-30	
	-6	-12	-7	-7	-7	-12	-14	-17	
16°	-7	-9	-5	-6	-11	-16	-18	-23	
	-4	-10	-6	-8	-11	-16	-18	-22	
24-36°	-5	-9	-6	-9	-9	-14	-17	-21	
	-4	-10	-7	-9	-11	-17	-19	-24	

Outlet Levels									
Pitch Angle	Octave Band Center Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
8°	-14	-16	-10	-4	-4	-13	-21	-28	
	-3	-11	-7	-7	-7	-11	-12	-15	
16°	-5	-9	-5	-6	-10	-16	-18	-22	
	-2	-9	-6	-8	-11	-16	-18	-21	
24-36°	-3	-9	-6	-8	-9	-13	-15	-19	
	-1	-9	-7	-9	-11	-16	-18	-22	

SK10297

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-9	-5	-2	0	0	0	0	0



JM AEROFOIL

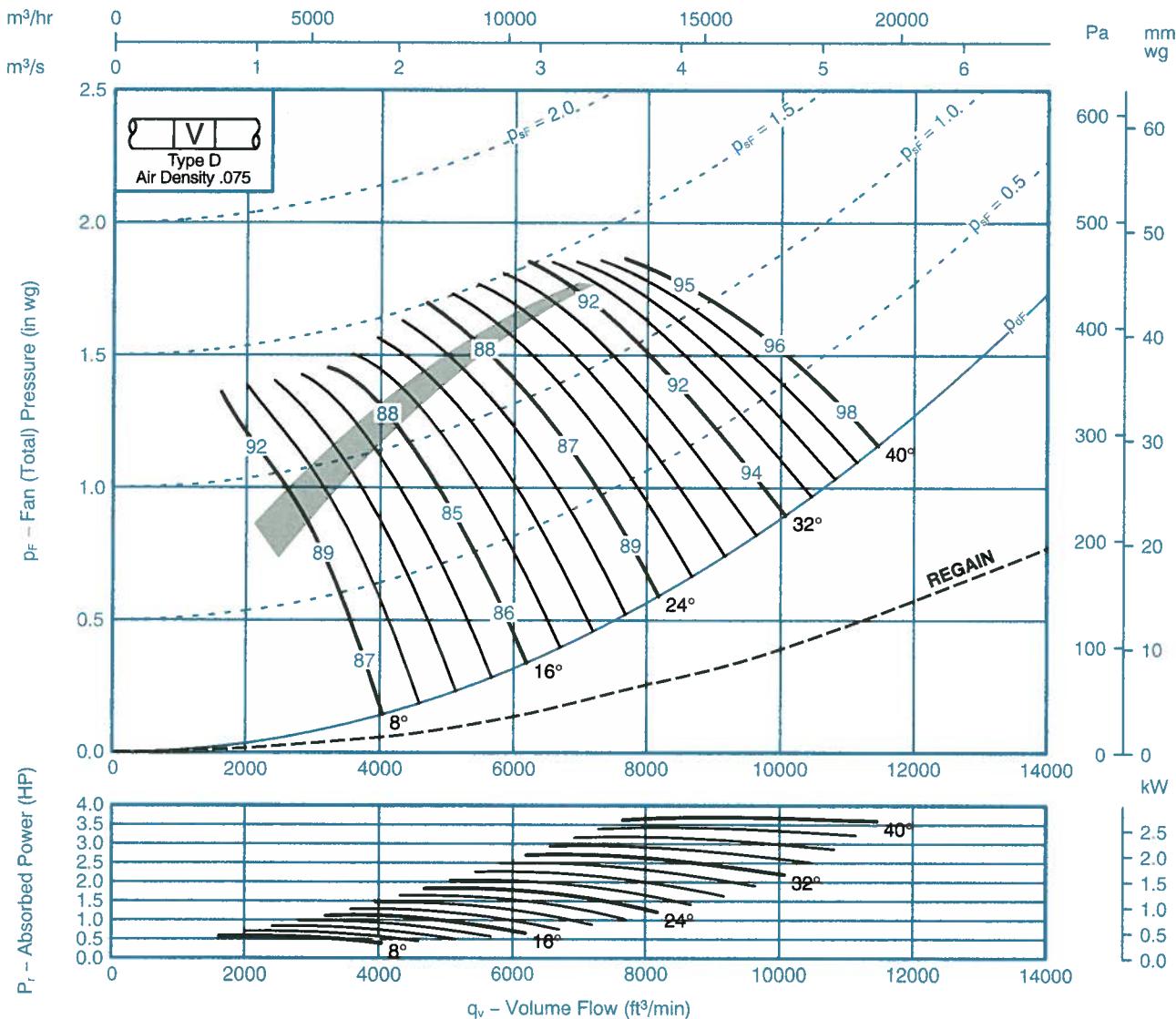
Fan Code: 56JM/20/4/6/...
 560 mm 1770 RPM
 6 Blades 60 Hz



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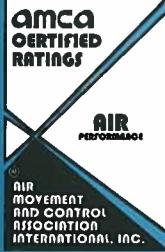
Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-24	-12	-14	-5	-3	-11	-20	-30
	-21	-11	-10	-7	-4	-10	-15	-20
16°	-17	-6	-9	-5	-7	-13	-18	-24
	-13	-5	-8	-7	-8	-13	-15	-19
24-40°	-7	-5	-10	-9	-11	-14	-16	-20
	-6	-5	-9	-9	-12	-15	-18	-22

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-22	-10	-13	-5	-3	-10	-20	-28
	-19	-8	-9	-6	-4	-9	-14	-18
16°	-16	-4	-9	-5	-7	-12	-17	-23
	-12	-3	-7	-7	-8	-13	-15	-18
24-40°	-5	-4	-10	-8	-11	-13	-15	-18
	-4	-3	-8	-9	-12	-15	-17	-21

SK10298

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-9	-5	-2	0	0	0	0	0



JM AEROFOIL

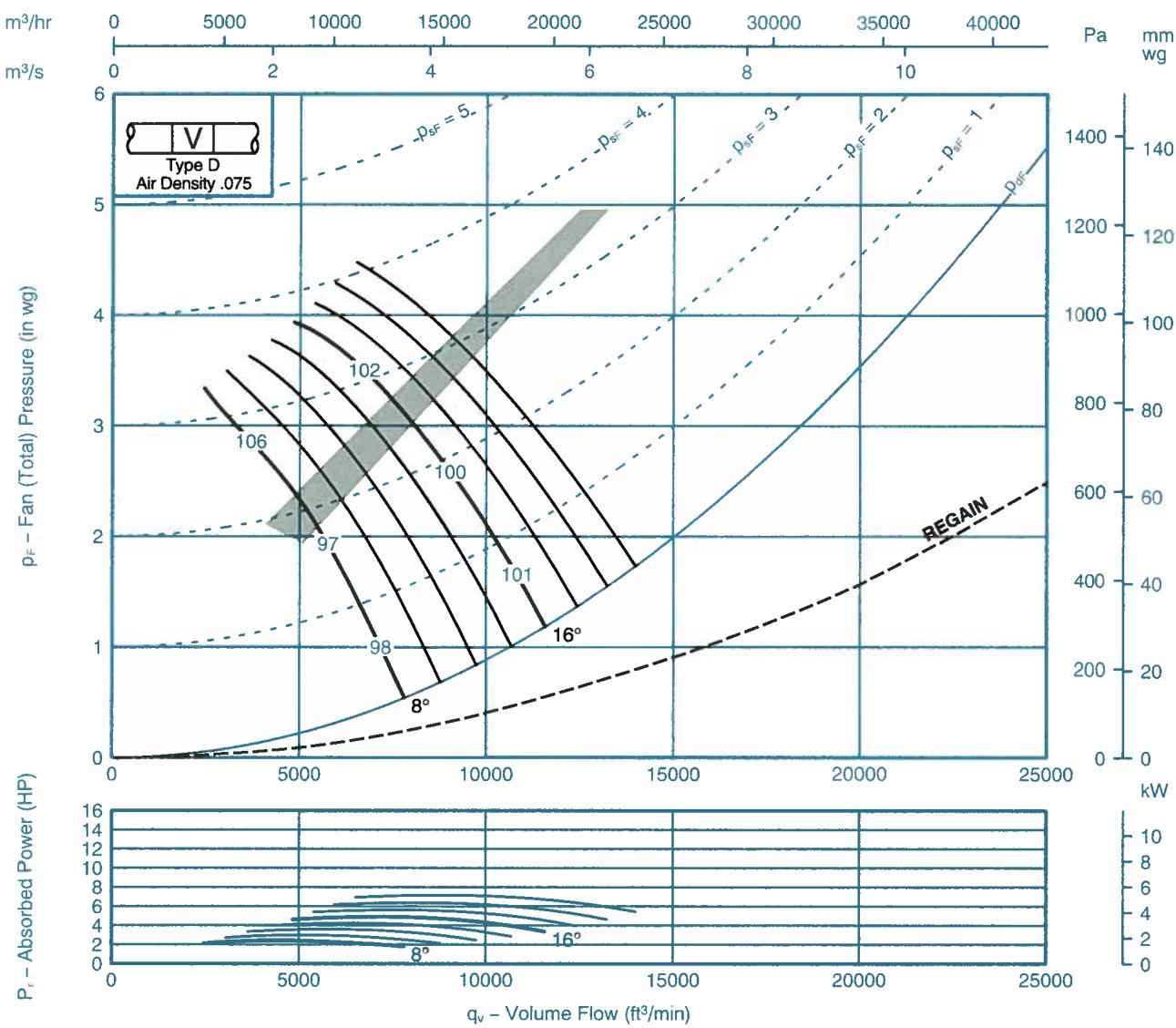
Fan Code: 56JM/20/2/3/
560 mm 3500 RPM
3 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-22	-17	-18	-10	-5	-4	-14	-22
	-14	-6	-13	-7	-8	-7	-12	-14
16-22°	-13	-8	-10	-5	-7	-11	-17	-19
	-10	-5	-11	-6	-8	-11	-17	-19

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-20	-15	-17	-10	-4	-3	-12	-19
	-12	-3	-12	-7	-7	-6	-11	-11
16-22°	-11	-5	-10	-5	-6	-10	-16	-18
	-9	-3	-10	-6	-8	-11	-16	-18

SK10299

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-9	-5	-2	0	0	0	0	0



JM AEROFOIL

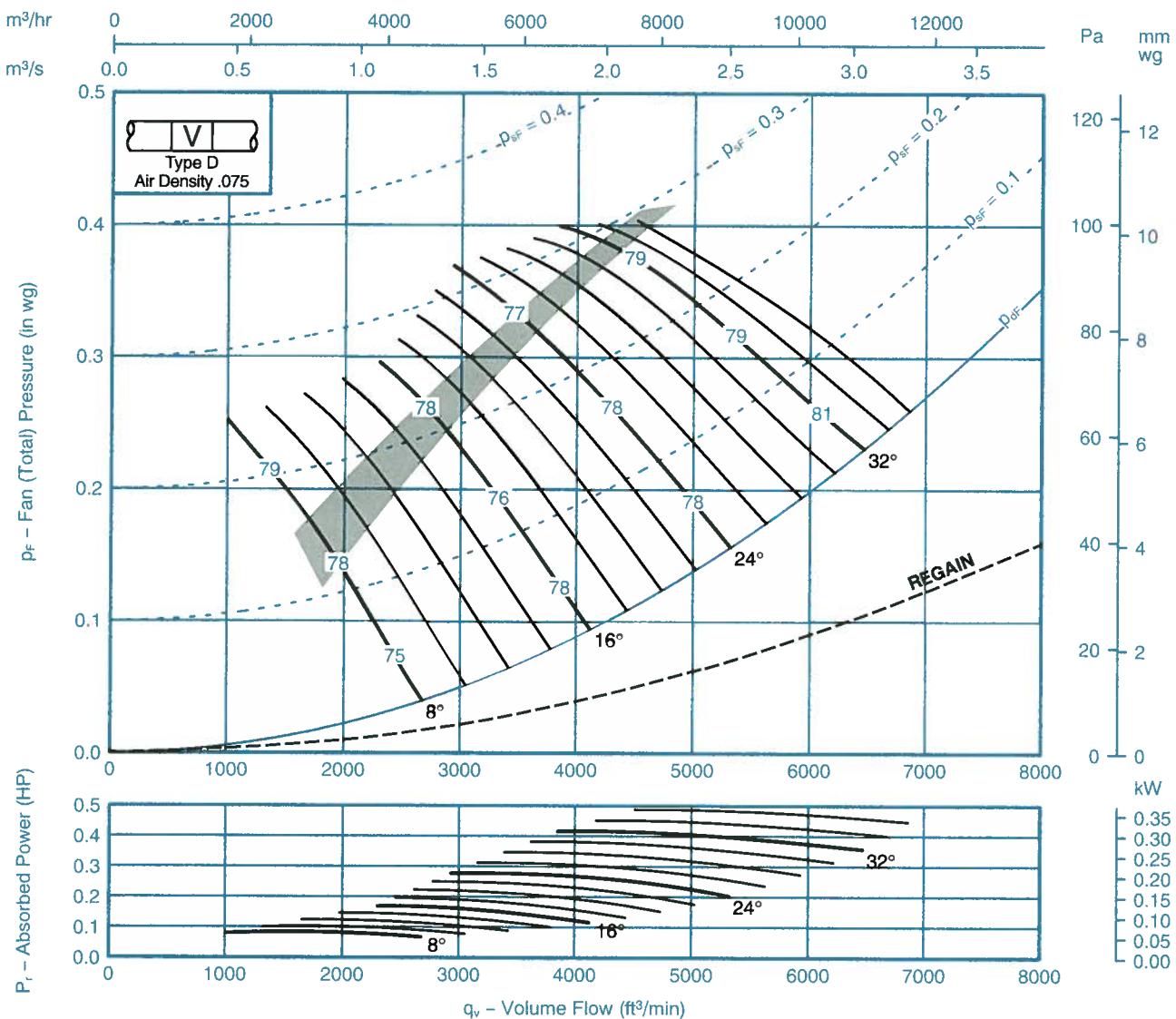
Fan Code: 63JM/20/8/3/
630 mm 875 RPM
3 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-7	-4	-8	-13	-20	-26	-34
	-3	-7	-8	-10	-12	-16	-21	-29
16°	-7	-5	-5	-10	-14	-21	-27	-33
	-1	-8	-13	-16	-16	-20	-25	-30
24-36°	-2	-7	-11	-14	-16	-19	-22	-27
	-1	-8	-13	-16	-19	-23	-26	-30

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-6	-7	-4	-8	-13	-20	-25	-31
	-1	-7	-9	-10	-12	-15	-21	-27
16°	-5	-5	-5	-10	-14	-21	-26	-31
	0	-8	-13	-16	-16	-20	-24	-28
24-36°	0	-7	-11	-14	-16	-19	-21	-25
	0	-8	-13	-16	-19	-22	-24	-27

SK10301

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0



JM AEROFOIL

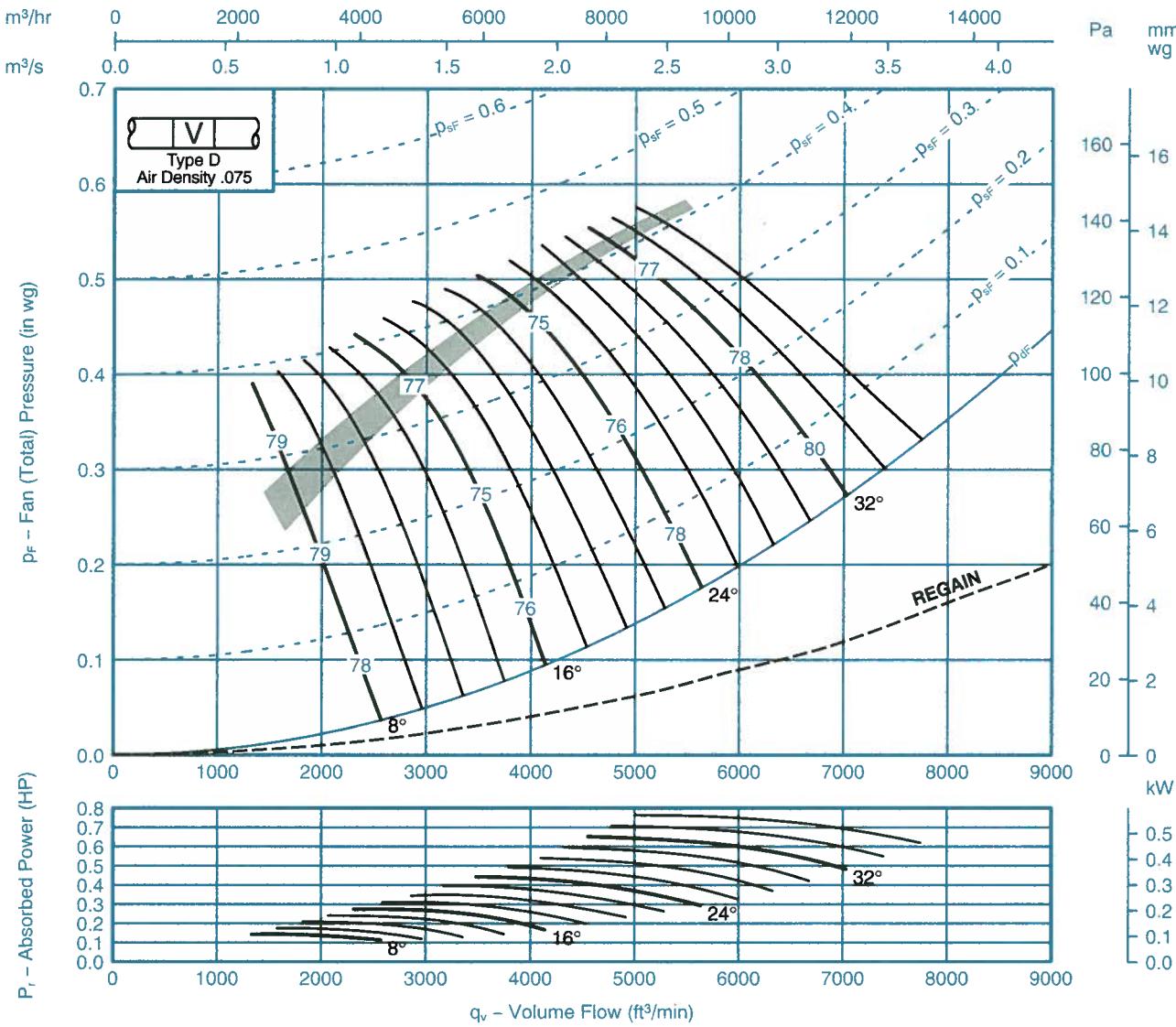
Fan Code: 63JM/20/8/6/
630 mm 875 RPM
6 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-7	-4	-8	-13	-20	-26	-34
	-10	-8	-5	-6	-10	-17	-23	-32
16°	-8	-7	-5	-8	-10	-18	-25	-32
	-4	-7	-7	-10	-11	-15	-20	-27
24-36°	-4	-7	-7	-12	-14	-18	-22	-26
	-3	-6	-9	-12	-15	-19	-24	-28

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-6	-7	-4	-8	-13	-20	-25	-32
	-9	-8	-5	-6	-10	-16	-23	-31
16°	-7	-7	-5	-8	-10	-18	-24	-30
	-4	-7	-7	-10	-11	-14	-20	-25
24-36°	-3	-7	-7	-12	-14	-18	-24	-25
	-2	-6	-9	-12	-15	-19	-23	-26

SK10302

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0



JM AEROFOIL

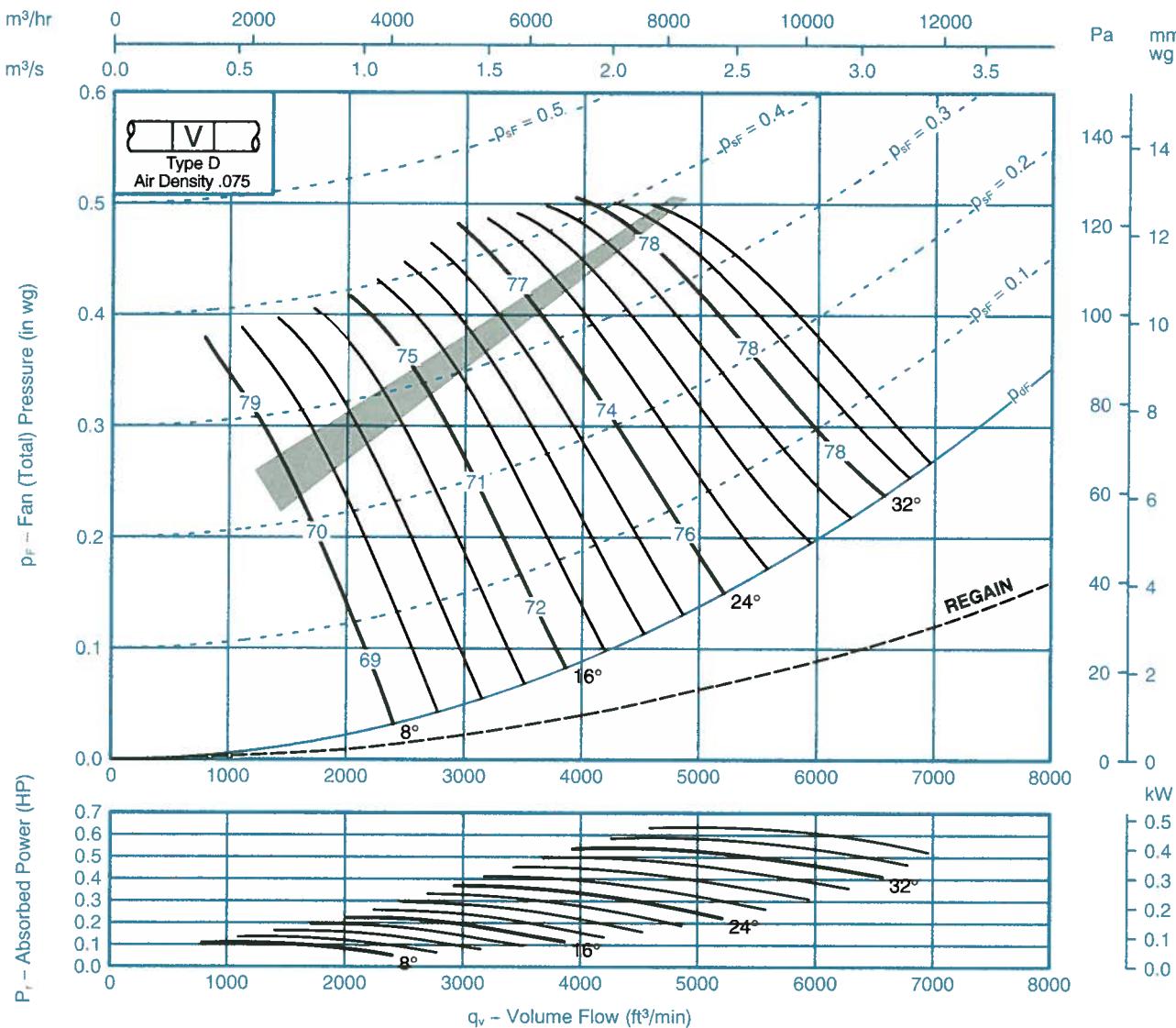
Fan Code: 63JM/25/8/6/
630 mm 875 RPM
6 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-8	-4	-6	-11	-17	-26	-34
	-5	-7	-8	-10	-11	-10	-19	-25
16°	-6	-5	-6	-10	-10	-14	-21	-27
	-4	-6	-9	-12	-13	-14	-22	-28
24-36°	-5	-5	-7	-11	-13	-17	-21	-24
	-3	-6	-8	-13	-15	-18	-24	-28

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-7	-4	-6	-11	-17	-26	-32
	-3	-6	-8	-10	-11	-9	-17	-23
16°	-5	-5	-6	-9	-10	-13	-21	-26
	-2	-5	-9	-12	-13	-14	-22	-27
24-36°	-3	-5	-7	-11	-13	-15	-16	-23
	0	-5	-8	-13	-15	-18	-20	-27

SK10303

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0



JM AEROFOIL

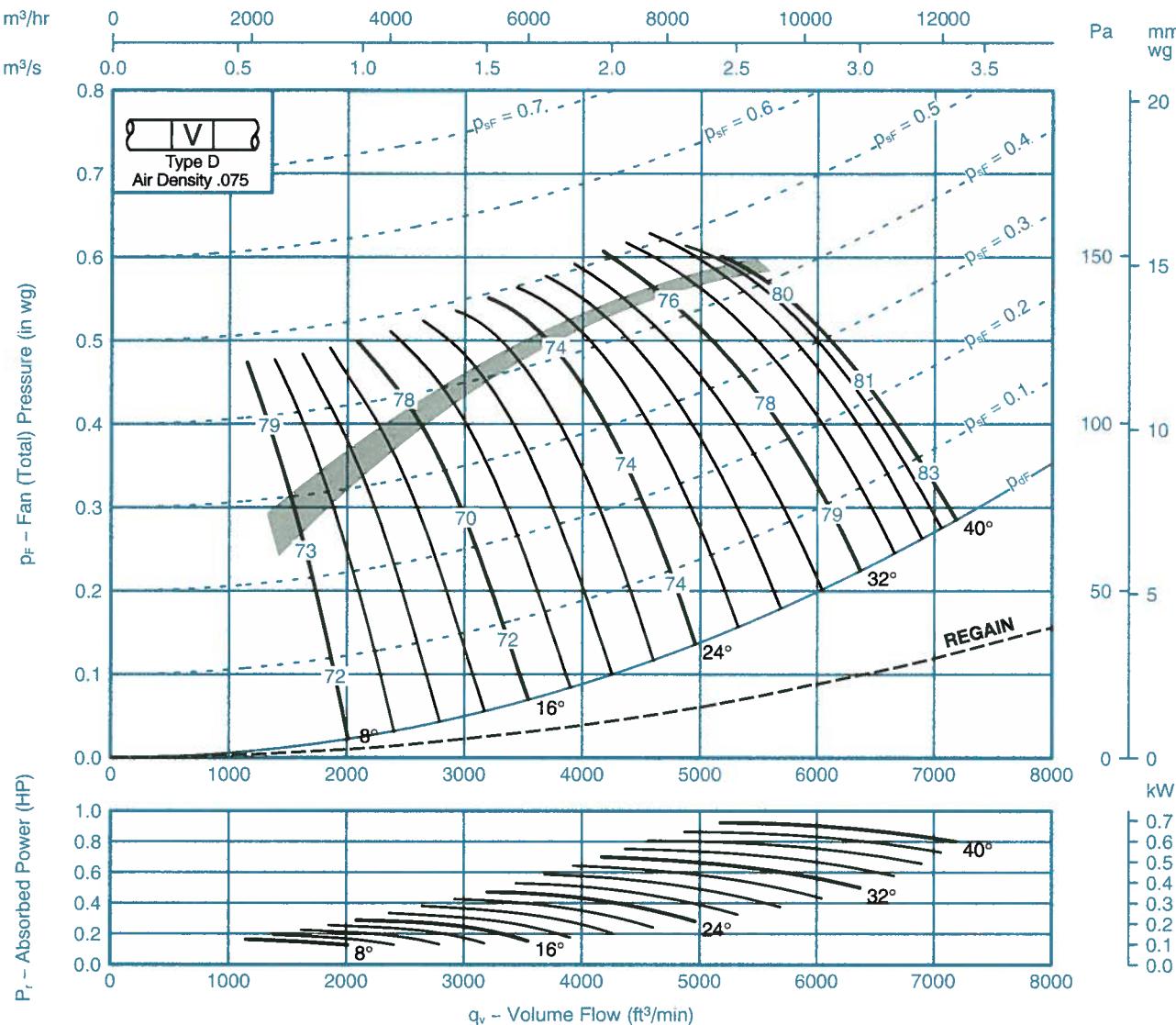
Fan Code: 63JM/25/8/9/...
630 mm 875 RPM
9 Blades 60 Hz



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Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-9	-6	-4	-9	-16	-25	-33
	-10	-9	-7	-6	-8	-9	-18	-26
16°	-11	-7	-4	-7	-10	-16	-23	-30
	-8	-4	-8	-10	-10	-11	-20	-26
24-40°	-6	-4	-7	-12	-13	-16	-20	-23
	-5	-5	-7	-13	-14	-17	-23	-28

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-7	-6	-4	-9	-15	-24	-31
	-9	-7	-7	-6	-8	-8	-17	-24
16°	-9	-5	-4	-7	-9	-15	-23	-29
	-7	-2	-7	-10	-10	-11	-20	-26
24-40°	-5	-3	-6	-12	-13	-15	-19	-22
	-3	-3	-7	-13	-14	-17	-22	-27

SK10304

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0



JM AEROFOIL

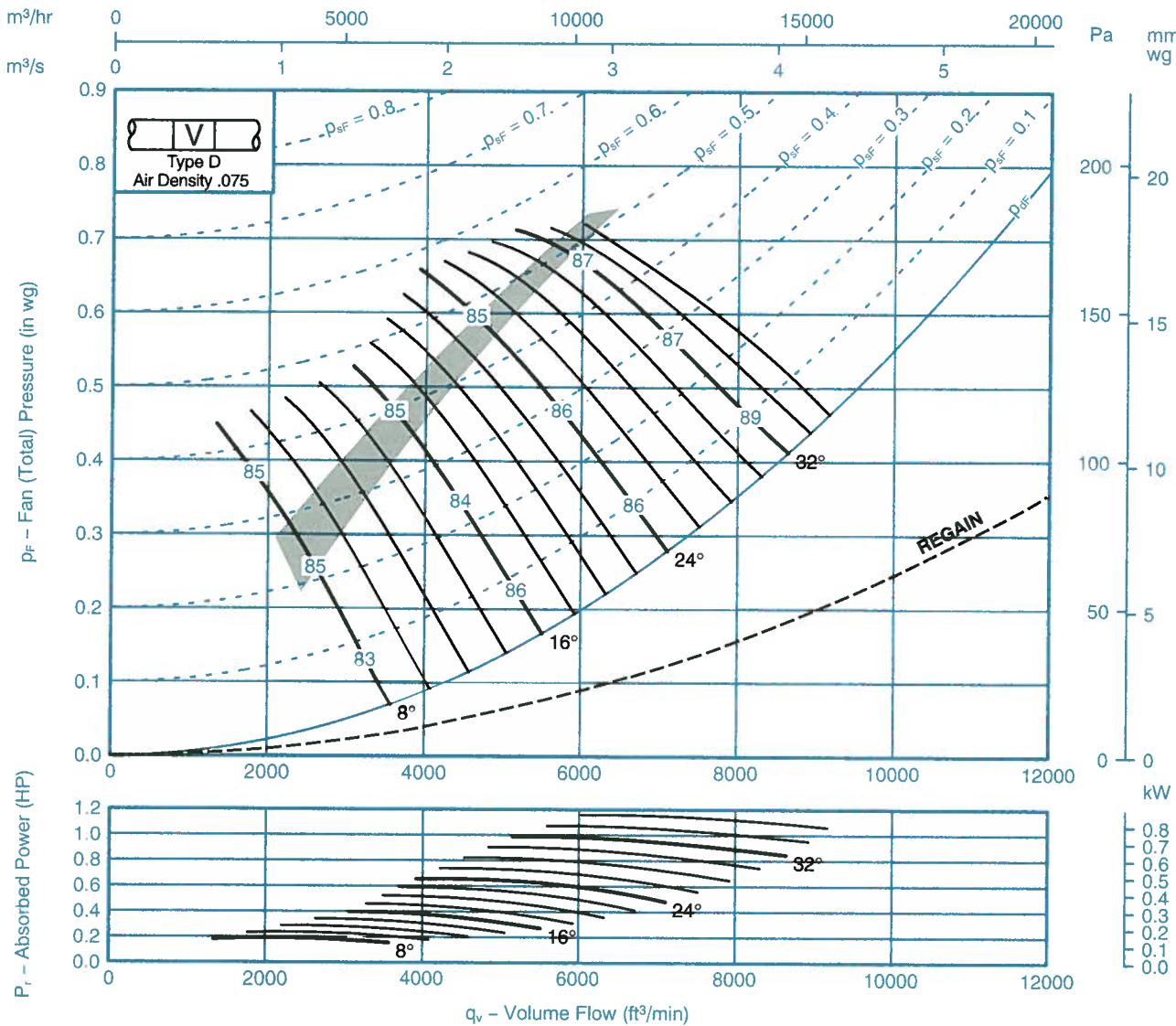
Fan Code: 63JM/20/6/3/
630 mm 1170 RPM
3 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-7	-10	-5	-6	-12	-17	-24	-31
	-2	-11	-8	-10	-13	-15	-20	-27
16°	-6	-10	-4	-8	-14	-16	-25	-31
	-1	-11	-11	-17	-19	-19	-24	-30
24-36°	-2	-9	-9	-14	-16	-19	-22	-26
	-1	-10	-11	-17	-20	-22	-26	-29

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-5	-10	-5	-5	-12	-17	-23	-28
	-1	-11	-8	-10	-13	-14	-19	-25
16°	-4	-10	-4	-8	-14	-16	-24	-28
	0	-11	-11	-17	-19	-19	-23	-28
24-36°	-1	-9	-9	-14	-16	-19	-20	-24
	0	-10	-11	-16	-20	-22	-24	-27

SK10305

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0



JM AEROFOIL

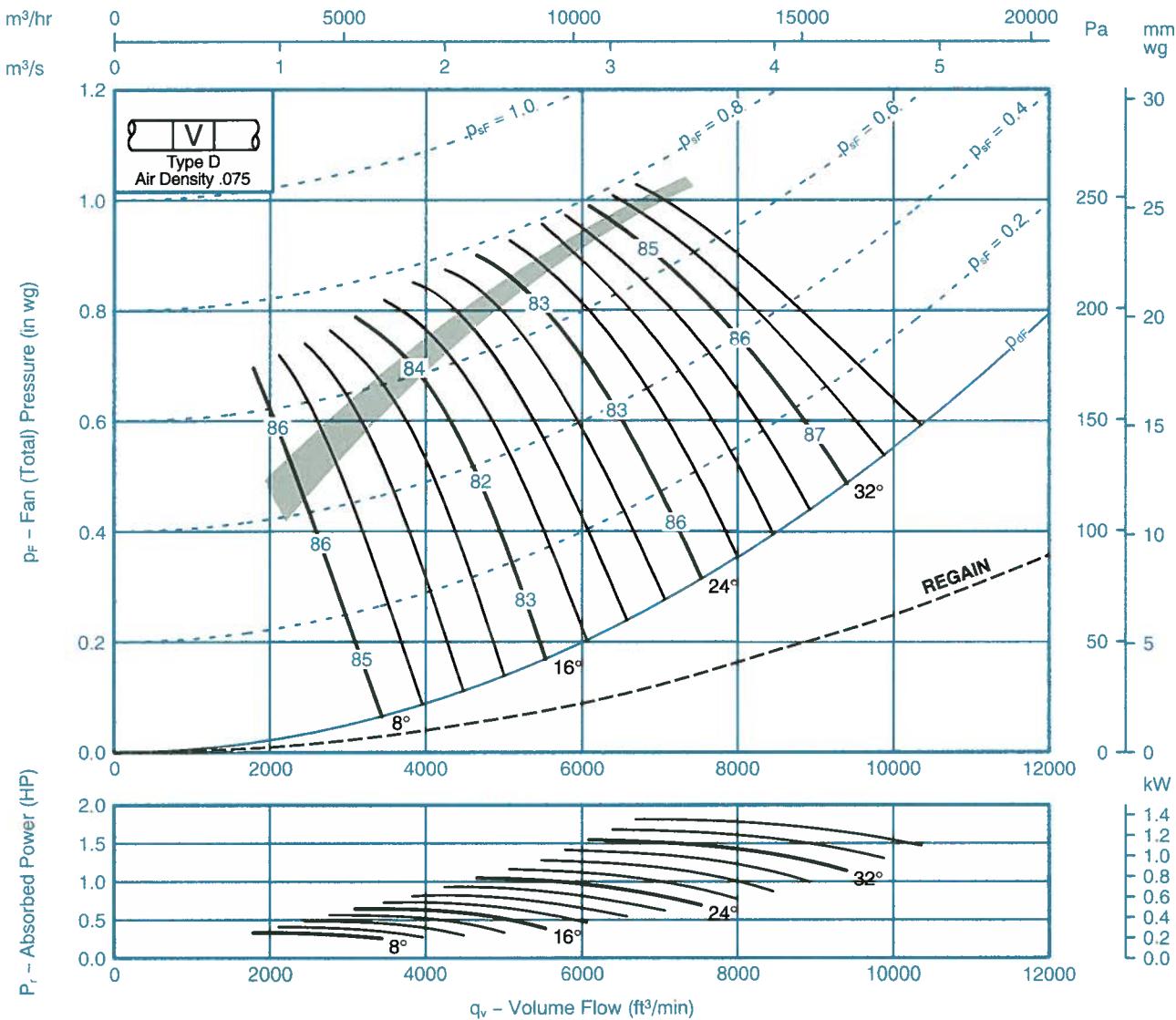
Fan Code: 63JM/20/6/6/
630 mm 1170 RPM
6 Blades 60 Hz



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Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-9	-8	-5	-6	-12	-17	-23	-31
	-13	-9	-6	-4	-8	-14	-20	-29
16°	-12	-7	-5	-6	-9	-14	-22	-29
	-9	-4	-7	-9	-11	-13	-18	-25
24-40°	-7	-4	-7	-10	-14	-16	-20	-24
	-5	-4	-8	-12	-15	-18	-23	-27

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-6	-4	-6	-12	-17	-23	-29
	-13	-8	-6	-4	-8	-12	-20	-27
16°	-11	-7	-5	-6	-9	-14	-21	-27
	-8	-4	-7	-9	-11	-13	-17	-23
24-40°	-6	-4	-7	-10	-14	-16	-20	-23
	-4	-3	-8	-12	-15	-18	-22	-25

SK10306

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0



JM AEROFOIL

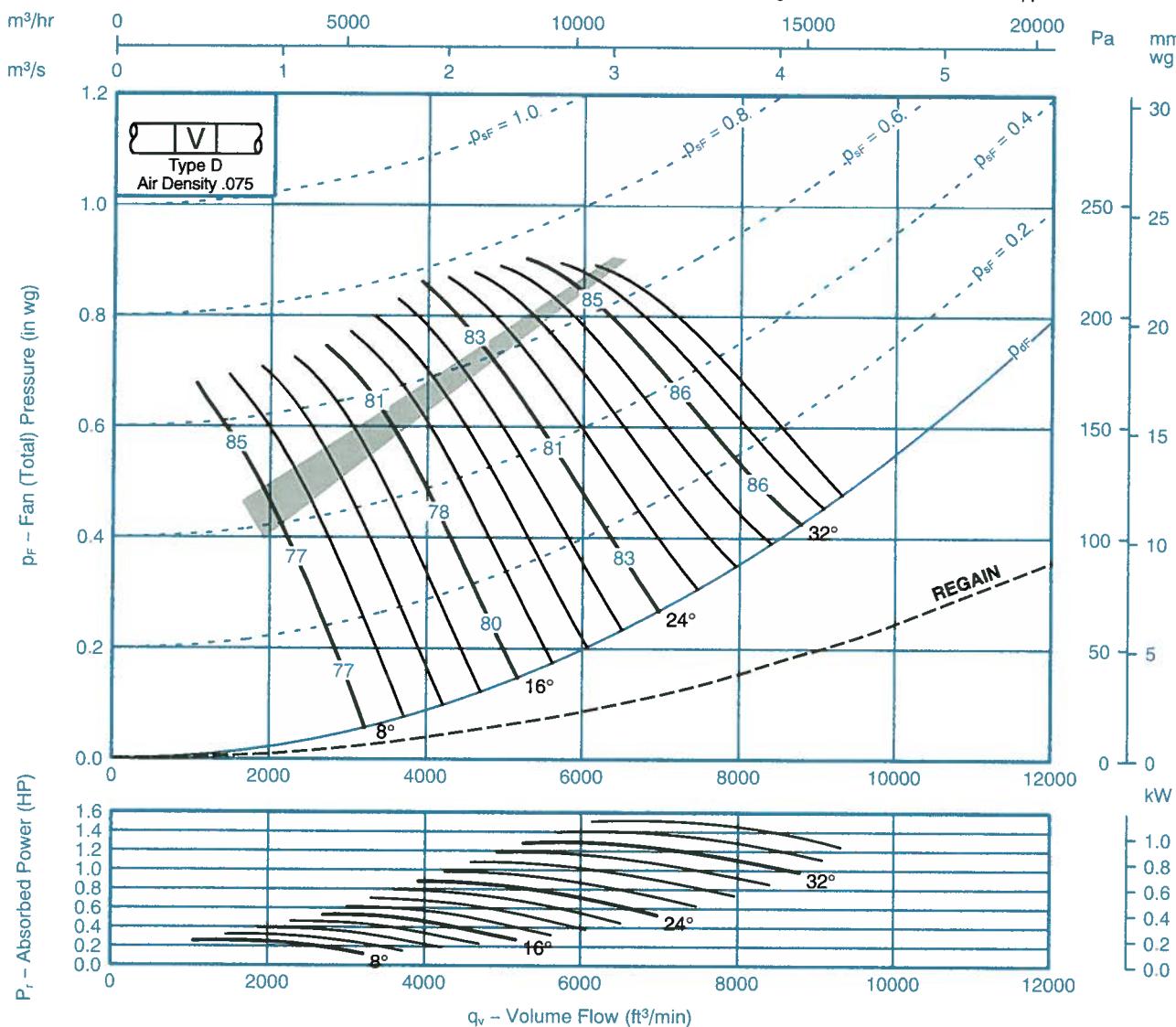
Fan Code: 63JM/25/6/6/
630 mm 1170 RPM
6 Blades 60 Hz



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Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-9	-6	-5	-8	-15	-22	-30
	-5	-7	-8	-10	-10	-10	-15	-23
16°	-6	-6	-6	-11	-10	-13	-19	-24
	-4	-5	-9	-13	-13	-14	-19	-26
24-36°	-5	-5	-7	-11	-13	-16	-21	-23
	-3	-5	-9	-13	-15	-18	-23	-27

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-7	-6	-5	-8	-15	-22	-28
	-4	-5	-8	-10	-10	-9	-14	-21
16°	-5	-5	-6	-11	-9	-12	-19	-24
	-2	-4	-8	-13	-13	-14	-19	-25
24-36°	-3	-4	-7	-10	-12	-15	-20	-22
	-1	-3	-8	-13	-15	-18	-22	-26

SK10307

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0



JM AEROFOIL

Fan Code: 63JM/25/6/9/...

630 mm 1170 RPM

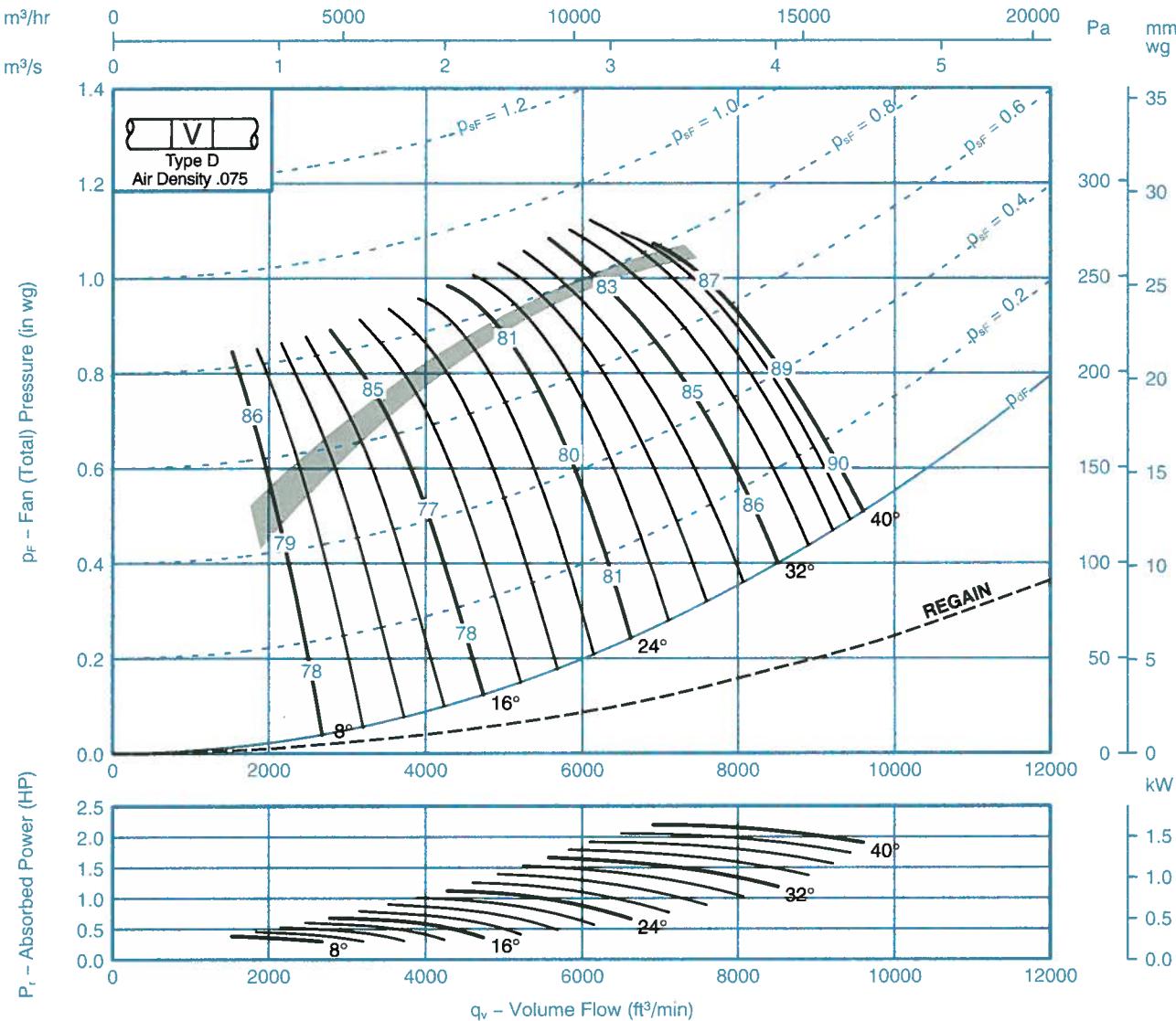
9 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
PH: (513) 874-2400 FAX: (513) 870-6249

Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-8	-9	-4	-6	-13	-21	-29
	-11	-9	-8	-7	-7	-8	-14	-23
16°	-11	-7	-8	-5	-8	-13	-20	-27
	-8	-5	-7	-9	-10	-11	-16	-24
24-40°	-6	-5	-7	-11	-13	-15	-20	-22
	-4	-6	-7	-12	-14	-17	-22	-27

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-9	-7	-8	-4	-6	-13	-21	-28
	-10	-7	-7	-7	-7	-7	-13	-21
16°	-10	-5	-8	-5	-8	-13	-20	-26
	-7	-3	-6	-9	-10	-11	-15	-23
24-40°	-5	-3	-6	-10	-13	-14	-18	-20
	-2	-3	-6	-12	-14	-17	-21	-26

SK10308

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0



JM AEROFOIL

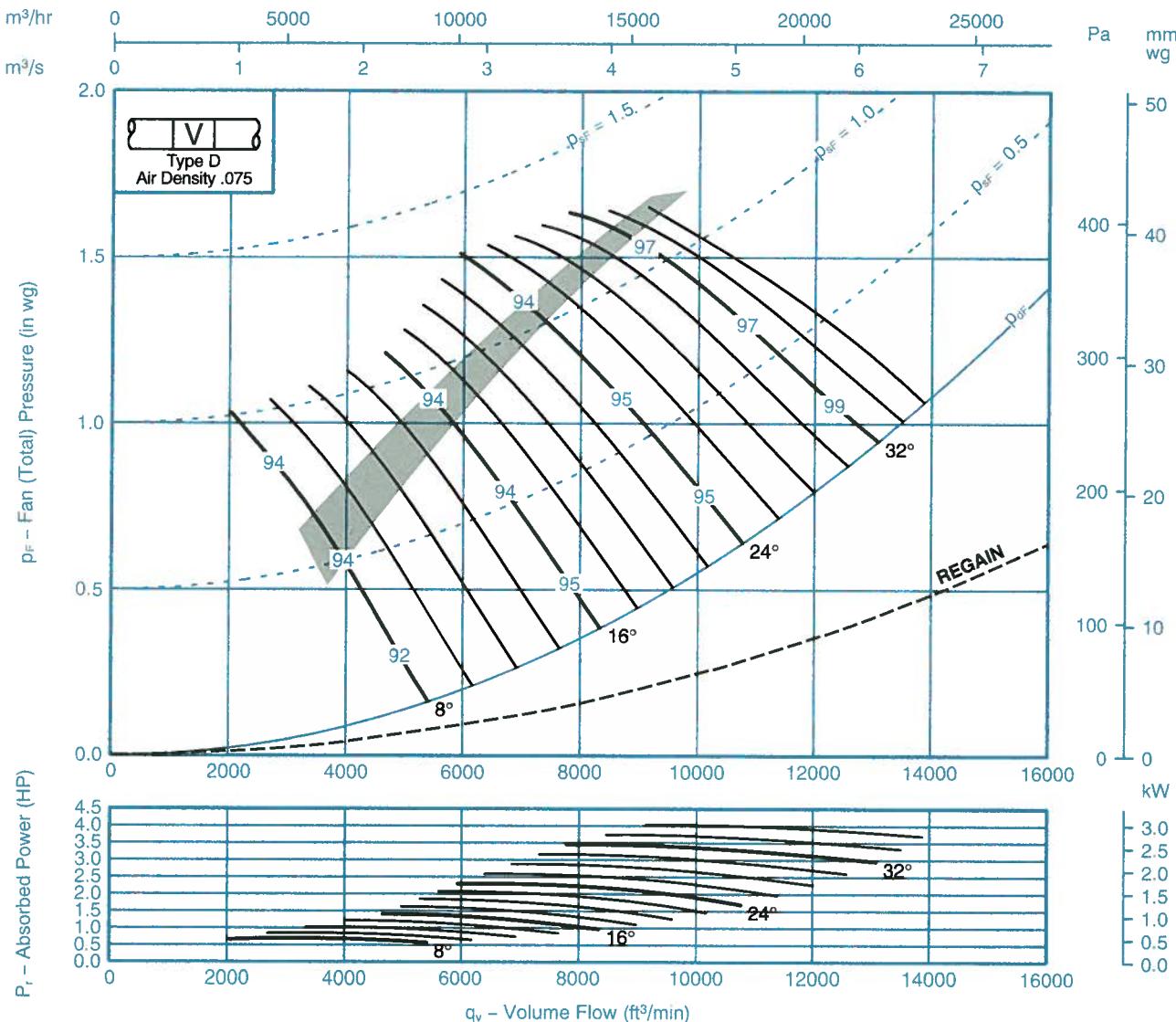
Fan Code: 63JM/20/4/3/
630 mm 1770 RPM
3 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-13	-8	-5	-8	-14	-21	-27
	-3	-12	-9	-10	-11	-13	-17	-23
16°	-6	-13	-6	-6	-11	-15	-21	-28
	-1	-10	-10	-15	-19	-18	-22	-27
24-36°	-2	-9	-9	-13	-16	-17	-21	-24
	-2	-9	-10	-15	-19	-21	-25	-28

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-5	-12	-7	-4	-8	-13	-20	-24
	-2	-12	-9	-10	-11	-12	-17	-21
16°	-5	-12	-6	-5	-11	-14	-20	-25
	-1	-10	-10	-15	-19	-18	-21	-25
24-36°	-1	-8	-9	-13	-16	-17	-20	-22
	0	-8	-10	-15	-19	-20	-23	-25

SK10309

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0



JM AEROFOIL

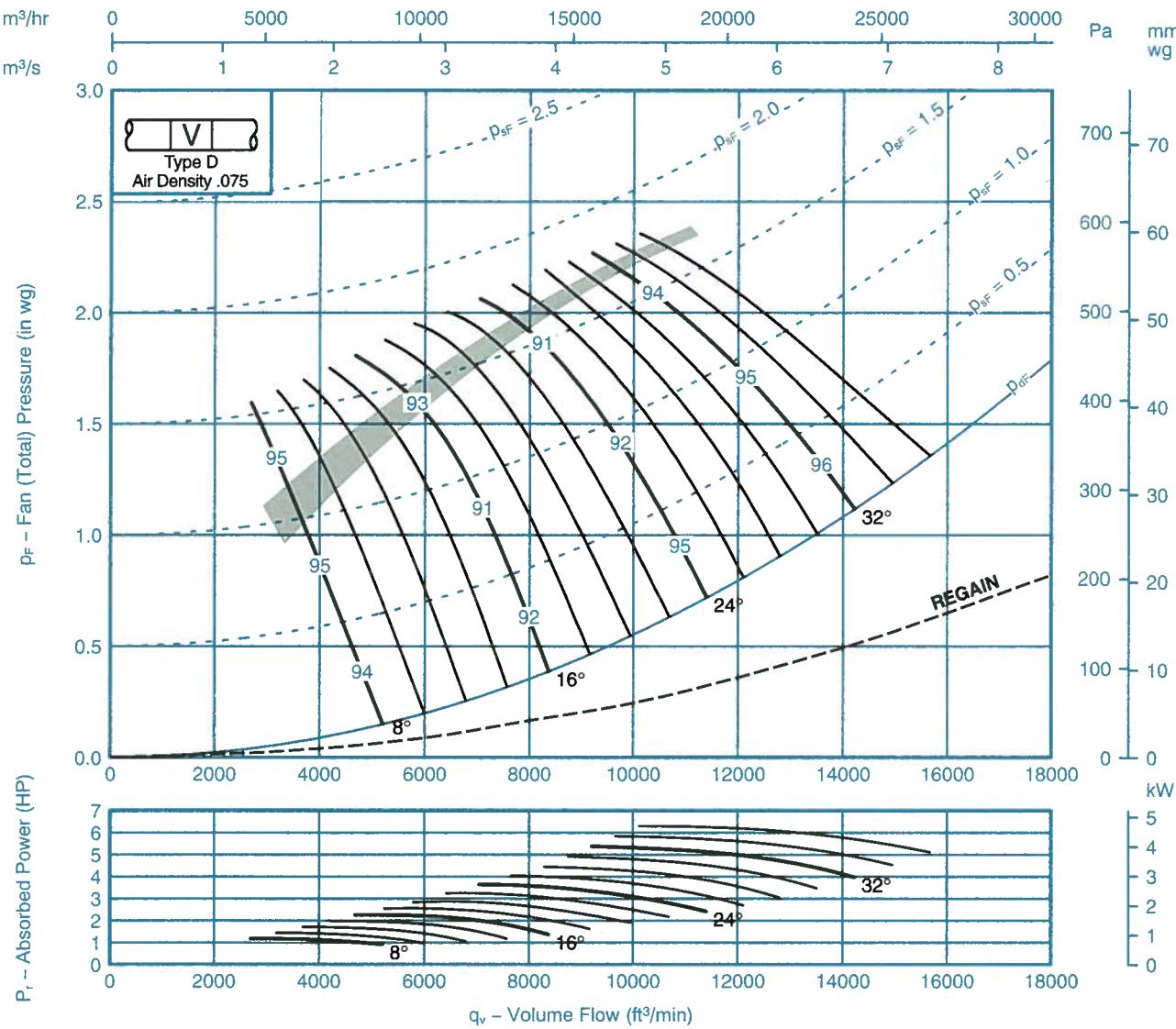
Fan Code: 63JM/20/4/6/
630 mm 1770 RPM
6 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12	-8	-8	-4	-9	-13	-20	-27
	-15	-11	-9	-5	-6	-10	-17	-24
16°	-14	-8	-7	-5	-8	-10	-18	-25
	-11	-5	-7	-7	-10	-11	-15	-21
24-36°	-8	-4	-8	-7	-12	-14	-18	-22
	-6	-4	-8	-10	-14	-16	-21	-25

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-7	-7	-4	-9	-13	-19	-24
	-15	-10	-9	-5	-6	-8	-16	-22
16°	-13	-8	-7	-5	-8	-10	-17	-23
	-11	-5	-7	-7	-10	-11	-14	-19
24-36°	-7	-4	-8	-7	-12	-14	-18	-21
	-6	-4	-7	-10	-14	-16	-20	-23

SK10310

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0



JM AEROFOIL

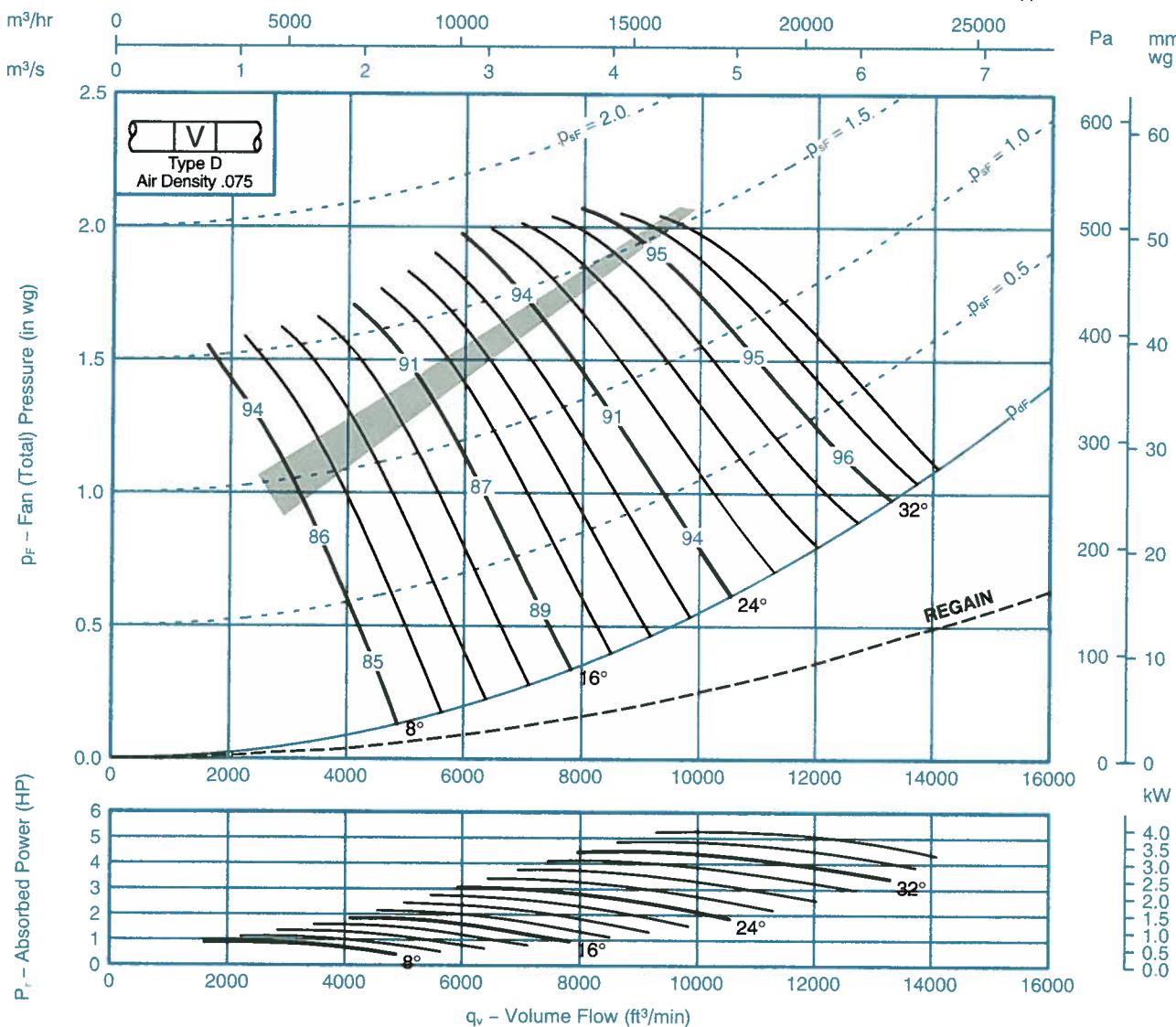
Fan Code: 63JM/25/4/6/
630 mm 1770 RPM
6 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-11	-9	-5	-6	-11	-18	-26
	-9	-6	-8	-9	-10	-11	-10	-19
16°	-8	-7	-6	-7	-11	-11	-15	-22
	-7	-5	-7	-10	-13	-14	-15	-23
24-36°	-5	-7	-7	-8	-13	-15	-19	-23
	-4	-5	-9	-10	-15	-17	-20	-26

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-9	-7	-5	-6	-10	-17	-25
	-8	-5	-7	-9	-10	-10	-9	-17
16°	-7	-6	-6	-7	-11	-10	-15	-21
	-5	-4	-6	-10	-13	-14	-14	-22
24-36°	-3	-5	-6	-8	-13	-14	-18	-21
	-2	-3	-7	-10	-15	-17	-19	-25

SK10311

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0



JM AEROFOIL

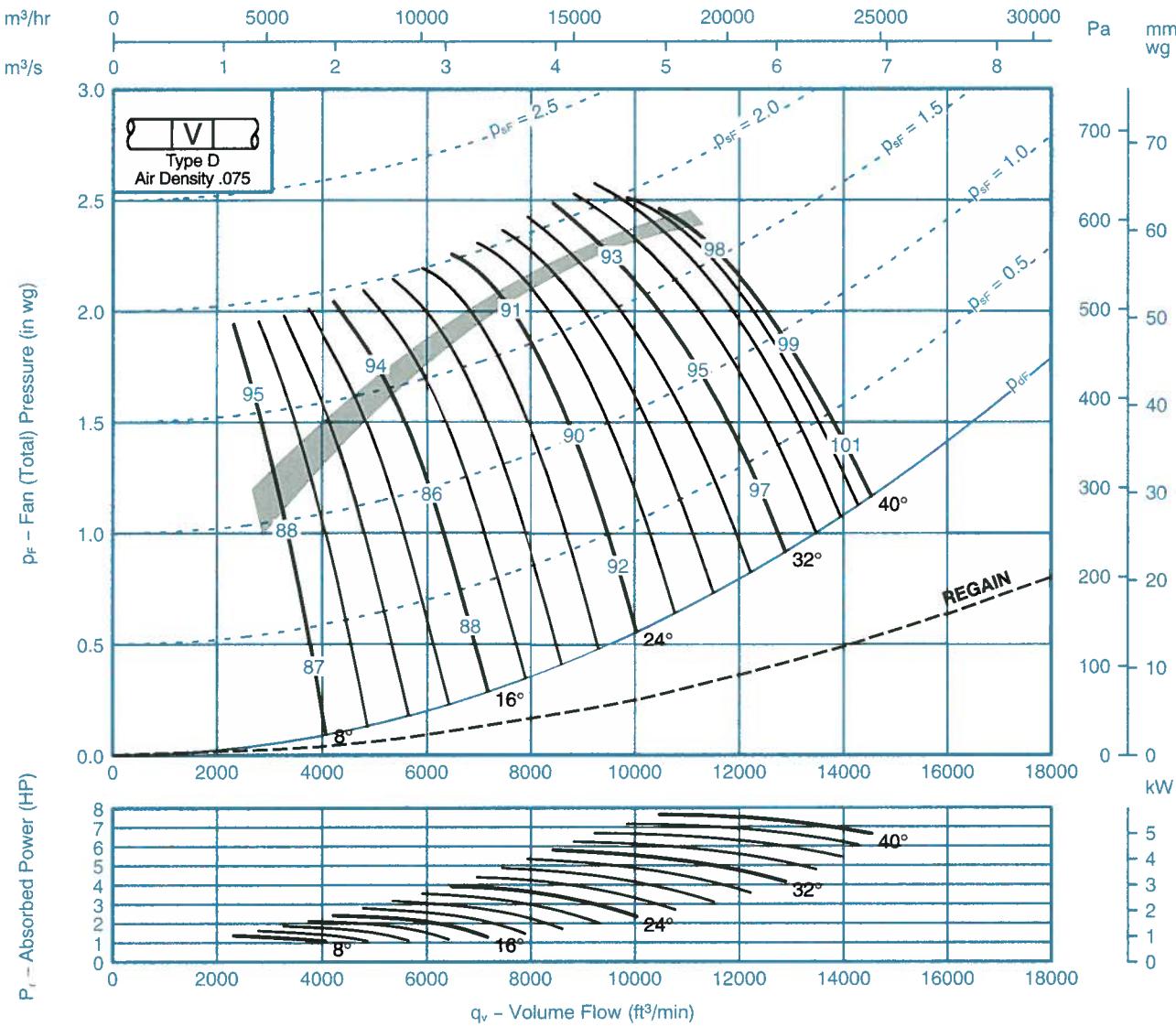
Fan Code: 63JM/25/4/9/...
630 mm 1770 RPM
9 Blades 60 Hz



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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									
Pitch Angle	Octave Band Center Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
8°	-14	-11	-9	-6	-5	-9	-16	-25	
	-13	-10	-9	-7	-7	-8	-9	-19	
16°	-12	-11	-7	-5	-7	-10	-16	-23	
	-8	-9	-5	-8	-11	-11	-11	-21	
24-40°	-6	-8	-6	-8	-13	-14	-18	-22	
	-4	-7	-7	-9	-15	-16	-20	-26	

Outlet Levels									
Pitch Angle	Octave Band Center Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
8°	-12	-10	-7	-6	-4	-8	-15	-23	
	-12	-10	-7	-7	-6	-7	-8	-17	
16°	-11	-11	-6	-5	-7	-9	-15	-22	
	-7	-9	-3	-8	-11	-11	-11	-20	
24-40°	-4	-7	-4	-7	-13	-13	-16	-20	
	-2	-7	-5	-9	-15	-16	-19	-25	

SK10312

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0



JM AEROFOIL

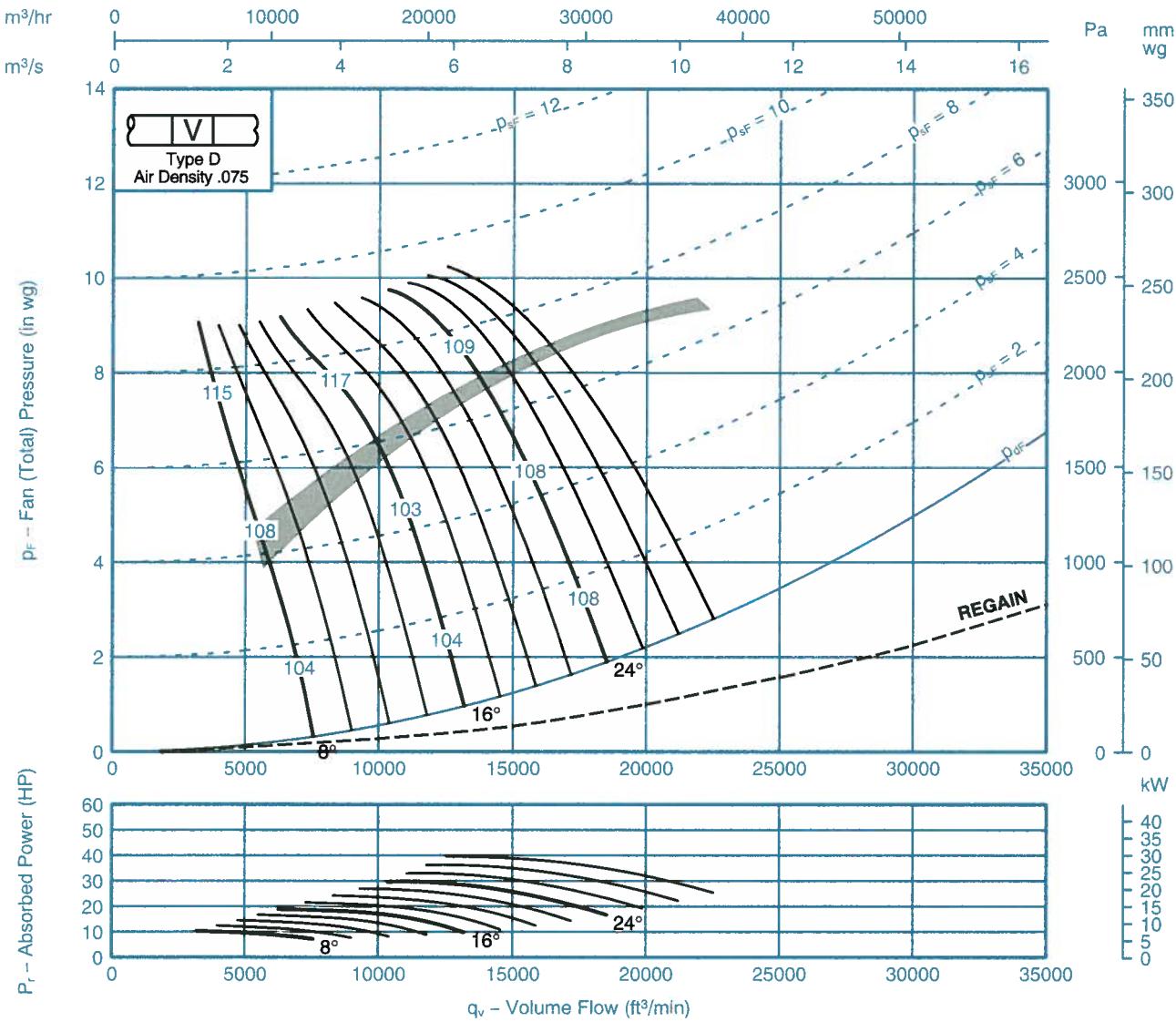
Fan Code: 63JM/31/2/9/...
630 mm 3500 RPM
9 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-14	-11	-9	-7	-5	-9	-16
	-15	-13	-10	-9	-8	-7	-8	-9
16°	-14	-12	-11	-7	-5	-7	-10	-16
	-10	-9	-9	-6	-9	-11	-12	-12
24-30°	-8	-6	-9	-6	-9	-14	-15	-18
	-7	-5	-8	-8	-10	-16	-17	-21

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-13	-10	-7	-7	-6	-4	-15
	-14	-13	-10	-7	-7	-7	-6	-7
16°	-13	-12	-11	-11	-6	-5	-7	-10
	-9	-9	-9	-9	-4	-8	-11	-11
24-30°	-7	-6	-9	-5	-5	-8	-13	-17
	-4	-5	-8	-6	-6	-10	-16	-20

SK10631

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0



JM AEROFOIL

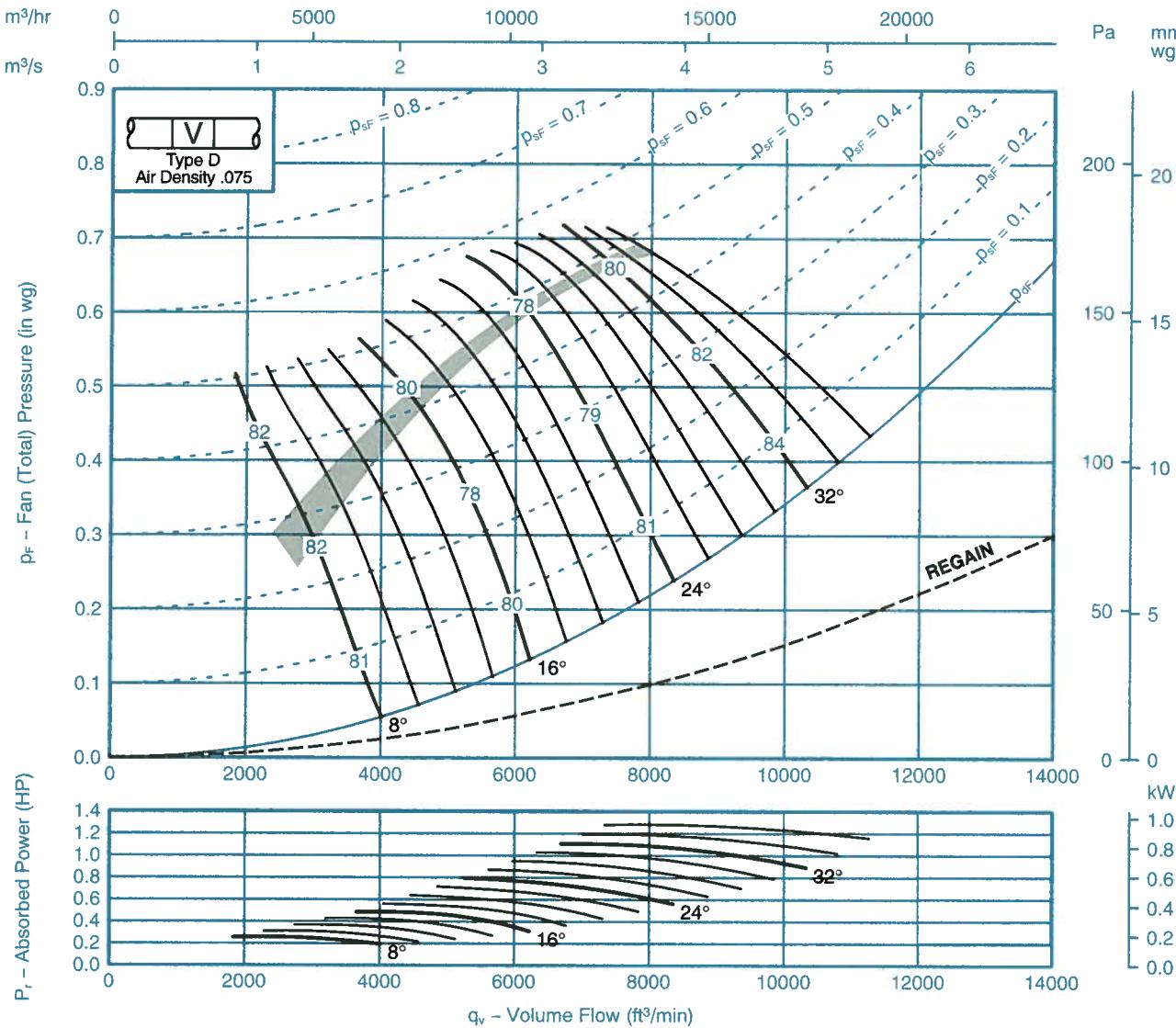
Fan Code: 71JM/20/8/6/...
710 mm 875 RPM
6 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-7	-4	-7	-11	-19	-25	-33
	-12	-9	-5	-5	-8	-16	-22	-30
16°	-11	-6	-4	-8	-11	-18	-24	-32
	-6	-6	-7	-9	-10	-14	-19	-25
24-36°	-5	-7	-6	-10	-11	-15	-19	-24
	-4	-6	-8	-11	-13	-17	-21	-26

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-7	-4	-8	-11	-19	-24	-31
	-11	-9	-5	-5	-8	-15	-22	-29
16°	-10	-6	-4	-8	-11	-18	-23	-30
	-5	-6	-7	-9	-10	-14	-18	-23
24-36°	-5	-6	-6	-10	-11	-15	-18	-22
	-3	-6	-8	-11	-13	-17	-20	-24

SK10313

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-7	-3	-1	0	0	0	0	0



JM AEROFOIL

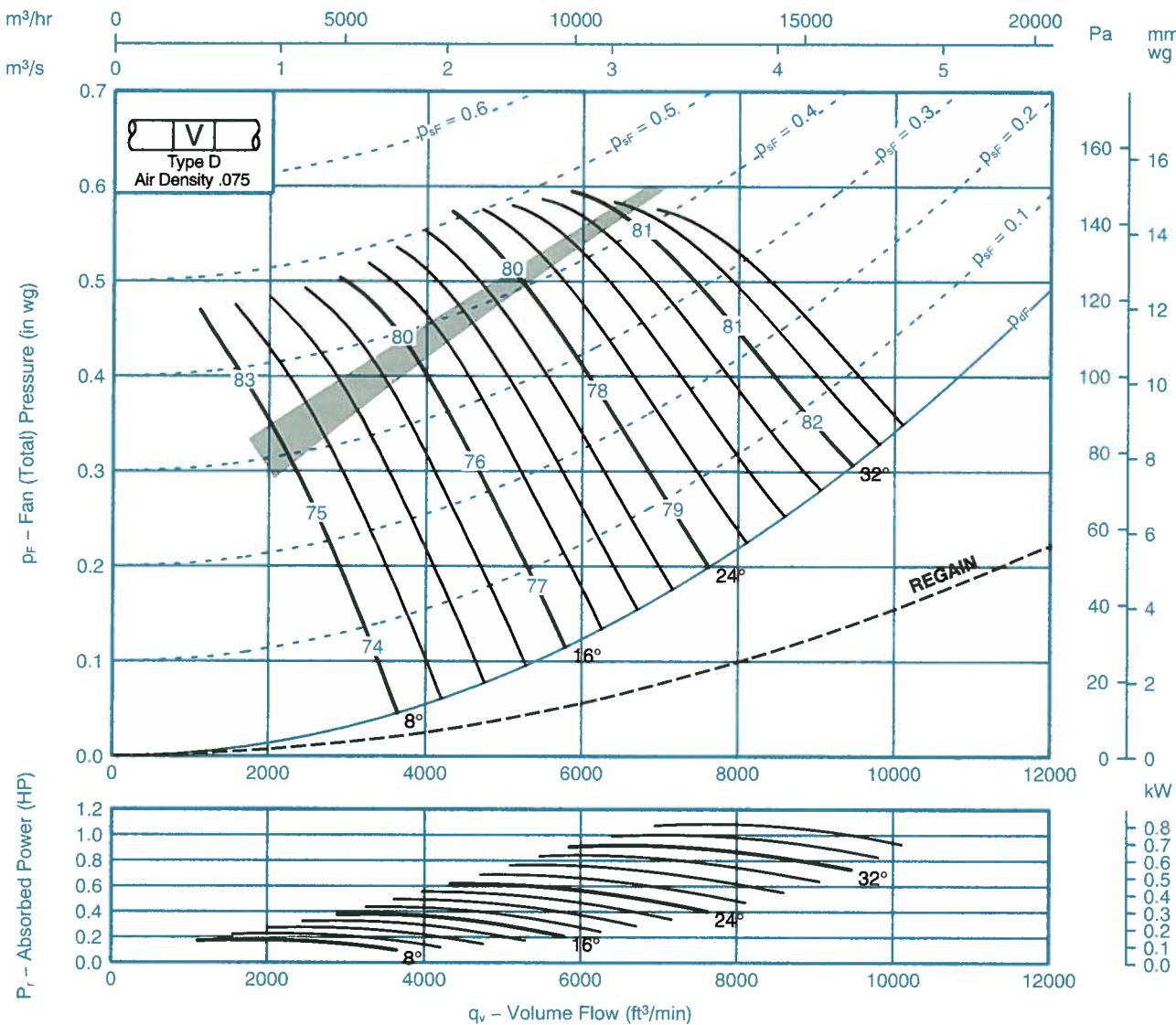
Fan Code: 71JM/25/8/6/
710 mm 875 RPM
6 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
PH: (513) 874-2400 FAX: (513) 870-6249

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12	-10	-5	-4	-11	-17	-25	-33
	-7	-9	-7	-7	-8	-10	-17	-24
16°	-8	-6	-7	-7	-10	-14	-21	-27
	-5	-5	-9	-11	-13	-14	-20	-26
24-36°	-5	-6	-7	-9	-12	-16	-19	-23
	-4	-6	-8	-10	-13	-16	-21	-25

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-8	-5	-4	-11	-17	-24	-31
	-5	-8	-7	-7	-8	-9	-16	-22
16°	-6	-5	-7	-7	-11	-19	-20	-26
	-3	-4	-9	-11	-13	-14	-20	-25
24-36°	-4	-5	-7	-7	-9	-11	-15	-21
	-1	-5	-7	-10	-13	-16	-20	-24

SK10314

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-7	-3	-1	0	0	0	0	0



JM AEROFOIL

Fan Code: 71JM/25/8/9/...

710 mm 875 RPM

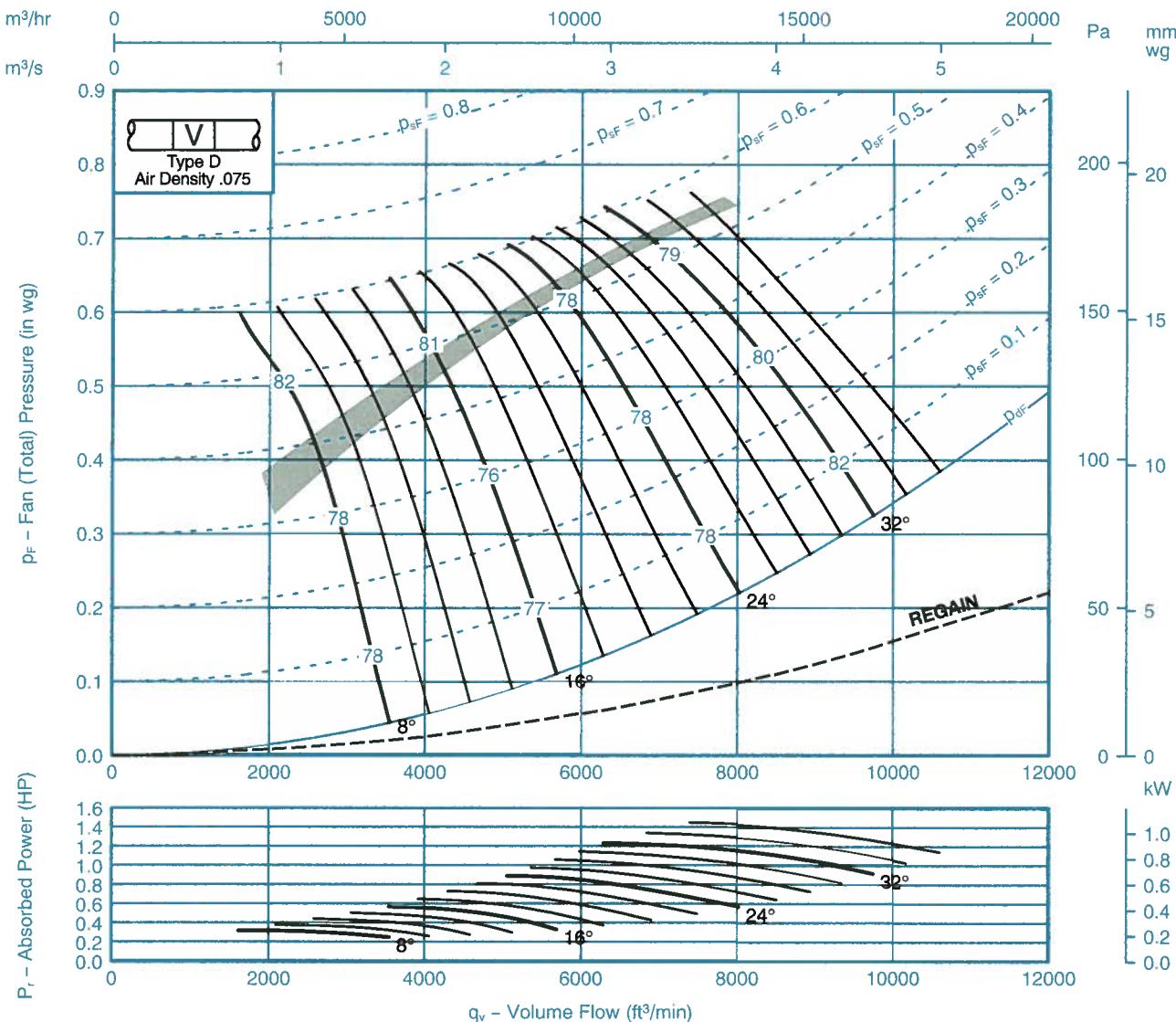
9 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
PH: (513) 874-2400 FAX: (513) 870-6249

Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-9	-6	-4	-9	-16	-25	-33
	-10	-9	-7	-6	-8	-9	-18	-25
16°	-10	-8	-5	-6	-10	-16	-22	-29
	-9	-5	-6	-9	-10	-12	-19	-25
24-36°	-8	-6	-6	-8	-11	-14	-18	-22
	-7	-5	-6	-9	-12	-15	-20	-25

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-7	-6	-4	-9	-15	-24	-31
	-9	-7	-7	-6	-8	-8	-17	-24
16°	-9	-6	-4	-6	-10	-15	-22	-28
	-7	-3	-6	-9	-10	-12	-19	-25
24-36°	-6	-4	-6	-8	-10	-13	-16	-20
	-4	-3	-6	-9	-12	-15	-19	-24

SK10315

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-7	-3	-1	0	0	0	0	0



JM AEROFOIL

Fan Code: 71JM/20/6/3/...

710 mm 1170 RPM

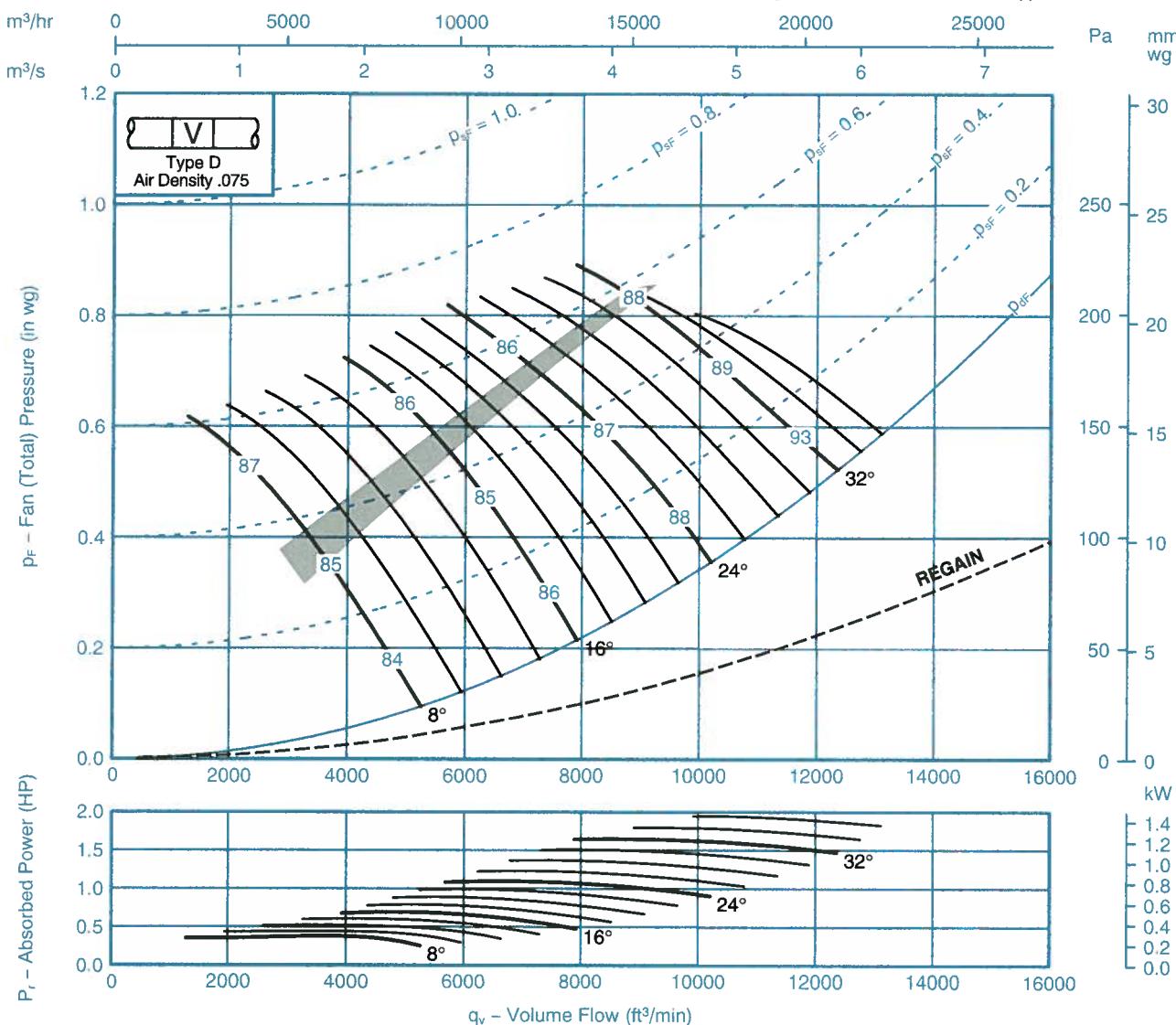
3 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
PH: (513) 874-2400 FAX: (513) 870-5249

Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-10	-4	-5	-10	-16	-22	-29
	-5	-10	-7	-7	-10	-13	-18	-25
16°	-6	-9	-5	-7	-12	-14	-20	-25
	-2	-9	-9	-14	-15	-16	-20	-25
24-36°	-3	-8	-9	-11	-11	-14	-17	-22
	-2	-8	-10	-14	-15	-18	-21	-26

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-10	-4	-5	-10	-15	-21	-26
	-3	-10	-7	-7	-10	-12	-17	-23
16°	-4	-9	-5	-7	-12	-14	-18	-23
	-1	-9	-9	-14	-15	-16	-19	-23
24-36°	-2	-8	-9	-11	-11	-14	-17	-21
	-1	-8	-10	-14	-15	-17	-19	-23

SK10693

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-7	-3	-1	0	0	0	0	0



JM AEROFOIL

Fan Code: 71JM/20/6/6/...

710 mm 1170 RPM

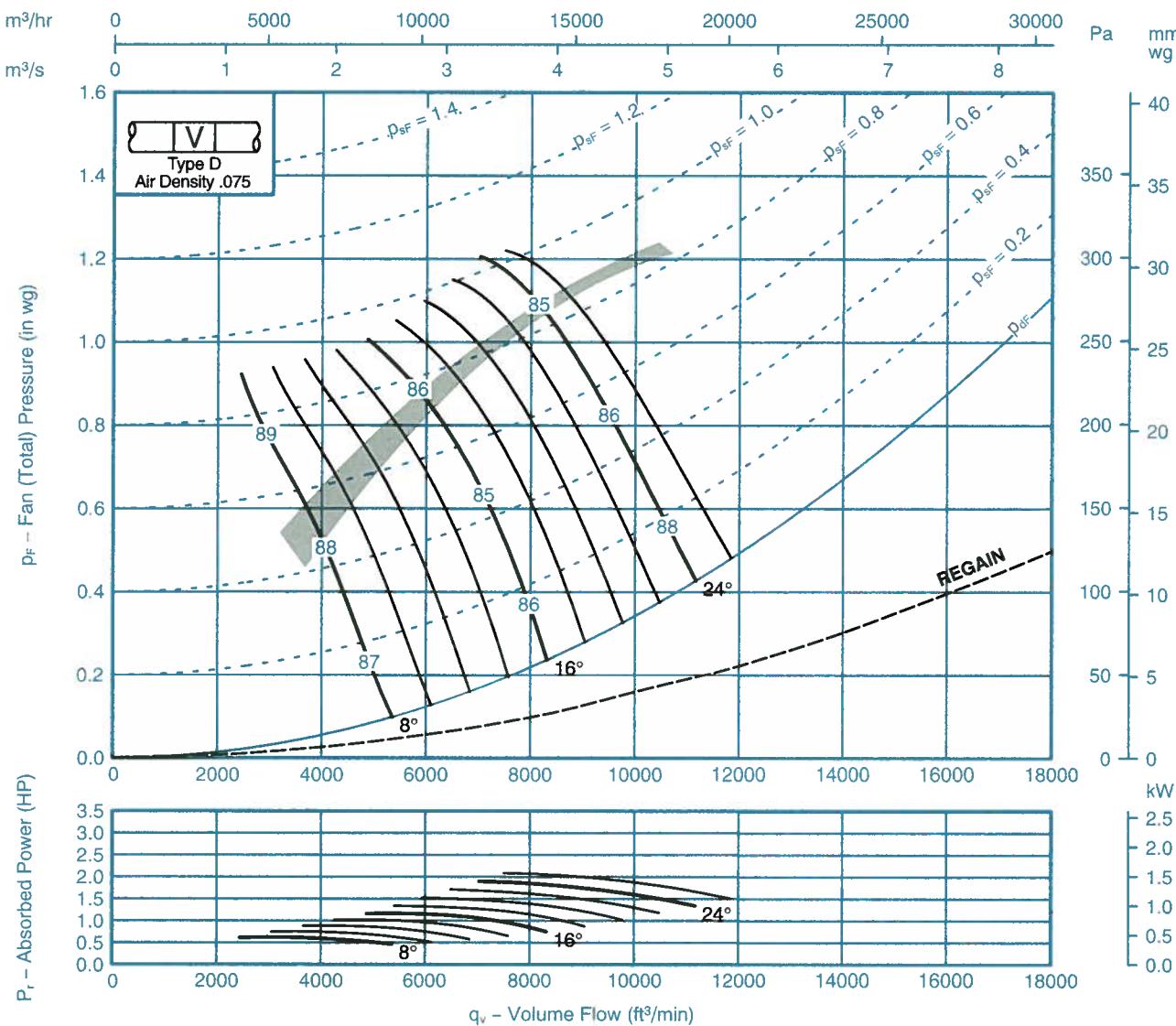
6 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
PH: (513) 874-2400 FAX: (513) 870-6249

Performance shown is for installation type D - Ducted inlet, Ducted outlet.

Performance ratings do not include the effects of appurtenances in the airstream.



The AMCA Certified Ratings Seal applies to air performance ratings only.

Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12	-9	-4	-5	-10	-16	-22	-29
	-15	-10	-7	-4	-7	-13	-19	-27
16°	-14	-8	-4	-6	-10	-15	-22	-28
	-9	-5	-7	-8	-10	-12	-17	-23
24-26°	-8	-5	-7	-9	-11	-14	-17	-22
	-6	-4	-8	-11	-13	-16	-19	-24

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12	-7	-4	-5	-10	-16	-24	-27
	-15	-9	-7	-4	-7	-12	-19	-25
16°	-13	-8	-4	-6	-10	-15	-21	-27
	-9	-5	-7	-8	-10	-12	-16	-21
24-26°	-7	-5	-7	-9	-11	-14	-16	-21
	-5	-4	-8	-11	-13	-16	-18	-23

SK10316

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-7	-3	-1	0	0	0	0	0



JM AEROFOIL

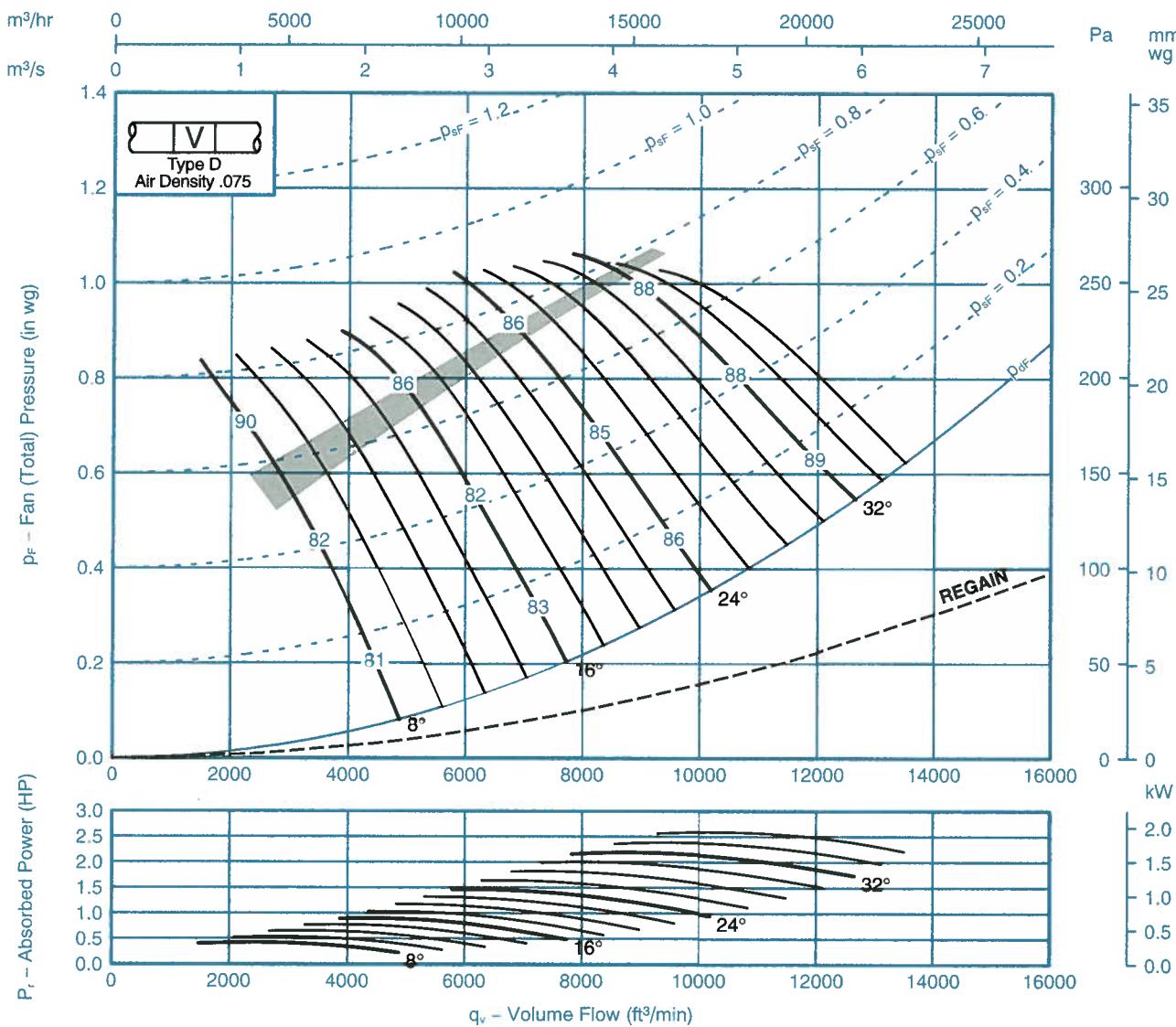
Fan Code: 71JM/25/6/6/
710 mm 1170 RPM
6 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12 -7	-11 -9	-6 -8	-4 -7	-7 -7	-15 -9	-22 -14	-29 -22
16°	-7 -5	-7 -6	-7 -8	-8 -11	-8 -11	-12 -13	-18 -18	-24 -24
24-36°	-5 -4	-6 -6	-7 -8	-9 -11	-10 -12	-14 -16	-18 -20	-21 -24

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10 -6	-9 -7	-6 -8	-4 -7	-7 -7	-14 -7	-21 -8	-28 -20
16°	-6 -3	-6 -4	-7 -8	-8 -11	-8 -11	-11 -13	-18 -17	-23 -23
24-36°	-4 -2	-5 -4	-7 -8	-9 -11	-10 -12	-13 -15	-17 -19	-20 -23

SK10317

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-7	-3	-1	0	0	0	0	0



JM AEROFOIL

Fan Code: 71JM/25/6/9/...

710 mm 1170 RPM

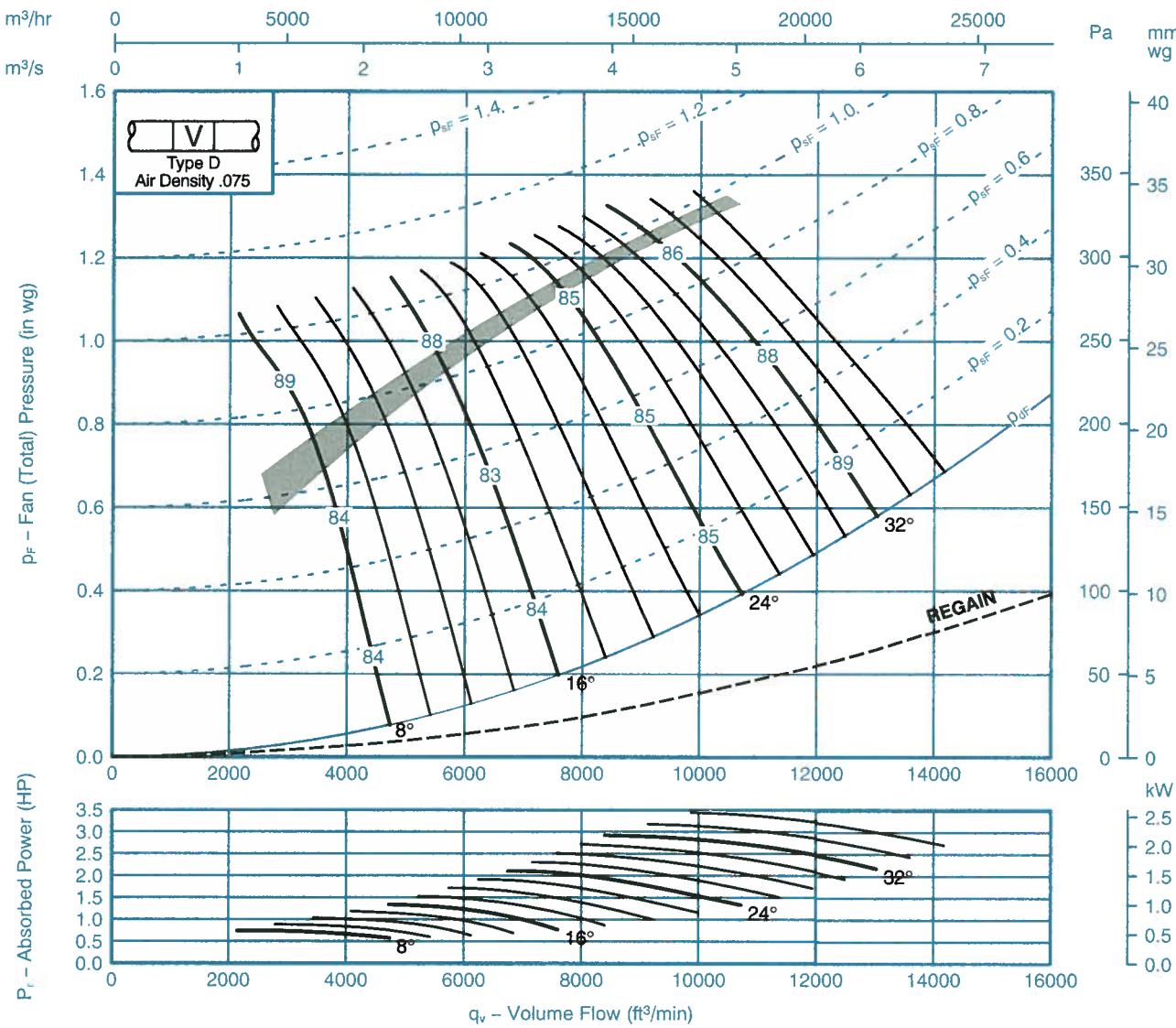
9 Blades 60 Hz



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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-8	-9	-4	-6	-13	-21	-29
	-11	-9	-8	-7	-7	-8	-14	-23
16°	-10	-9	-6	-5	-8	-14	-19	-26
	-8	-6	-6	-8	-9	-11	-16	-23
24-36°	-7	-7	-6	-8	-10	-13	-17	-20
	-6	-6	-6	-9	-11	-15	-19	-23

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-9	-7	-8	-4	-6	-13	-21	-28
	-9	-7	-7	-7	-7	-7	-13	-21
16°	-9	-7	-6	-5	-8	-13	-19	-25
	-7	-5	-5	-8	-9	-11	-16	-22
24-36°	-5	-5	-6	-8	-9	-12	-16	-19
	-3	-4	-5	-9	-11	-14	-18	-22

SK10318

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-7	-3	-1	0	0	0	0	0



JM AEROFOIL

Fan Code: 71JM/20/4/6/...

710 mm 1770 RPM

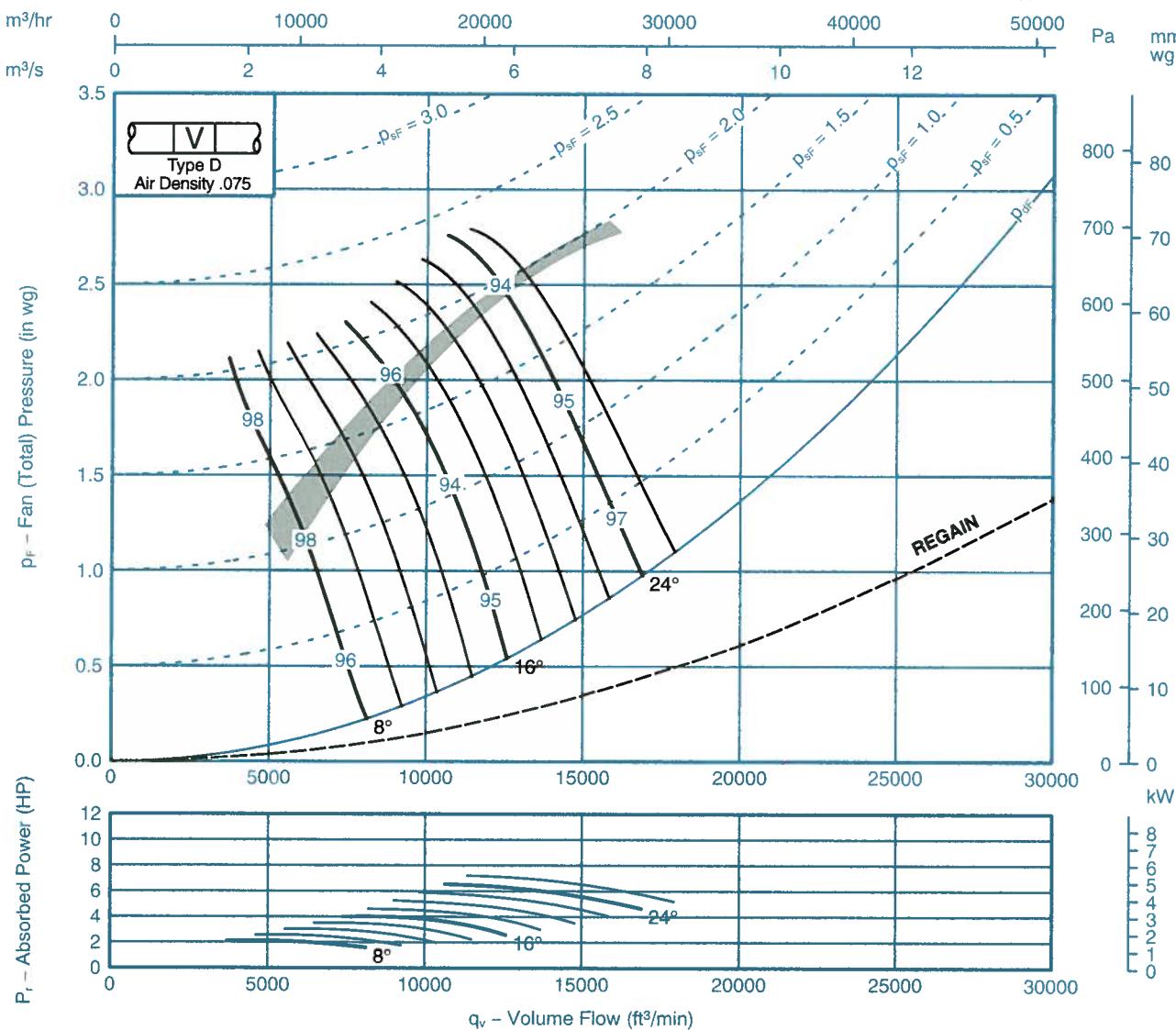
6 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
PH: (513) 874-2400 FAX: (513) 870-6249

Performance shown is for installation type D - Ducted inlet, Ducted outlet.

Performance ratings do not include the effects of appurtenances in the airstream.



The AMCA Certified Ratings Seal applies to air performance ratings only.

Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-11	-8	-4	-8	-12	-19	-25
	-18	-12	-9	-5	-5	-8	-16	-22
16°	-17	-11	-7	-4	-9	-11	-19	-25
	-11	-6	-7	-7	-10	-10	-15	-19
24-26°	-10	-6	-8	-7	-11	-12	-16	-19
	-8	-5	-7	-9	-13	-14	-18	-22

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-9	-7	-4	-8	-11	-18	-23
	-18	-11	-9	-5	-5	-7	-16	-21
16°	-15	-11	-6	-7	-4	-8	-10	-22
	-11	-6	-7	-7	-10	-10	-14	-18
24-26°	-9	-6	-7	-7	-11	-11	-15	-18
	-7	-4	-7	-9	-12	-14	-17	-20

SK10319

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-7	-3	-1	0	0	0	0	0



JM AEROFOIL

Fan Code: 71JM/25/4/6/...

710 mm 1770 RPM

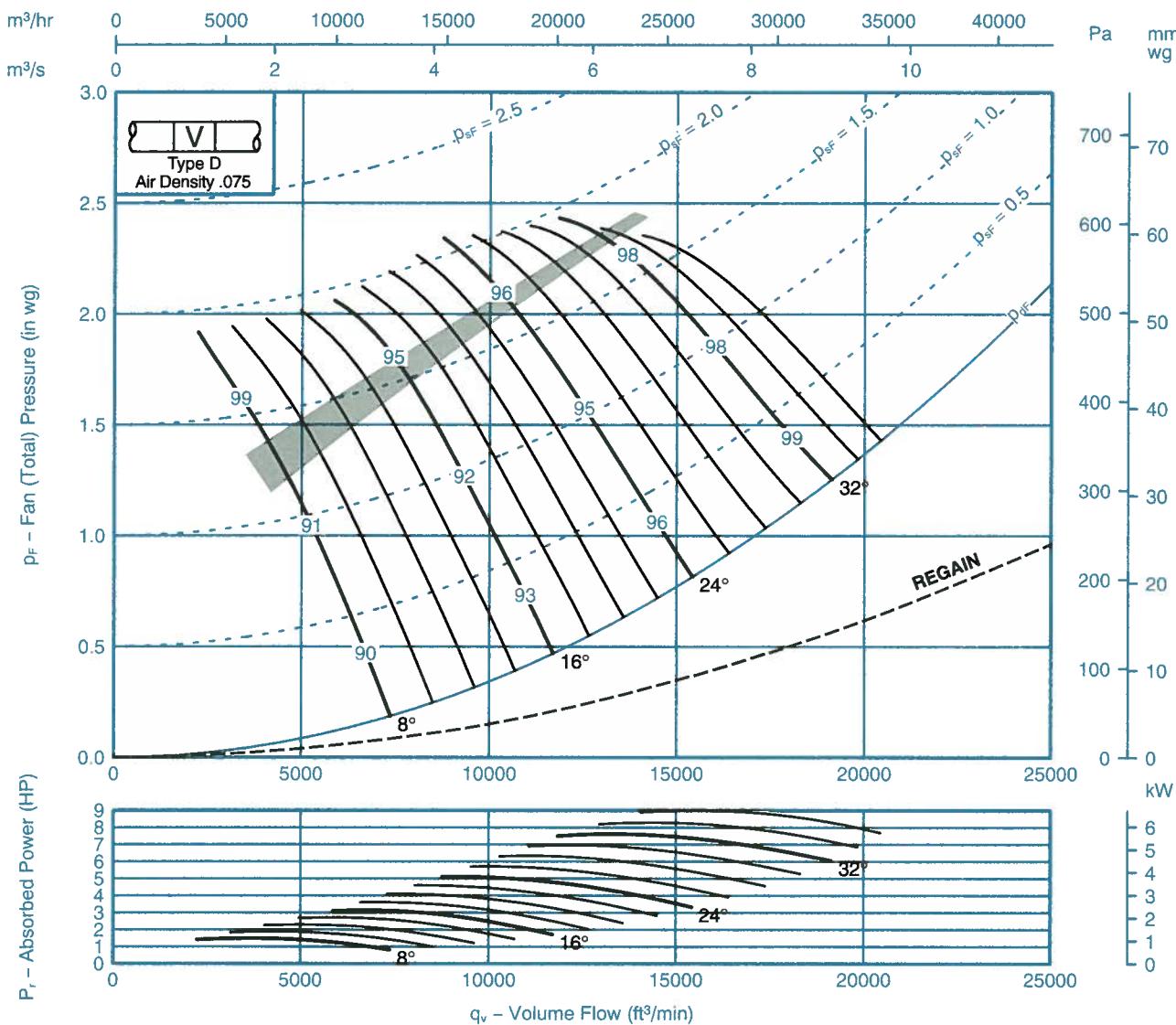
6 Blades 60 Hz



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PH: (513) 874-2400 FAX: (513) 870-6249

Performance shown is for installation type D - Ducted inlet, Ducted outlet.

Performance ratings do not include the effects of appurtenances in the airstream.



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-13	-10	-5	-5	-11	-18	-25
	-11	-8	-10	-8	-8	-9	-11	-18
16°	-9	-9	-7	-8	-8	-11	-15	-22
	-8	-6	-6	-10	-12	-14	-15	-21
24-36°	-5	-7	-8	-9	-11	-13	-17	-21
	-5	-6	-8	-9	-12	-15	-18	-23

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12	-11	-9	-5	-4	-10	-17	-23
	-10	-7	-8	-8	-7	-8	-9	-16
16°	-8	-7	-6	-7	-8	-10	-14	-20
	-7	-5	-5	-9	-12	-13	-15	-20
24-36°	-4	-6	-7	-8	-10	-12	-16	-19
	-3	-4	-7	-9	-12	-14	-17	-21

SK10320

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-7	-3	-1	0	0	0	0	0



JM AEROFOIL

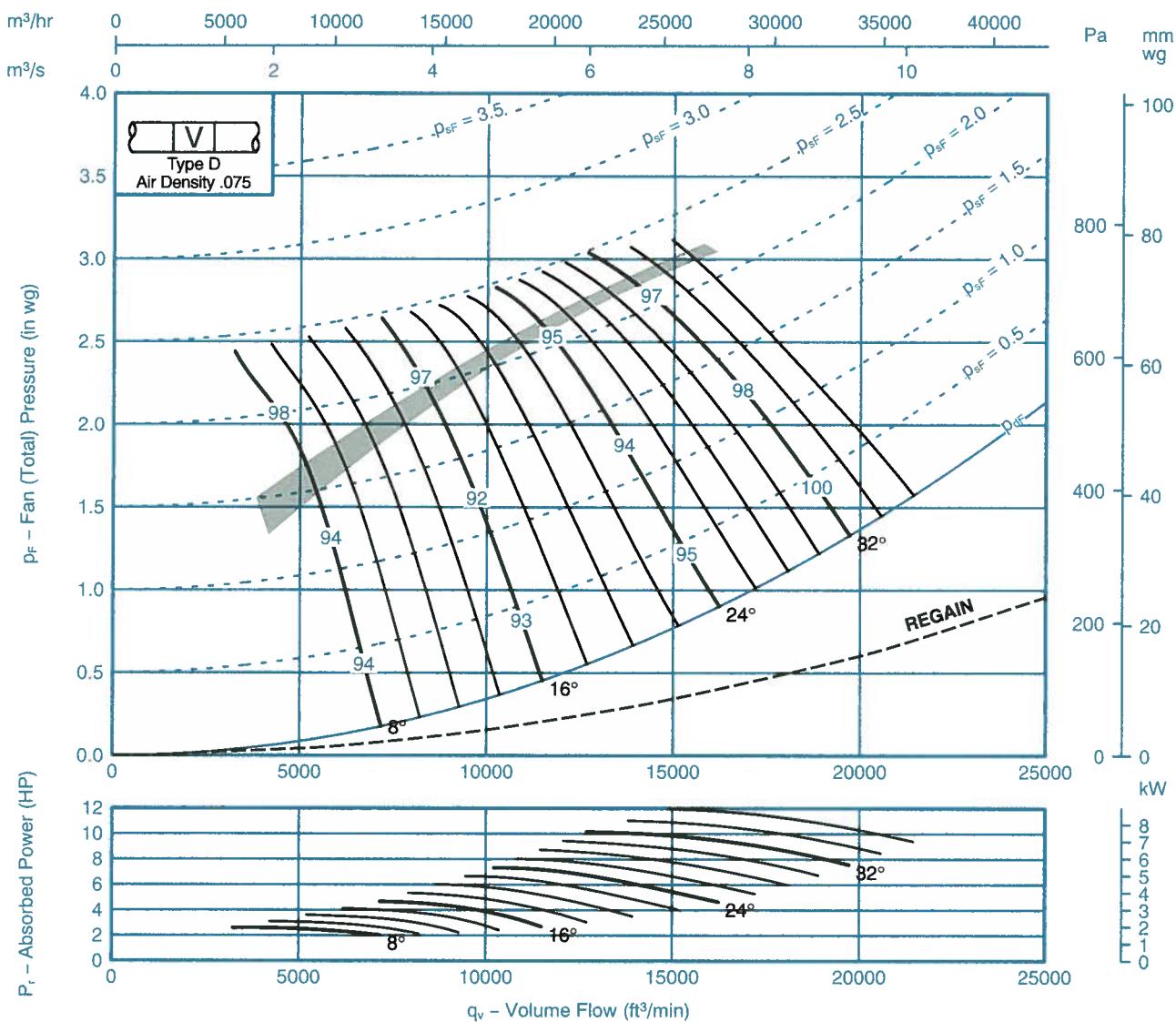
Fan Code: 71JM/25/4/9/
710 mm 1770 RPM
9 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12	-11	-9	-7	-5	-9	-16	-25
	-12	-11	-9	-8	-7	-8	-9	-19
16°	-10	-11	-9	-5	-7	-11	-16	-23
	-7	-10	-7	-7	-10	-11	-13	-20
24-36°	-5	-10	-8	-8	-11	-13	-16	-20
	-5	-9	-8	-8	-12	-14	-17	-22

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-9	-10	-7	-6	-5	-8	-16	-23
	-10	-10	-7	-7	-7	-7	-8	-17
16°	-8	-10	-7	-5	-6	-10	-16	-22
	-6	-10	-4	-7	-10	-11	-12	-19
24-36°	-3	-9	-6	-7	-10	-12	-14	-18
	-3	-8	-5	-7	-11	-13	-16	-21

SK10321

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-7	-3	-1	0	0	0	0	0



JM AEROFOIL

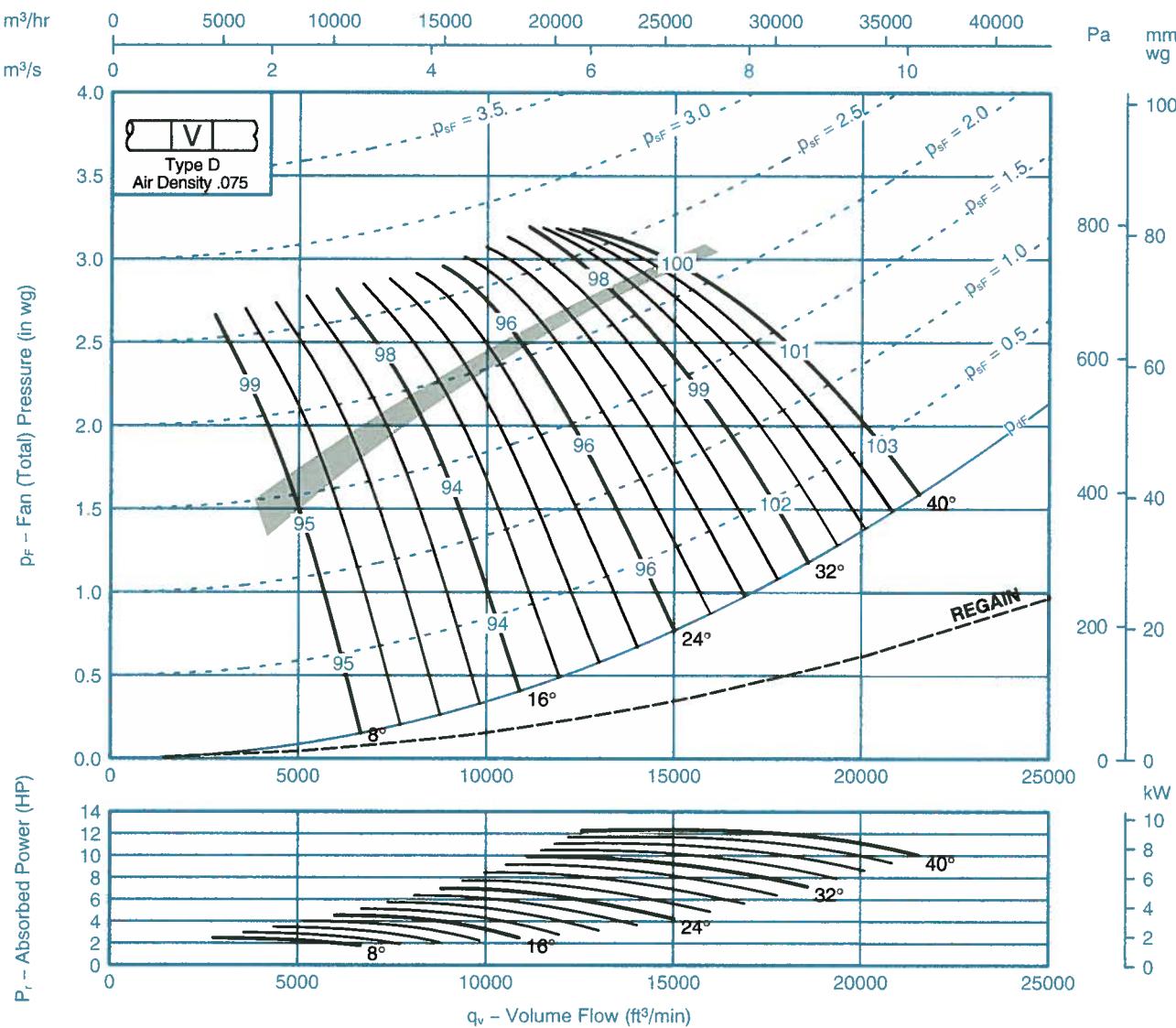
Fan Code: 71JM/31/4/9/
710 mm 1770 RPM
9 Blades 60 Hz



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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

Performance ratings do not include the effects of appurtenances in the airstream.



The AMCA Certified Ratings Seal applies to air performance ratings only.

Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	63	125	250	500	1k	2k	4k	8k
8°	-12	-11	-9	-7	-5	-9	-16	-25
	-12	-11	-9	-8	-7	-8	-9	-19
16°	-10	-11	-9	-5	-7	-11	-16	-23
	-7	-10	-7	-7	-10	-11	-13	-20
24-40°	-5	-10	-8	-8	-11	-13	-16	-20
	-5	-9	-8	-8	-12	-14	-17	-22

Pitch Angle	Outlet Levels							
	63	125	250	500	1k	2k	4k	8k
8°	-9	-10	-7	-6	-5	-8	-16	-23
	-10	-10	-7	-7	-7	-7	-8	-17
16°	-8	-10	-7	-5	-6	-10	-16	-22
	-6	-10	-4	-7	-10	-11	-12	-19
24-40°	-3	-9	-6	-7	-10	-12	-14	-18
	-3	-8	-5	-7	-11	-13	-16	-21

SK10632

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-7	-3	-1	0	0	0	0	0



JM AEROFOIL

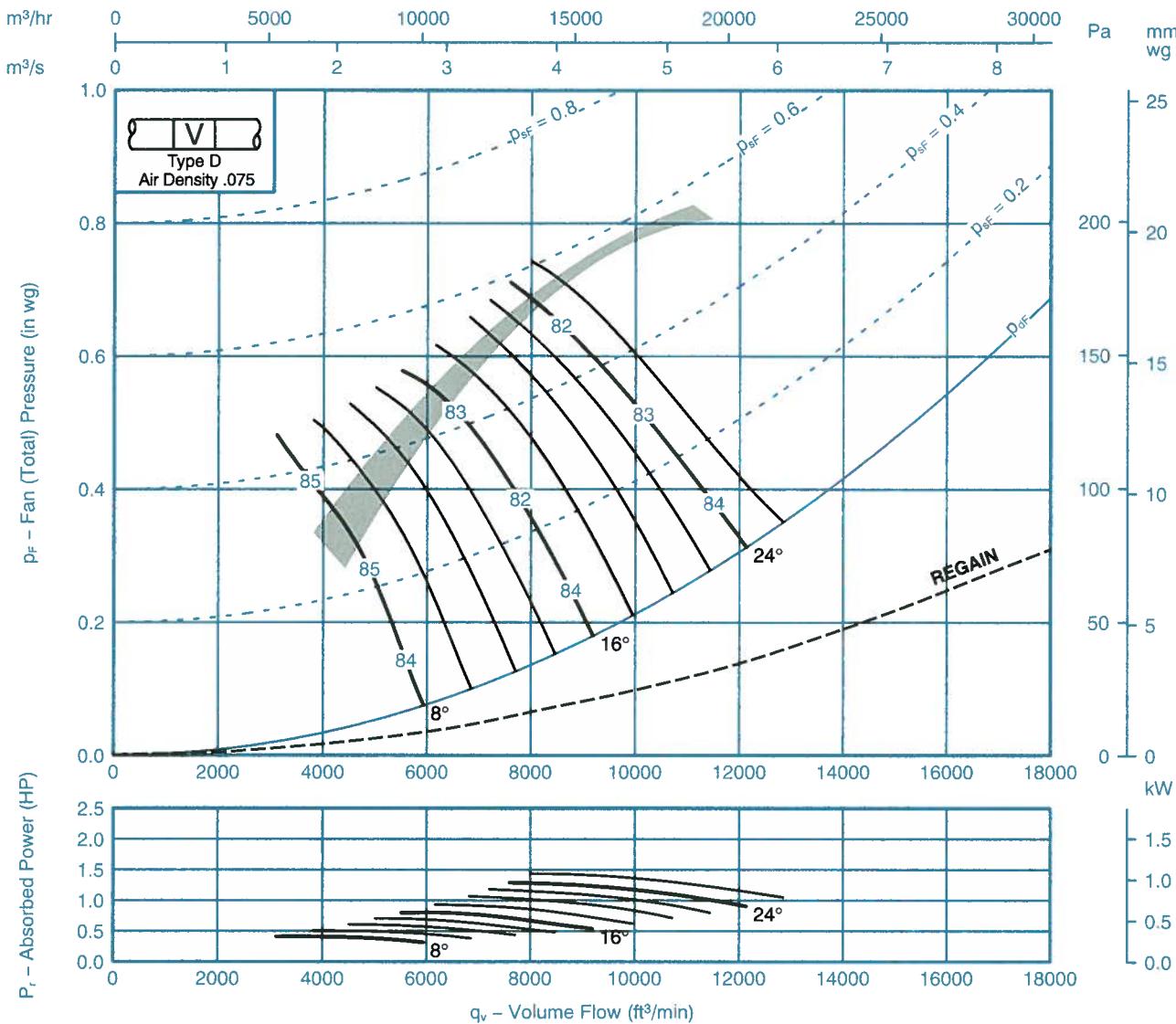
Fan Code: 80JM/20/8/6/...
800 mm 875 RPM
6 Blades 60 Hz



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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-7	-4	-7	-10	-18	-24	-31
	-14	-9	-6	-5	-7	-16	-21	-28
16°	-14	-5	-3	-9	-11	-19	-24	-32
	-7	-6	-7	-9	-9	-13	-18	-23
24-26°	-8	-7	-6	-9	-8	-13	-16	-22
	-5	-6	-7	-11	-11	-15	-18	-23

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-7	-4	-7	-10	-18	-23	-29
	-13	-9	-6	-5	-7	-14	-20	-27
16°	-13	-5	-3	-9	-11	-19	-23	-30
	-7	-6	-7	-9	-9	-13	-17	-22
24-26°	-7	-7	-6	-9	-8	-13	-15	-21
	-5	-6	-7	-11	-11	-14	-17	-22

SK10322

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-6	-3	-1	0	0	0	0	0



JM AEROFOIL

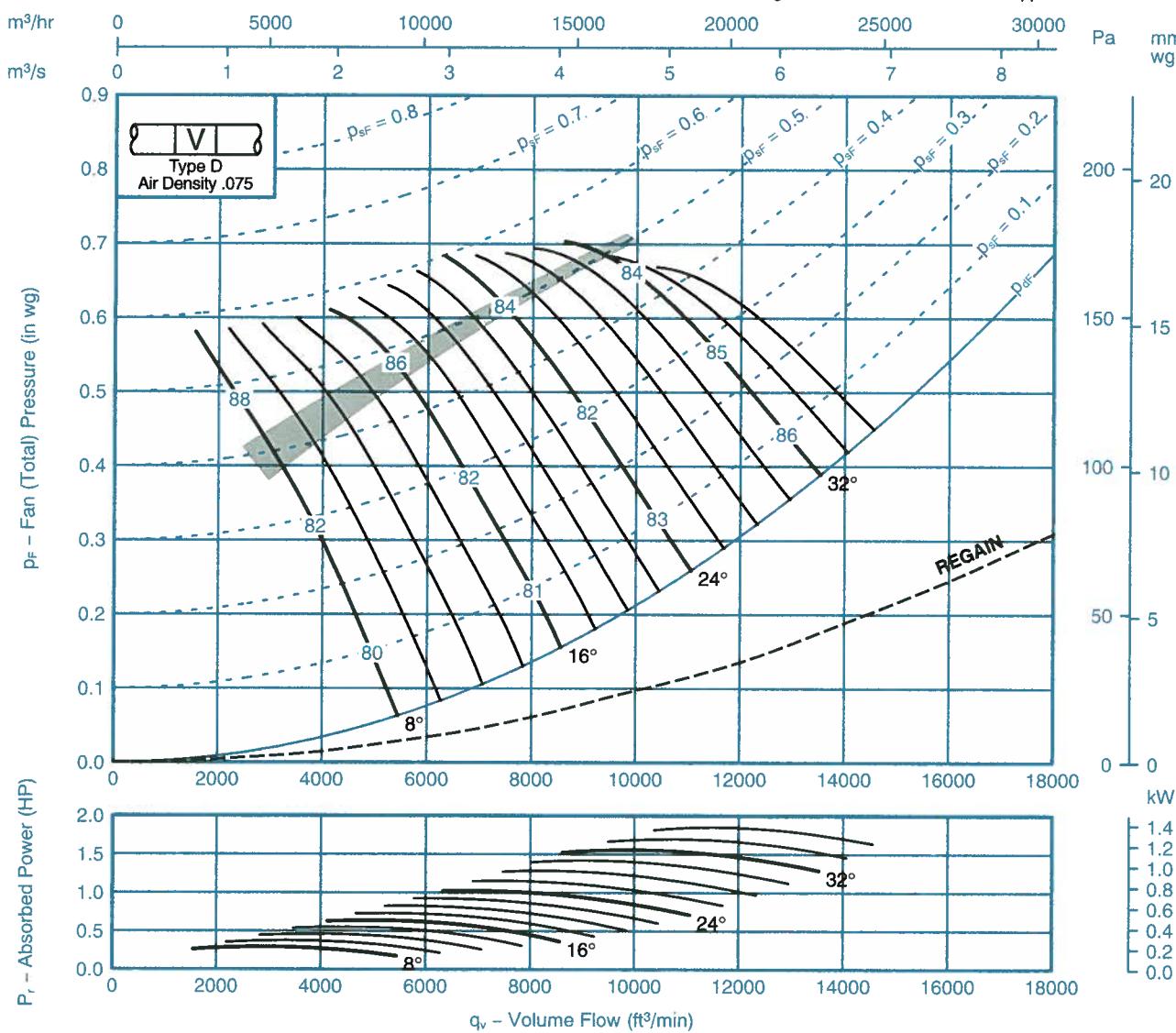
Fan Code: 80JM/25/8/6/
800 mm 875 RPM
6 Blades 60 Hz



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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-12	-5	-3	-11	-17	-24	-32
	-11	-12	-7	-4	-7	-12	-17	-24
16°	-9	-7	-8	-4	-10	-15	-21	-28
	-6	-4	-9	-10	-12	-15	-19	-24
24-36°	-6	-7	-7	-7	-10	-14	-17	-22
	-5	-7	-7	-8	-11	-15	-17	-22

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-11	-5	-4	-11	-17	-23	-30
	-11	-12	-7	-6	-7	-10	-17	-23
16°	-8	-7	-8	-5	-10	-15	-20	-26
	-5	-4	-9	-11	-13	-14	-18	-22
24-36°	-5	-7	-7	-7	-11	-14	-16	-21
	-5	-7	-7	-8	-12	-14	-16	-20

SK10323

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-6	-3	0	0	0	0	0	0



JM AEROFOIL

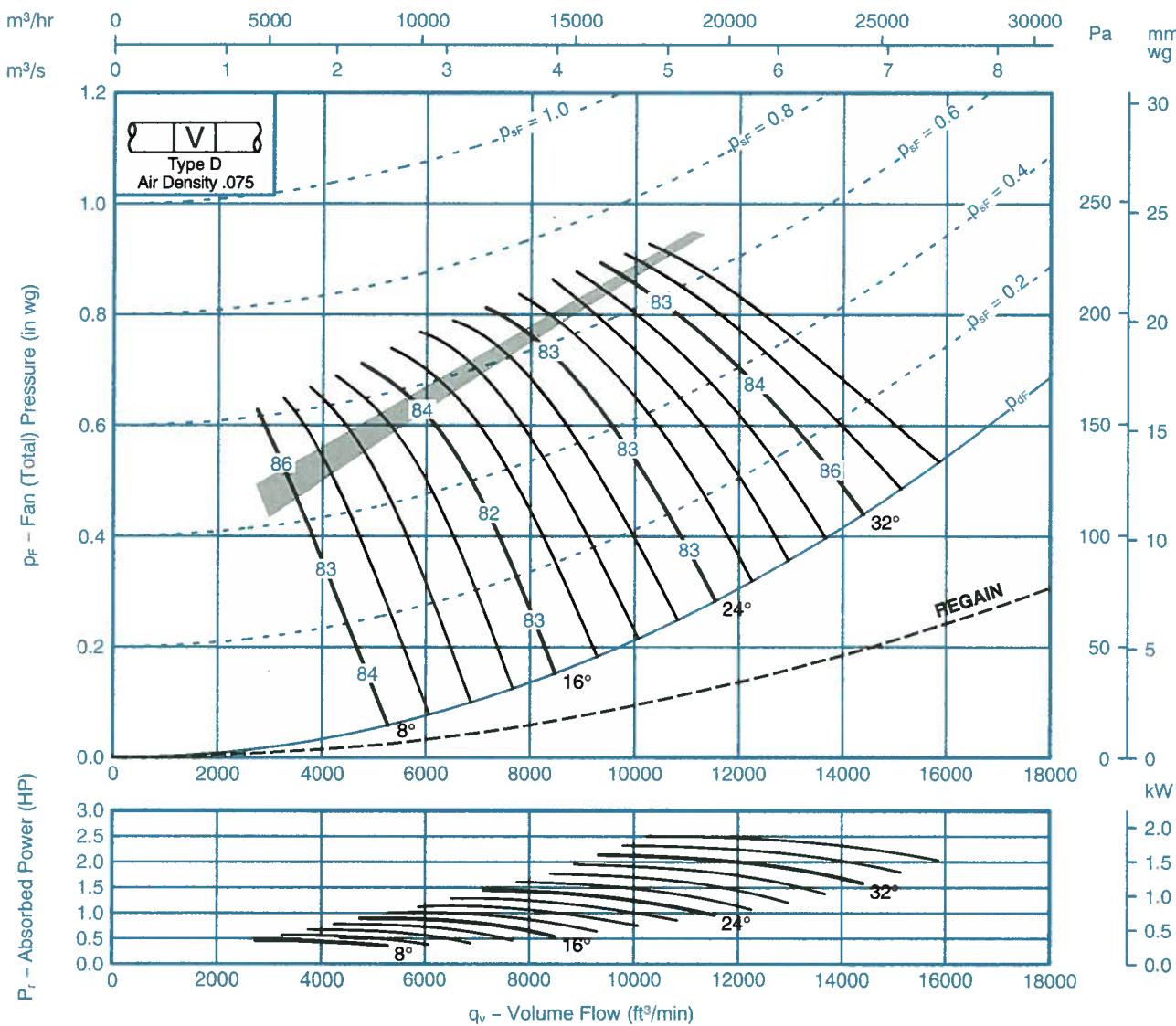
Fan Code: 80JM/25/8/9/...
800 mm 875 RPM
9 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-9	-6	-4	-9	-16	-25	-33
	-10	-9	-7	-6	-8	-9	-18	-26
16°	-9	-7	-5	-6	-11	-16	-24	-28
	-10	-7	-5	-8	-10	-14	-18	-25
24-36°	-9	-8	-6	-6	-10	-13	-16	-21
	-9	-7	-5	-7	-11	-14	-17	-22

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-9	-7	-6	-6	-9	-16	-24	-31
	-10	-8	-7	-7	-8	-18	-24	-24
16°	-8	-7	-5	-5	-6	-11	-16	-26
	-9	-6	-5	-8	-10	-13	-18	-23
24-36°	-8	-8	-6	-6	-6	-10	-13	-19
	-8	-6	-5	-8	-11	-14	-16	-21

SK10324

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-6	-3	0	0	0	0	0	0



JM AEROFOIL

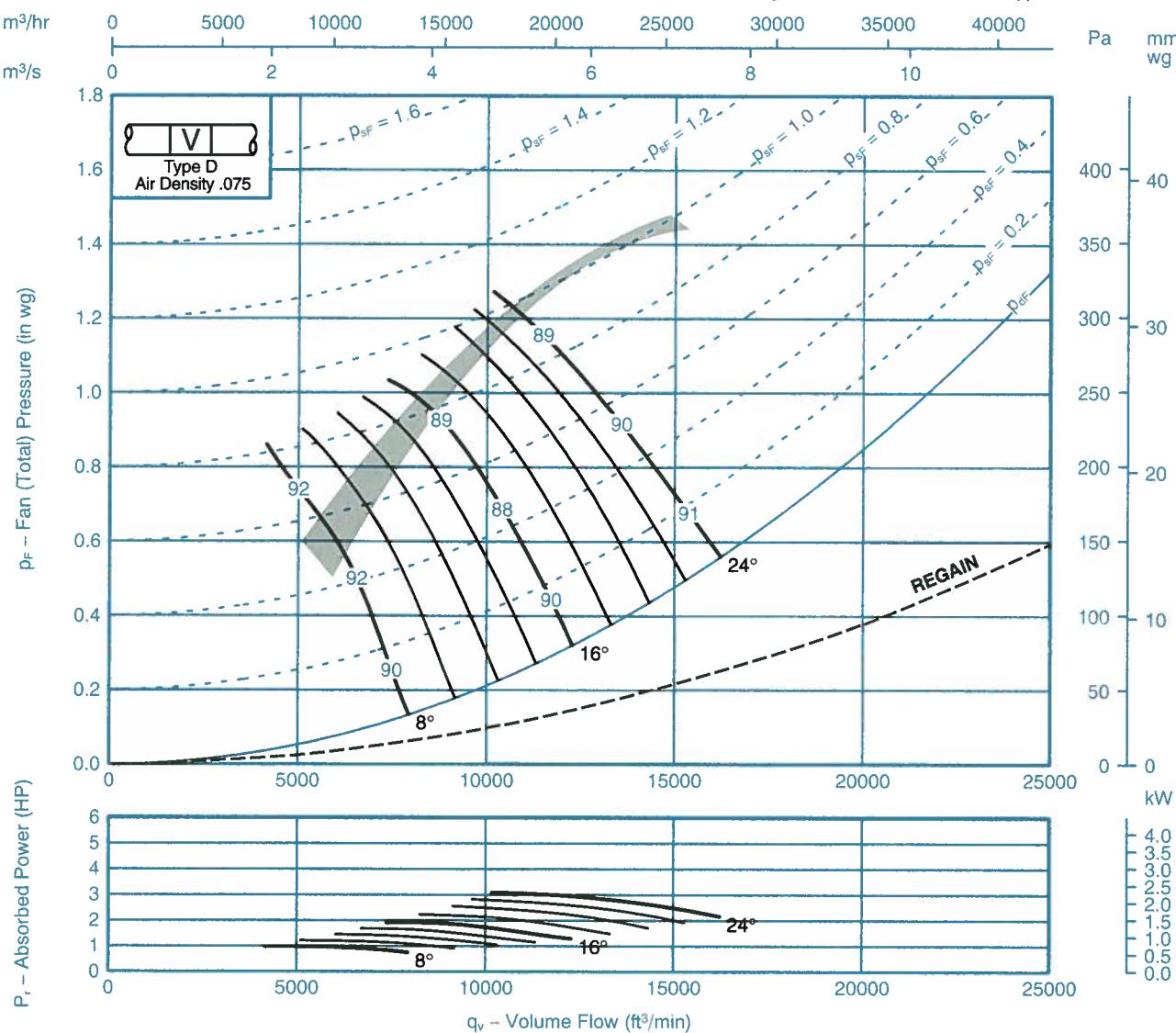
Fan Code: 80JM/20/6/6/
800 mm 1170 RPM
6 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-10	-4	-5	-8	-15	-21	-28
	-17	-11	-7	-5	-5	-12	-18	-25
16°	-16	-9	-3	-6	-10	-16	-21	-28
	-10	-6	-7	-8	-8	-12	-15	-21
24°	-10	-6	-7	-8	-8	-11	-14	-20
	-7	-5	-7	-10	-11	-14	-16	-22

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-8	-4	-5	-8	-15	-20	-25
	-17	-10	-7	-5	-5	-11	-18	-23
16°	-15	-9	-3	-6	-10	-16	-21	-26
	-9	-6	-7	-8	-8	-12	-15	-19
24°	-9	-6	-7	-8	-8	-11	-13	-18
	-7	-4	-7	-10	-11	-13	-15	-20

SK10325

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-6	-3	0	0	0	0	0	0



JM AEROFOIL

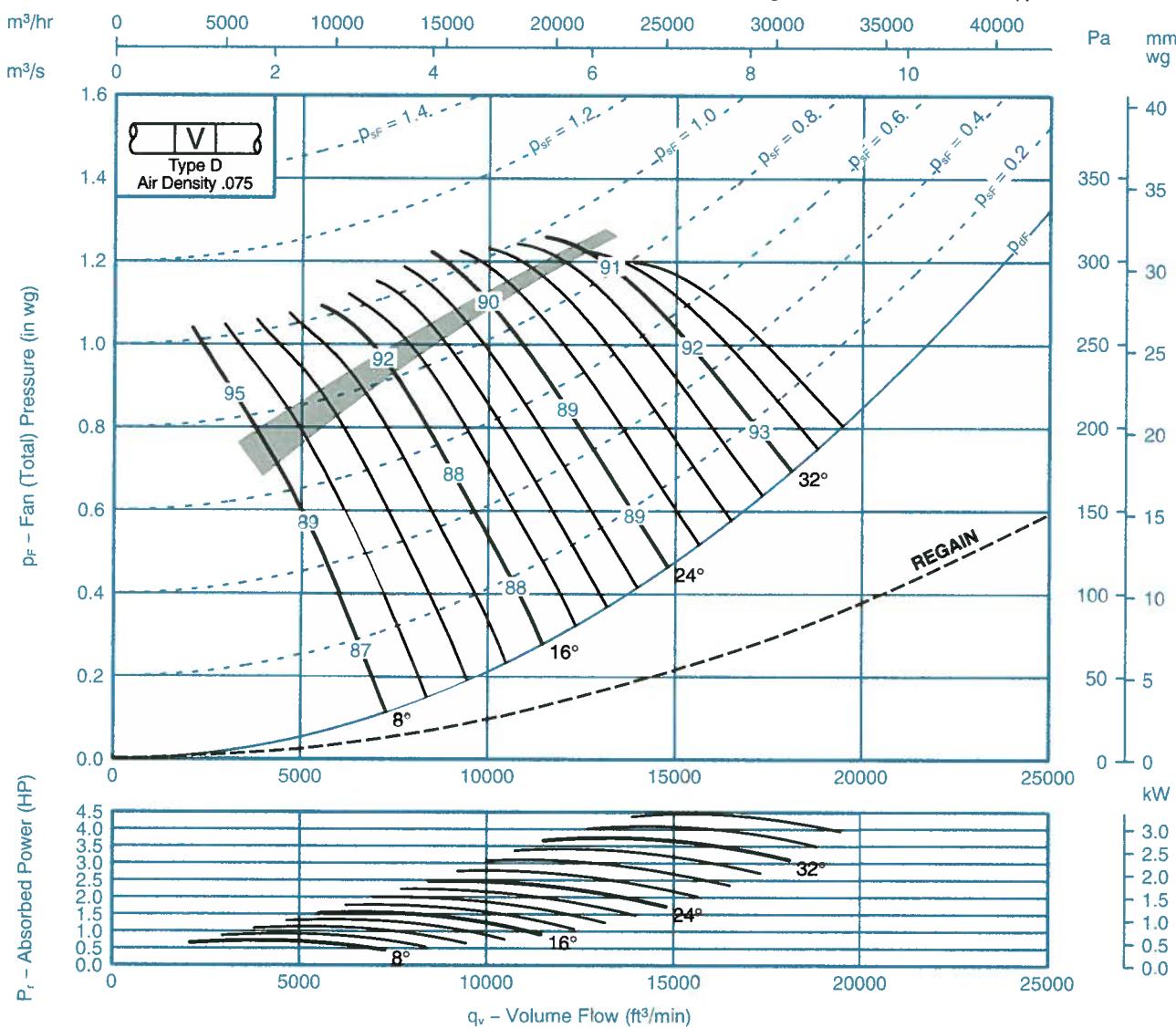
Fan Code: 80JM/25/6/6/...
800 mm 1170 RPM
6 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
PH: (513) 874-2400 FAX: (513) 870-6249

Performance shown is for installation type D - Ducted inlet, Ducted outlet.

Performance ratings do not include the effects of appurtenances in the airstream.



The AMCA Certified Ratings Seal applies to air performance ratings only.

Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-14	-7	-3	-6	-15	-21	-28
	-11	-13	-10	-6	-5	-9	-15	-22
16°	-9	-9	-9	-5	-6	-13	-18	-25
	-6	-6	-8	-10	-10	-13	-16	-21
24-36°	-6	-7	-8	-8	-8	-13	-16	-20
	-5	-7	-8	-8	-9	-14	-17	-21

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-13	-7	-5	-7	-14	-20	-26
	-11	-13	-10	-7	-5	-8	-15	-20
16°	-8	-9	-9	-6	-7	-13	-18	-23
	-5	-5	-8	-10	-11	-13	-16	-20
24-36°	-5	-7	-8	-8	-9	-10	-13	-19
	-5	-7	-8	-9	-10	-13	-16	-19

SK10326

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-6	-3	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 80JM/25/6/9/...

800 mm 1170 RPM

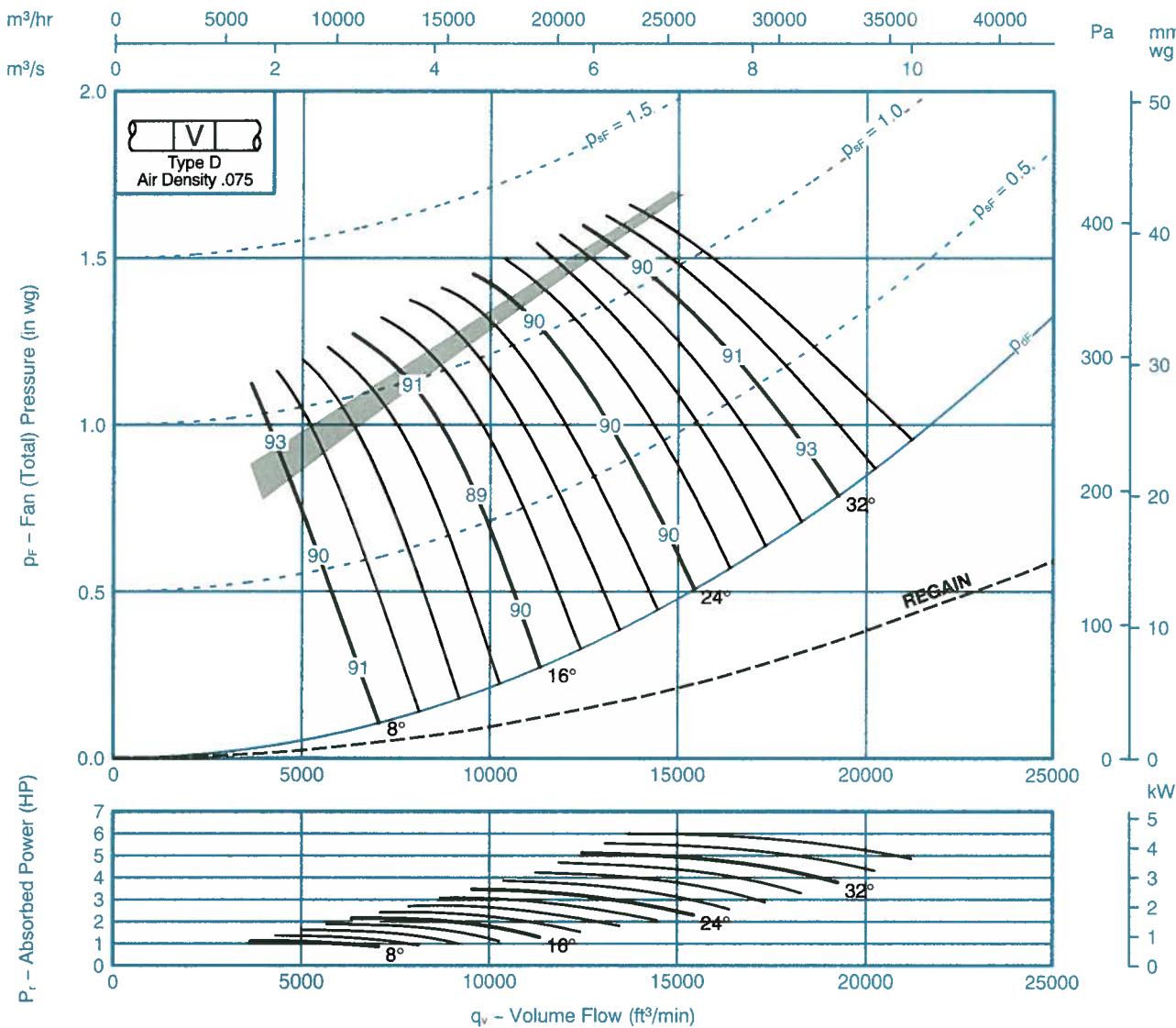
9 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

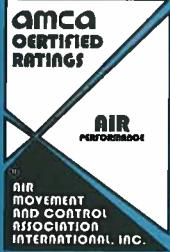
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-9	-9	-4	-6	-13	-21	-29
	-10	-9	-8	-7	-7	-8	-14	-23
16°	-9	-11	-5	-6	-7	-14	-19	-25
	-8	-8	-5	-8	-8	-12	-16	-22
24-36°	-7	-10	-7	-7	-8	-12	-15	-19
	-7	-8	-6	-7	-9	-13	-16	-21

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-7	-9	-6	-7	-13	-21	-27
	-10	-8	-8	-8	-7	-7	-14	-22
16°	-8	-11	-5	-6	-9	-14	-18	-23
	-8	-8	-5	-8	-8	-12	-16	-21
24-36°	-6	-10	-7	-8	-8	-12	-14	-18
	-7	-8	-6	-8	-9	-13	-15	-19

SK10327

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-6	-3	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 80JM/25/4/6/...

800 mm 1770 RPM

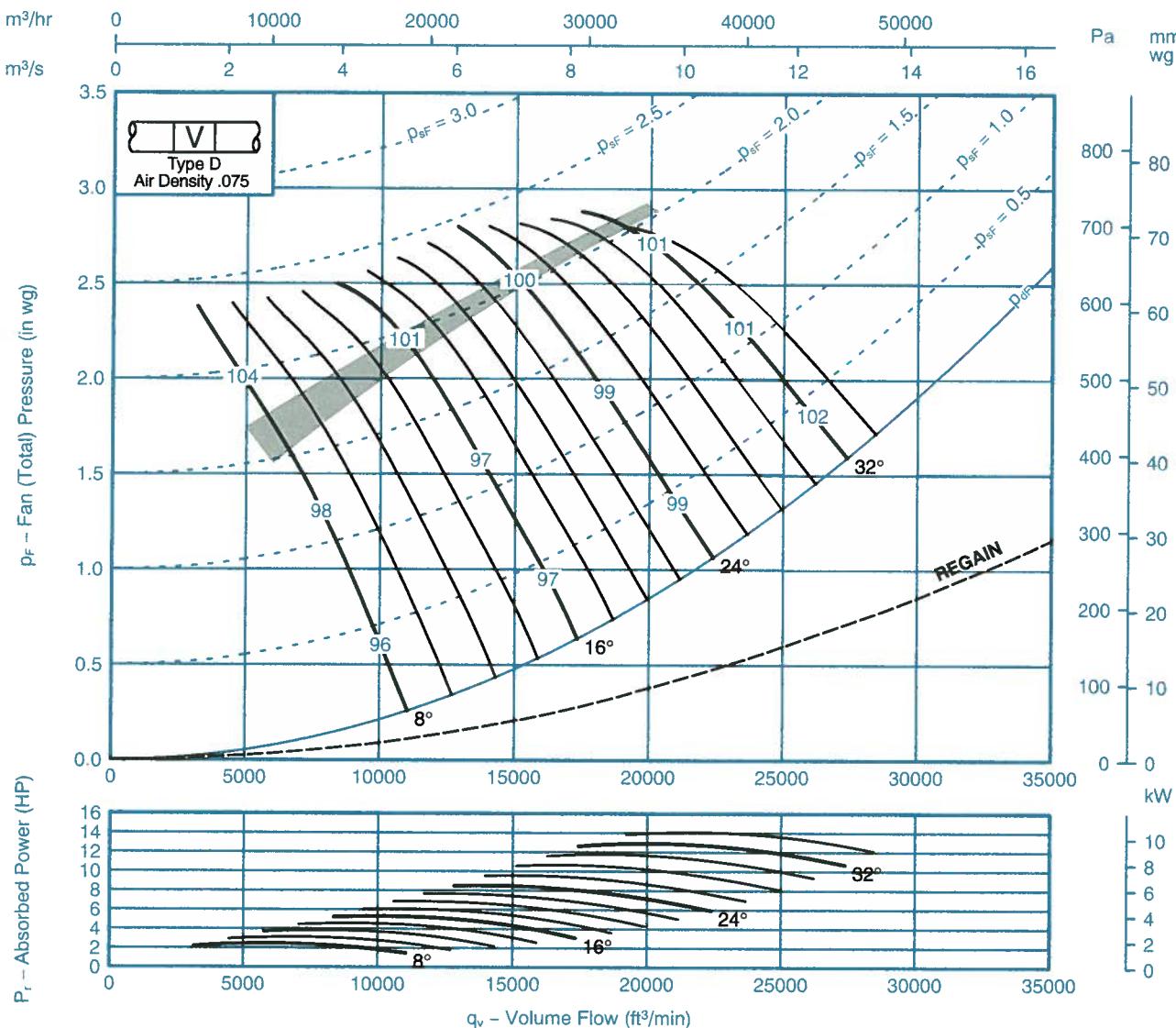
6 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-16	-12	-6	-3	-11	-18	-24
	-14	-11	-13	-8	-5	-7	-12	-18
16°	-11	-9	-7	-8	-5	-10	-16	-21
	-10	-6	-5	-9	-11	-13	-15	-19
24-34°	-6	-7	-9	-9	-8	-11	-15	-18
	-7	-6	-8	-8	-9	-12	-16	-19

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-14	-12	-7	-4	-10	-17	-22
	-14	-11	-13	-9	-5	-5	-11	-16
16°	-10	-9	-7	-9	-5	-10	-15	-20
	-9	-6	-5	-10	-11	-13	-15	-18
24-34°	-5	-7	-8	-9	-8	-11	-15	-17
	-6	-6	-8	-9	-9	-12	-15	-17

SK10329

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-6	-3	0	0	0	0	0	0



JM AEROFOIL

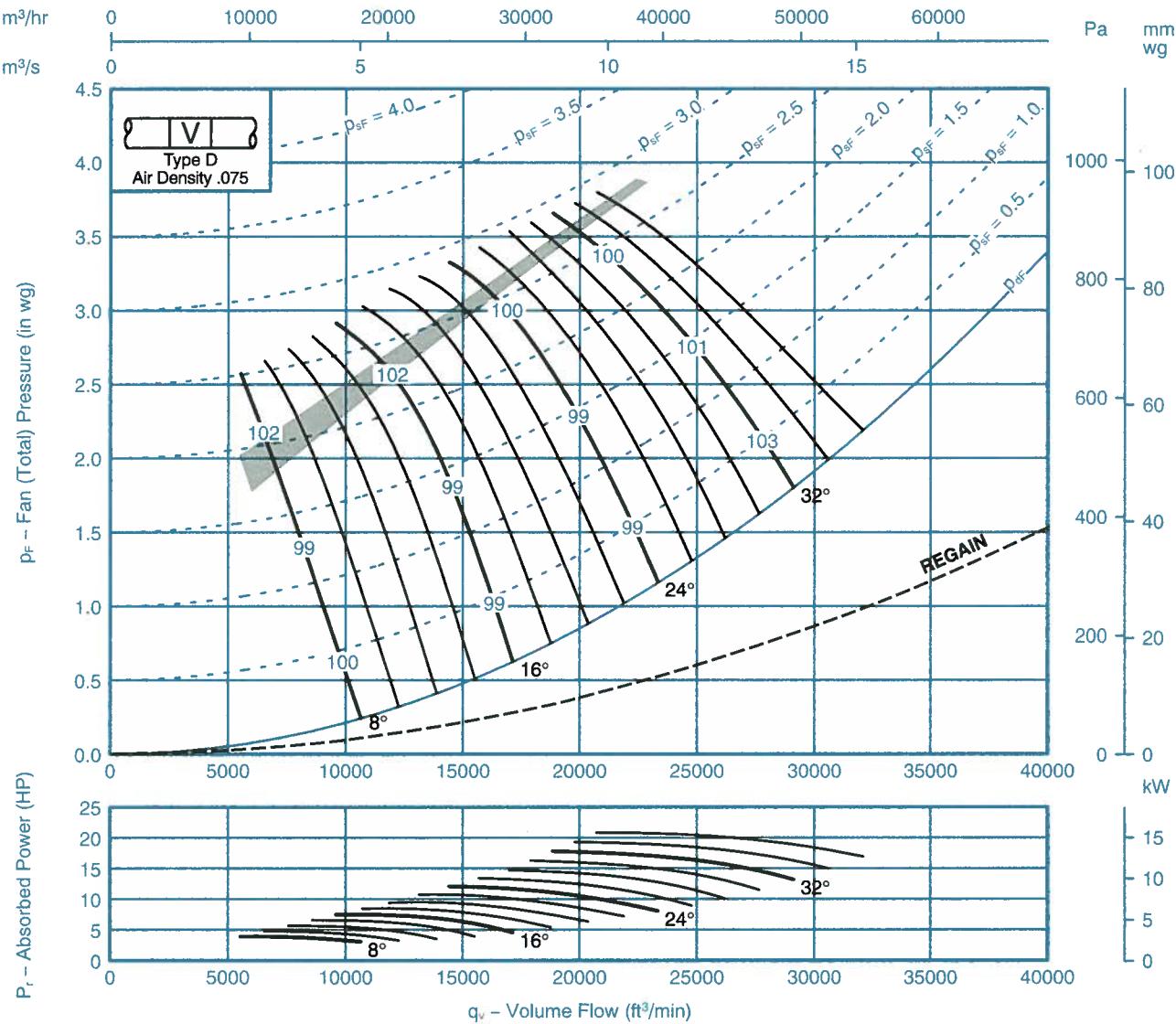
Fan Code: 80JM/25/4/9/
800 mm 1770 RPM
9 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
PH: (513) 874-2400 FAX: (513) 870-6249

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-11	-10	-7	-5	-9	-16	-25
	-10	-11	-10	-8	-7	-8	-9	-19
16°	-7	-10	-8	-6	-7	-12	-17	-22
	-6	-11	-8	-6	-9	-11	-15	-19
24-36°	-4	-12	-11	-8	-8	-12	-15	-18
	-6	-10	-9	-7	-8	-12	-15	-19

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-11	-8	-8	-5	-9	-15	-23
	-10	-11	-9	-9	-7	-7	-9	-17
16°	-6	-10	-8	-6	-7	-12	-16	-20
	-6	-11	-8	-7	-9	-10	-14	-18
24-36°	-3	-12	-11	-9	-8	-12	-14	-17
	-5	-10	-8	-8	-8	-12	-14	-17

SK10330

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-6	-3	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 80JM/31/4/9/...

800 mm 1770 RPM

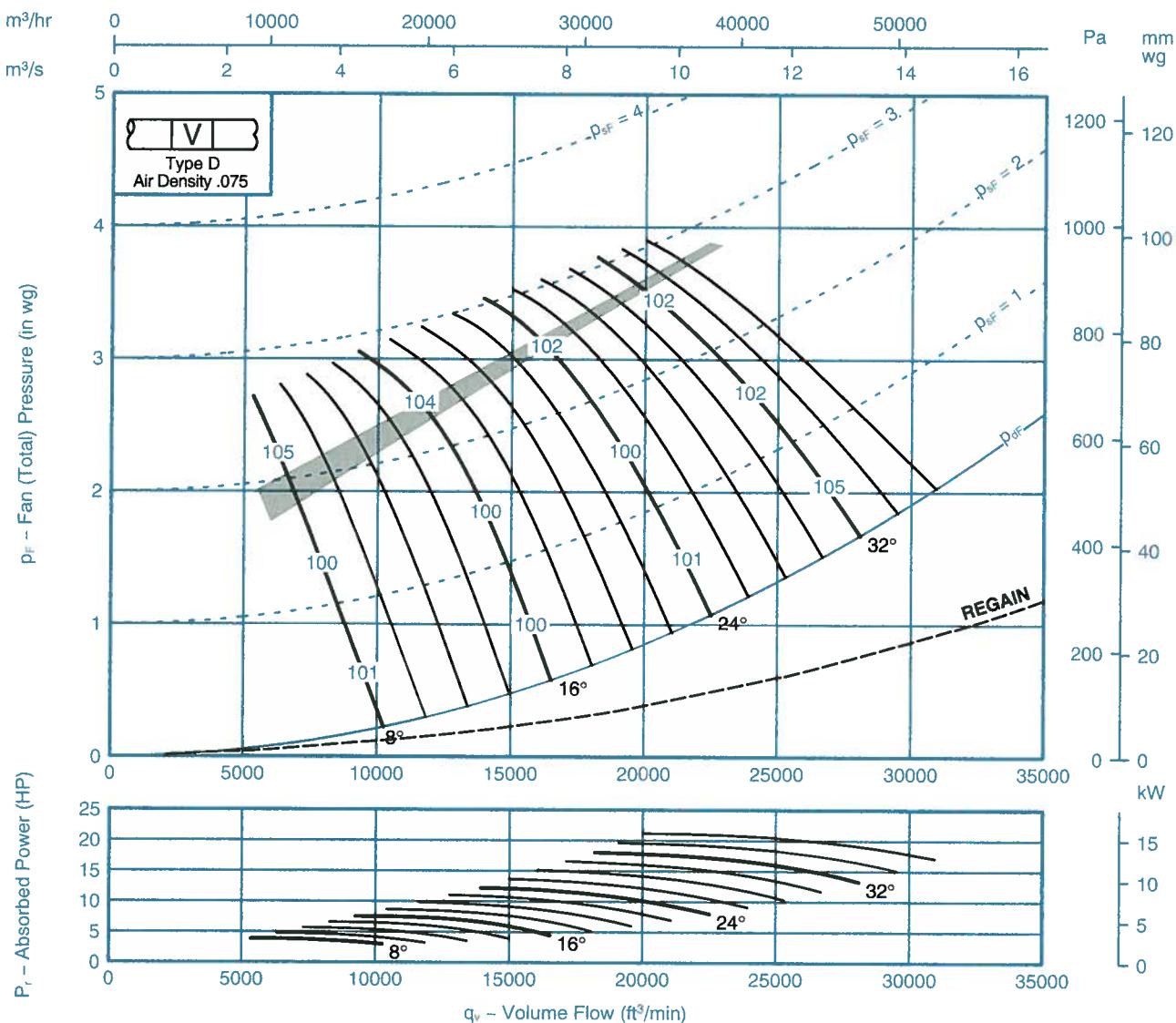
9 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
PH: (513) 874-2400 FAX: (513) 870-6249

Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-11	-10	-7	-5	-9	-16	-25
	-10	-11	-10	-8	-7	-8	-9	-19
16°	-7	-10	-8	-6	-7	-12	-17	-22
	-6	-11	-8	-6	-9	-11	-15	-19
24-40°	-4	-12	-11	-8	-8	-12	-15	-18
	-6	-10	-9	-7	-8	-12	-15	-19

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-11	-8	-8	-5	-9	-15	-23
	-10	-11	-9	-9	-7	-7	-9	-17
16°	-6	-10	-8	-6	-7	-12	-16	-20
	-6	-11	-8	-7	-9	-10	-14	-18
24-40°	-3	-12	-11	-9	-8	-12	-14	-17
	-5	-10	-8	-8	-8	-12	-14	-17

SK10633

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-6	-3	0	0	0	0	0	0



JM AEROFOIL

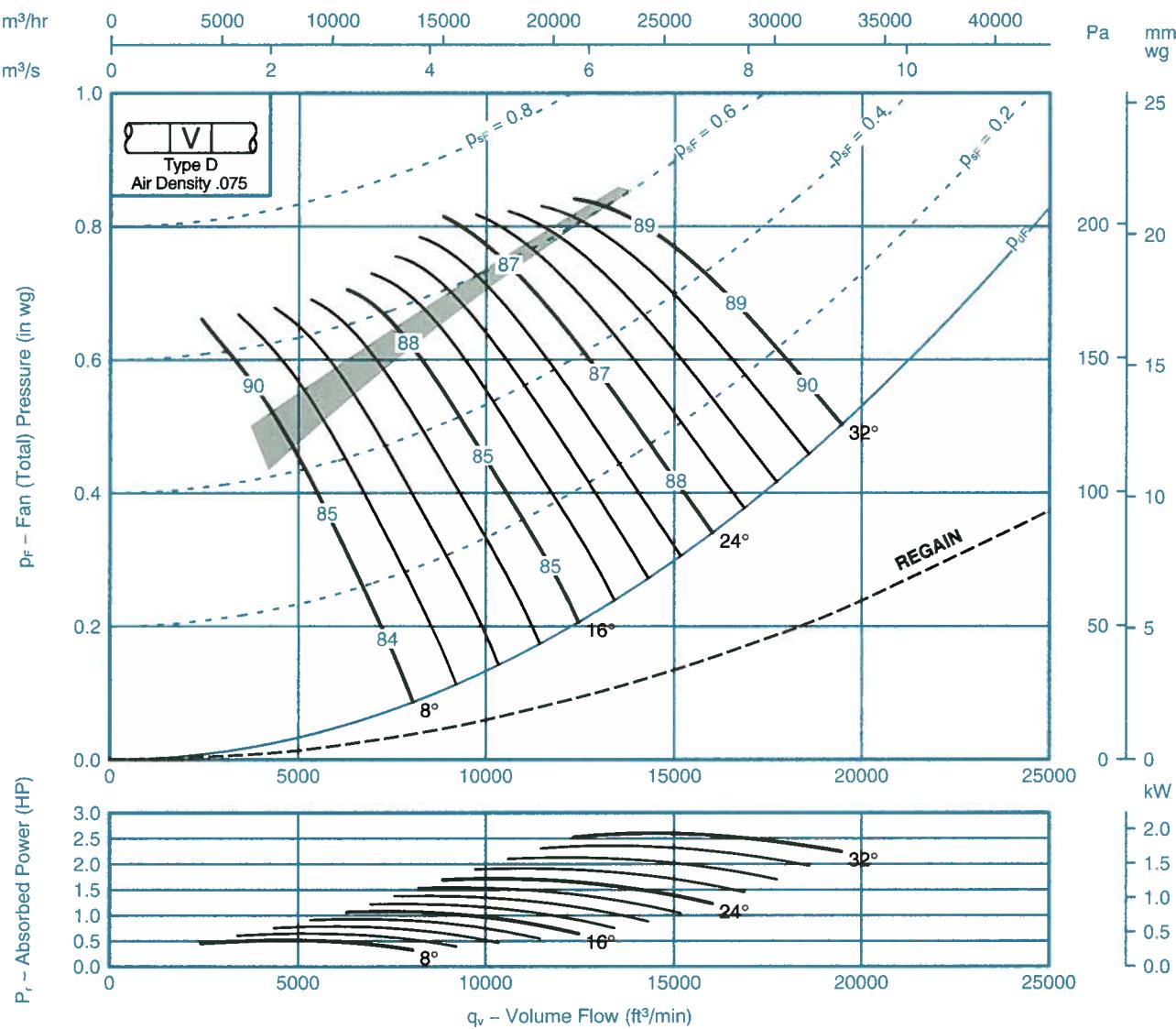
Fan Code: 90JM/25/8/6/...
900 mm 875 RPM
6 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-12	-5	-3	-9	-15	-21	-29
	-10	-11	-9	-6	-6	-10	-16	-23
16°	-12	-10	-7	-4	-8	-14	-20	-27
	-6	-6	-8	-8	-10	-13	-17	-23
24-32°	-7	-8	-7	-7	-9	-13	-17	-22
	-5	-7	-8	-8	-10	-13	-17	-22

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-12	-5	-3	-9	-15	-21	-27
	-10	-11	-9	-5	-5	-9	-15	-21
16°	-10	-10	-7	-4	-8	-14	-19	-25
	-6	-6	-8	-8	-10	-12	-16	-22
24-32°	-6	-7	-7	-7	-7	-9	-13	-16
	-4	-7	-8	-8	-10	-13	-16	-20

SK10331

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-6	-2	0	0	0	0	0	0



JM AEROFOIL

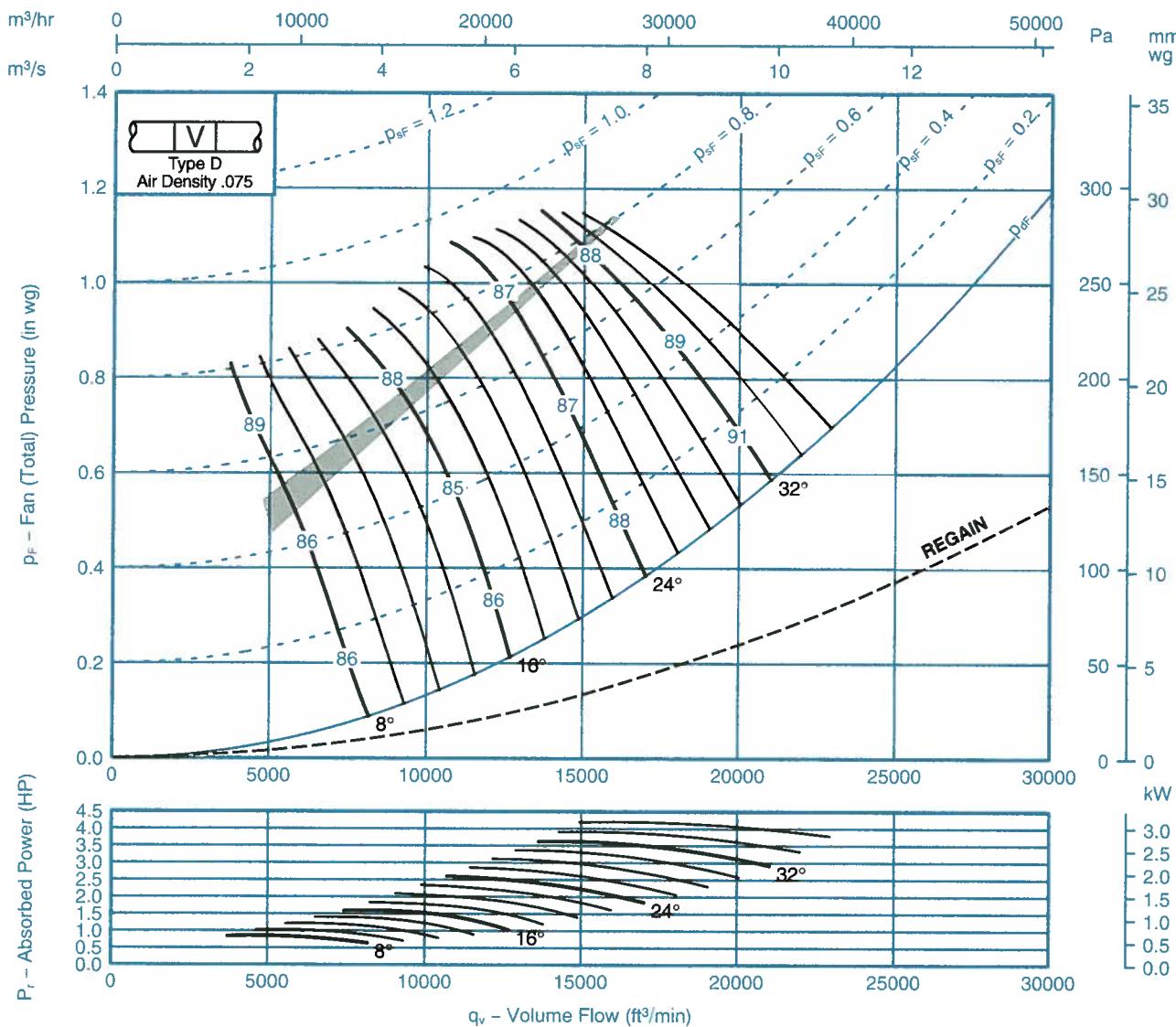
Fan Code: 90JM/25/8/9/...
900 mm 875 RPM
9 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-11	-7	-4	-7	-13	-21	-28
	-13	-9	-8	-6	-6	-8	-16	-22
16°	-12	-10	-6	-4	-8	-13	-19	-26
	-10	-7	-6	-7	-8	-12	-17	-23
24-36°	-9	-8	-7	-6	-8	-12	-15	-20
	-7	-7	-7	-8	-10	-13	-17	-22

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-9	-7	-4	-7	-13	-20	-26
	-13	-9	-8	-6	-6	-7	-15	-21
16°	-11	-10	-6	-4	-8	-13	-18	-24
	-9	-7	-6	-7	-8	-12	-16	-21
24-36°	-7	-8	-7	-6	-8	-12	-14	-19
	-6	-6	-7	-8	-10	-13	-15	-20

SK10332

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-6	-2	0	0	0	0	0	0



JM AEROFOIL

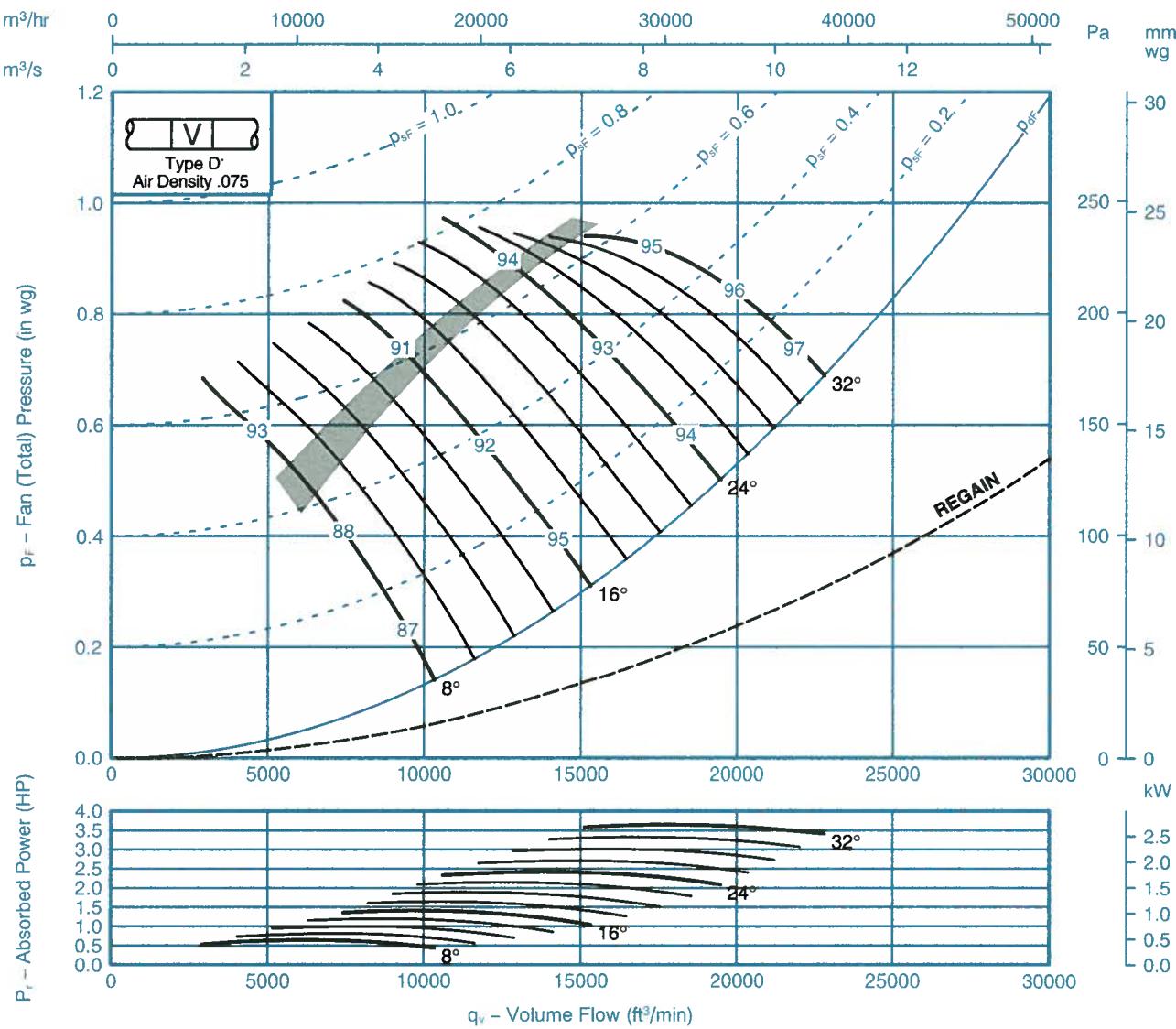
Fan Code: 90JM/25/6/3/
900 mm 1170 RPM
3 Blades 60 Hz



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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-14	-8	-4	-7	-13	-19	-25
	-4	-11	-9	-9	-9	-12	-15	-20
16°	-3	-11	-10	-10	-11	-13	-16	-20
	-2	-10	-11	-12	-13	-16	-18	-22
24-32°	-4	-8	-8	-10	-11	-14	-17	-21
	-3	-9	-10	-10	-11	-13	-16	-20

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-7	-14	-8	-4	-7	-13	-18	-22
	-2	-11	-9	-9	-9	-10	-14	-18
16°	-1	-11	-10	-10	-10	-13	-15	-17
	-1	-10	-11	-12	-13	-15	-17	-20
24-32°	-3	-7	-8	-10	-10	-11	-13	-19
	-2	-9	-10	-10	-11	-13	-15	-17

SK10704

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-6	-2	0	0	0	0	0	0



JM AEROFOIL

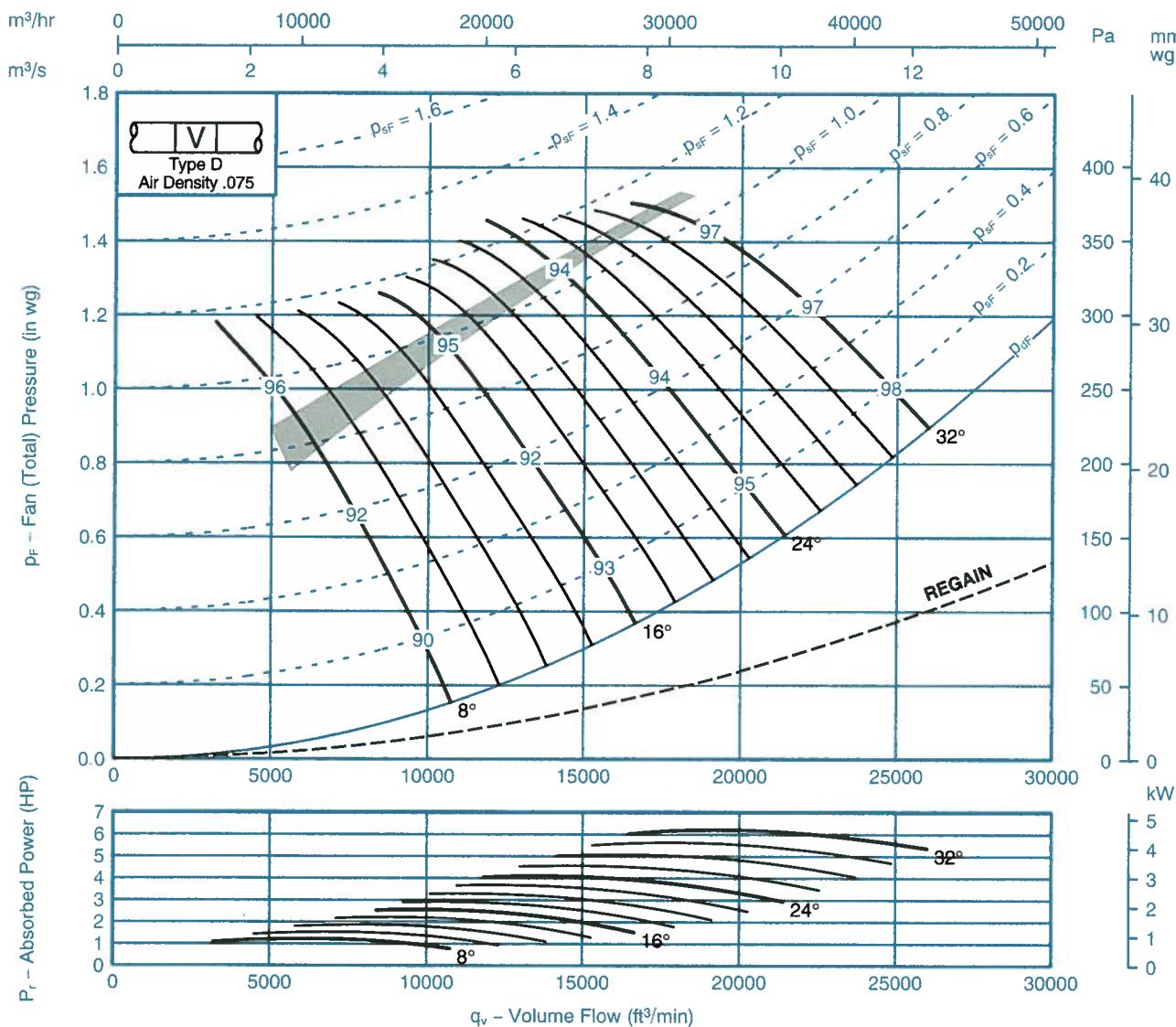
Fan Code: 90JM/25/6/6/
900 mm 1170 RPM
6 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-15	-8	-4	-6	-13	-19	-26
	-9	-13	-10	-9	-5	-9	-14	-21
16°	-10	-13	-10	-5	-6	-12	-18	-24
	-5	-9	-9	-10	-10	-12	-17	-22
24-32°	-6	-9	-8	-8	-8	-12	-16	-20
	-5	-8	-8	-9	-10	-13	-16	-21

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-13	-7	-4	-6	-13	-18	-24
	-8	-12	-10	-9	-5	-7	-13	-19
16°	-8	-12	-10	-5	-5	-12	-17	-22
	-4	-8	-9	-9	-9	-11	-15	-20
24-32°	-5	-9	-8	-7	-8	-12	-15	-19
	-4	-7	-8	-9	-9	-12	-15	-19

SK10333

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-6	-2	0	0	0	0	0	0



JM AEROFOIL

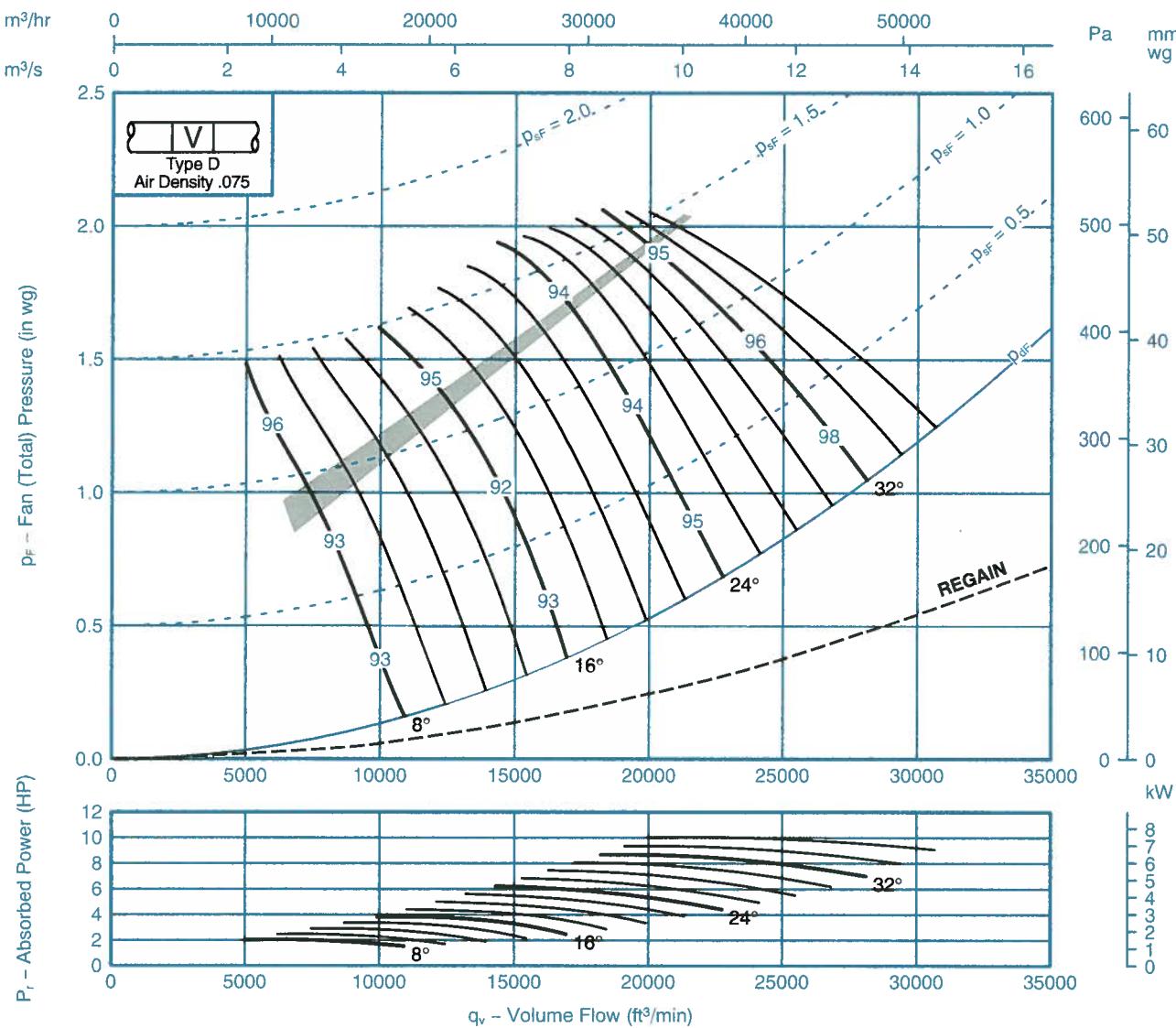
Fan Code: 90JM/25/6/9/...
900 mm 1170 RPM
9 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-12	-11	-5	-5	-11	-19	-26
	-14	-11	-10	-8	-6	-7	-13	-20
16°	-12	-12	-8	-5	-7	-12	-17	-24
	-9	-9	-7	-8	-8	-11	-16	-21
24-36°	-8	-9	-8	-8	-8	-11	-14	-19
	-6	-8	-7	-8	-9	-12	-16	-20

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-10	-10	-4	-5	-10	-17	-23
	-13	-9	-10	-7	-5	-6	-12	-18
16°	-10	-12	-8	-4	-6	-11	-16	-21
	-8	-8	-7	-7	-7	-10	-14	-19
24-36°	-6	-9	-8	-7	-7	-10	-14	-17
	-6	-7	-7	-8	-9	-12	-15	-18

SK10334

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-6	-2	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 90JM/25/4/6/...

900 mm 1770 RPM

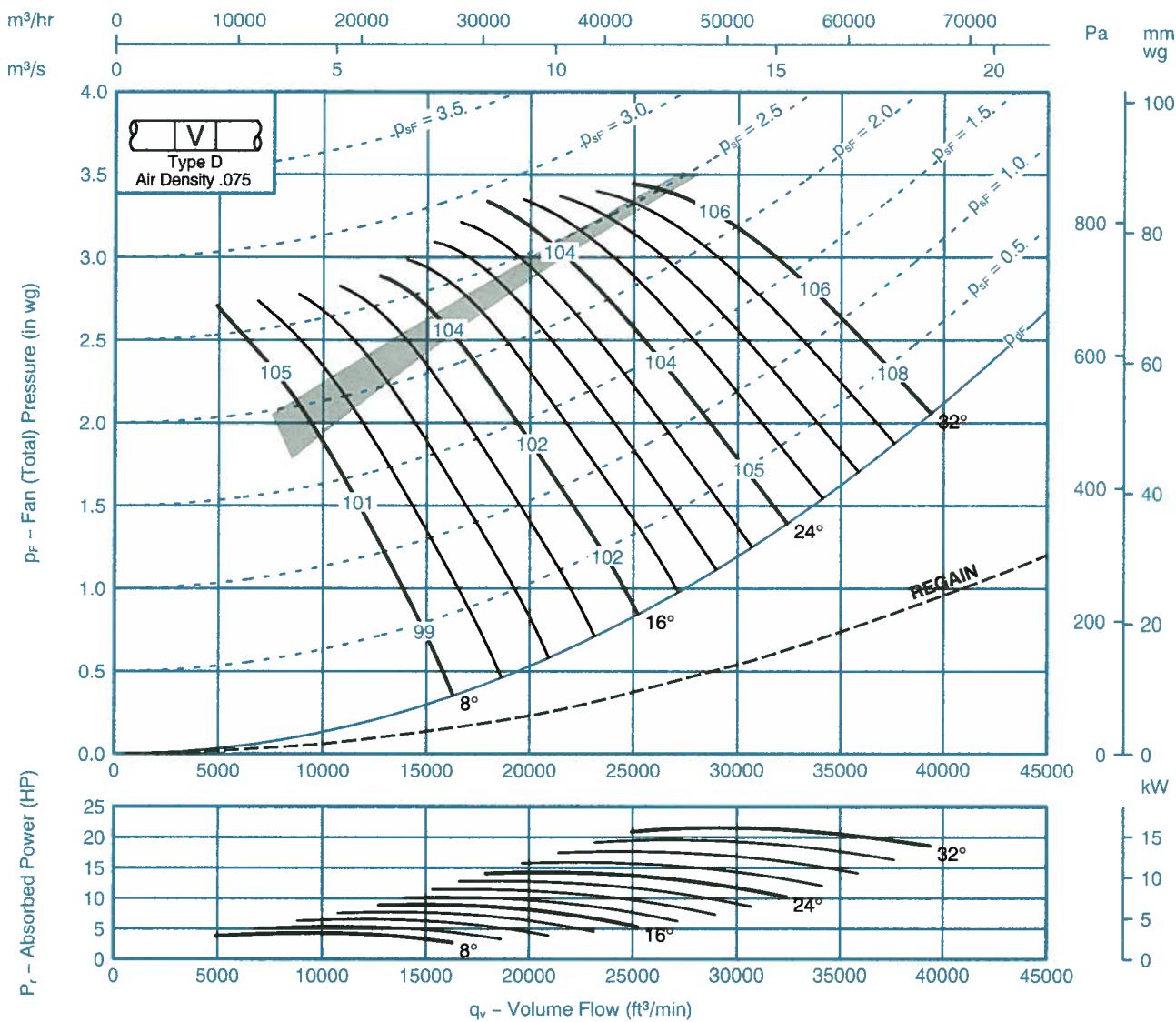
6 Blades 60 Hz



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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

Performance ratings do not include the effects of appurtenances in the airstream.



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-16	-13	-6	-4	-9	-16	-22
	-10	-12	-12	-11	-7	-7	-11	-17
16°	-10	-12	-11	-8	-4	-9	-15	-21
	-7	-8	-8	-10	-10	-11	-14	-19
24-32°	-7	-8	-9	-8	-8	-10	-14	-18
	-6	-7	-9	-9	-10	-12	-15	-18

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-14	-12	-6	-4	-9	-15	-19
	-9	-10	-12	-10	-6	-5	-10	-15
16°	-9	-12	-11	-7	-4	-9	-14	-18
	-6	-7	-8	-9	-9	-10	-13	-16
24-32°	-5	-8	-9	-8	-8	-10	-14	-16
	-5	-6	-9	-9	-10	-11	-14	-16

SK10706

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-6	-2	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 90JM/31/4/9/...

900 mm 1770 RPM

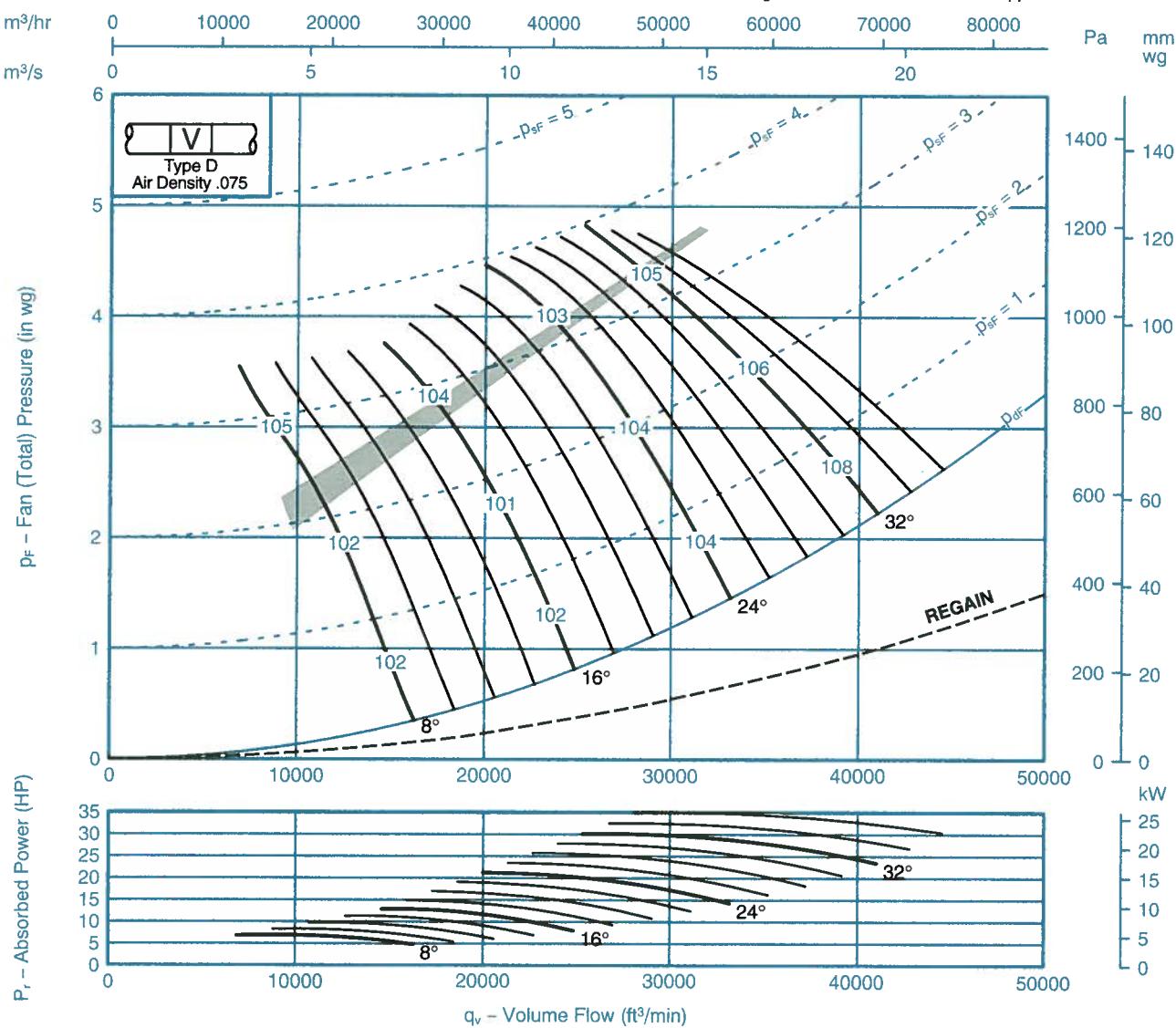
9 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
PH: (513) 874-2400 FAX: (513) 870-6249

Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-16	-12	-8	-5	-7	-14	-22
	-14	-14	-10	-9	-7	-6	-9	-16
16°	-11	-13	-11	-7	-6	-9	-14	-20
	-8	-11	-8	-7	-8	-9	-13	-18
24-36°	-6	-10	-10	-9	-8	-10	-13	-17
	-6	-9	-8	-8	-9	-11	-14	-18

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-15	-10	-9	-4	-6	-12	-19
	-13	-14	-9	-10	-7	-5	-8	-15
16°	-9	-13	-10	-7	-5	-8	-13	-18
	-8	-10	-8	-8	-7	-9	-12	-16
24-36°	-5	-10	-9	-9	-8	-10	-12	-15
	-5	-8	-7	-9	-9	-11	-13	-16

SK10336

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-6	-2	0	0	0	0	0	0



JM AEROFOIL

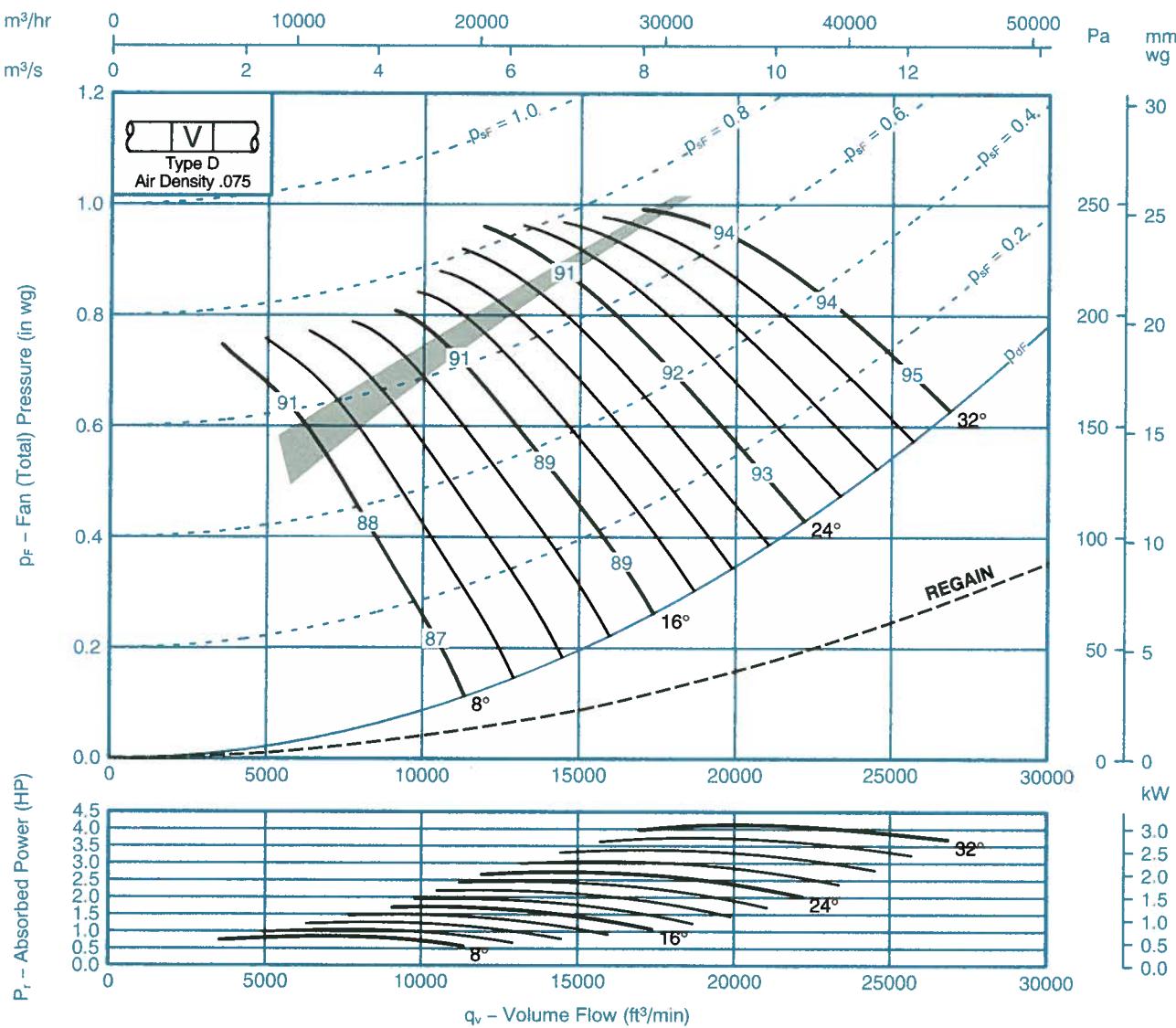
Fan Code: 100JM/25/8/6/
1000 mm 875 RPM
6 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-12	-6	-4	-7	-14	-19	-27
	-10	-10	-11	-7	-5	-8	-14	-21
16°	-14	-13	-7	-3	-7	-14	-19	-26
	-7	-9	-8	-6	-8	-11	-16	-23
24-32°	-8	-8	-7	-7	-9	-13	-17	-23
	-5	-8	-8	-9	-9	-13	-16	-22

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-12	-6	-4	-7	-13	-19	-25
	-9	-10	-11	-7	-5	-7	-14	-20
16°	-13	-13	-7	-3	-7	-14	-18	-25
	-6	-9	-8	-6	-8	-11	-15	-22
24-32°	-6	-8	-7	-7	-9	-13	-16	-21
	-4	-8	-8	-8	-9	-13	-15	-20

SK10337

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0



JM AEROFOIL

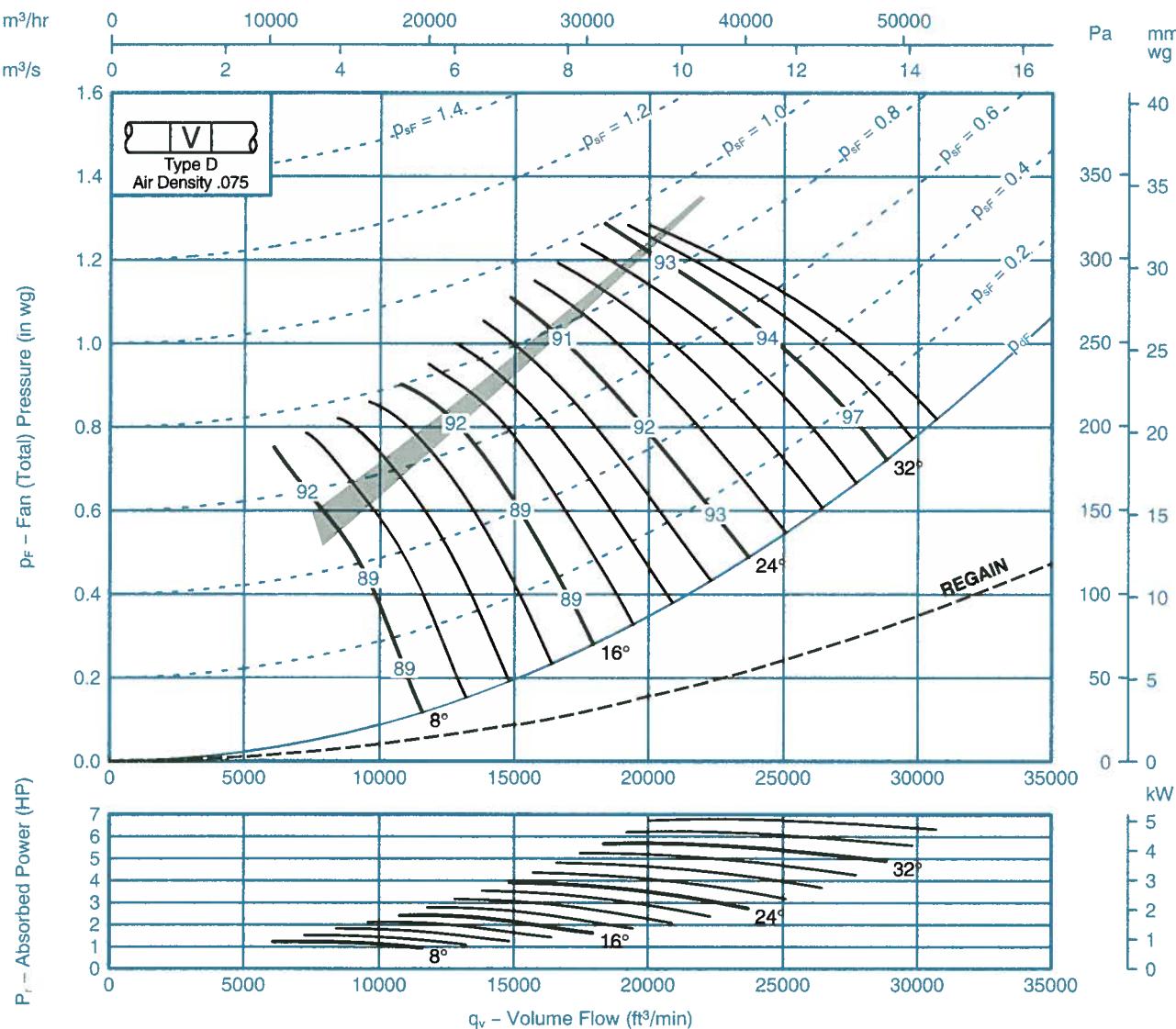
Fan Code: 100JM/25/8/9/...
1000 mm 875 RPM
9 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-20	-15	-9	-4	-5	-11	-18	-26
	-17	-10	-10	-6	-4	-8	-14	-20
16°	-16	-12	-7	-4	-6	-11	-18	-26
	-10	-8	-8	-6	-7	-11	-16	-22
24-36°	-8	-8	-8	-7	-7	-11	-15	-21
	-6	-7	-8	-9	-9	-12	-16	-22

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-19	-13	-9	-4	-5	-11	-17	-24
	-17	-9	-10	-6	-4	-7	-14	-19
16°	-14	-12	-7	-4	-6	-11	-17	-24
	-10	-7	-8	-6	-7	-11	-15	-21
24-36°	-7	-8	-7	-7	-7	-11	-14	-19
	-5	-6	-8	-9	-9	-12	-15	-20

SK1038

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0



JM AEROFOIL

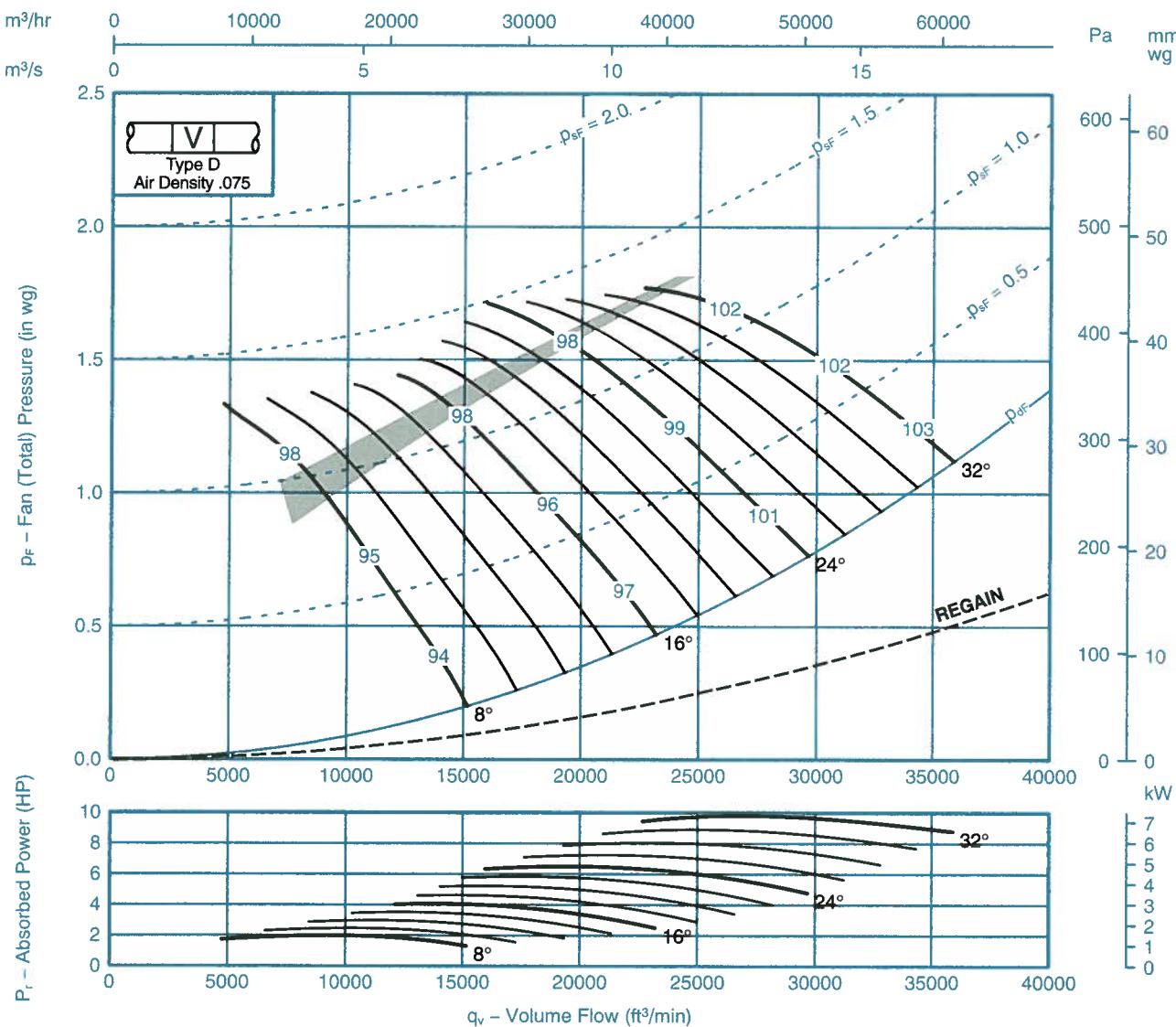
Fan Code: 100JM/25/6/6/
1000 mm 1170 RPM
6 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-16	-8	-5	-5	-12	-17	-24
	-7	-13	-10	-12	-6	-8	-13	-20
16°	-11	-16	-10	-5	-5	-11	-18	-23
	-5	-11	-10	-9	-8	-11	-16	-21
24-32°	-6	-9	-8	-7	-8	-11	-16	-20
	-4	-8	-9	-10	-10	-12	-16	-20

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12	-14	-8	-5	-5	-11	-16	-21
	-6	-12	-10	-12	-5	-6	-12	-18
16°	-9	-16	-10	-5	-5	-11	-17	-22
	-4	-10	-9	-9	-8	-10	-15	-20
24-32°	-5	-9	-7	-7	-8	-11	-15	-19
	-3	-8	-9	-10	-10	-12	-15	-19

SK10339

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0



JM AEROFOIL

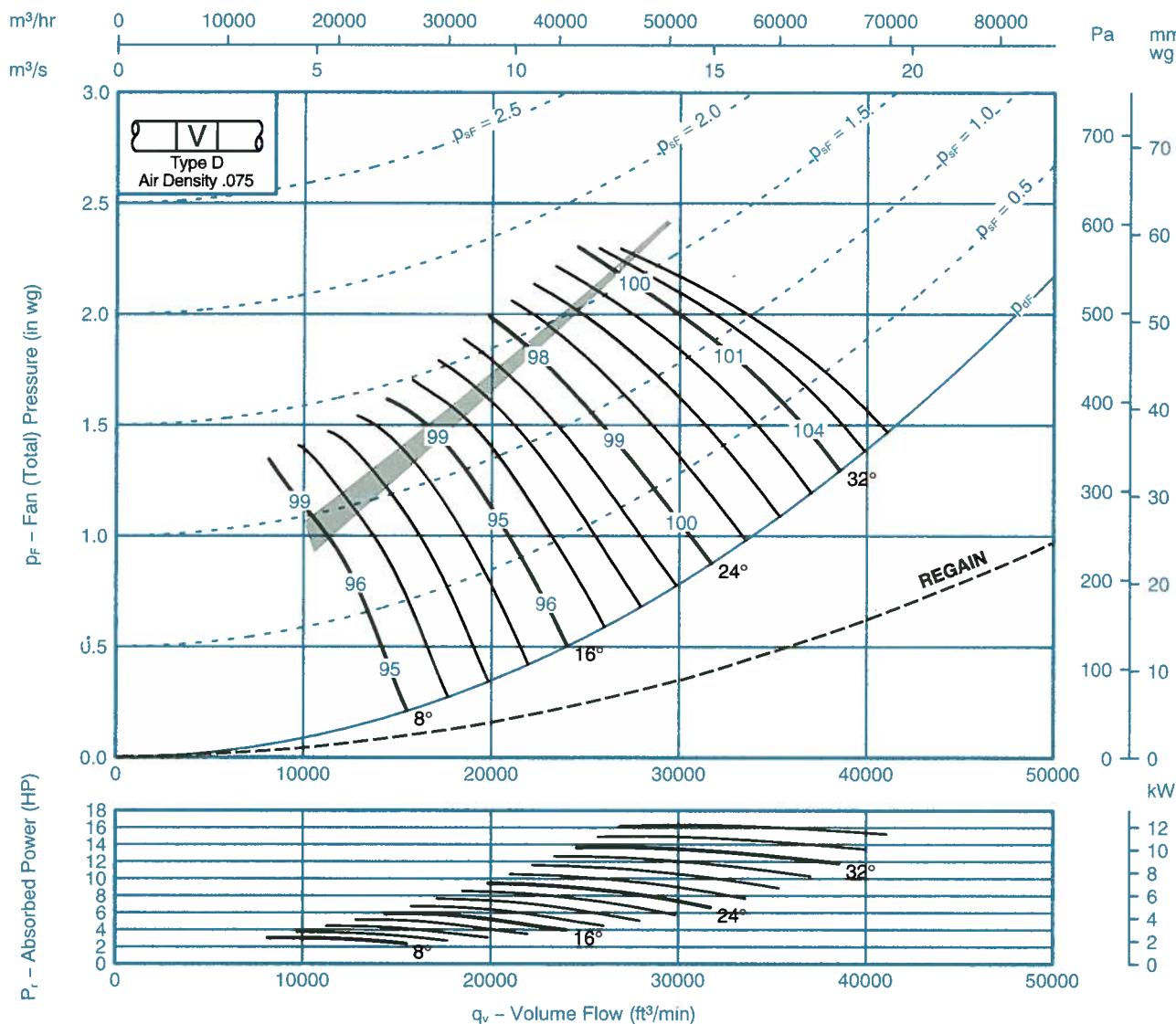
Fan Code: 100JM/25/6/9/...
1000 mm 1170 RPM
9 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									
Pitch Angle	Octave Band Center Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
8°	-21	-16	-12	-5	-4	-8	-15	-23	
	-17	-11	-12	-9	-4	-6	-12	-18	
16°	-15	-14	-12	-4	-5	-9	-15	-22	
	-10	-9	-9	-7	-7	-9	-14	-20	
24-36°	-7	-9	-9	-8	-7	-9	-14	-18	
	-5	-7	-8	-9	-9	-11	-15	-19	

Outlet Levels									
Pitch Angle	Octave Band Center Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
8°	-19	-13	-12	-5	-4	-8	-15	-20	
	-17	-10	-12	-9	-4	-5	-11	-16	
16°	-13	-14	-12	-4	-5	-9	-15	-21	
	-9	-8	-9	-7	-6	-9	-13	-18	
24-36°	-6	-9	-8	-8	-7	-9	-13	-17	
	-5	-7	-8	-9	-9	-11	-14	-18	

SK10340

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0



JM AEROFOIL

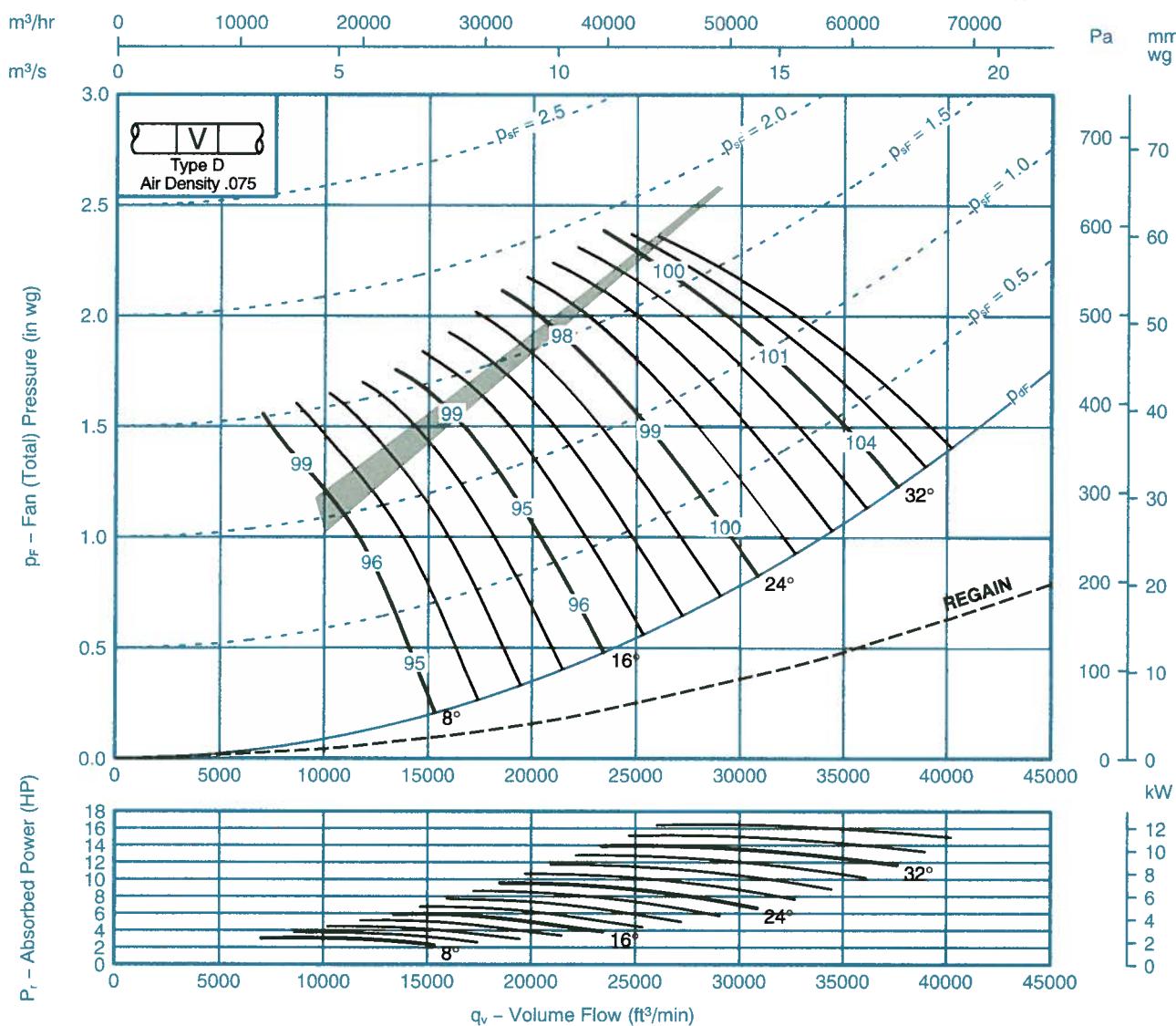
Fan Code: 100JM/31/6/9/...
 1000 mm 1170 RPM
 9 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels		Octave Band Center Frequency (Hz)							
Pitch Angle	63	125	250	500	1k	2k	4k	8k	
8°	-20 -17	-15 -11	-12 -11	-5 -8	-4 -4	-8 -6	-15 -12	-22 -17	
16°	-15 -9	-13 -8	-11 -9	-4 -7	-5 -6	-9 -9	-15 -14	-22 -19	
24-36°	-8 -6	-9 -7	-9 -8	-8 -9	-8 -9	-10 -11	-14 -15	-17 -19	

Outlet Levels		Octave Band Center Frequency (Hz)							
Pitch Angle	63	125	250	500	1k	2k	4k	8k	
8°	-19 -17	-13 -10	-12 -11	-5 -8	-4 -4	-8 -7	-14 -13	-20 -18	
16°	-13 -9	-13 -8	-11 -9	-4 -7	-5 -6	-9 -9	-14 -13	-20 -18	
24-36°	-6 -5	-8 -7	-8 -8	-8 -9	-8 -9	-10 -11	-13 -14	-16 -17	

SK10341

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0



JM AEROFOIL

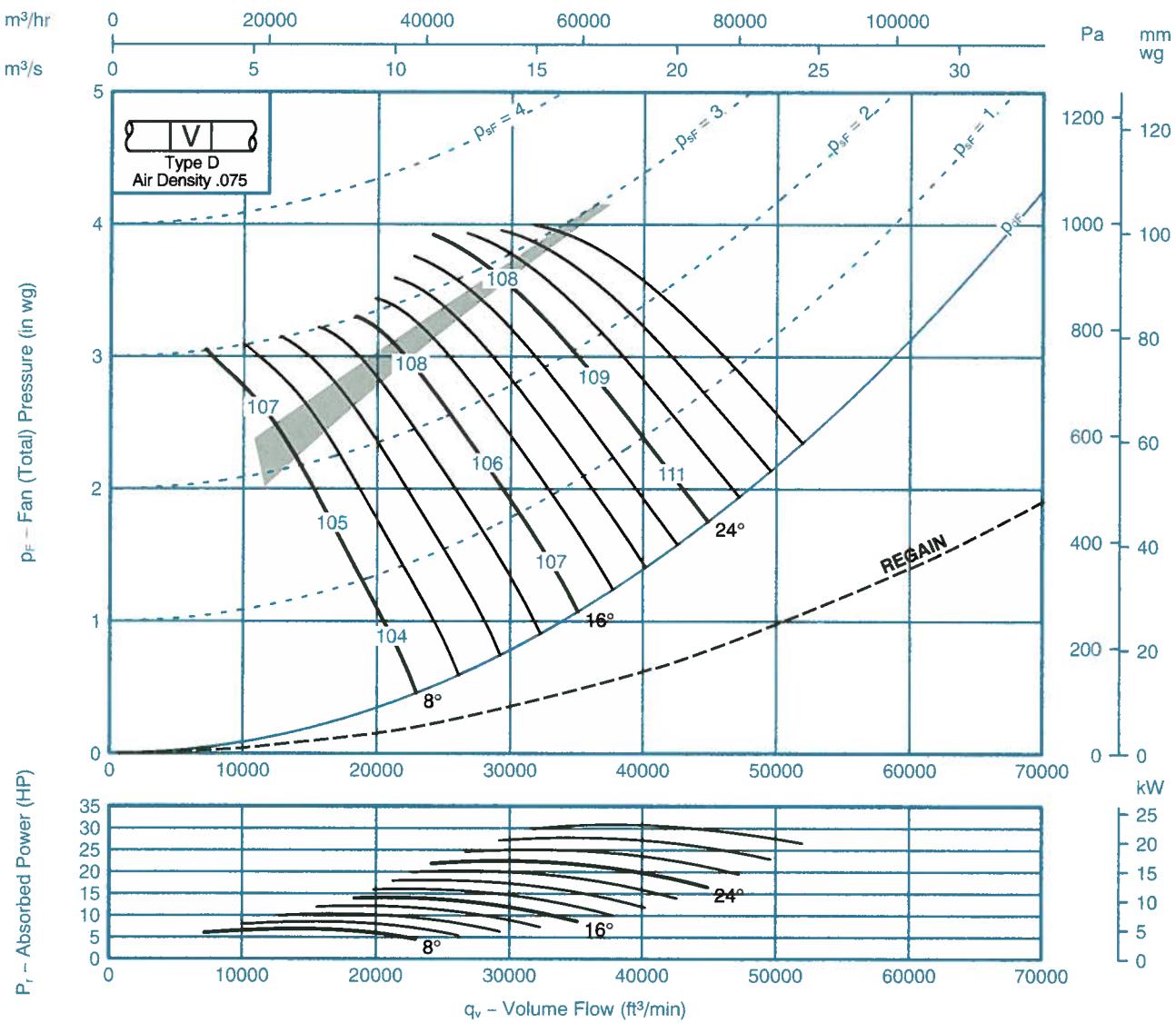
Fan Code: 100JM/25/4/6/...
1000 mm 1770 RPM
6 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									
Pitch Angle	Octave Band Center Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
8°	-12	-17	-13	-6	-4	-8	-14	-20	
	-6	-12	-12	-13	-9	-7	-10	-16	
16°	-9	-15	-14	-7	-4	-8	-14	-20	
	-4	-9	-11	-11	-9	-10	-14	-18	
24-30°	-7	-9	-9	-7	-8	-9	-13	-18	
	-5	-7	-10	-10	-11	-11	-15	-18	

Outlet Levels									
Pitch Angle	Octave Band Center Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
8°	-11	-15	-13	-6	-4	-7	-13	-17	
	-6	-11	-12	-12	-9	-5	-9	-14	
16°	-8	-15	-14	-7	-4	-8	-13	-18	
	-4	-9	-11	-10	-9	-9	-13	-17	
24-30°	-6	-8	-9	-7	-8	-9	-13	-16	
	-4	-6	-9	-10	-11	-11	-13	-16	

SK10710

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 100JM/31/4/9/...

1000 mm 1770 RPM

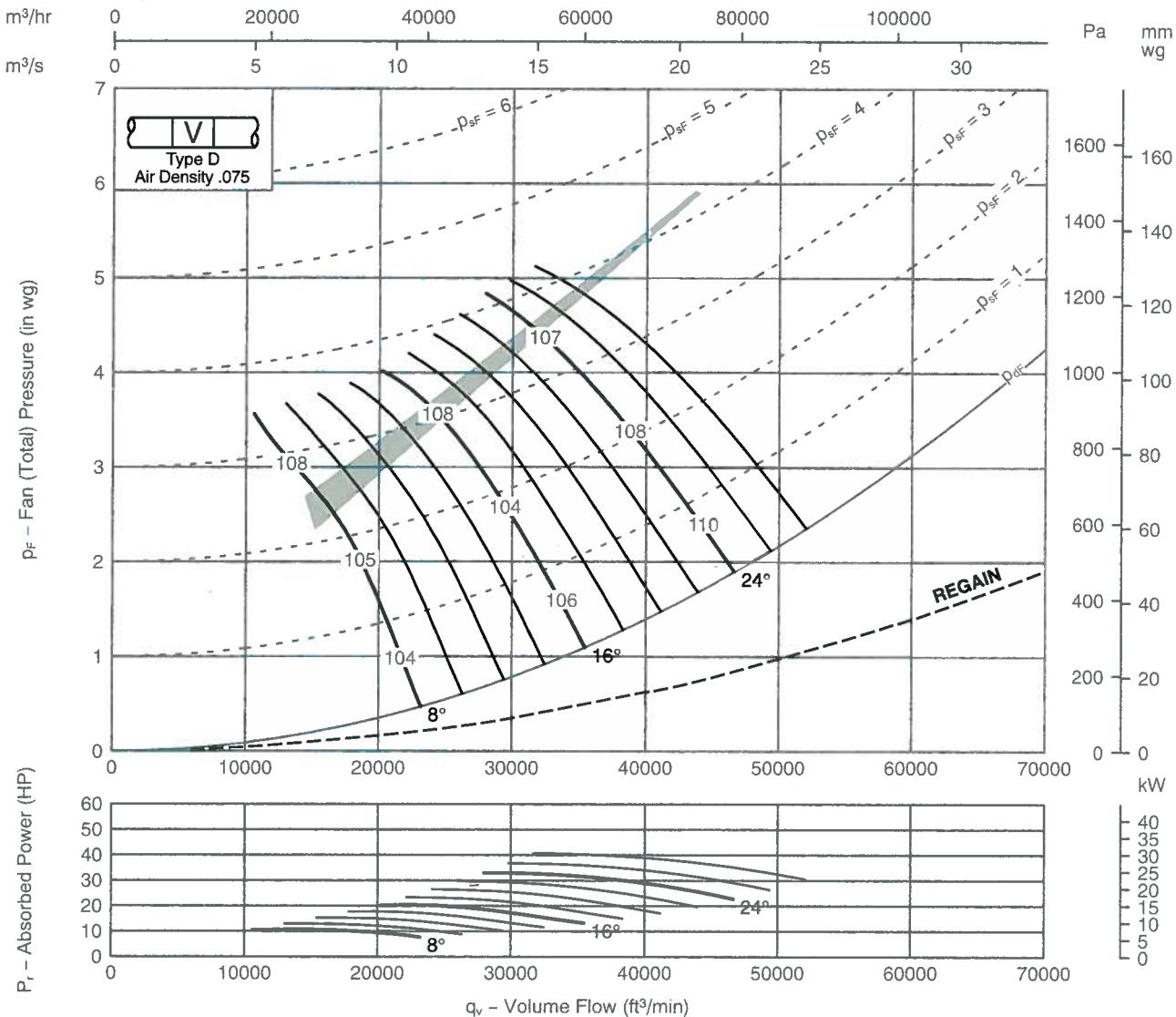
9 Blades 60 Hz



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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-21	-21	-15	-10	-4	-5	-11	-18
	-17	-18	-11	-10	-7	-4	-8	-14
16°	-15	-16	-12	-8	-4	-6	-11	-18
	-10	-11	-8	-8	-7	-8	-12	-16
24-28°	-8	-9	-9	-8	-8	-8	-12	-16
	-7	-7	-8	-9	-10	-10	-13	-17

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-20	-20	-13	-9	-4	-5	-10	-16
	-17	-18	-9	-10	-7	-3	-8	-13
16°	-14	-16	-12	-8	-4	-6	-10	-16
	-9	-11	-8	-8	-6	-7	-11	-15
24-28°	-7	-9	-9	-8	-8	-8	-11	-14
	-6	-7	-7	-9	-10	-10	-12	-15

SK10342

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 100JM/40/8/6/...

1000 mm 875 RPM

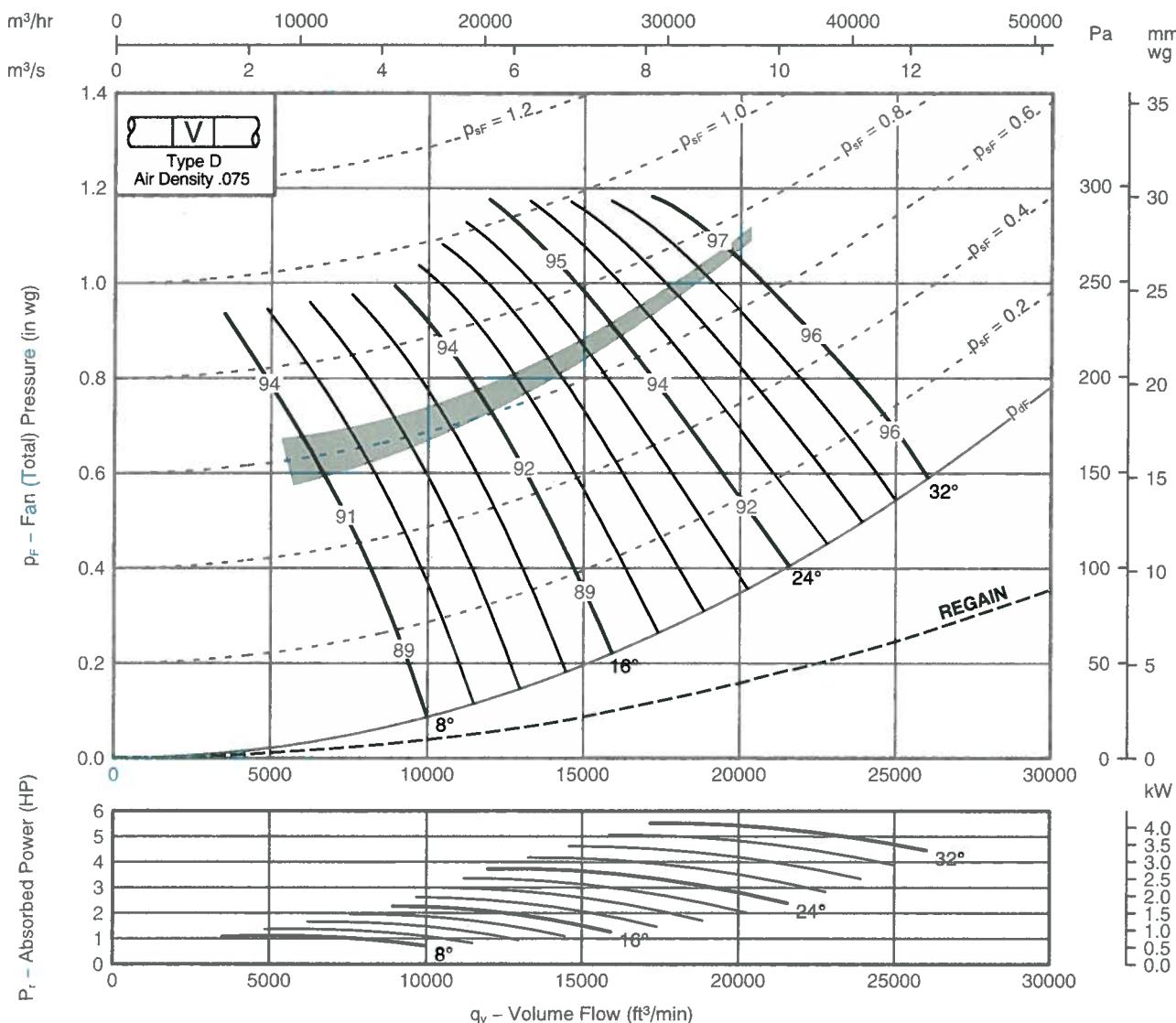
6 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-7	-12	-5	-6	-10	-18	-23	-32
	-3	-10	-9	-9	-11	-14	-20	-28
16°	-3	-10	-8	-10	-13	-17	-21	-30
	-3	-9	-8	-12	-13	-17	-21	-30
24-32°	-3	-9	-8	-12	-12	-15	-19	-24
	-4	-8	-7	-11	-12	-16	-21	-24

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-4	-11	-5	-5	-10	-18	-24	-31
	0	-9	-9	-9	-11	-14	-20	-27
16°	0	-9	-8	-10	-13	-17	-21	-28
	-0	-8	-9	-12	-13	-16	-22	-29
24-32°	0	-9	-9	-12	-12	-14	-18	-23
	-1	-7	-8	-11	-12	-16	-21	-23

SK11496

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 100JM/40/8/9/...

1000 mm 875 RPM

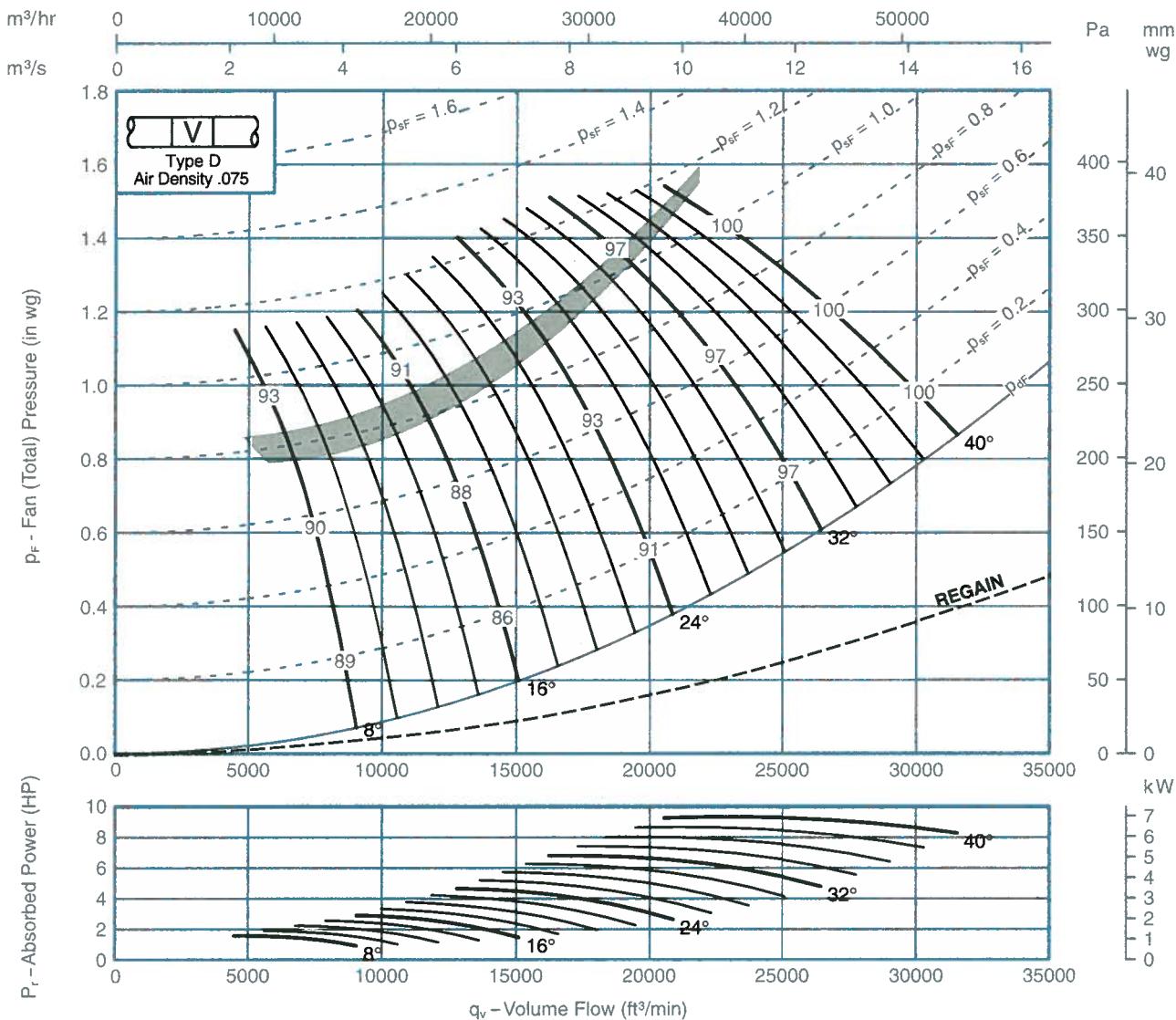
9 Blades 60 Hz



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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-9	-7	-4	-7	-11	-18	-24	-32
	-11	-6	-7	-7	-7	-12	-19	-28
16°	-9	-9	-5	-6	-9	-13	-20	-28
	-8	-6	-7	-10	-9	-13	-18	-25
24-40°	-5	-8	-5	-13	-13	-15	-17	-23
	-6	-6	-5	-13	-15	-16	-19	-26

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-7	-4	-4	-6	-11	-17	-23	-30
	-7	-3	-7	-7	-8	-12	-18	-27
16°	-4	-7	-4	-6	-11	-14	-19	-27
	-2	-3	-6	-9	-10	-11	-17	-24
24-40°	-2	-5	-3	-12	-13	-15	-16	-22
	-2	-3	-3	-12	-14	-16	-18	-25

SK11497

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0



JM AEROFOIL

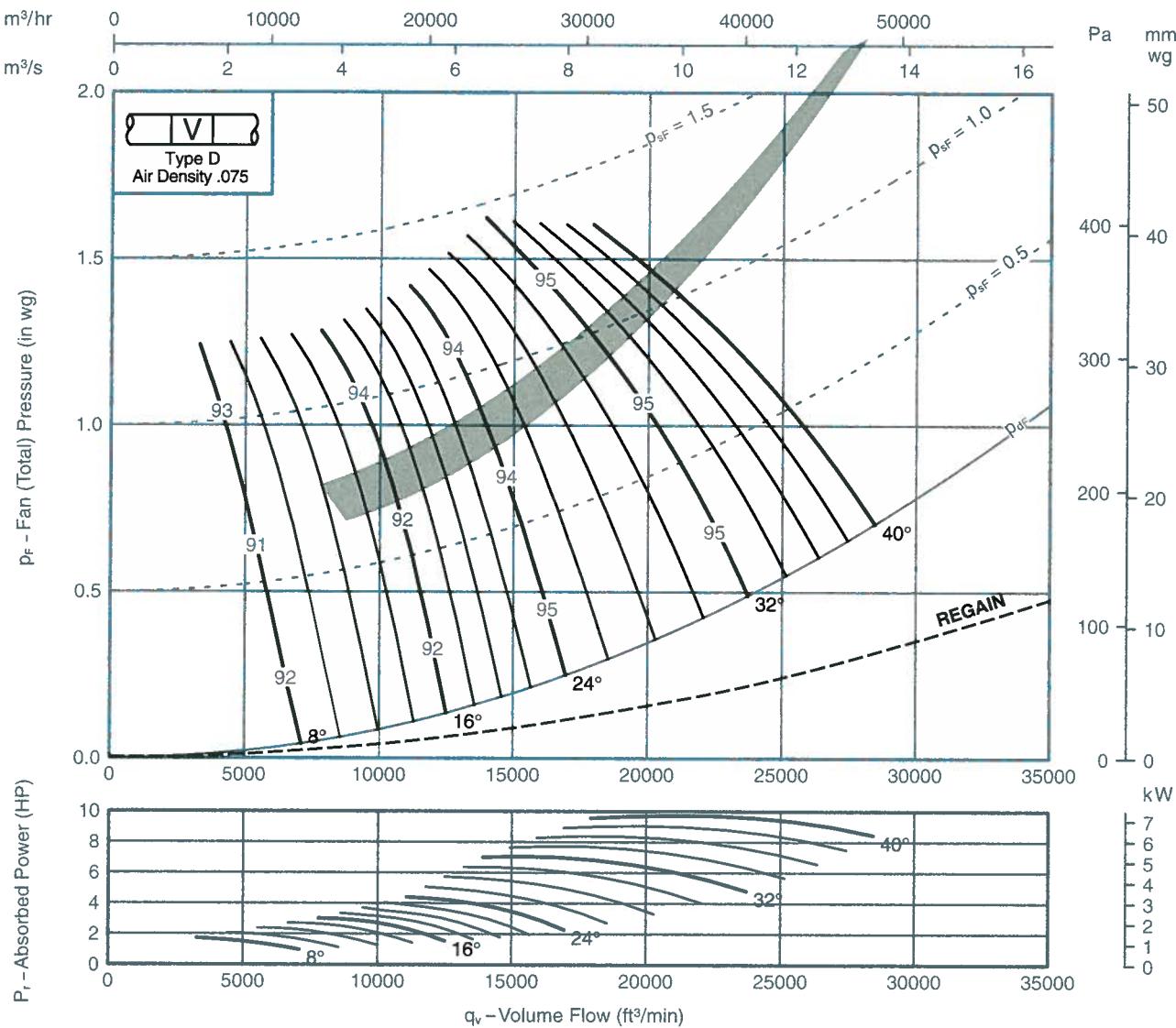
Fan Code: 100JM/50/8/12/...
1000 mm 875 RPM
12 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
PH: (513) 874-2400 FAX: (513) 870-6249

Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-18	-6	-8	-4	-8	-15	-20	-28
	-17	-6	-8	-5	-8	-13	-18	-25
16°	-14	-6	-8	-6	-8	-14	-20	-27
	-12	-4	-9	-8	-9	-13	-17	-25
24-40°	-8	-5	-8	-8	-10	-14	-17	-21
	-8	-4	-8	-8	-10	-14	-17	-23

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-4	-7	-6	-8	-12	-17	-25
	-14	-3	-7	-7	-8	-11	-15	-23
16°	-11	-3	-7	-6	-8	-12	-17	-24
	-9	0	-8	-7	-9	-11	-14	-22
24-40°	-6	-3	-7	-8	-10	-11	-14	-19
	-6	-2	-7	-8	-10	-12	-14	-20

SK11498

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 100JM/40/6/6/...

1000 mm 1170 RPM

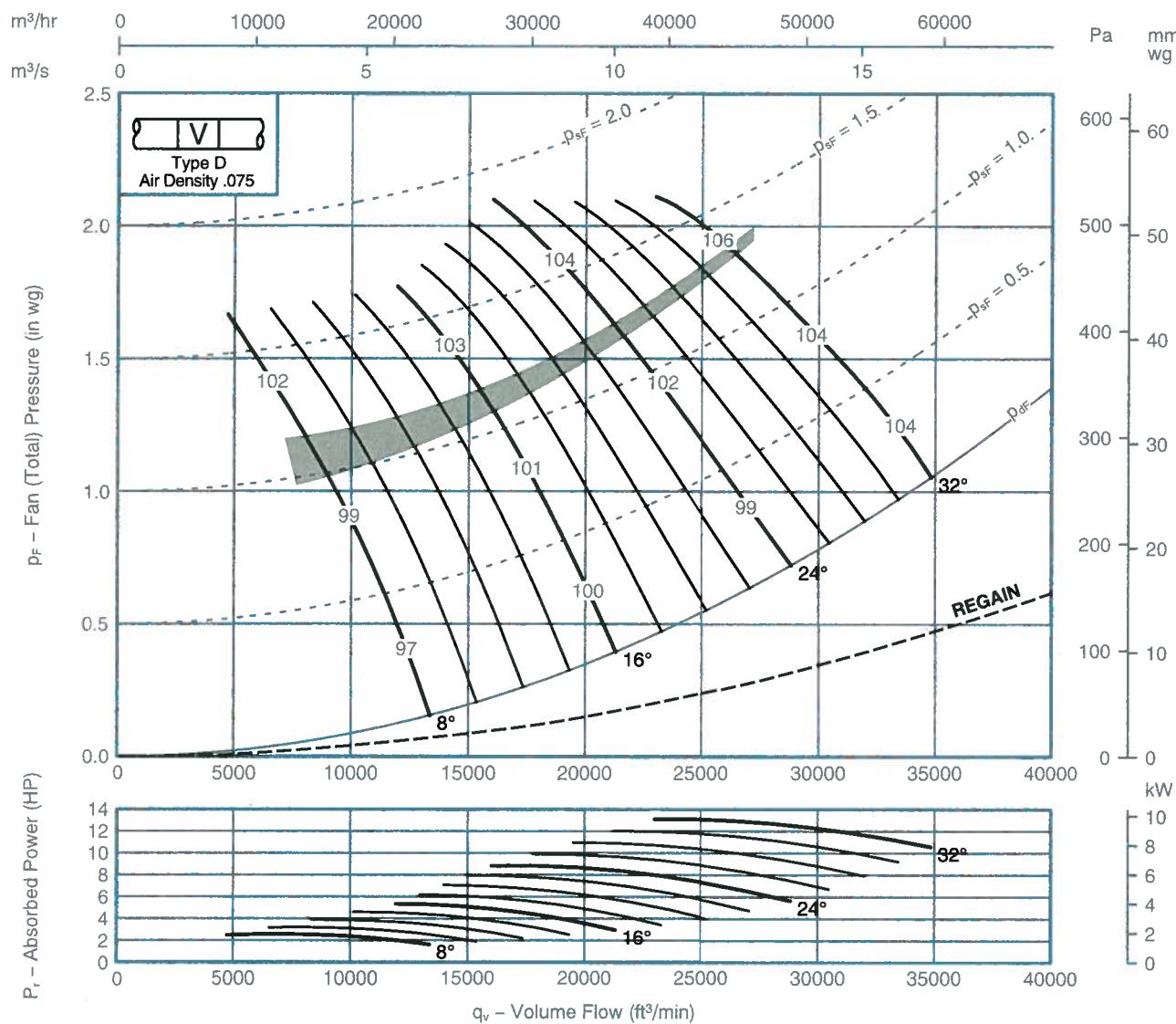
6 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-7	-8	-7	-6	-8	-15	-21	-30
	-6	-4	-9	-11	-10	-13	-18	-26
16°	-3	-7	-9	-10	-13	-17	-20	-28
	-3	-6	-8	-12	-14	-16	-20	-28
24-32°	-3	-7	-9	-13	-13	-15	-19	-24
	-4	-7	-7	-11	-12	-15	-21	-24

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
8°	-6	-6	-7	-6	-7	-7	-15	-22	-29
	-5	-5	-1	-9	-11	-10	-13	-18	-25
16°	-1	-5	-8	-10	-13	-16	-20	-27	-27
	-1	-4	-8	-12	-13	-16	-21	-27	-27
24-32°	-1	-6	-8	-13	-13	-14	-19	-23	-23
	-1	-6	-7	-11	-12	-15	-21	-23	-23

SK11499

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0



JM AEROFOIL

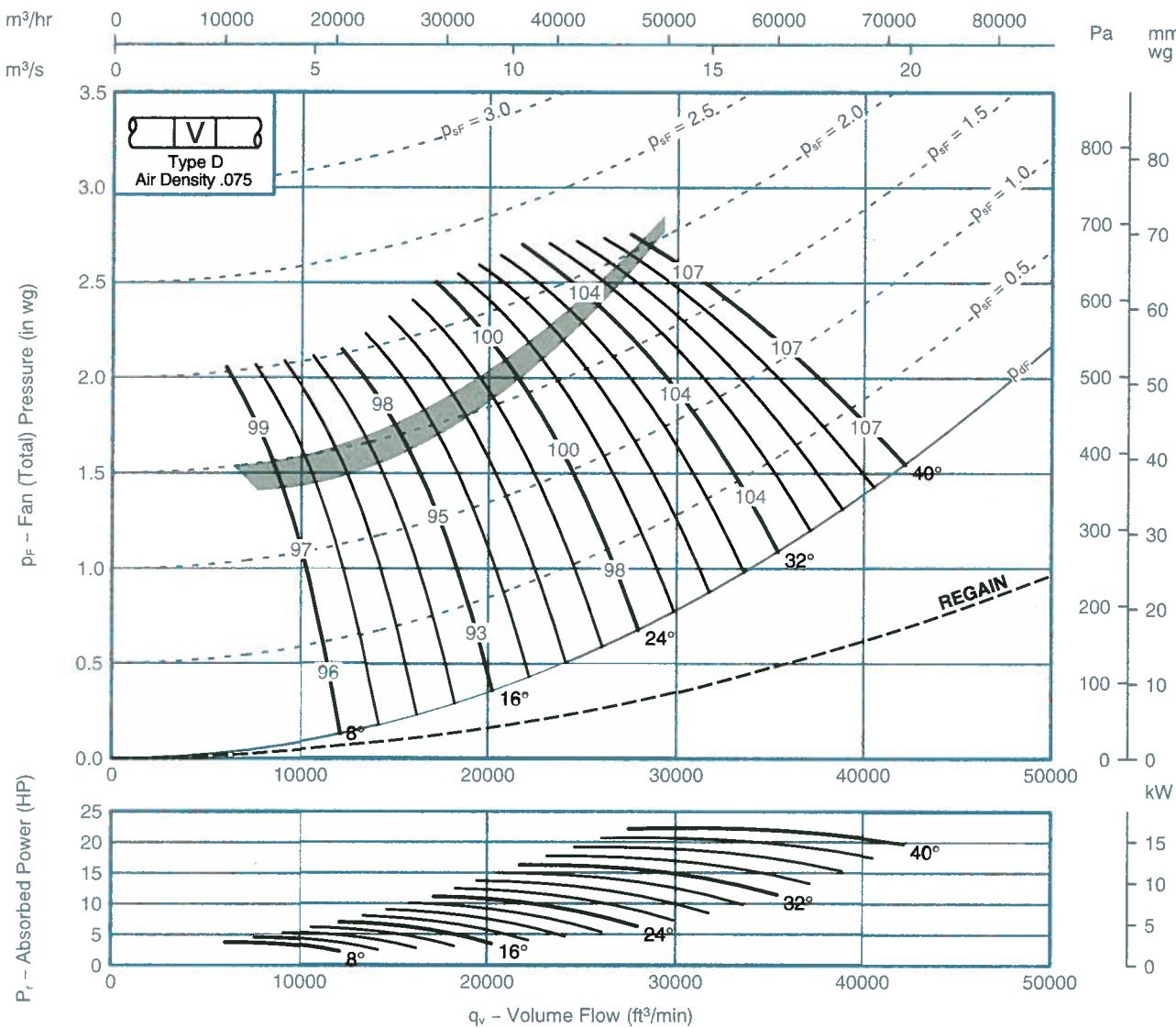
Fan Code: 100JM/40/6/9/...
1000 mm 1170 RPM
9 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
PH: (513) 874-2400 FAX: (513) 870-6249

Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-9	-9	-5	-5	-9	-16	-20	-29
	-11	-7	-8	-8	-6	-10	-15	-26
16°	-8	-11	-7	-5	-9	-12	-17	-25
	-7	-5	-7	-8	-10	-10	-14	-24
24-40°	-5	-8	-7	-7	-14	-15	-16	-21
	-6	-6	-7	-7	-14	-17	-17	-25

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-7	-6	-5	-5	-9	-16	-19	-28
	-7	-4	-7	-7	-7	-10	-14	-24
16°	-4	-8	-6	-5	-10	-12	-16	-25
	-3	-4	-6	-7	-11	-11	-13	-22
24-40°	-2	-5	-6	-6	-13	-15	-15	-20
	-2	-3	-5	-6	-14	-16	-17	-24

SK11500

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 100JM/50/6/12/...

1000 mm 1170 RPM

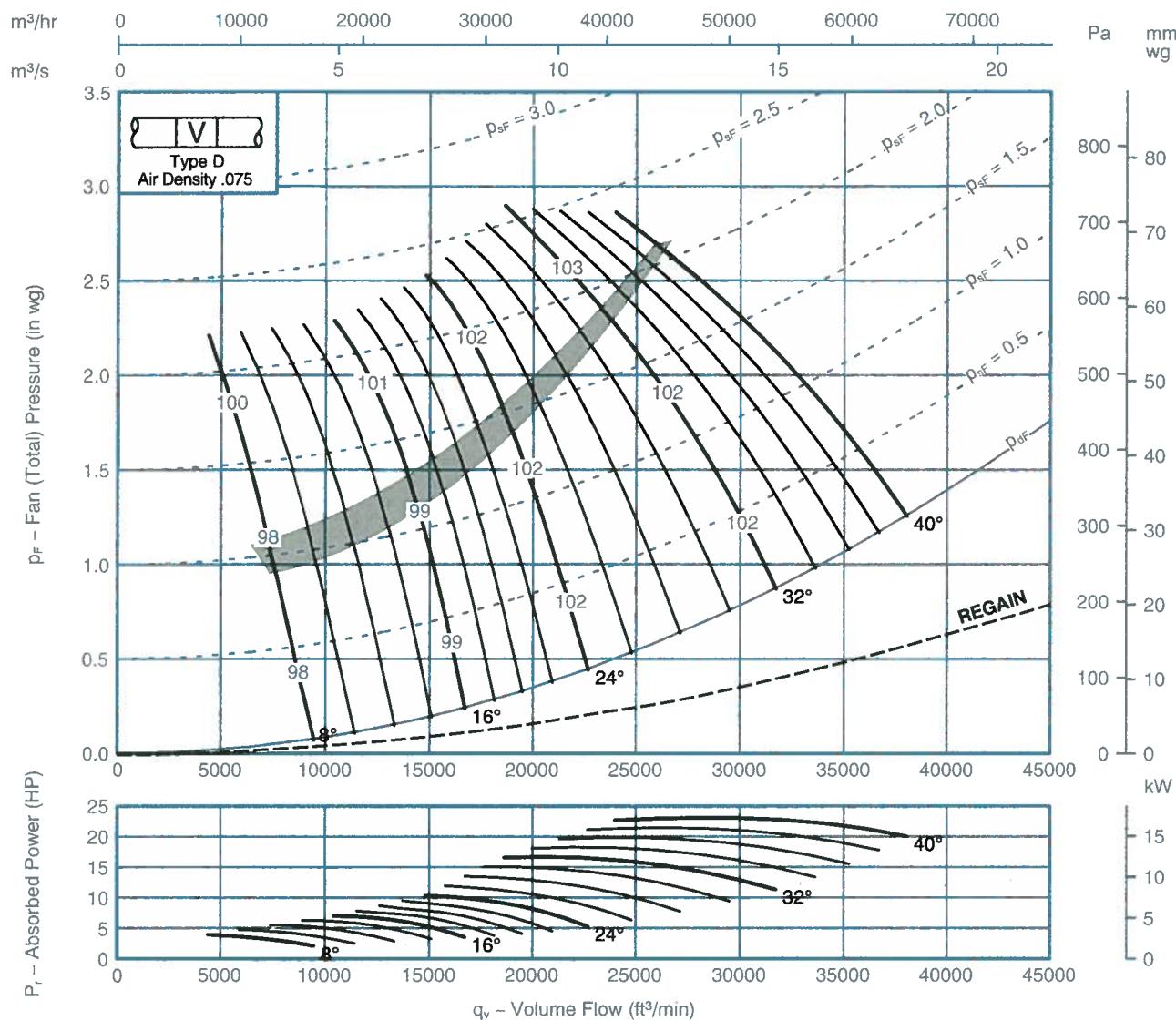
12 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
PH: (513) 874-2400 FAX: (513) 870-6249

Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-14	-5	-6	-6	-11	-17	-24
	-17	-14	-5	-6	-6	-11	-16	-21
16°	-12	-13	-5	-7	-7	-11	-17	-24
	-11	-13	-3	-9	-8	-12	-16	-21
24-40°	-8	-9	-5	-8	-9	-13	-15	-20
	-8	-9	-4	-9	-9	-13	-15	-20

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-12	-3	-7	-6	-9	-15	-21
	-13	-12	-3	-8	-6	-9	-13	-19
16°	-10	-11	-3	-7	-6	-10	-14	-21
	-9	-11	0	-8	-8	-10	-13	-19
24-40°	-5	-7	-4	-8	-9	-11	-13	-18
	-6	-7	-3	-9	-9	-11	-13	-18

SK11501

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 100JM/40/4/9/...

1000 mm 1770 RPM

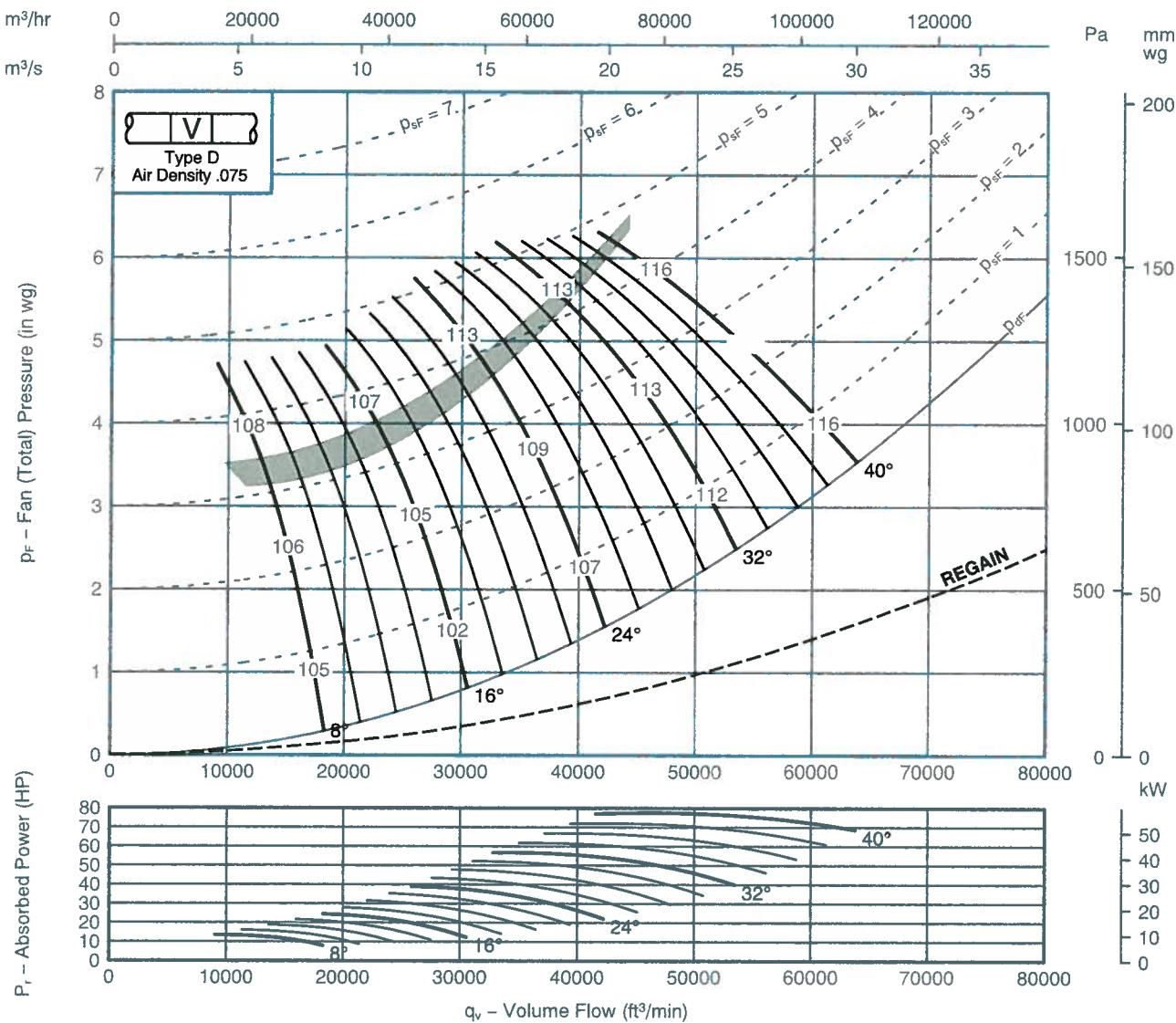
9 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
PH: (513) 874-2400 FAX: (513) 870-6249

Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-10	-8	-5	-7	-11	-18	-24
	-12	-11	-6	-7	-7	-7	-12	-19
16°	-10	-9	-9	-6	-7	-10	-14	-20
	-9	-8	-6	-7	-10	-10	-11	-18
24-40°	-6	-7	-9	-8	-14	-14	-16	-18
	-7	-7	-7	-6	-14	-16	-17	-20

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-9	-7	-6	-4	-8	-11	-17	-22
	-8	-8	-4	-7	-8	-7	-11	-18
16°	-6	-6	-8	-6	-8	-10	-13	-19
	-4	-5	-4	-7	-11	-10	-10	-17
24-40°	-3	-3	-7	-5	-13	-14	-16	-17
	-4	-3	-5	-5	-13	-15	-17	-19

SK11503

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 100JM/50/4/12/...

1000 mm 1770 RPM

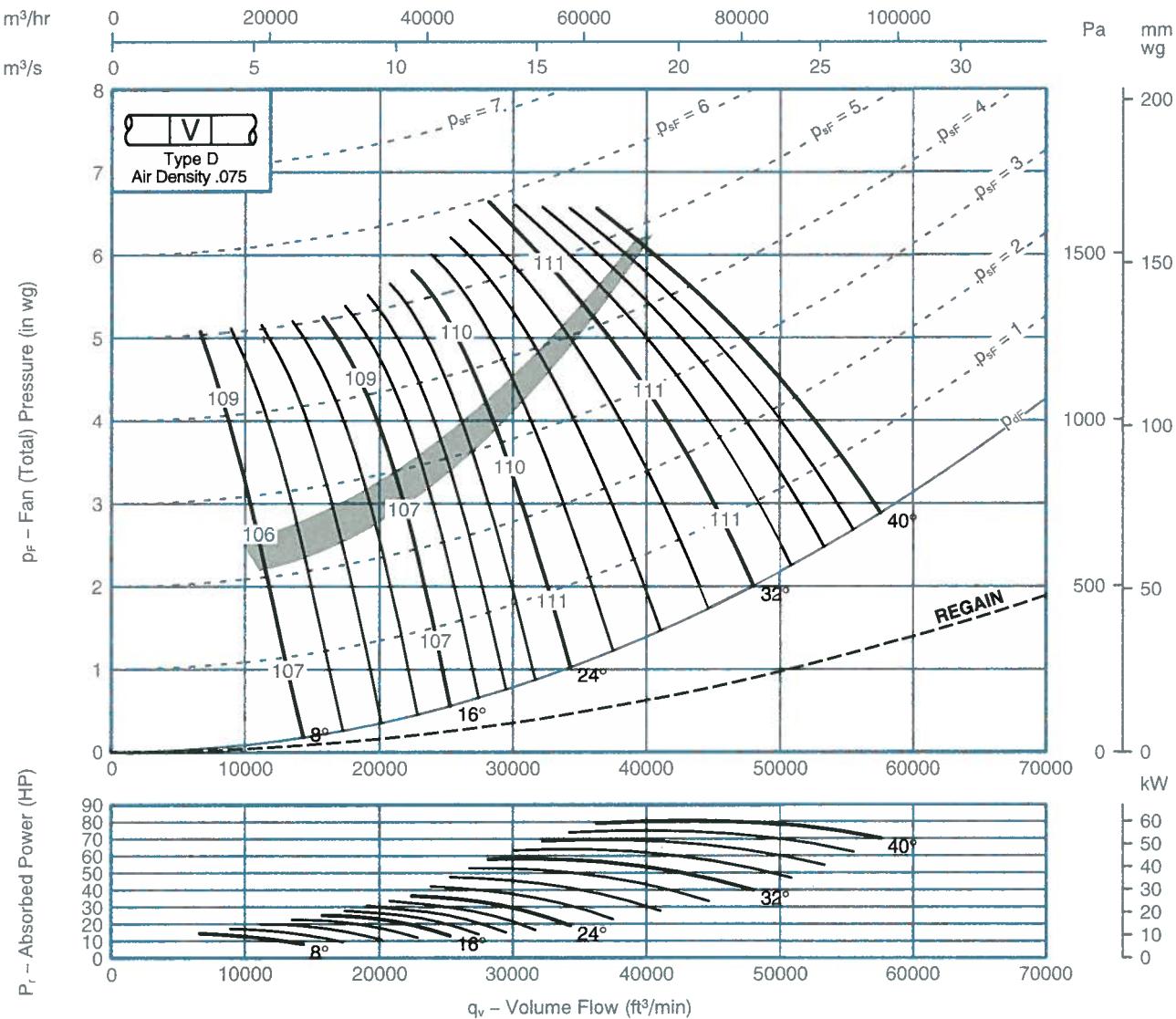
12 Blades 60 Hz



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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-18-	-6	-8	-5	-9	-16	-21
	-17	-17	-5	-8	-5	-9	-14	-19
16°	-12	-15	-5	-7	-6	-9	-15	-21
	-11	-14	-3	-9	-8	-10	-14	-19
24-40°	-8	-9	-5	-9	-9	-11	-15	-18
	-8	-10	-4	-9	-9	-11	-15	-18

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-16	-4	-8	-4	-6	-13	-18
	-14	-15	-3	-7	-6	-7	-12	-17
16°	-10	-13	-3	-7	-6	-7	-12	-18
	-9	-12	-1	-9	-8	-9	-11	-16
24-40°	-6	-7	-4	-8	-9	-9	-12	-16
	-6	-7	-3	-9	-9	-9	-12	-16

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0

SK11504



JM AEROFOIL

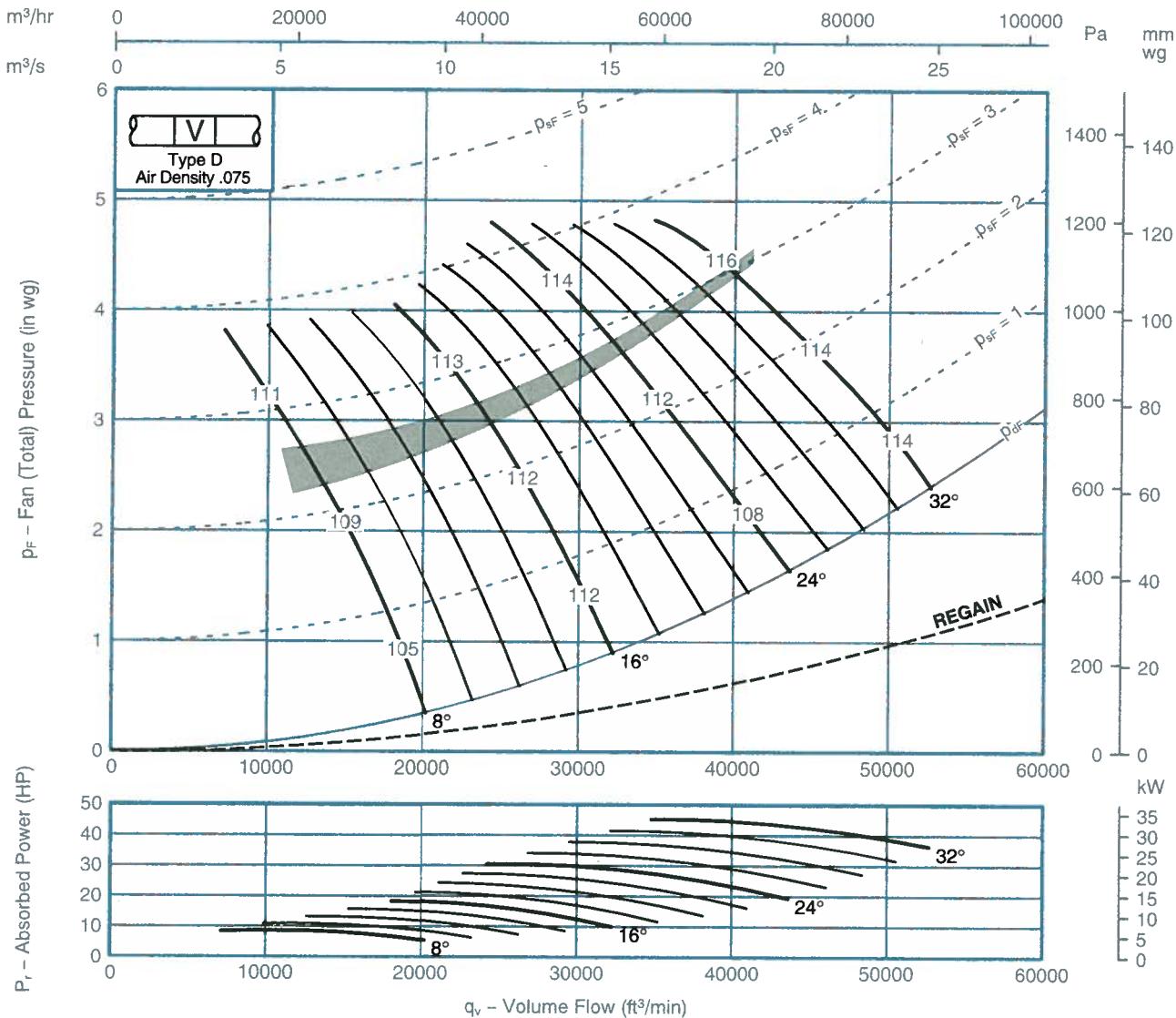
Fan Code: 100JM/40/4/6/...
 1000 mm 1770 RPM
 6 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-7	-13	-6	-6	-10	-19	-24
	-7	-4	-11	-9	-10	-12	-15	-20
16°	-4	-5	-13	-9	-12	-15	-19	-23
	-5	-4	-11	-10	-14	-15	-18	-23
24-32°	-4	-5	-12	-10	-15	-14	-17	-21
	-5	-5	-10	-9	-13	-13	-18	-23

Pitch Angle	Outlet Levels							
	63	125	250	500	1k	2k	4k	8k
8°	-7	-5	-13	-6	-6	-10	-19	-23
	-7	-1	-10	-10	-10	-12	-15	-19
16°	-2	-3	-13	-9	-12	-15	-19	-22
	-3	-3	-11	-10	-14	-15	-19	-22
24-32°	-2	-3	-11	-10	-15	-14	-17	-20
	-3	-4	-10	-9	-13	-13	-18	-22

SK11502

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0



JM AEROFOIL

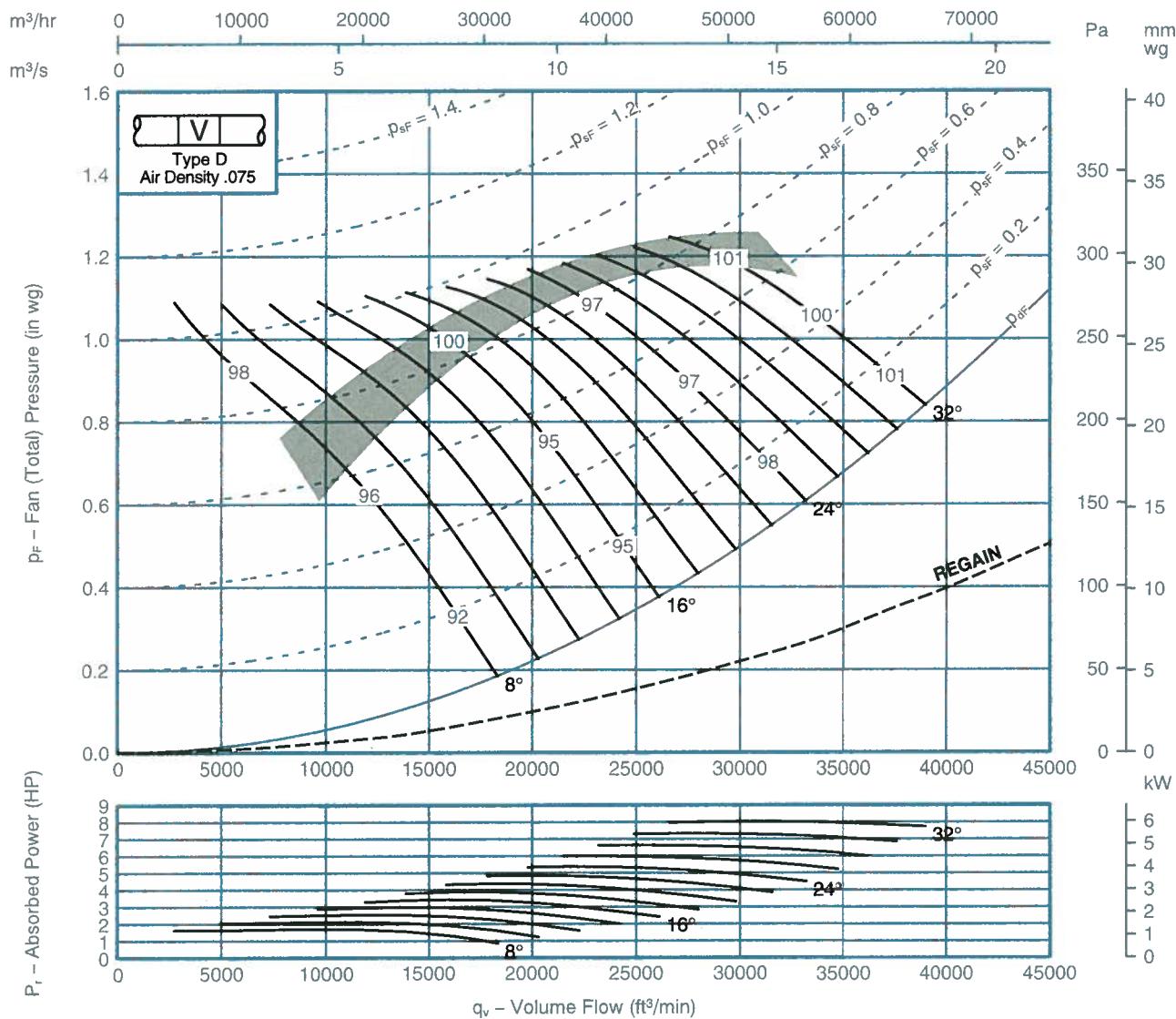
Fan Code: 112JM/31/8/6/...
1120 mm 875 RPM
6 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-12	-6	-4	-7	-14	-19	-26
	-10	-11	-10	-6	-5	-9	-15	-21
16°	-14	-13	-7	-3	-7	-14	-19	-26
	-7	-9	-8	-6	-8	-11	-16	-21
24-32°	-7	-8	-7	-7	-9	-12	-16	-21
	-5	-8	-8	-9	-9	-13	-16	-20

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-12	-6	-5	-5	-8	-13	-19
	-10	-11	-10	-7	-6	-8	-15	-20
16°	-13	-13	-7	-8	-7	-8	-14	-18
	-6	-9	-8	-7	-7	-8	-11	-20
24-32°	-6	-8	-7	-8	-8	-10	-12	-16
	-4	-8	-8	-10	-10	-13	-15	-18

SK10716

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-4	-2	0	0	0	0	0	0



JM AEROFOIL

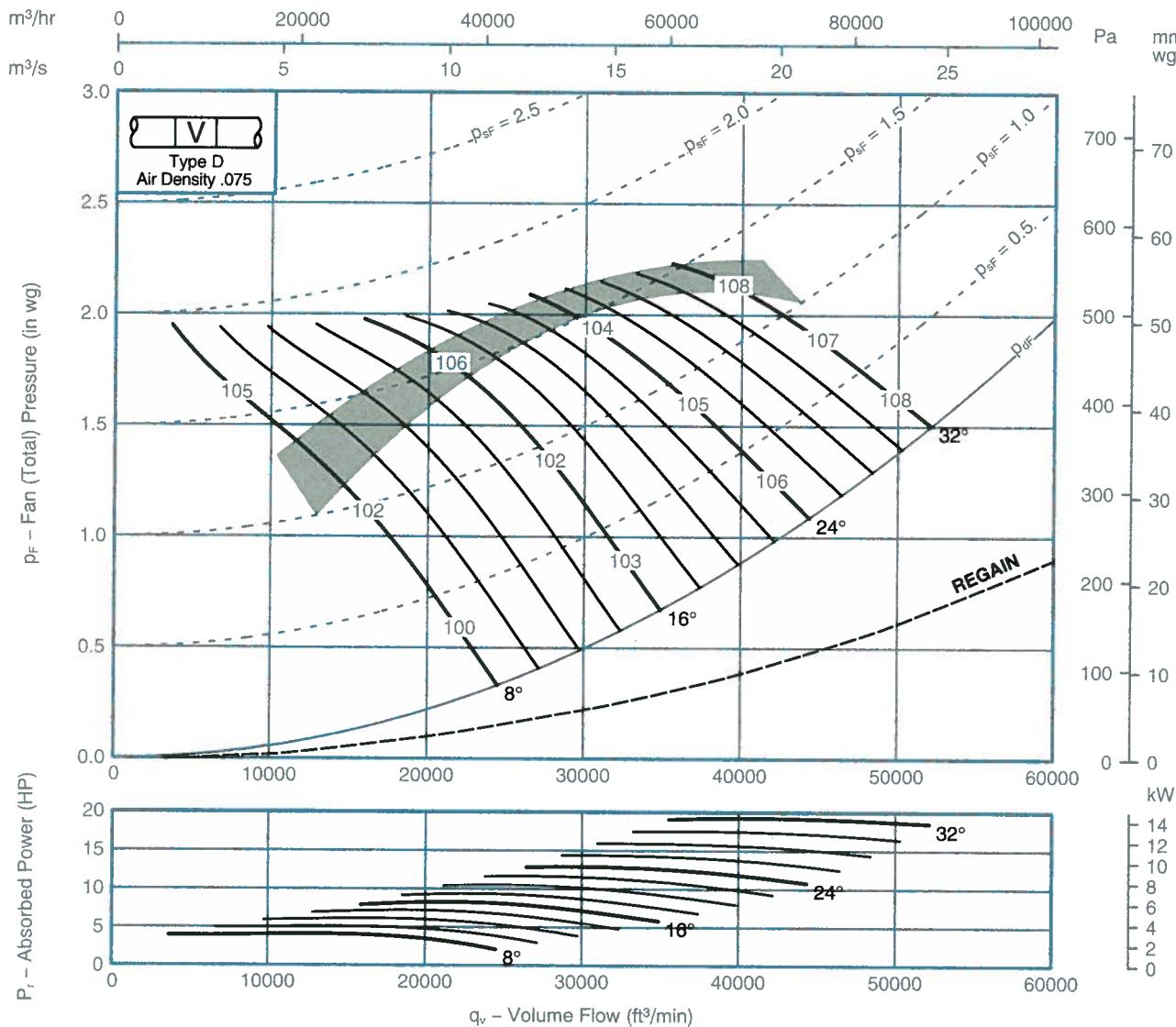
Fan Code: 112JM/31/6/6/
1120 mm 1170 RPM
6 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
PH: (513) 874-2400 FAX: (513) 870-6249

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-15	-8	-5	-5	-11	-17	-23
	-7	-12	-10	-9	-5	-8	-13	-19
16°	-11	-15	-10	-5	-5	-11	-17	-23
	-5	-10	-9	-9	-8	-10	-15	-20
24-32°	-6	-9	-8	-8	-8	-11	-16	-19
	-4	-7	-9	-10	-10	-12	-16	-20

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12	-14	-8	-6	-6	-11	-16	-21
	-7	-12	-10	-10	-6	-7	-13	-18
16°	-9	-15	-10	-5	-5	-11	-17	-22
	-4	-10	-9	-10	-8	-10	-14	-19
24-32°	-5	-9	-8	-8	-8	-11	-15	-18
	-3	-7	-9	-11	-10	-12	-15	-18

SK10717

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-4	-2	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 112JM/40/8/6/...

1120 mm 875 RPM

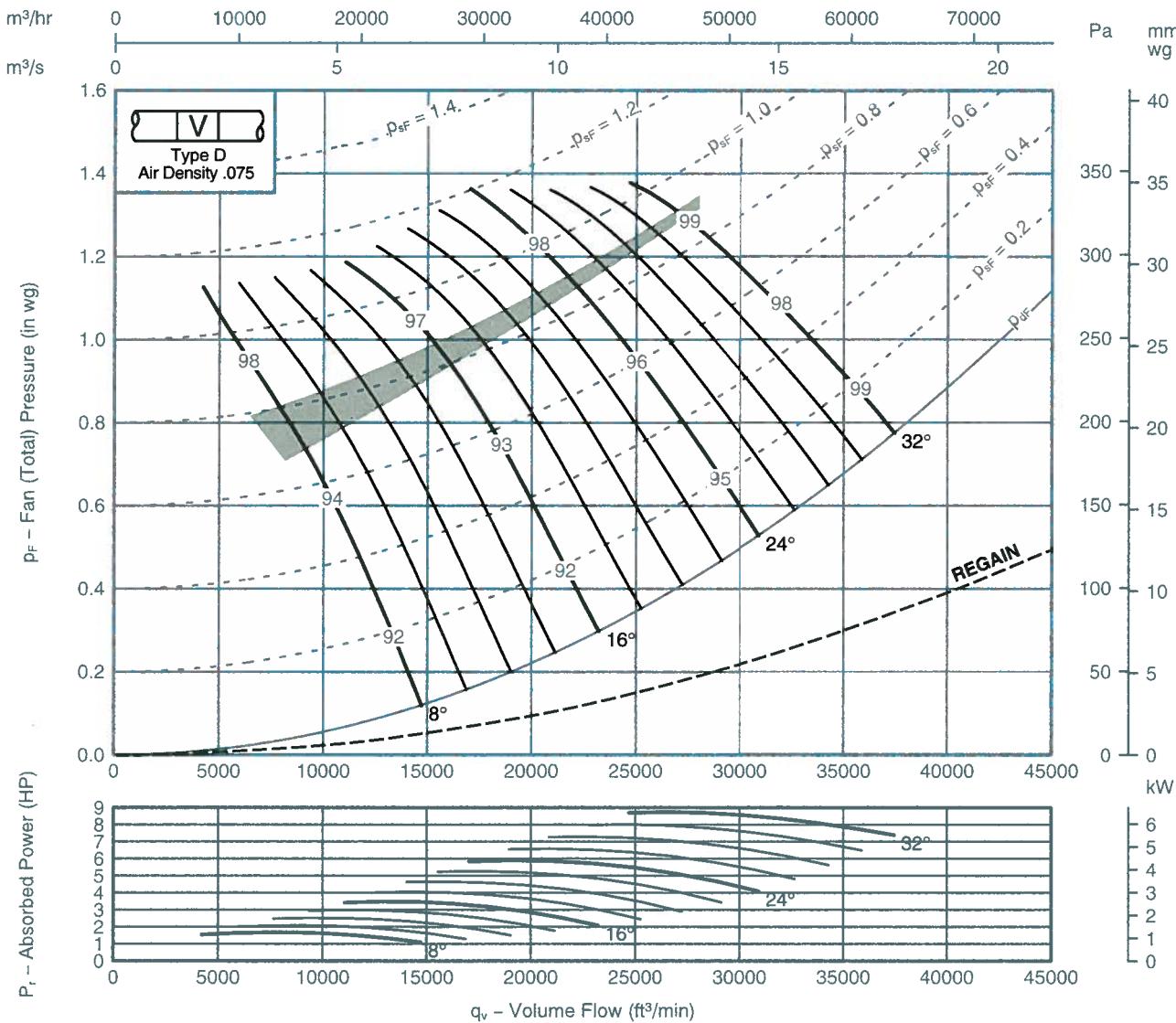
6 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
PH: (513) 874-2400 FAX: (513) 870-6249

Performance shown is for installation type D - Ducted inlet, Ducted outlet.

Performance ratings do not include the effects of appurtenances in the airstream.



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-10	-5	-6	-11	-19	-24	-31
	-8	-11	-9	-7	-9	-14	-19	-27
16°	-7	-11	-7	-7	-11	-16	-21	-28
	-4	-7	-8	-11	-12	-15	-19	-26
24-32°	-5	-8	-8	-9	-11	-15	-18	-22
	-5	-7	-7	-10	-11	-16	-19	-23

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-9	-4	-5	-11	-18	-24	-29
	-4	-9	-8	-5	-8	-13	-18	-25
16°	-4	-9	-7	-6	-9	-14	-20	-26
	-2	-6	-8	-10	-11	-14	-19	-25
24-32°	-2	-7	-8	-10	-11	-14	-17	-21
	-2	-6	-8	-10	-11	-15	-19	-21

SK11505

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-4	-2	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 112JM/40/8/9/...

1120 mm 875 RPM

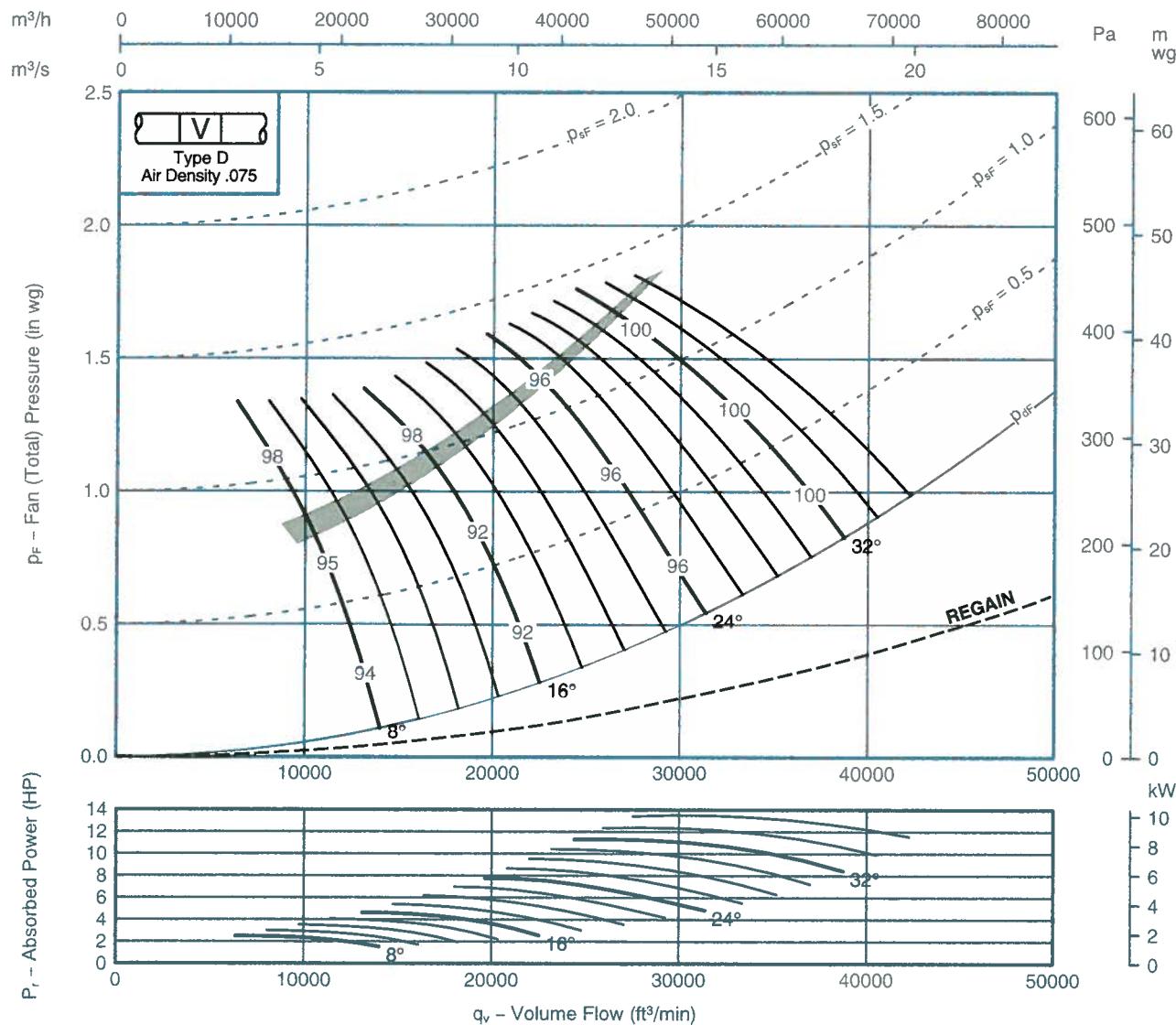
9 Blades 60 Hz



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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-9	-5	-5	-11	-18	-25	-32
	-16	-9	-9	-5	-7	-12	-19	-28
16°	-14	-9	-5	-5	-9	-15	-22	-29
	-12	-7	-8	-8	-8	-11	-17	-24
24-36°	-7	-7	-6	-10	-12	-14	-17	-23
	-7	-6	-6	-10	-12	-14	-17	-24

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12	-6	-4	-4	-11	-17	-23	-30
	-12	-6	-8	-4	-7	-12	-17	-25
16°	-10	-7	-4	-5	-10	-16	-21	-28
	-7	-4	-6	6	9	11	-15	-22
24-36°	-4	-4	-4	-8	-11	-13	-16	-22
	-3	-3	-4	-9	-11	-13	-16	-23

SK11506

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-4	-2	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 112JM/50/8/12/...

1120 mm 875 RPM

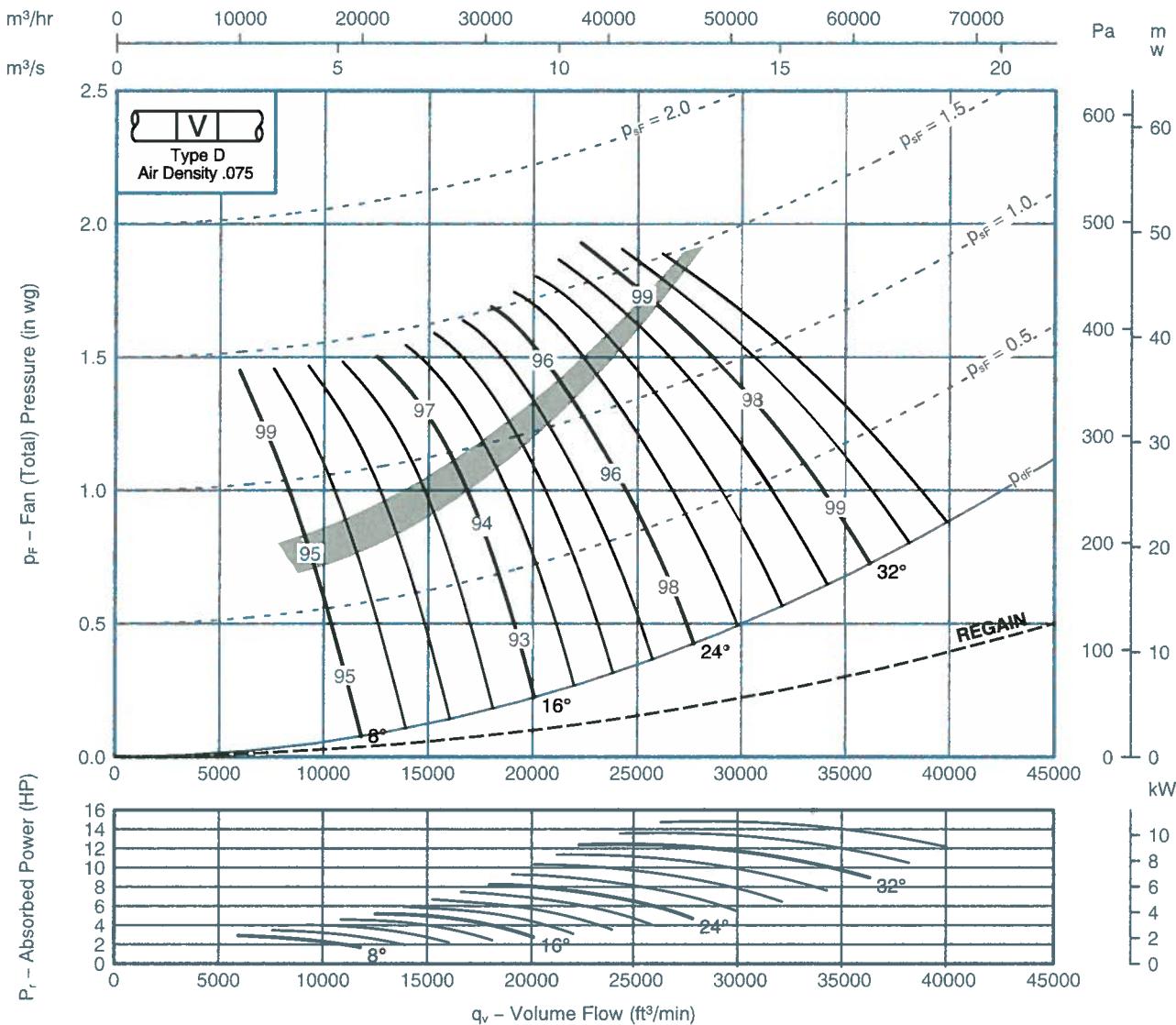
12 Blades 60 Hz



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PH: (513) 874-2400 FAX: (513) 870-6249

Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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The AMCA Certified Ratings Seal applies to air performance ratings only.

Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-18	-6	-8	-4	-8	-15	-20	-28
	-17	-6	-8	-5	-8	-13	-18	-25
16°	-14	-6	-8	-6	-8	-14	-20	-27
	-12	-4	-9	-8	-9	-13	-17	-25
24-36°	-8	-5	-8	-8	-10	-14	-17	-21
	-8	-4	-8	-8	-10	-14	-17	-23

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-4	-7	-6	-8	-12	-17	-25
	-14	-3	-7	-7	-8	-11	-15	-23
16°	-11	-3	-7	-6	-8	-12	-17	-24
	-9	0	-8	-7	-9	-11	-14	-22
24-36°	-6	-3	-7	-8	-10	-11	-14	-19
	-6	-2	-7	-8	-10	-12	-14	-20

SK11507

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-4	-2	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 112JM/40/6/6/...

1120 mm 1170 RPM

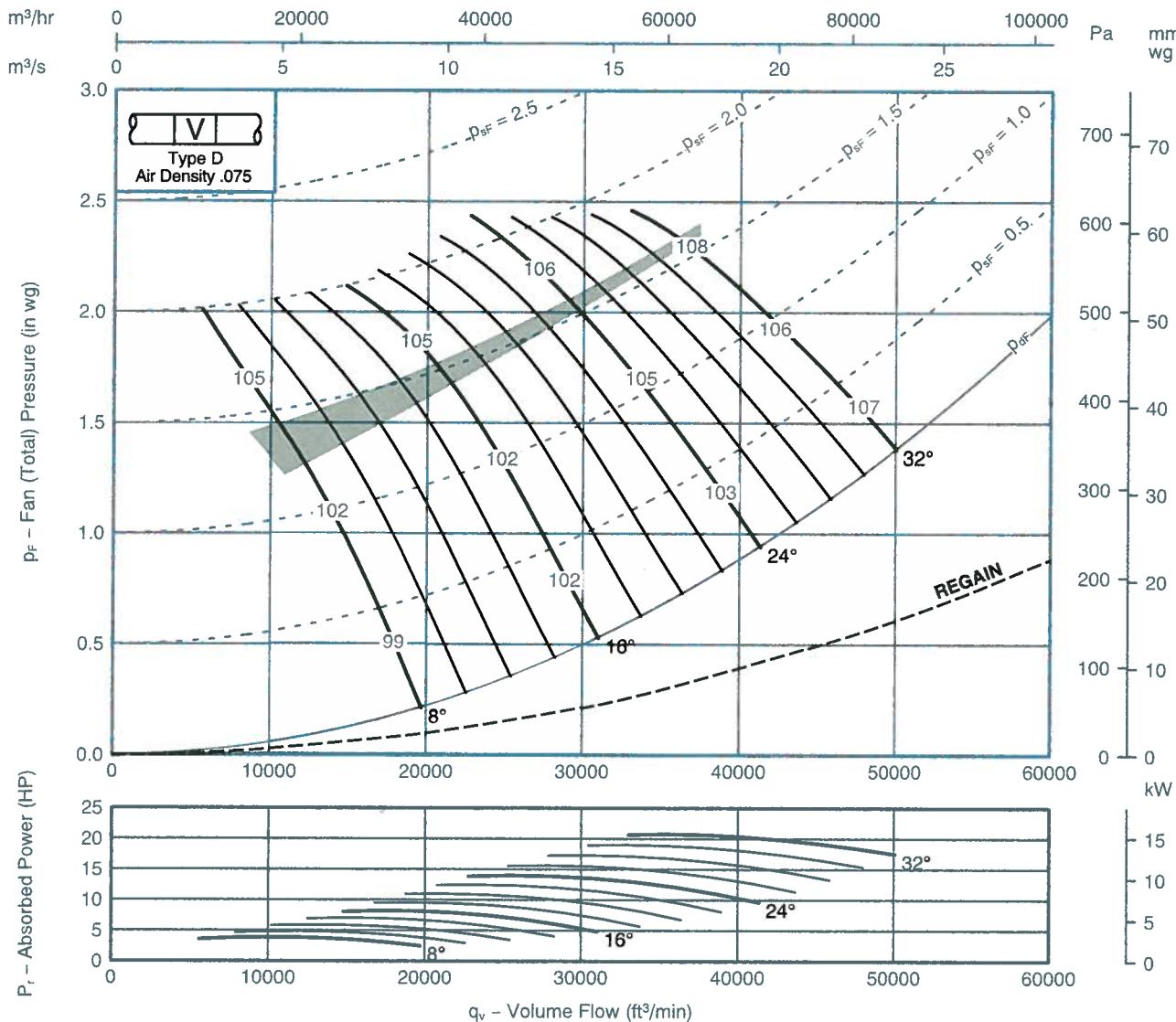
6 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11 -8	-11 -8	-6 -8	-4 -6	-8 -7	-16 -11	-21 -16	-28 -23
16°	-6 -5	-9 -6	-8 -7	-7 -10	-9 -11	-13 -14	-18 -17	-25 -24
24-32°	-5 -5	-8 -7	-7 -7	-9 -10	-10 -11	-14 -14	-17 -18	-21 -22

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10 -7	-8 -5	-5 -8	-4 -6	-8 -6	-15 -11	-22 -16	-27 -22
16°	-3 -2	-7 -5	-7 -6	-7 -10	-8 -11	-13 -14	-18 -18	-24 -23
24-32°	-2 -2	-6 -6	-6 -6	-9 -10	-10 -11	-13 -14	-17 -18	-20 -21

SK11508

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-4	-2	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 112JM/40/6/9/...

1120 mm 1170 RPM

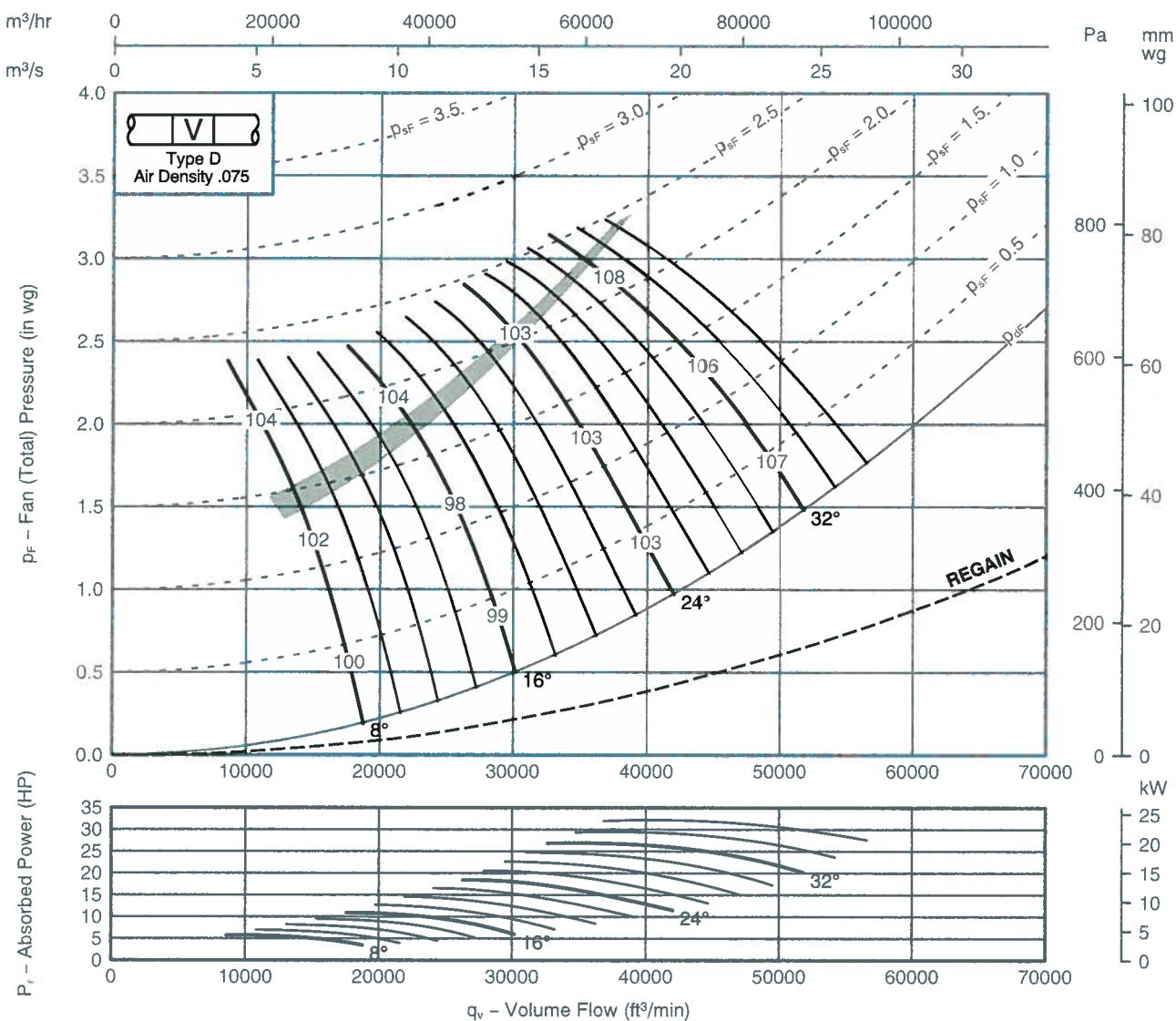
9 Blades 60 Hz



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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-11	-5	-4	-7	-15	-21	-25
	-15	-10	-9	-6	-5	-10	-15	-23
16°	-15	-12	-7	-4	-7	-12	-19	-26
	-12	-7	-8	-7	-8	-9	-14	-21
24-36°	-7	-7	-7	-7	-10	-14	-15	-21
	-7	-6	-7	-8	-11	-14	-15	-22

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-8	-5	-4	-8	-15	-20	-27
	-11	-6	-8	-6	-5	-10	-14	-22
16°	-11	-10	-6	-4	-8	-13	-18	-26
	-7	-10	-6	-4	-8	-10	-12	-20
24-36°	-4	-4	-6	-6	-10	-13	-14	-20
	-4	-3	-5	-7	-10	-13	-14	-21

SK11509

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-4	-2	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 112JM/50/6/12/...

1120 mm 1170 RPM

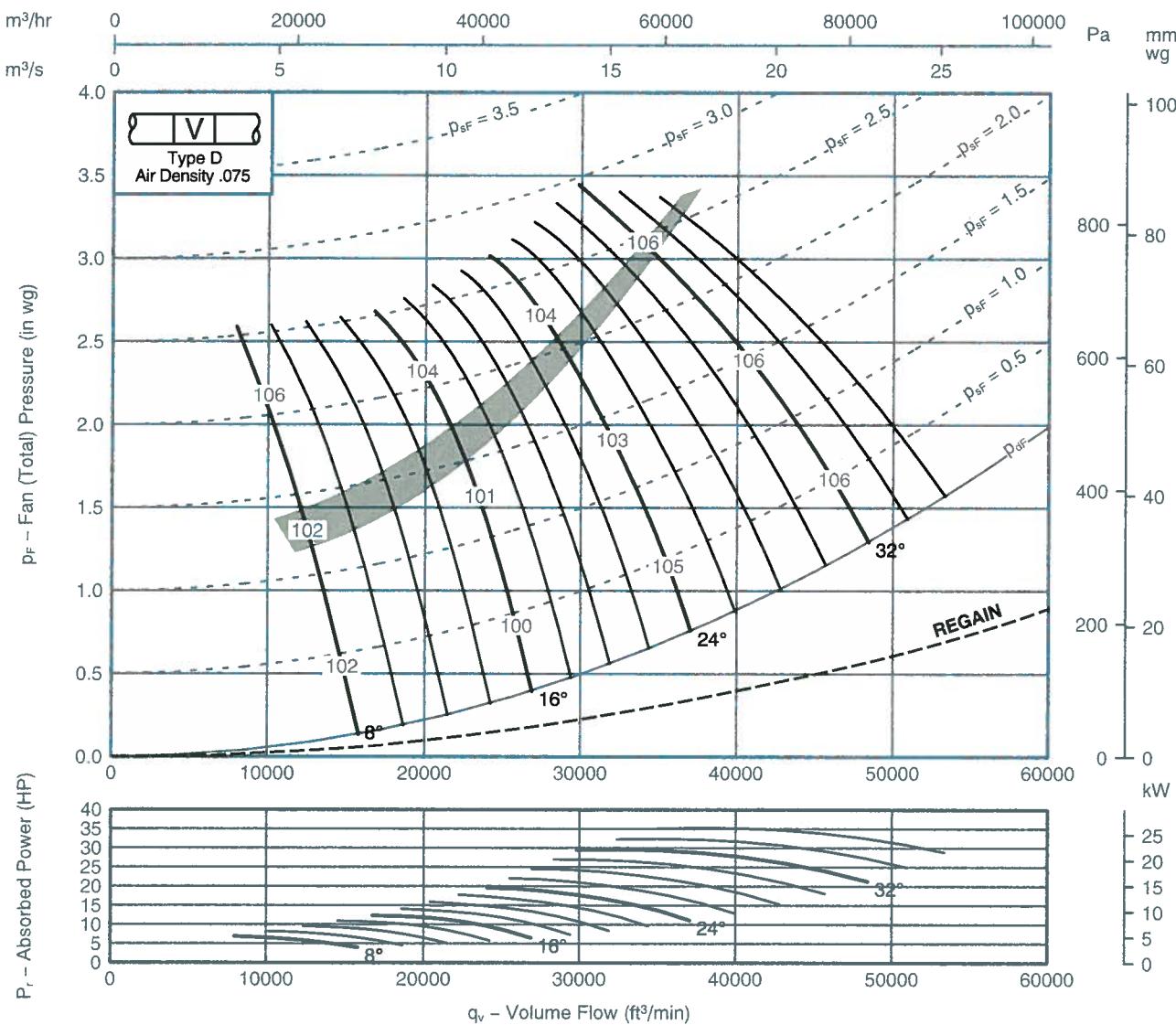
12 Blades 60 Hz



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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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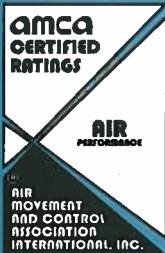
Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-14	-5	-6	-6	-11	-17	-24
	-17	-14	-5	-6	-6	-11	-16	-21
16°	-12	-13	-5	-7	-7	-11	-17	-24
	-11	-13	-3	-9	-8	-12	-16	-21
24-36°	-8	-9	-5	-8	-9	-13	-15	-20
	-8	-9	-4	-9	-9	-13	-16	-21

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-12	-3	-7	-6	-9	-15	-21
	-13	-12	-3	-8	-6	-9	-13	-19
16°	-10	-11	-3	-7	-6	-10	-14	-21
	-9	-11	0	-8	-8	-10	-13	-19
24-36°	-5	-7	-4	-8	-9	-11	-13	-18
	-6	-7	-3	-9	-9	-11	-13	-18

SK11510

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-4	-2	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 112JM/40/4/6/...

1120 mm 1770 RPM

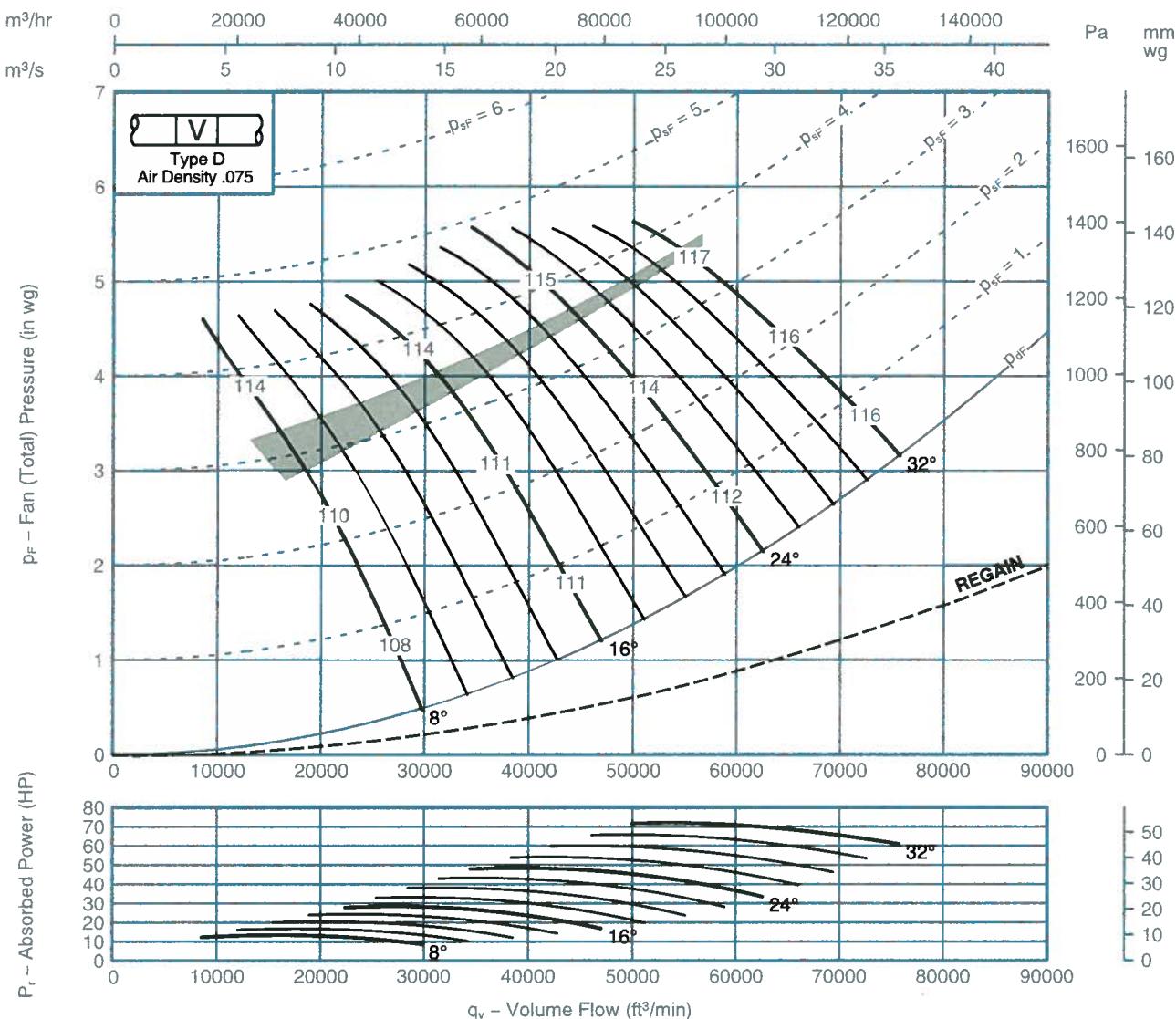
6 Blades 60 Hz



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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12	-10	-10	-4	-6	-11	-19	-24
	-9	-7	-11	-8	-6	-8	-13	-18
16°	-7	-7	-11	-7	-7	-11	-15	-20
	-5	-5	-9	-9	-12	-12	-16	-19
24-32°	-6	-6	-10	--8	-9	-12	-15	-19
	-6	-6	-8	-8	-11	-12	-17	-20

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-8	-9	-4	-5	-11	-19	-23
	-8	-5	-10	-8	-6	-8	-14	-17
16°	-5	-5	-11	-7	-7	-10	-16	-18
	-4	-4	-9	-9	-11	-12	-16	-18
24-32°	-4	-4	-9	-8	-8	-11	-12	-16
	-4	-4	-8	-8	-11	-12	-15	-19

SK11511

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-4	-2	0	0	0	0	0	0



JM AEROFOIL

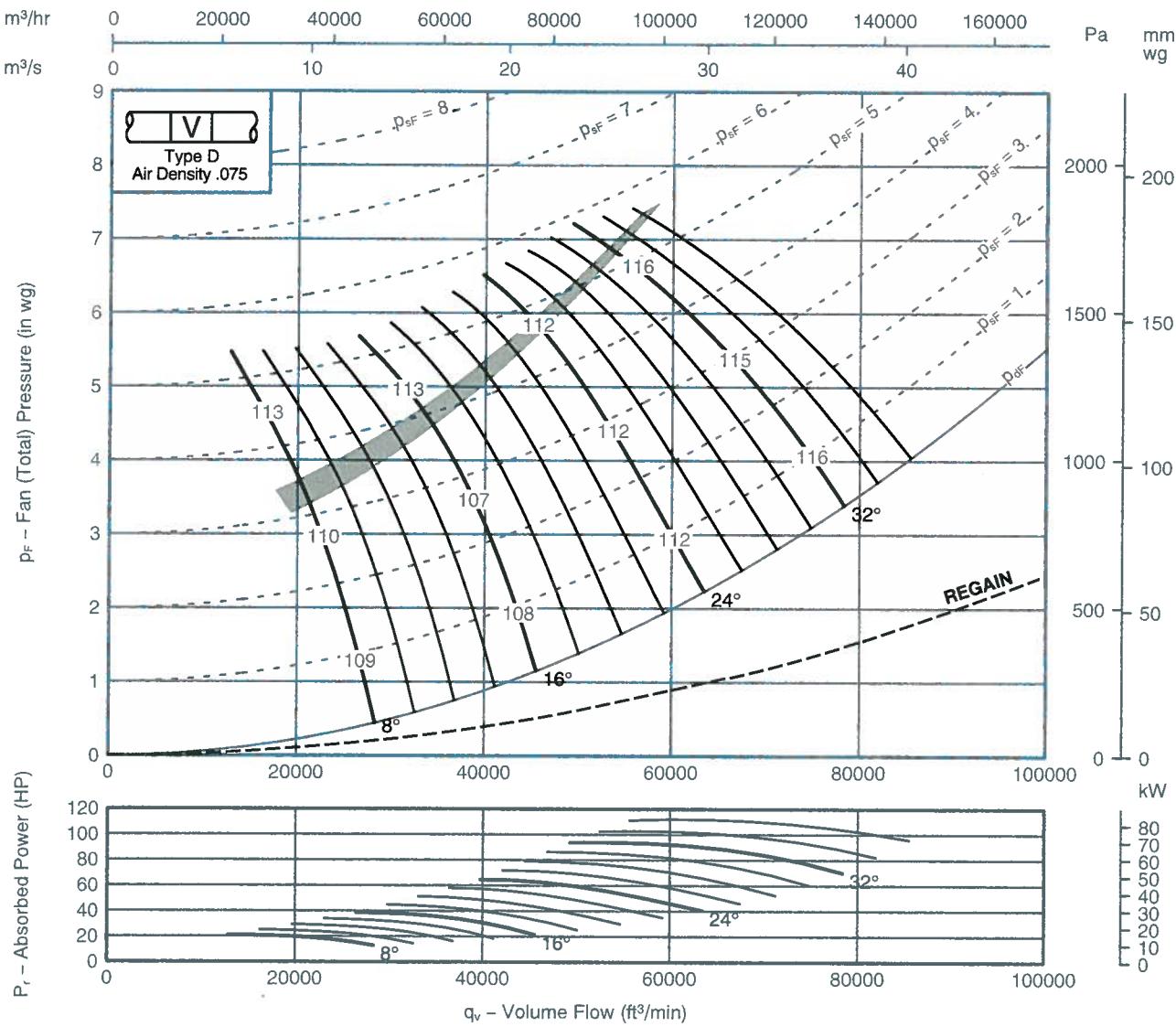
Fan Code: 112JM/40/4/9/
1120 mm 1770 RPM
9 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-14	-9	-4	-5	-10	-17	-24
	-16	-16	-8	-8	-5	-6	-12	-18
16°	-16	-14	-9	-5	-5	-9	-15	-22
	-13	-12	-6	-7	-7	-8	-10	-16
24-36°	-8	-8	-7	-6	-10	-12	-14	-17
	-8	-7	-6	-6	-11	-13	-15	-17

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-12	-7	-4	-5	-10	-16	-22
	-13	-13	-6	-8	-5	-7	-11	-16
16°	-12	-11	-8	-6	-6	-10	-14	-21
	-9	-9	-4	-7	-8	-9	-9	-15
24-36°	-5	-4	-6	-5	-10	-11	-14	-16
	-5	-4	-4	-5	-10	-12	-14	-16

SK11512

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-4	-2	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 112JM/50/4/12/...

1120 mm 1770 RPM

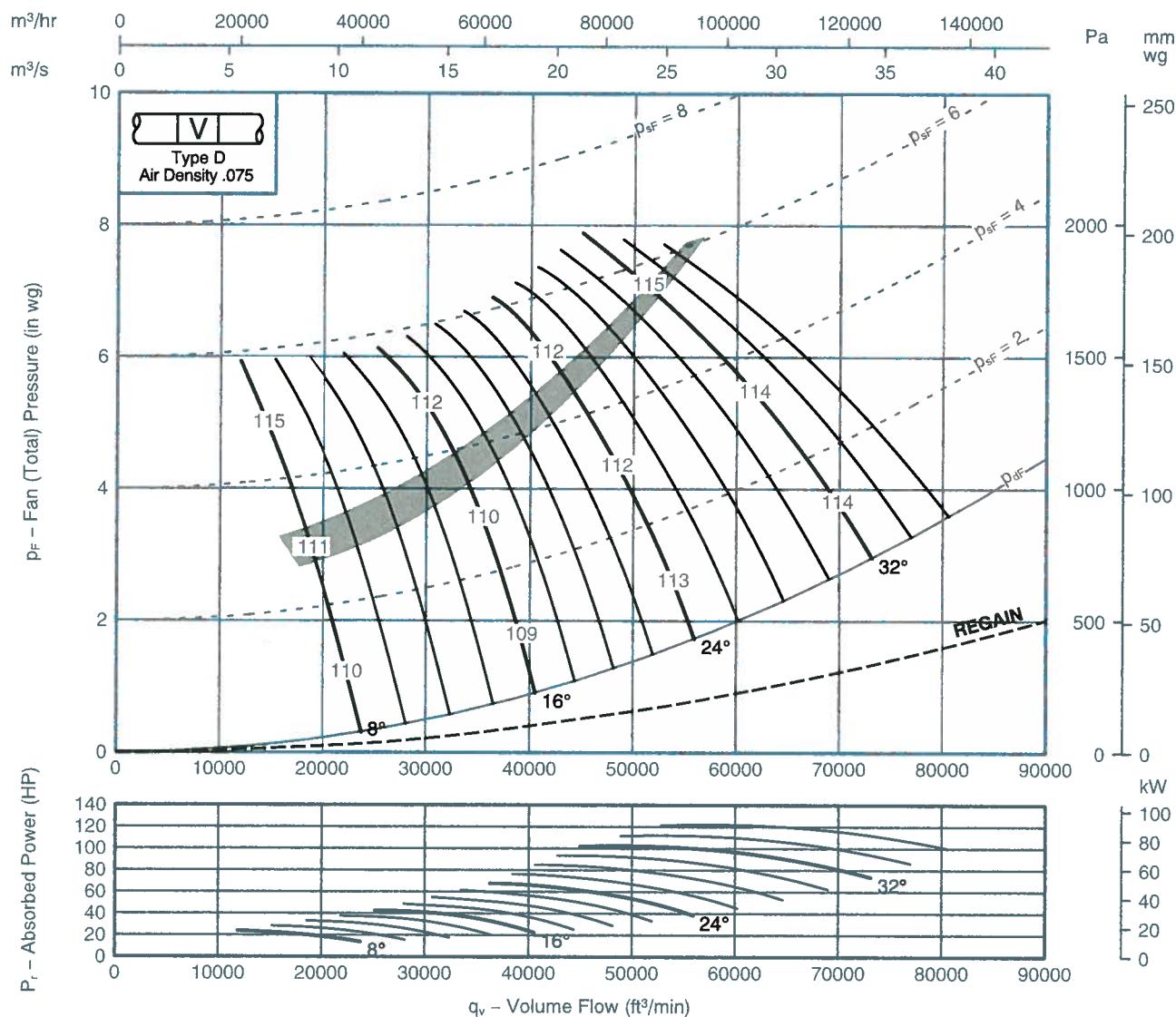
12 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-18	-6	-8	-5	-9	-16	-21
	-17	-17	-5	-8	-5	-9	-14	-19
16°	-12	-15	-5	-7	-6	-9	-15	-21
	-11	-14	-3	-9	-8	-10	-14	-19
24-36°	-8	-9	-5	-9	-9	-11	-15	-18
	-8	-10	-4	-9	-9	-11	-15	-18

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-16	-4	-8	-4	-6	-13	-18
	-14	-15	-3	-8	-5	-7	-12	-17
16°	-10	-13	-3	-7	-6	-7	-12	-18
	-9	-12	-1	-9	-8	-9	-11	-16
24-36°	-6	-7	-4	-8	-9	-9	-12	-16
	-6	-7	-3	-9	-9	-9	-12	-16

SK11513

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-4	-2	0	0	0	0	0	0



JM AEROFOIL

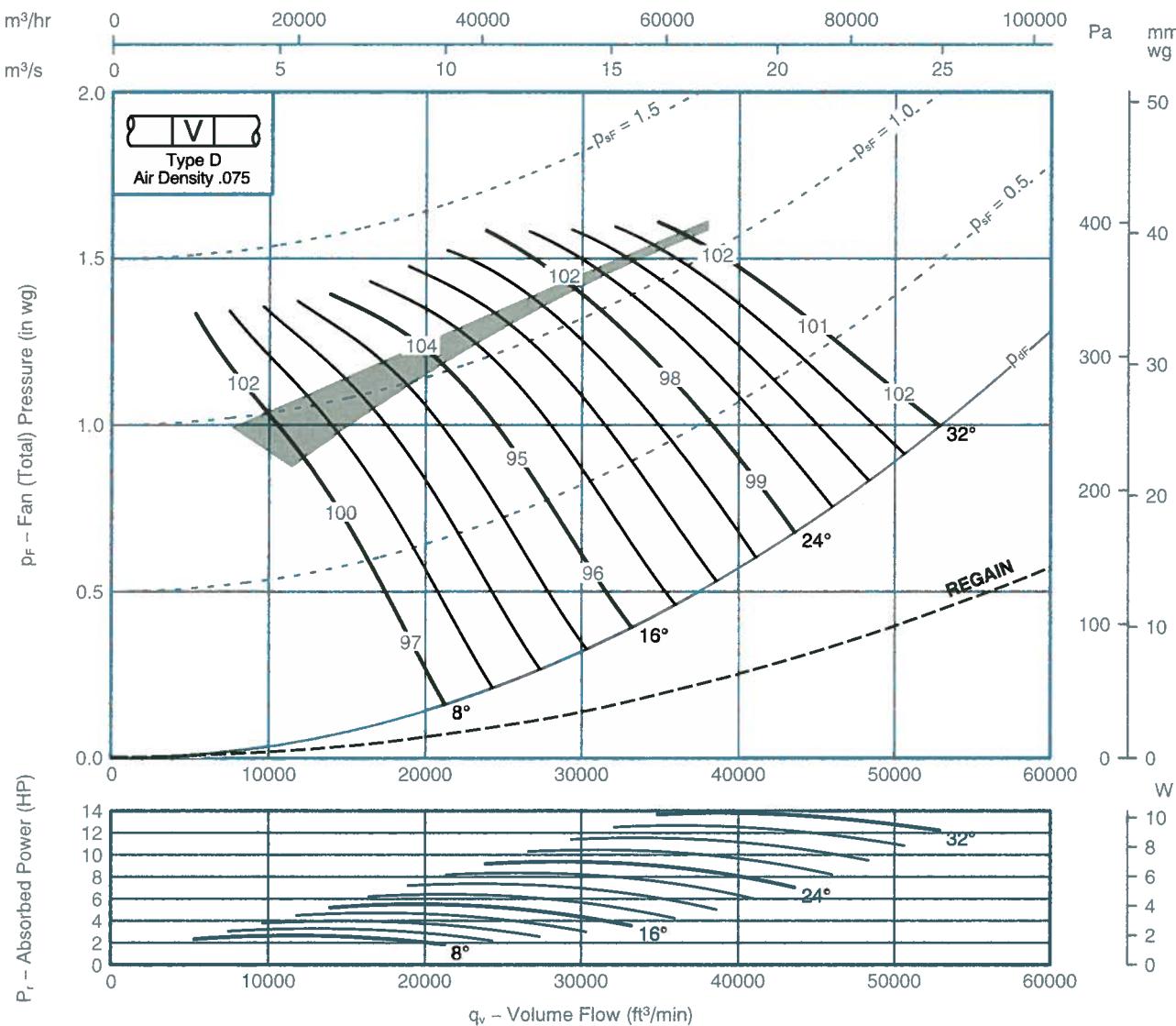
Fan Code: 125JM/40/8/6/...
1250 mm 875 RPM
6 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-7	-4	-6	-13	-20	-25	-30
	-13	-12	-7	-4	-7	-14	-18	-26
16°	-11	-11	-7	-4	-8	-14	-20	-26
	-6	-6	-8	9	-10	-13	-15	-23
24-32°	-8	-8	-7	-5	-11	-15	-18	-21
	-6	-6	-8	-9	-11	-15	-17	-20

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12	-6	-4	-6	-12	-20	-25	-28
	-11	-11	-7	-4	-7	-14	-18	-25
16°	-8	-9	-7	-4	-8	-13	-20	-24
	-4	-5	-8	-9	-9	-13	-16	-22
24-32°	-6	-7	-8	-5	-11	-14	-18	-20
	-3	-5	-8	-9	-11	-14	-17	-19

SK11514

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-4	-1	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 125JM/40/8/9/...

1250 mm 875 RPM

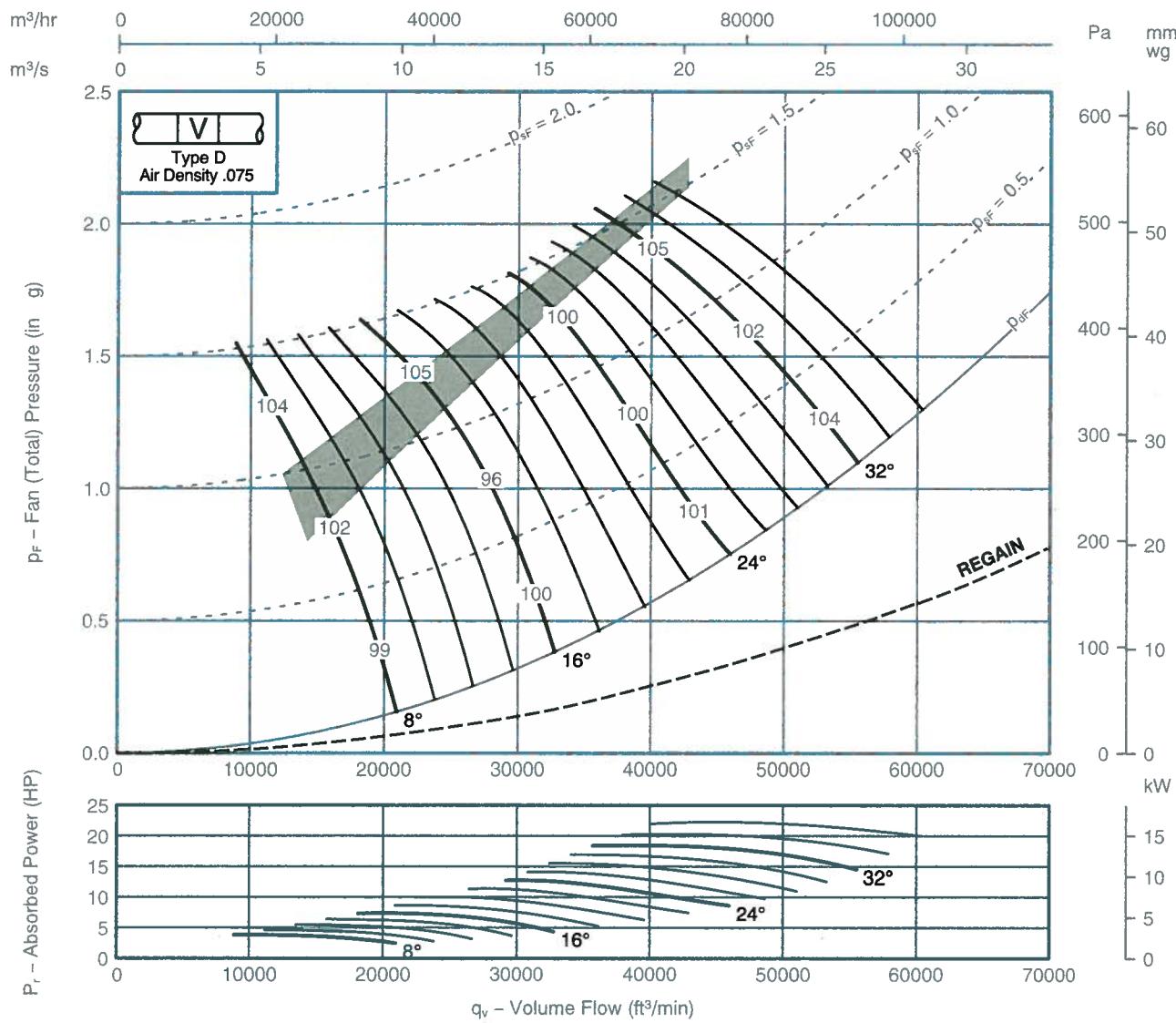
9 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-20	-11	-6	-3	-10	-18	-26	-32
	-22	-12	-10	-3	-7	-13	-18	-27
16°	-20	-9	-6	-4	-9	-17	-25	-31
	-16	-7	-8	-5	-7	-11	-15	-23
24-36°	-8	-7	-7	-7	-10	-13	-18	-24
	-8	-6	-7	-7	-10	-13	-15	-22

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-19	-8	-6	-3	-11	-18	-24	-31
	-18	-9	-10	-2	-7	-13	-16	-25
16°	-16	-7	-5	-4	-11	-18	-24	-30
	-12	-5	-7	-4	-8	-11	-14	-22
24-36°	-5	-5	-5	-6	-10	-13	-17	-23
	-5	-4	-5	-6	-9	-12	-14	-21

SK11515

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-4	-1	0	0	0	0	0	0



JM AEROFOIL

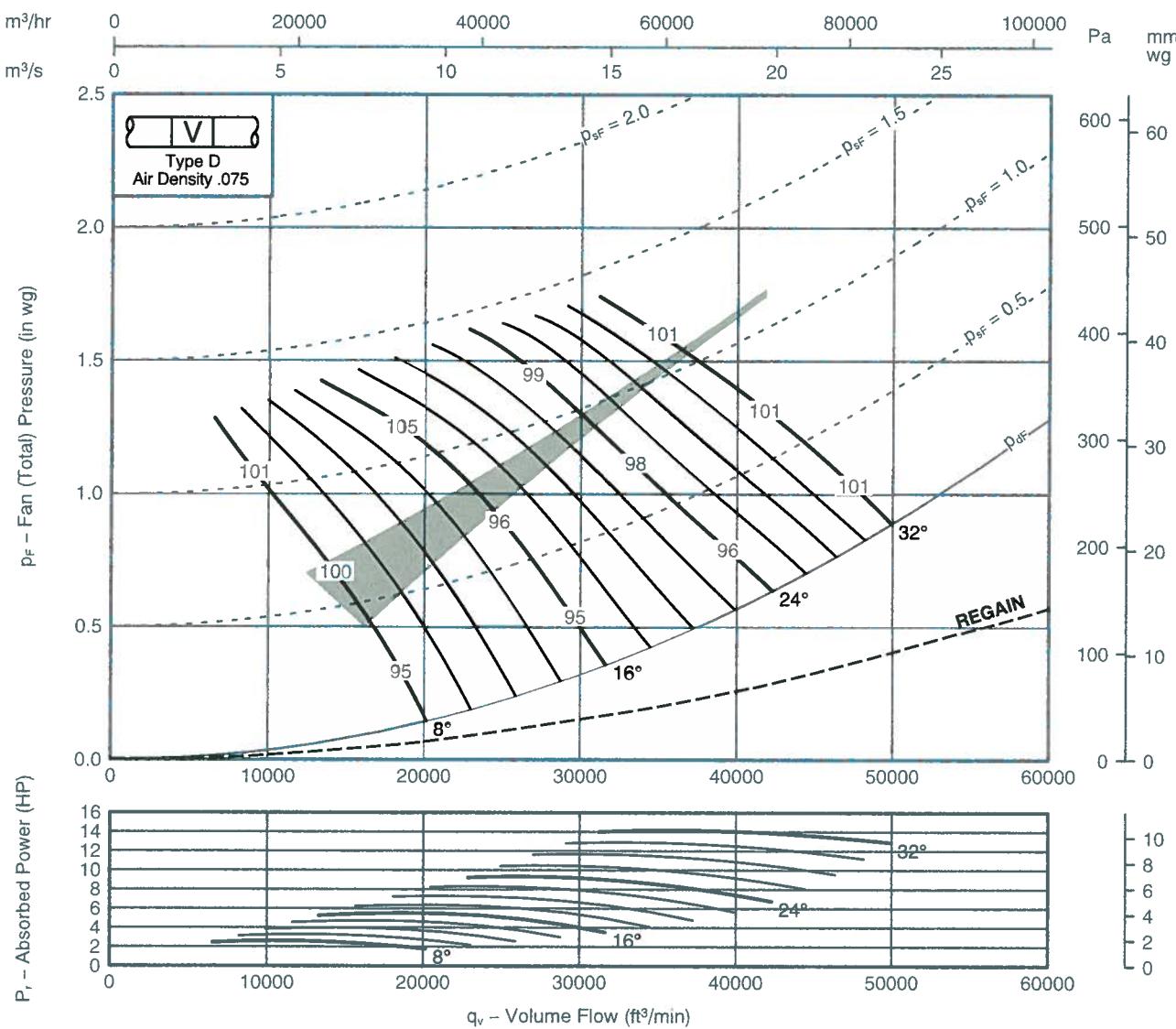
Fan Code: 125JM/50/8/6/
1250 mm 875 RPM
6 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									
Pitch Angle	Octave Band Center Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
8°	-12	-10	-12	-3	-8	-17	-23	-28	
	-9	-9	-8	-5	-8	-12	-14	-21	
16°	-11	-9	-7	-4	-11	-16	-22	-26	
	-5	-6	-7	-10	-11	-15	-18	-22	
24-32°	-6	-7	-7	-8	-11	-13	-15	-18	
	-6	-6	-7	-9	-11	-14	-16	-19	

Outlet Levels									
Pitch Angle	Octave Band Center Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
8°	-9	-10	-10	-2	-7	-17	-22	-26	
	-6	-8	-8	-5	-7	-12	-13	-19	
16°	-8	-9	-6	-3	-12	-16	-21	-26	
	-3	-5	-6	-10	-12	-14	-17	-22	
24-32°	-3	-5	-7	-8	-12	-13	-14	-19	
	-3	-5	-7	-8	-12	-13	-15	-19	

SK11516

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-4	-1	0	0	0	0	0	0



JM AEROFOIL

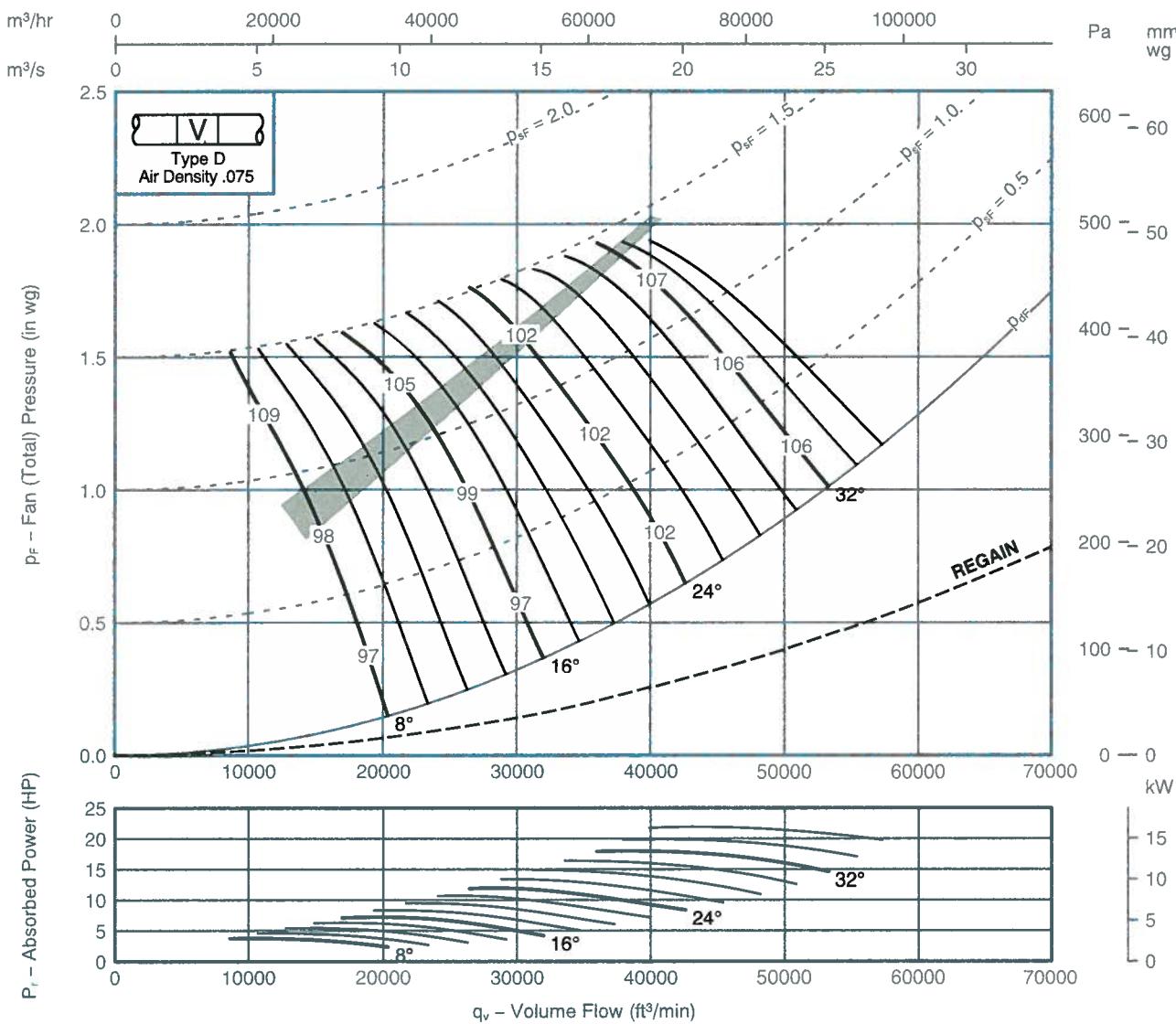
Fan Code: 125JM/50/8/9/
1250 mm 875 RPM
9 Blades 60 Hz



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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

Performance ratings do not include the effects of appurtenances in the airstream.



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-11	-7	-3	-8	-15	-21	-27
	-11	-6	-9	-6	-8	-12	-14	-23
16°	-13	-7	-5	-5	-11	-17	-23	-29
	-10	-4	-8	-9	-11	-14	-16	-24
24-36°	-7	-6	-7	-8	-11	-16	-19	-23
	-8	-4	-7	-10	-12	-15	-19	-24

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-9	-6	-3	-8	-14	-20	-26
	-18	-4	-8	-5	-8	-11	-13	-22
16°	-11	-6	-3	-5	-10	-16	-22	-27
	-7	-2	-6	-9	-10	-13	-15	-23
24-36°	-4	-5	-5	-7	-11	-15	-17	-22
	-4	-3	-4	-9	-11	-14	-17	-22

SK11517

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-4	-1	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 125JM/50/8/12/...

1250 mm 875 RPM

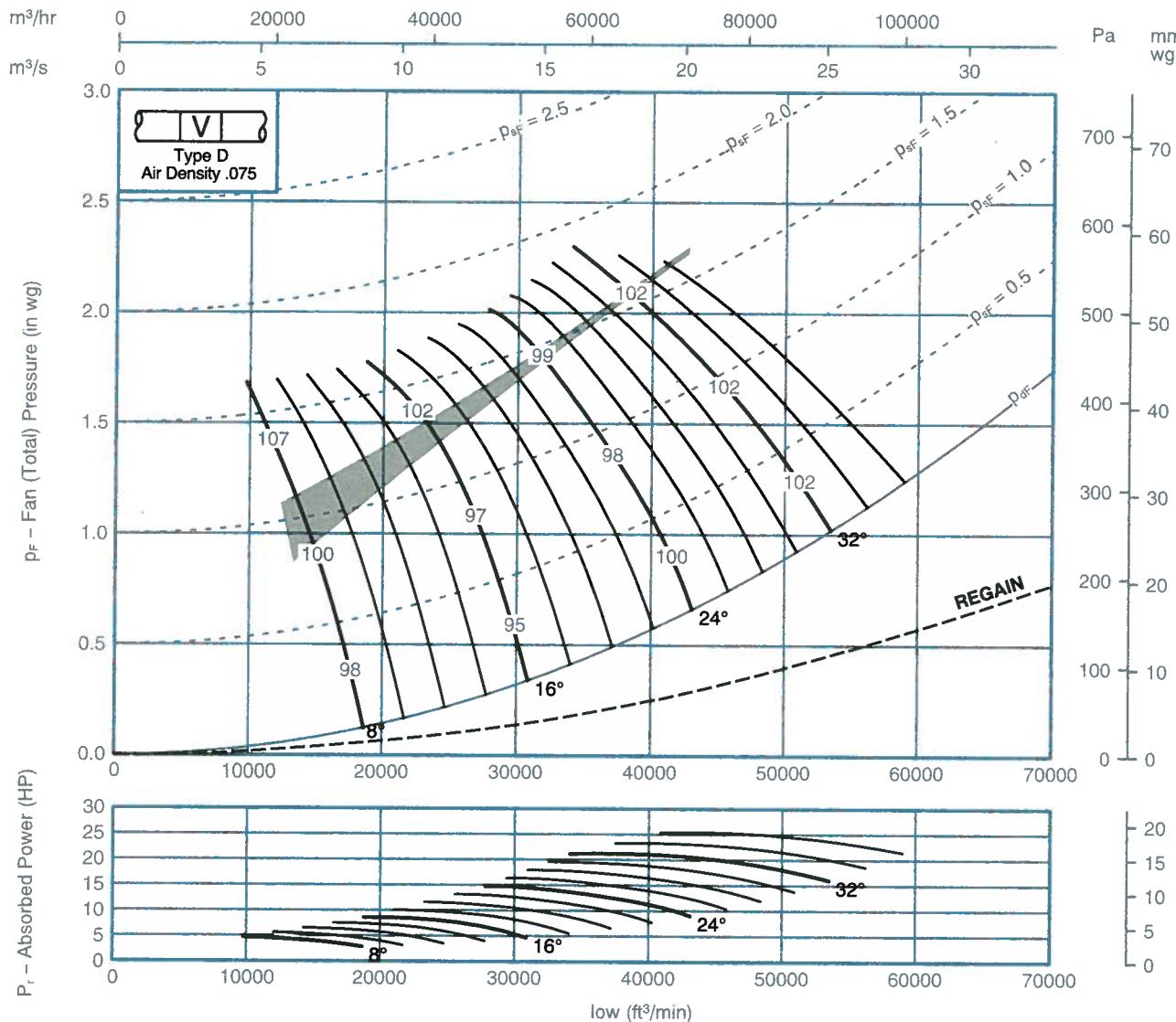
12 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									
Pitch Angle	Octave Band Center Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
8°	-20	-8	-9	-4	-7	-15	-21	-29	
	-17	-5	-8	-5	-8	-14	-18	-26	
16°	-15	-9	-6	-5	-7	-15	-22	-29	
	-12	-4	-9	-7	-9	-13	-18	-25	
24-36°	-8	-6	-7	-7	-10	-14	-17	-21	
	-8	-5	-9	-8	-10	-13	-16	-22	

Outlet Levels									
Pitch Angle	Octave Band Center Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
8°	-16	-5	-8	-5	-7	-13	-18	-27	
	-14	-3	-7	-7	-8	-11	-15	-24	
16°	-13	-6	-5	-5	-7	-13	-18	-26	
	-9	-1	-8	-7	-9	-11	-15	-22	
24-36°	-6	-4	-7	-7	-10	-12	-14	-19	
	-6	-3	-8	-8	-10	-11	-13	-20	

SK11518

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-4	-1	0	0	0	0	0	0



JM AEROFOIL

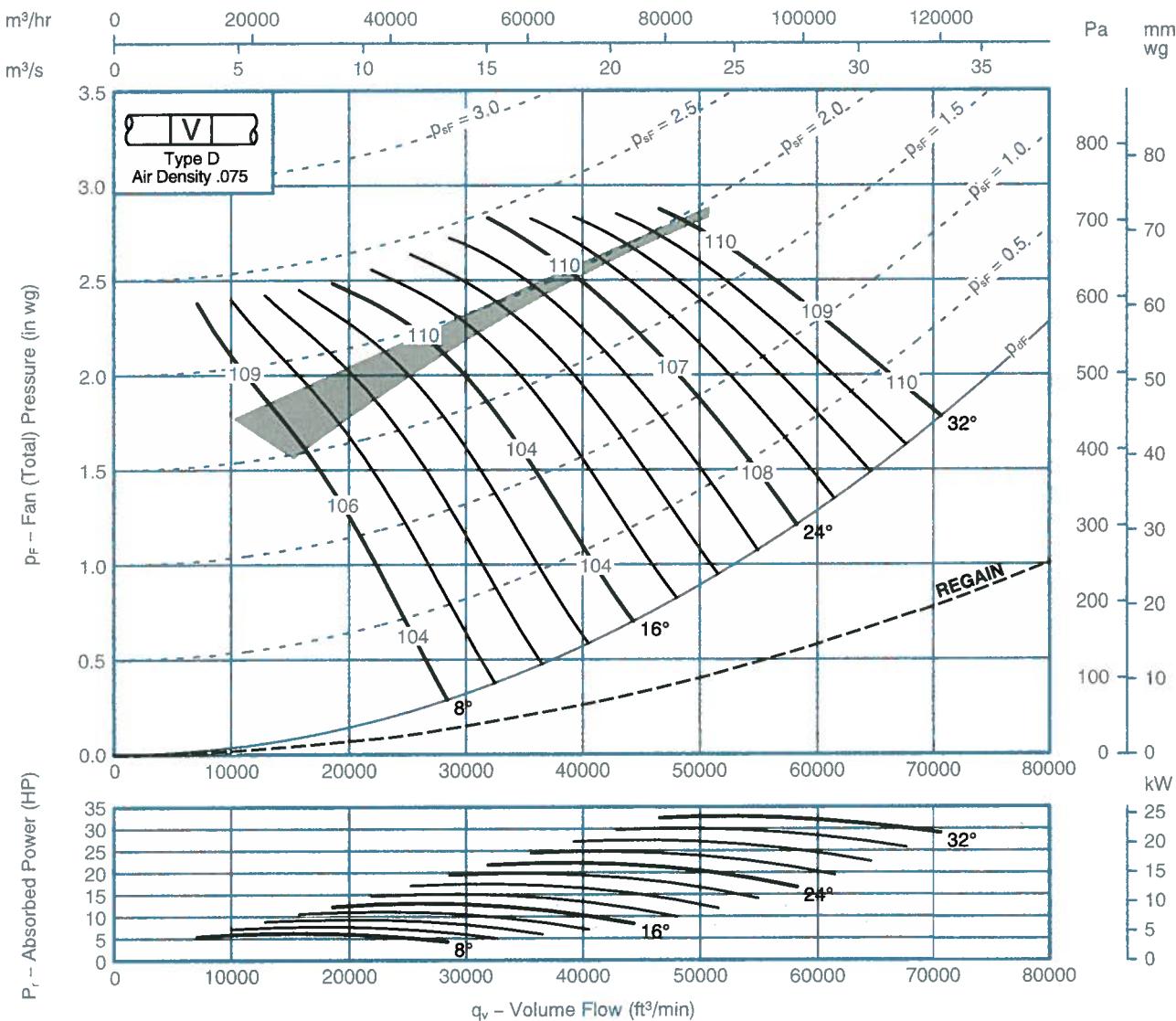
Fan Code: 125JM/40/6/6/
1250 mm 1170 RPM
6 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-10	-5	-4	-9	-17	-22	-27
	-13	-14	-10	-4	-5	-11	-16	-21
16°	-11	-11	-8	-5	-6	-11	-18	-24
	-6	-7	-6	-9	-9	-12	-15	-20
24-32°	-8	-9	-7	-6	-7	-14	-17	-20
	-6	-7	-6	-9	-10	-14	-16	-19

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-7	-4	-4	-9	-17	-23	-26
	-12	-11	-10	-4	-5	-10	-17	-20
16°	-9	-9	-8	-5	-6	-11	-18	-23
	-4	-5	-6	-9	-9	-12	-15	-19
24-32°	-6	-7	-6	-6	-6	-7	-13	-17
	-4	-5	-5	-9	-10	-13	-17	-18

SK11519

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-4	-1	0	0	0	0	0	0



JM AEROFOIL

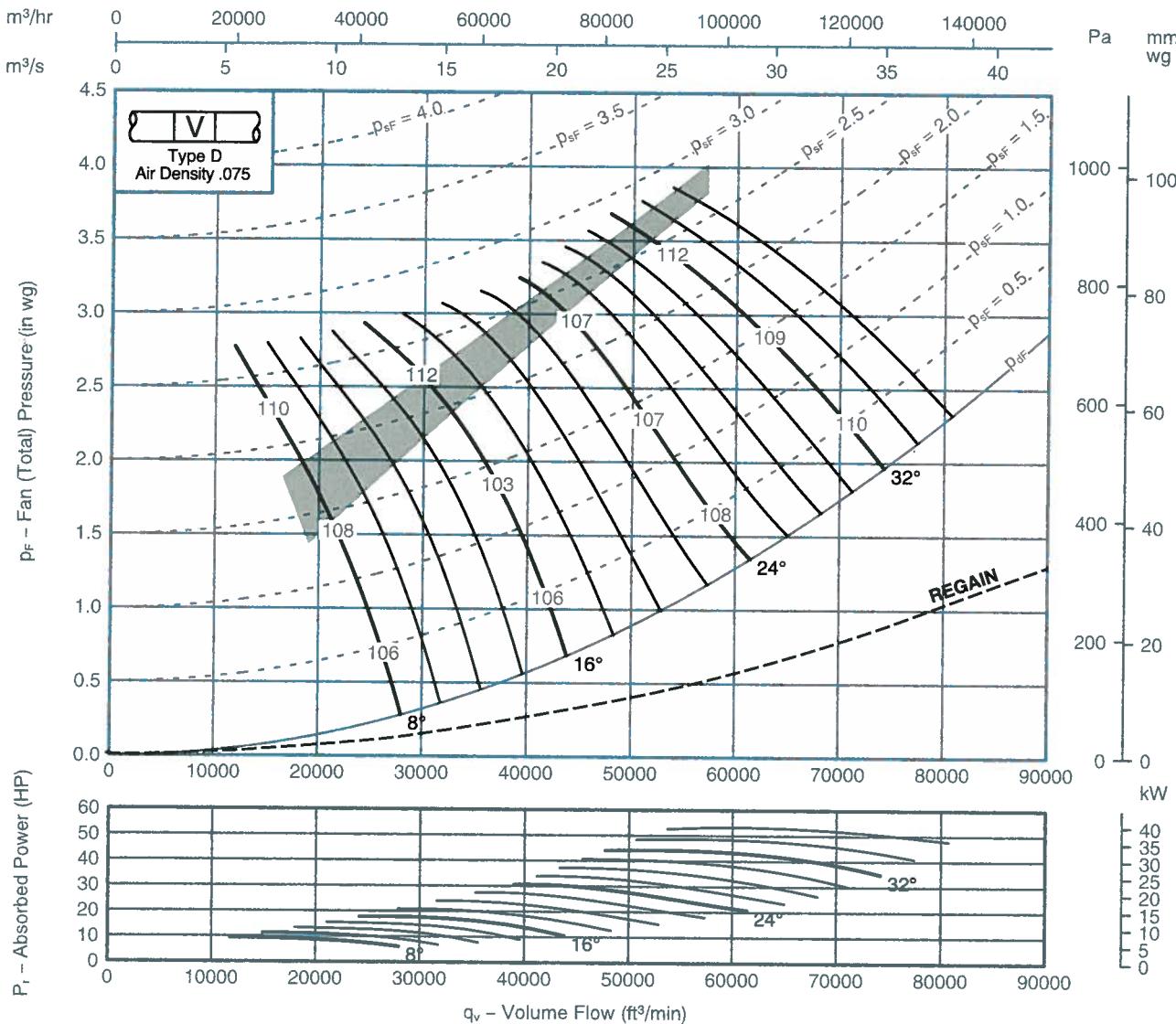
Fan Code: 125JM/40/6/9/...
1250 mm 1170 RPM
9 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
63	125	250	500	1k	2k	4k	8k	
8°	-23	-14	-6	-3	-7	-15	-23	-29
	-21	-14	-10	-5	-4	-11	-16	-22
16°	-22	-15	-7	-4	-6	-14	-22	-28
	-17	-8	-9	-6	-5	-9	-14	-19
24-36°	-9	-7	-7	-7	-8	-13	-16	-22
	-8	-6	-7	-8	-8	-12	-14	-19

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
63	125	250	500	1k	2k	4k	8k	
8°	-21	-11	-6	-3	-7	-15	-22	-28
	-17	-11	-9	-5	-4	-11	-15	-20
16°	-18	-12	-6	-4	-7	-14	-21	-28
	-13	-5	-8	-5	-7	-10	-12	-18
24-36°	-6	-4	-6	-6	-7	-12	-15	-21
	-5	-4	-6	-6	-7	-12	-13	-18

SK11520

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-4	-1	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 125JM/50/6/6/...

1250 mm 1170 RPM

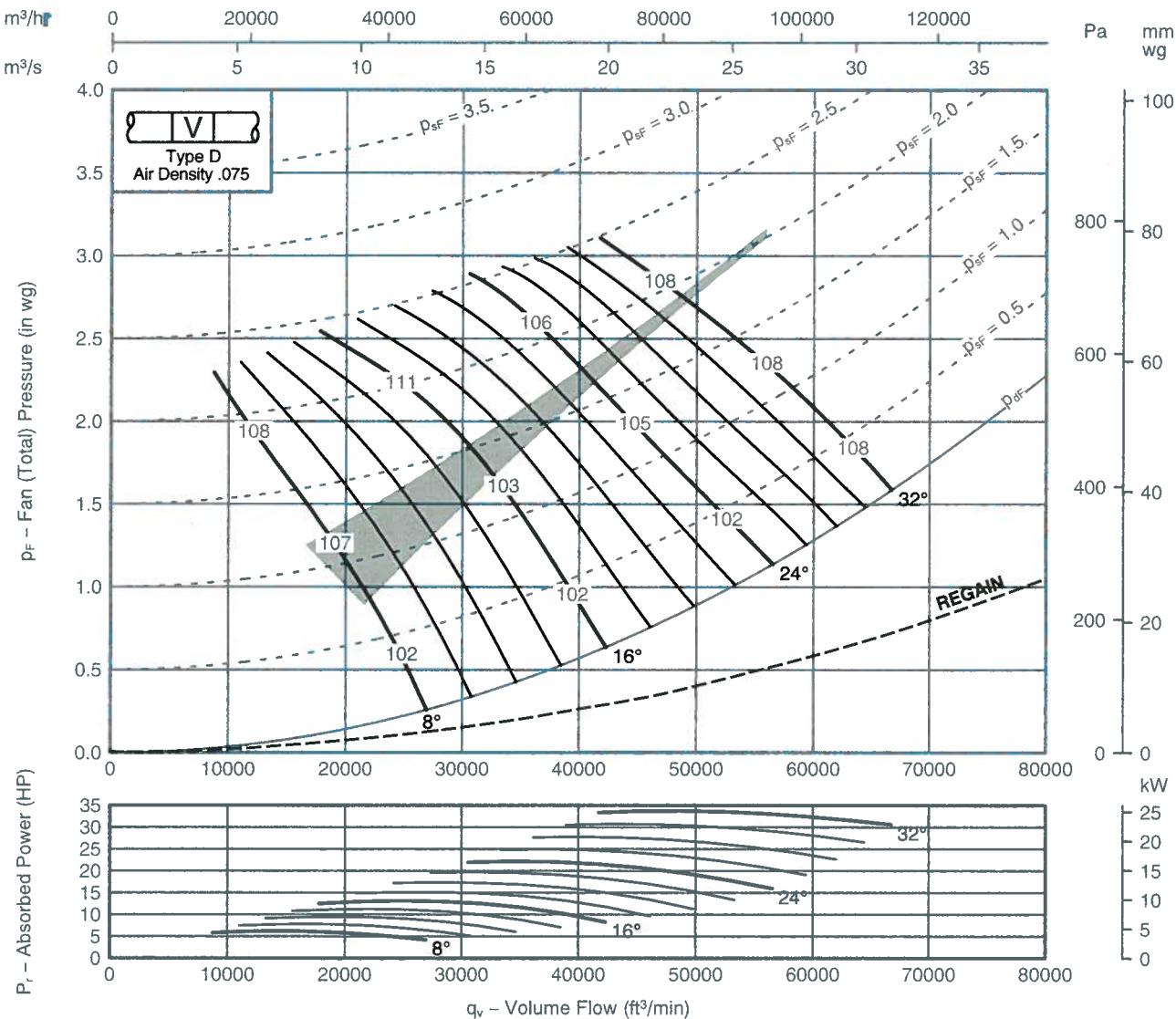
6 Blades 60 Hz



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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-10	-10	-6	-4	-13	-21	-25
	-14	-8	-8	-7	-6	-10	-14	-16
16°	-16	-9	-7	-4	-7	-14	-20	-24
	-9	-5	-6	-10	-10	-13	-17	-20
24-32°	-7	-6	-7	-8	-10	-13	-15	-17
	-7	-6	-7	-9	-10	-13	-15	-18

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-8	-9	-6	-3	-13	-20	-24
	-12	-5	-7	-6	-5	-10	-13	-15
16°	-14	-8	-7	-4	-8	-13	-19	-24
	-8	-3	-5	-9	-11	-14	-16	-20
24-32°	-5	-5	-6	-8	-11	-12	-14	-17
	-4	-4	-6	-8	-11	-12	-14	-18

SK11521

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-4	-1	0	0	0	0	0	0



JM AEROFOIL

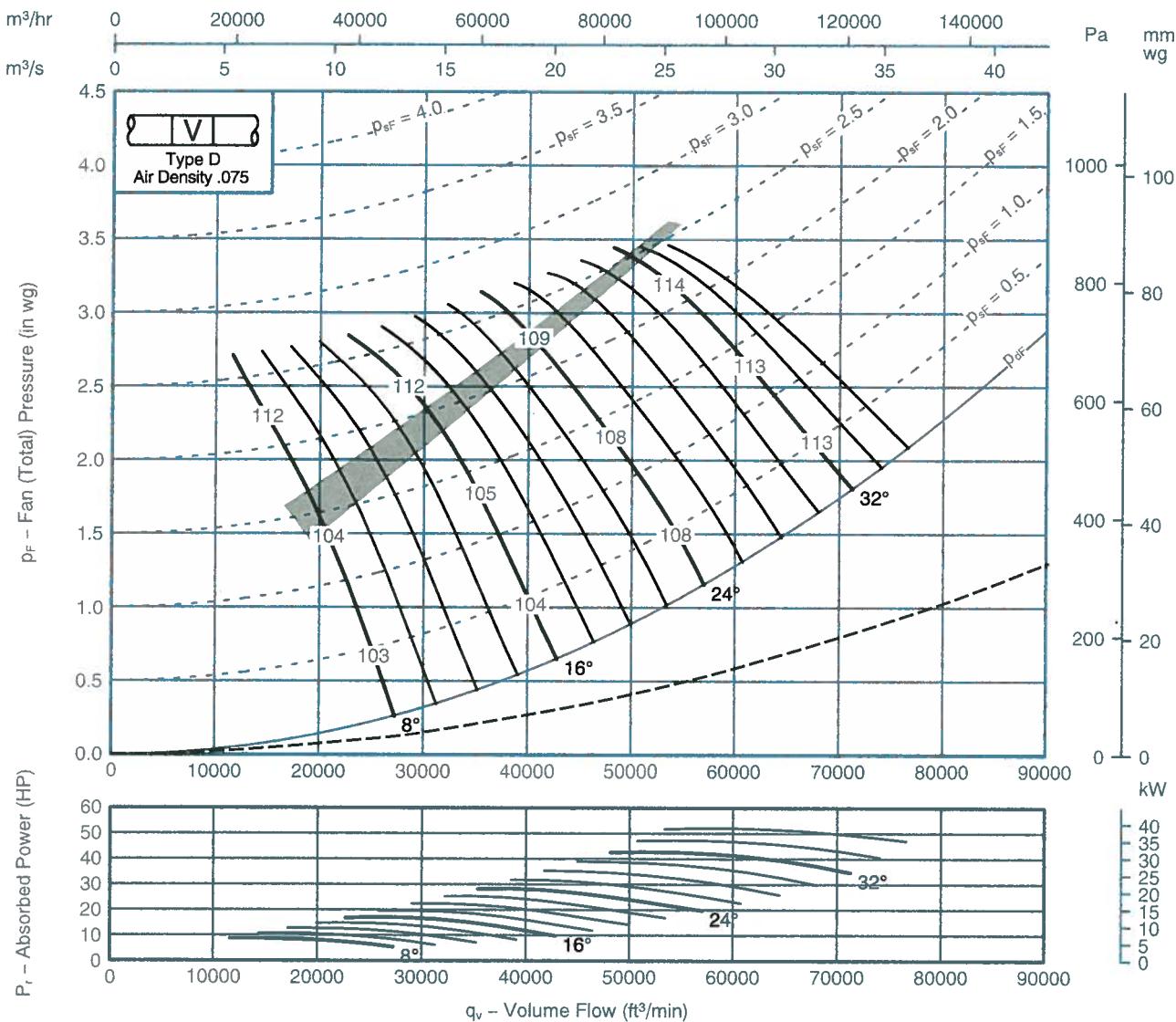
Fan Code: 125JM/50/6/9/...
1250 mm 1170 RPM
9 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-18	-12	-9	-4	-5	-13	-18	-26
	-13	-8	-6	-7	-6	-11	-13	-19
16°	-16	-9	-5	-4	-8	-15	-20	-27
	-12	-7	-4	-9	-9	-12	-15	-20
24-36°	-8	-8	-5	-9	-10	-14	-18	-21

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-10	-8	-4	-5	-11	-17	-24
	-11	-6	-5	-6	-6	-9	-12	-18
16°	-13	-7	-3	-4	-8	-14	-19	-26
	-9	-5	-2	-9	-9	-11	-14	-18
24-36°	-4	-7	-4	-8	-9	-13	-16	-20
	-5	-5	-1	-9	-10	-13	-16	-20

SK11522

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-4	-1	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 125JM/50/6/12/...

1250 mm 1170 RPM

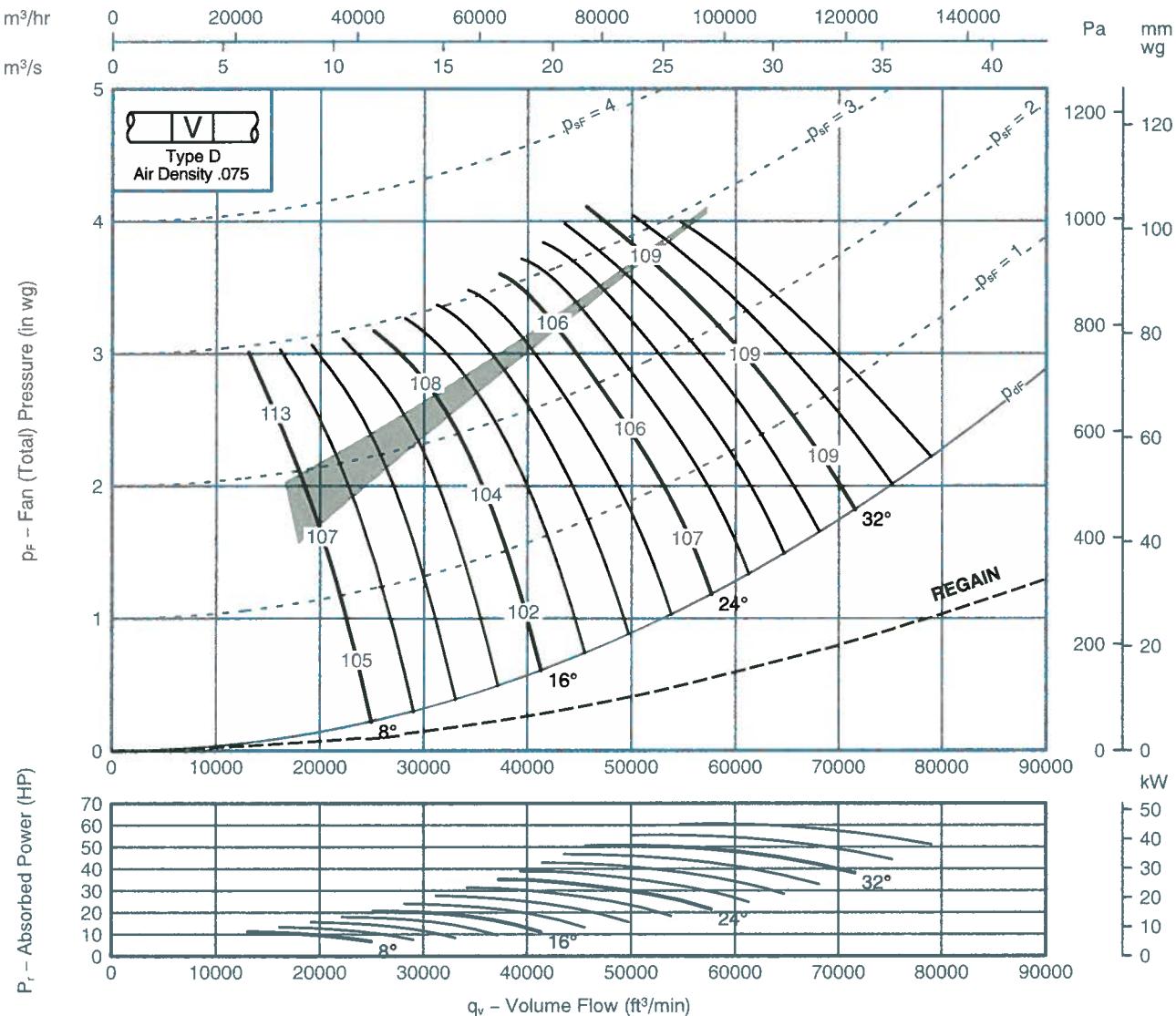
12 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-19	-15	-6	-5	-5	-11	-18	-25
	-17	-14	-4	-6	-6	-11	-18	-25
16°	-14	-13	-6	-5	-5	-11	-18	-25
	-11	-12	-3	-8	-8	-12	-16	-21
24-36°	-8	-10	-6	-8	-8	-13	-15	-20
	-8	-9	-5	-9	-9	-12	-15	-20

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-13	-5	-6	-5	-9	-15	-23
	-13	-12	-3	-8	-6	-9	-14	-20
16°	-12	-12	-4	-5	-5	-10	-16	-23
	-8	-10	-1	-8	-8	-10	-13	-19
24-36°	-5	-8	-4	-8	-9	-11	-13	-17
	-5	-7	-3	-9	-9	-10	-12	-18

SK11523

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-4	-1	0	0	0	0	0	0



JM AEROFOIL

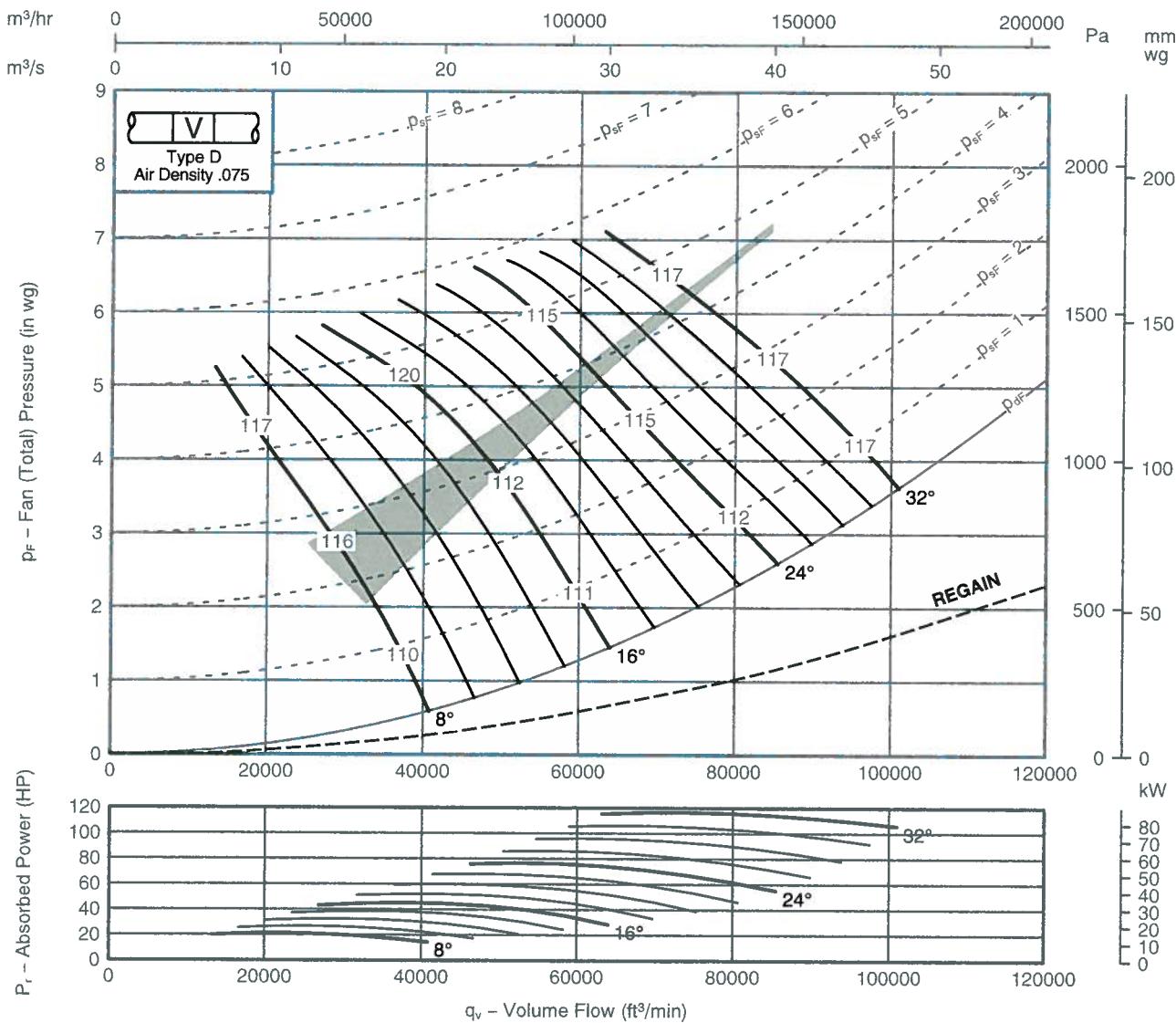
Fan Code: 125JM/50/4/6/
1250 mm 1770 RPM
6 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									
Pitch Angle	Octave Band Center Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
8°	-19	-11	-10	-11	-3	-8	-17	-23	
	-15	-8	-9	-8	-5	-8	-12	-14	
16°	-18	-10	-10	-7	-4	-10	-16	-21	
	-11	-5	-6	-7	-10	-11	-15	-18	
24-32°	-9	-6	-7	-8	-9	-12	-14	-16	
	-8	-6	-7	-8	-10	-11	-14	-16	

Outlet Levels									
Pitch Angle	Octave Band Center Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
8°	-17	-10	-10	-11	-2	-7	-16	-22	
	-13	-6	-8	-8	-4	-8	-11	-13	
16°	-16	-9	-9	-6	-5	-10	-15	-21	
	-9	-4	-6	-7	-11	-11	-14	-18	
24-32°	-6	-5	-7	-7	-10	-11	-13	-16	
	-5	-4	-7	-7	-11	-11	-13	-16	

SK11524

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-4	-1	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 125JM/50/4/9/...

1250 mm 1770 RPM

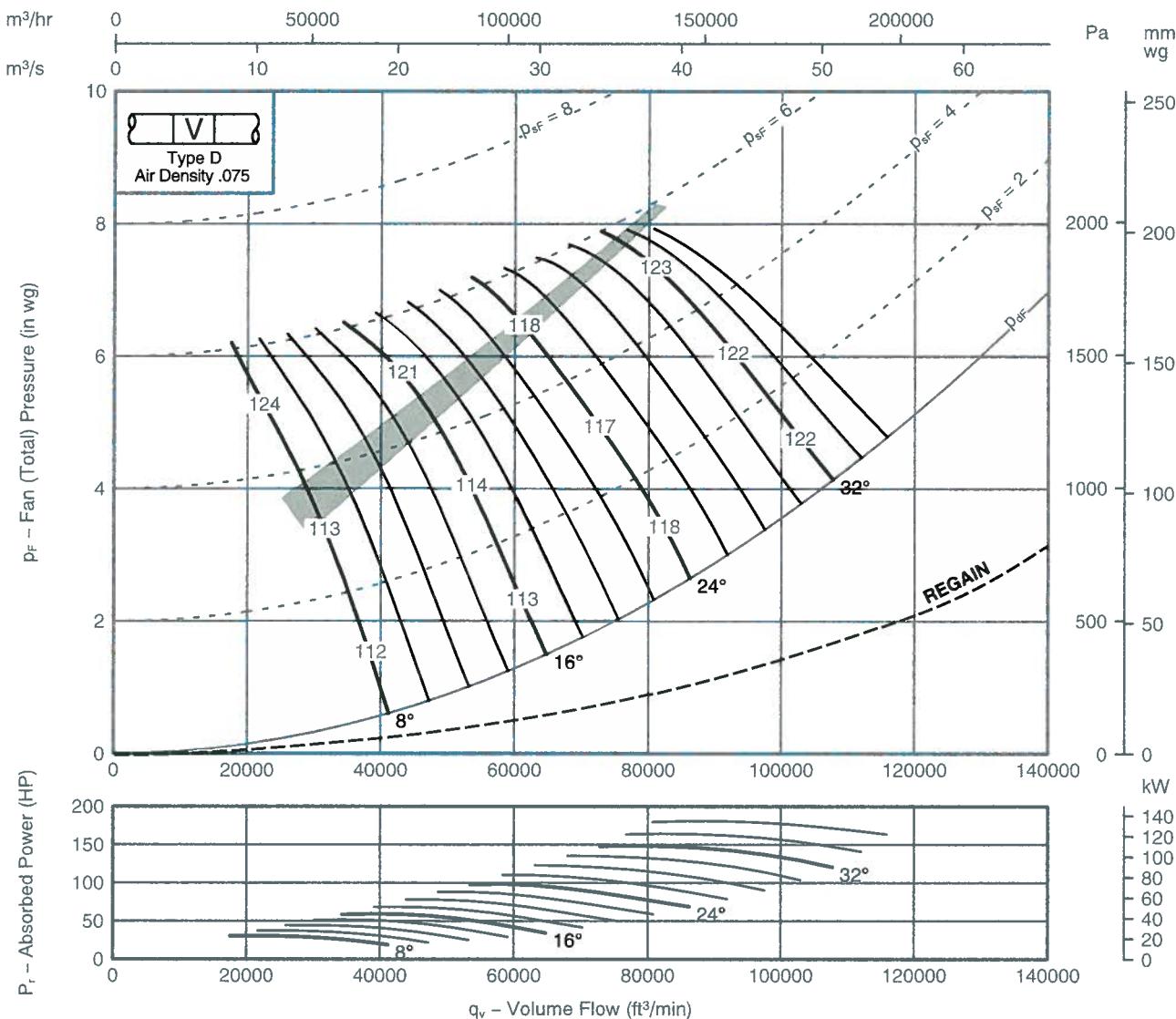
9 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-21	-15	-11	-7	-3	-8	-15	-21
	-15	-11	-6	-9	-6	-8	-12	-14
16°	-18	-13	-7	-5	-5	-11	-17	-23
	-14	-10	-4	-7	-9	-11	-14	-16
24-36°	-9	-8	-7	-7	-9	-12	-16	-19
	-11	-8	-5	-6	-10	-12	-15	-19

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-18	-14	-9	-7	-3	-6	-14	-20
	-13	-10	-4	-8	-5	-6	-11	-13
16°	-15	-12	-5	-4	-4	-5	-10	-22
	-11	-9	-2	-7	-8	-10	-13	-15
24-36°	-6	-7	-5	-6	-8	-11	-15	-18
	-7	-7	-3	-5	-9	-11	-14	-17

SK11525

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-4	-1	0	0	0	0	0	0



JM AEROFOIL

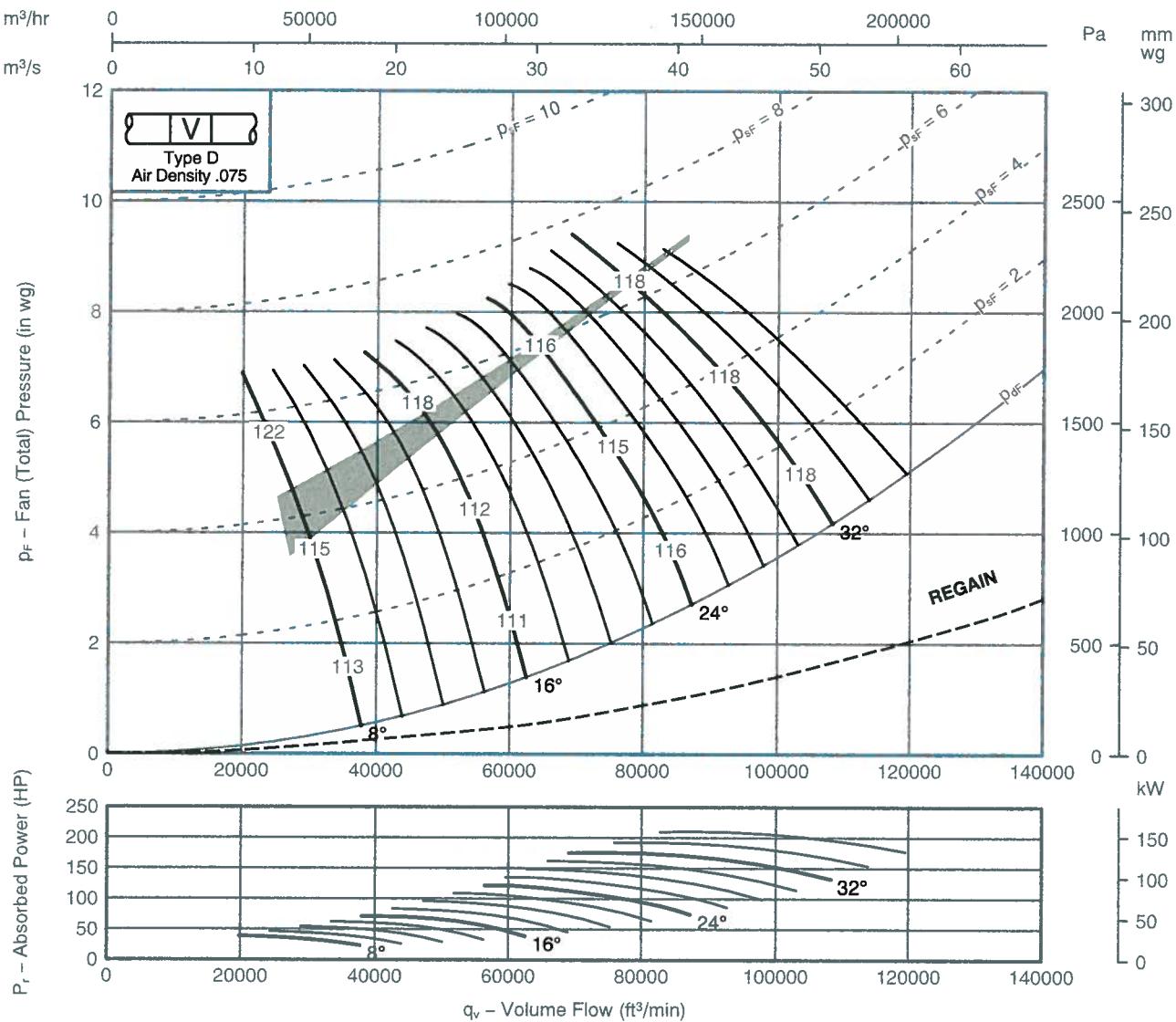
Fan Code: 125JM/50/4/12/
1250 mm 1770 RPM
12 Blades 60 Hz



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Inlet Levels									
Pitch Angle	Octave Band Center Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
8°	-19	-20	-8	-8	-4	-7	-14	-21	
	-17	-17	-6	-8	-5	-8	-14	-18	
16°	-15	-15	-9	-6	-5	-7	-15	-21	
	-12	-12	-4	-9	-8	-9	-13	-18	
24-36°	-9	-9	-7	-8	-8	-10	-14	-17	
	-9	-8	-6	-9	-9	-10	-14	-17	

Outlet Levels									
Pitch Angle	Octave Band Center Frequency (Hz)								
	63	125	250	500	1k	2k	4k	8k	
8°	-16	-18	-6	-8	-3	-5	-12	-18	
	-14	-15	-4	-8	-5	-6	-11	-16	
16°	-12	-13	-7	-5	-5	-5	-11	-19	
	-9	-10	-1	-8	-8	-8	-10	-15	
24-36°	-6	-6	-6	-4	-7	-8	-11	-15	
	-6	-6	-6	-4	-8	-9	-11	-14	

SK11526

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-4	-1	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 140JM/40/8/6/...

1400 mm 875 RPM

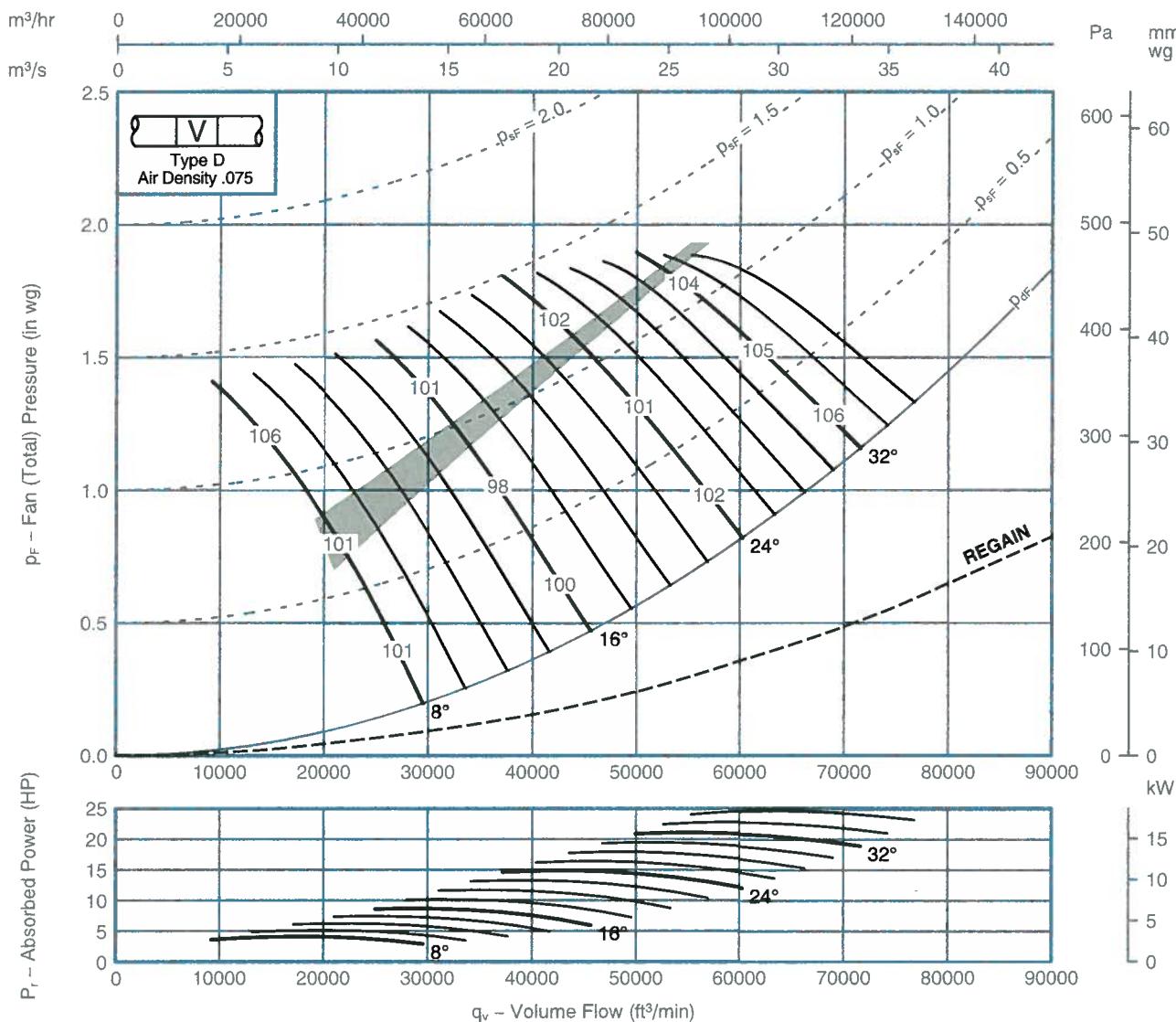
6 Blades 60 Hz



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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-14	-10	-3	-6	-11	-14	-26
	-15	-12	-12	-7	-6	-6	-9	-24
16°	-14	-11	-10	-3	-8	-13	-18	-23
	-8	-7	-9	-9	-11	-9	-10	-21
24-36°	-8	-6	-8	-7	-9	-13	-16	-17
	-6	-6	-8	-8	-11	-14	-15	-17

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-12	-10	-2	-6	-9	-13	-25
	-12	-10	-11	-6	-5	-8	-20	-23
16°	-11	-9	-9	-3	-7	-13	-16	-22
	-4	-5	-8	-9	-11	-8	-9	-20
24-36°	-5	-5	-7	-6	-9	-12	-14	-16
	-3	-5	-6	-6	-11	-13	-13	-16

SK11527

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0



JM AEROFOIL

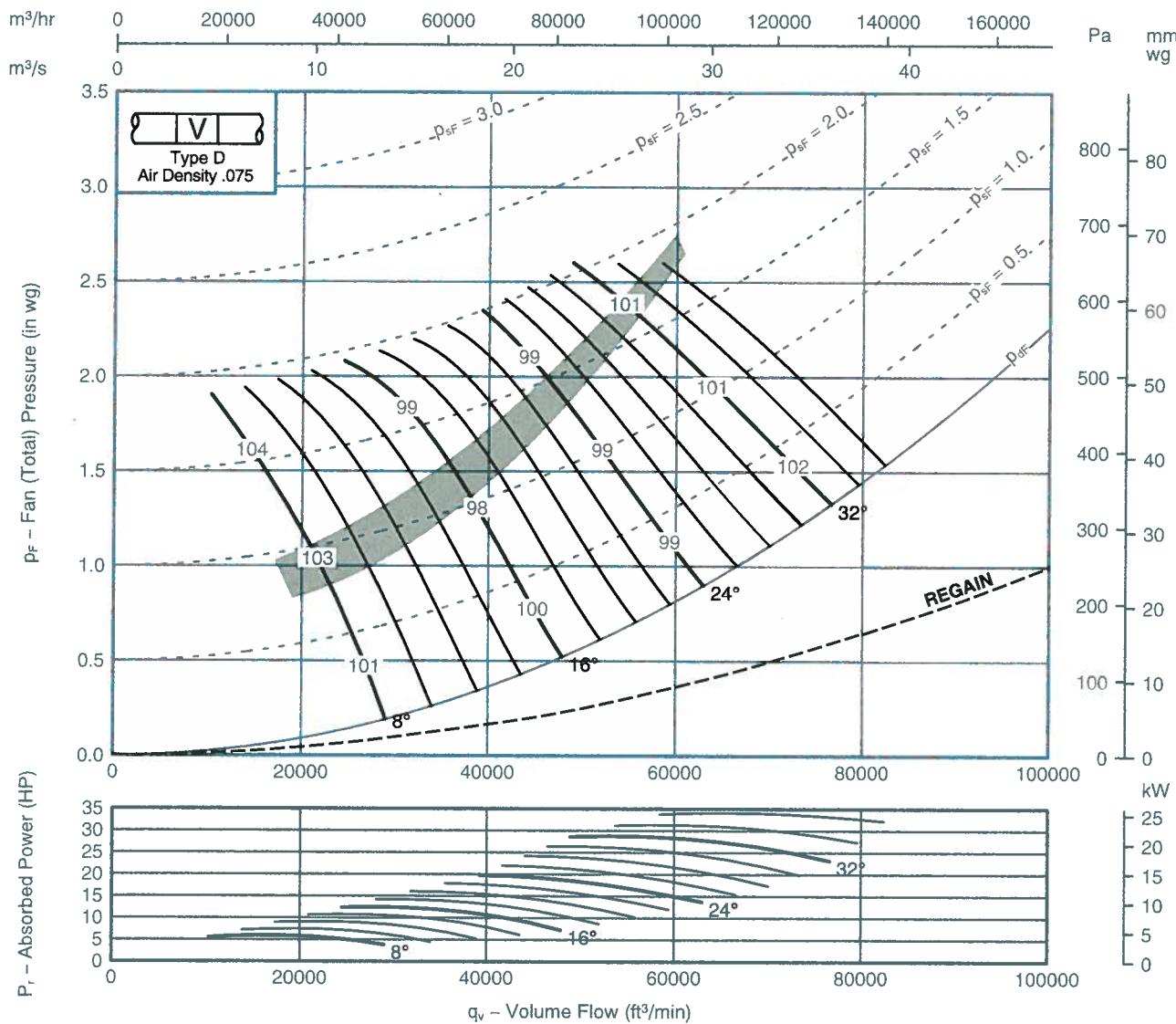
Fan Code: 140JM/40/8/9/
1400 mm 875 RPM
9 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
PH: (513) 874-2400 FAX: (513) 870-6249

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-18	-15	-11	-4	-6	-11	-16	-26
	-18	-14	-13	-8	-7	-5	-8	-22
16°	-7	-10	-10	-6	-8	-9	-12	-18
	-12	-10	-11	-9	-9	-5	-9	-20
24-36°	-7	-7	-9	-7	-9	-12	-15	-15
	-7	-7	-8	-7	-9	-11	-15	-17

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-12	-10	-2	-4	-9	-15	-25
	-15	-11	-12	-6	-5	-3	-8	-21
16°	-4	-7	-10	-6	-7	-9	-10	-17
	-8	-7	-9	-9	-7	-5	-9	-18
24-36°	-3	-4	-7	-7	-8	-11	-14	-14
	-3	-4	-6	-6	-8	-11	-13	-16

SK11528

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 140JM/50/8/9/...

1400 mm 875 RPM

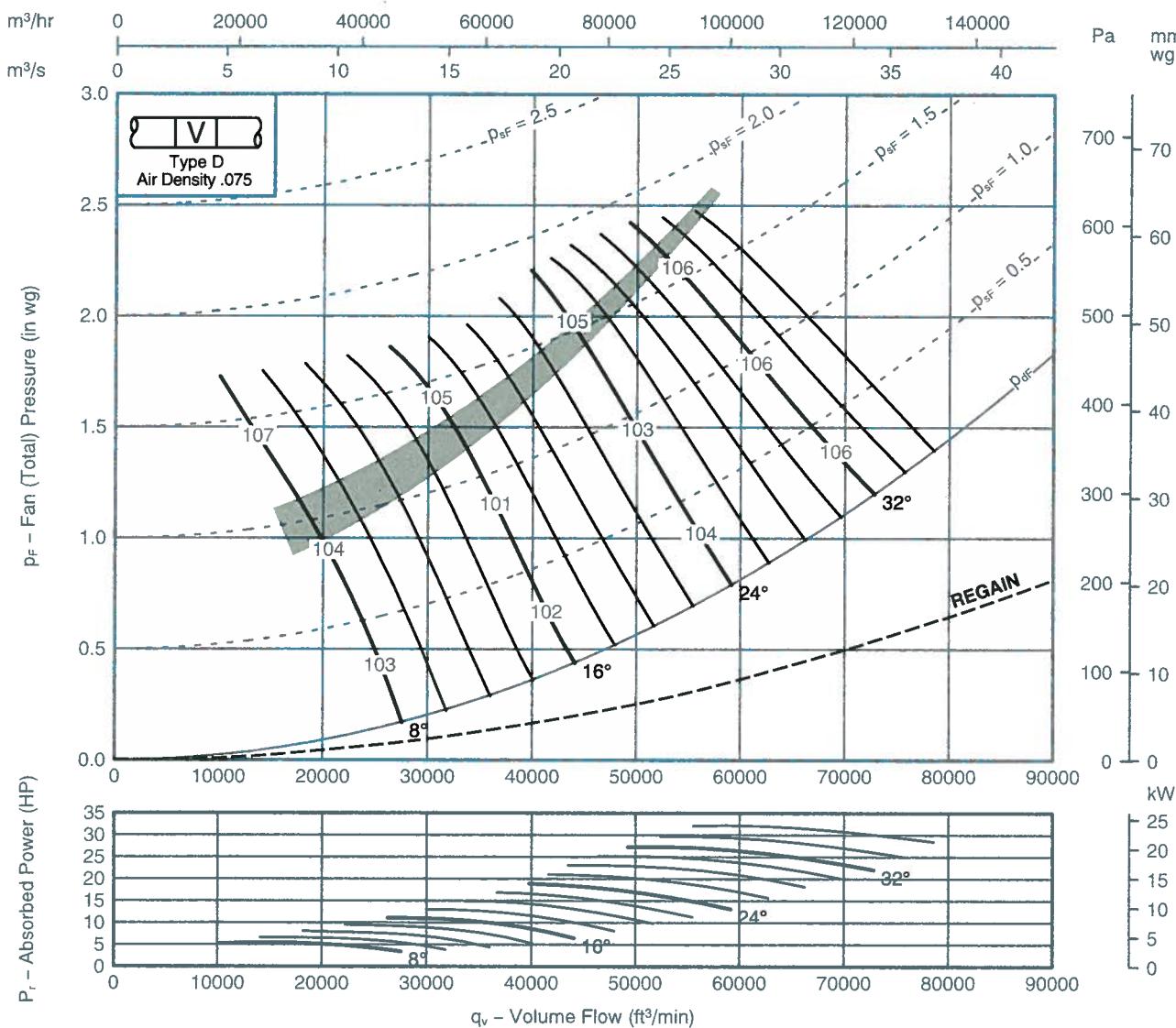
9 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-10	-9	-4	-7	-12	-17	-27
	-13	-10	-11	-5	-6	-8	-12	-25
16°	-13	-11	-7	-4	-8	-13	-19	-24
	-9	-6	-9	-8	-9	-9	-12	-20
24-36°	-7	-5	-9	-8	-11	-14	-16	-18
	-6	-5	-9	-9	-12	-14	-16	-19

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-8	-8	-3	-6	-11	-16	-26
	-10	-7	-10	-5	-6	-7	-11	-23
16°	-10	-8	-6	-3	-7	-12	-17	-23
	-6	-4	-7	-7	-8	-7	-11	-19
24-36°	-4	-2	-8	-7	-10	-13	-15	-17
	-3	-2	-7	-7	-11	-12	-14	-18

SK11529

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 140JM/50/8/12/...

1400 mm 875 RPM

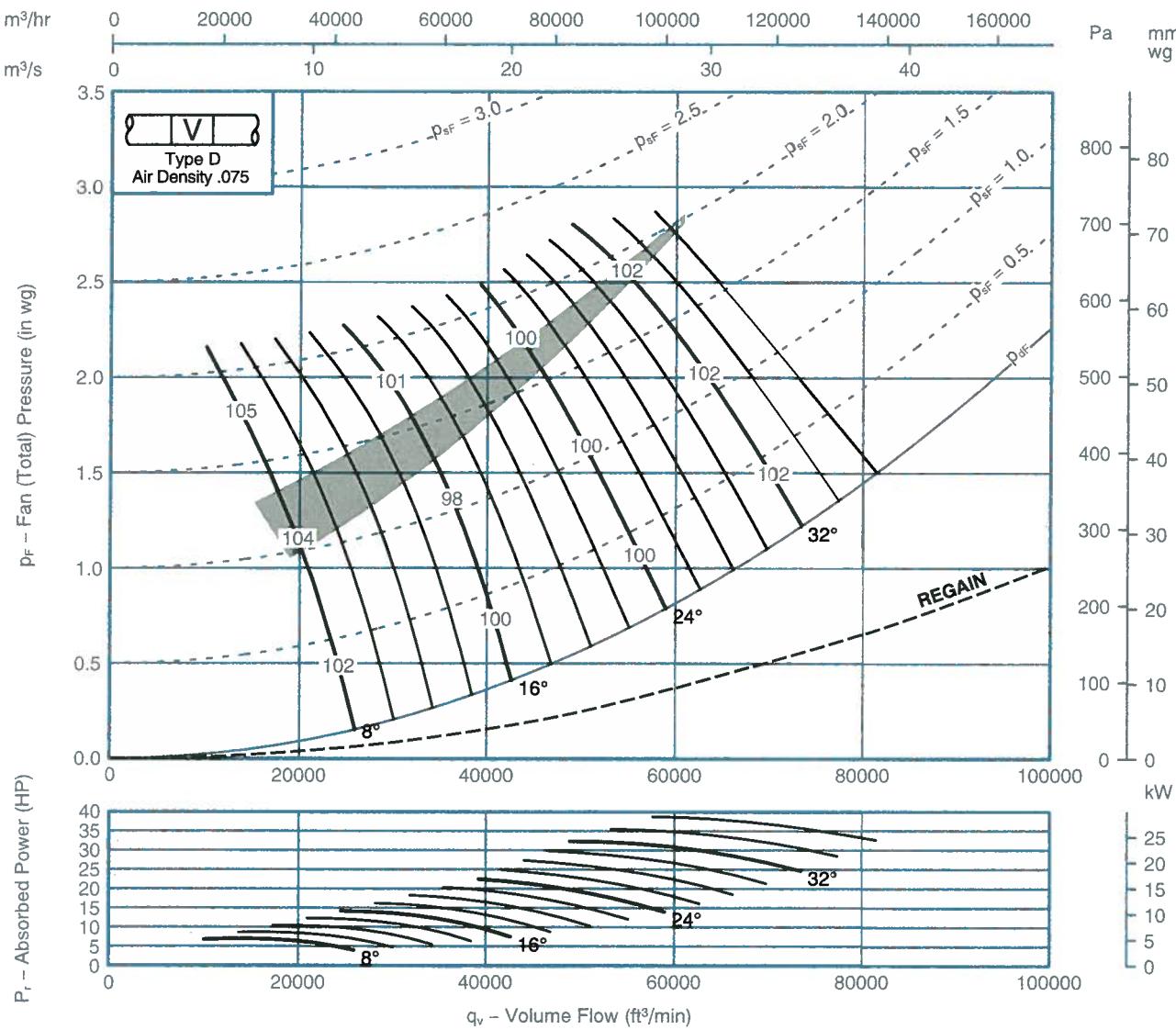
12 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-9	-10	-4	-6	-13	-19	-29
	-19	-13	-12	-6	-6	-7	-11	23
16°	-16	-13	-7	-3	-8	-15	-23	-27
	-11	-7	-12	-9	-8	-7	-11	-20
24-36°	-5	-6	-10	-8	-9	-13	-16	-16
	-7	-6	-10	-8	-9	-11	-15	-20

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-7	-10	-3	-5	-11	-17	-27
	-16	-11	-6	-3	-7	-14	-20	-26
16°	-13	-11	-6	-3	-7	-14	-20	-26
	-7	-3	-11	-9	-8	-6	-7	-18
24-36°	-2	-3	-8	-7	-8	-13	-15	-16
	-3	-2	-8	-7	-8	-11	-14	-19

SK11530

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0



JM AEROFOIL

Fan Code: 140JM/40/6/6/...

1400 mm 1170 RPM

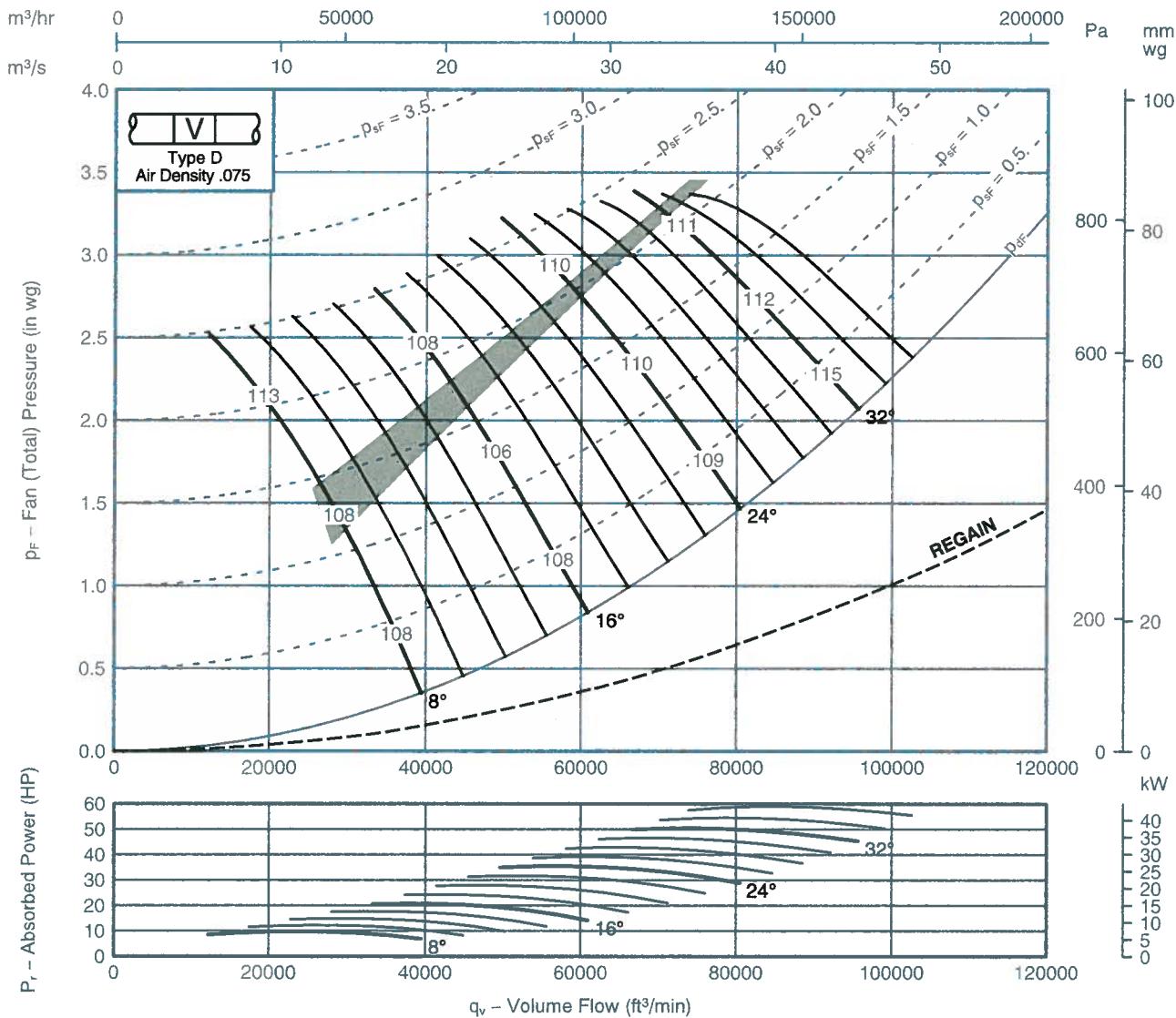
6 Blades 60 Hz



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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-16	-12	-5	-4	-9	-11	-22
	-14	-14	-11	-9	-5	-7	-7	-19
16°	-12	-12	-11	-5	-5	-11	-16	-21
	-7	-8	-7	-9	-11	-10	-9	-18
24-36°	-7	-8	-7	-7	-8	-12	-15	-17
	-6	-7	-7	-8	-10	-13	-15	-17

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-14	-12	-4	-4	-8	-10	-21
	-11	-12	-11	-8	-5	-6	-6	-18
16°	-10	-11	-10	-5	-4	-11	-14	-20
	-4	-6	-7	-9	-10	-10	-8	-17
24-36°	-5	-6	-6	-6	-8	-11	-13	-15
	-6	-6	-6	-7	-10	-12	-13	-16

SK1151

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0



JM AEROFOIL

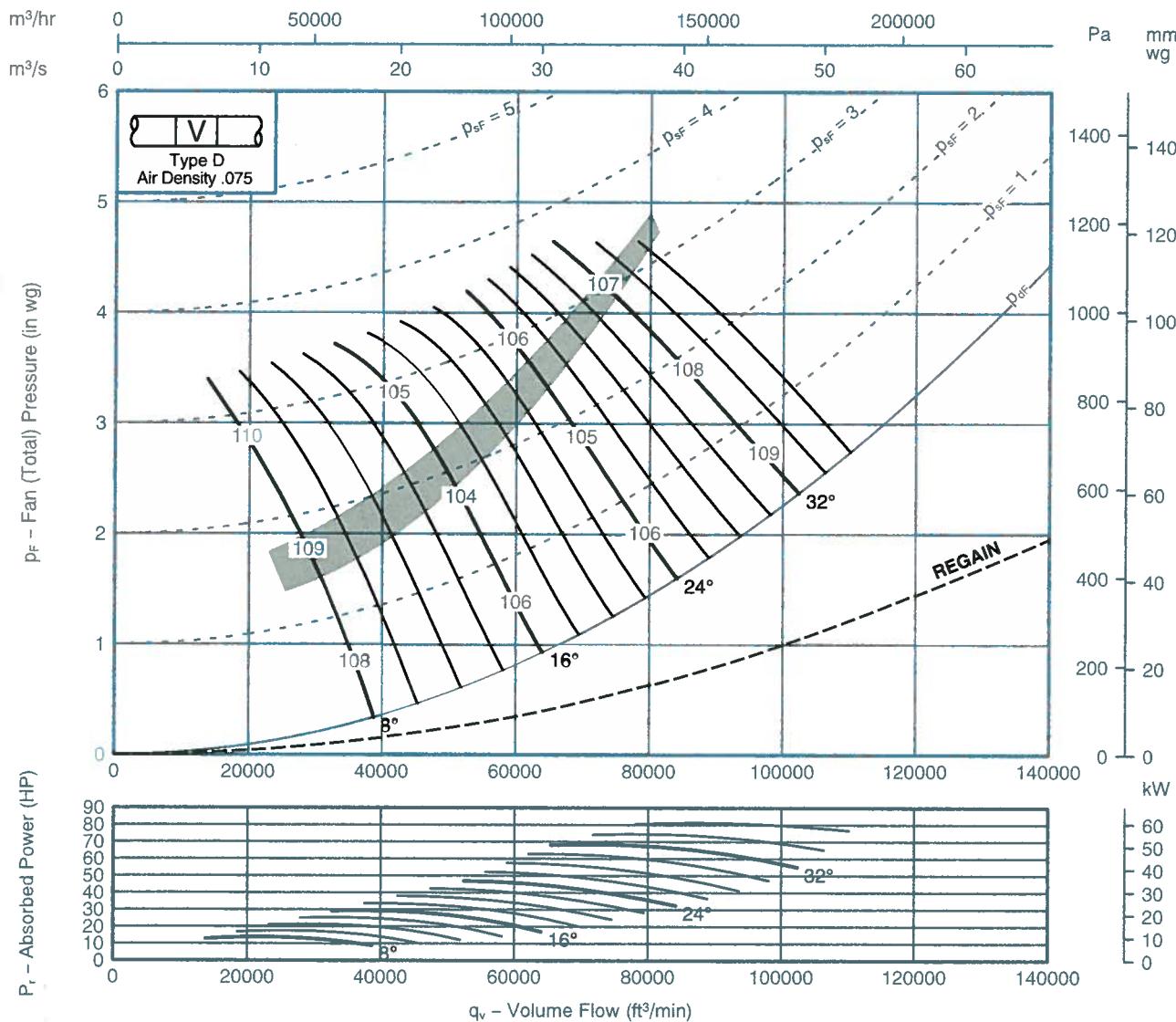
Fan Code: 140JM/40/6/9/
1400 mm 1170 RPM
9 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-19	-15	-12	-6	-4	-9	-12	-23
	-18	-14	-14	-9	-6	-6	-5	-18
16°	-7	-9	-12	-8	-7	-9	-10	-17
	-11	-9	-12	-9	-9	-7	-6	-17
24-36°	-6	-7	-10	-8	-8	-11	-15	-15
	-7	-7	-9	-7	-9	-11	-13	-17

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-13	-12	-4	-3	-7	-12	-23
	-15	-11	-13	-8	-5	-5	-5	-17
16°	-3	-7	-11	-8	-6	-9	-8	-16
	-8	-7	-11	-9	-8	-6	-6	-15
24-36°	-2	-4	-8	-7	-8	-10	-13	-14
	-2	-3	-7	-6	-8	-10	-11	-16

SK11532

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0



JM AEROFOIL

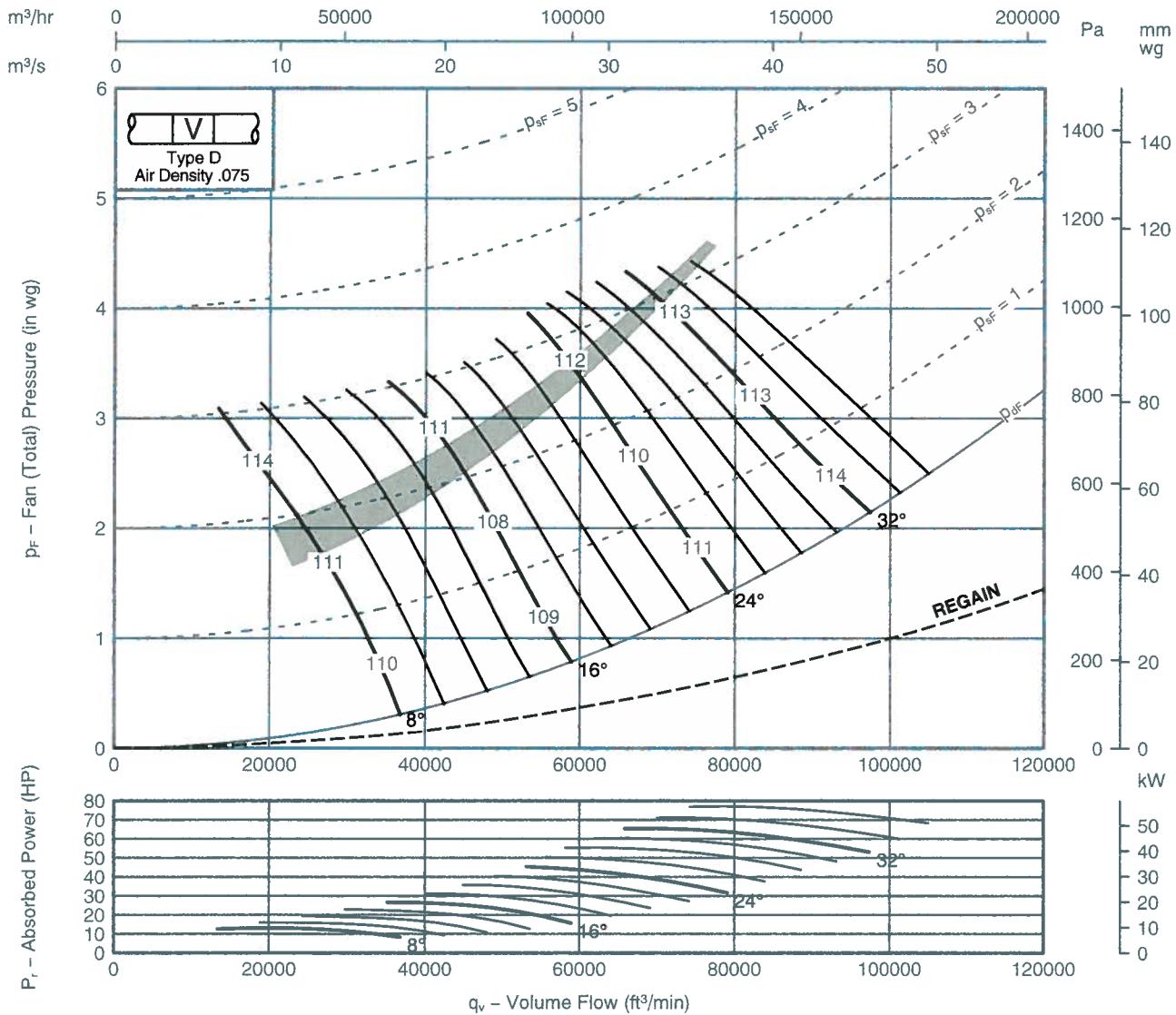
Fan Code: 140JM/50/6/9/...
1400 mm 1170 RPM
9 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-11	-10	-5	-5	-10	-14	-24
	-13	-11	-11	-7	-5	-8	-9	-20
16°	-13	-12	-10	-4	-6	-11	-16	-22
	-8	-8	-7	-9	-9	-9	-10	-18
24-36°	-7	-5	-7	-10	-12	-14	-15	-18
	-6	-5	-7	-10	-12	-14	-15	-18

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-8	-9	-4	-4	-10	-13	-23
	-10	-8	-10	-7	-5	-7	-8	-18
16°	-10	-9	-8	-3	-5	-10	-14	-21
	-5	-5	-5	-7	-8	-7	-8	-17
24-36°	-4	-3	-6	-8	-9	-12	-15	-16
	-4	-3	-5	-8	-11	-13	-14	-17

SK11533

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0



JM AEROFOIL

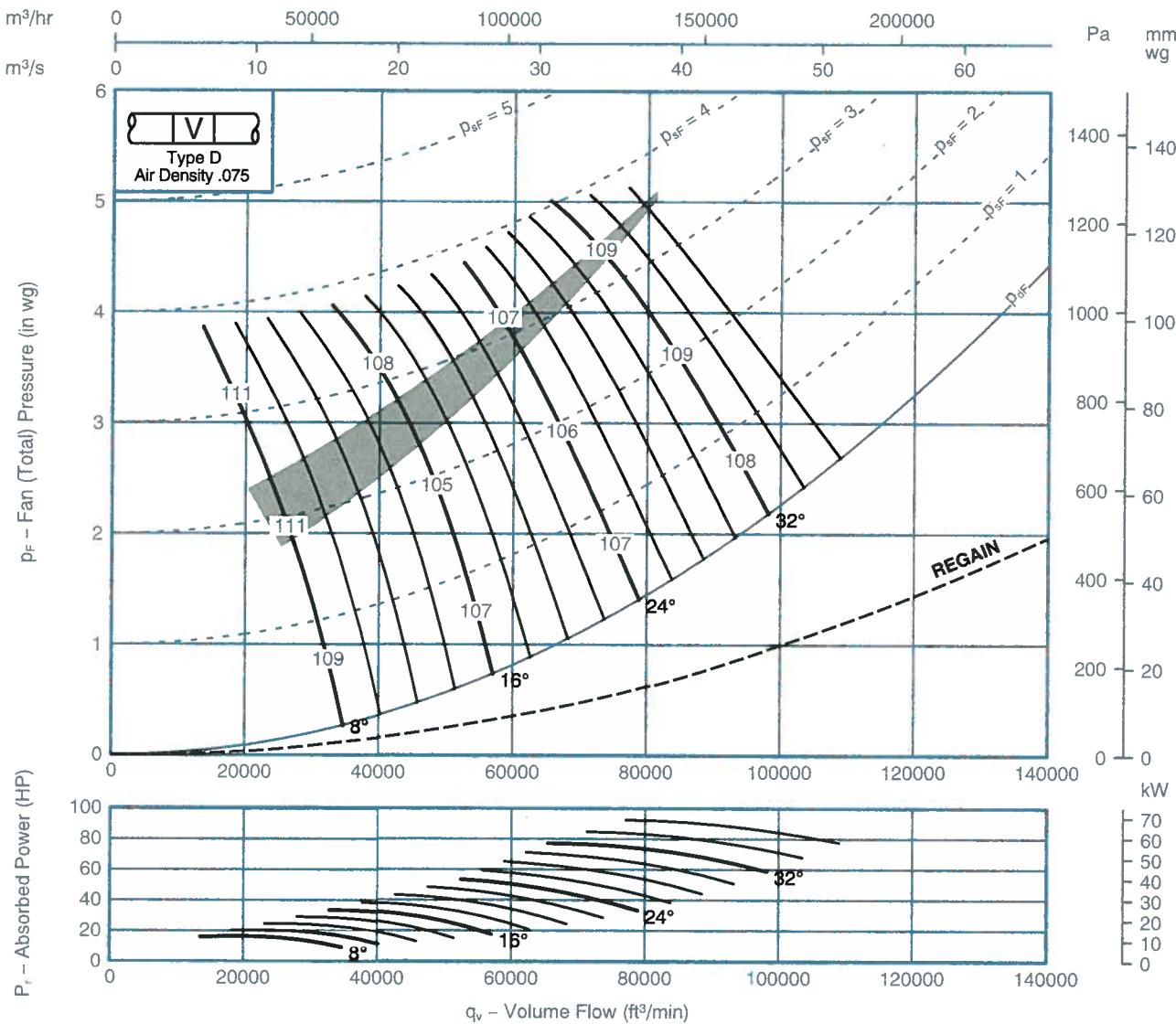
Fan Code: 140JM/50/6/12/
1400 mm 1170 RPM
12 Blades 60 Hz



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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-13	-8	-5	-5	-10	-16	-27
	-19	-15	-12	-8	-5	-7	-8	-20
16°	-15	-16	-10	-3	-5	-11	-19	-26
	-10	-12	-6	-10	-8	-8	-8	-18
24-36°	-5	-8	-7	-10	-9	-12	-16	-17
	-6	-9	-6	-9	-9	-11	-13	-19

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-12	-6	-5	-4	-8	-14	-25
	-16	-15	-10	-7	-3	-4	-6	-18
16°	-12	-14	-8	-3	-4	-11	-17	-25
	-6	-10	-4	-9	-8	-7	-5	-16
24-36°	-2	-5	-5	-9	-8	-12	-15	-17
	-3	-6	-4	-8	-8	-11	-12	-18

SK11534

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0



JM AEROFOIL

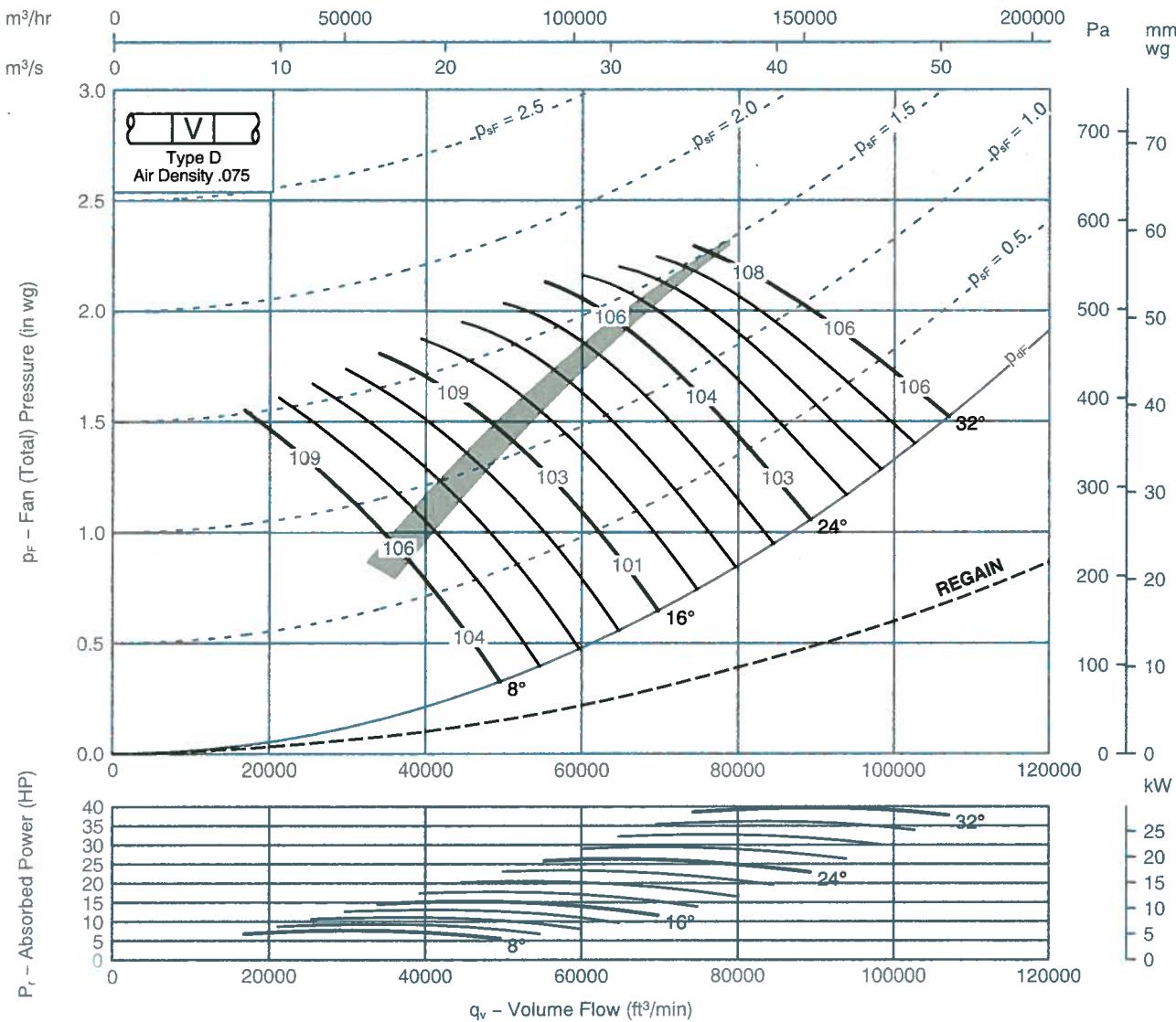
Fan Code: 160JM/40/8/6/
1600 mm 875 RPM
6 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014
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Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-20	-14	-7	-4	-8	-14	-17	-24
	-17	-14	-13	-7	-4	-7	-9	-21
16°	-15	-14	-11	-4	-5	-9	-13	-16
	-11	-9	-10	-8	-7	-8	-9	-14
24-32°	-13	-8	-7	-6	-9	--14	-17	19
	-9	-8	-9	-8	-8	-10	-12	-13

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-12	-6	-3	-7	-12	-16	-23
	-14	-12	-12	-6	-4	-6	-8	-19
16°	-12	-13	-11	-4	-5	-9	-11	-15
	-8	-8	-9	-7	-7	-8	-8	-13
24-32°	-10	-7	-6	-4	-8	-12	-15	-17
	-6	-6	-7	-6	-8	-9	-10	-11

SK11535

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0



JM AEROFOIL

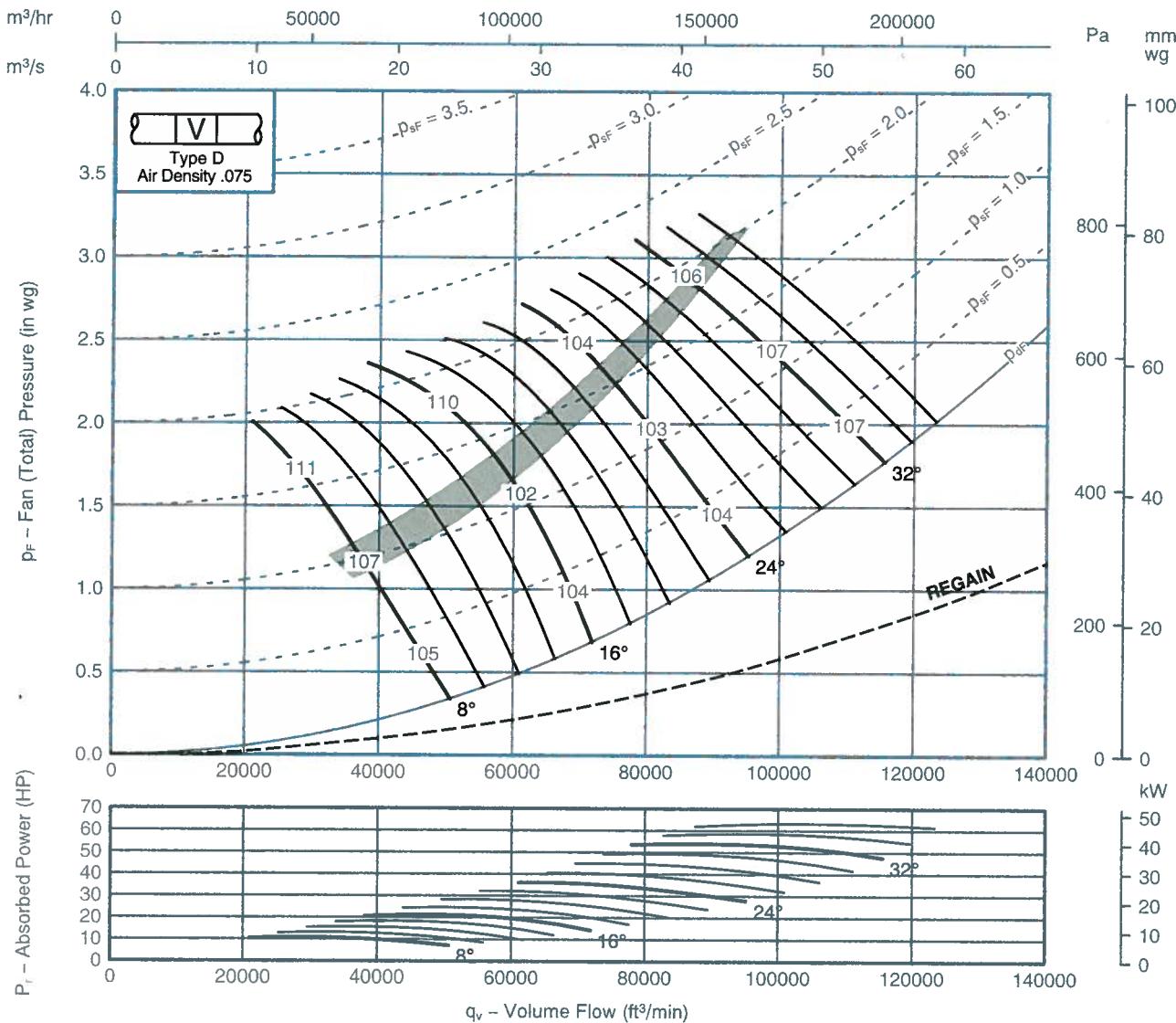
Fan Code: 160JM/40/8/9/...
1600 mm 875 RPM
9 Blades 60 Hz



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Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-23	-17	-9	-3	-7	-15	-17	-27
	-20	-14	-14	-6	-5	-7	-9	-21
16°	-19	-16	-9	-3	-7	-13	-17	-22
	-13	-7	-11	-10	-9	-7	-7	-16
24-36°	-9	-10	-10	-7	-7	-9	-12	-12
	-8	-8	-9	-8	-8	-9	-12	-13

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-20	-14	-8	-1	-6	-13	-17	-26
	-17	-11	-13	-5	-3	-6	-9	-20
16°	-15	-14	-9	-3	-6	-12	-15	-20
	-9	-4	-9	-10	-8	-7	-7	-14
24-36°	-5	-7	-8	-7	-6	-8	-10	-11
	-4	-4	-7	-7	-7	-9	-9	-12

SK11536

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0



JM AEROFOIL

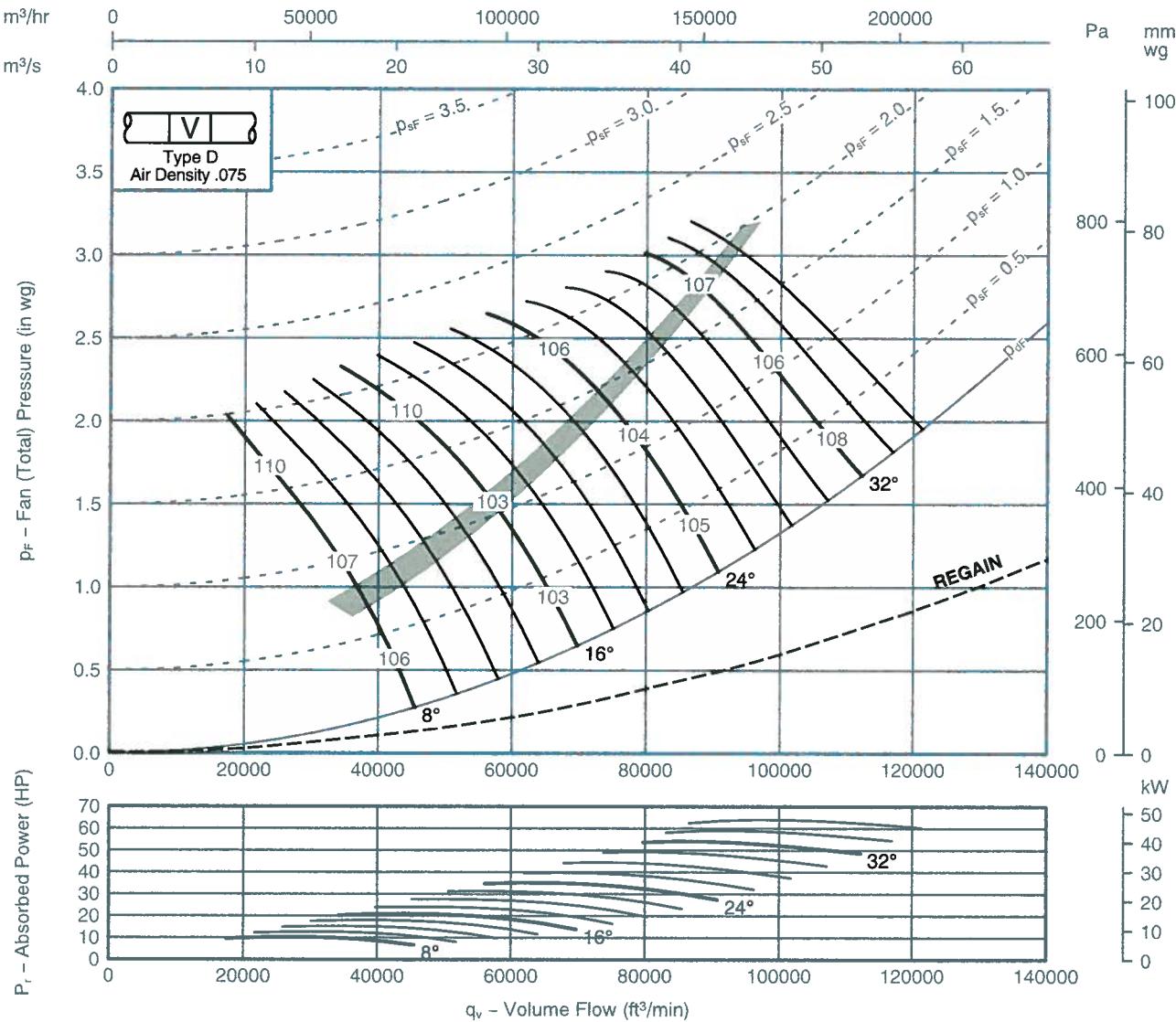
Fan Code: 160JM/50/8/9/...
1600 mm 875 RPM
9 Blades 60 Hz



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Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-19	-12	-7	-4	-7	-13	-15	-25
	-19	-16	-13	-7	-5	-7	-8	-23
16°	-18	-12	-6	-4	-8	-14	-19	-23
	-11	-9	-10	9	-8	-7	-8	-18
24-36°	-11	-9	-8	-5	-7	-11	-15	-16
	-8	-7	-9	-8	-9	-10	-12	-14

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-9	-6	-3	-6	-11	-14	-23
	-16	-12	-13	-6	-4	-6	-7	-21
16°	-14	-9	-5	-3	-7	-13	-17	-22
	-8	-6	-8	-7	-7	-5	-7	-17
24-36°	-9	-7	-7	-4	-6	-10	-14	-15
	-6	-4	-7	-7	-8	-9	-11	-13

SK11537

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0



JM AEROFOIL

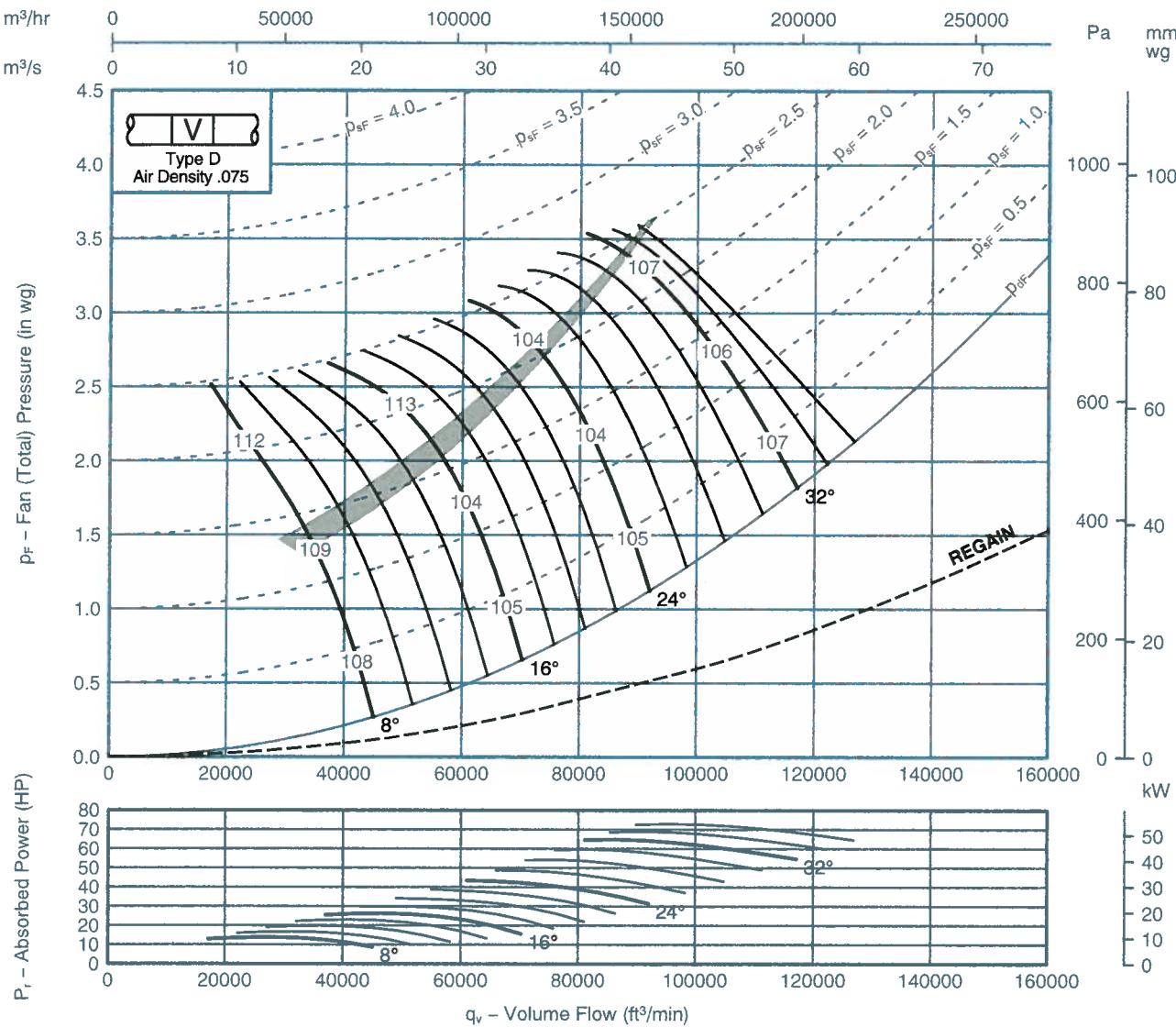
Fan Code: 160JM/50/8/12/
1600 mm 875 RPM
12 Blades 60 Hz



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Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-22	-13	-8	-2	-9	-14	-17	-27
	-22	-15	-14	-5	-5	-8	-10	-24
16°	-17	-15	-12	-4	-5	-10	-13	-21
	-13	-10	-13	-9	-7	-6	-6	-17
24-36°	-10	-11	-8	-6	-7	-10	-14	-15
	-7	-8	-10	-8	-8	-9	-11	-15

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-20	-10	-8	-2	-8	-12	-15	-26
	-19	-13	-13	-5	-3	-5	-7	-22
16°	-14	-12	-11	-4	-4	-9	-11	-20
	-10	-7	-12	-10	-7	-5	-3	-14
24-36°	-7	-7	-6	-5	-6	-10	-12	-14
	-3	-4	-8	-7	-7	-9	-10	-14

SK11538

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0



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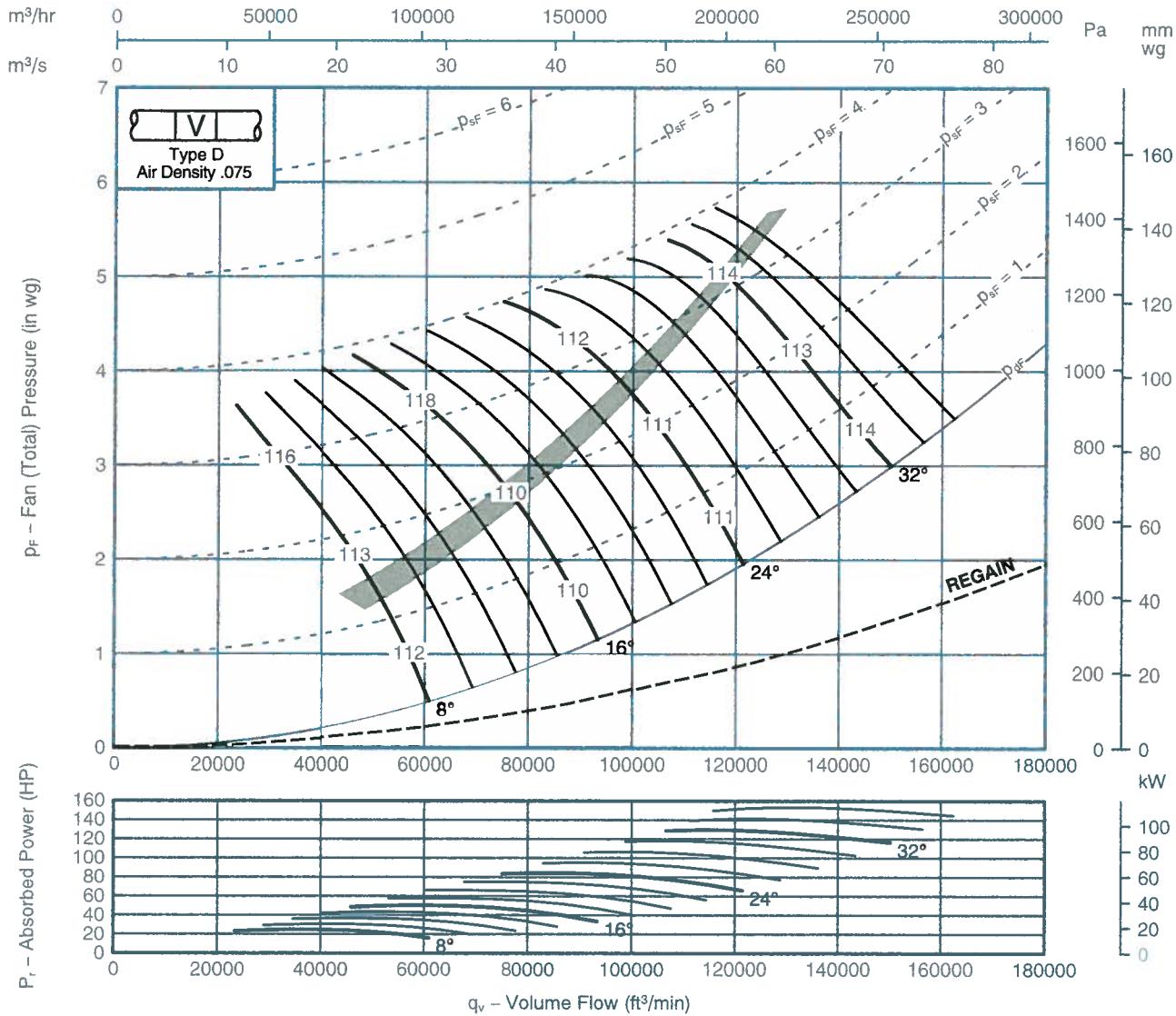
Fan Code: 160JM/50/6/9/...
1600 mm 1170 RPM
9 Blades 60 Hz



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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

Performance ratings do not include the effects of appurtenances in the airstream.



The AMCA Certified Ratings Seal applies to air performance ratings only.

Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-19	-14	-9	-4	-5	-10	-13	-21
	-19	-17	-14	-10	-5	-6	-6	-17
16°	-17	-14	-8	-4	-6	-11	-16	-21
	-11	-11	9	-9	-8	-7	-6	-15
24-36°	-11	-12	-8	-5	-7	-9	-14	-15
	-8	-9	-7	-8	-9	-9	-11	-13

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-11	-8	-3	-5	-9	-13	-20
	-16	-14	-13	-9	-4	-5	-5	-15
16°	-14	-12	-7	-3	-5	-10	-15	-20
	-8	-8	-7	-8	-8	-6	-5	-14
24-36°	-8	-9	-7	-5	-6	-8	-13	-14
	-5	-7	-5	-7	-8	-8	-10	-12

SK11539

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0



JM AEROFOIL

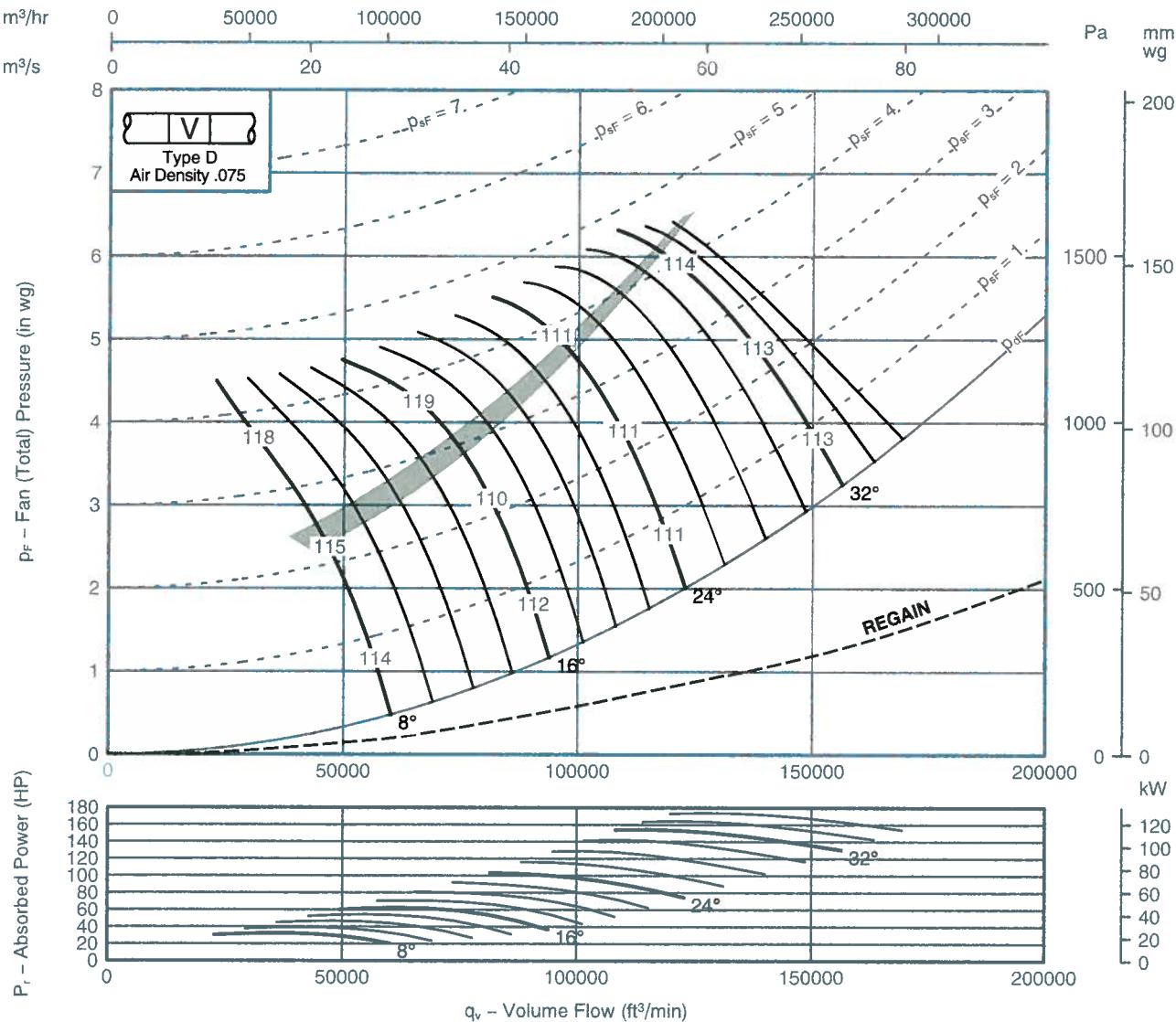
Fan Code: 160JM/50/6/12/
1600 mm 1170 RPM
12 Blades 60 Hz



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Performance shown is for installation type D - Ducted inlet, Ducted outlet.

Performance ratings do not include the effects of appurtenances in the airstream.



The AMCA Certified Ratings Seal applies to air performance ratings only.

Sound Data: single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-23	-16	-10	-3	-5	-12	-15	-24
	-22	-19	-14	-8	-4	-7	-12	-18
16°	-16	-18	-13	-6	-4	-7	-12	-18
	-12	-15	-9	-11	-8	-7	-5	-13
24-36°	-9	-12	-9	-7	-7	-9	-12	-14
	-7	-10	-8	-9	-9	-9	-11	-14

Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-20	-15	-8	-3	-4	-10	-13	-22
	-19	-18	-11	-7	-13	-4	-5	-16
16°	-13	-16	-11	-6	-3	-7	-9	-17
	-9	-13	-7	-11	-7	-6	-2	-10
24-36°	-6	-9	-7	-6	-6	-8	-11	-13
	-3	-6	-5	-8	-8	-9	-9	-13

SK11540

End Reflection Correction (dB)							
63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0

JM AEROFOIL

Fan sizes 31 through 45

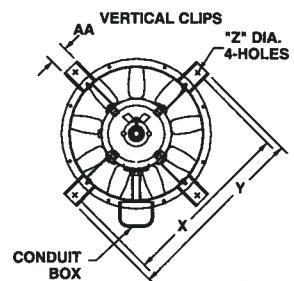
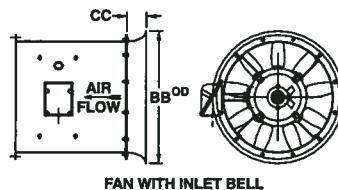
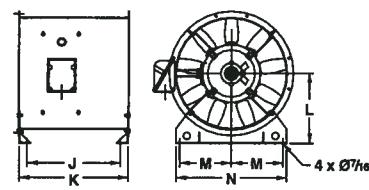
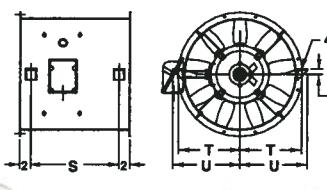
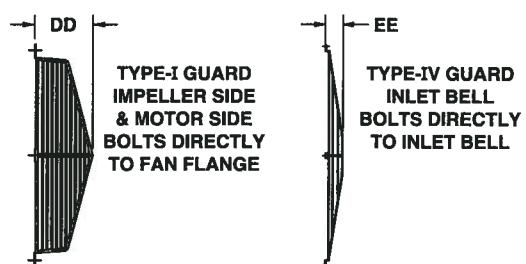
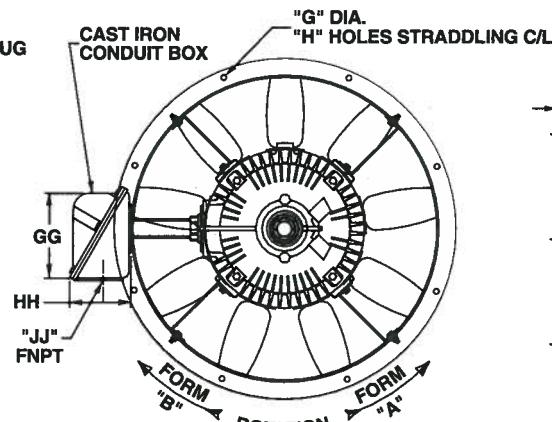
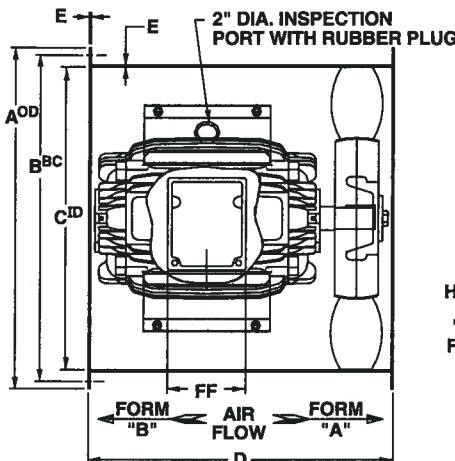
Direct Drive with Pad Mounted Motors

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FRAME SIZES 140P THROUGH 210P HAVE
SEALED, NON-RELUBRICABLE BEARINGS.



FAN SIZE	FRAME	HUB DIA.	FAN						MOUNTING FEET						HORIZONTAL CLIPS			VERTICAL CLIPS			INLET BELL			GUARDS			APPROX. FAN WT. NO MOTOR	MOTOR WEIGHT LBS	FF	GG	HH	JJ	
			A	B	C	D	E	G	H	J	K	L	M	N	S	T	U	X	Y	Z	AA	BB	CC	DD	EE	FF		GG	HH	JJ			
31	140P	6.3	15½	14	12½	16	.105	7½	8	12¾	15¼	7¾	5¼	12½	12	7½	8½	17	19	7½	2	14½	2%	5%	1%	38	50	4%	6½	3¼	¾		
35	140P	6.3/8.0	16½	15½	13½	16	.105	7½	8	12¾	15¼	8½	6	14	12	8½	9½	19	21	7½	2	16½	3½	5%	1%	47	50	4%	6½	3¼	¾		
	180P	8.0																									85						
	140P	6.3/8.0	19½																									50					
	180P	8.0/10.0		17½	15½	16	.105	½	8	12%	15%	9½	6½	15¾	12	9½	10½	21	23	7½	2	18½	3½	5%	1%	67	85	4%	6½	3¼	¾		
	210P	10.0	19½																									73	160	5%	7½	4¼	1
	140P	6.3/8.0	21½																									50					
	180P	8.0/10.0		19½	17½	16	.105	½	8	12%	15%	11	7½	17½	12	10	11	24	26	½	3	21½	3½	5%	1%	73	85	4%	6½	3¼	¾		
	210P	10.0	21½																									83	160	5%	7½	4¼	1
▼ METRIC UNITS (mm) ▼																																	
31	140P	160	385	355	315	406	2.5	11.1	8	324	400	200	133	318	305	186	211	432	483	11.1	51	379	65	137	30	17	22.7	122	165	83			
	140P	160/200	425	395	355	406	2.5	11.1	8	324	400	225	152	356	305	206	232	483	533	11.1	51	423	85	137	30	21	22.7	122	165	83			
	180P	200																										38.6					
	140P	160/200	495	450	400	406	2.5			321	397	250	175	400	305		230	256	533	584	11.1	51	480	80	137	30	30	22.7	122	165	83		
	180P	200/250								508	3.4					422	498												33	72.6	136	198	108
	210P	250	495																									22.7	122	165	83		
	140P	160/200	545	500	450	406	2.5			321	397	280	200	451	305		254	279	610	660	12.7	76	536	95	137	30	33	22.7	122	165	83		
	180P	200/250								508	3.4					422	498												38.6	122	165	83	
	210P	250	545																									72.6	136	198	108		

SEE INCH DIMENSIONS

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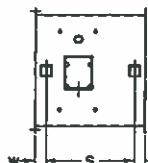
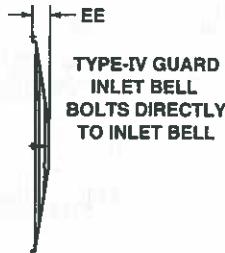
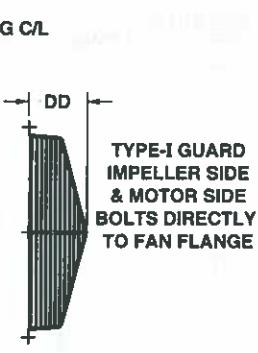
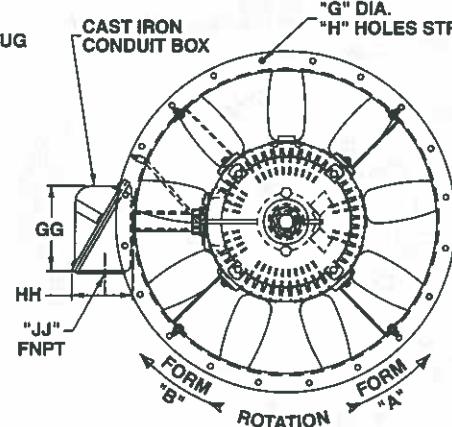
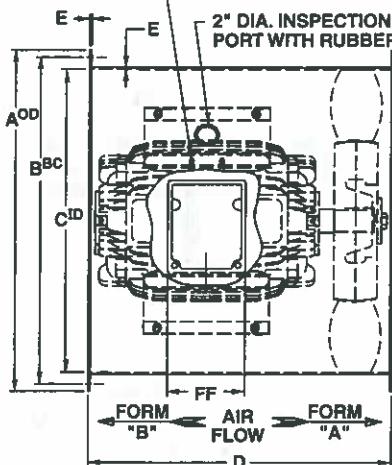
Fan sizes 140 & 160 with Pad Mounted Motors

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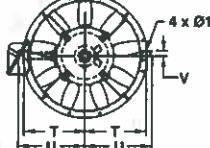
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**EXTERNAL MOTOR BEARING GREASE FITTINGS SUPPLIED ON
FRAME SIZES 280P AND LARGER, FRAME SIZES 250P AND
SMALLER HAVE SEALED, NON-RELUBRICABLE BEARINGS.**

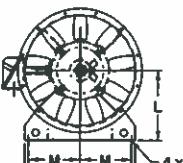


FAN WITH HORIZONTAL SUSPENSION CLIPS



10

FAN WITH HORIZONTAL MOUNTING FEET



**NOTE: FOR VERTICAL CLIP
ARRANGEMENT SEE DWG# SPB4122F**



U.S. Sales office and factory:

**8.5. Sales Office at
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**2000 Symmes Road
Fairfield, Ohio 45014**

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Fax: 513-870-8249

Canadian Sales Office

Woods Air Movement, LTD.

401 Traders Blvd. East
Mississauga, Ontario

Mississauga, Ontario
Phone: 905-591-85

Represented by:

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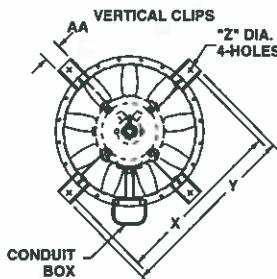
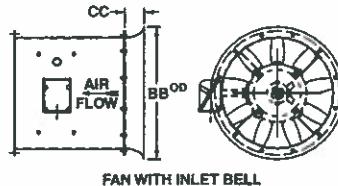
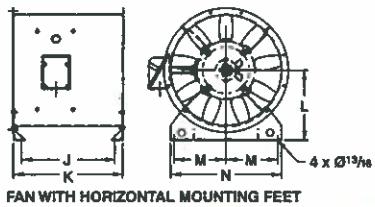
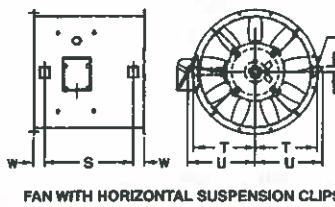
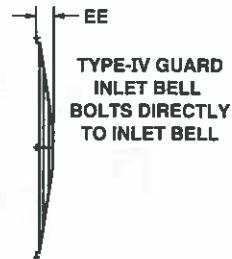
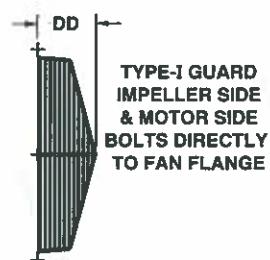
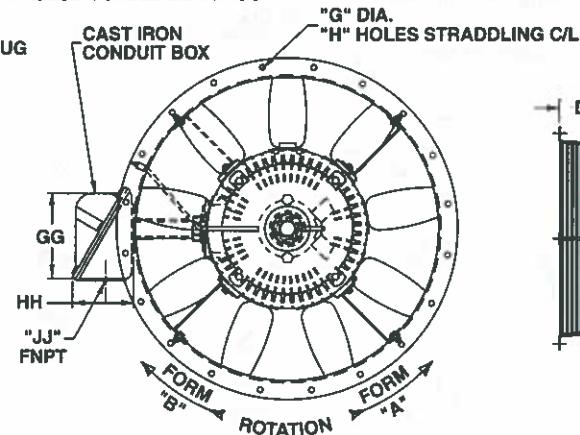
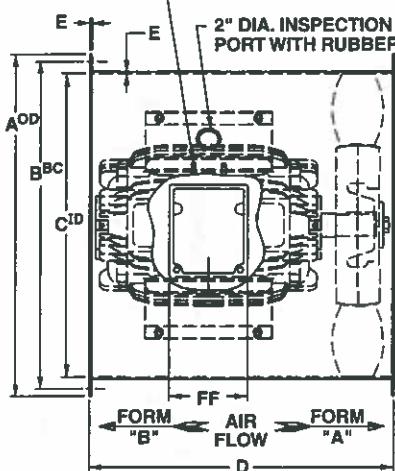
Fan sizes 140 & 160
with Pad Mounted Motors

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FRAME SIZES 280P AND LARGER, FRAME SIZES 250P AND
SMALLER HAVE SEALED, NON-RELUBRICABLE BEARINGS.



NOTE: FOR VERTICAL CLIP ARRANGEMENT SEE DWG# SPB4122F

FAN SIZE	FRAME SIZE	HUB DIA.	FAN					MOUNTING FEET					HORIZONTAL CLIPS				VERTICAL CLIPS				INLET BELL			GUARDS			APPROX. FAN WT. NO MOTOR	MOTOR WEIGHT LBS	FF	GG	HH	JJ			
			A	B	C	D	E	G	H	J	K	L	M	N	S	T	U	V	W	X	Y	AA	BB	CC	DD	EE									
140	250P	12.5/16.0					30			24 1/2	29 1/2				22													755	380	5%	7%	4 1/4	1 1/4		
	280P		61 1/2	57 1/2	55 1/2		33	1/4	1 1/2	20	27 1/2	32 1/2	35 1/2	25 1/2	55 1/2	25	29 1/2	31 1/2	2	4	68	71	3/4	5	66 1/2	99 1/2	6 1/2	2 1/2	825	560	7 1/2	10	6	2	
	320P		16.0/20.0																										800					3	
	360P																												960	1170				3	
	400P																												1712	2300				3	
	440P		20.0																																
160	250P	12.5/16.0					30			23 3/4	29 1/2				22														890	380	5%	7%	4 1/4	1 1/4	
	280P		69	66 1/2	63	33	33	1/4	1 1/2	24	26 1/2	32 1/2	38 1/2	29 1/2	63	25	33 1/2	35 1/2	2	4	76	79	3/4	5	75 1/2	10 1/2	6 1/2	2 1/2	965	560	7 1/2	10	6	2	
	320P		16.0/20.0																											800					3
	360P																																		
	400P		20.0																											1115	1170				3
	440P																													2055	2300				3
▼ METRIC UNITS (mm) ▼																														(kg)					
140	250P	315/400					762				622	749				559														342	172	136	198	108	
	280P	400/500	1553	1470	1400	838	6.4	17.5	20	699	826	900	649	1400	635	757	808	51	102	1727	1803	191	127	1691	249	157	60	374	252	197	254	152	A		
	320P									826	953					762														435	531	260	394	216	
	360P		500				965			1130	1257					1067														776	1043				
	400P						1270																												
160	250P	315/400					762			603	749				559														404	172	136	198	108		
	280P	400/500	1753	1680	1600	838	6.4	17.5	24	679	826	968	749	1600	635	857	908	51	102	1930	2007	19.1	127	1911	273	157	60	438	252	197	254	152			
	320P									806	953					762														506	531	260	394	216	
	360P		500				1270			1111	1257					1067													932	1043					
	400P																																		
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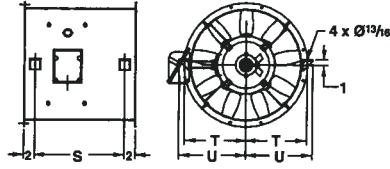
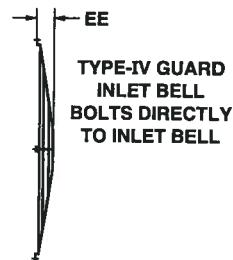
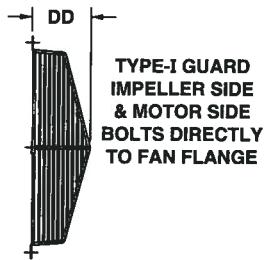
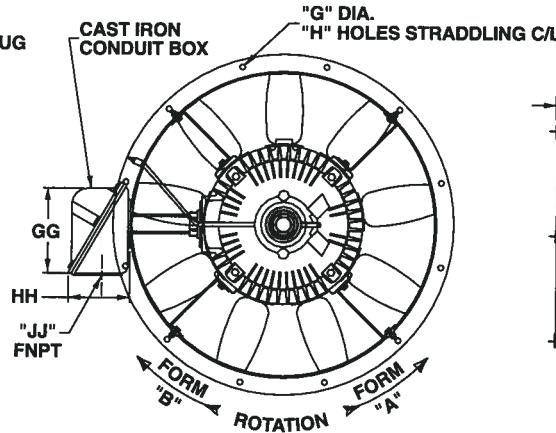
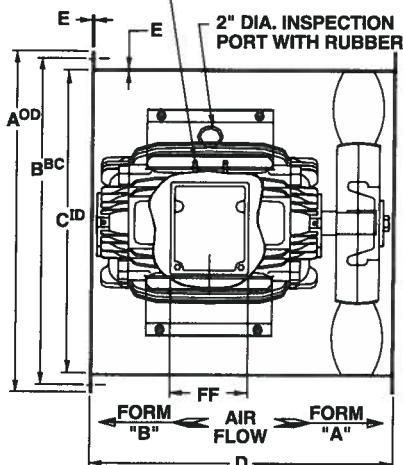
Fan sizes 50 through 63

Direct Drive with Pad Mounted Motors

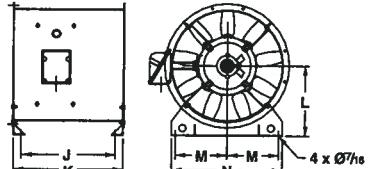


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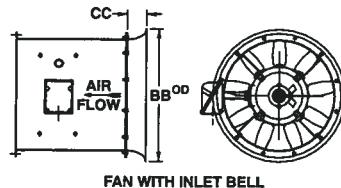
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FRAME SIZES 280P AND LARGER, FRAME SIZES 250P AND
SMALLER HAVE SEALED, NON-RELUBRICABLE BEARINGS.**



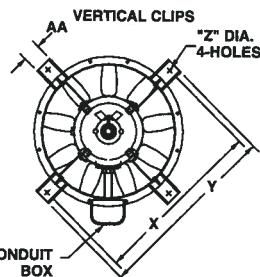
FAN WITH HORIZONTAL SUSPENSION CLIPS



FAN WITH HORIZONTAL MOUNTING FEET



FAN WITH INLET BELL



**NOTE: FOR VERTICAL CLIP
ARRANGEMENT SEE DWG# SPB4122F**

Fan Size	Frame Size	Hub Dia.	Fan				Mounting Feet				Horizontal Clips			Vertical Clips			Inlet Bell Guards			Approx. Fan Wt. No Motor	Motor Weight Lbs	FF																														
			A	B	C	D	E	G	H	J	K	L	M	N	S	T	U	X	Y	Z	AA	BB	CC	DD	EE	GG	HH	JJ																								
50	140P	6.3/8.0	23%	22½	19½	16	.135	½	12	13	15¼	12%	8%	19%	12	10½	11½	27	29	½	3	23%	3½	5%	1½	80	50	4½	6½	3¼	¾																					
	180P	8.0/10.0																								85	5½	7½	4½	1																						
	210P	10.0/12.5																								98	160	5%	7%	4½	1																					
	250P	12.5/16.0																								210	380	5%	7½	4½	1½																					
	280P	1.25/16.0																								210	380	5%	7½	4½	1½																					
56	140P	6.3/8.0	25%	24%	22½	16	.135	½	12	13	15¼	14	10	22	12	12½	13½	30	32	½	3	26%	3½	5%	1½	89	50	4½	6½	3¼	¾																					
	180P	8.0/10.0																								85	5½	7%	4½	1																						
	210P	10.0/12.5																								117	160	5%	7%	4½	1																					
	250P	12.5/16.0																								250	380	5%	7½	4½	1½																					
	280P	1.25/16.0																								250	380	5%	7½	4½	1½																					
63	140P	6.3/8.0	28%	27½	24%	16	.135	½	12	11½	15¼	15%	11½	24%	12	13½	14½	34	36	½	3	29%	4½	5%	1½	101	50	4½	6½	3¼	¾																					
	180P	8.0/10.0																								85	5½	7%	4½	1																						
	210P	10.0/12.5																								131	160	5%	7%	4½	1																					
	250P	12.5/16.0																								280	380	5%	7%	4½	1½																					
	280P	1.25/16.0																								303	560	7½	10	6	2																					
	320P	16.0																								800	10	6	2	3																						
	360P	16.0																								303	560	7½	10	6	2																					
▼ METRIC UNITS (mm) ▼																										(kg)																										
50	140P	160/200	595	560	500	406	3.4	12.7	12	330	400	314	225	502	406	305	279	304	686	737	12.7	76	600	87	137	30	36	22.7	122	165	83																					
	180P	200/250																								38.6	72.6	136	198	108																						
	210P	250/315																								44	72.6	136	198	108																						
	250P	315/400																								95	172	136	198	108																						
	280P	315/400																								40	22.7	122	165	83																						
56	140P	160/200	656	620	560	406	3.4	12.7	12	330	400	356	254	559	406	305	309	334	762	813	12.7	76	668	100	137	50	40	22.7	122	165	83																					
	180P	200/250																								53	72.6	136	198	108																						
	210P	250/315																								114	172	136	198	108																						
	250P	315/400																								137	252	197	254	152																						
	280P	315/400																								363	363	197	254	152																						
63	140P	160/200	725	689	630	406	3.4	12.7	12	292	400	402	289	630	660	344	369	864	914	12.7	76	757	108	137	50	46	22.7	122	165	83																						
	180P	200/250																								59	72.6	136	198	108																						
	210P	250/315																								127	172	136	198	108																						
	250P	315/400																								137	252	197	254	152																						
	280P	315/400																								363	363	197	254	152																						
	320P	400		738																						137	252	197	254	152																						
	360P	400																								363	363	197	254	152																						
SEE INCH DIMENSIONS ▾																																																				

JM AEROFOIL

Fan sizes 71 & 80

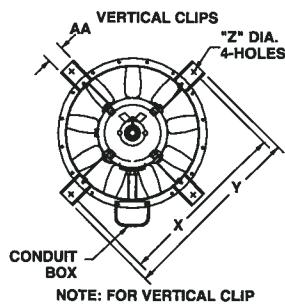
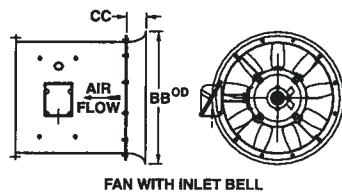
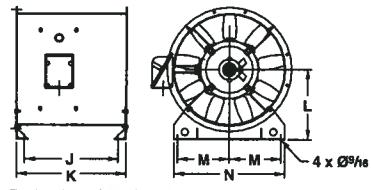
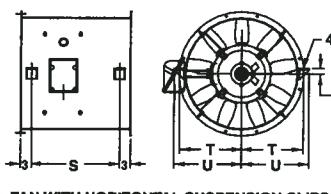
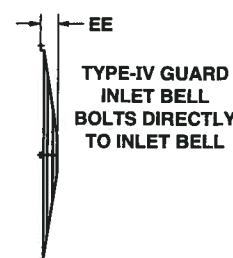
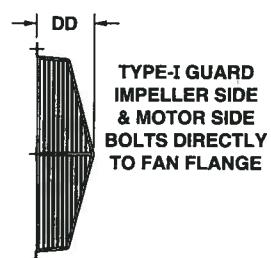
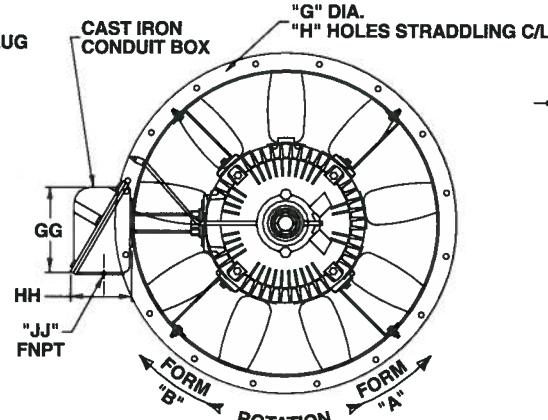
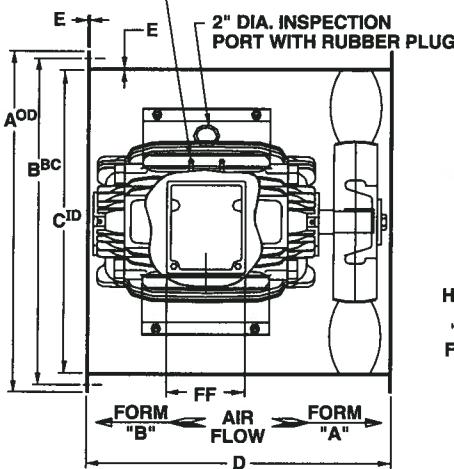
Direct Drive with Pad Mounted Motors

AMERICAN
FAN
COMPANY®

WOODS
U.S.A. DIVISION

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EXTERNAL MOTOR BEARING GREASE FITTINGS SUPPLIED ON
FRAME SIZES 280P AND LARGER, FRAME SIZES 250P AND
SMALLER HAVE SEALED, NON-RELUBRICABLE BEARINGS.



NOTE: FOR VERTICAL CLIP
ARRANGEMENT SEE DWG# SPB4122F

FAN SIZE	FRAME SIZE	HUB DIA.	FAN					MOUNTING FEET					HORIZONTAL CLIPS			VERTICAL CLIPS			INLET BELL			GUARDS			APPROX. FAN WT. NO MOTOR	MOTOR WEIGHT LBS	FF	GG	HH	JJ																													
			A	B	C	D	E	G	H	J	K	L	M	N	S	T	U	X	Y	Z	AA	BB	CC	DD	EE																																		
71	180P	8.0/10.0	31 1/16			16	.135			11 1/2	15 1/4			10	15 1/2	17 1/2									112	85	4 1/4	6 1/2	3 1/4	3/4																													
	210P	10.0/12.5																							144	160	5 1/2	7 1/2	4 1/4	1																													
	250P	12.5/16.0	30 5/16	27 1/2	30	1/2	16	25 1/4	29 1/2	17 1/4	13	27 1/8		24	15 1/2	17 1/2		38	40	1/2	3	33 1/4	5	5 1/2	13 1/2	313	380	5 1/2	7 1/2	4 1/4	1 1/4																												
	280P	12.5/16.0																							335	560	7 1/2	10	6	2																													
	320P	16.0	32 1/2		33	1/4		28 1/4	32 1/2		27			27										800	7 1/2	10	6	3	3																														
	360P																								128	85	4 1/4	6 1/2	3 1/4	3/4																													
80	180P	8.0/10.0	35 1/4			16	.135			11 1/2	15 1/4			10	17 1/2	18 1/2		38	40	1/2	3	33 1/4	5	5 1/2	13 1/2	128	85	4 1/4	6 1/2	3 1/4	3/4																												
	210P	10.0/12.5																							160	160	5 1/2	7 1/2	4 1/4	1																													
	250P	12.5/16.0	33 1/16	31 1/2	30	1/2	16	25 1/4	29 1/2	19 1/4	14 1/4	31 1/2		24	17 1/2	19		42	44	1/2	4	37 1/4	5 1/4	5 1/2	13 1/2	349	380	5 1/2	7 1/2	4 1/4	1 1/4																												
	280P	16.0																							372	560	7 1/2	10	6	2																													
	320P																								800	7 1/2	10	6	3	3																													
▼ METRIC UNITS (mm) ▼																																																											
71	180P	200/250	805			406	3.4			292	400			254	396	434									51	38.6	122	165	83																														
	210P	250/315																							65	72.6	136	198	108																														
	250P	315/400	818			770	710	6.4		12.7	16	641	749	451	330	708	610	399	437						965	1016	12.7	76	857	126	137	50	142	172	136	198	108																						
	280P	400																							686						152	252	197	254	152																								
	320P																								718	826						58	38.6	122	165	83																							
	360P																								686						73	72.6	136	198	108																								
80	180P	200/250	895			406	3.4			292	400			254	441	479									1067	1118	12.7	102	957	134	137	50	158	172	136	198	108																						
	210P	250/315																							502	375	800	610	445	483	686																												
	250P	315/400	908			860	800	6.4		12.7	16	641	749	451	330	708	610	445	483									965	1016	12.7	76	857	126	137	50	169	252	197	254	152																			
	280P	400																							838						363																												
	320P																																																										

SEE INCH DIMENSIONS ^

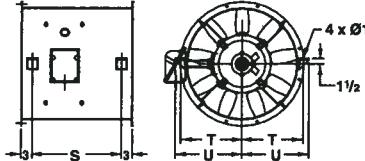
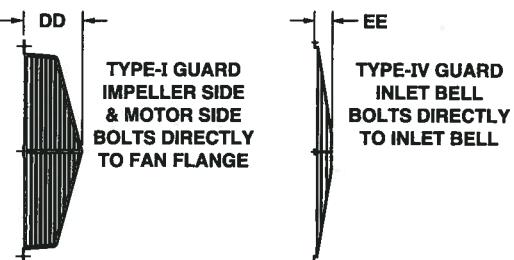
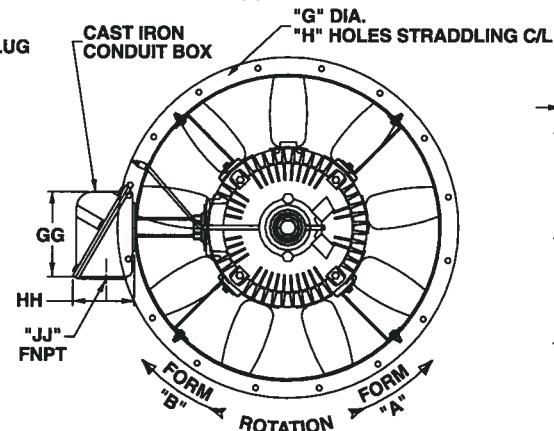
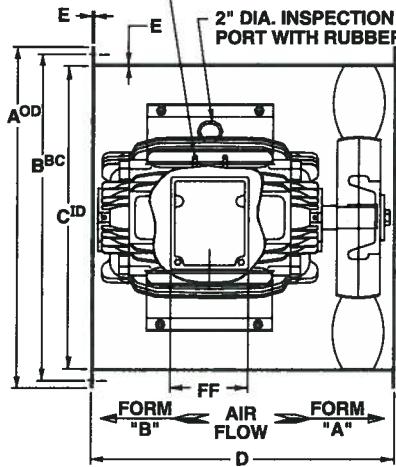
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Fan sizes 90 & 100 Direct Drive with Pad Mounted I

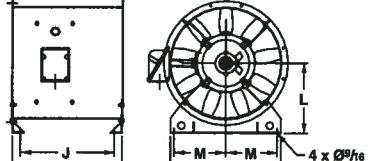


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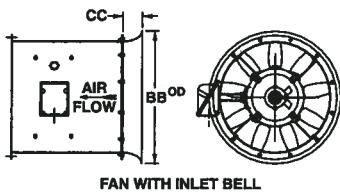
**EXTERNAL MOTOR BEARING GREASE FITTINGS SUPPLIED ON
FRAME SIZES 280P AND LARGER, FRAME SIZES 250P AND
SMALLER HAVE SEALED, NON-RELUBRICABLE BEARINGS.**



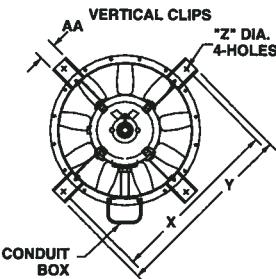
FAN WITH HORIZONTAL SUSPENSION CLIPS



FAN WITH HORIZONTAL MOUNTING FEET



FAN WITH INLET BELL



**NOTE: FOR VERTICAL CLIP
ARRANGEMENT SEE DWG# SPB4122F**

Fan Size	Frame Size	Hub Dia.	Fan					Mounting Feet					Horizontal Clips			Vertical Clips			Inlet Bell Guards			Approx. Fan Wt. No Motor		Motor Weight Lbs									
			A	B	C	D	E	G	H	J	K	L	M	N	S	T	U	X	Y	Z	AA	BB	CC	DD	EE	FF	GG	HH	JJ				
90	180P	10.0	39 $\frac{1}{16}$	38 $\frac{1}{4}$	35 $\frac{1}{16}$	16	$\frac{1}{4}$	16	11 $\frac{1}{2}$	15 $\frac{1}{4}$	22	16 $\frac{1}{4}$	35 $\frac{1}{16}$	27	10	19 $\frac{1}{2}$	20 $\frac{1}{2}$	47	50	$\frac{1}{2}$	4	42 $\frac{1}{2}$	5 $\frac{1}{2}$	5 $\frac{1}{2}$	13 $\frac{1}{2}$	143	85	4 $\frac{1}{2}$	6 $\frac{1}{2}$	3 $\frac{1}{4}$	3 $\frac{1}{4}$		
	210P	10.0/12.5				20			15 $\frac{1}{2}$	19 $\frac{1}{4}$					14	19 $\frac{15}{16}$	20 $\frac{1}{2}$							178	160	5 $\frac{1}{2}$	7 $\frac{1}{2}$	4 $\frac{1}{4}$	1				
	250P					30			25 $\frac{1}{4}$	29 $\frac{1}{2}$					24									389	380	5 $\frac{1}{2}$	7 $\frac{1}{2}$	4 $\frac{1}{4}$	1 $\frac{1}{4}$				
	280P	12.5/16.0				33			28 $\frac{1}{4}$	32 $\frac{1}{2}$					27									416	560	7 $\frac{1}{4}$	10	6	2				
	320P					33																	800										
	360P	16.0																									3 $\frac{1}{2}$						
100	180P	10.0	43 $\frac{3}{8}$	42 $\frac{1}{8}$	39 $\frac{1}{8}$	16	$\frac{1}{4}$	16	10 $\frac{1}{2}$	15 $\frac{1}{4}$	24 $\frac{1}{8}$	19	40	32	10	21 $\frac{1}{2}$	22 $\frac{1}{2}$	51	54	$\frac{1}{2}$	4	47 $\frac{1}{2}$	6 $\frac{1}{2}$	5 $\frac{1}{2}$	13 $\frac{1}{2}$	187	85	4 $\frac{1}{2}$	6 $\frac{1}{2}$	3 $\frac{1}{4}$	3 $\frac{1}{4}$		
	210P	10.0/12.5				20			14 $\frac{1}{2}$	19 $\frac{1}{4}$					14			241						160	5 $\frac{1}{2}$	7 $\frac{1}{2}$	4 $\frac{1}{4}$	1					
	250P					30			24 $\frac{1}{4}$	29 $\frac{1}{2}$					24			428						380	5 $\frac{1}{2}$	7 $\frac{1}{2}$	4 $\frac{1}{4}$	1 $\frac{1}{4}$					
	280P	12.5/16.0				33			27 $\frac{1}{4}$	32 $\frac{1}{2}$					27			482						560	7 $\frac{1}{4}$	10	6	2					
	320P					33			32 $\frac{1}{4}$	37 $\frac{1}{2}$								800															
	360P	16.0/20.0				38																					3 $\frac{1}{2}$						
	400P	20.0																									3 $\frac{1}{2}$						

90	180P	250	1008	970	900	406	3.4	14.3	292	400	559	425	900	254	491	529	1194	1270	12.7	102	1077	150	137	50	65	38.6	122	165	83
	210P	250/315				508			394	502				356											81	72.6	136	198	108
	250P																												
	280P	315/400				762			641	749				610											176	172	136	198	108
	320P													495															
	360P	400				838			718	826				686											189	252			
	180P	250				406			276	397				254											85	38.6	122	165	83
	210P	250/315				508			378	498				356											109	72.6	136	198	108
	250P													610											194	172	136	198	108
	280P	315/400				762			629	749				686											219	252			
	320P	400/500							705	826				838											363	197	254	152	
	360P	400/500							832	953				965											241	531	260	394	216