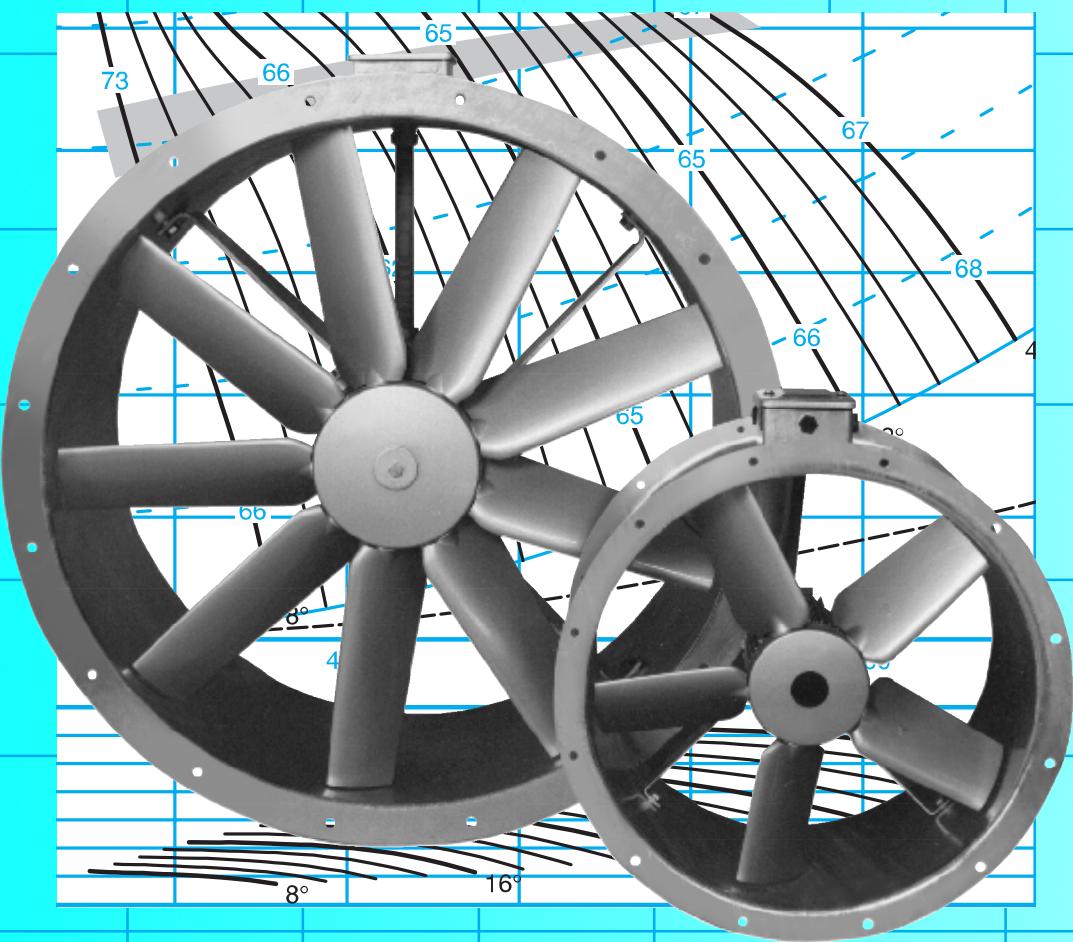


Bulletin JMA60-05  
July 2005



JMA60-05  
AEROFAN  
WIRING



60HZ



# JM AEROFOIL

## Contents & Introduction



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

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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: 2000 standards.

## 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



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### 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.

### 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



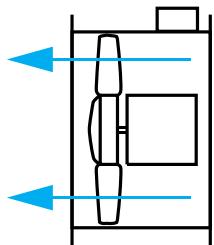
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The direction of airflow through the fan and the fan mounting position are defined as the "Form of running".

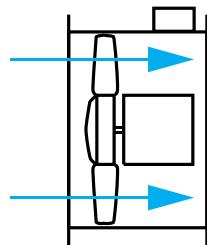
On each chart is shown the standard Form(s) of running for that particular fan, when mounted horizontally. For vertical operation add suffix "U" for airflow up, or suffix "D" for airflow down.

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.

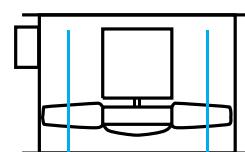
Arrows indicating correct rotation and direction of airflow are incorporated in the duct nameplate.



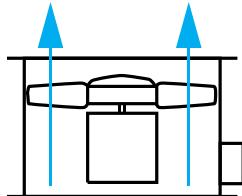
**Form A**



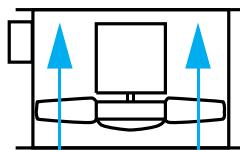
**Form B  
(STANDARD)**



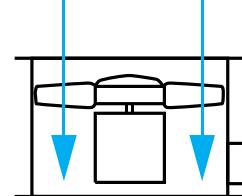
**Form AD**



**Form AU**



**Form BU**



**Form BD**

### Mounting

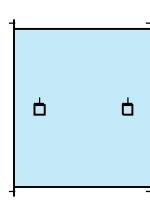
Horizontal- JM Aerofoil fans may be floor or ceiling mounted with optional mounting feet. They may also be ceiling suspended with optional horizontal suspension clips.



Mounting feet for ceiling suspension

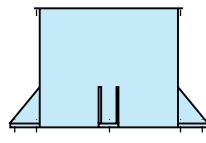


Mounting feet for floor mounting



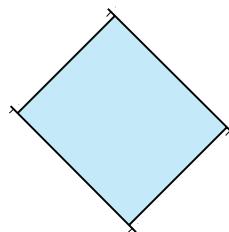
Horizontal angle suspension clips

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.



# JM AEROFOIL

## Fan Specifications



2933 Symmes Road, Fairfield, Ohio 45014  
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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.

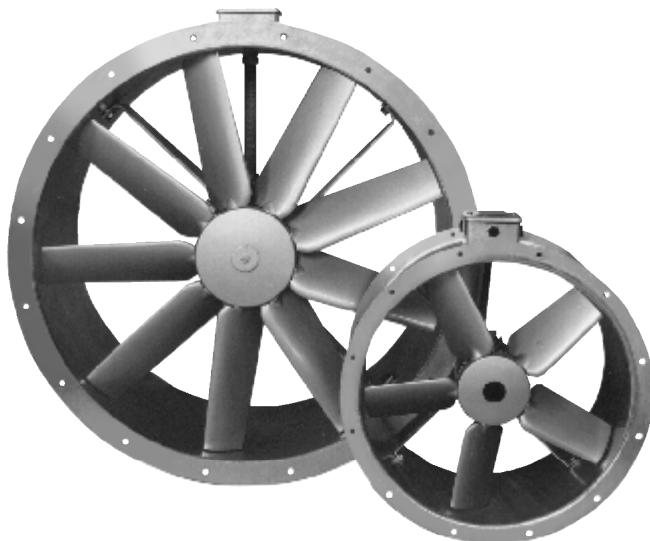
### Also Available...

#### **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.



# JM AEROFOIL

## 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:

- a. Volume and pressure
- b. Fan diameter
- c. Power consumption (annual operating cost)
- d. Sound levels
- e. 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.

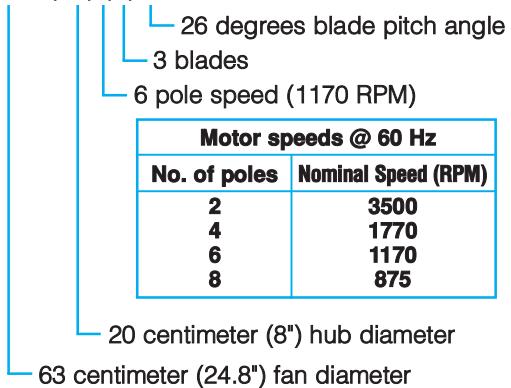
#### Selection Example

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

Freq.	85	76	75	69	66	64	60	57
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

Fan Sound Power Level

#### 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



# JM AEROFOIL

Fan Code: 63JM/20/6/3/...

630 mm 1170 RPM

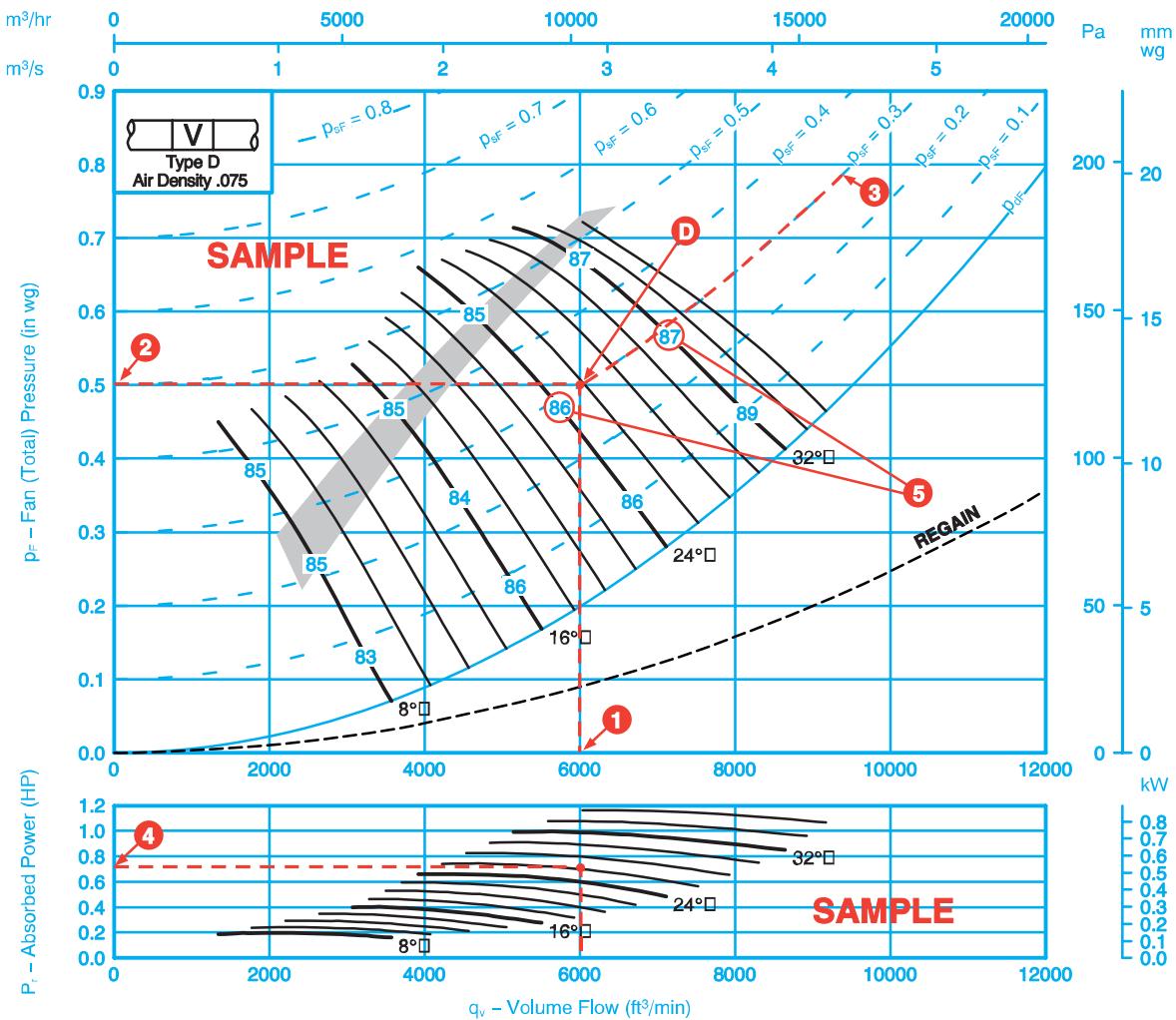
3 Blades 60 Hz



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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.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Center Frequency (Hz)								Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8°	-7	-10	-5	-6	-12	-17	-24	-31	8°	-5	-10	-5	-5	-12	-17	-23	-28
	-2	-11	-8	-10	-13	-15	-20	-27		-1	-11	-8	-10	-13	-14	-19	-25
16°	-6	-10	-4	-8	-14	-16	-25	-31	16°	-4	-10	-4	-8	-14	-16	-24	-28
	-1	-11	-11	-17	-19	-19	-24	-30		0	-11	-11	-17	-19	-19	-23	-28
24-36°	-2	-9	-9	-14	-16	-19	-22	-26	24-36°	-1	-9	-9	-14	-16	-19	-20	-24
	-1	-10	-11	-17	-20	-22	-26	-29		0	-10	-11	-16	-20	-22	-24	-27

SK10305

6

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

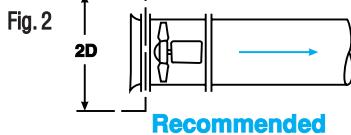
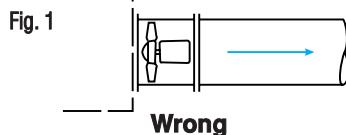
7

# JM AEROFOIL Installation Recommendations

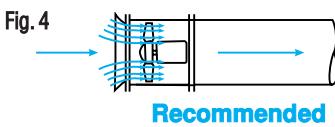
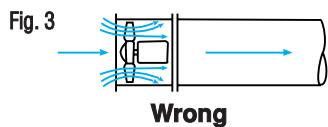


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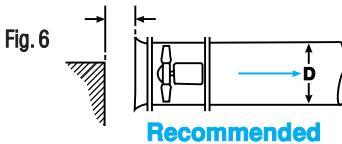
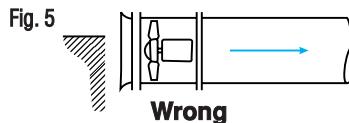
A sharp-edged fan inlet orifice reduces fan performance.



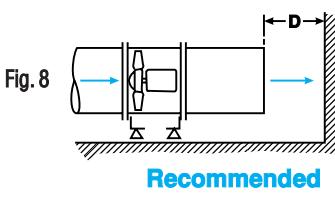
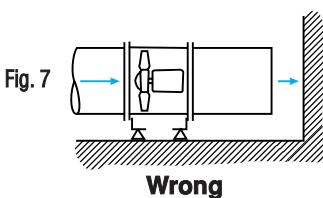
A flanged fan inlet starves the impeller blade tips of air reducing performance and increasing noise.



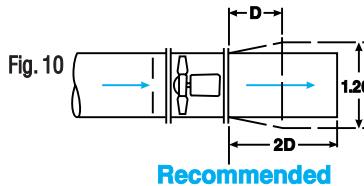
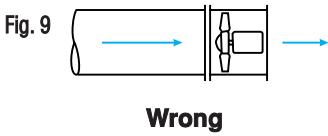
Avoid obstructions close to fan inlets. Part of impeller is starved of air.



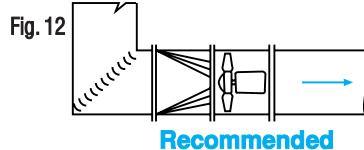
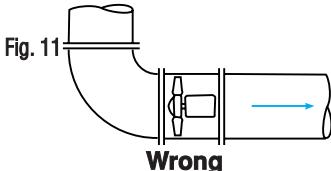
Avoid obstruction close to the fan outlet.



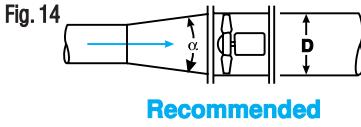
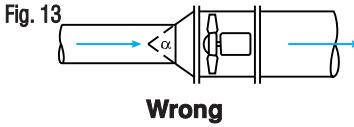
Avoid fan terminating the discharge end of a system.



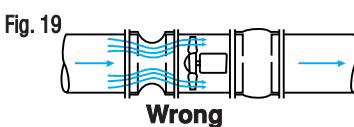
Fan performance suffers and noise is increased if a 90° circular section bend of small radius is used.



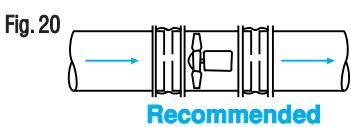
Do not use an expander of 30° or more immediately before or after a fan.



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.



## Flex Connectors



Fit a bell-mouth inlet to the fan.

A bellmouth inlet guides air into the impeller blade tips.

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

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

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.

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

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

# JM AEROFOIL

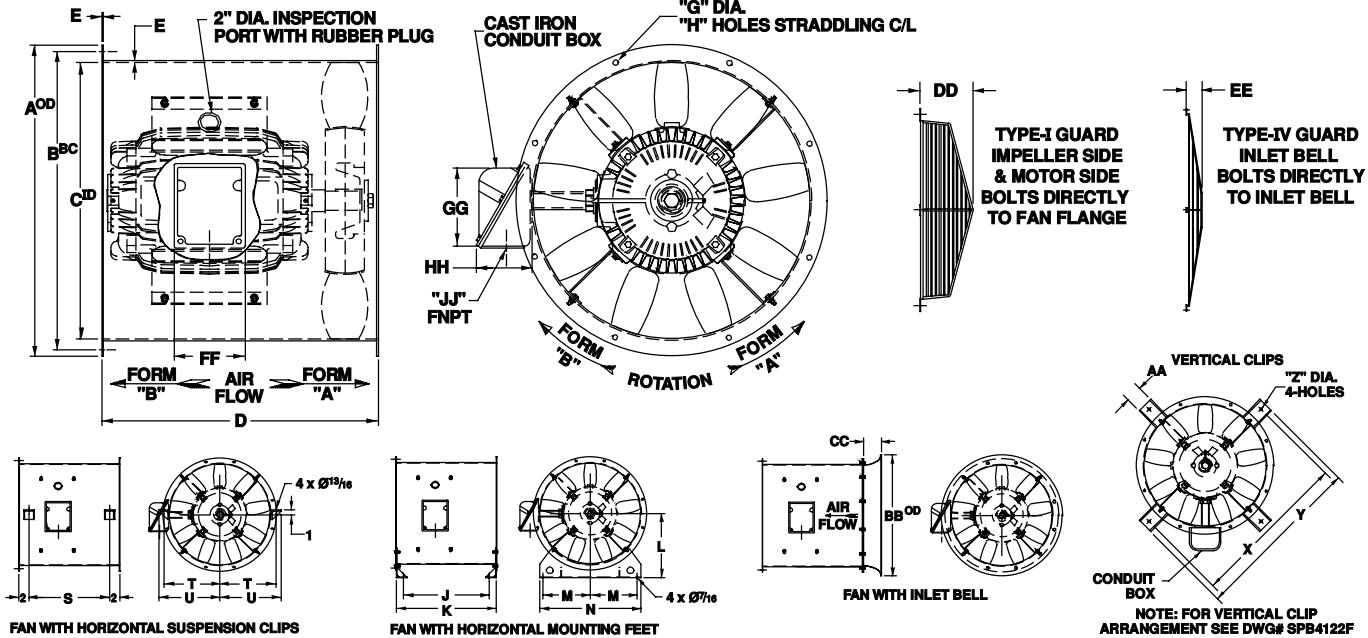
Fan sizes 31 through 45

Direct Drive with Pad Mounted Motors



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



FAN SIZE	FRAME 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			
31	140P	6.3	15 $\frac{1}{2}$	14	12 $\frac{1}{2}$	16	.105	7 $\frac{1}{2}$	8	12 $\frac{1}{2}$	15 $\frac{1}{2}$	7 $\frac{1}{2}$	5 $\frac{1}{4}$	12 $\frac{1}{2}$	12	7 $\frac{1}{2}$	8 $\frac{1}{2}$	17	19	7 $\frac{1}{2}$	2	14 $\frac{1}{2}$	2 $\frac{1}{2}$	5%	1%	38	50	4 $\frac{1}{2}$	6 $\frac{1}{2}$	3 $\frac{1}{4}$	3 $\frac{1}{4}$	
35	140P	6.3/8.0	16 $\frac{1}{2}$	15 $\frac{1}{2}$	13 $\frac{3}{4}$	16	.105	7 $\frac{1}{2}$	8	12 $\frac{1}{2}$	15 $\frac{1}{2}$	8 $\frac{1}{2}$	6	14	12	12	8 $\frac{1}{2}$	9 $\frac{1}{2}$	19	21	7 $\frac{1}{2}$	2	16 $\frac{1}{2}$	3 $\frac{1}{2}$	5%	1%	47	50	4 $\frac{1}{2}$	6 $\frac{1}{2}$	3 $\frac{1}{4}$	3 $\frac{1}{4}$
	180P	8.0																								85						
40	140P	6.3/8.0	19 $\frac{1}{2}$																								67	50	4 $\frac{1}{2}$	6 $\frac{1}{2}$	3 $\frac{1}{4}$	3 $\frac{1}{4}$
	180P	8.0/10.0		17 $\frac{1}{2}$	15 $\frac{1}{2}$	16	.105			8	12 $\frac{1}{2}$	15 $\frac{1}{2}$	9 $\frac{1}{2}$	6 $\frac{1}{2}$	15 $\frac{1}{2}$	12	9 $\frac{1}{2}$	10 $\frac{1}{2}$	21	23	7 $\frac{1}{2}$	2	18 $\frac{1}{2}$	3 $\frac{1}{2}$	5%	1%		85	4 $\frac{1}{2}$	6 $\frac{1}{2}$	3 $\frac{1}{4}$	3 $\frac{1}{4}$
	210P	10.0	19 $\frac{1}{2}$																								73	160	5 $\frac{1}{2}$	7 $\frac{1}{2}$	4 $\frac{1}{4}$	1
45	140P	6.3/8.0	21 $\frac{1}{2}$																								73	50	4 $\frac{1}{2}$	6 $\frac{1}{2}$	3 $\frac{1}{4}$	3 $\frac{1}{4}$
	180P	8.0/10.0		19 $\frac{1}{2}$	17 $\frac{1}{2}$	16	.105			8	12 $\frac{1}{2}$	15 $\frac{1}{2}$	11	7 $\frac{1}{2}$	17 $\frac{1}{2}$	12	10	11	24	26	1 $\frac{1}{2}$	3	21 $\frac{1}{2}$	3 $\frac{1}{2}$	5%	1%		85	4 $\frac{1}{2}$	6 $\frac{1}{2}$	3 $\frac{1}{4}$	3 $\frac{1}{4}$
	210P	10.0	21 $\frac{1}{2}$																								83	160	5 $\frac{1}{2}$	7 $\frac{1}{2}$	4 $\frac{1}{4}$	1
			* METRIC UNITS (mm) *																								(kg)					
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	A	
35	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					
40	140P	160/200	495																								30	22.7	122	165	83	
	180P	200/250	450	400	406	2.5			12.7	8	321	397	250	175	400	305	230	256	533	584	11.1	51	480	80	137	30		38.6	122	165	83	
	210P	250	495																								33	72.6	136	198	108	
45	140P	160/200	545																								33	22.7	122	165	83	
	180P	200/250	500	450	406	2.5			12.7	8	321	397	280	200	451	305	254	279	610	660	12.7	76	536	95	137	30		38.6	122	165	83	
	210P	250	545																								38	72.6	136	198	108	

SEE INCH DIMENSIONS

# JM AEROFOIL

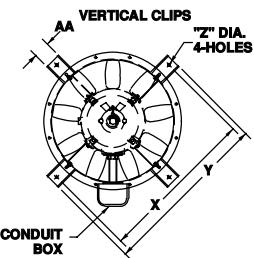
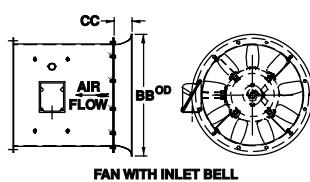
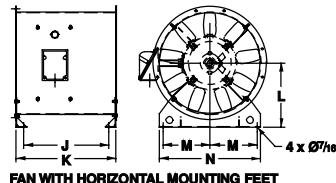
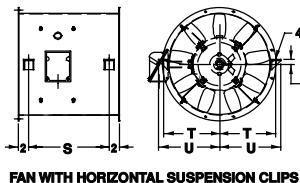
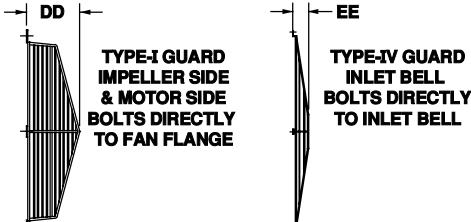
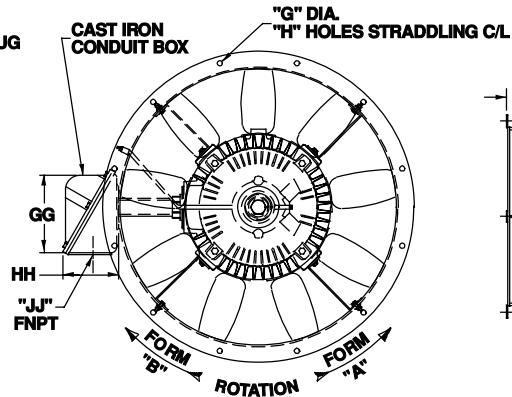
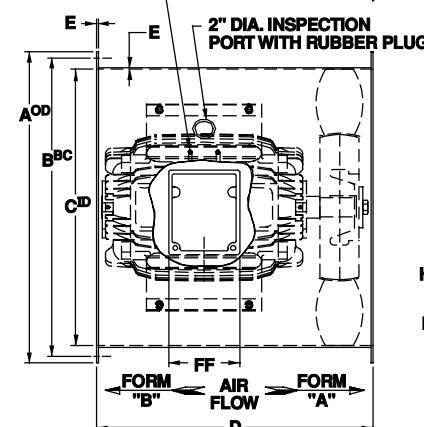
Fan sizes 50 through 63

Direct Drive with Pad Mounted Motors



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

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 WITH HORIZONTAL SUSPENSION CLIPS

FAN WITH HORIZONTAL MOUNTING FEET

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										
50	140P	6.3/8.0	23%	22 1/8	19 1/8	16	.135			13	15%				12	10 1/2	11 1/2									80	50	4 1/8	6 1/2	3 1/4	3/4				
	180P	8.0/10.0				20				17	19%				16			27	29	1/2	3	23%	37%	5%	1%		85	160	5%	7 1/8	4 1/4	1			
	210P	10.0/12.5				30	1/4			26	29%				26	11 1/2	12%										210	380	5%	7 1/8	4 1/4	1 1/4			
	250P	1.25/16.0																																	
	280P																																		
56	140P	6.3/8.0	25%	24 1/8	22 1/8	16	.135			13	15%				12	12 1/2	13 1/2										89	50	4 1/8	6 1/2	3 1/4	3/4			
	180P	8.0/10.0				20				17	19%				16			30	32	1/2	3	26%	3%	5%	1%		85	160	5%	7 1/8	4 1/4	1			
	210P	10.0/12.5				30	1/4			26	29%				26	12 1/2	13 1/2										250	380	5%	7 1/8	4 1/4	1 1/4			
	250P	1.25/16.0																																	
	280P																																		
63	140P	6.3/8.0	28%	27%	24 1/8	16	.135			11 1/2	15%				12	13 1/2	14 1/2										101	50	4 1/8	6 1/2	3 1/4	3/4			
	180P	8.0/10.0				20				15 1/2	19%				16													85	160	5%	7 1/8	4 1/4	1		
	210P	10.0/12.5				30				25 1/4	29 1/2				26													131	160	5%	7 1/8	4 1/4	1		
	250P	1.25/16.0																												280	380	5%	7 1/8	4 1/4	1 1/4
	280P									28 1/4	32 1/2				29													560	800	7%	10	6	2		
63	320P	16.0	29 1/8	27%	24 1/8	33																				303	560	7%	10	6	3				
	360P																																		
<b>* METRIC UNITS (mm) *</b>																																			
50	140P	160/200	595	560	500	406	3.4			330	400				305	279	304									36	22.7		122	165	83				
	180P	200/250				508				432	502				314	225	502	406									44	72.6		136	198	108			
	210P	250/315				762	6.4			679	749				660	282	307									95	172		136	198	108				
	250P	315/400																																	
	280P																																		
56	140P	160/200	656	620	560	406	3.4			330	400				305	309	334									40	22.7		122	165	83				
	180P	200/250				508				432	502				356	254	559	406									53	72.6		136	198	108			
	210P	250/315				762	6.4			679	749				660	312	337									114	172		136	198	108				
	250P	315/400																																	
	280P																																		
63	140P	160/200	725	689	630	406	3.4			292	400				305	344	369									46	22.7		122	165	83				
	180P	200/250				508				394	502				406											59	72.6		136	198	108				
	210P	250/315				762				641	749				660											127	172		136	198	108				
	250P	315/400								718	826				737			347	372								137	252		197	254	152			
	280P																																		
63	320P	400	738	689	630	406	3.4			718	826				305											46	22.7		122	165	83				
	360P					508				641	749				406											59	72.6		136	198	108				
						762	6.4			718	826				660											127	172		136	198	108				

SEE INCH DIMENSIONS

# JM AEROFOIL

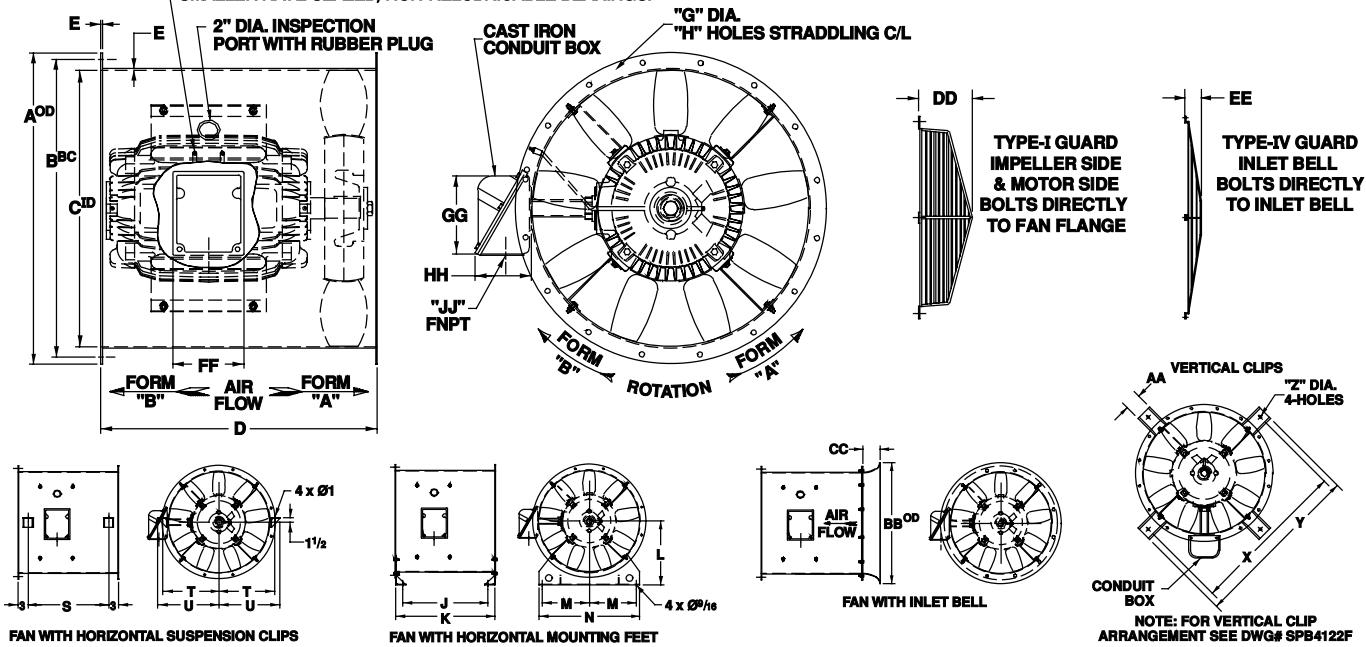
Fan sizes 71 & 80

Direct Drive with Pad Mounted Motors



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

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



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 1/8	16						11 1/2	15 1/4				10											112	85	4 1/8	6 1/2	3 1/4	3/8		
	210P	10.0/12.5		20						15 1/2	19 1/4				14	15 1/2	17 1/2										144	160	5%	7 7/8	4 1/4	1	
	250P	12.5/16.0		30						25 1/4	29 1/2				17 1/4	13	27 1/2											313	380	5%	7 7/8	4 1/4	1/4
	280P									1/4																	335	560				2	
	320P			33						28 1/4	32 1/2																800		7 1/4	10	6	3	
	360P	16.0																															
80	180P	8.0/10.0	35 1/4	16						11 1/2	15 1/4				10												128	85	4 1/8	6 1/2	3 1/4	3/4	
	210P	10.0/12.5		20						15 1/2	19 1/4				14	17 1/2	18 1/2										160	160	5%	7 7/8	4 1/4	1	
	250P	12.5/16.0		30						25 1/4	29 1/2				19 1/4	14 1/4	31 1/2										349	380	5%	7 7/8	4 1/4	1/4	
	280P									1/4																	372	560				2	
	320P			33						28 1/4	32 1/2															800		7 1/4	10	6	3		
	360P	16.0																															
<b>Y METRIC UNITS (mm) Y</b>																																	
71	180P	200/250	805				406	3.4		292	400				254	396	434									51	38.6	122	165	83			
	210P	250/315					508			394	502				356											65	72.6	136	198	108			
	250P	315/400					770	710	12.7	641	749				610											142	172	136	198	108			
	280P									762		6.4			399	437											152	252		197	254	152	
	320P	400								838					718	826											363						
	360P																																
80	180P	200/250	895				406	3.4		292	400				254	441	479									58	38.6	122	165	83			
	210P	250/315					508			394	502				356											73	72.6	136	198	108			
	250P	315/400							12.7	641	749				610											158	172	136	198	108			
	280P									762		6.4			445	483											169	252		197	254	152	
	320P	400								838					718	826											363						
	360P																																

SEE INCH DIMENSIONS A

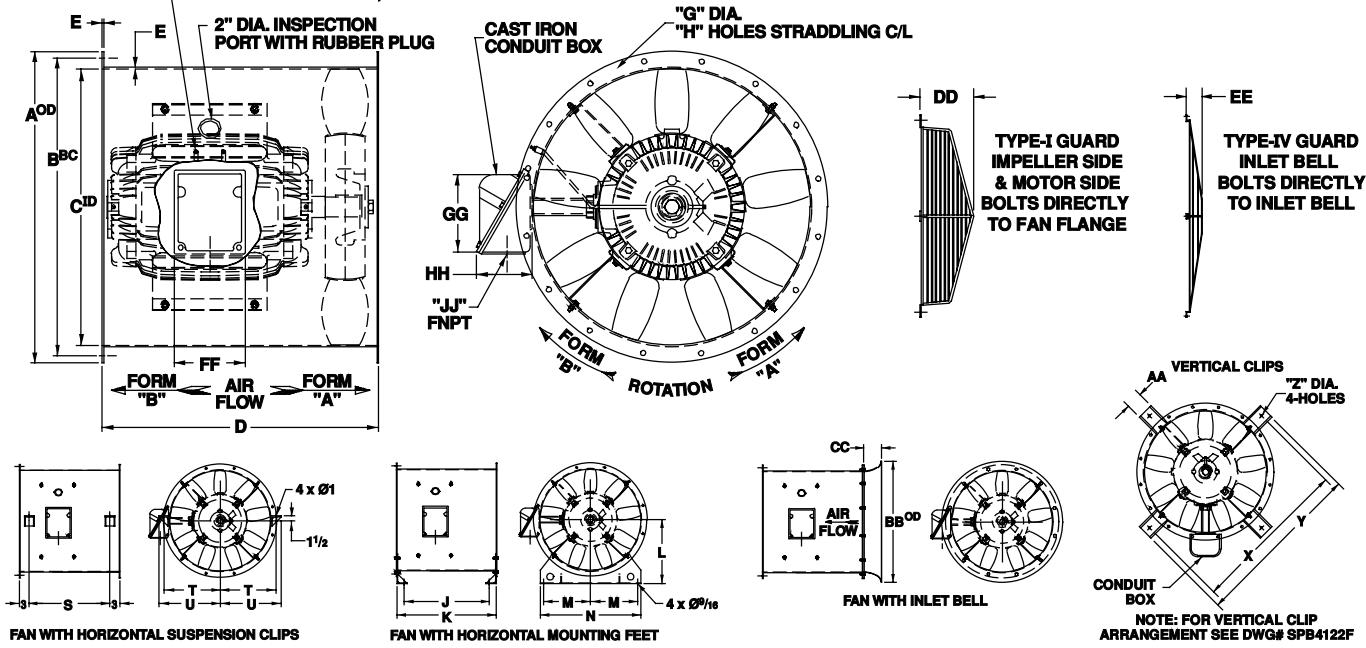
# JM AEROFOIL

Fan sizes 90 & 100  
Direct Drive with Pad Mounted Motors



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

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



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 1/8	38 1/4	35 7/8	1/4	.135	%	16	20	30	33	16	22	16 1/4	35 7/8								143	85	4 1/8	6 1/2	3 1/4	3/8					
	210P	10.0/12.5																																
	250P	12.5/16.0																																
	280P																																	
	320P																																	
	360P	16.0																																
100	180P	10.0	43 3/8	42 1/2	39%	1/4	.179	%	16	20	30	33	38	24%	19	40								187	85	4 1/8	6 1/2	3 1/4	3/8					
	210P	10.0/12.5																																
	250P	12.5/16.0																																
	280P																																	
	320P	16.0/20.0																																
	360P	20.0																																
	400P	20.0																																
* METRIC UNITS (mm) *																																		
90	180P	250	1008	970	900	406	3.4	14.3	16	292	400	508	502	762	6.4	559	425	900	254	491	529	1194	1270	12.7	102	1077	150	137	50	65	38.6	122	165	83
	210P	250/315																																
	250P	315/400																																
	280P																																	
	320P	400																																
	360P	500																																
100	180P	250	1108	1070	1000	406	4.6	14.3	16	276	397	508	498	762	6.4	625	483	1016	254	543	581	1295	1372	15.9	102	1199	167	137	50	85	38.6	122	165	83
	210P	250/315																																
	250P	315/400																																
	280P																																	
	320P	400/500																																
	360P	500																																
	400P	500																																

SEE INCH DIMENSIONS



# JM AEROFOIL

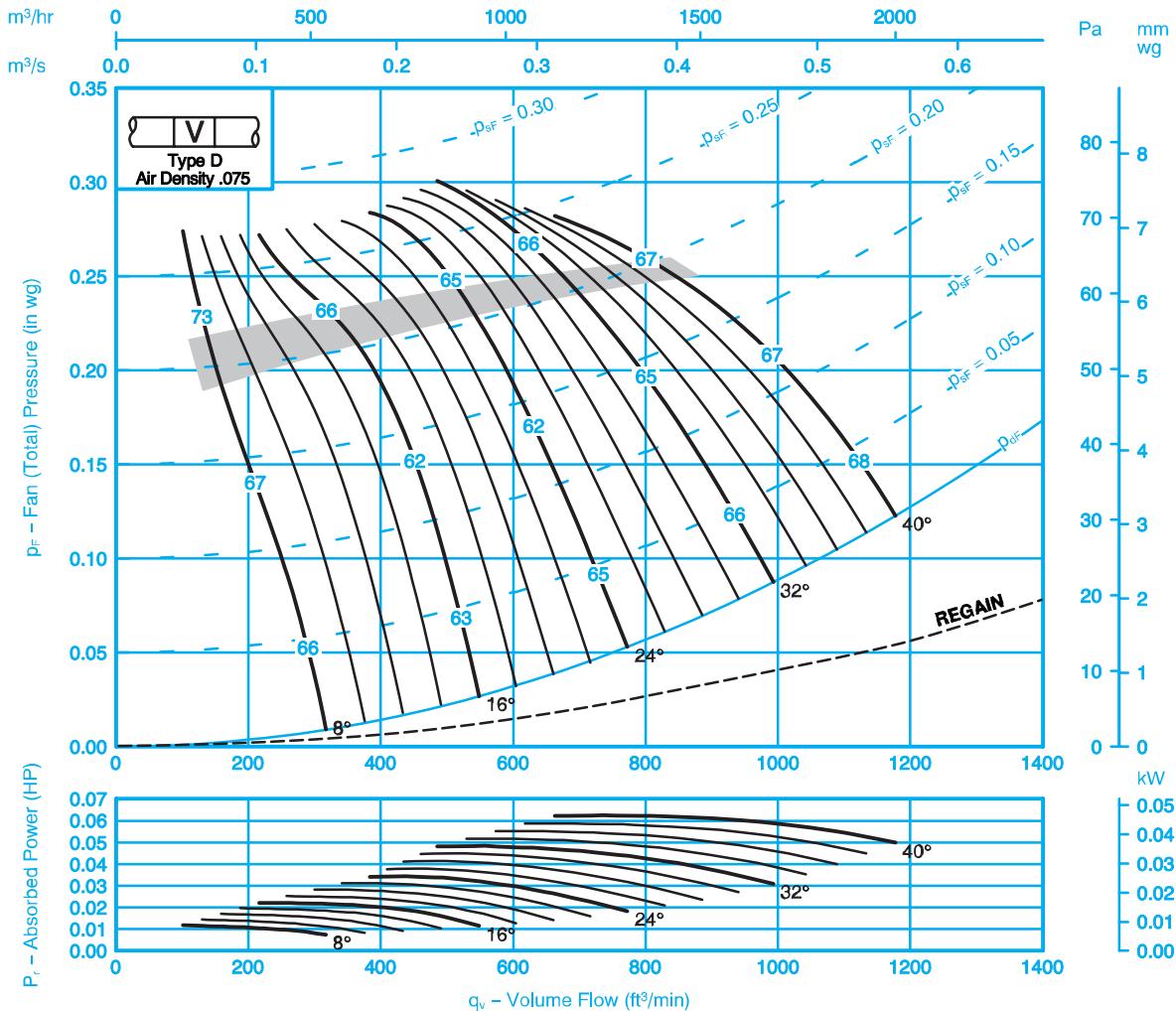
Fan Code: 31JM/16/6/5/...  
**315 mm 1170 RPM**  
**5 Blades 60 Hz**



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.

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°	-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



# JM AEROFOIL

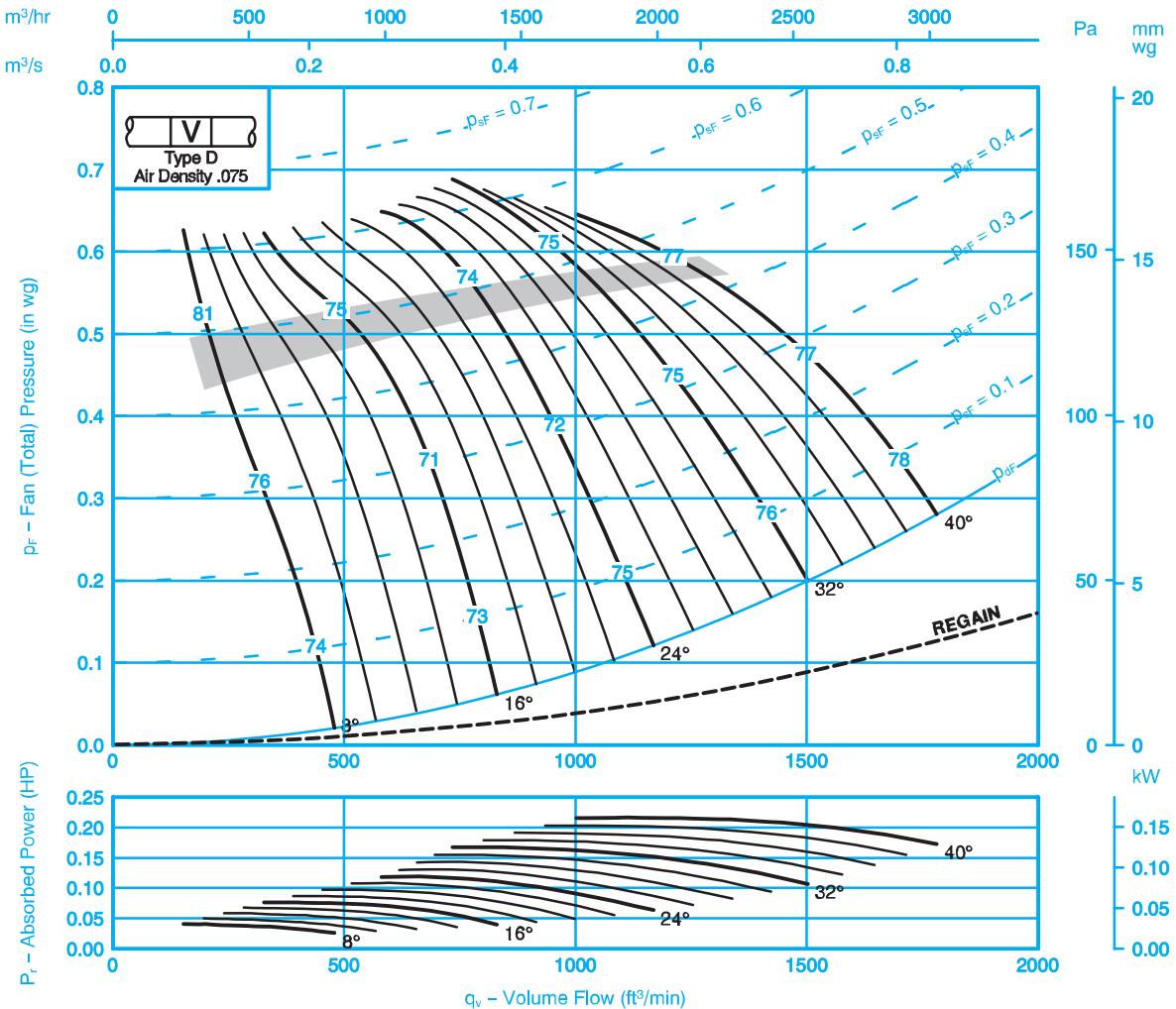
Fan Code: 31JM/16/4/5/  
315 mm 1770 RPM  
5 Blades 60 Hz



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.

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°	-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

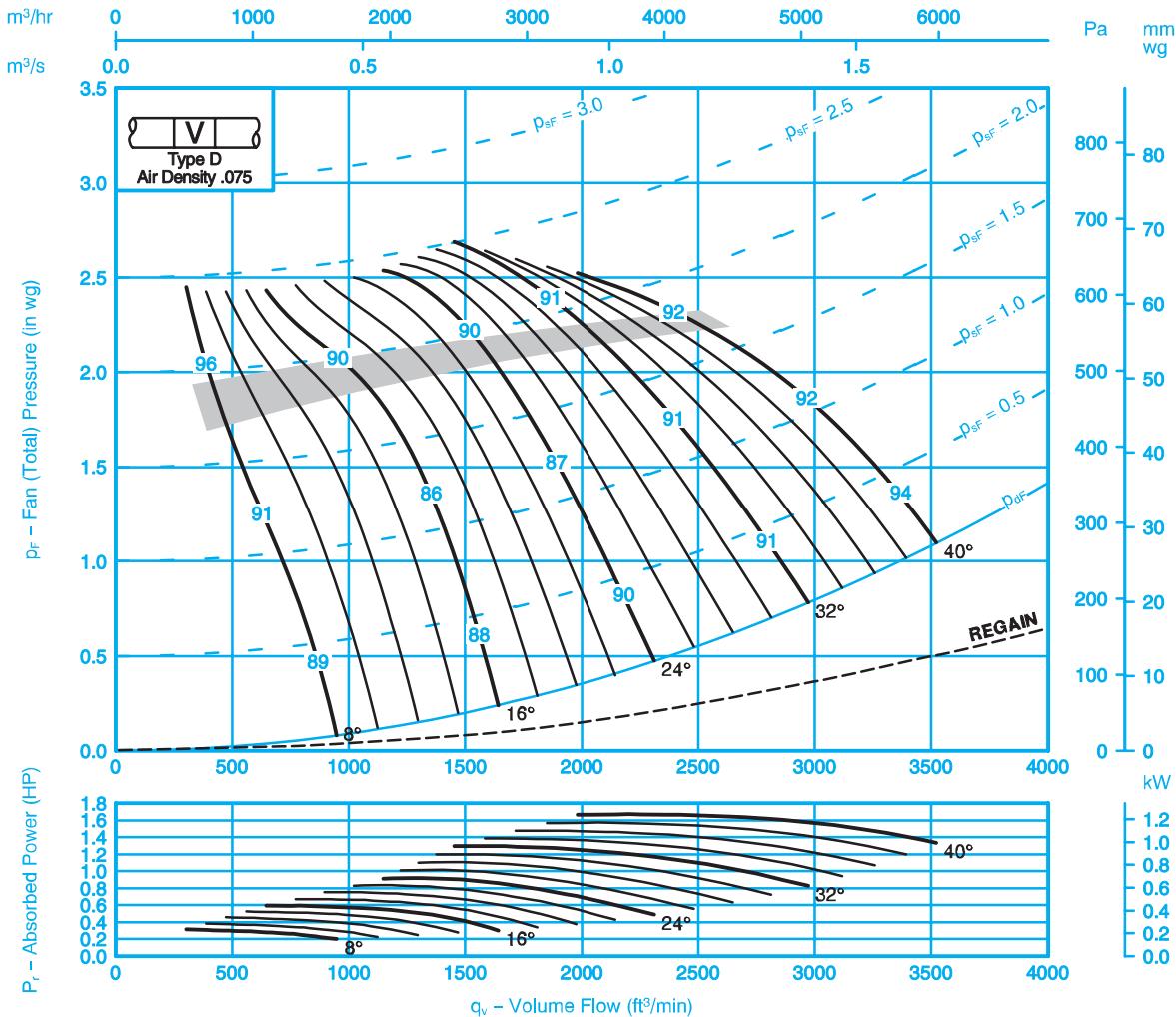
Fan Code: 31JM/16/2/5/  
315 mm 3500 RPM  
5 Blades 60 Hz



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.

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°	-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

Outlet Levels								
Pitch Angle	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

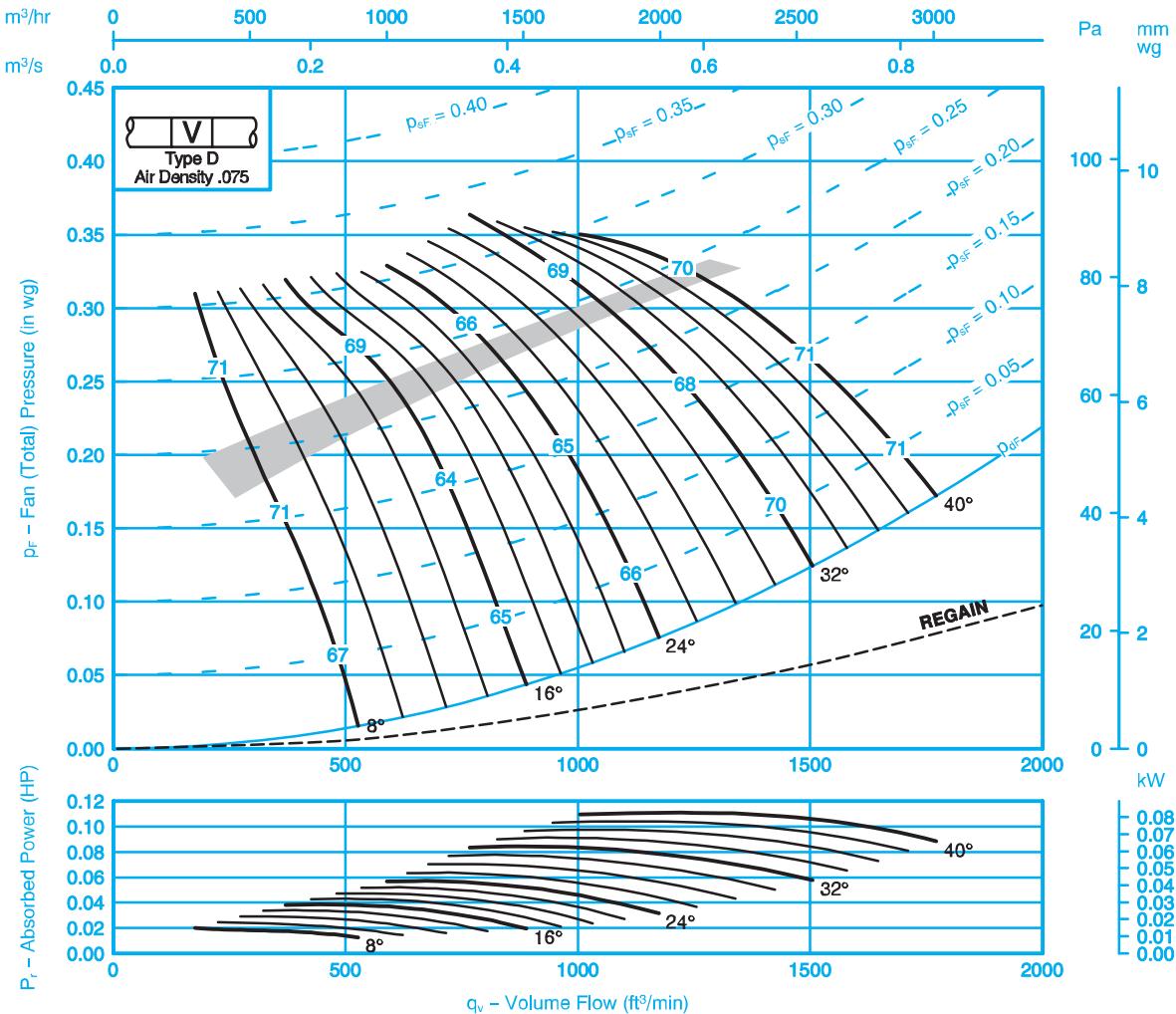
Fan Code: 35JM/16/6/5/...  
**355 mm 1170 RPM**  
**5 Blades 60 Hz**



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°	-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

Pitch Angle	Outlet Levels							
	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

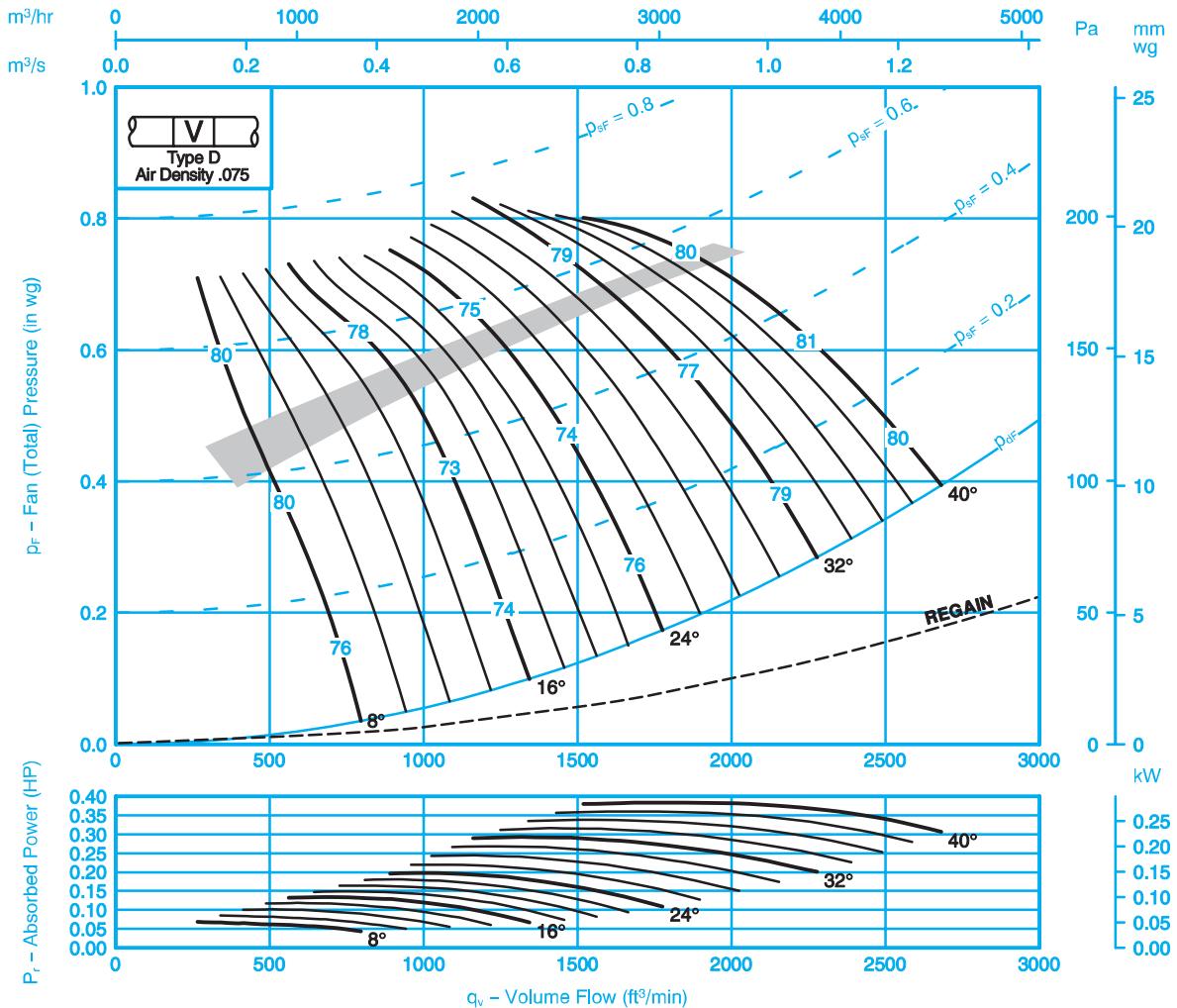
Fan Code: 35JM/16/4/5/...  
**355 mm 1770 RPM**  
**5 Blades 60 Hz**



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	-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	-12	-16	-20	-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

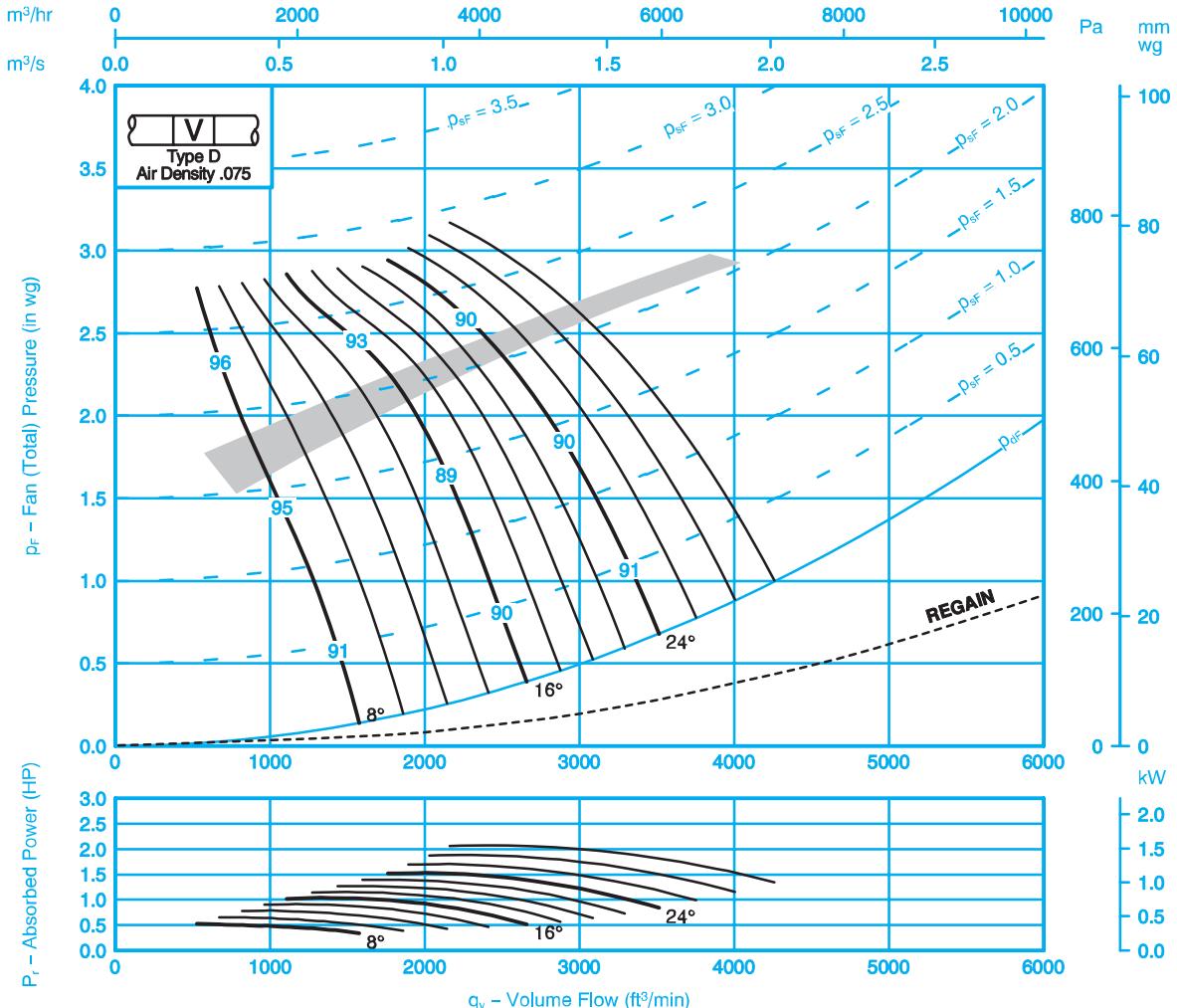
Fan Code: 35JM/16/2/5...  
**355 mm 3500 RPM**  
**5 Blades 60 Hz**



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**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	-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

Pitch Angle	Outlet Levels							
	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

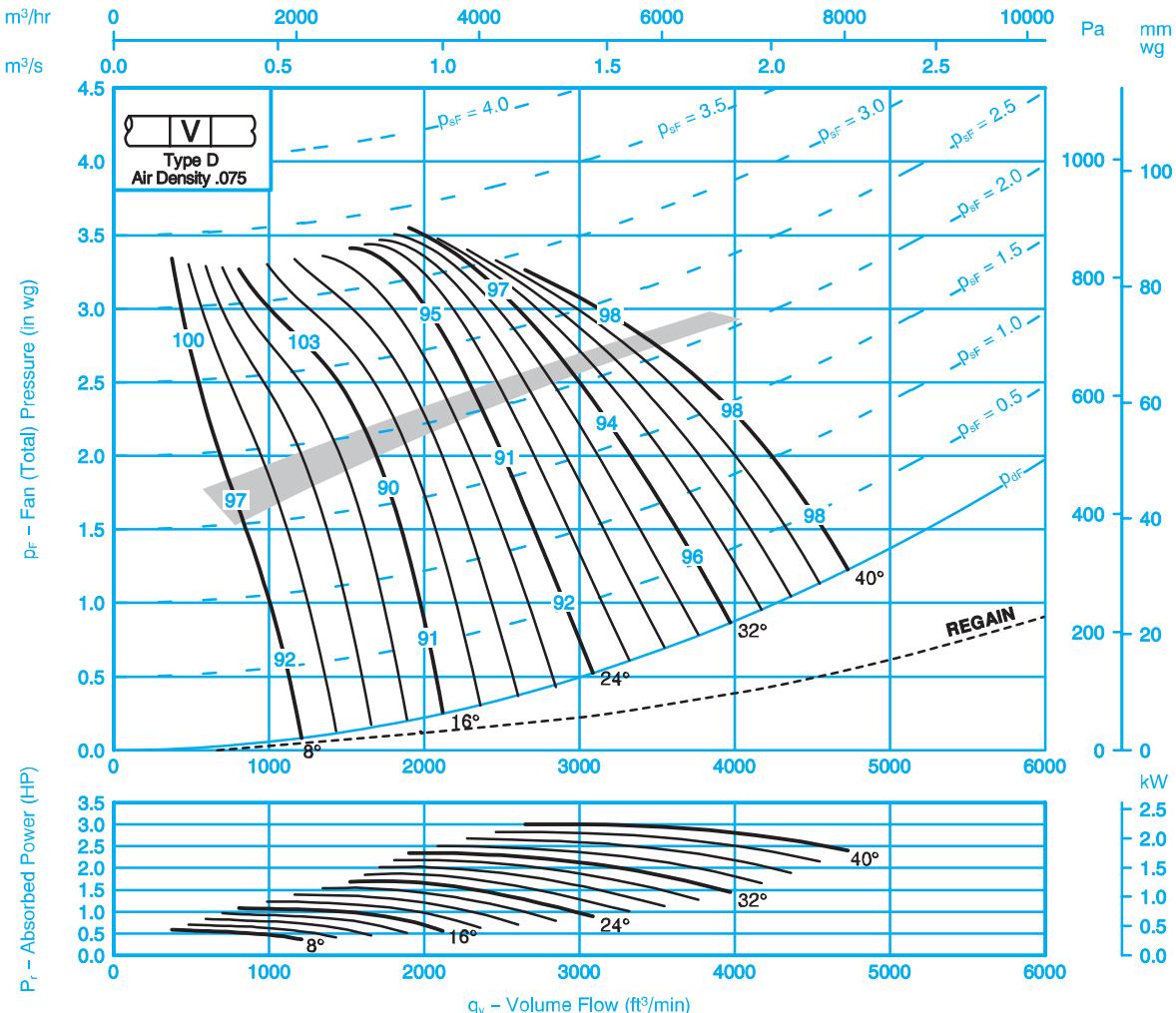
Fan Code: 35JM/20/2/6...  
355 mm 3500 RPM  
6 Blades 60 Hz



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°	-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

Pitch Angle	Outlet Levels							
	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

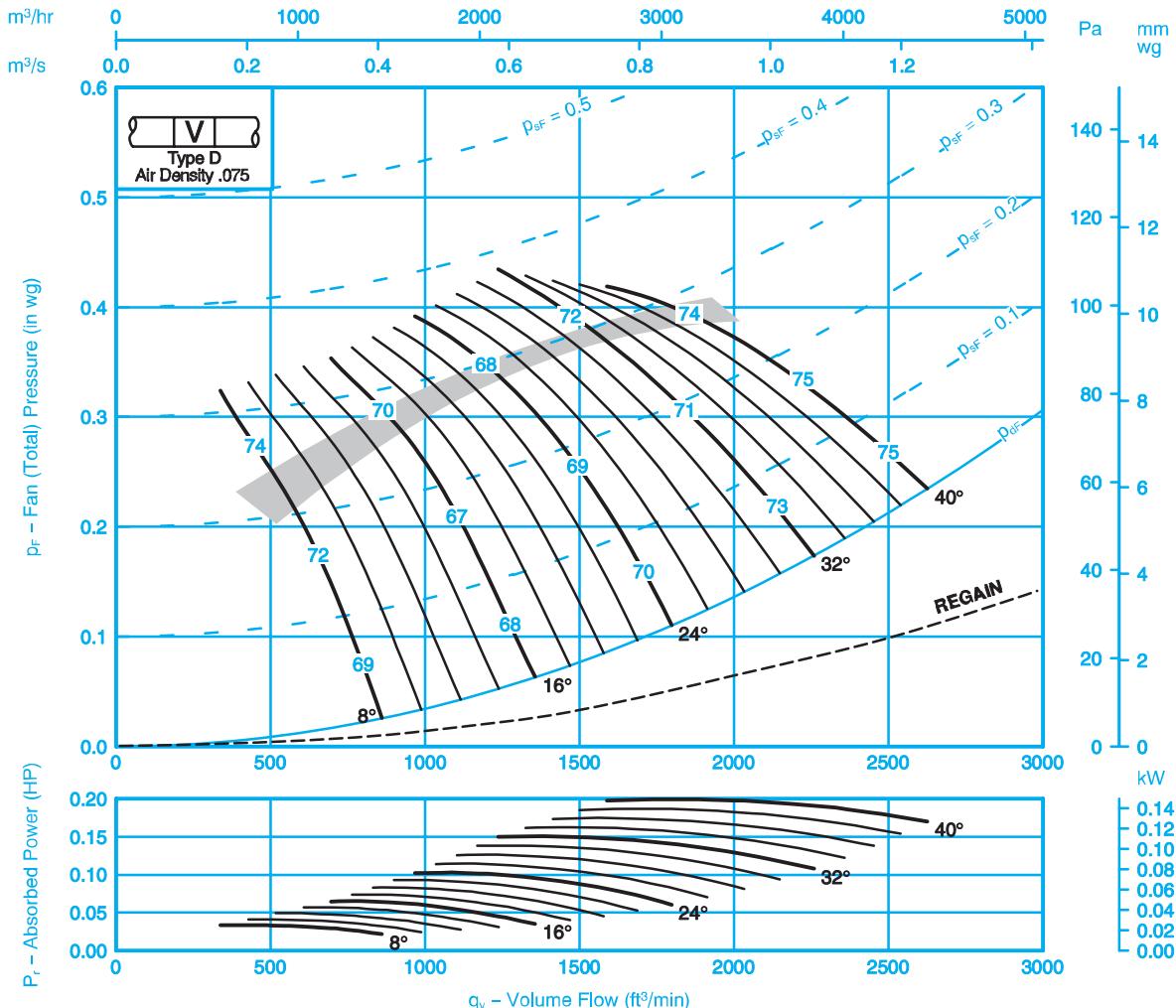
Fan Code: 40JM/16/6/5/...  
400 mm 1170 RPM  
5 Blades 60 Hz



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°	-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

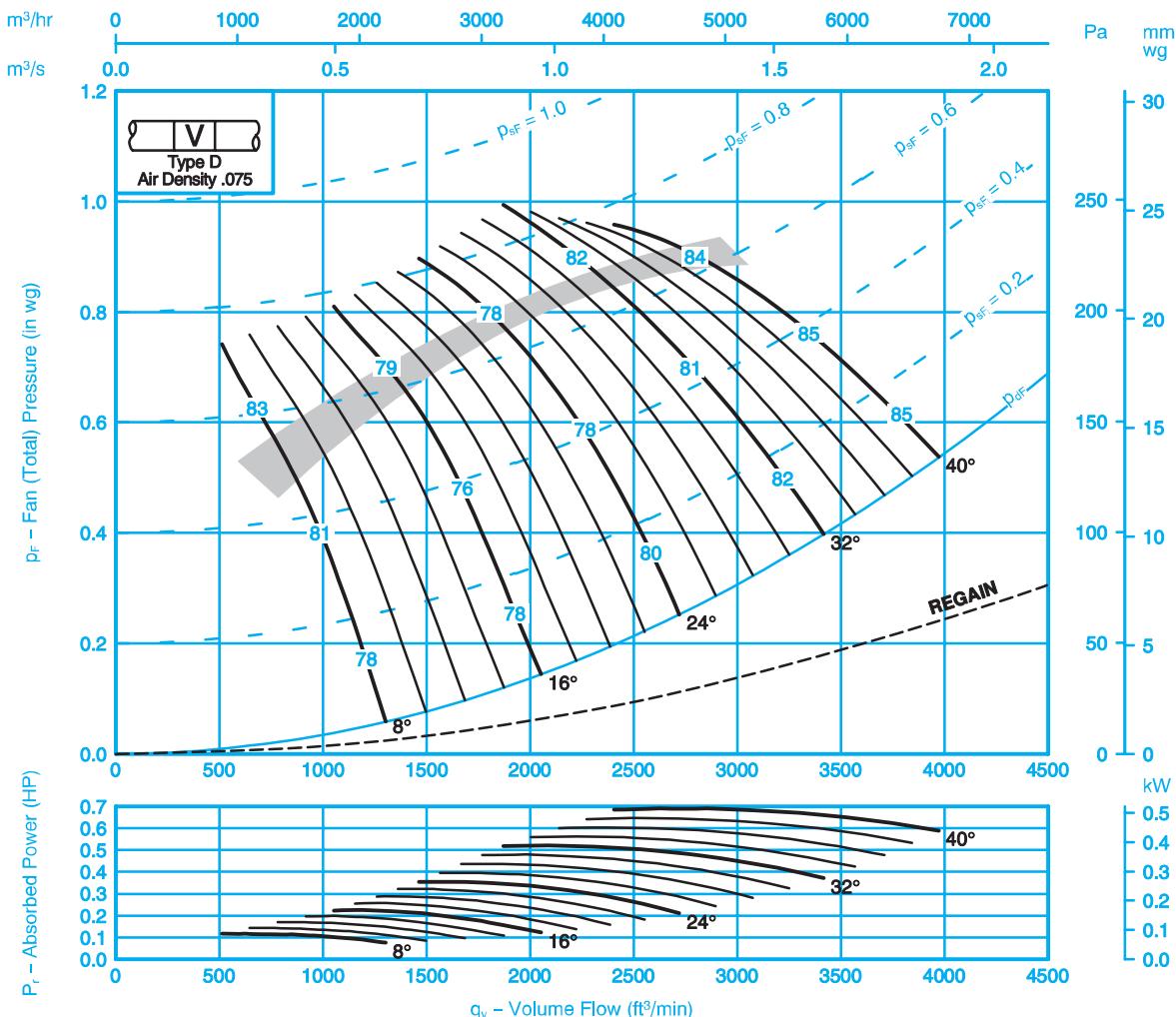
Fan Code: 40JM/16/4/5/...  
400 mm 1770 RPM  
5 Blades 60 Hz



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°	-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

Pitch Angle	Outlet Levels							
	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

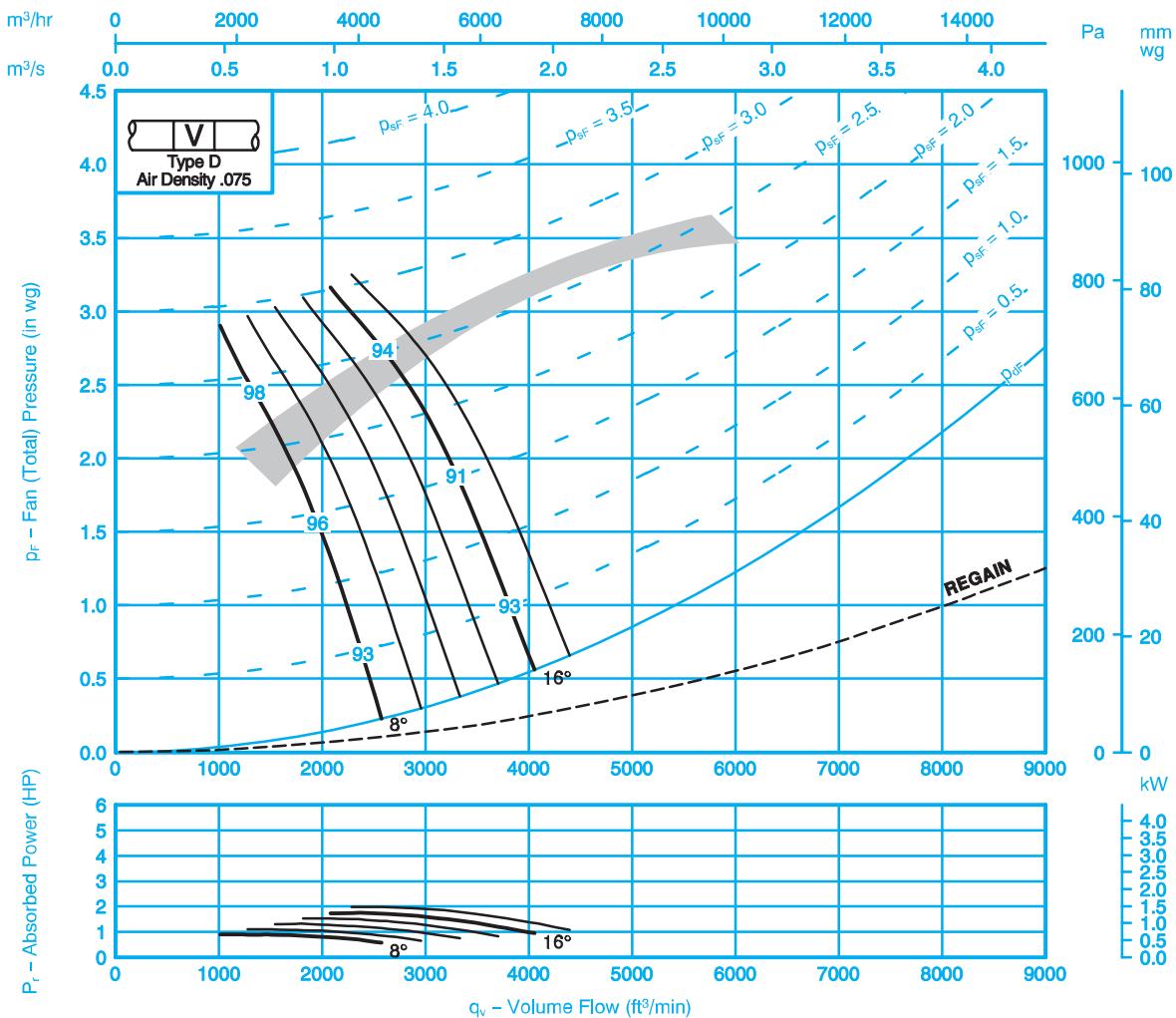
Fan Code: 40JM/16/2/5/...  
400 mm 3500 RPM  
5 Blades 60 Hz



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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°	-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°	-10	-11	-2	-6	-7	-8	-9	-12
	-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

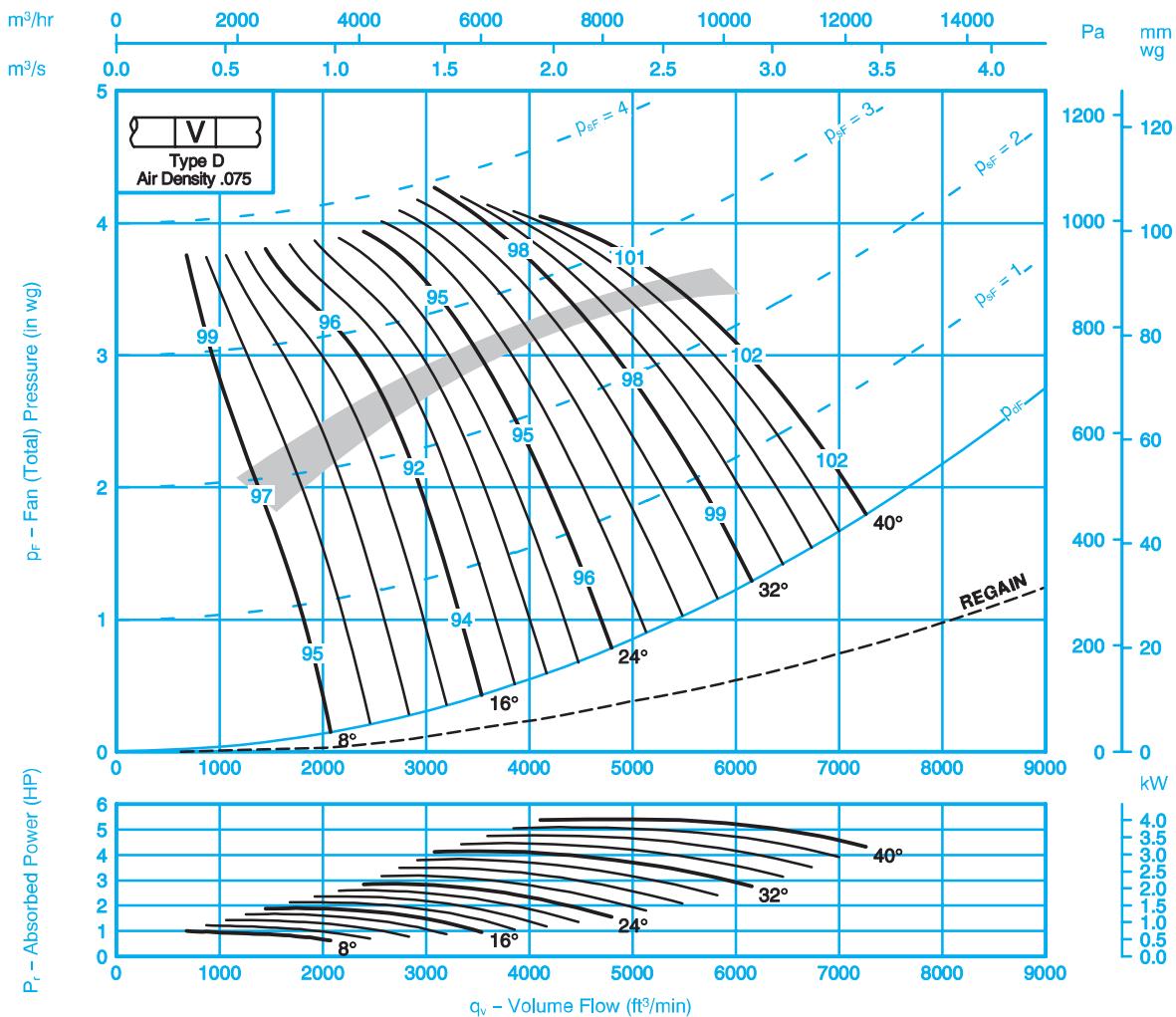
Fan Code: 40JM/20/2/6/...  
**400 mm 3500 RPM**  
**6 Blades 60 Hz**



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Inlet Levels								
Pitch Angle	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

Outlet Levels								
Pitch Angle	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

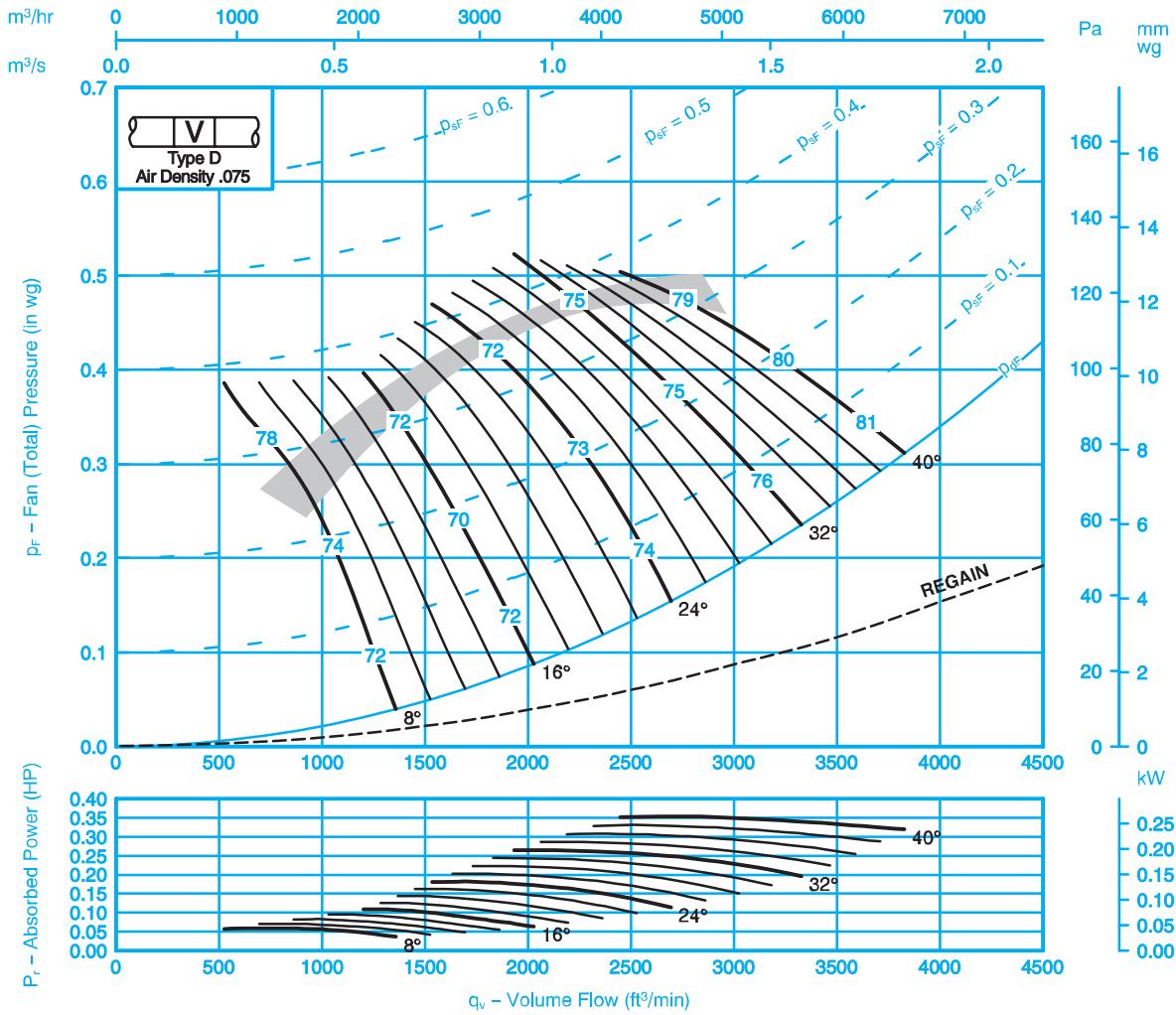
5 Blades 60 Hz



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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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							
	-9	-6	-6	-5	-11	-19	-26
-12	-7	-8	-5	-8	-12	-18	-25
-7	-5	-10	-6	-10	-15	-22	-28
-8	-3	-9	-10	-11	-13	-17	-20
-4	-6	-10	-11	-13	-15	-19	-23
-5	-5	-9	-10	-13	-15	-20	-24

Outlet Levels							
	-8	-4	-6	-5	-11	-18	-25
-12	-6	-8	-5	-5	-8	-11	-18
-6	-5	-10	-6	-10	-10	-15	-21
-8	-3	-9	-10	-11	-11	-13	-16
-2	-6	-10	-11	-10	-13	-15	-18
-4	-4	-9	-10	-10	-13	-15	-19

SK10272

End Reflection Correction (dB)							
-10	-5	-2	0	0	0	0	0



# JM AEROFOIL

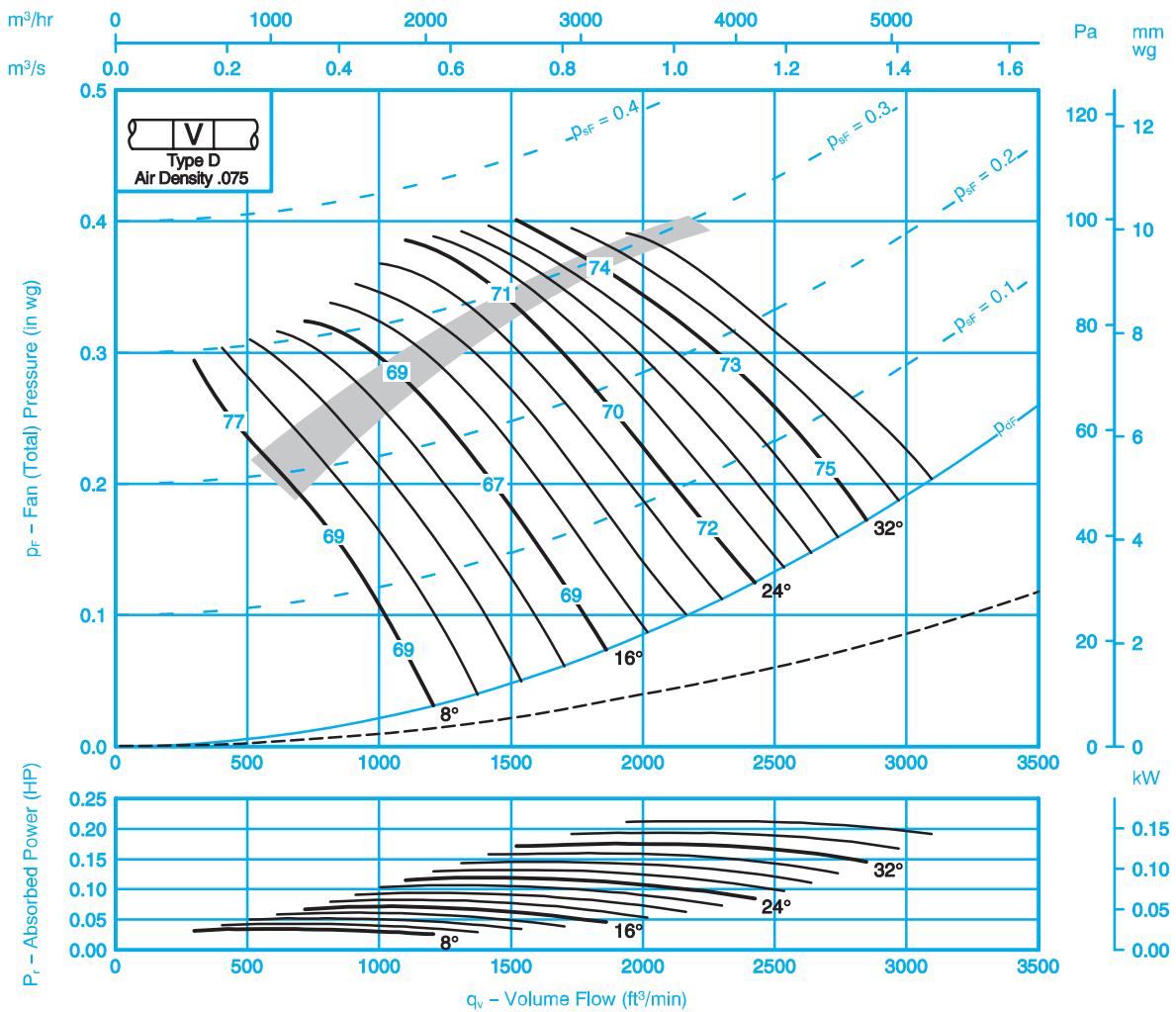
Fan Code: 45JM/20/6/3/...  
**450 mm 1170 RPM**  
**3 Blades 60 Hz**



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

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# JM AEROFOIL

Fan Code: 45JM/20/6/6/...

450 mm 1170 RPM

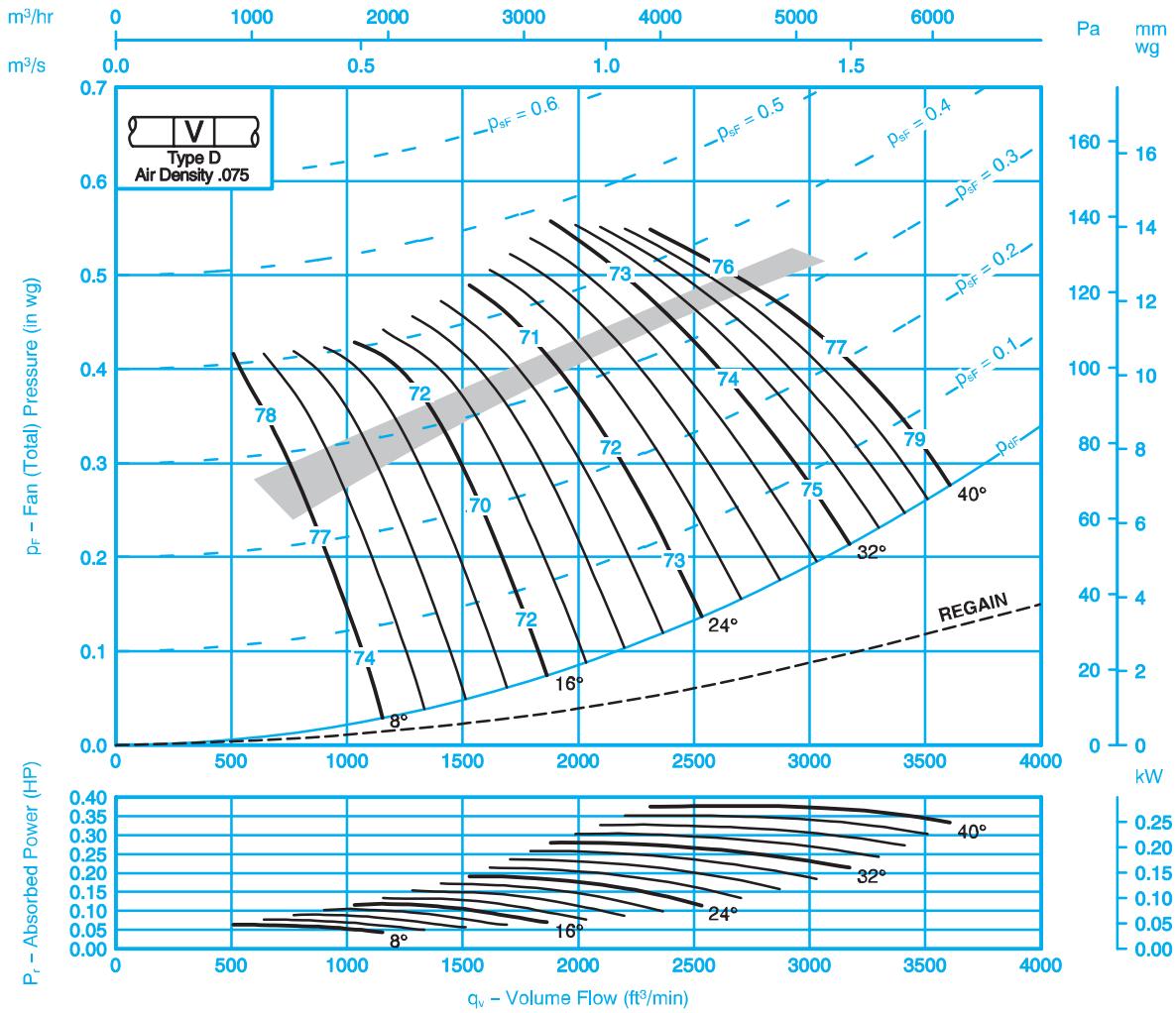
6 Blades 60 Hz



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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							
	-14	-11	-4	-4	-11	-20	-28
	-16	-11	-5	-4	-8	-15	-19
	-11	-6	-5	-8	-10	-14	-20
	-13	-7	-5	-7	-9	-12	-16
	-6	-6	-6	-9	-12	-16	-20
	-8	-6	-6	-8	-11	-15	-19
							-23

Outlet Levels							
	-12	-9	-4	-4	-11	-19	-27
	-15	-9	-5	-4	-8	-14	-18
	-10	-4	-4	-8	-10	-14	-20
	-12	-5	-5	-7	-9	-12	-16
	-5	-5	-5	-8	-11	-15	-18
	-5	-3	-6	-8	-11	-15	-23
							-22

SK10274

End Reflection Correction (dB)							
-10	-5	-2	0	0	0	0	0



# JM AEROFOIL

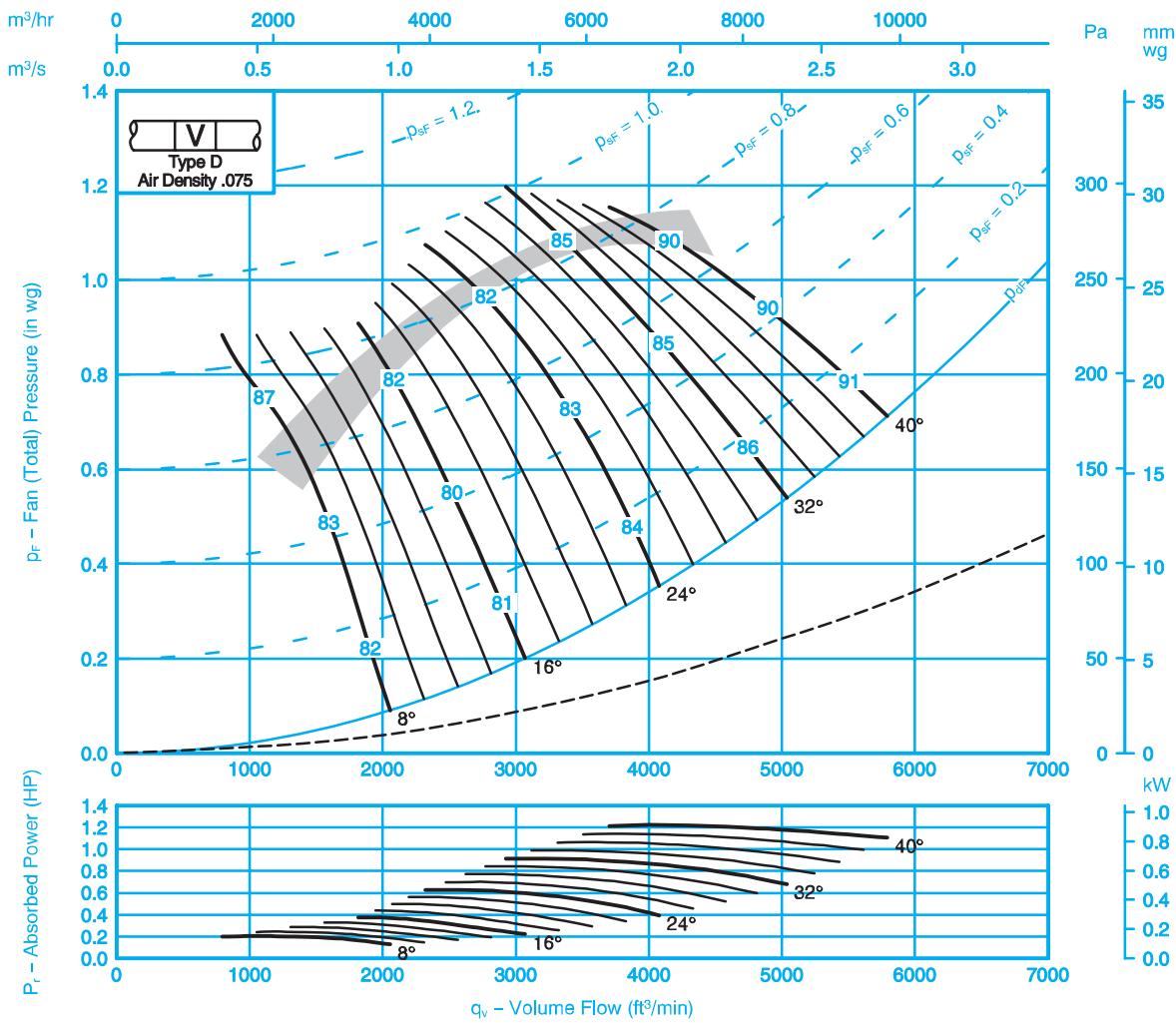
Fan Code: 45JM/16/4/5/...  
**450 mm 1770 RPM**  
**5 Blades 60 Hz**



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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							
-12	-6	-9	-5	-8	-14	-22	-30
-13	-7	-9	-7	-5	-10	-15	-21
-10	-4	-8	-9	-9	-12	-15	-25
-11	-3	-9	-11	-11	-12	-15	-19
-5	-5	-9	-13	-13	-15	-17	-22
-6	-4	-8	-11	-12	-15	-17	-23

Outlet Levels							
-11	-4	-8	-5	-8	-14	-21	-27
-14	-6	-9	-7	-6	-9	-15	-20
-9	-4	-8	-9	-9	-12	-17	-23
-11	-2	-9	-11	-11	-12	-14	-17
-4	-5	-9	-13	-13	-15	-17	-21
-6	-4	-8	-11	-12	-14	-16	-21

SK10275

End Reflection Correction (dB)							
-10	-5	-2	0	0	0	0	0



# JM AEROFOIL

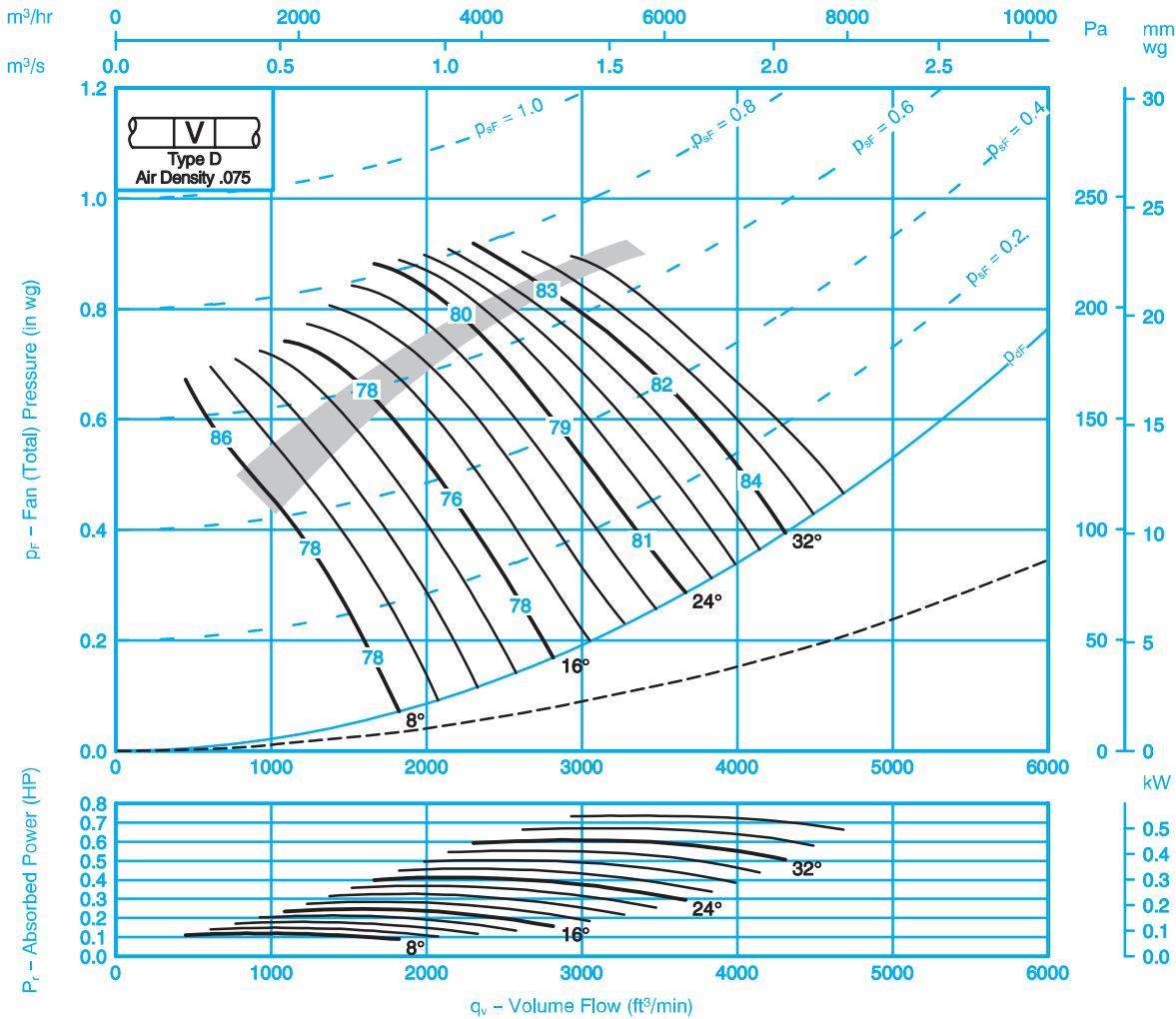
Fan Code: 45JM/20/4/3/  
450 mm 1770 RPM  
3 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014  
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Inlet Levels								
	-17	-16	-8	-3	-7	-15	-24	
	-11	-12	-7	-5	-6	-12	-14	-18
	-8	-7	-6	-6	-11	-15	-19	-24
	-7	-10	-6	-6	-9	-13	-16	-21
	-5	-8	-6	-9	-12	-15	-18	-22
	-4	-10	-6	-8	-11	-14	-18	-23

Outlet Levels								
	-14	-15	-8	-3	-7	-15	-23	
	-8	-12	-7	-5	-6	-11	-12	-16
	-7	-7	-6	-6	-10	-14	-18	-23
	-4	-9	-6	-6	-9	-13	-16	-20
	-3	-7	-6	-9	-11	-14	-16	-19
	-2	-9	-6	-8	-11	-14	-17	-21

SK10276

End Reflection Correction (dB)							
-10	-5	-2	0	0	0	0	0



# JM AEROFOIL

Fan Code: 45JM/20/4/6/...

450 mm 1770 RPM

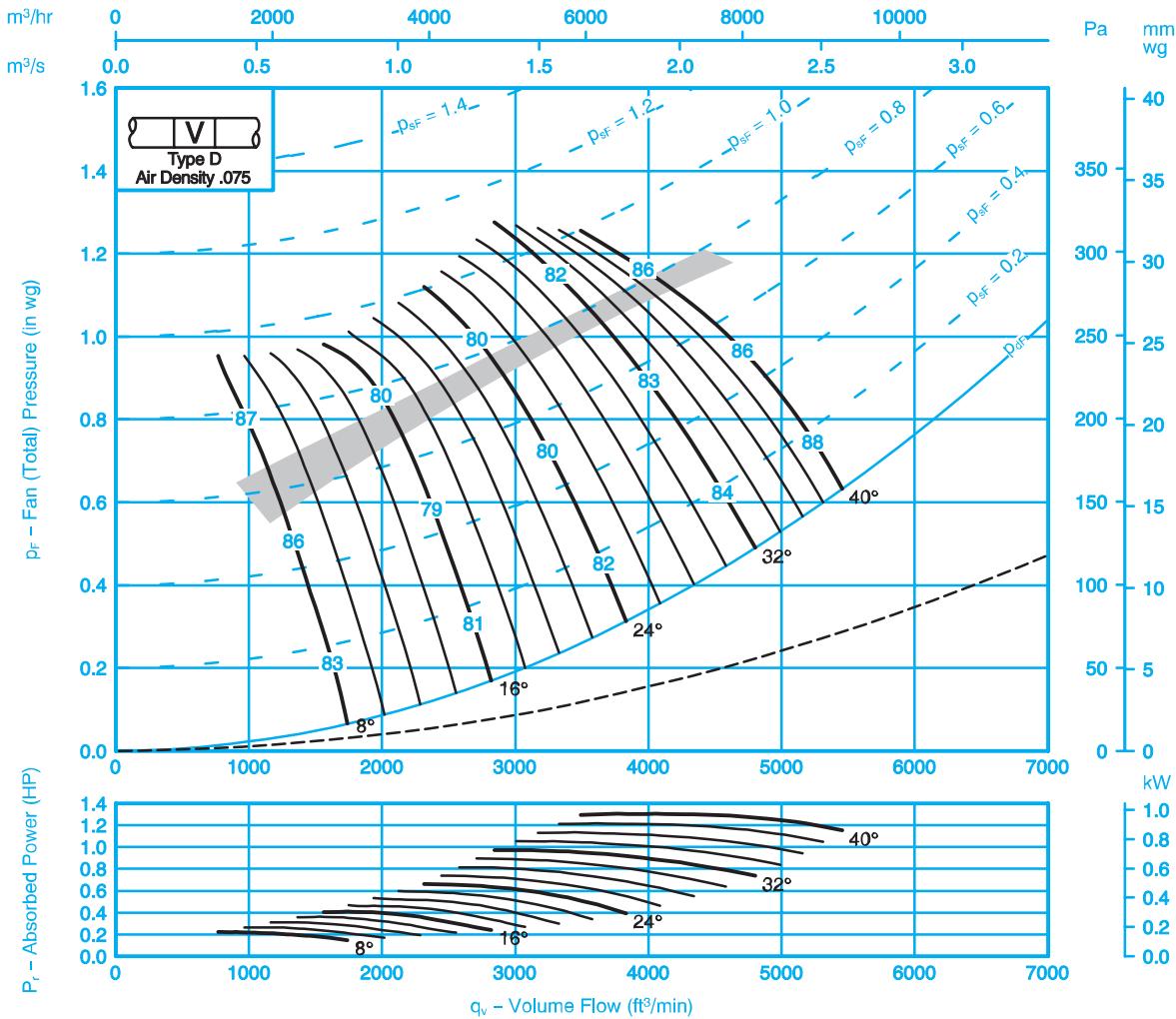
6 Blades 60 Hz



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

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



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							
	-18	-12	-8	-3	-6	-15	-23
	-19	-14	-8	-5	-4	-12	-16
	-14	-7	-7	-5	-8	-12	-16
	-15	-8	-8	-5	-7	-11	-13
	-7	-6	-9	-7	-10	-14	-17
	-9	-6	-8	-7	-9	-13	-16
							-21

Outlet Levels							
	-15	-11	-8	-3	-6	-14	-22
	-18	-12	-8	-5	-4	-11	-15
	-13	-5	-7	-5	-8	-11	-16
	-14	-6	-7	-5	-7	-11	-13
	-5	-5	-8	-7	-9	-13	-16
	-6	-4	-8	-7	-9	-13	-15
						-21	-20

SK10277

End Reflection Correction (dB)							
	-10	-5	-2	0	0	0	0



# JM AEROFOIL

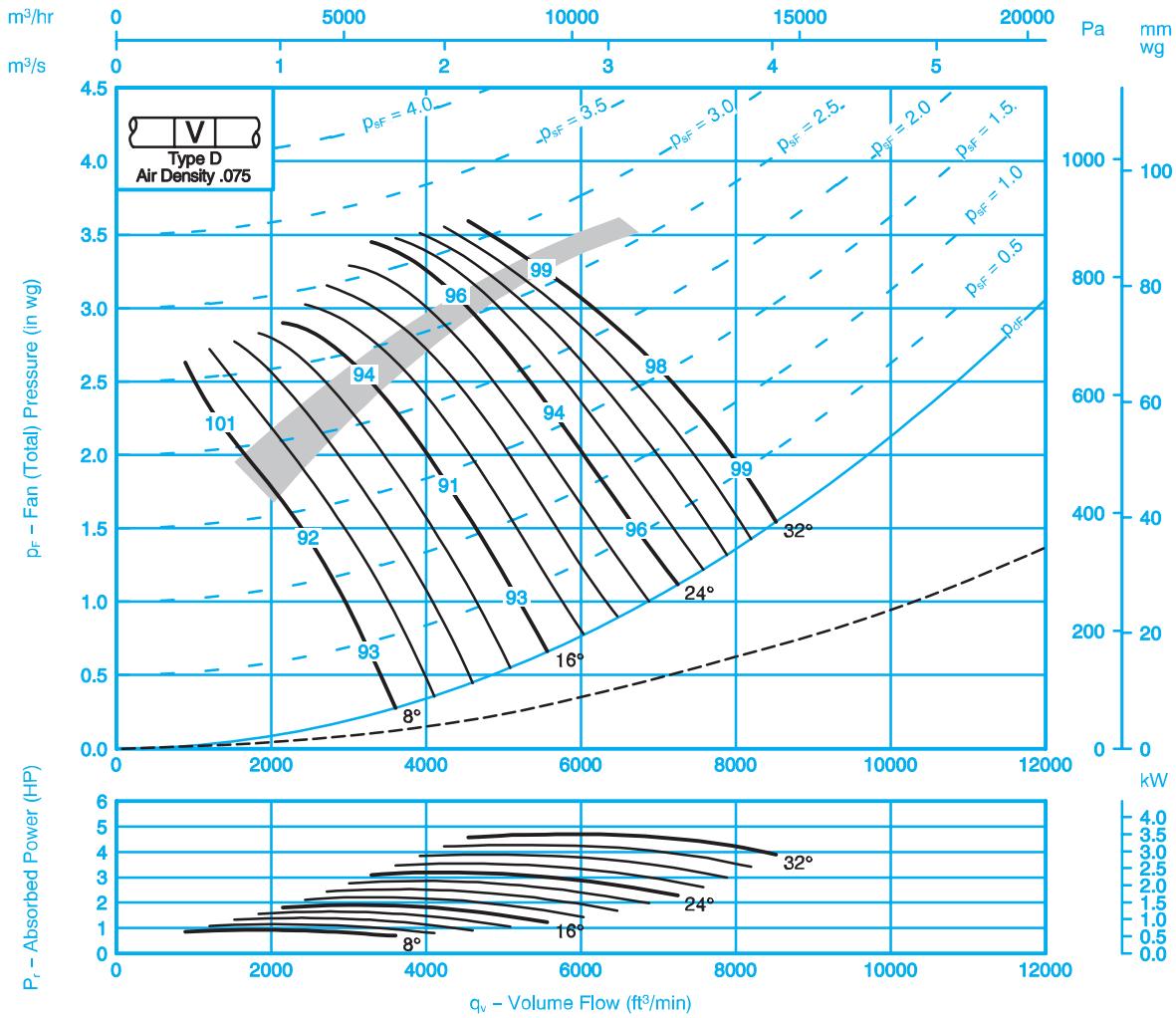
Fan Code: 45JM/20/2/3/  
450 mm 3500 RPM  
3 Blades 60 Hz



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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								
	-18	-17	-17	-8	-3	-7	-16	
	-15	-11	-13	-7	-6	-6	-12	-14
	-9	-9	-8	-6	-6	-11	-15	-19
	-11	-7	-10	-7	-7	-9	-14	-17
	-8	-5	-9	-7	-10	-12	-16	-19
	-9	-5	-11	-7	-9	-11	-15	-19

Outlet Levels								
	-15	-15	-15	-8	-3	-6	-15	
	-13	-8	-12	-7	-5	-6	-10	-12
	-8	-8	-7	-6	-6	-7	-11	-15
	-10	-5	-9	-7	-7	-9	-13	-15
	-7	-4	-8	-6	-10	-11	-14	-16
	-7	-2	-10	-7	-9	-10	-14	-17

SK10279

End Reflection Correction (dB)							
-10	-5	-2	0	0	0	0	0



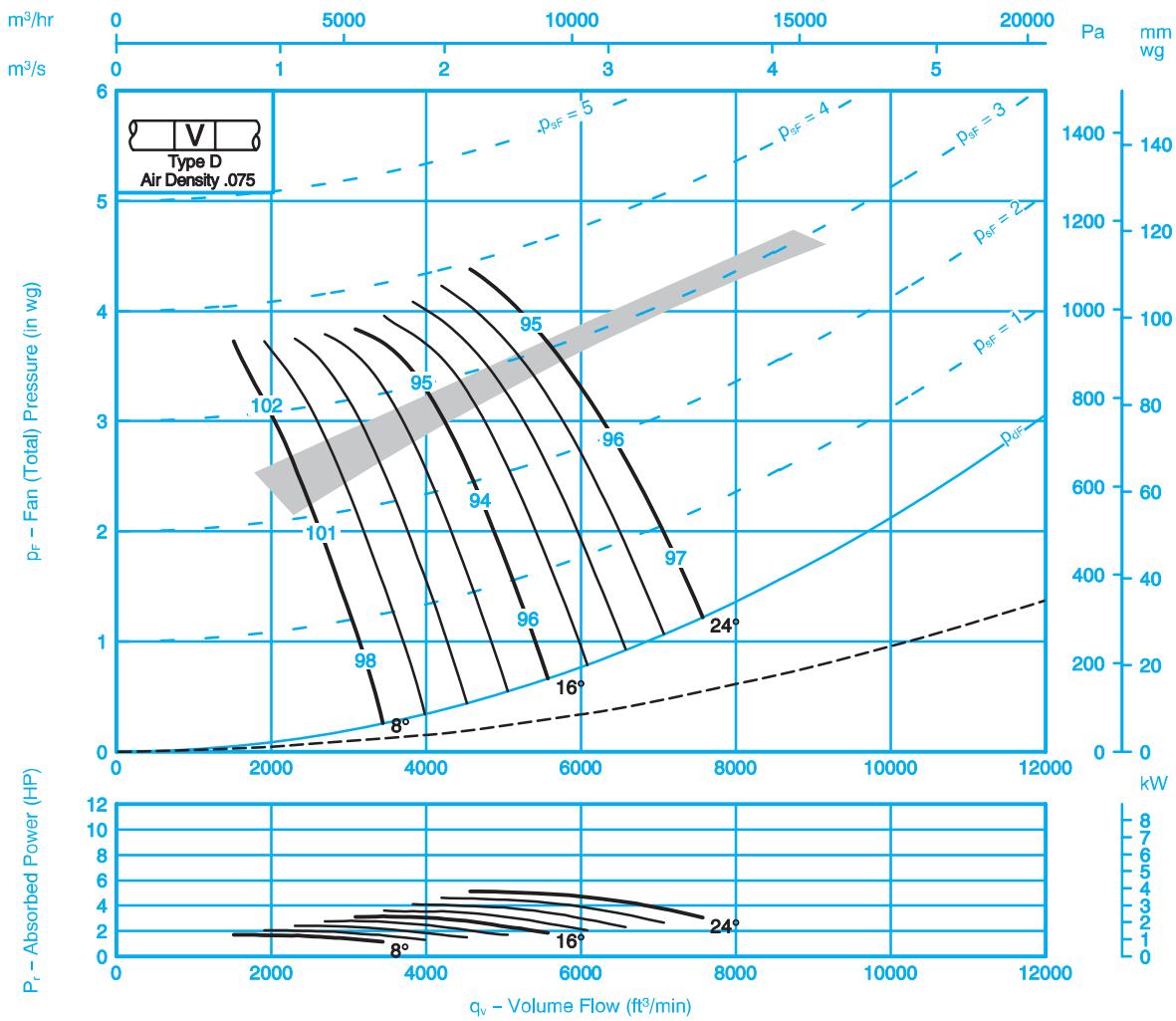
# JM AEROFOIL

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



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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							
-16	-18	-13	-9	-4	-7	-16	-24
-17	-19	-14	-8	-5	-5	-12	-17
-9	-15	-7	-8	-6	-9	-13	-17
-12	-16	-8	-8	-6	-7	-11	-14
-8	-8	-7	-9	-7	-10	-15	-18
-8	-9	-7	-9	-8	-9	-14	-17

Outlet Levels							
-13	-17	-11	-8	-3	-5	-15	-21
-15	-19	-12	-8	-5	-4	-11	-15
-8	-15	-6	-8	-5	-8	-12	-16
-10	-15	-6	-7	-6	-7	-11	-13
-7	-7	-6	-9	-7	-9	-13	-17
-6	-9	-5	-8	-8	-9	-13	-16

SK10280

End Reflection Correction (dB)							
-10	-5	-2	0	0	0	0	0

C-19

Bulletin JMA60-05 July 2005



# JM AEROFOIL

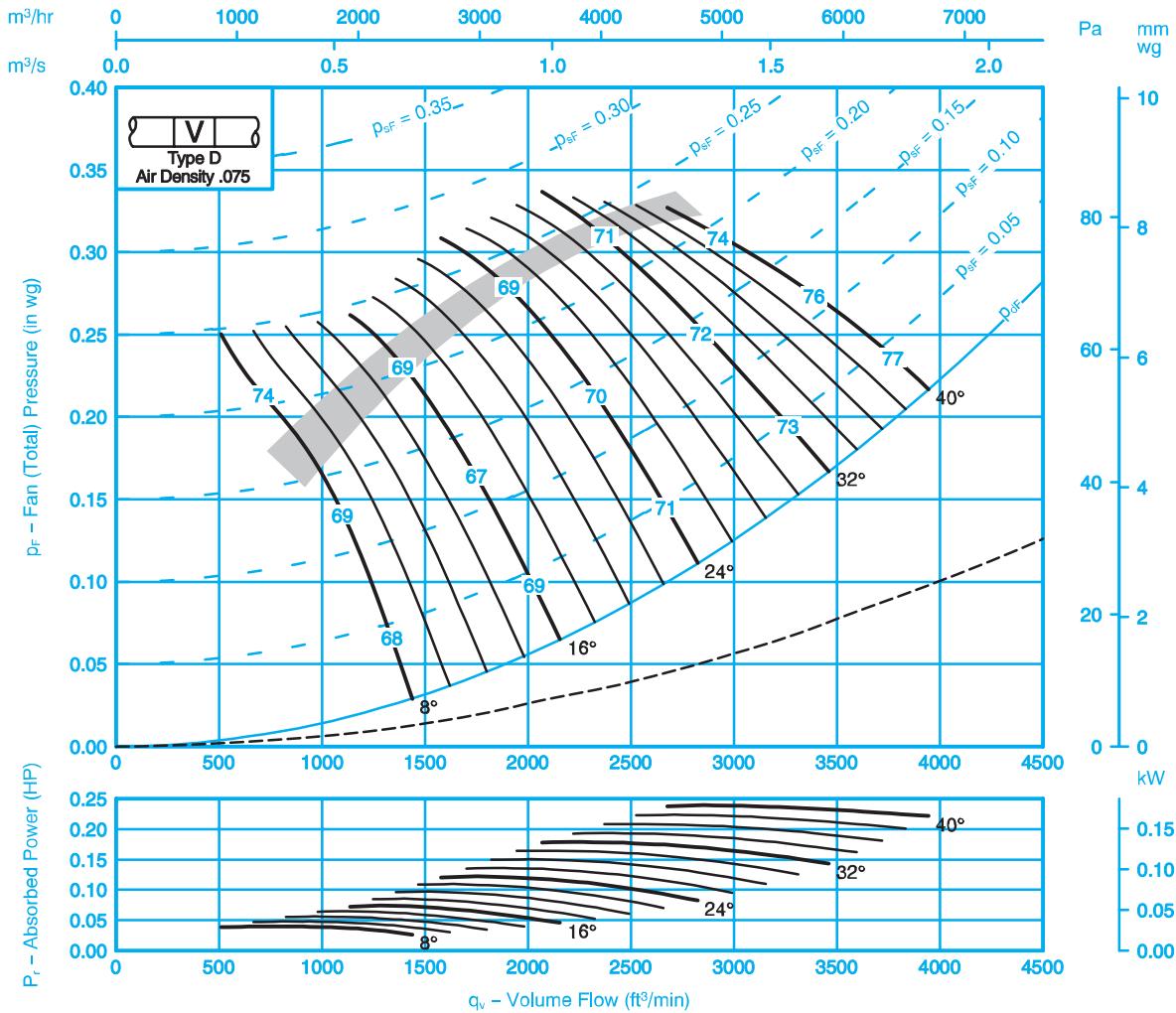
**Fan Code: 50JM/16/8/5/...**  
**500 mm 875 RPM**  
**5 Blades 60 Hz**



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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								
	-8 -7	-9 -10	-4 -7	-7 -5	-13 -9	-20 -14	-27 -21	-36 -29
	-6 -3	-9 -8	-5 -9	-7 -11	-11 -12	-17 -15	-24 -21	-31 -27
	-3 -3	-8 -8	-9 -9	-10 -11	-12 -14	-15 -17	-19 -22	-23 -27

Outlet Levels								
	-6 -6	-9 -10	-3 -7	-7 -5	-12 -9	-20 -13	-26 -20	-33 -27
	-6 -2	-9 -8	-5 -9	-7 -11	-11 -12	-17 -15	-23 -20	-29 -25
	-2 -2	-8 -7	-9 -9	-10 -11	-12 -14	-15 -17	-19 -21	22 -26

SK10281

End Reflection Correction (dB)							
-10	-5	-2	0	0	0	0	0



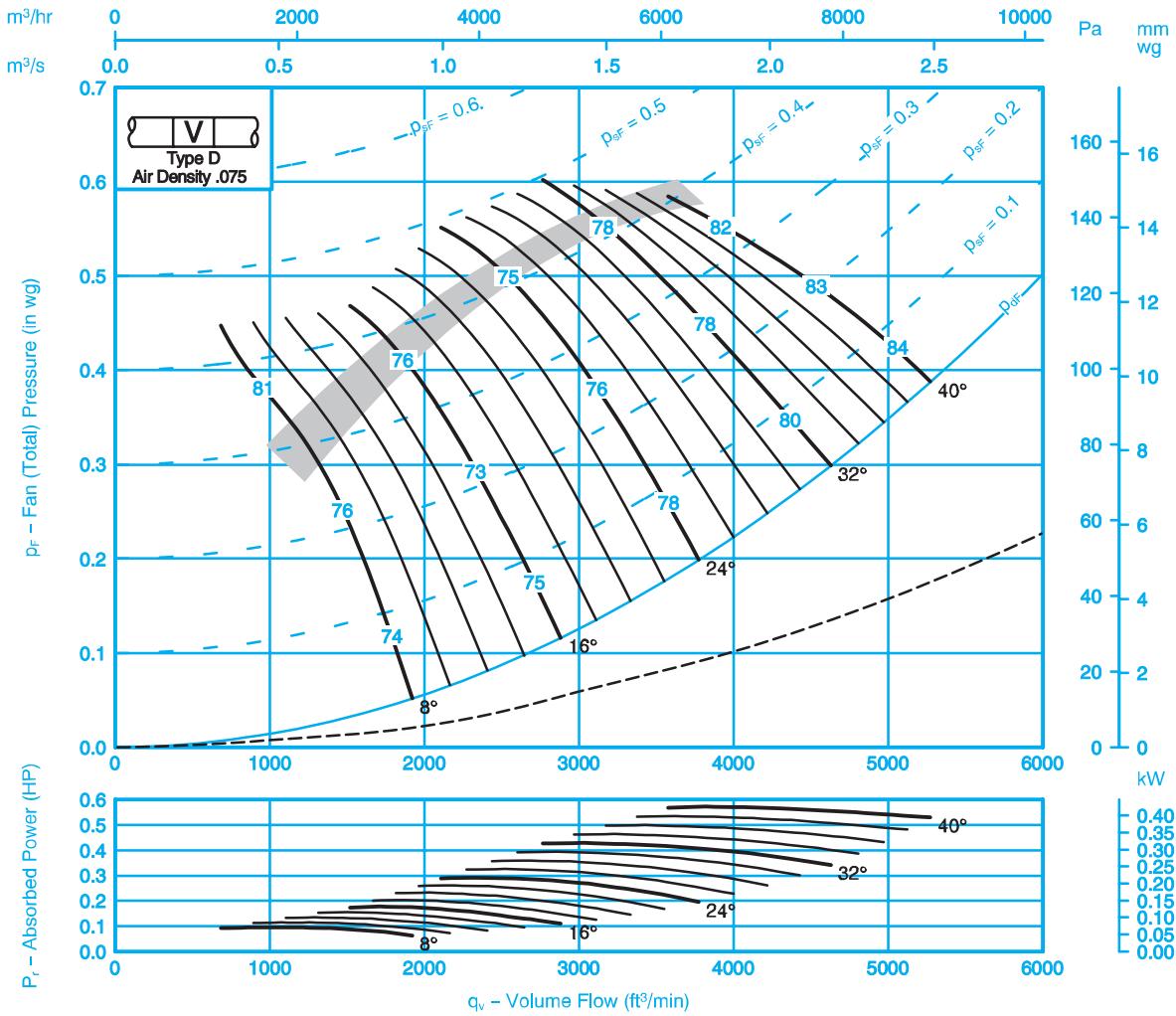
# JM AEROFOIL

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



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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							
-11	-8	-6	-4	-10	-17	-24	-32
-13	-7	-9	-5	-7	-12	-17	-25
-10	-7	-9	-4	-9	-14	-21	-28
-8	-4	-8	-9	-11	-13	-18	-24
-5	-5	9	-10	-12	-14	-18	-22
-5	-5	-8	-10	-13	-16	-20	-25

Outlet Levels							
-10	-6	-6	-4	-10	-17	-23	-30
-13	-6	-9	-5	-7	-10	-17	-24
-9	-7	-9	-4	-9	-14	-20	-26
-8	-3	-8	-9	-11	-13	-17	-23
-4	-5	-9	-9	-12	-14	-17	-21
-5	-4	-8	-10	-13	-15	-19	-24

SK10282

End Reflection Correction (dB)							
-10	-5	-2	0	0	0	0	0



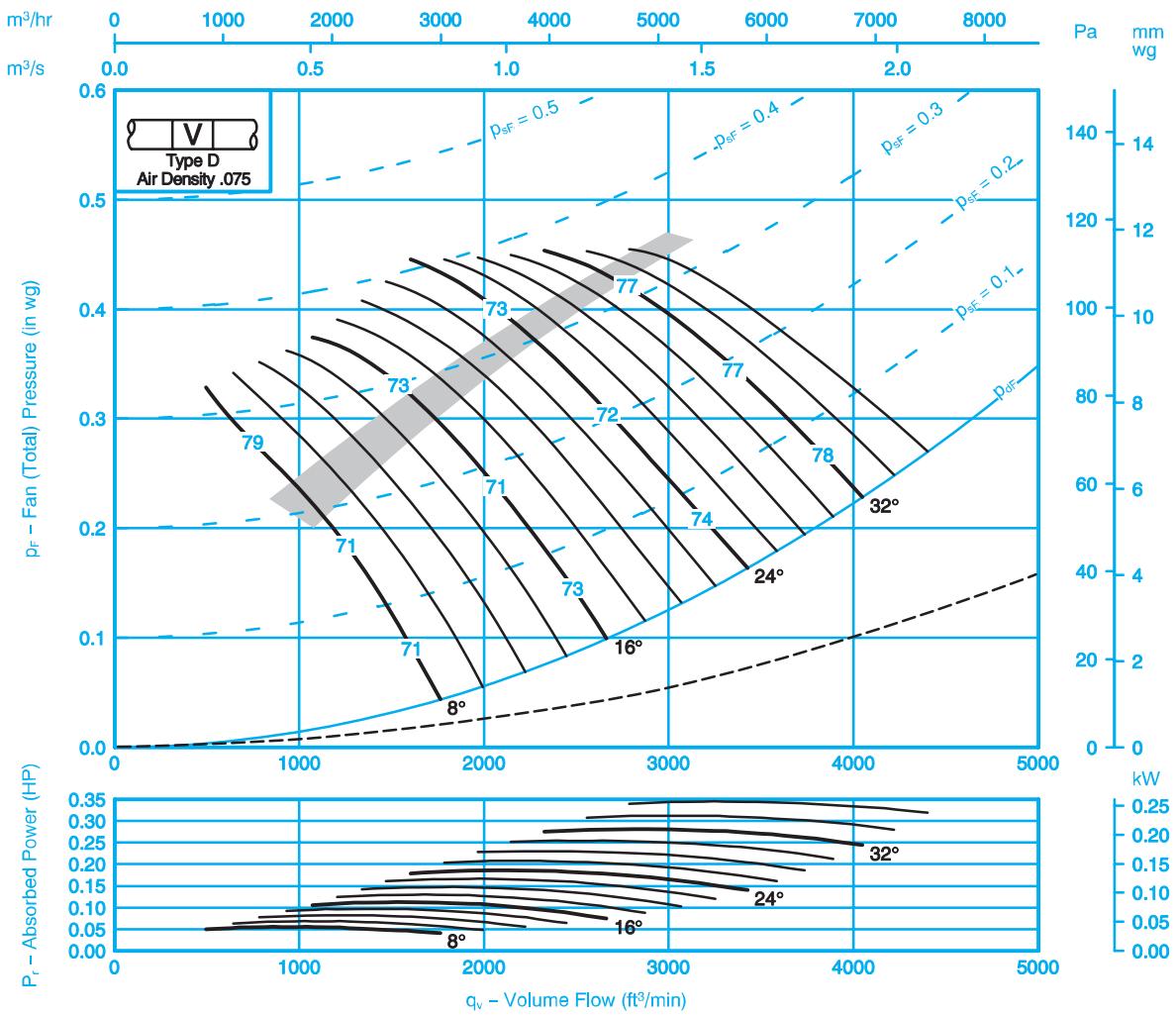
# JM AEROFOIL

Fan Code: 50JM/20/6/3/  
500 mm 1170 RPM  
3 Blades 60 Hz



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Inlet Levels								
	-16	-12	-5	-3	-10	-19	-27	
	-8	-9	-6	-6	-9	-13	-16	-20
	-8	-6	-5	-8	-13	-17	-21	-26
	-5	-7	-6	-9	-12	-17	-19	-24
	-5	-6	-7	-10	-12	-16	-19	-23
	-4	-7	-7	-10	-13	-17	-21	-26

Outlet Levels								
	-13	-12	-5	-3	-10	-19	-26	
	-5	-9	-6	-6	-9	-13	-14	-18
	-6	-6	-5	-8	-13	-16	-20	-25
	-3	-7	-6	-8	-12	-16	-18	-23
	-3	-6	-7	-9	-12	-15	-17	-21
	-1	-7	-7	-10	-13	-17	-20	-24

SK10283

End Reflection Correction (dB)							
-10	-5	-2	0	0	0	0	0



# JM AEROFOIL

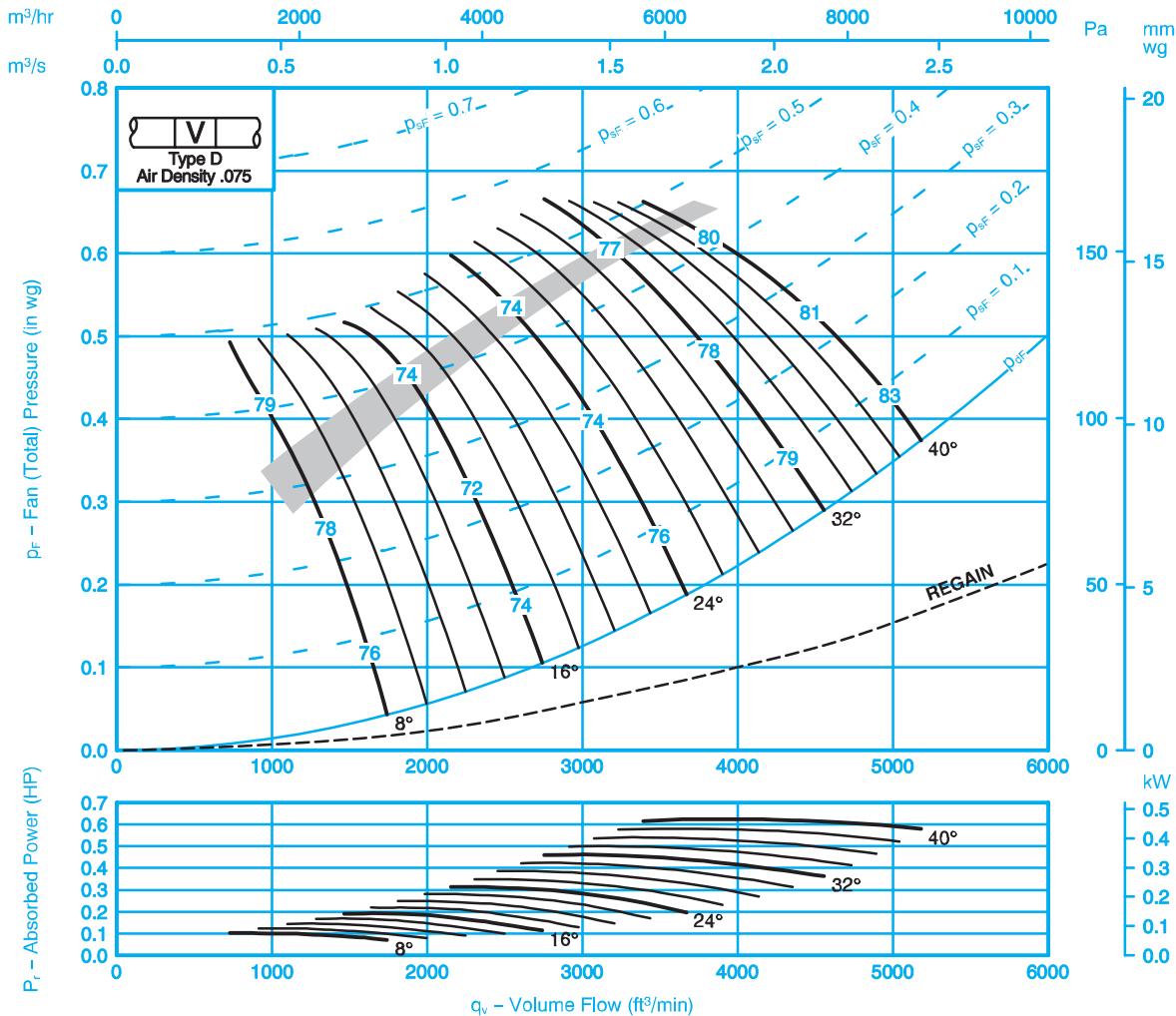
Fan Code: 50JM/20/6/6/...  
**500 mm 1170 RPM**  
**6 Blades 60 Hz**



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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.

Inlet Levels								
Pitch Angle	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

Outlet Levels								
Pitch Angle	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

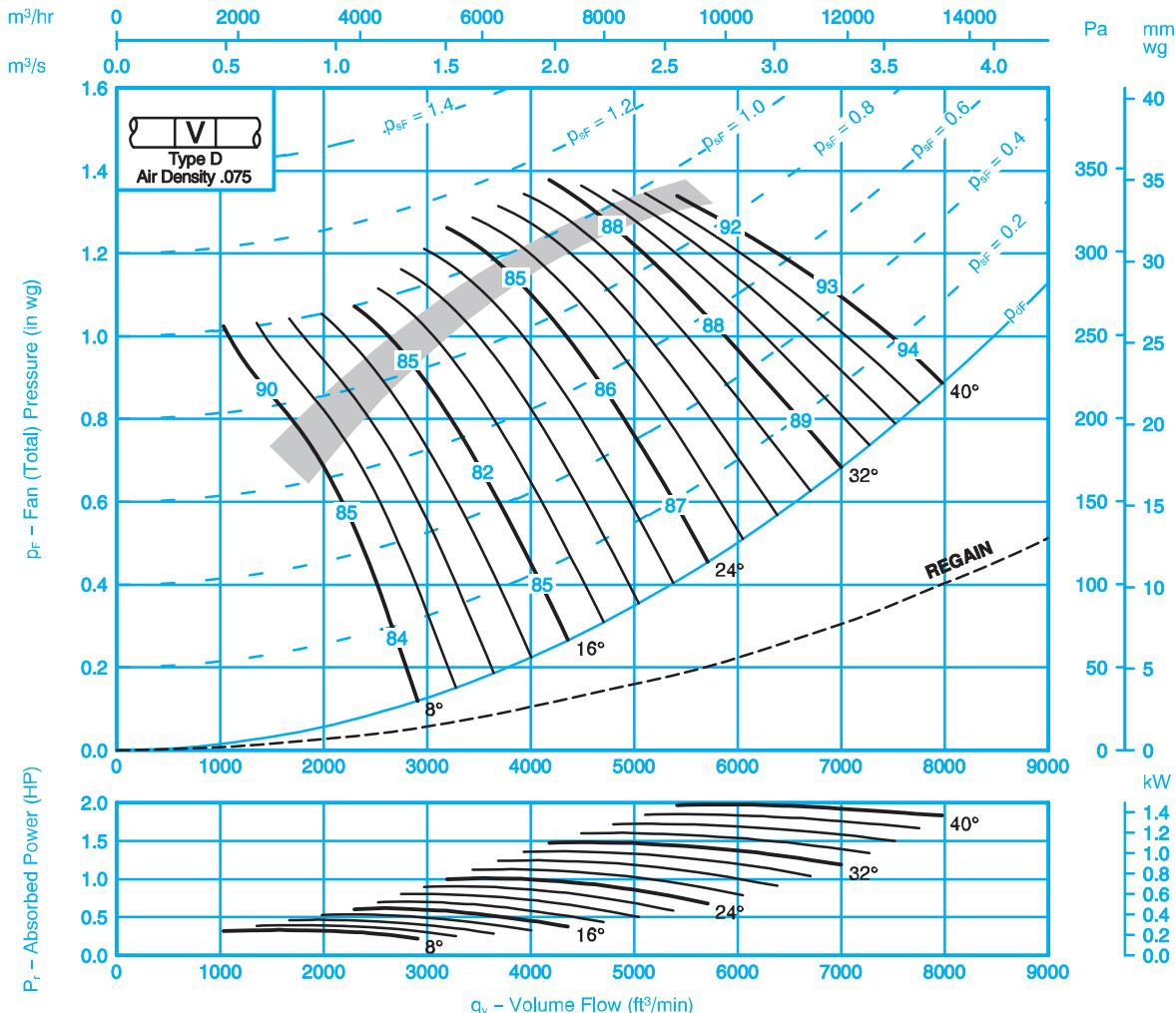
Fan Code: 50JM/16/4/5/...  
**500 mm 1770 RPM**  
**5 Blades 60 Hz**



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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	-10	-12	-15	-17
	-6	-3	-9	-10	-12	-15	-16	-21

SK10285

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



# JM AEROFOIL

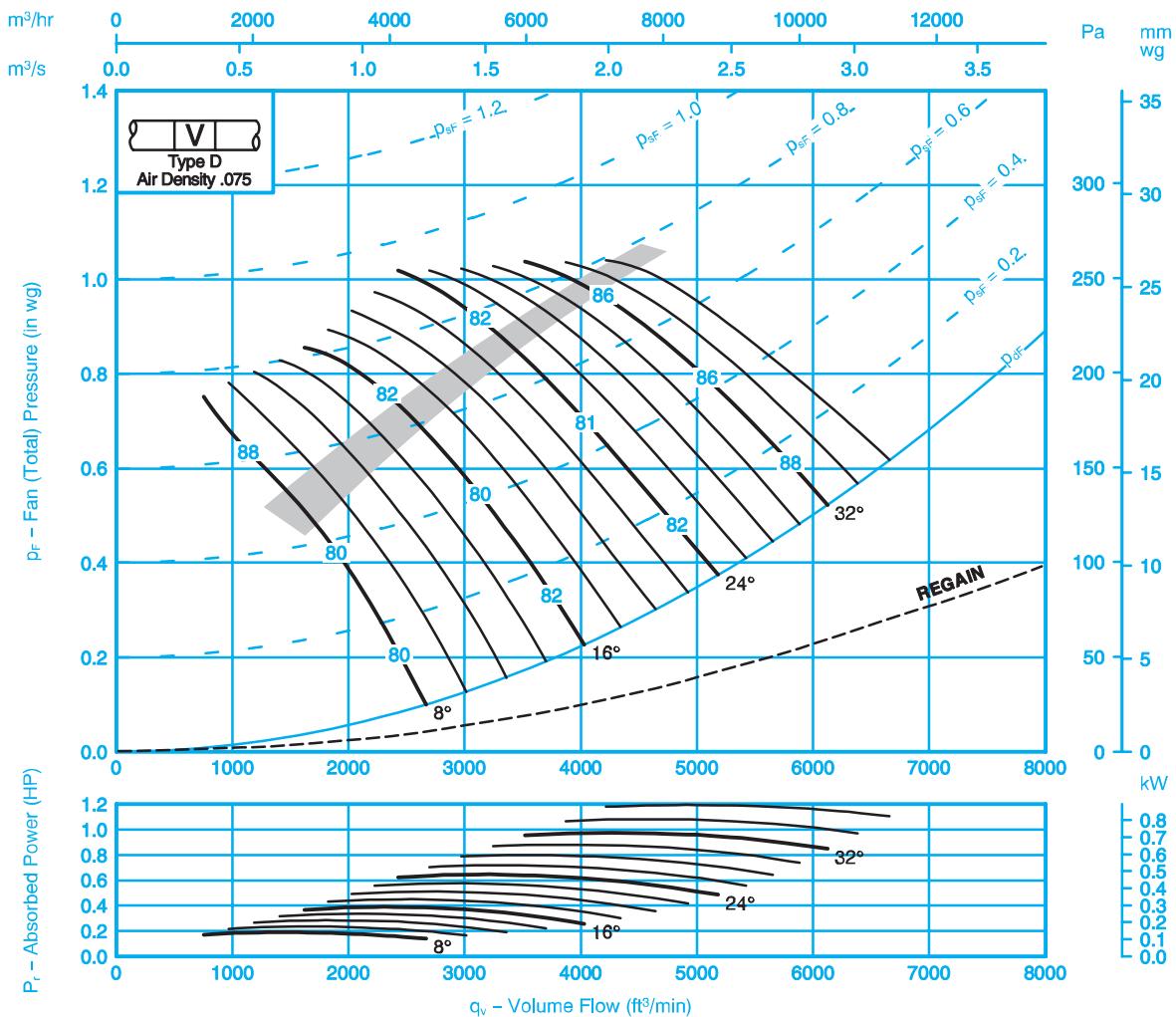
Fan Code: 50JM/20/4/3/  
500 mm 1770 RPM  
3 Blades 60 Hz



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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

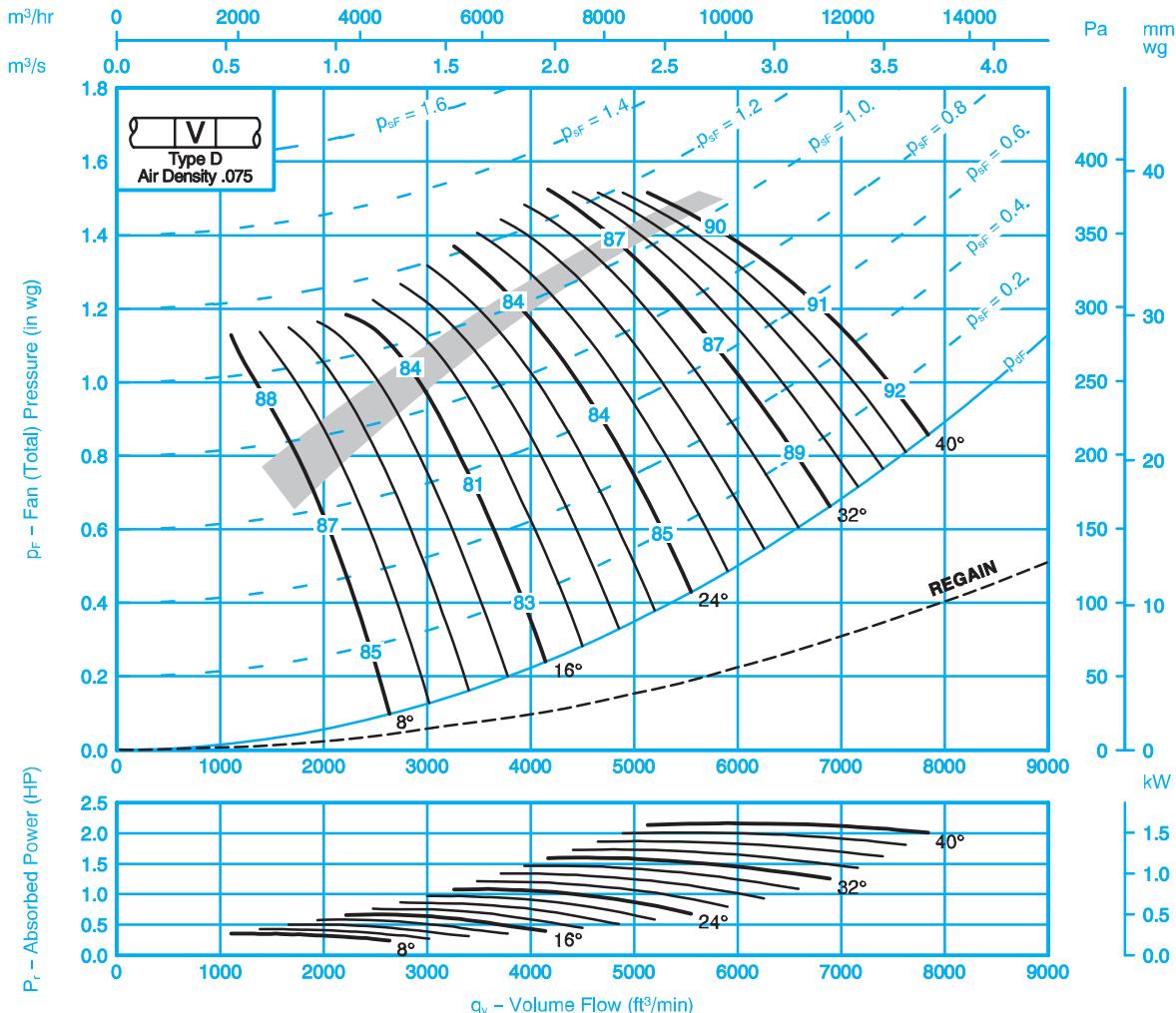
Fan Code: 50JM/20/4/6/...  
**500 mm 1770 RPM**  
**6 Blades 60 Hz**



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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

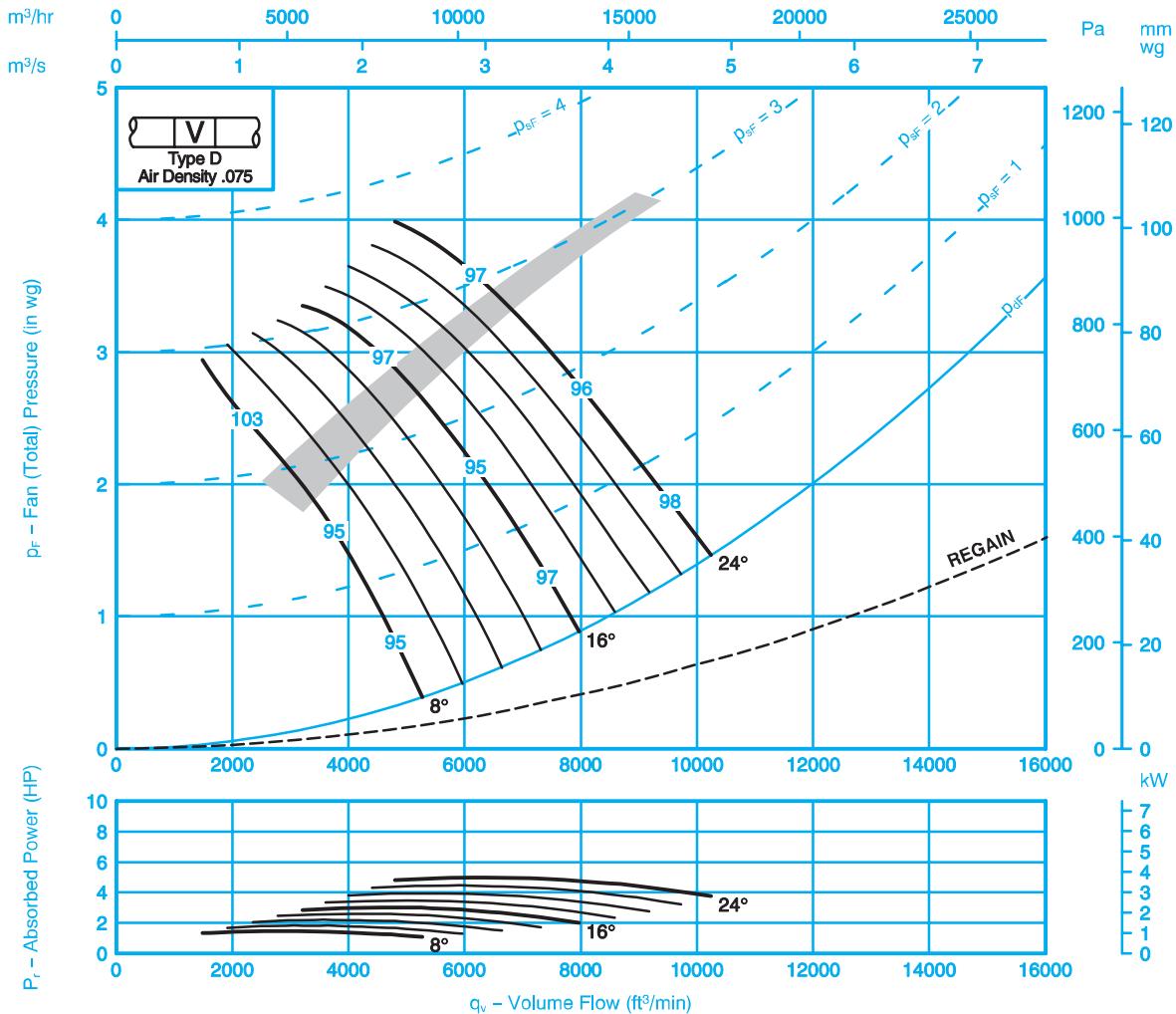
Fan Code: 50JM/20/2/3/  
500 mm 3500 RPM  
3 Blades 60 Hz



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°	-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	-17
	-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

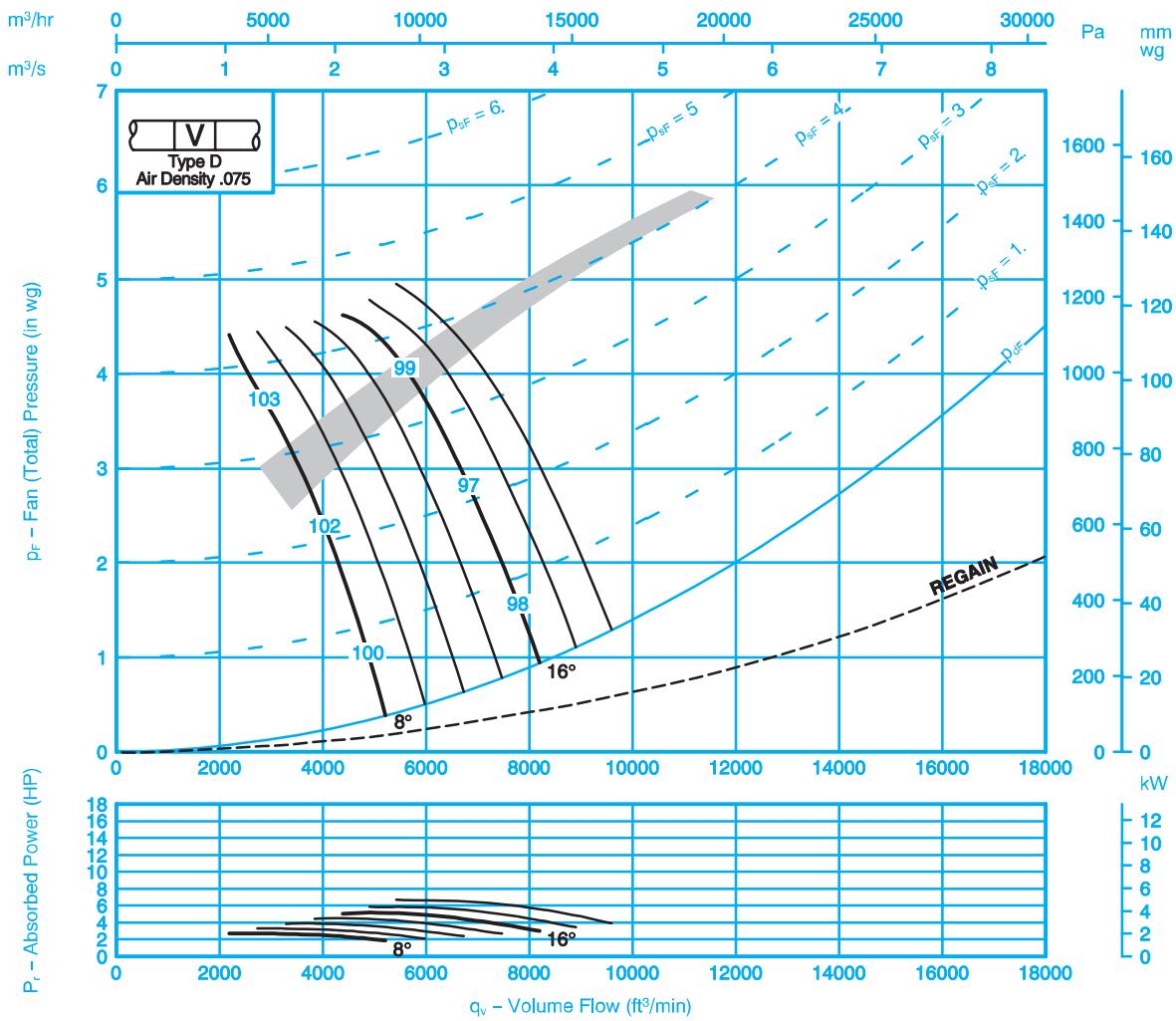
Fan Code: 50JM/20/2/6/...  
**500 mm 3500 RPM**  
**6 Blades 60 Hz**



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Pitch Angle	Inlet Levels							
	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

Pitch Angle	Outlet Levels							
	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

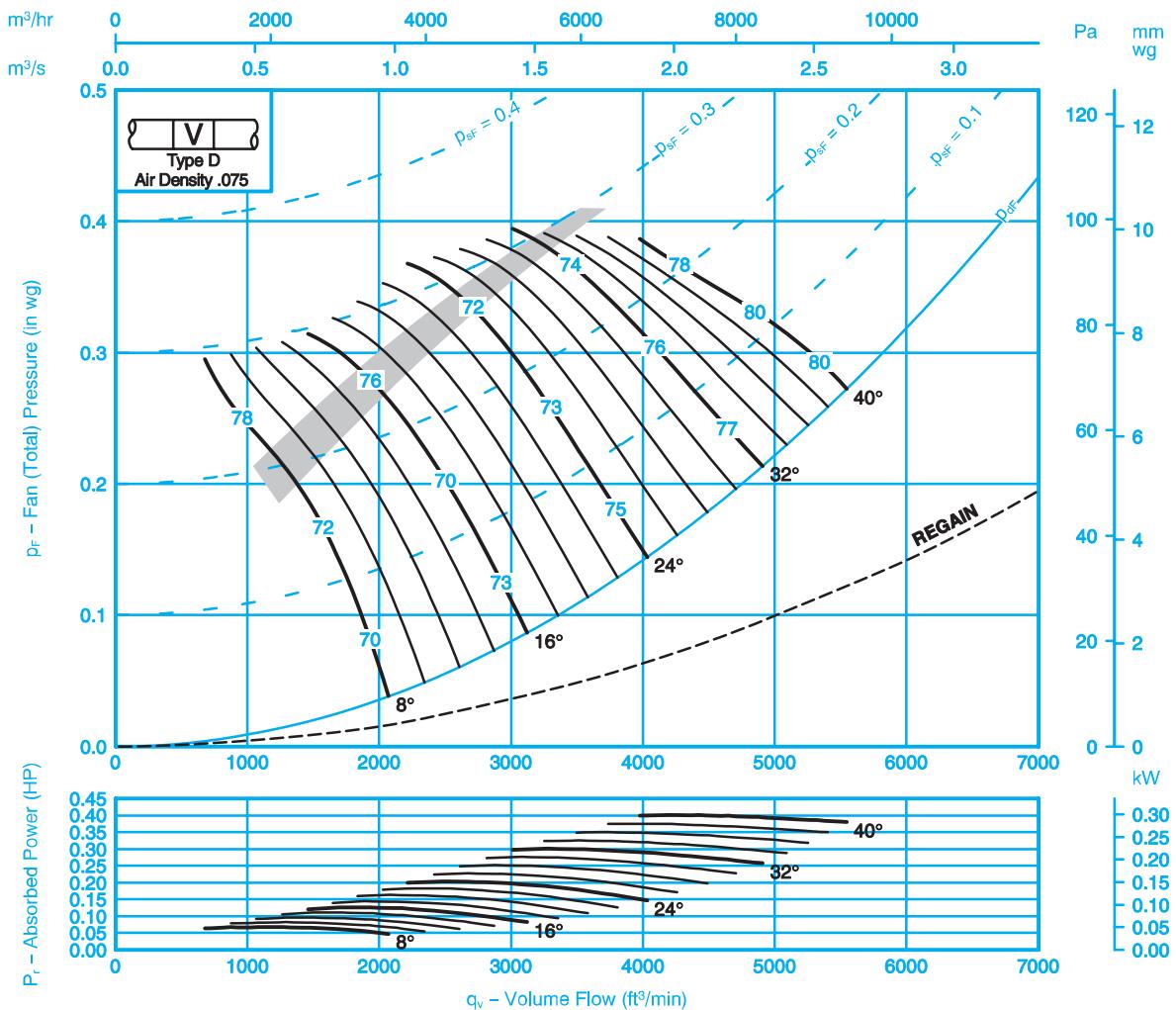
Fan Code: 56JM/16/8/5/...  
**560 mm 875 RPM**  
**5 Blades 60 Hz**



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°	-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

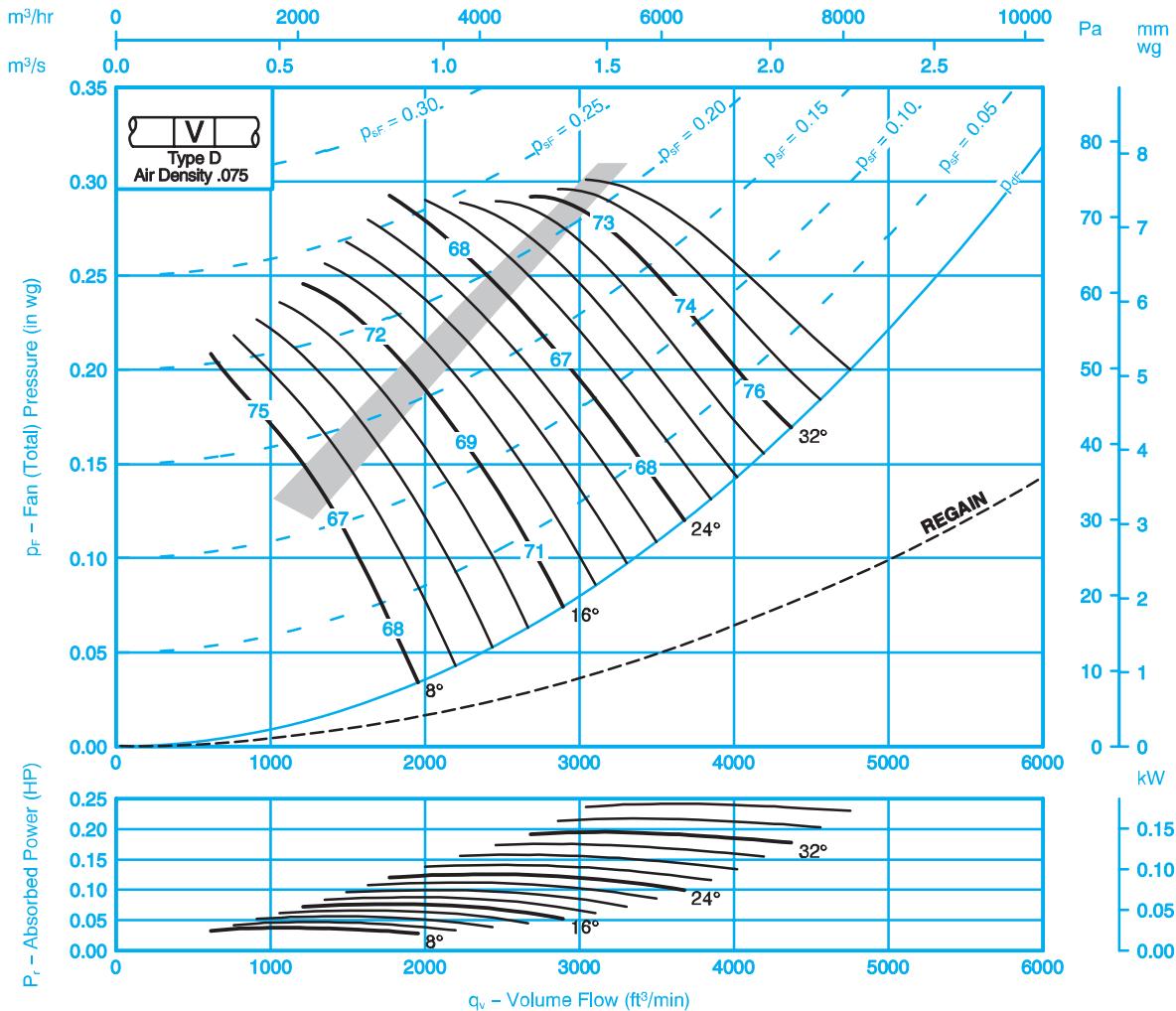
Fan Code: 56JM/20/8/3/  
560 mm 875 RPM  
3 Blades 60 Hz



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**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	-10	-4	-4	-13	-21	-30	-40
	-5	-7	-7	-7	-12	-14	-17	-21
16°	-6	-5	-6	-10	-16	-18	-22	-27
	-4	-6	-8	-10	-16	-18	-22	-27
24-36°	-5	-6	-8	-9	-14	-17	-21	-25
	-3	-6	-8	-10	-16	-19	-23	-28

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

SK10291

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



# JM AEROFOIL

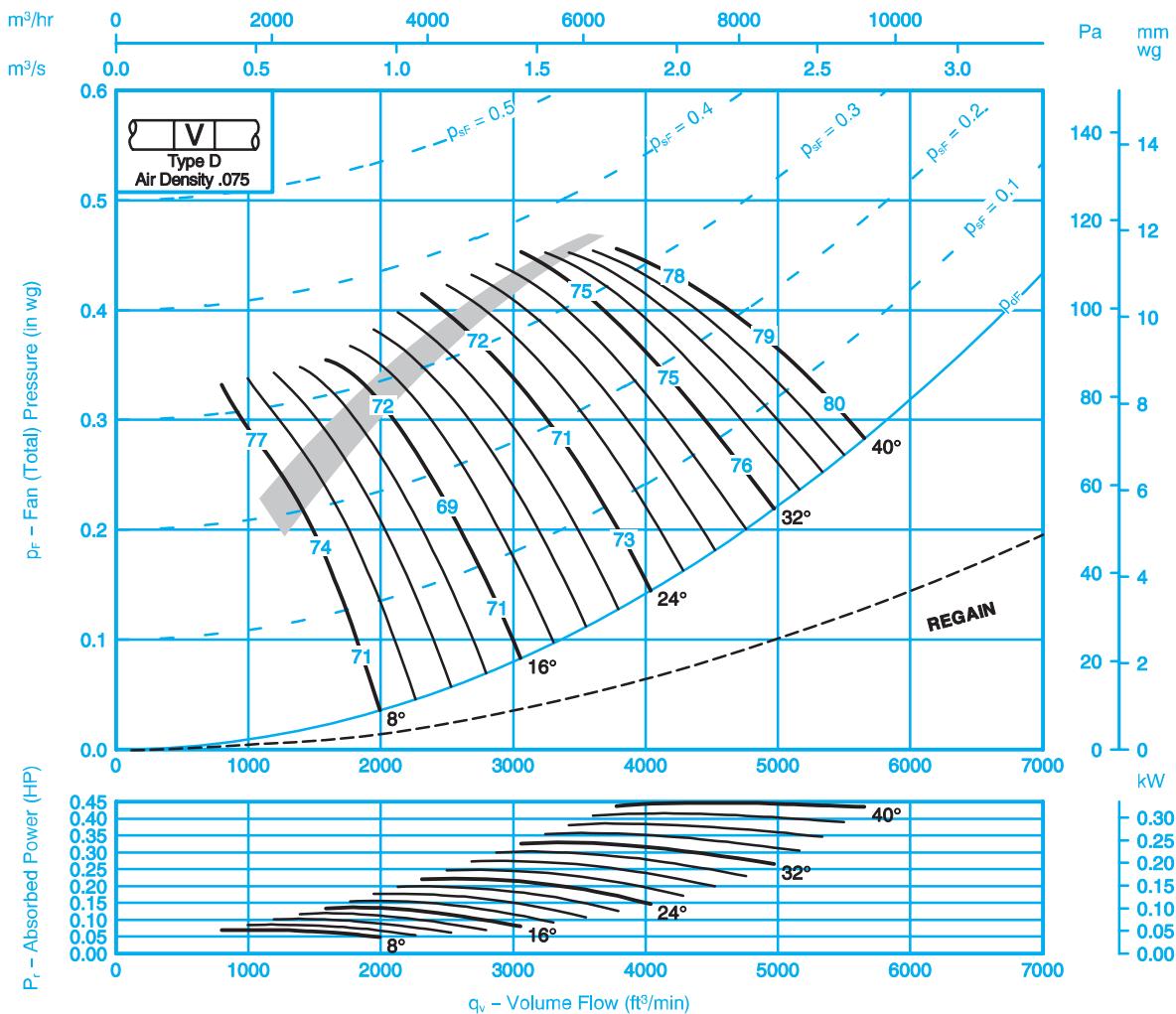
Fan Code: 56JM/20/8/6/...  
**560 mm 875 RPM**  
**6 Blades 60 Hz**



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**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	-14	-6	-3	-11	-20	-29	-40
	-11	-10	-7	-3	-10	-15	-20	-26
16°	-6	-9	-5	-7	-13	-17	-24	-31
	-5	-8	-6	-8	-13	-15	-18	-23
24-40°	-4	-9	-7	-10	-12	-15	-18	-22
	-3	-8	-7	-10	-13	-17	-21	-25

Pitch Angle	Outlet Levels							
	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-13	-6	-3	-11	-20	-29	-38
	-9	-9	-7	-3	-10	-14	-19	-24
16°	-4	-9	-5	-7	-12	-17	-23	-30
	-3	-7	-6	-8	-13	-15	-18	-22
24-40°	-2	-8	-7	-9	-12	-14	-17	-20
	-1	-7	-7	-10	-13	-16	-20	-24

SK10292

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



# JM AEROFOIL

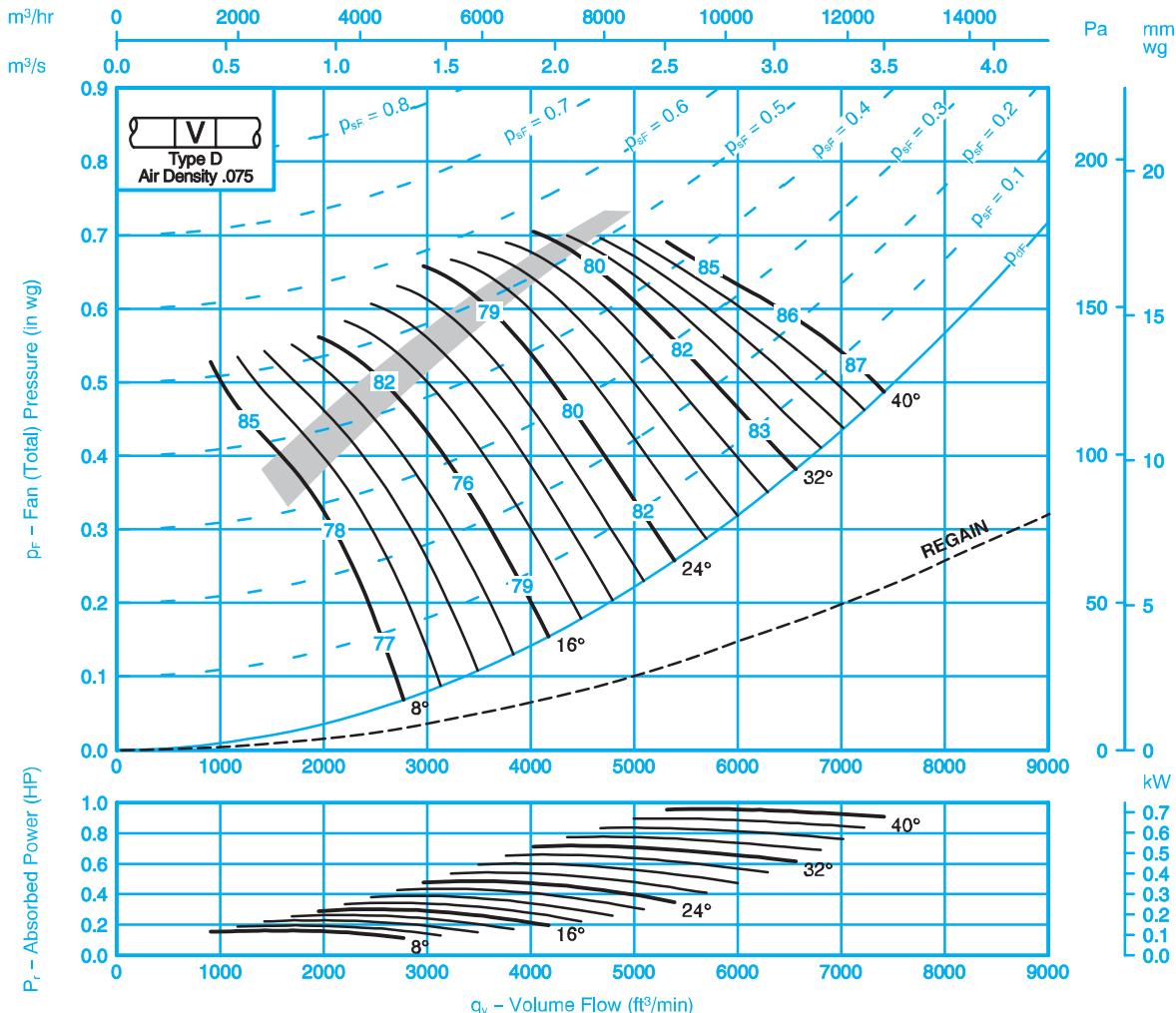
Fan Code: 56JM/16/6/5/...  
**560 mm 1170 RPM**  
**5 Blades 60 Hz**



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**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	-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

Pitch Angle	Outlet Levels							
	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	-9	-11	-14	-20
	-5	-4	-8	-9	-13	-16	-19	-23

SK10283

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



# JM AEROFOIL

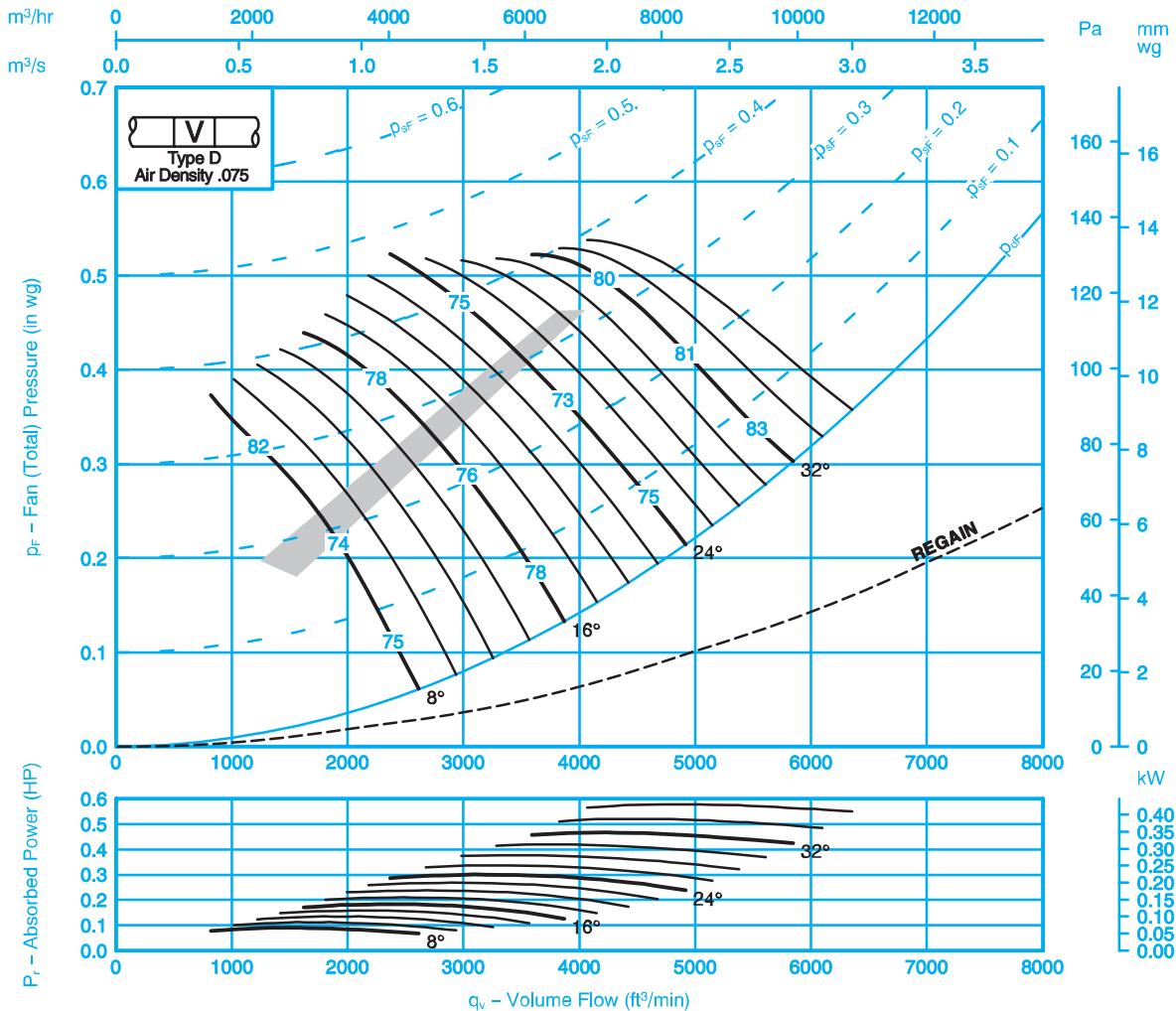
Fan Code: 56JM/20/6/3/...  
**560 mm 1170 RPM**  
**3 Blades 60 Hz**



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**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	-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

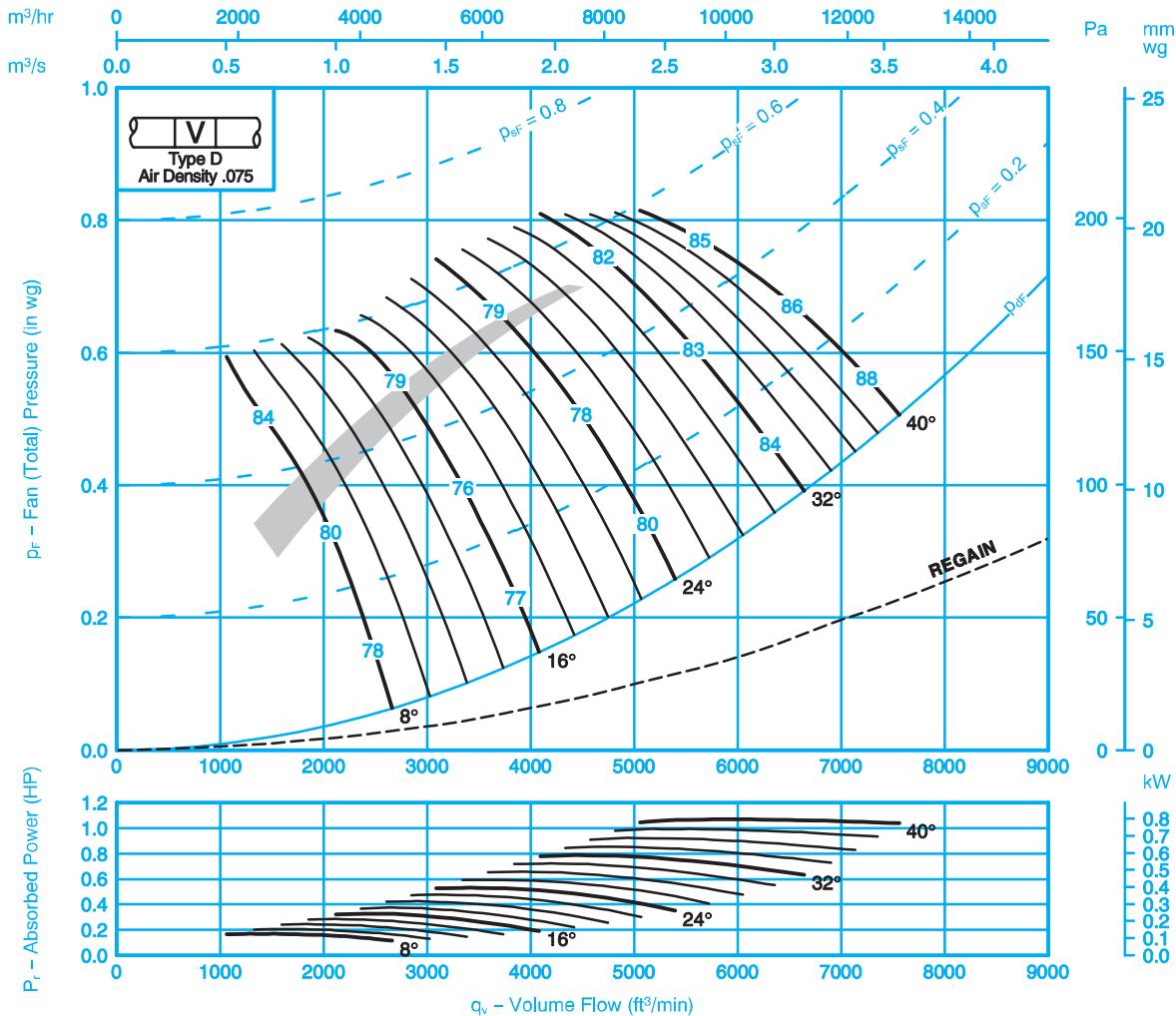
Fan Code: 56JM/20/6/6/  
560 mm 1170 RPM  
6 Blades 60 Hz



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**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	-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

Outlet Levels								
Pitch Angle	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	-17	-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

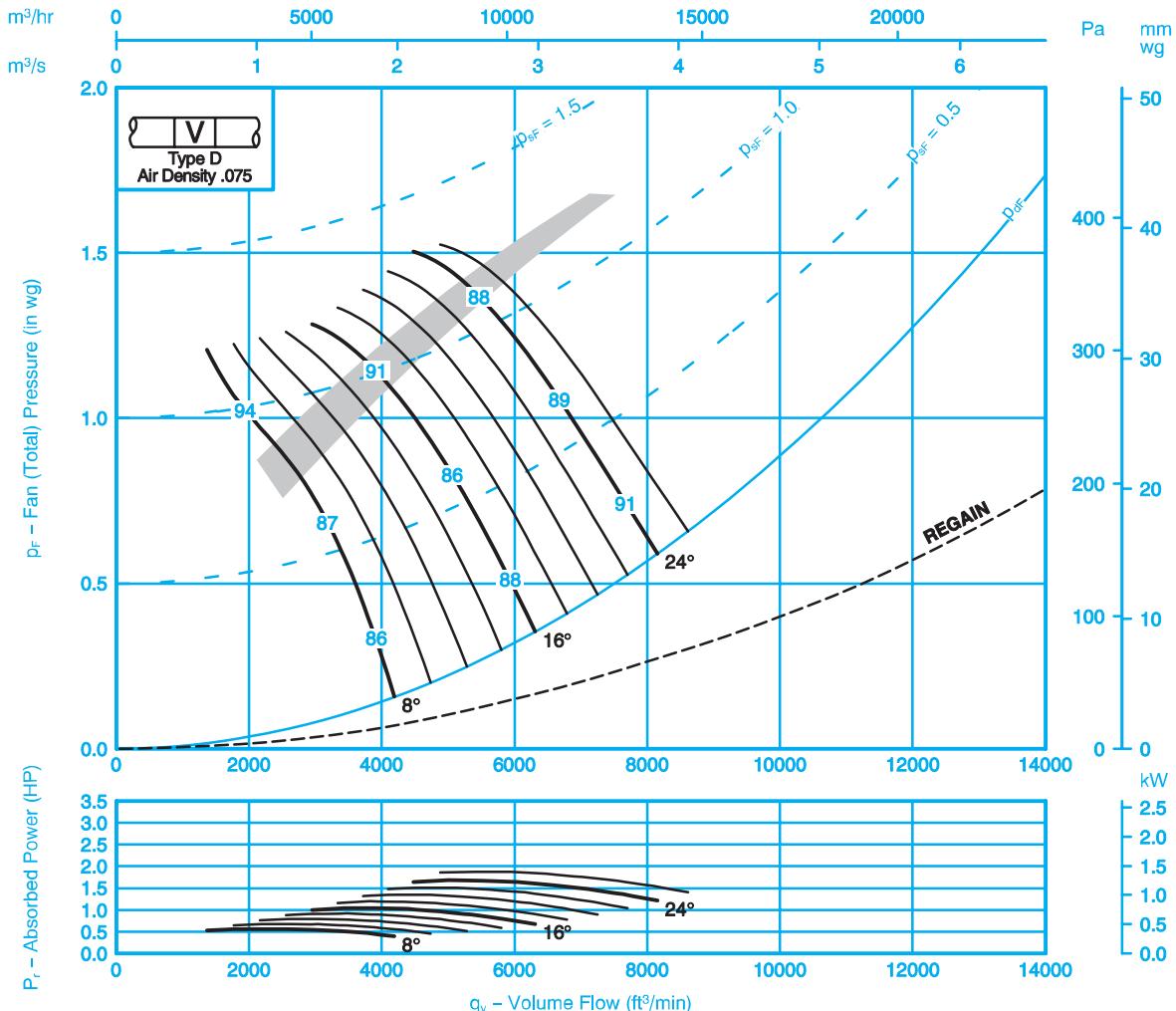
Fan Code: 56JM/16/4/5/...  
**560 mm 1770 RPM**  
**5 Blades 60 Hz**



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**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	-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

Pitch Angle	Outlet Levels							
	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

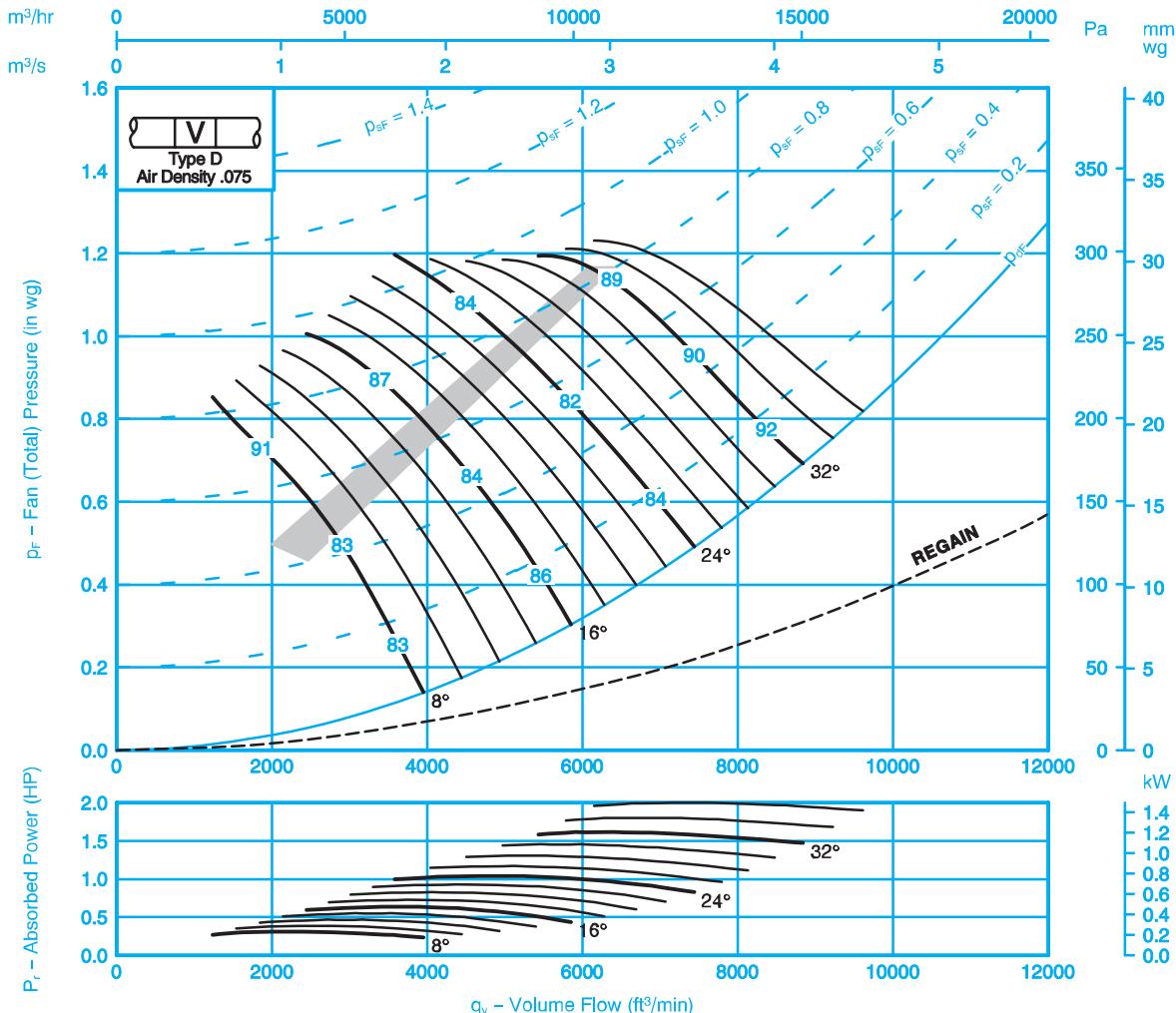
Fan Code: 56JM/20/4/3/  
560 mm 1770 RPM  
3 Blades 60 Hz



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Pitch Angle	Inlet Levels							
	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

Pitch Angle	Outlet Levels							
	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	-6	-10	-16	-22
	-2	-9	-6	-8	-8	-11	-16	-21
24-36°	-3	-9	-6	-8	-9	-9	-13	-15
	-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

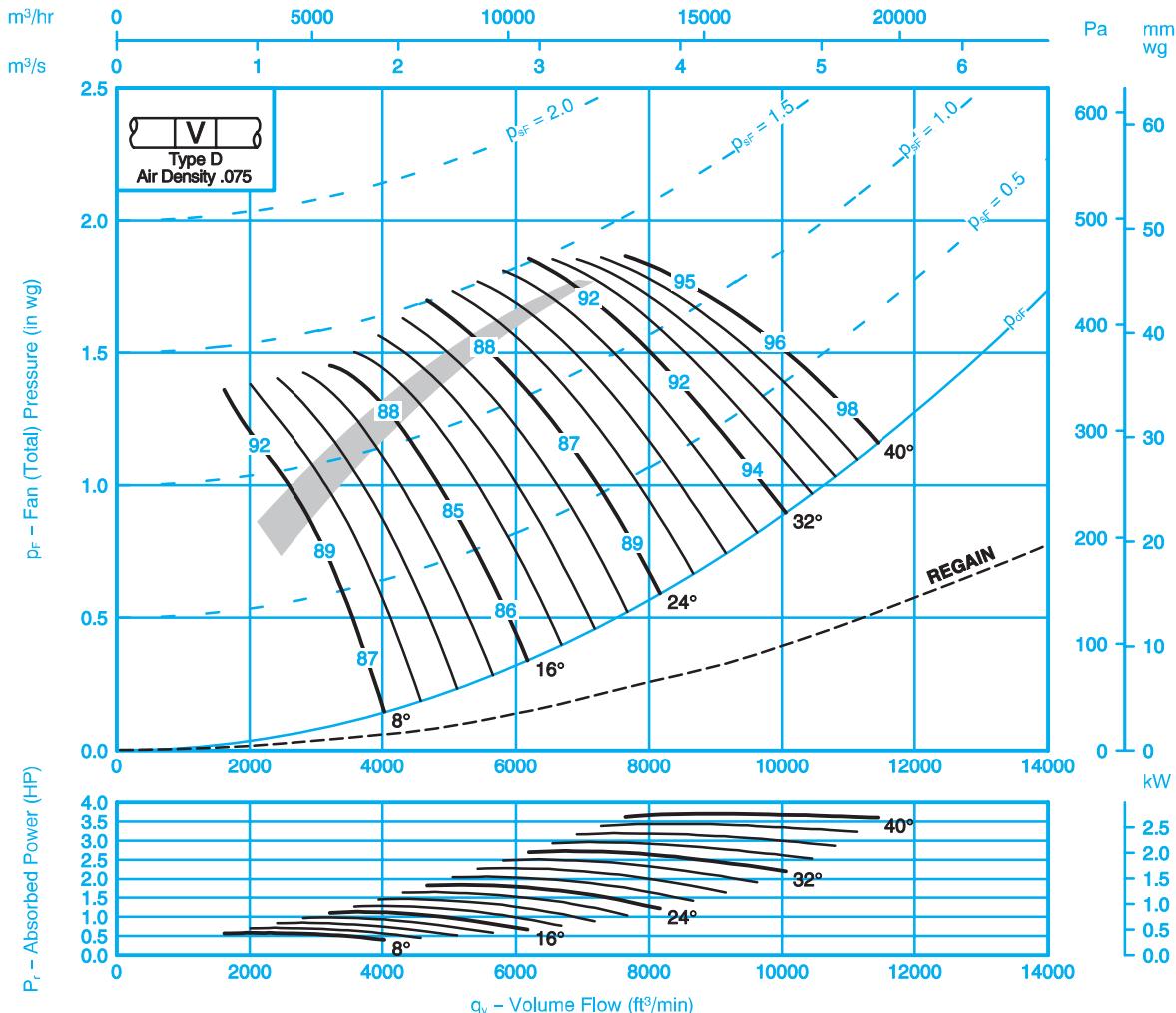
Fan Code: 56JM/20/4/6/...  
**560 mm 1770 RPM**  
**6 Blades 60 Hz**



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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	-12	-13	-15
	-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

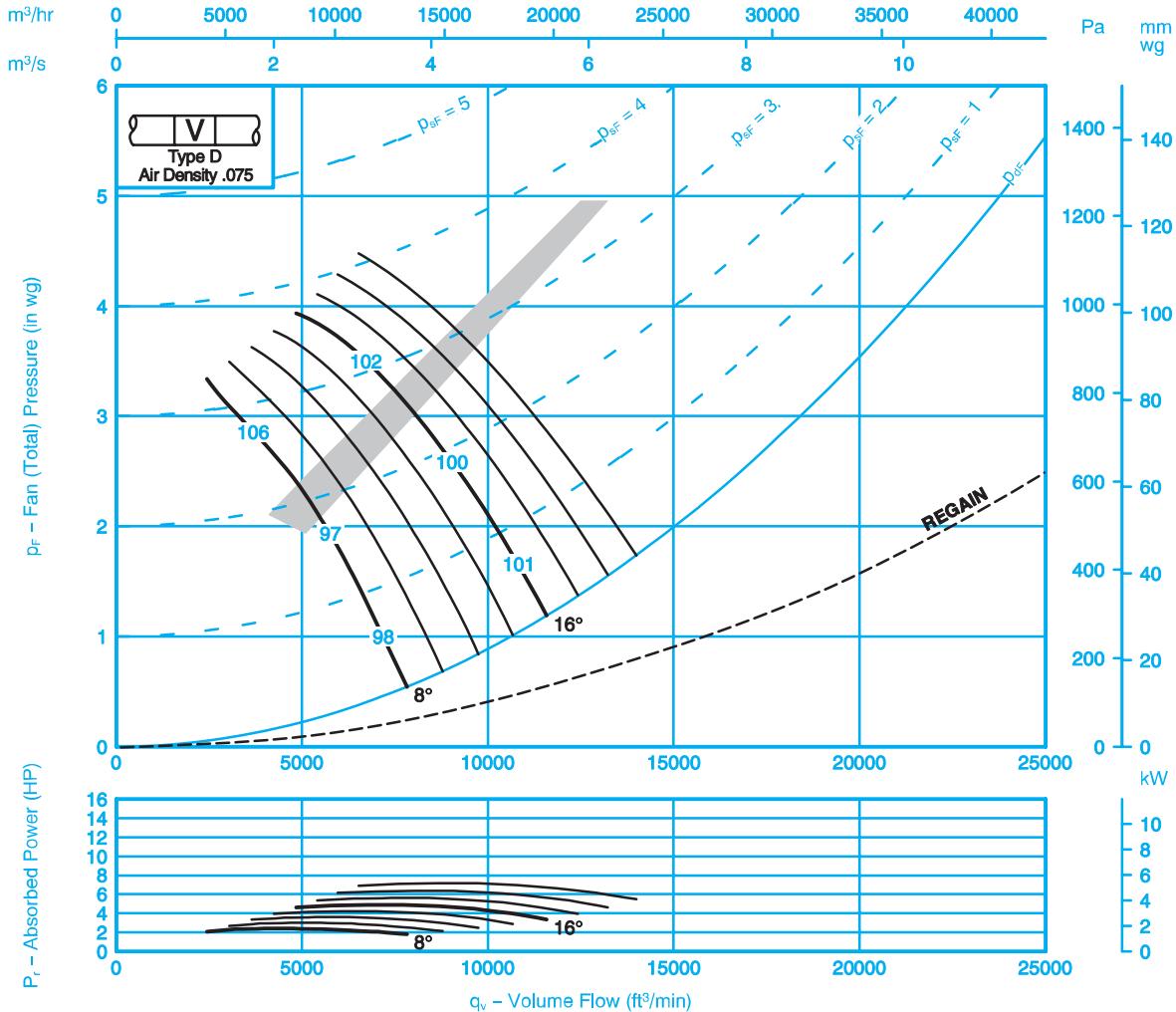
Fan Code: 56JM/20/2/3/  
560 mm 3500 RPM  
3 Blades 60 Hz



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

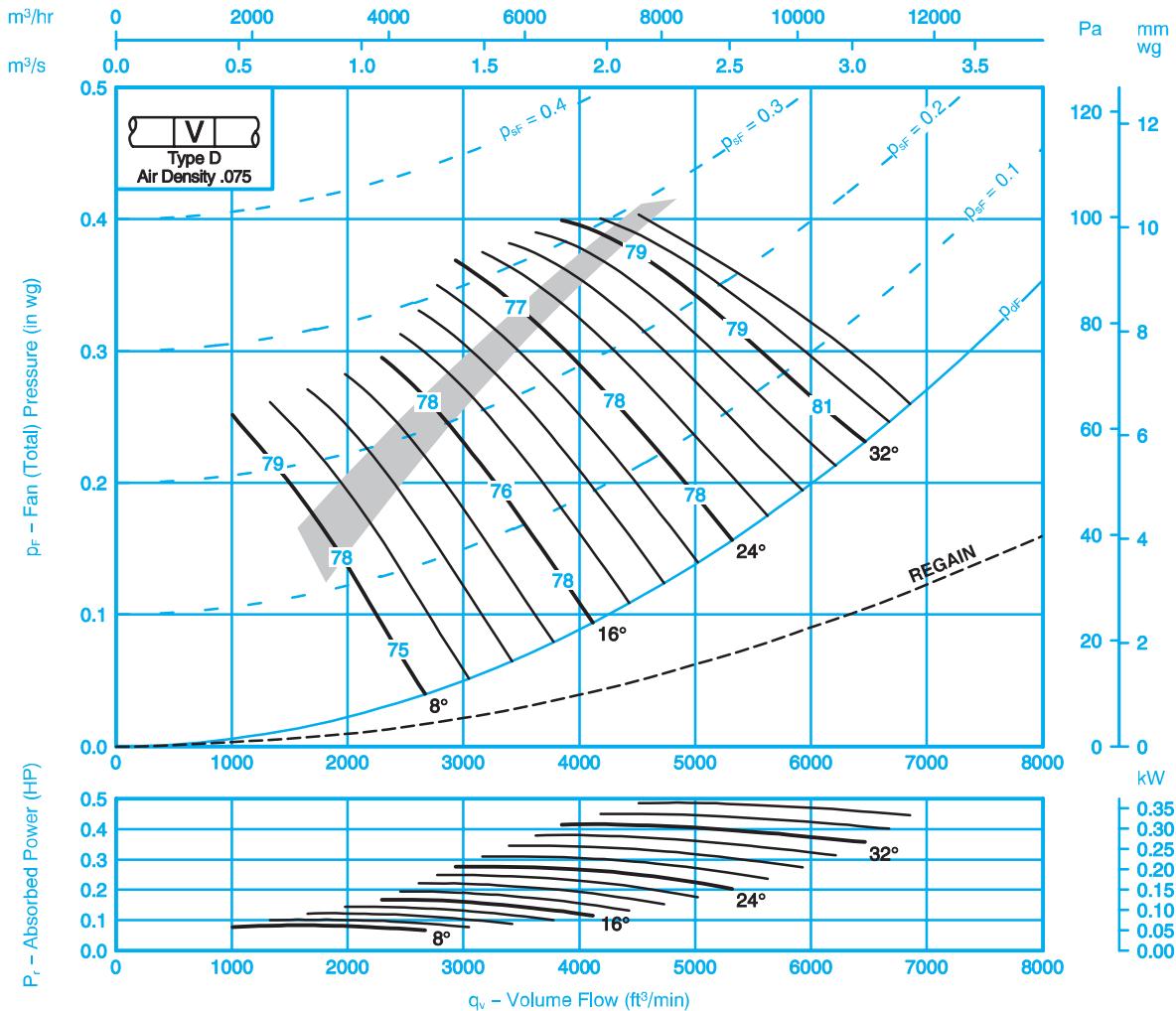
Fan Code: 63JM/20/8/3/  
630 mm 875 RPM  
3 Blades 60 Hz



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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

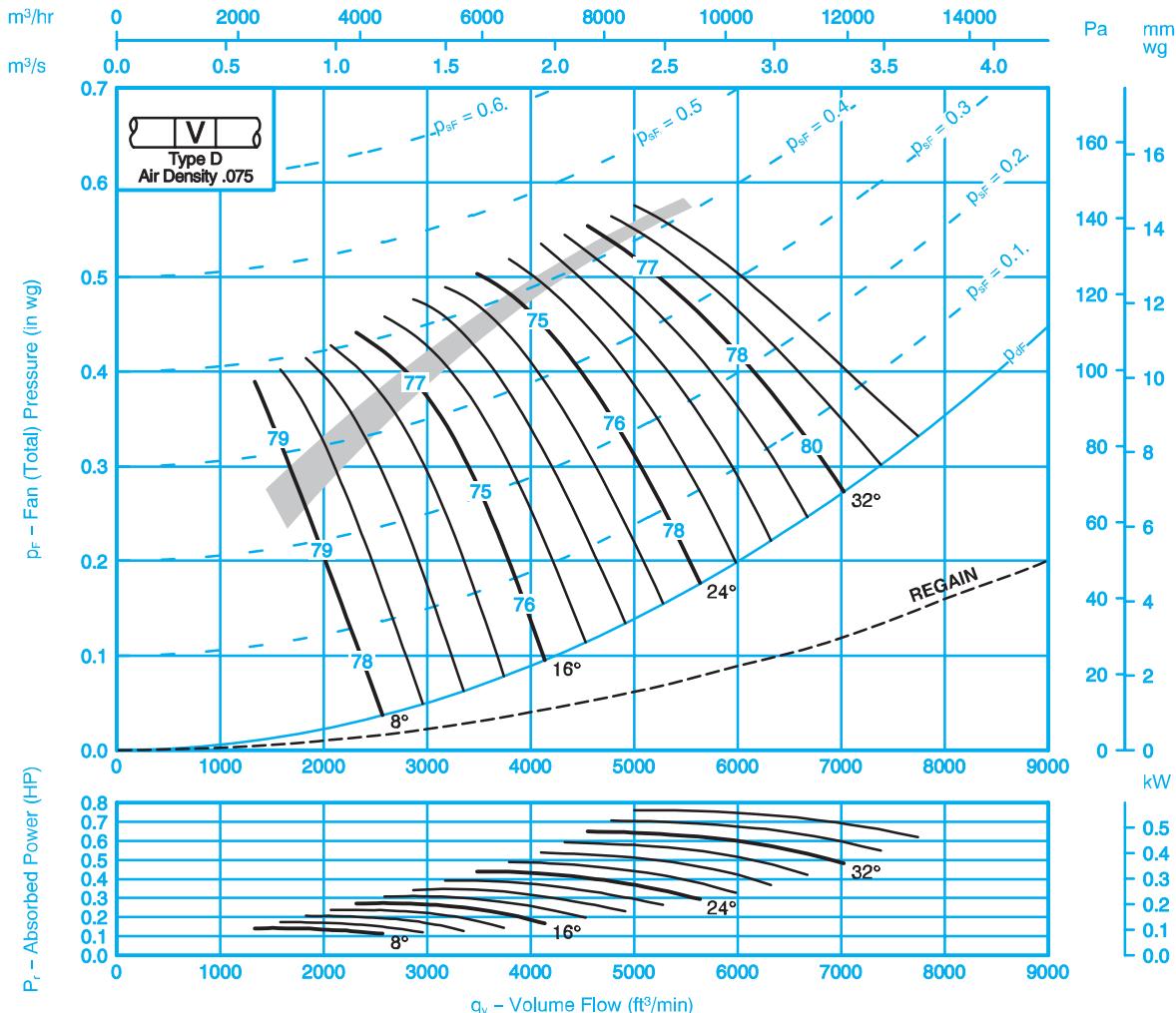
Fan Code: 63JM/20/8/6/...  
**630 mm 875 RPM**  
**6 Blades 60 Hz**



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°	-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

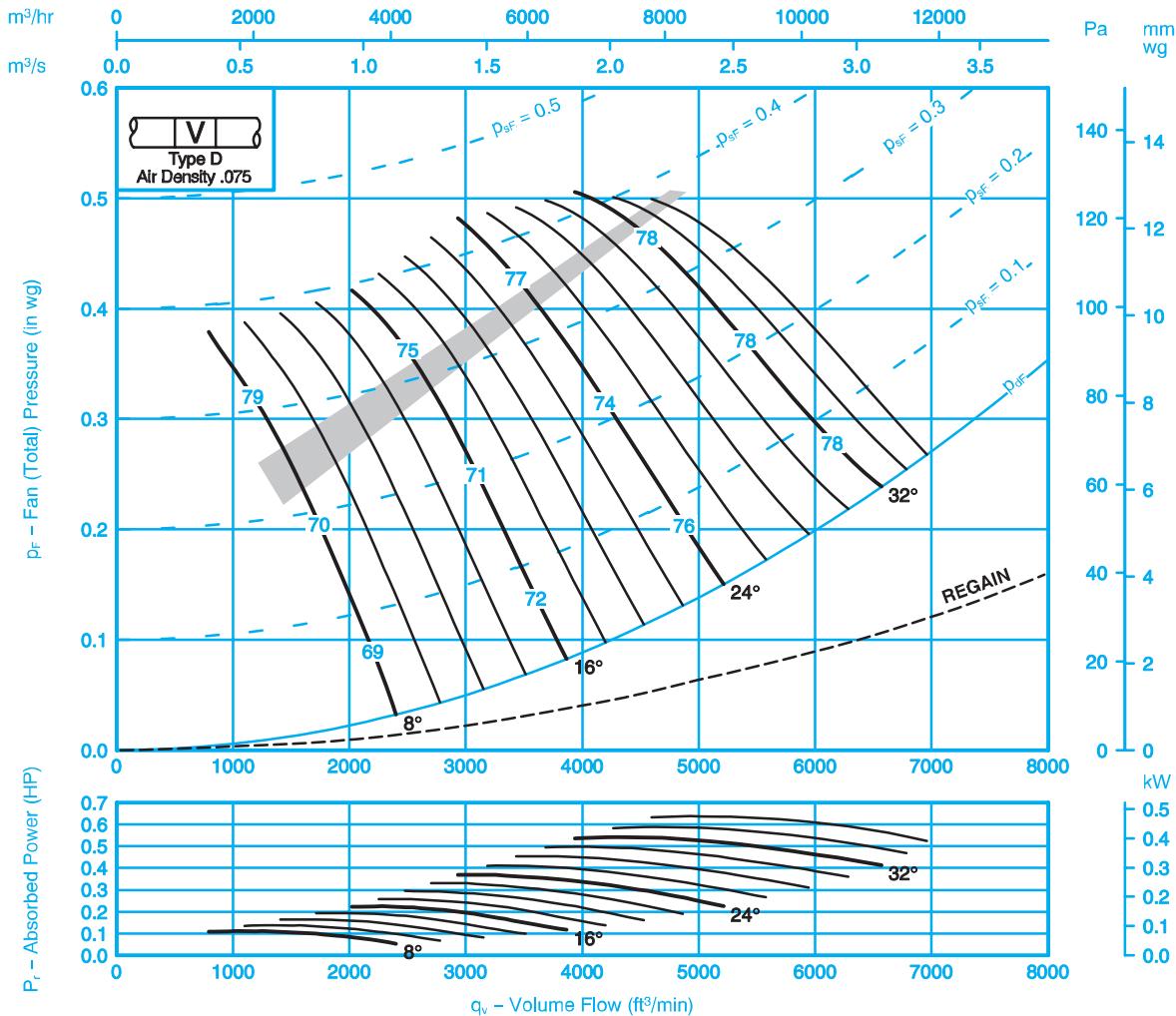
Fan Code: 63JM/25/8/6/...  
**630 mm 875 RPM**  
**6 Blades 60 Hz**



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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.

Inlet Levels								
Pitch Angle	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

Outlet Levels								
Pitch Angle	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	-10	-10	-10	-14	-21
	-2	-5	-9	-12	-13	-14	-22	-27
24-36°	-3	-5	-7	-11	-13	-13	-16	-20
	0	-5	-8	-13	-15	-18	-23	-27

SK10303

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



# JM AEROFOIL

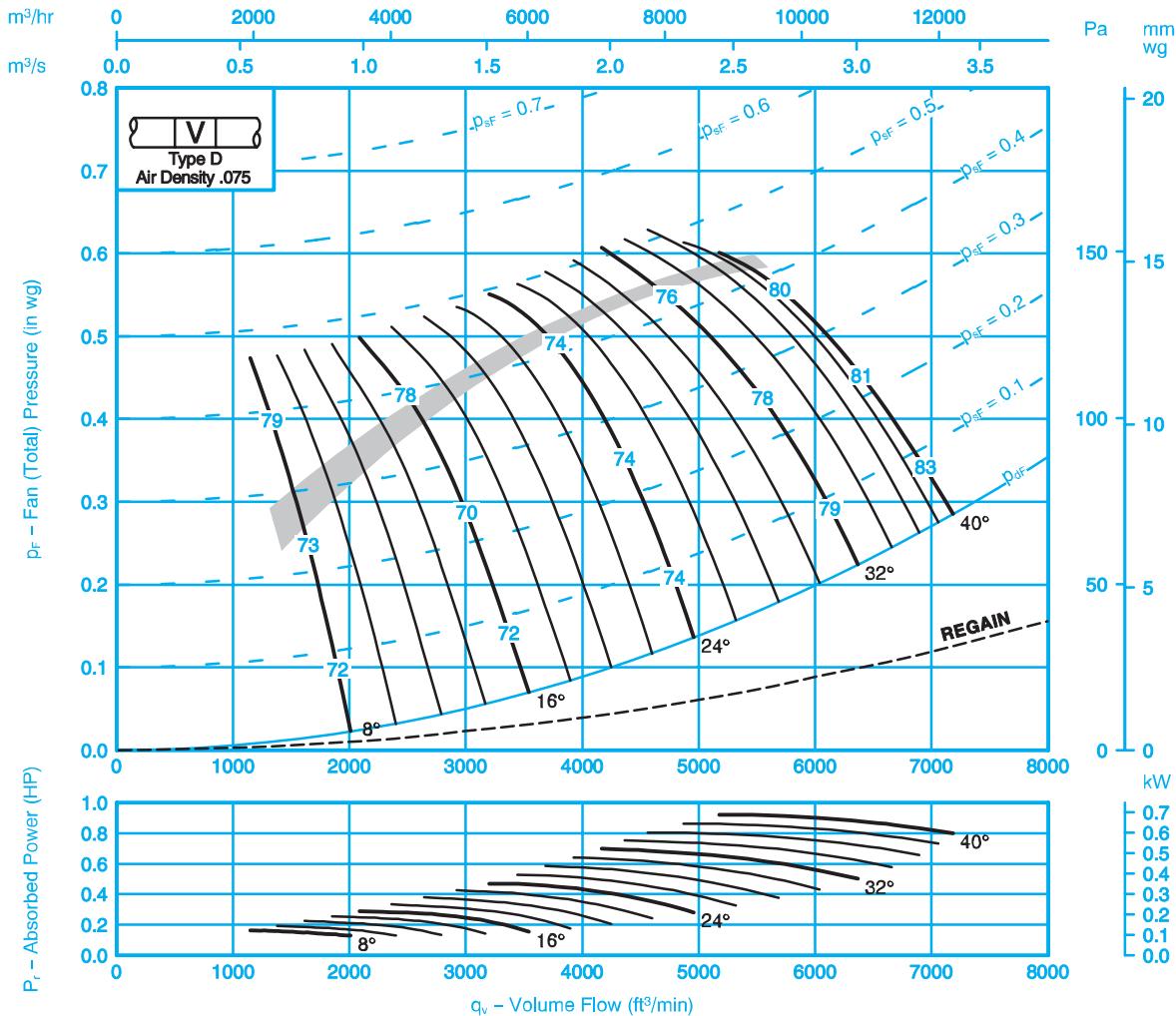
Fan Code: 63JM/25/8/9/...  
**630 mm 875 RPM**  
**9 Blades 60 Hz**



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**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°	-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

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	-17	-24	-31
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

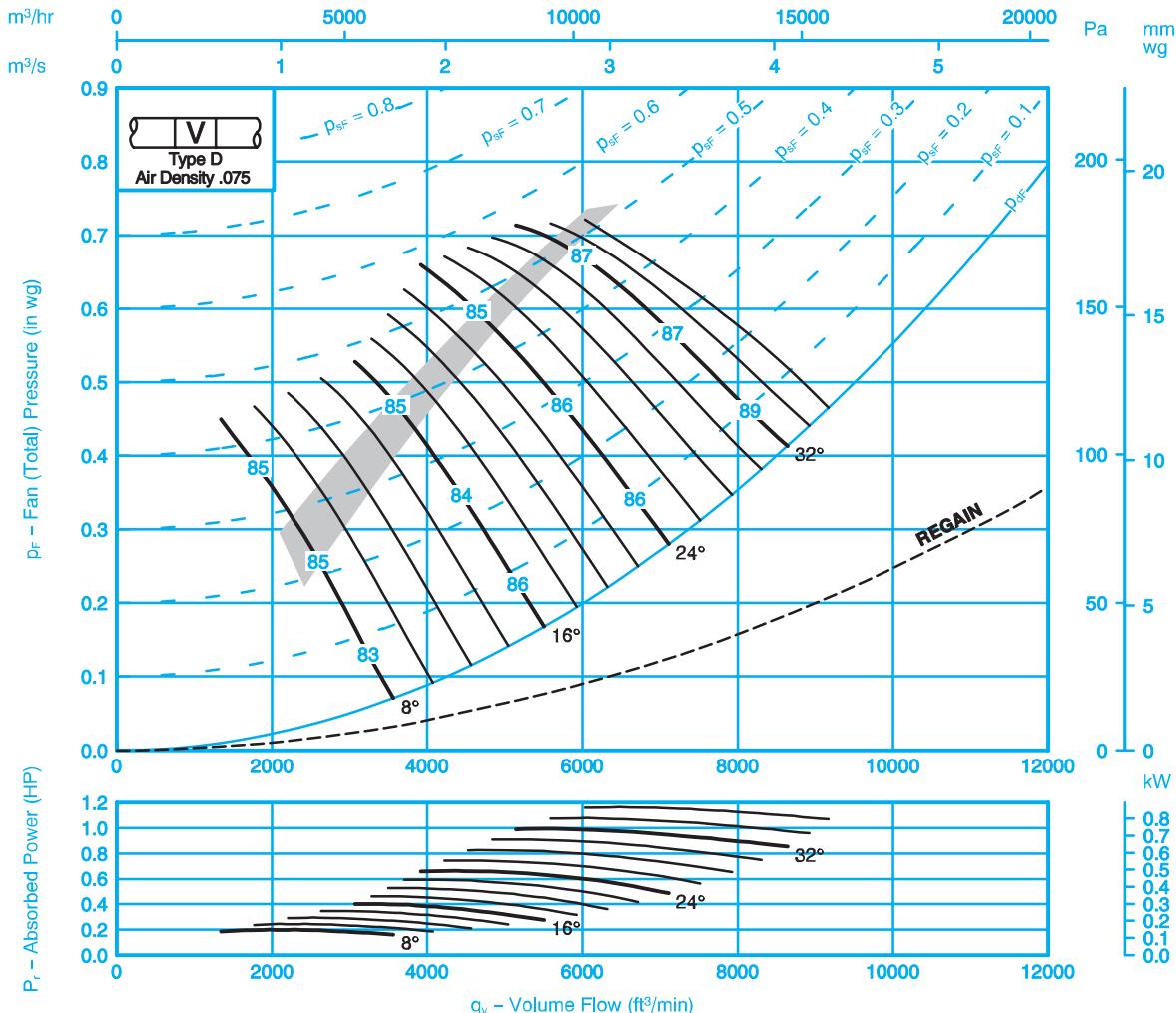
Fan Code: 63JM/20/6/3/...  
**630 mm 1170 RPM**  
**3 Blades 60 Hz**



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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	-16	-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

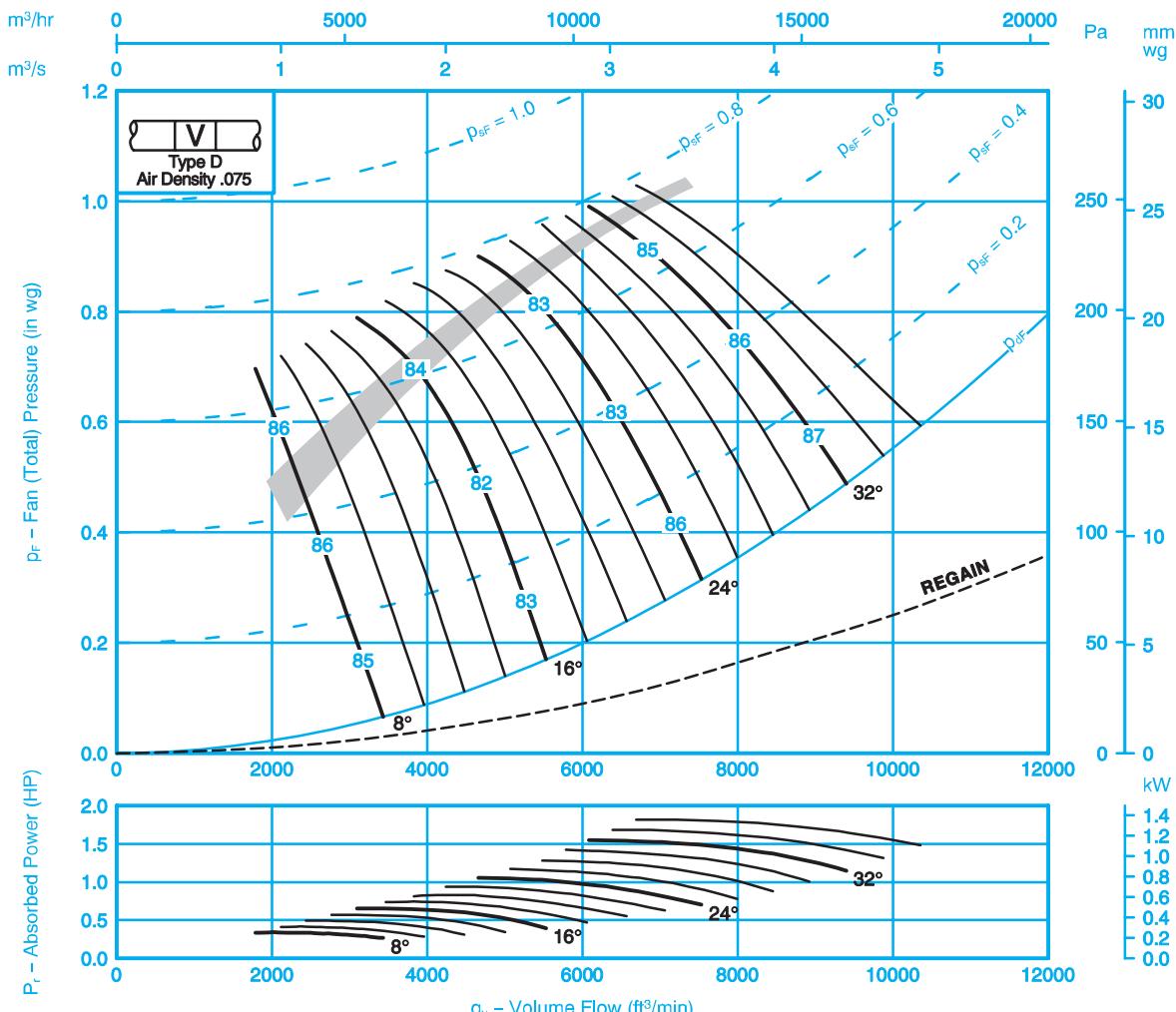
Fan Code: 63JM/20/6/6/  
630 mm 1170 RPM  
6 Blades 60 Hz



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Pitch Angle	Inlet Levels							
	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

Pitch Angle	Outlet Levels							
	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

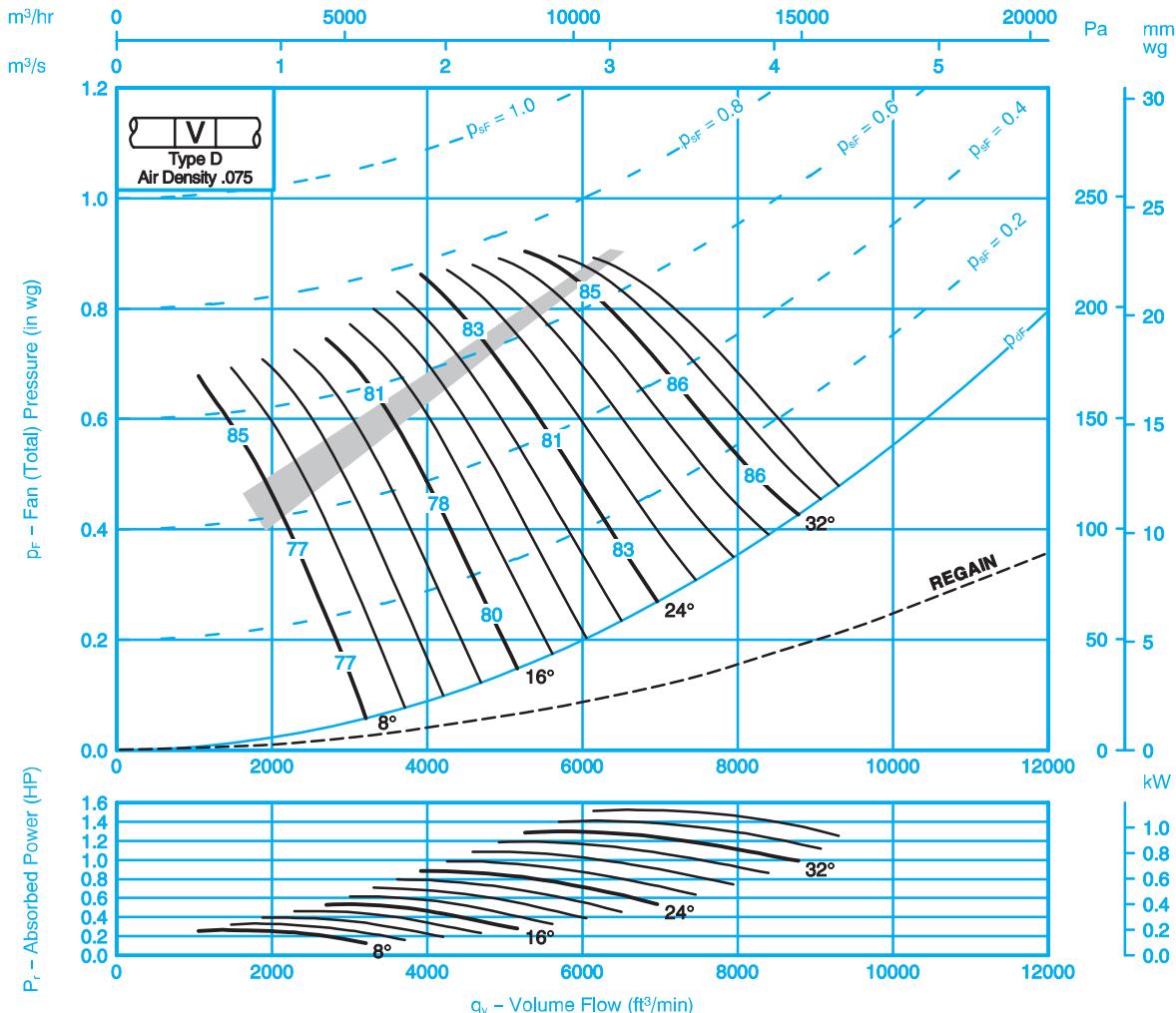
Fan Code: 63JM/25/6/6/  
630 mm 1170 RPM  
6 Blades 60 Hz



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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

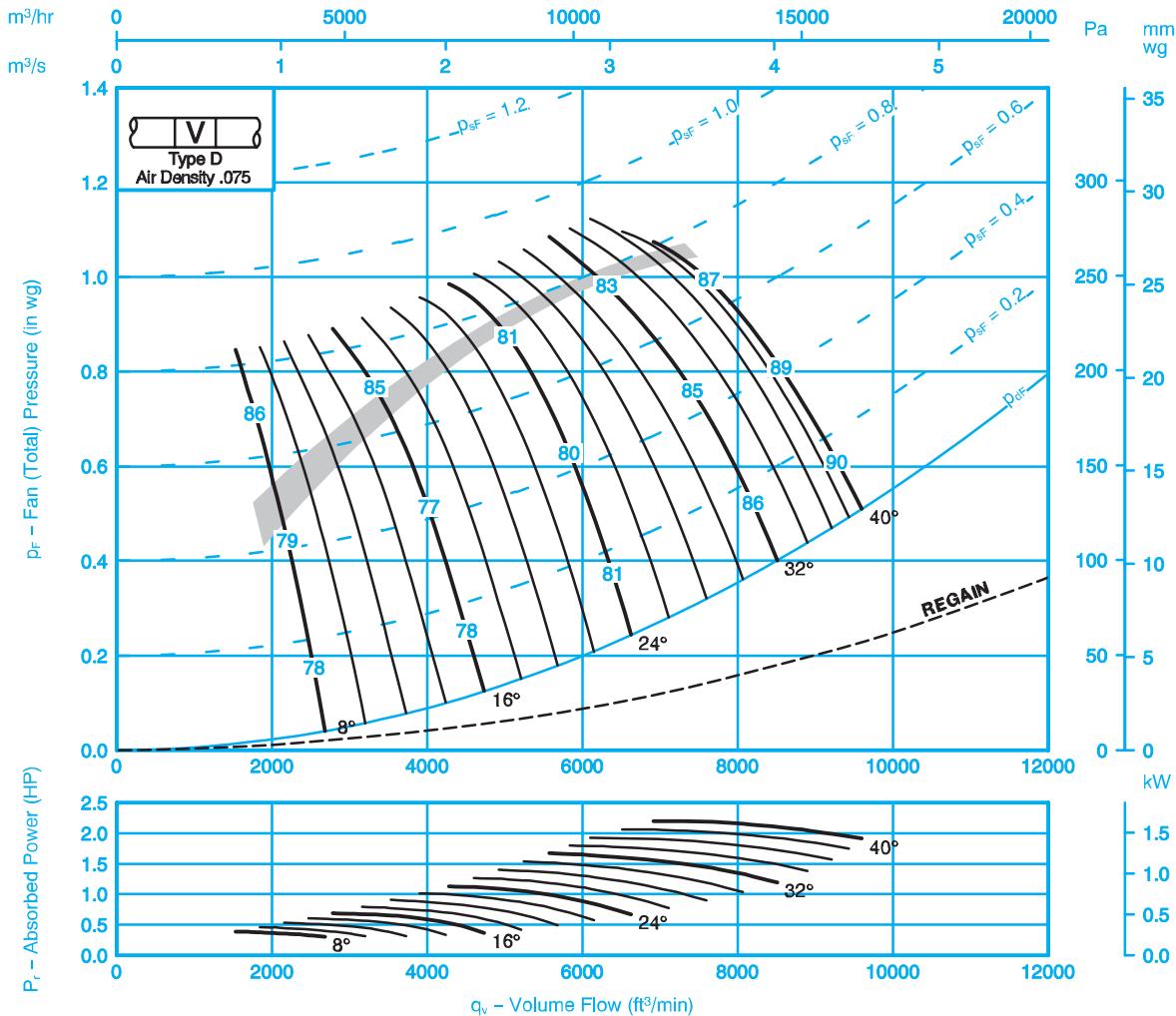
Fan Code: 63JM/25/6/9/...  
**630 mm 1170 RPM**  
**9 Blades 60 Hz**



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Pitch Angle	Inlet Levels							
	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

Pitch Angle	Outlet Levels							
	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

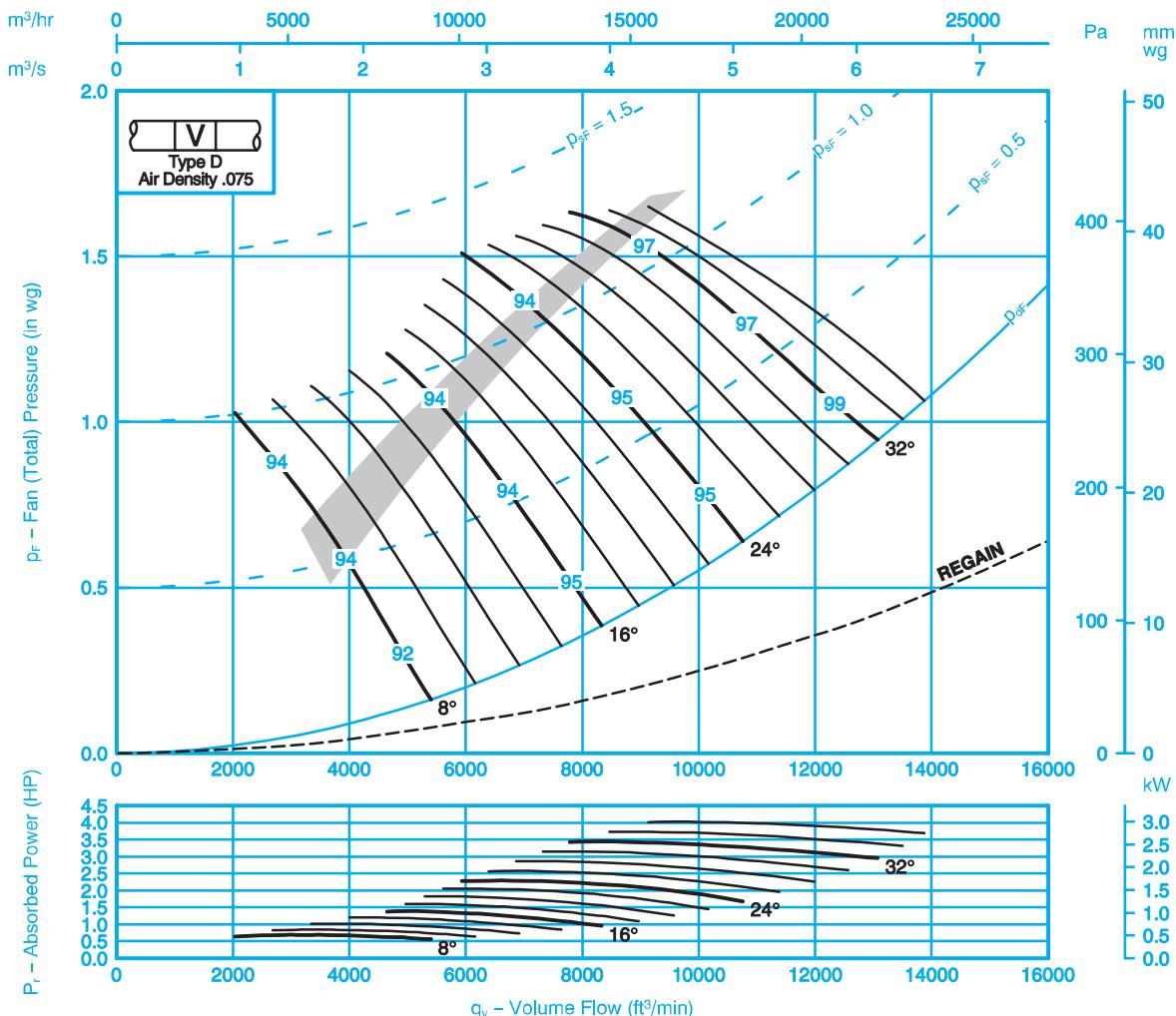
Fan Code: 63JM/20/4/3/  
630 mm 1770 RPM  
3 Blades 60 Hz



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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

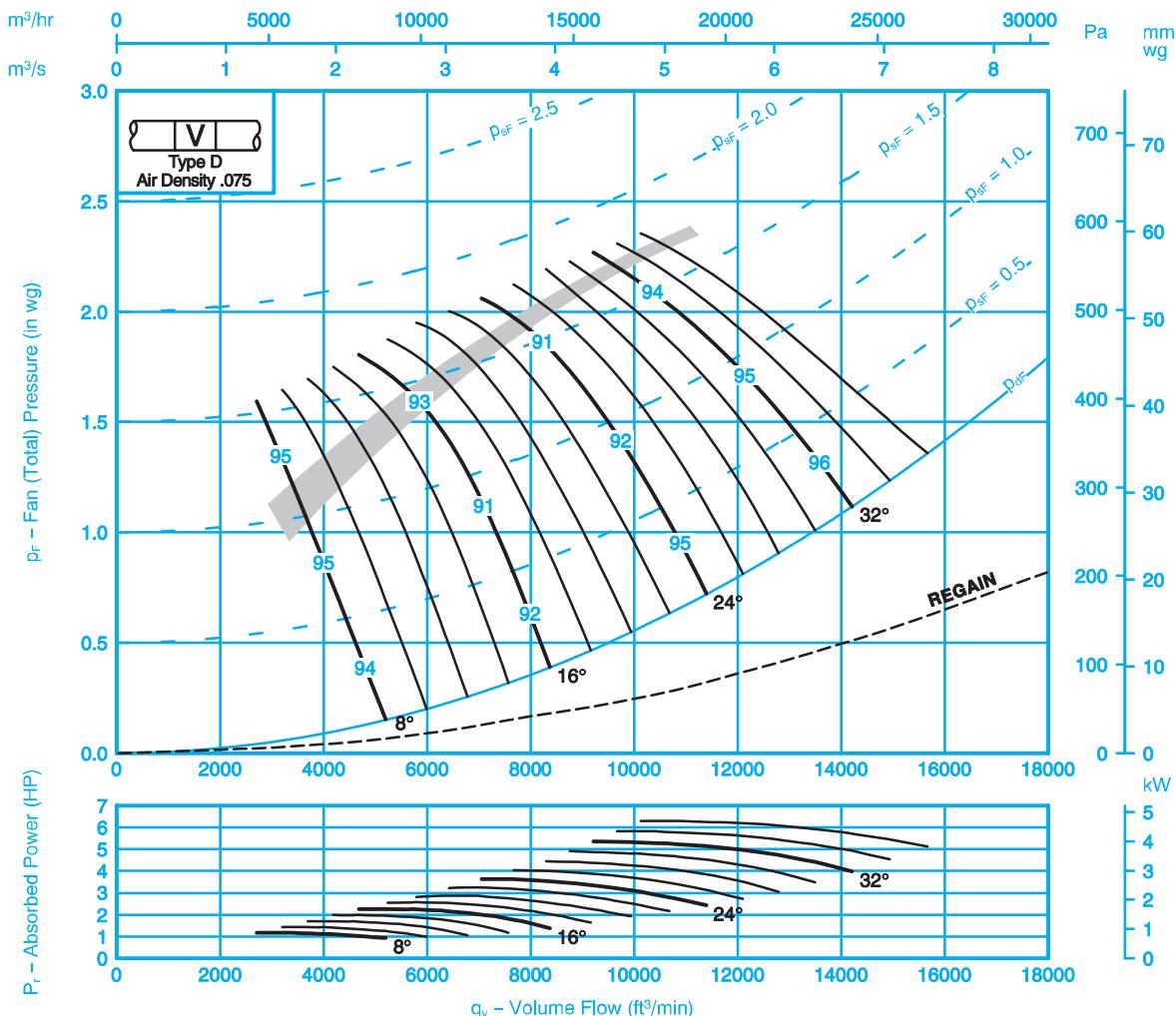
Fan Code: 63JM/20/4/6/...  
**630 mm 1770 RPM**  
**6 Blades 60 Hz**



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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	-10	-14	-16	-20
	-6	-4	-8	-7	-10	-14	-18	-23

SK10310

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



# JM AEROFOIL

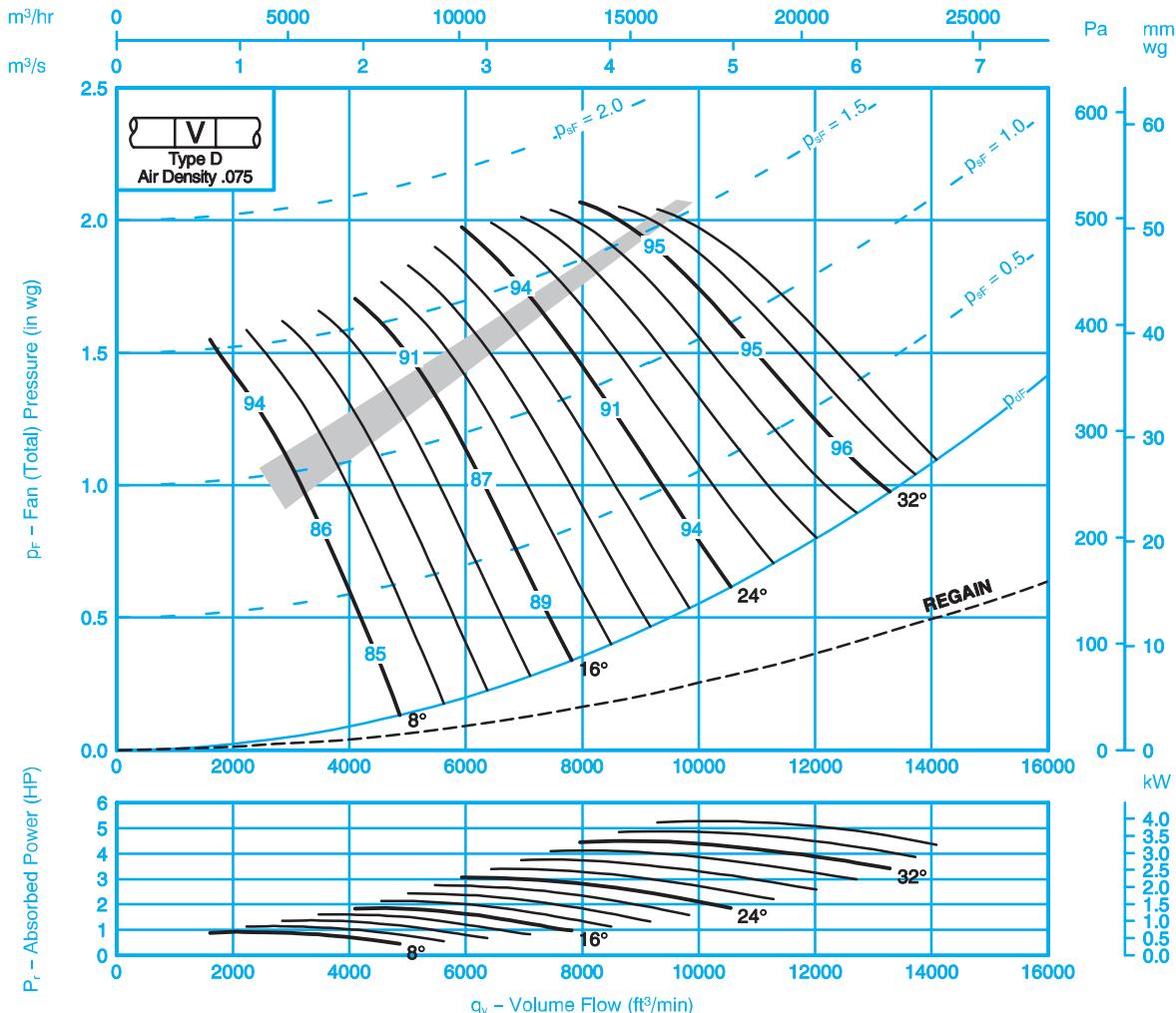
Fan Code: 63JM/25/4/6/...  
**630 mm 1770 RPM**  
**6 Blades 60 Hz**



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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

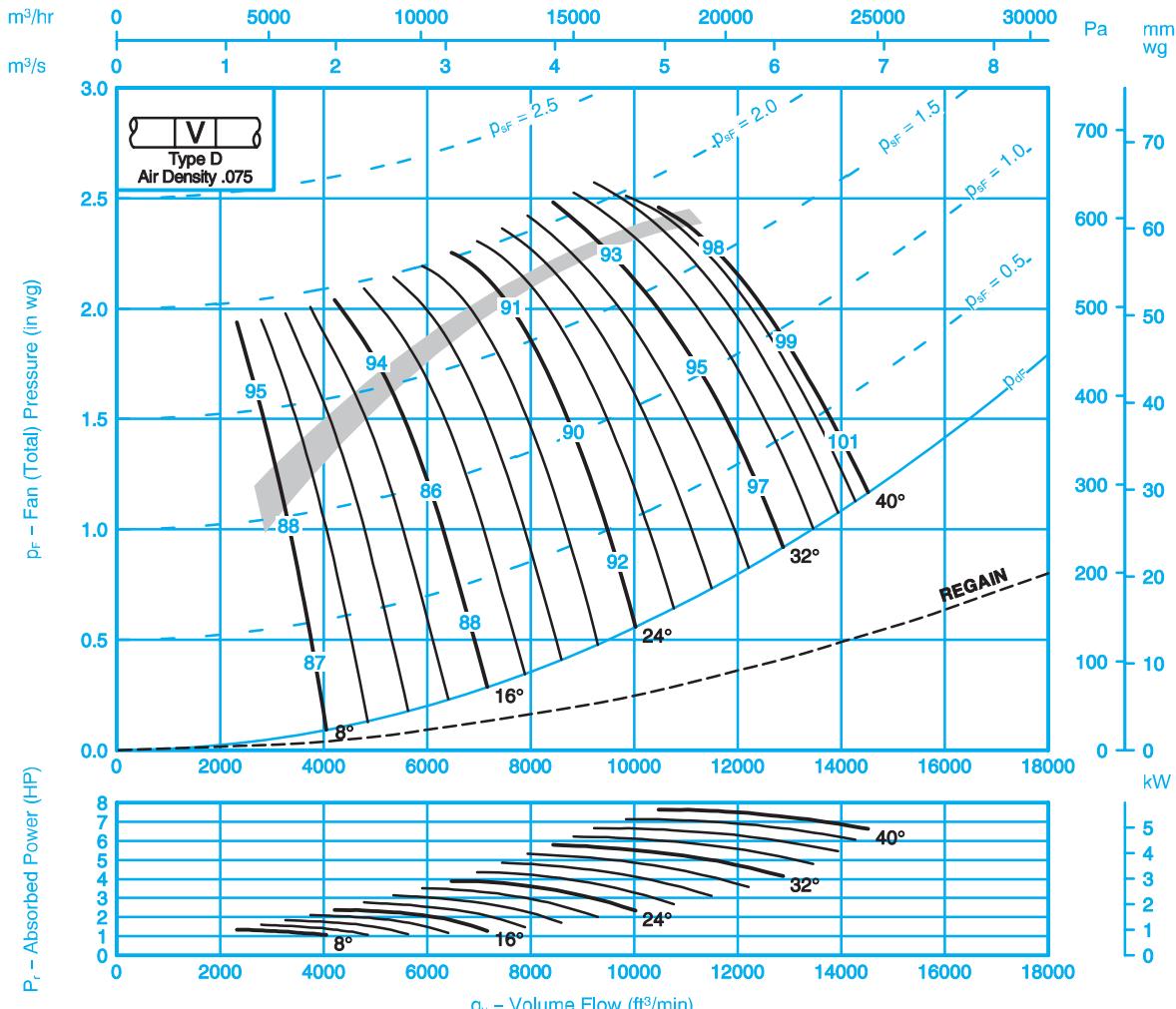
Fan Code: 63JM/25/4/9/...  
**630 mm 1770 RPM**  
**9 Blades 60 Hz**



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°	-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

Pitch Angle	Outlet Levels							
	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	-25
	-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

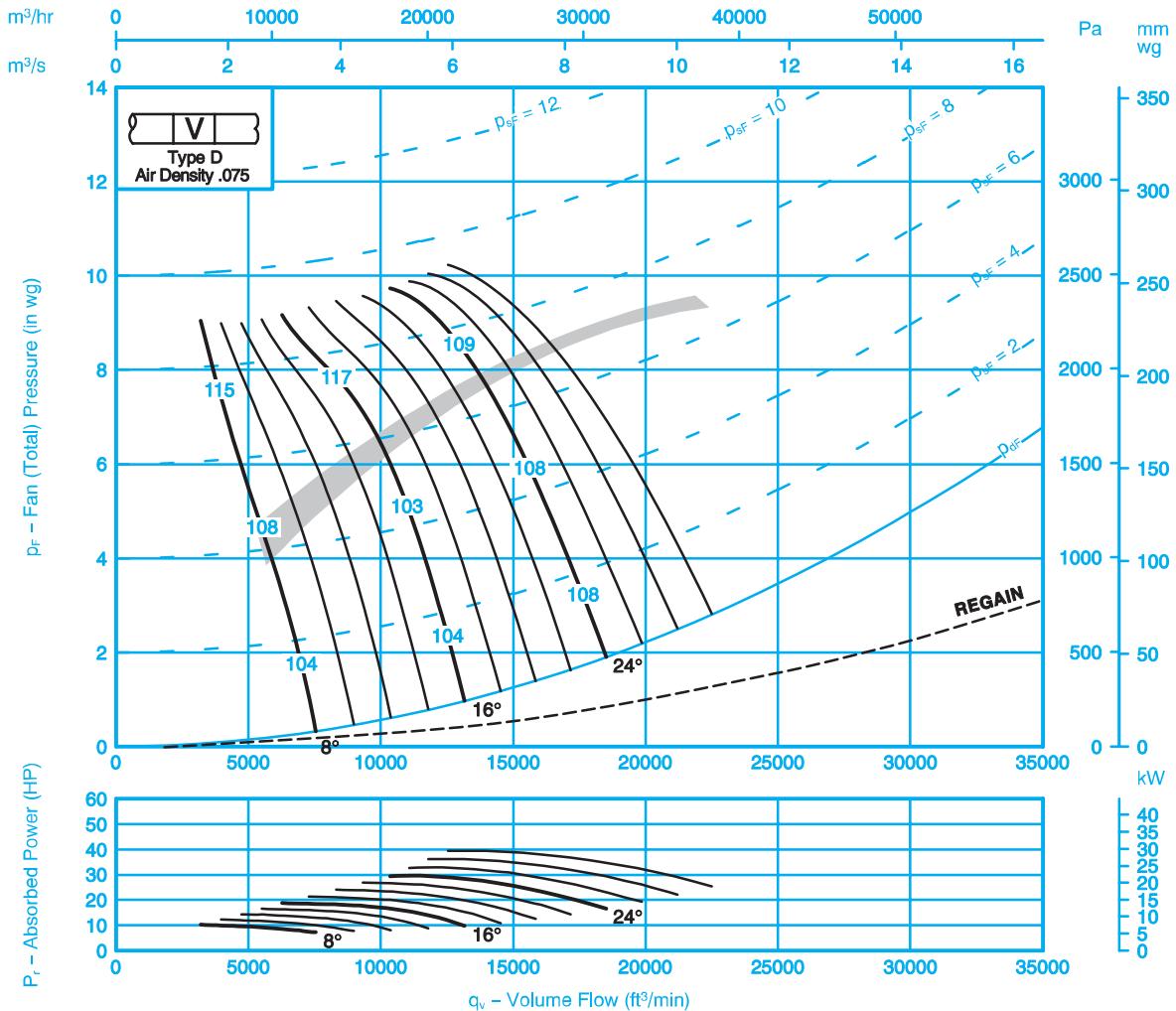
Fan Code: 63JM/31/2/9/...  
630 mm 3500 RPM  
9 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014  
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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°	-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	-6	-4	-9	-15
	-14	-13	-10	-7	-7	-6	-7	-7
16°	-13	-12	-11	-6	-6	-5	-7	-10
	-9	-9	-9	-4	-8	-11	-11	-11
24-30°	-7	-6	-9	-5	-8	-10	-13	-14
	-4	-5	-8	-6	-10	-16	-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

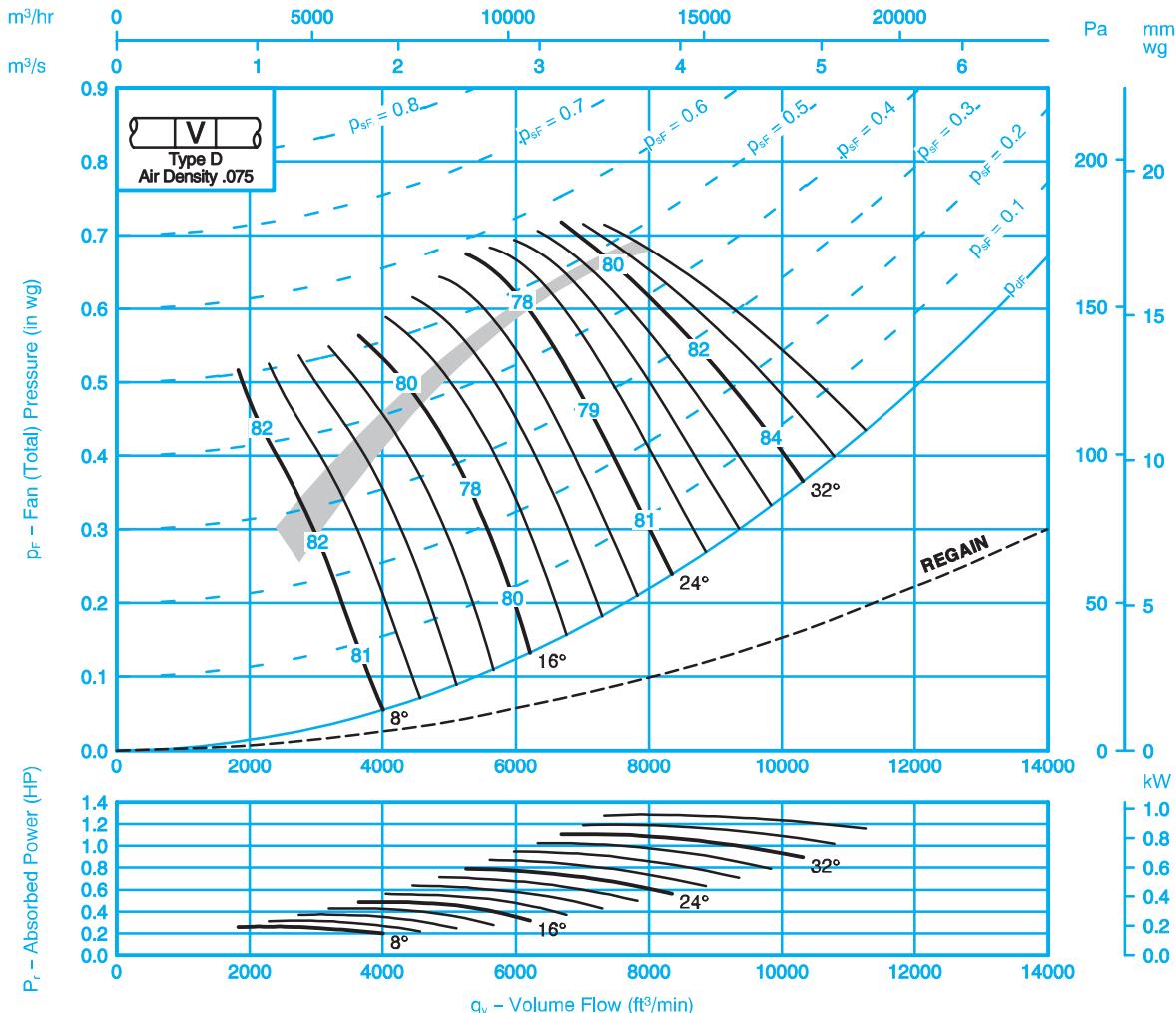
Fan Code: 71JM/20/8/6/...  
**710 mm 875 RPM**  
**6 Blades 60 Hz**



2933 Symmes Road, Fairfield, Ohio 45014  
 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°	-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

Pitch Angle	Outlet Levels							
	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	-8	-10	-11	-15	-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

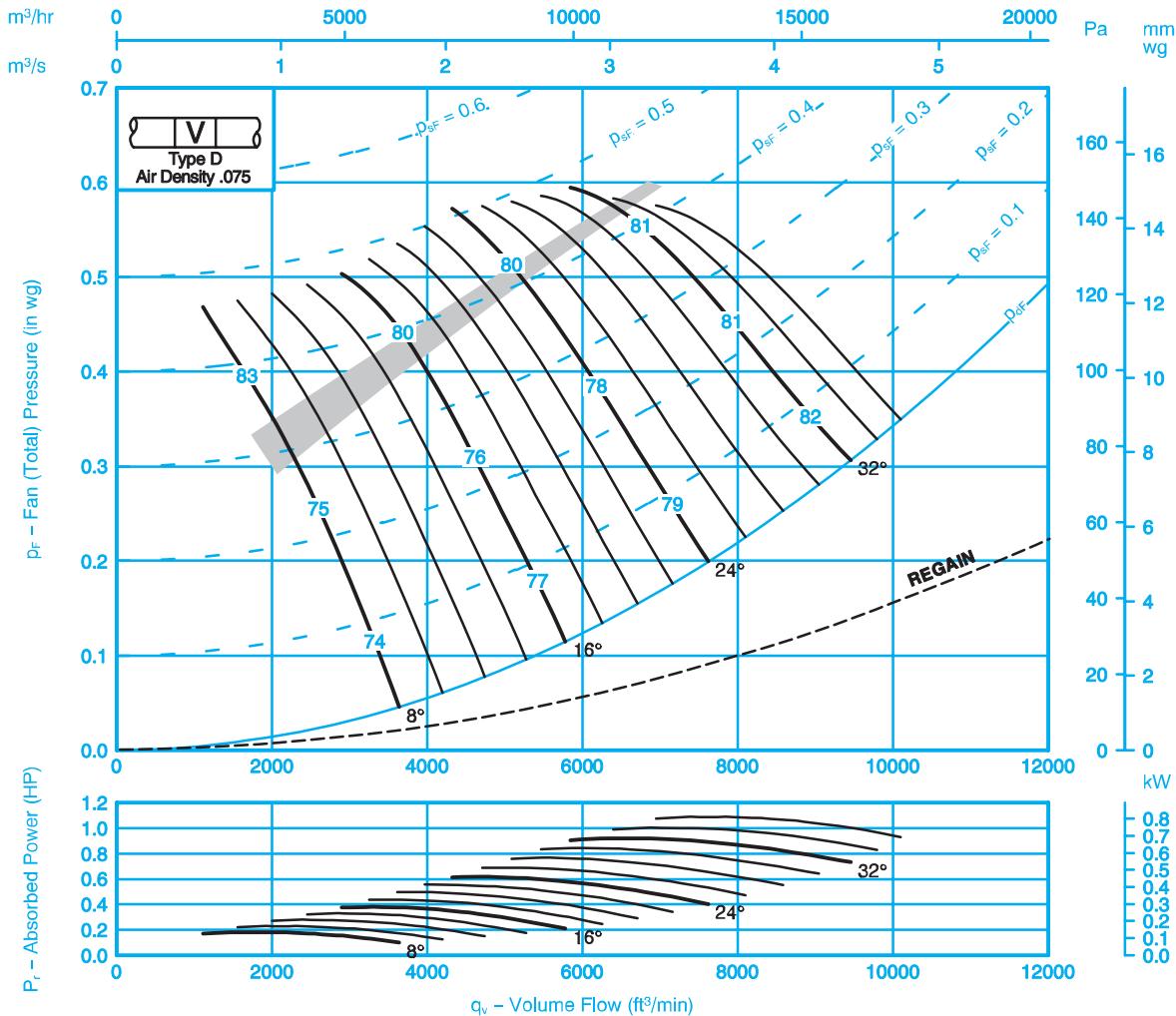
Fan Code: 71JM/25/8/6/...  
**710 mm 875 RPM**  
**6 Blades 60 Hz**



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

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°	-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	-7	-9	-14	-20
	-3	-4	-9	-11	-13	-14	-20	-25
24-36°	-4	-5	-7	-9	-11	-15	-18	-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

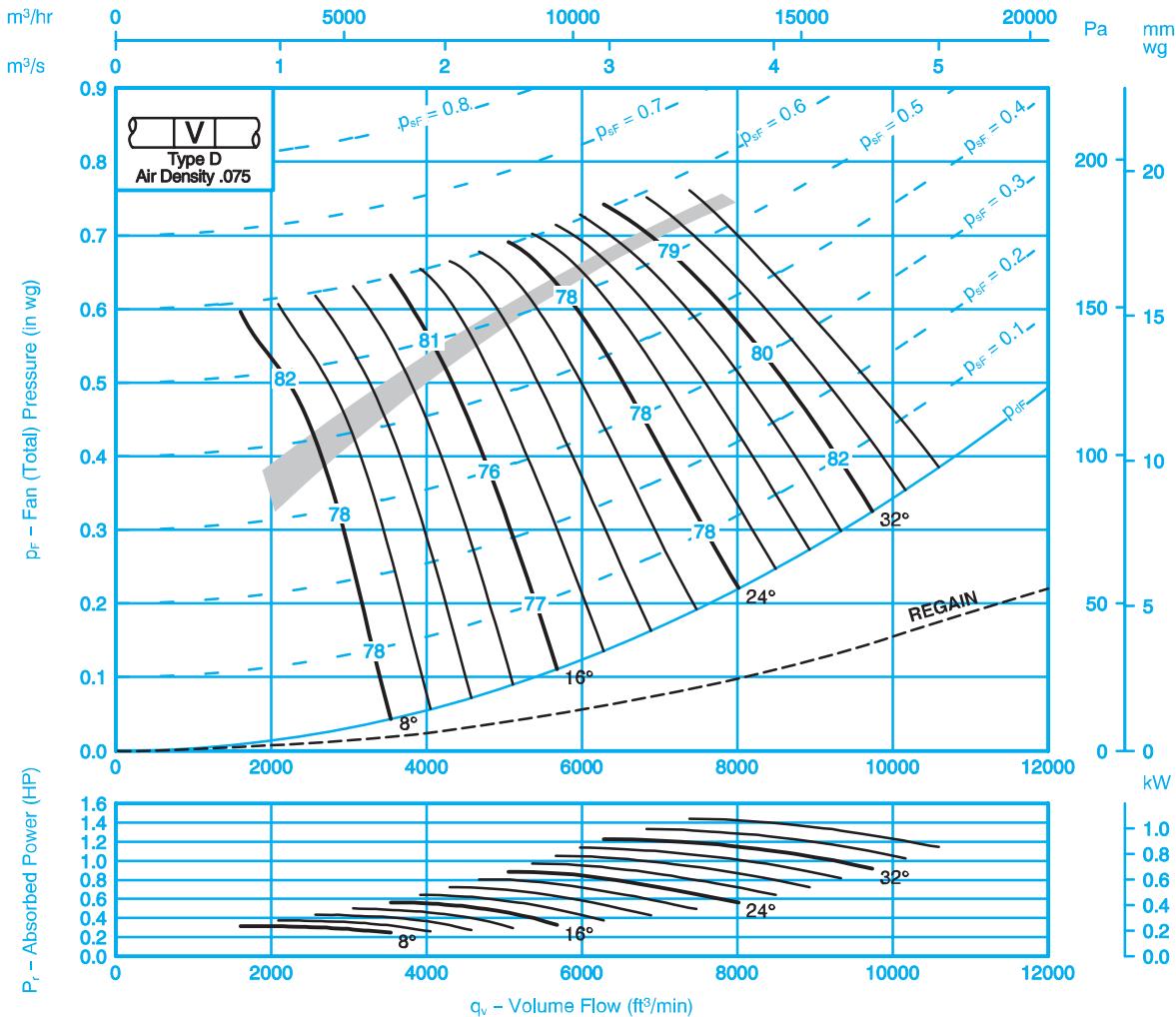
Fan Code: 71JM/25/8/9/...  
**710 mm 875 RPM**  
**9 Blades 60 Hz**



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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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°	-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

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	-17	-24	-31
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



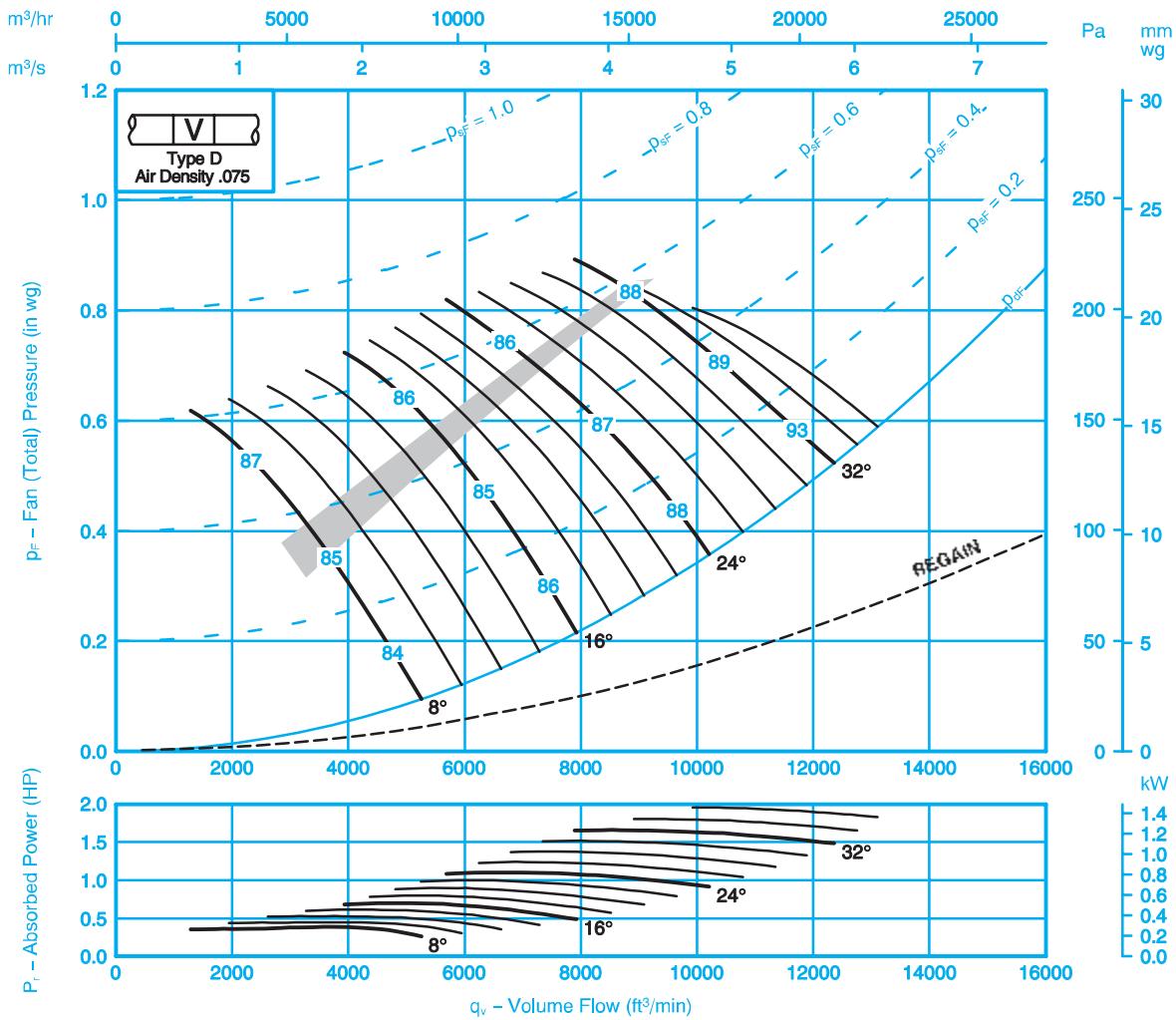
# JM AEROFOIL

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) 870-6249

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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.

Inlet Levels								
Pitch Angle	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

Outlet Levels								
Pitch Angle	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	-16	-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

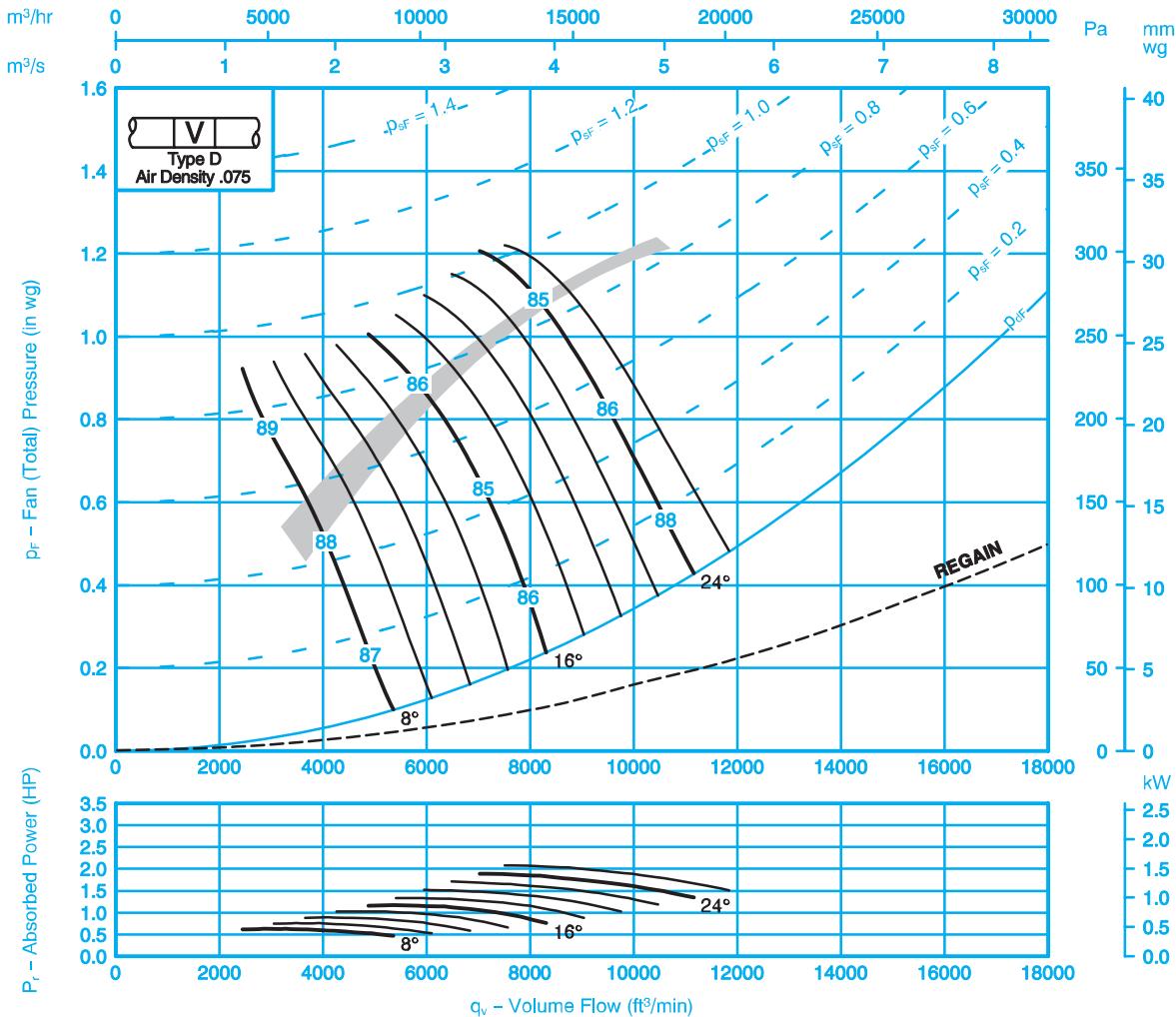
Fan Code: 71JM/20/6/6/...  
**710 mm 1170 RPM**  
**6 Blades 60 Hz**



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

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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	-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

Pitch Angle	Outlet Levels							
	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	-13	-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

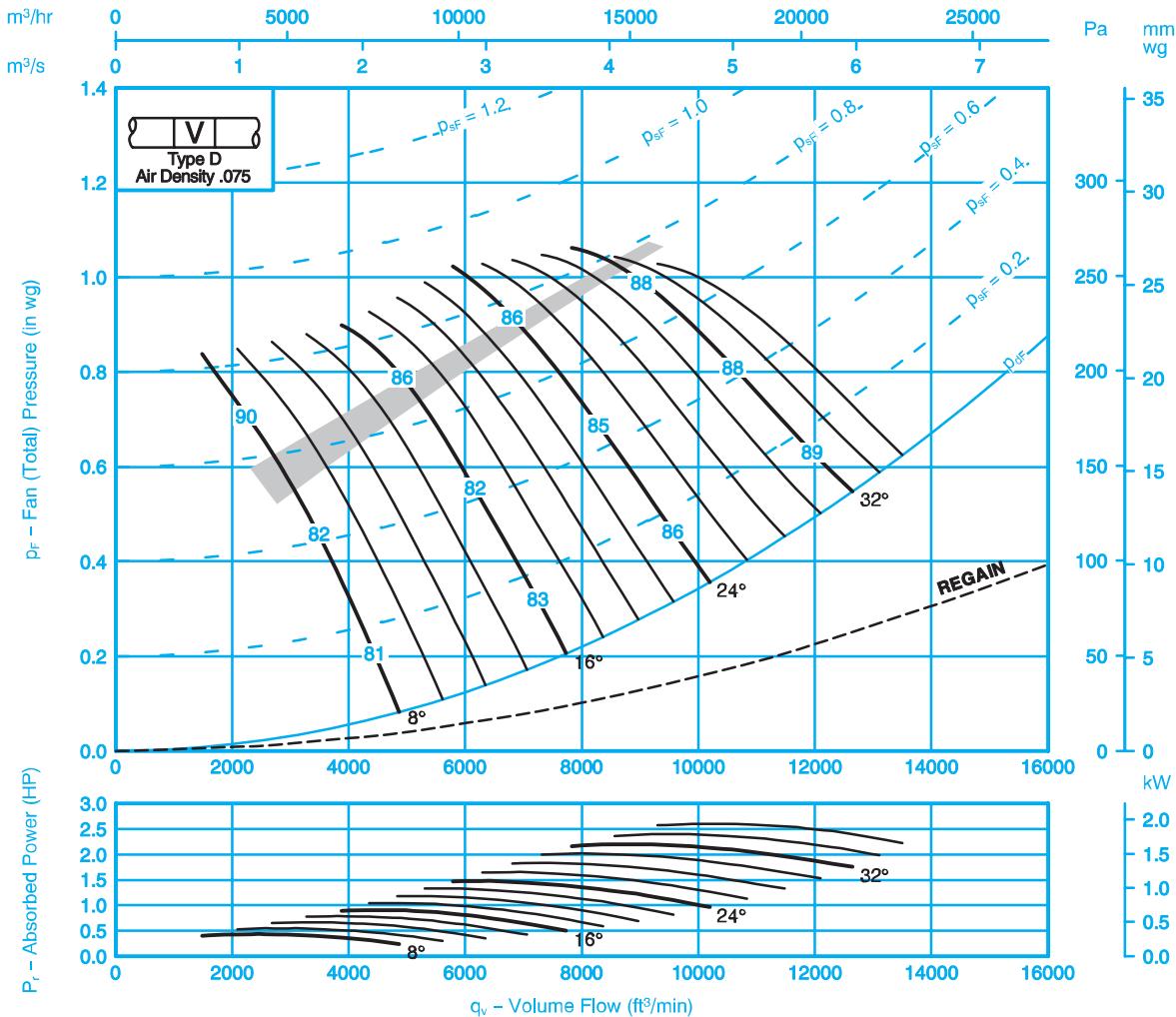
Fan Code: 71JM/25/6/6/...  
**710 mm 1170 RPM**  
**6 Blades 60 Hz**



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	-11	-6	-4	-7	-15	-22	-29
	-7	-9	-8	-7	-7	-9	-14	-22
16°	-7	-7	-7	-8	-8	-12	-18	-24
	-5	-6	-8	-11	-11	-13	-18	-24
24-36°	-5	-6	-7	-9	-10	-14	-18	-21
	-4	-6	-8	-11	-12	-16	-20	-24

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

SK10317

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



# JM AEROFOIL

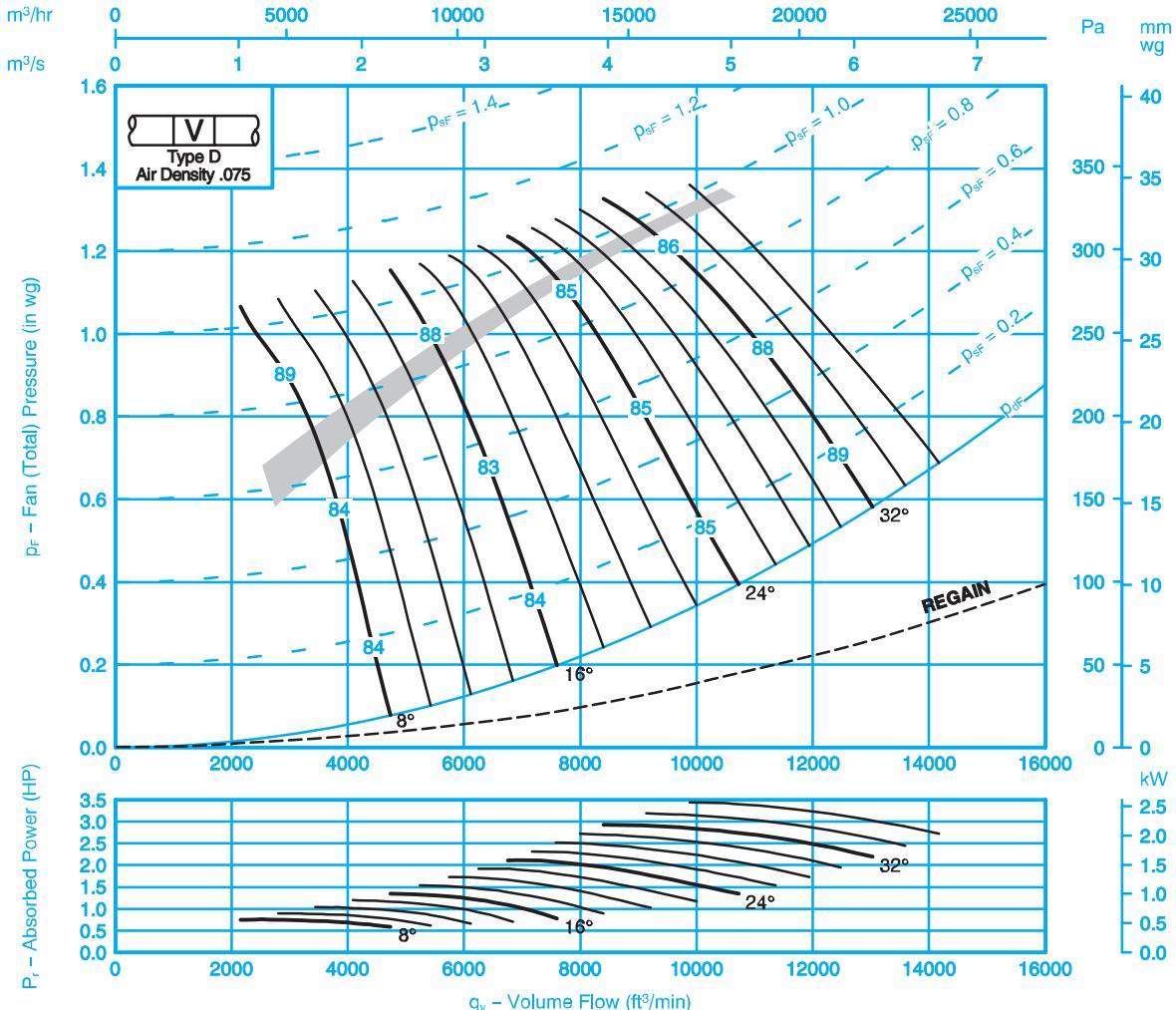
Fan Code: 71JM/25/6/9/...  
**710 mm 1170 RPM**  
**9 Blades 60 Hz**



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°	-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

Pitch Angle	Outlet Levels							
	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	-5	-8	-13	-19
	-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

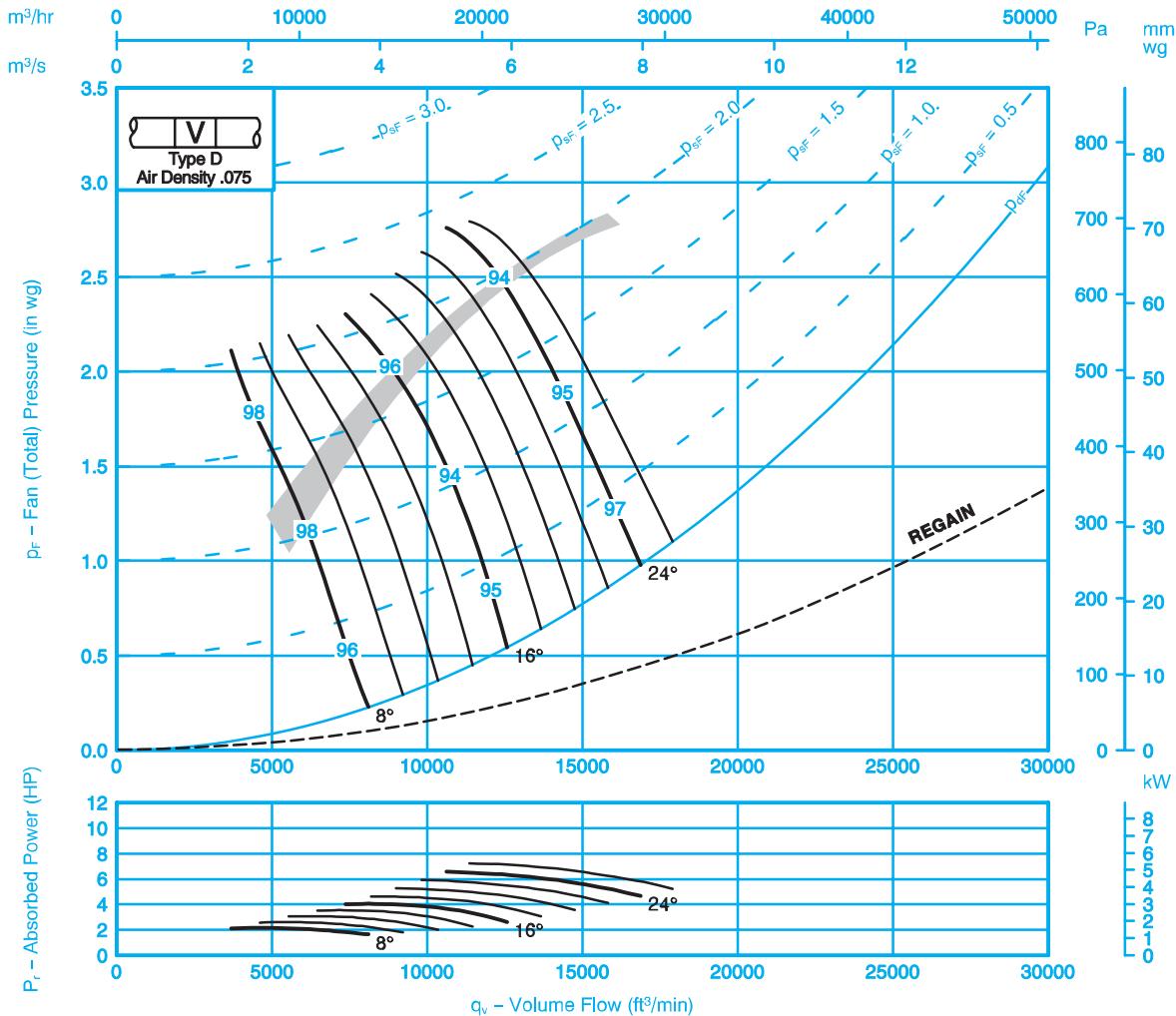
Fan Code: 71JM/20/4/6/...  
**710 mm 1770 RPM**  
**6 Blades 60 Hz**



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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°	-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	-4	-8	-10	-18	-22
	-11	-6	-7	-7	-7	-10	-14	-18
24-26°	-9	-6	-7	-7	-11	-12	-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

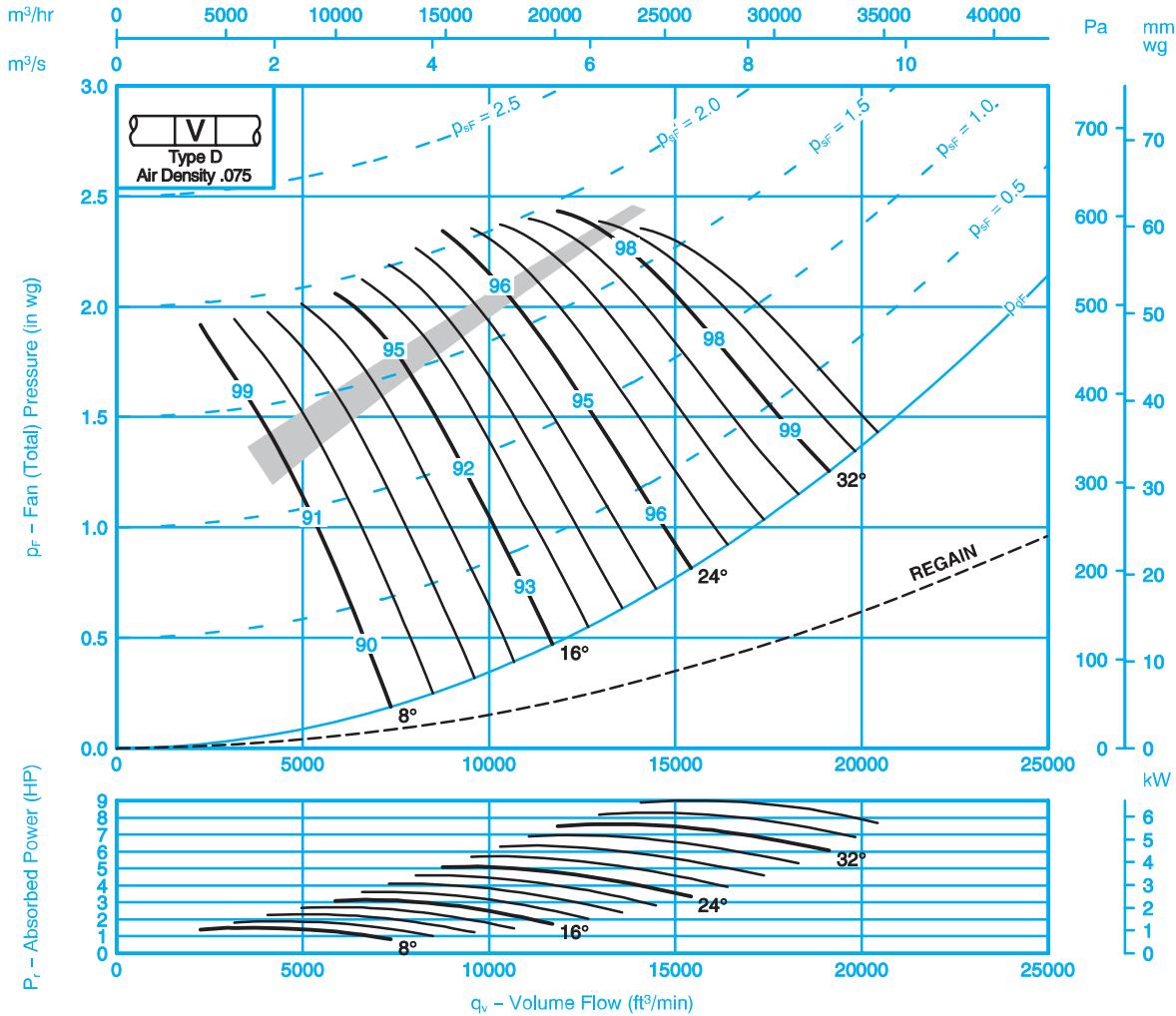
Fan Code: 71JM/25/4/6/...  
**710 mm 1770 RPM**  
**6 Blades 60 Hz**



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	-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

Pitch Angle	Outlet Levels							
	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	-21
	-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

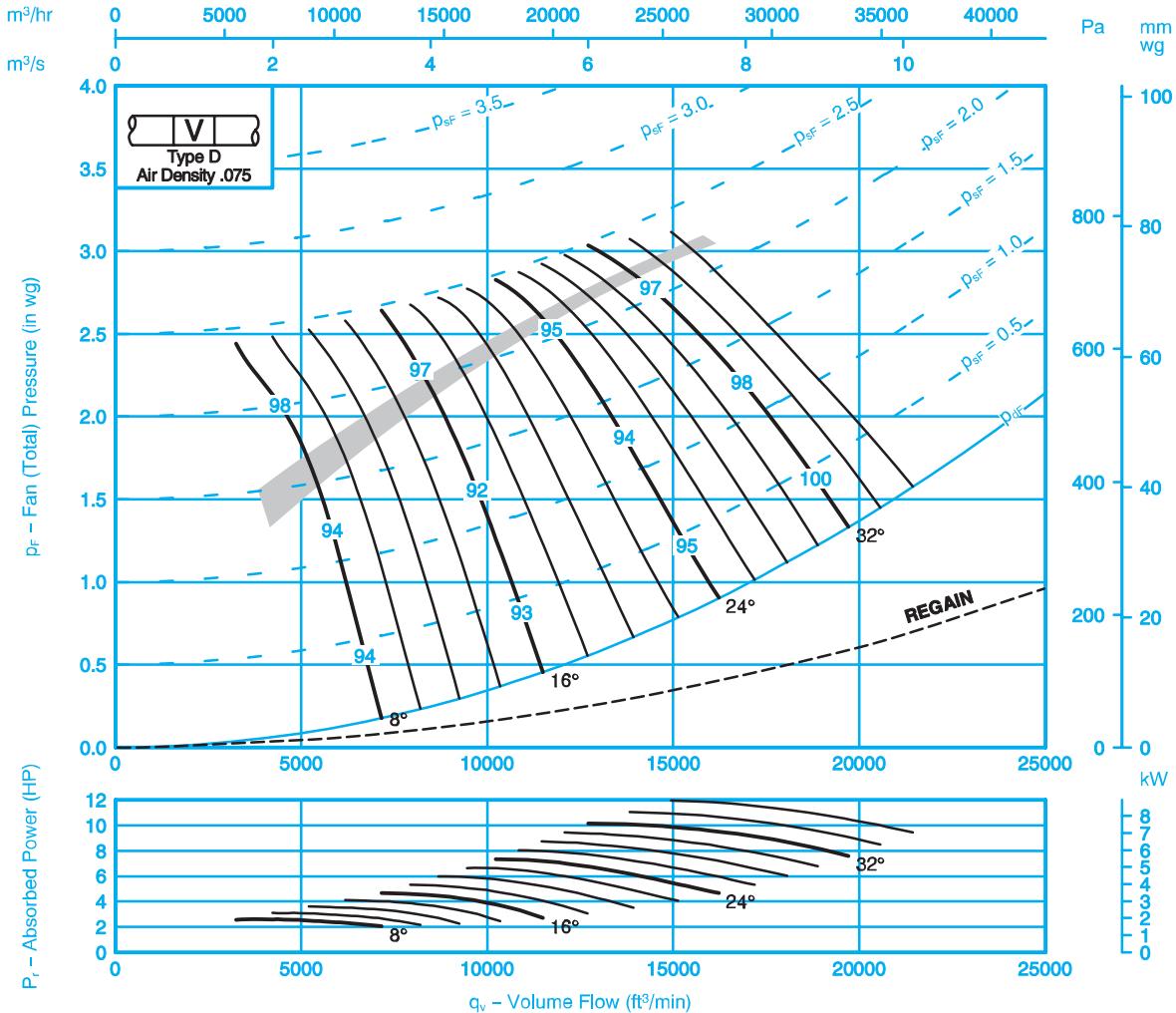
Fan Code: 71JM/25/4/9/...  
**710 mm 1770 RPM**  
**9 Blades 60 Hz**



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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.

Inlet Levels								
Pitch Angle	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

Outlet Levels								
Pitch Angle	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	-21
	-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

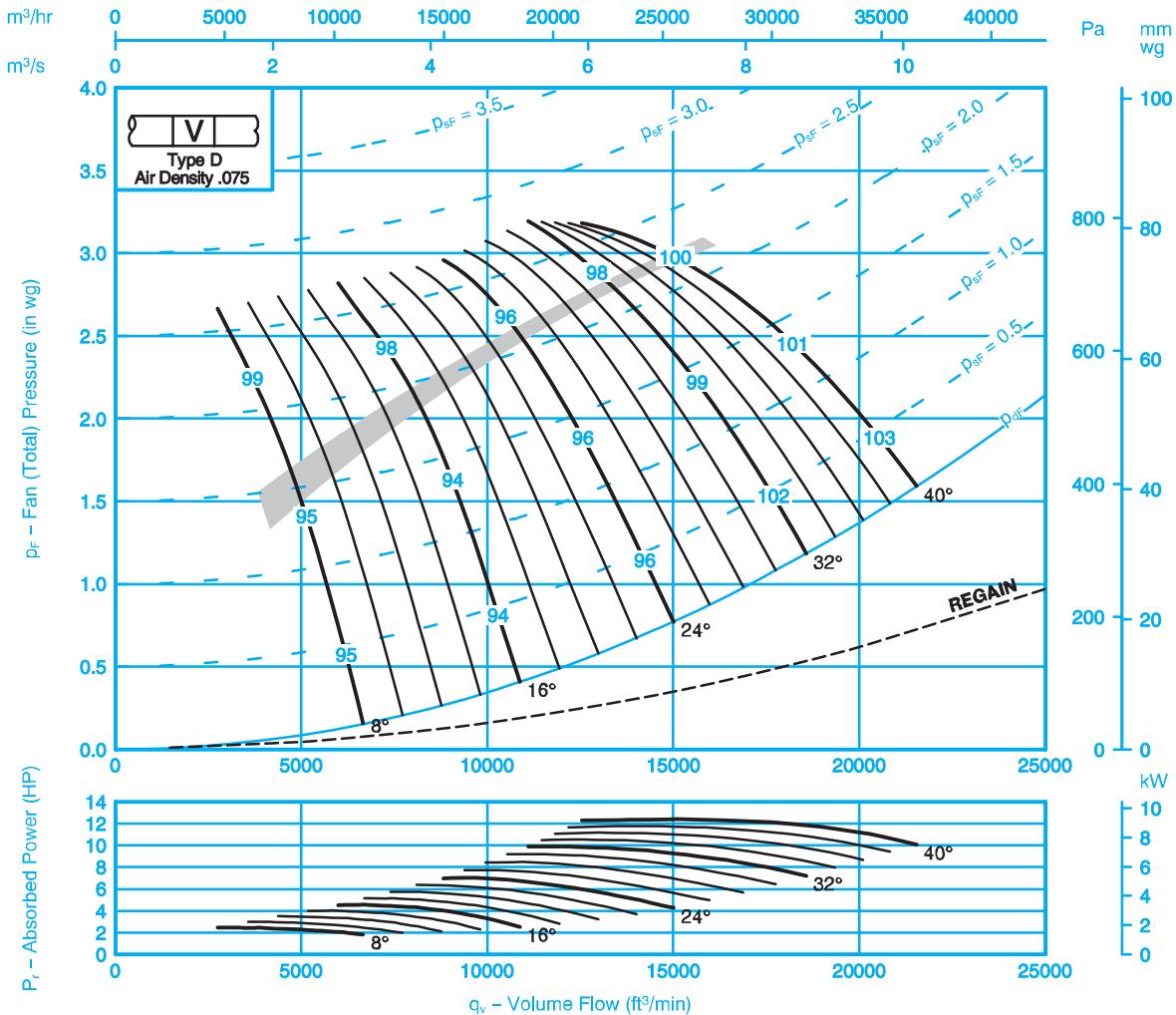
Fan Code: 71JM/31/4/9/  
710 mm 1770 RPM  
9 Blades 60 Hz



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°	-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							
	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
24-40°	-3	-9	-6	-7	-10	-12	-14	-21
	-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

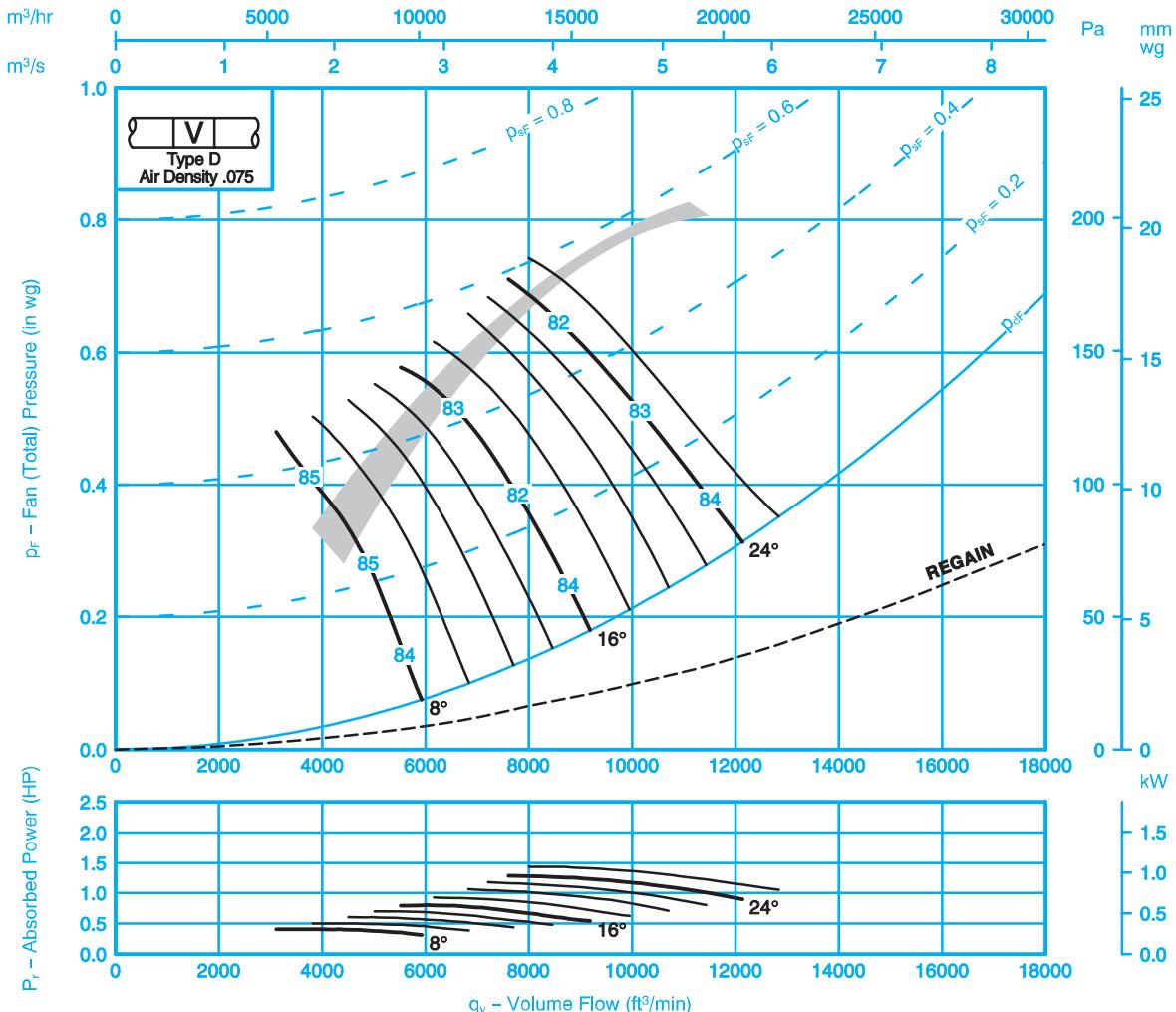
Fan Code: 80JM/20/8/6/...  
800 mm 875 RPM  
6 Blades 60 Hz



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**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

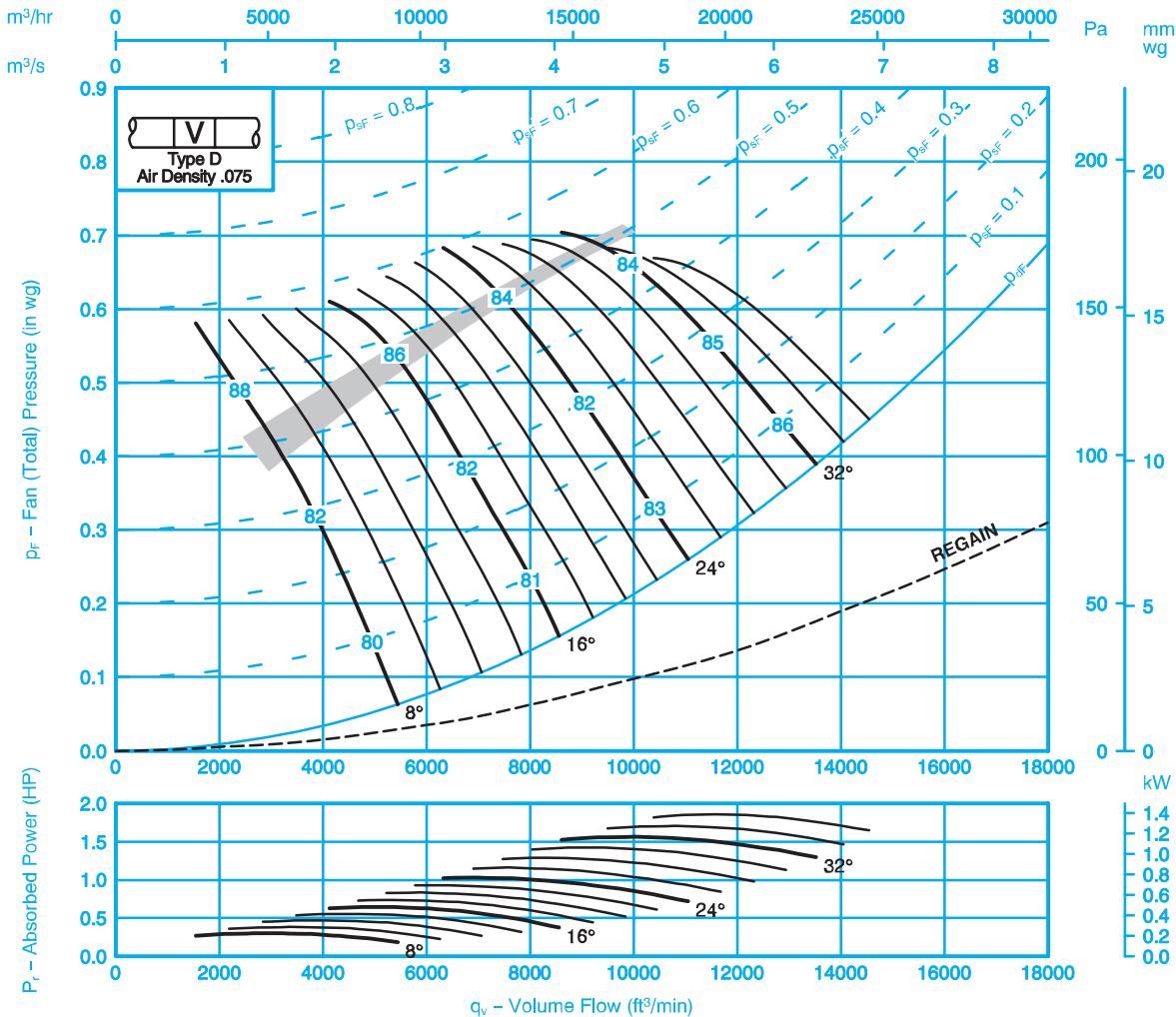
Fan Code: 80JM/25/8/6/...  
**800 mm 875 RPM**  
**6 Blades 60 Hz**



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**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
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
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	-8	-11	-14	-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

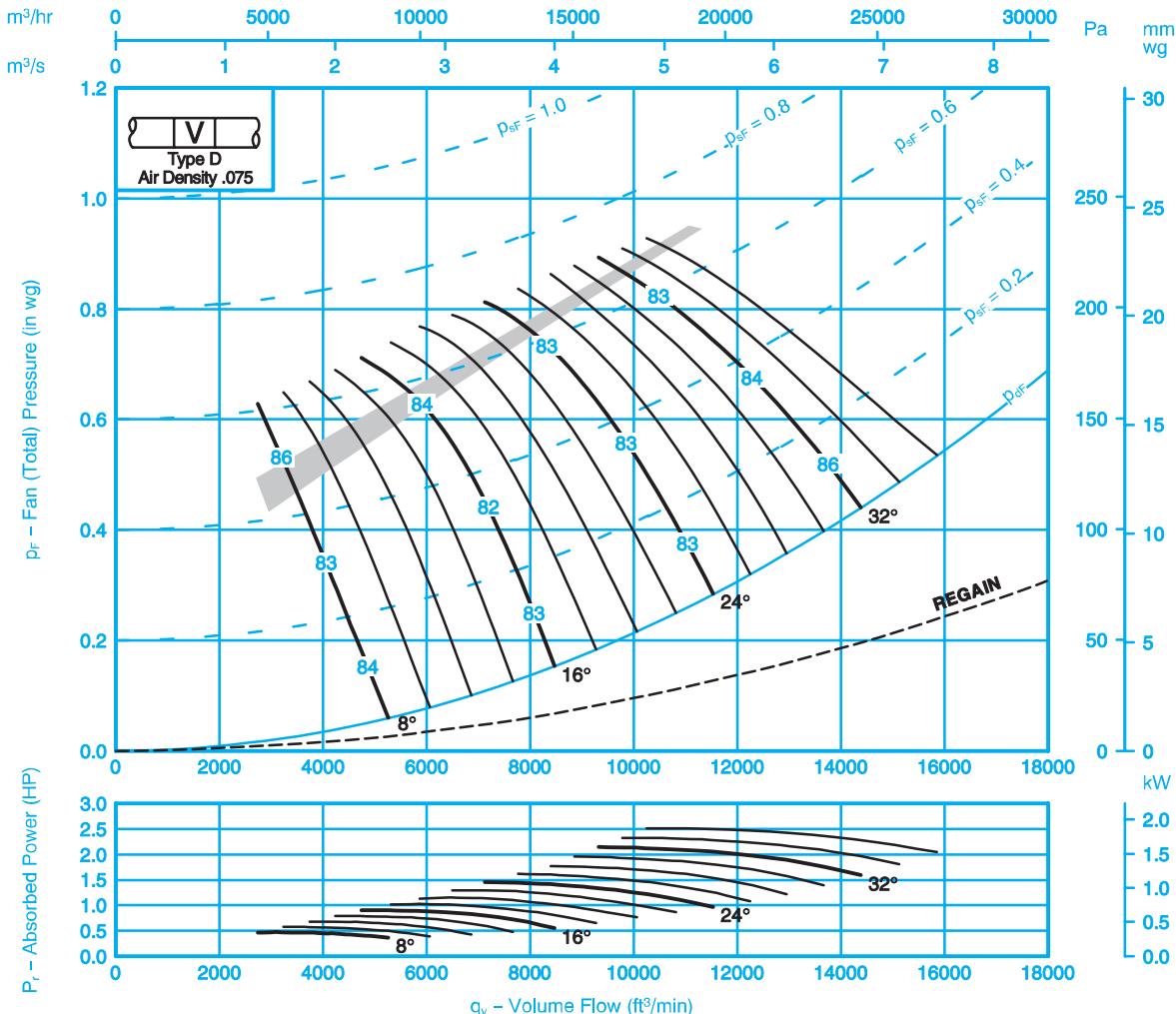
Fan Code: 80JM/25/8/9/...  
800 mm 875 RPM  
9 Blades 60 Hz



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Pitch Angle	Inlet Levels							
	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							
	63	125	250	500	1k	2k	4k	8k
8°	-9	-7	-6	-6	-9	-16	-24	-31
	-10	-8	-7	-7	-8	-18	-24	-31
16°	-8	-7	-5	-6	-6	-11	-16	-20
	-9	-6	-5	-8	-8	-10	-13	-18
24-36°	-8	-8	-6	-6	-6	-10	-13	-15
	-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

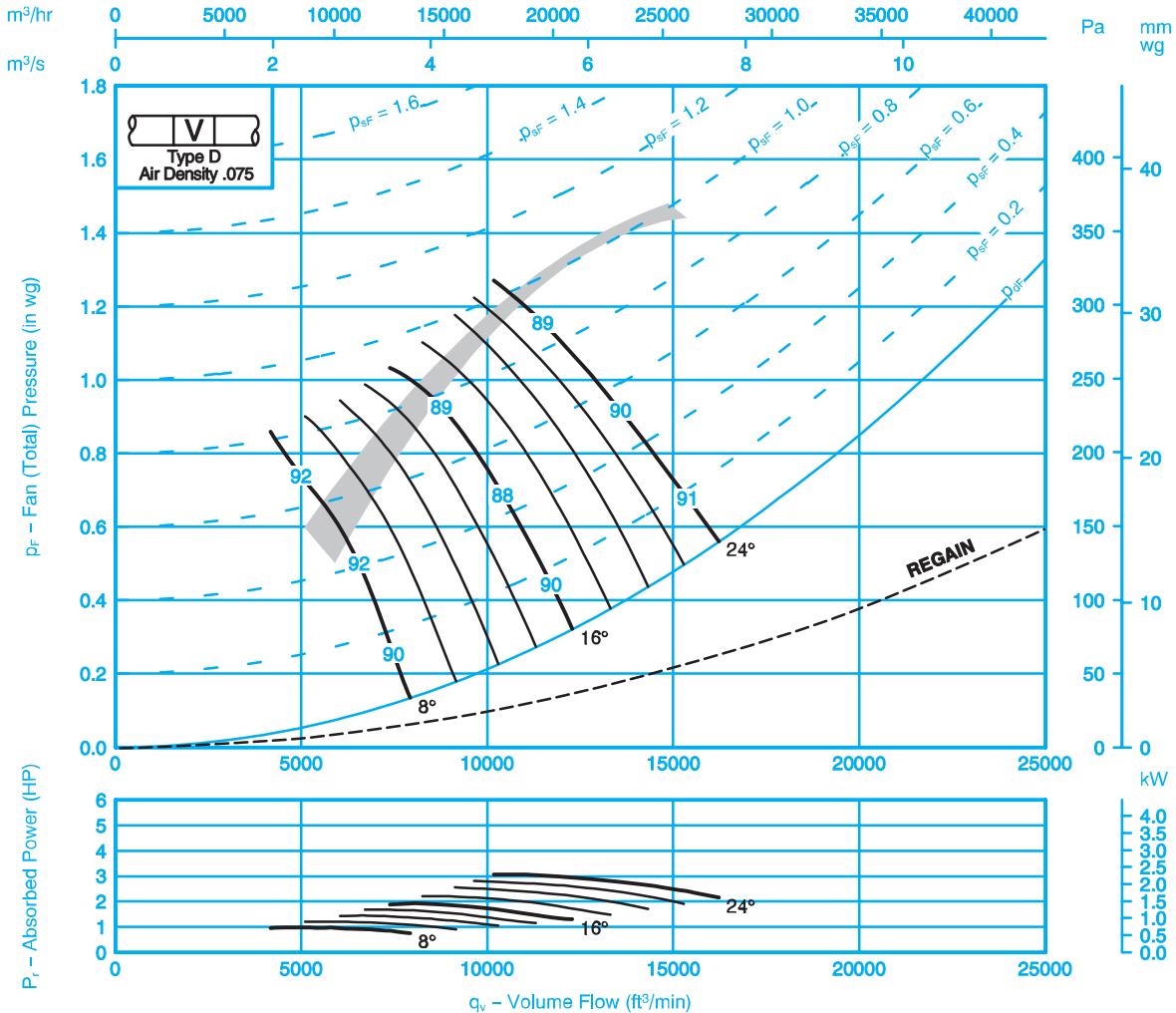
Fan Code: 80JM/20/6/6/  
800 mm 1170 RPM  
6 Blades 60 Hz



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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	-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

Pitch Angle	Outlet Levels							
	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

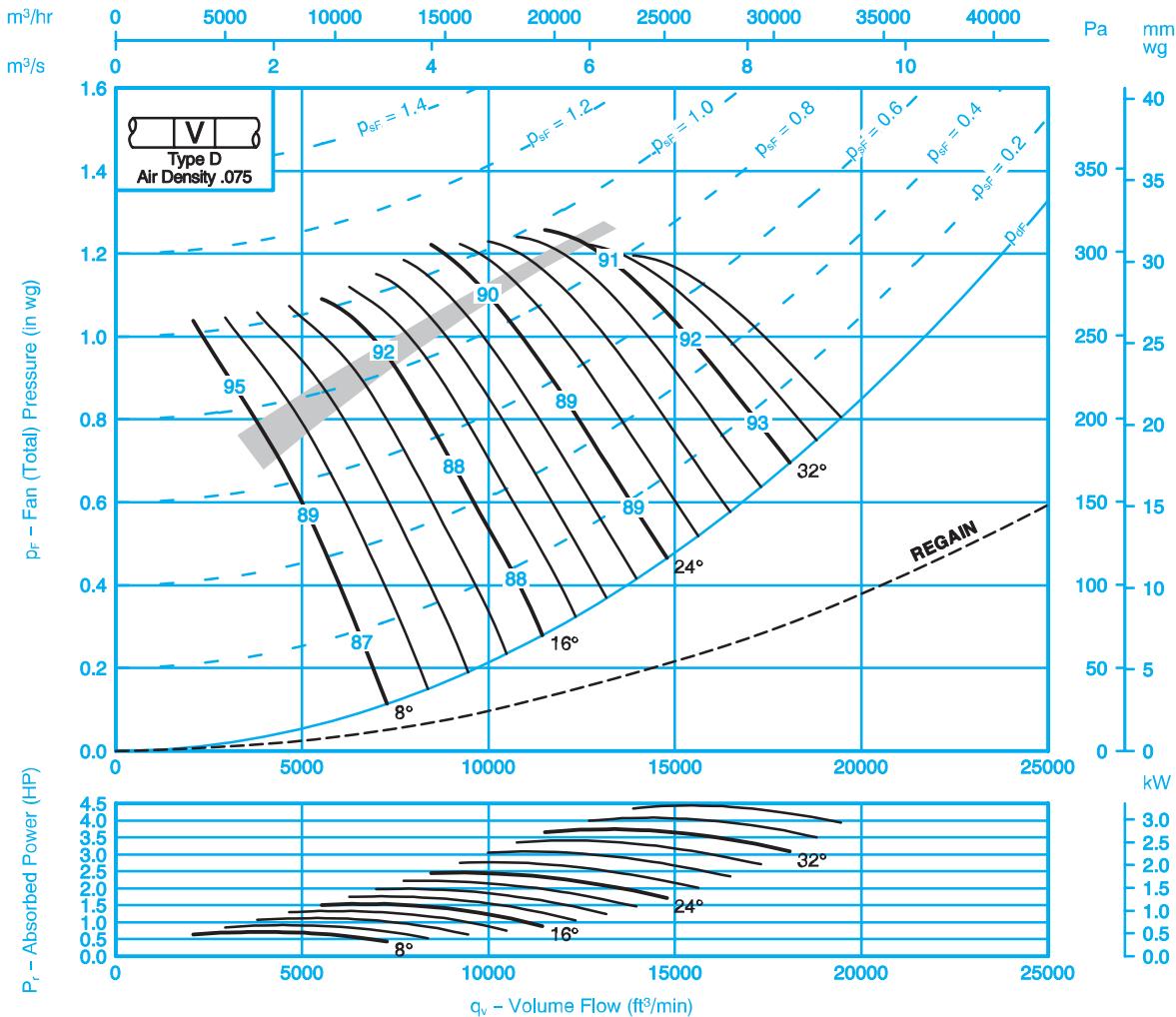
Fan Code: 80JM/25/6/6/  
800 mm 1170 RPM  
6 Blades 60 Hz



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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	-14 -13	-7 -10	-3 -6	-6 -5	-15 -9	-21 -15	-28 -22
16°	-9 -6	-9 -6	-9 -8	-5 -10	-6 -10	-13 -13	-18 -16	-25 -21
24-36°	-6 -5	-7 -7	-8 -8	-8 -8	-8 -9	-13 -14	-16 -17	-20 -21

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

SK10326

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



# JM AEROFOIL

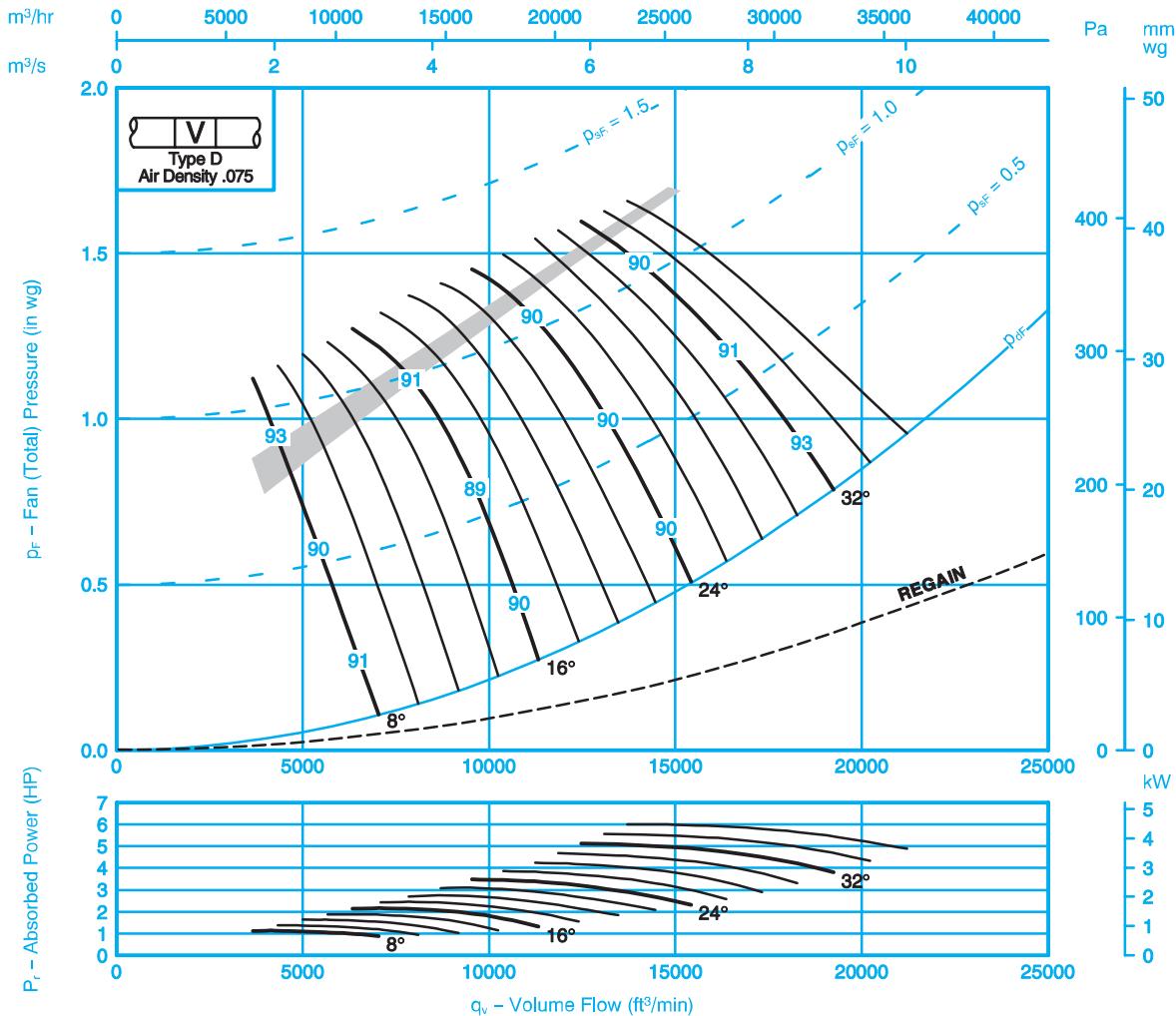
Fan Code: 80JM/25/6/9/...  
800 mm 1170 RPM  
9 Blades 60 Hz



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Pitch Angle	Inlet Levels							
	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

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

SK10327

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



# JM AEROFOIL

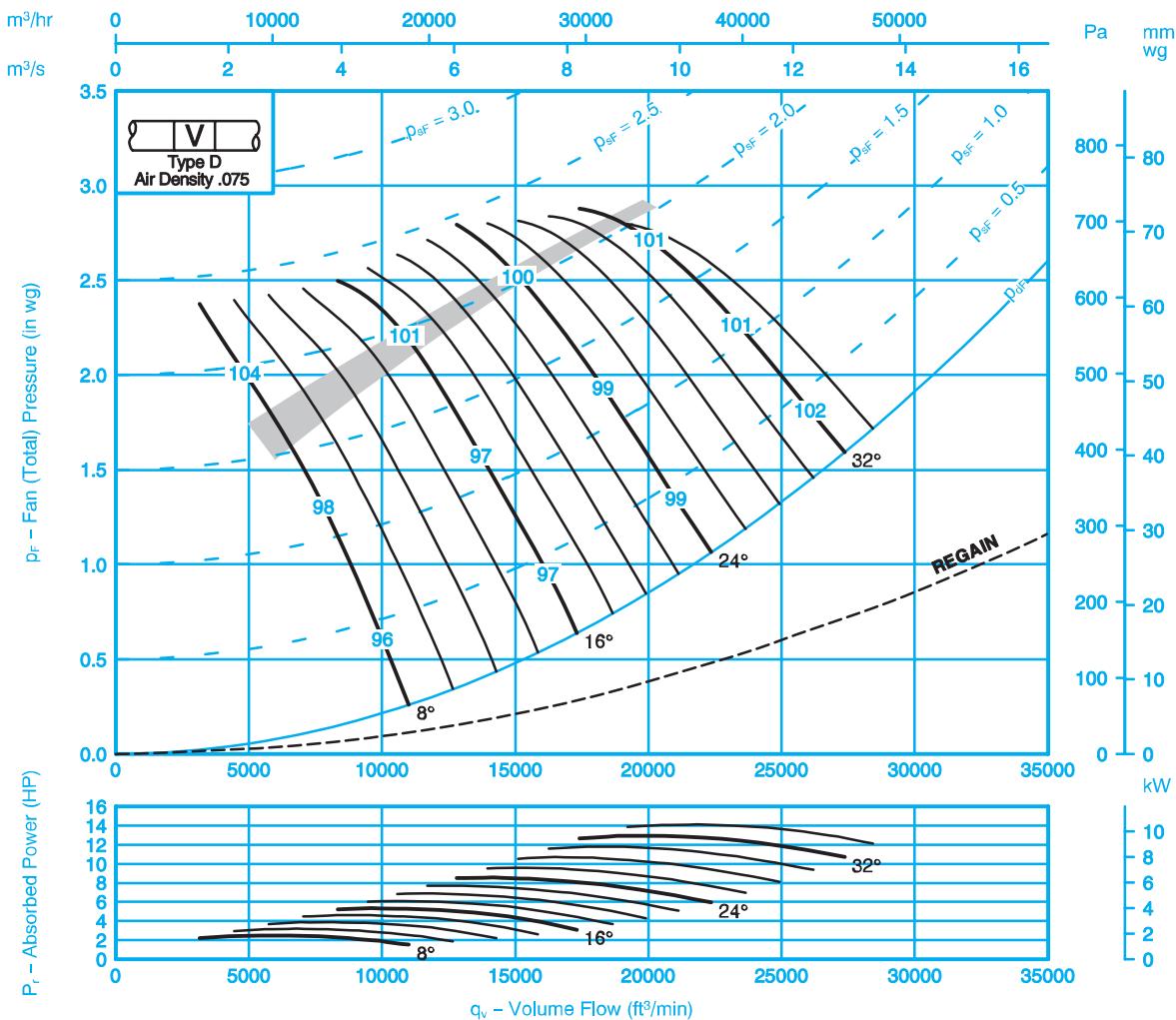
Fan Code: 80JM/25/4/6/...  
800 mm 1770 RPM  
6 Blades 60 Hz



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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

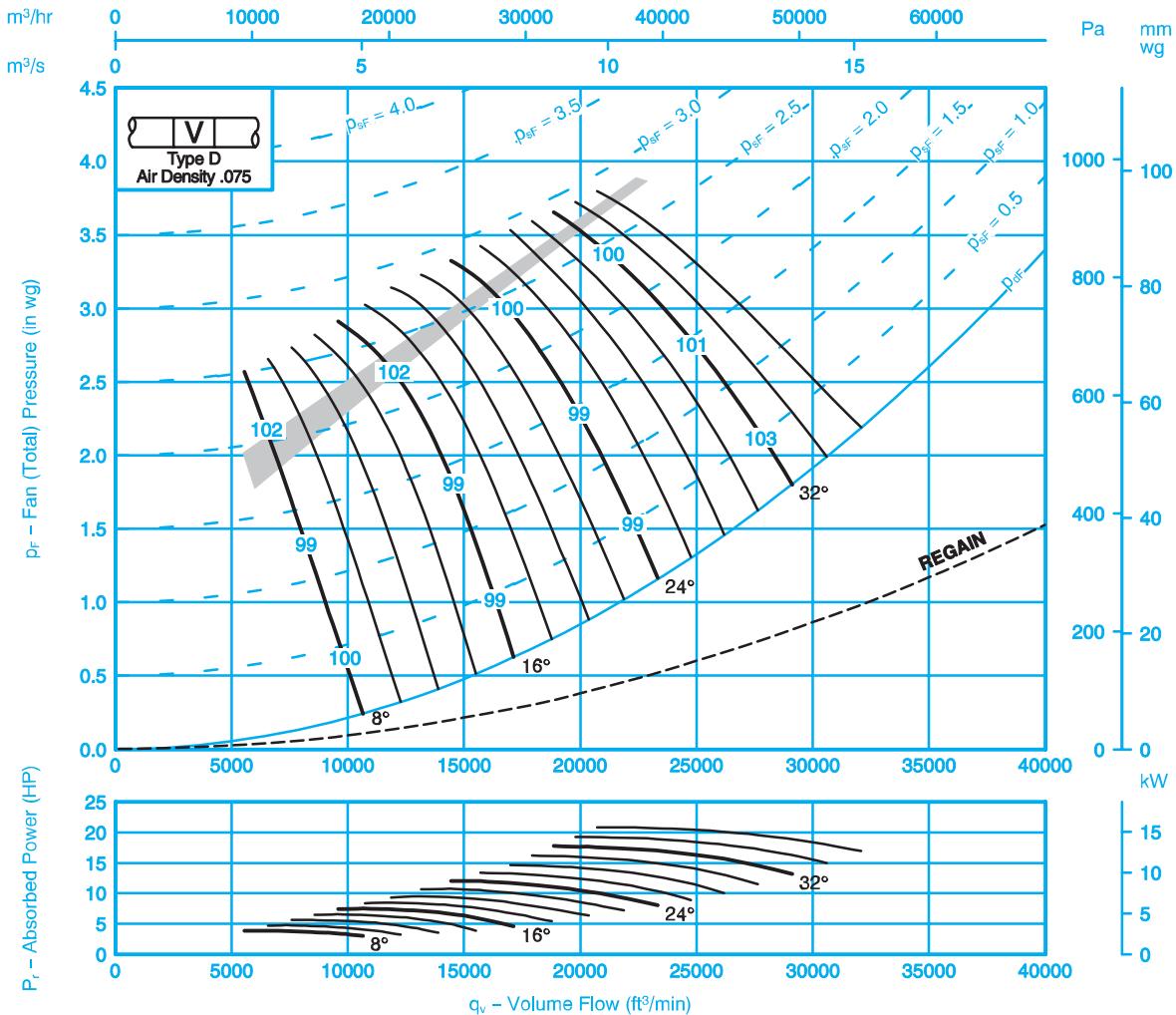
Fan Code: 80JM/25/4/9/...  
800 mm 1770 RPM  
9 Blades 60 Hz



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.

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
24-36°	-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	-6	-7	-12	-20
	-6	-11	-8	-7	-9	-10	-14	-18
24-36°	-3	-12	-11	-9	-8	-8	-12	-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

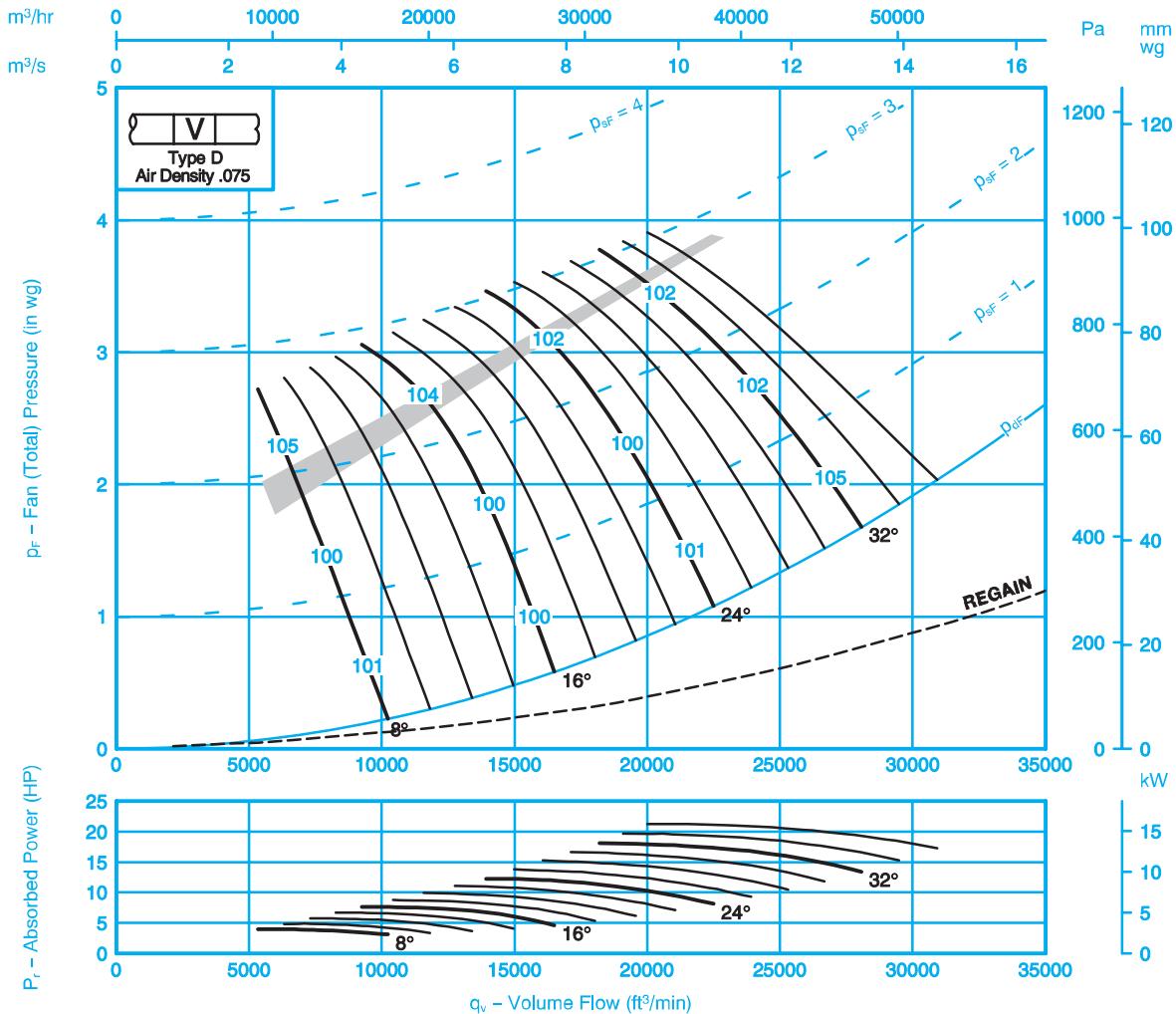
Fan Code: 80JM/31/4/9/...  
800 mm 1770 RPM  
9 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014  
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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	-7	-12	-20
	-6	-11	-8	-7	-9	-10	-14	-18
24-40°	-3	-12	-11	-9	-8	-8	-12	-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

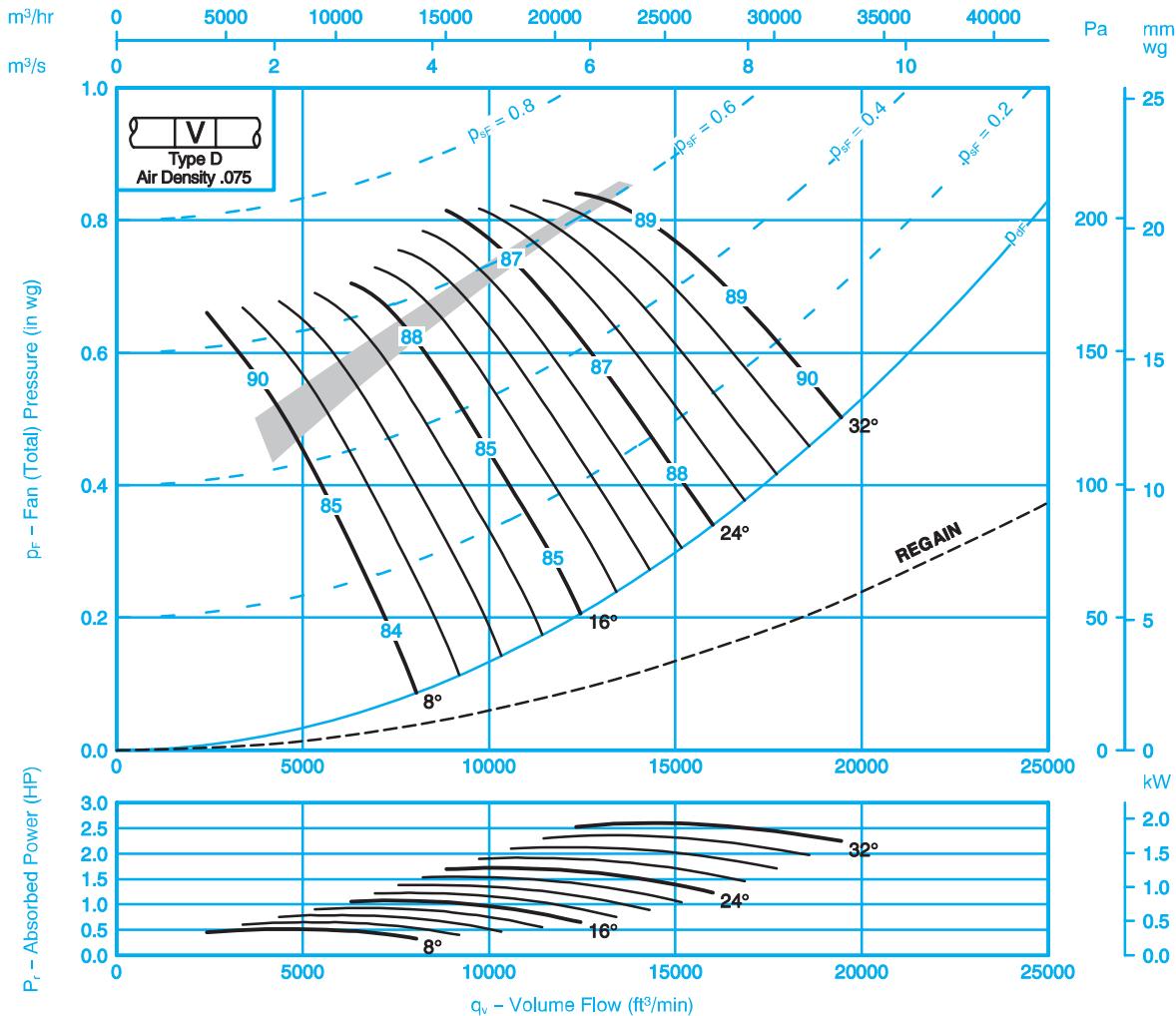
Fan Code: 90JM/25/8/6/...  
900 mm 875 RPM  
6 Blades 60 Hz



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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	-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

Pitch Angle	Outlet Levels							
	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	-20	-25
	-6	-6	-8	-8	-10	-12	-19	-22
24-32°	-6	-7	-7	-7	-8	-10	-13	-20
	-4	-7	-8	-8	-10	-13	-16	-21

SK10331

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



# JM AEROFOIL

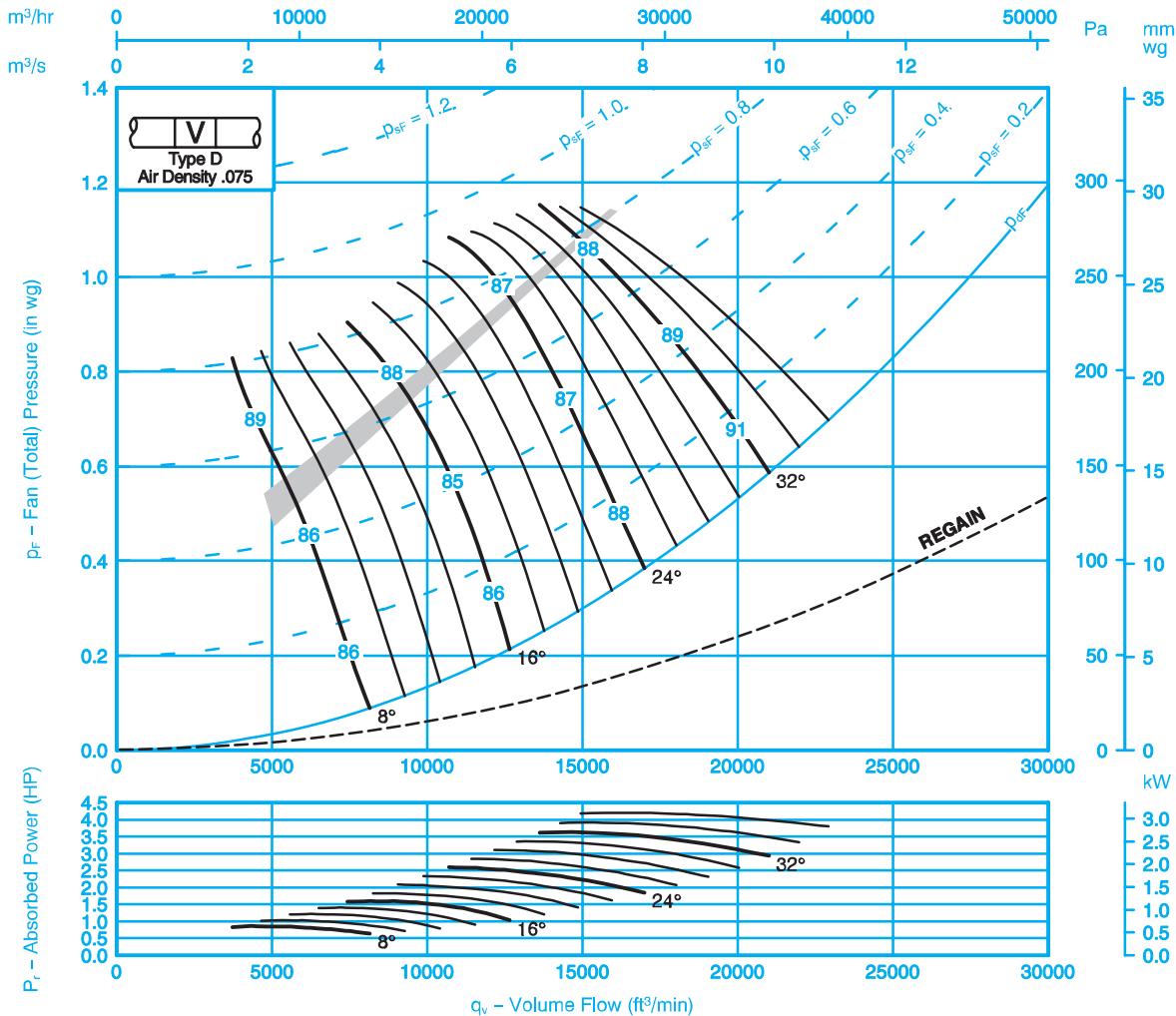
Fan Code: 90JM/25/8/9/...  
**900 mm 875 RPM**  
**9 Blades 60 Hz**



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°	-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

Outlet Levels								
Pitch Angle	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

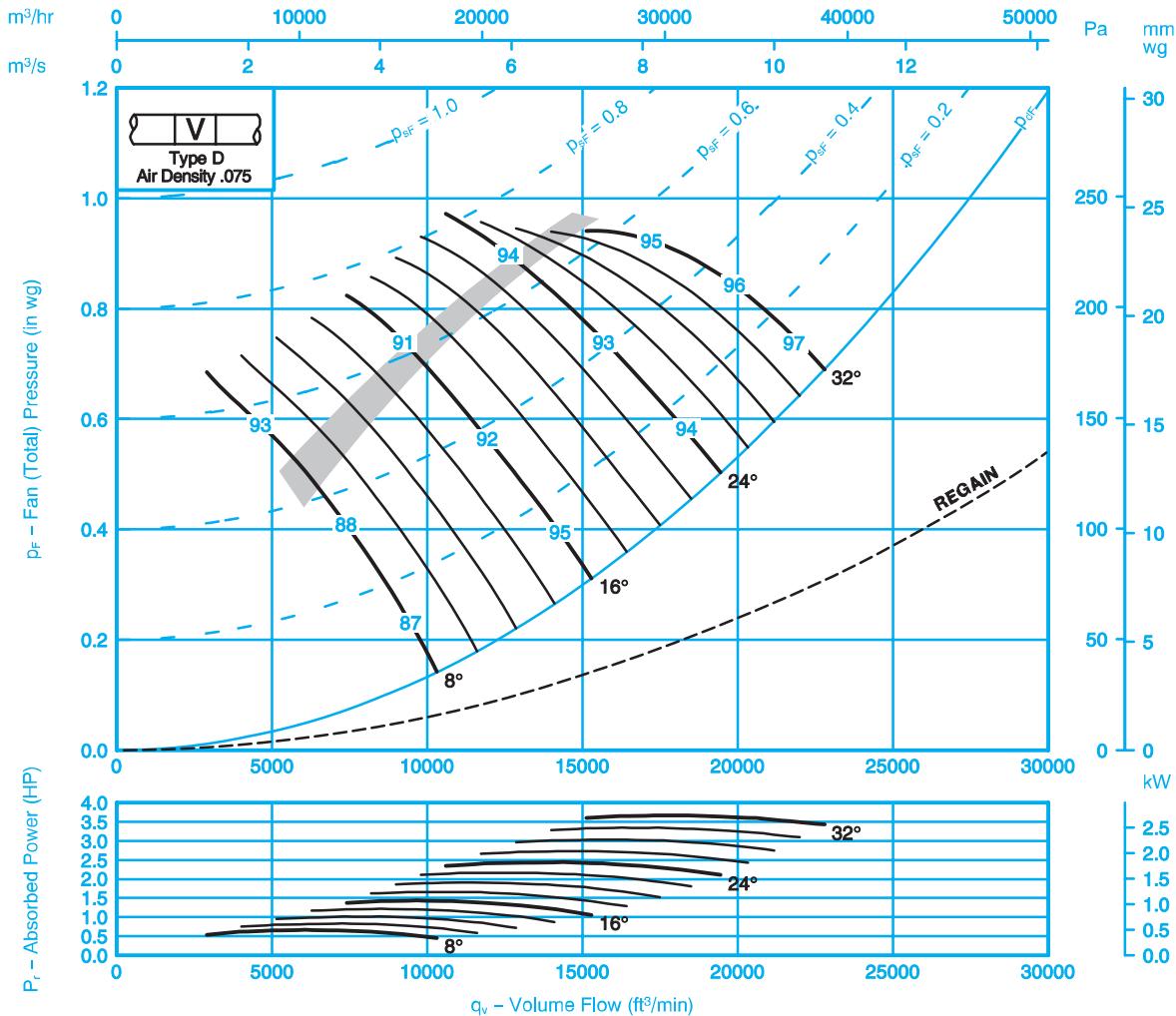
Fan Code: 90JM/25/6/3/  
900 mm 1170 RPM  
3 Blades 60 Hz



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**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	-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

Pitch Angle	Outlet Levels							
	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	-11	-13	-15
	-1	-10	-11	-12	-13	-13	-17	-20
24-32°	-3	-7	-8	-10	-10	-11	-13	-16
	-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

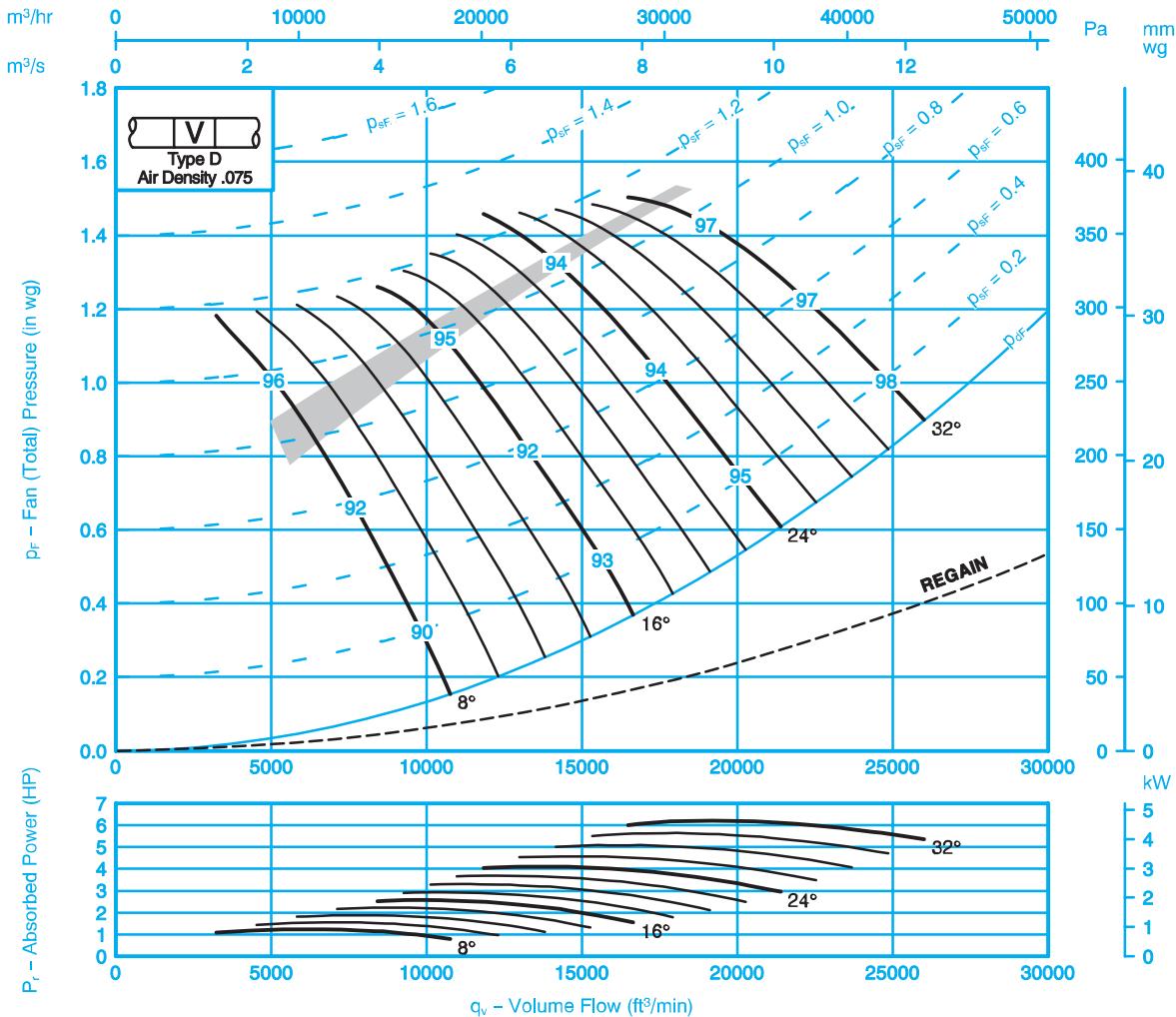
Fan Code: 90JM/25/6/6/  
900 mm 1170 RPM  
6 Blades 60 Hz



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	-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

Outlet Levels								
Pitch Angle	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

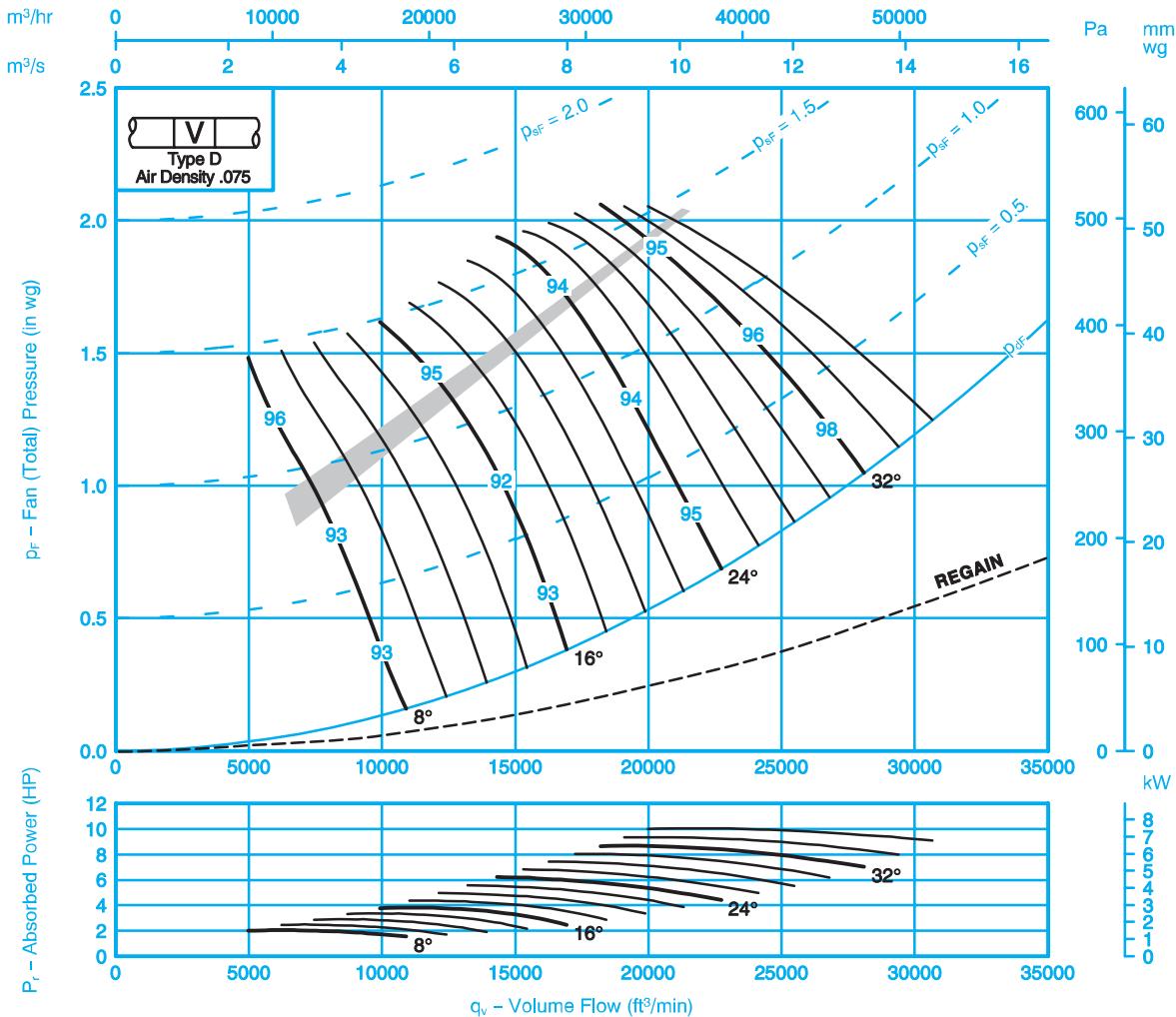
Fan Code: 90JM/25/6/9/...  
**900 mm 1170 RPM**  
**9 Blades 60 Hz**



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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	-8	-9	-10	-15
	-6	-7	-7	-8	-9	-12	-14	-18

SK10334

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



# JM AEROFOIL

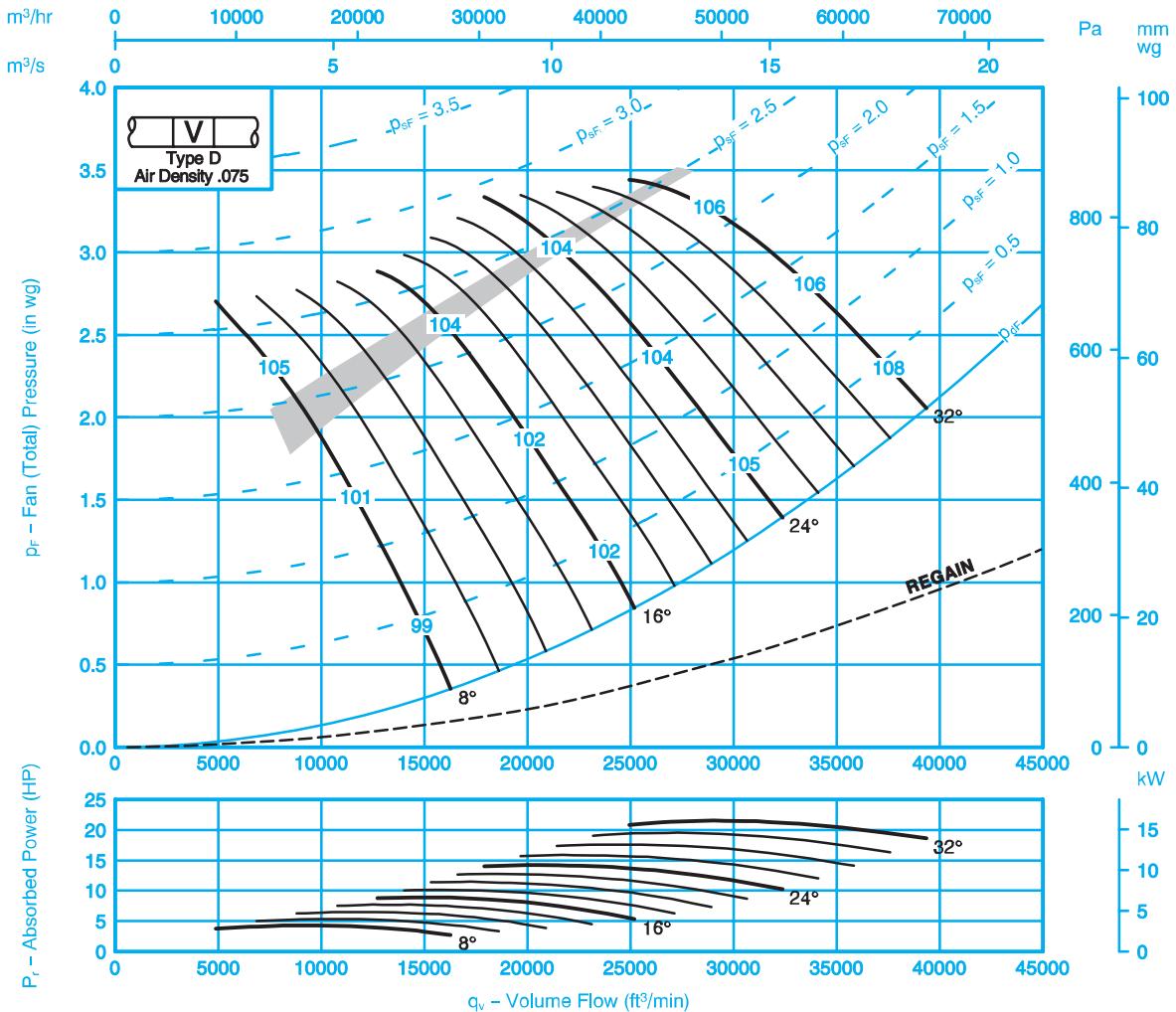
Fan Code: 90JM/25/4/6/...  
**900 mm 1770 RPM**  
**6 Blades 60 Hz**



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**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	-9	-10	-13
24-32°	-5	-8	-9	-8	-8	-10	-11	-14
	-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



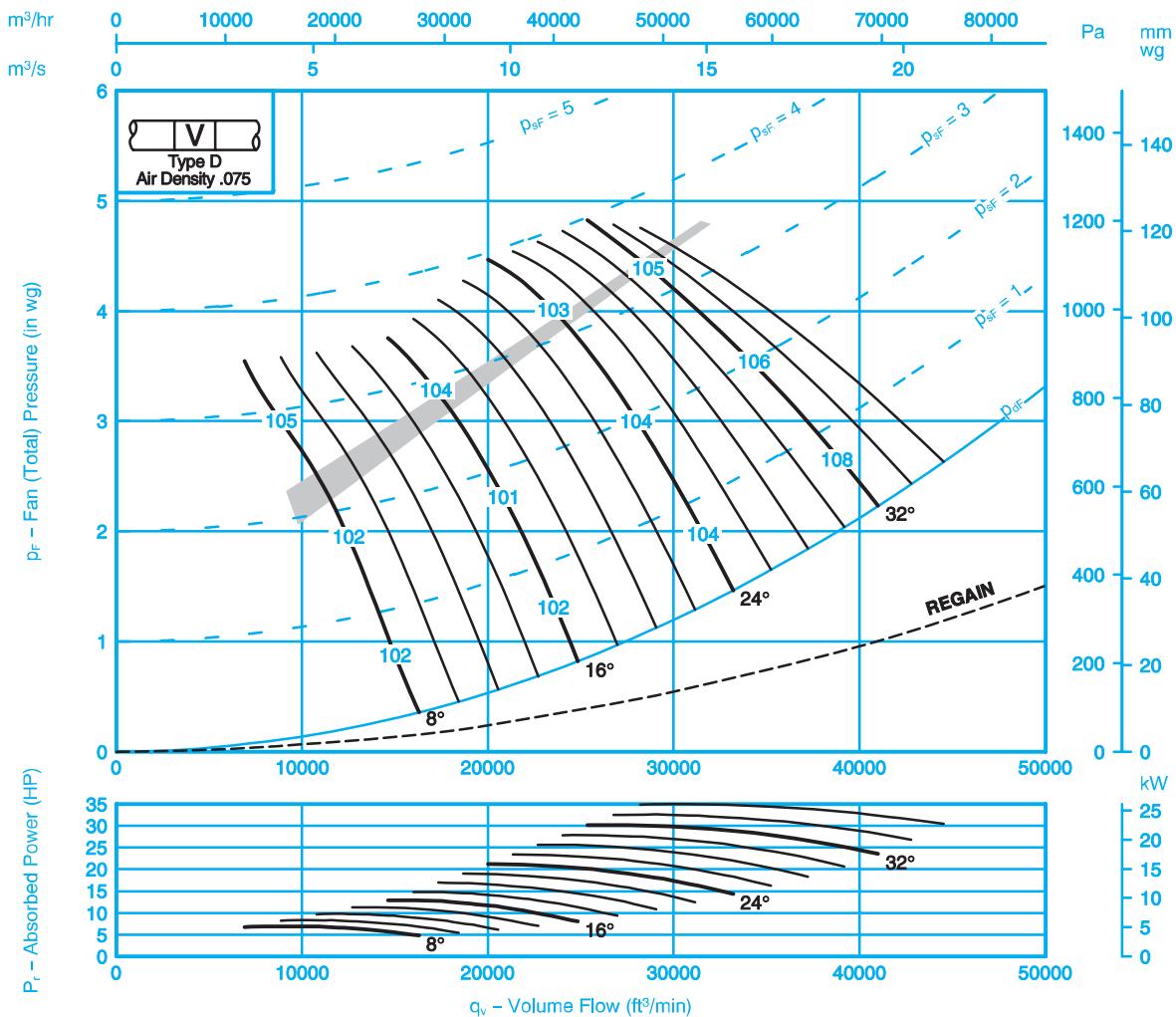
# JM AEROFOIL

Fan Code: 90JM/31/4/9/...  
**900 mm 1770 RPM**  
**9 Blades 60 Hz**



2933 Symmes Road, Fairfield, Ohio 45014  
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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	-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

Outlet Levels								
Pitch Angle	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	-8	-7	-5	-8	-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

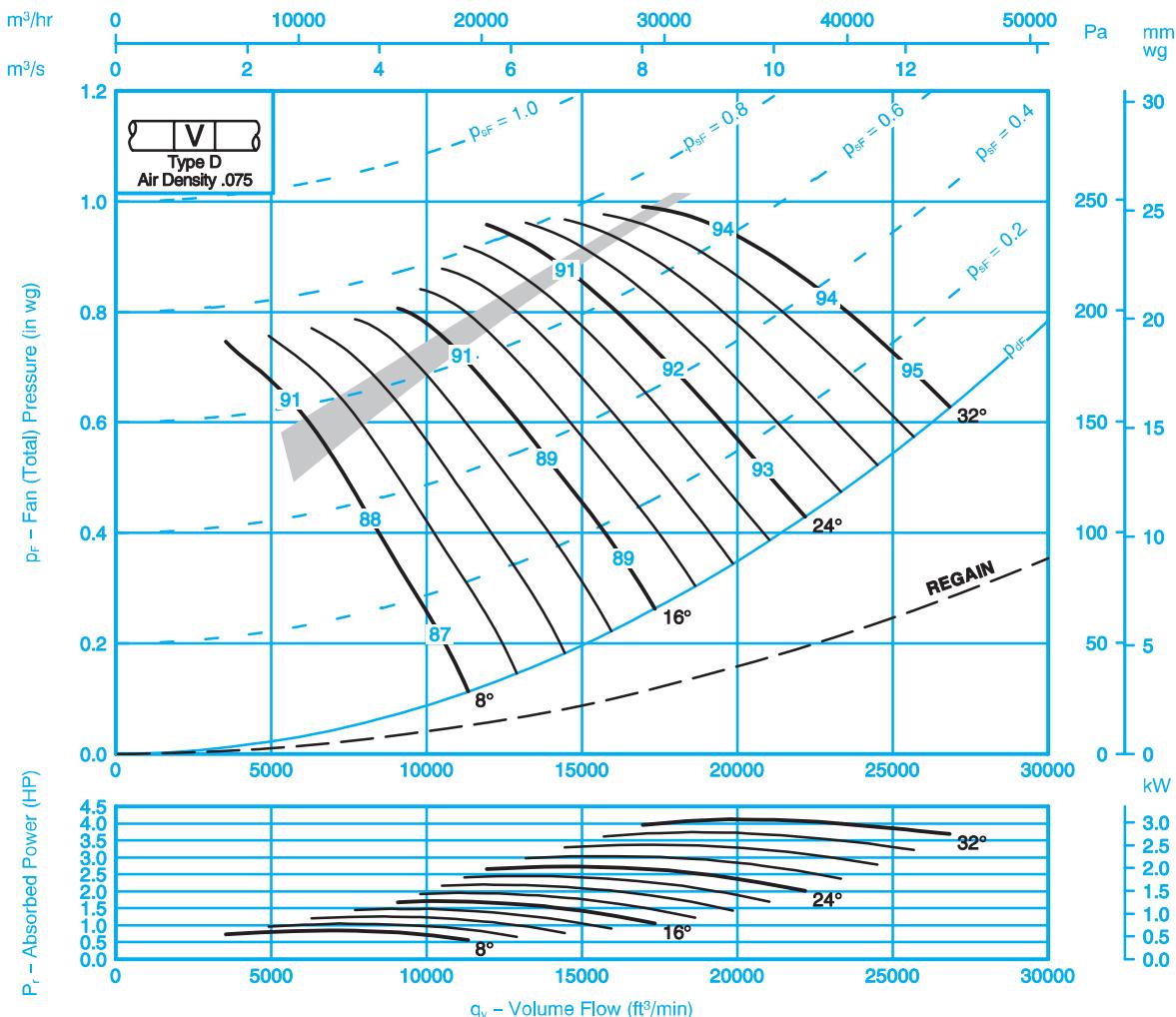
Fan Code: 100JM/25/8/6/...  
1000 mm 875 RPM  
6 Blades 60 Hz



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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.

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	-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

Outlet Levels								
Pitch Angle	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	-9	-13	-21
	-4	-8	-8	-9	-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



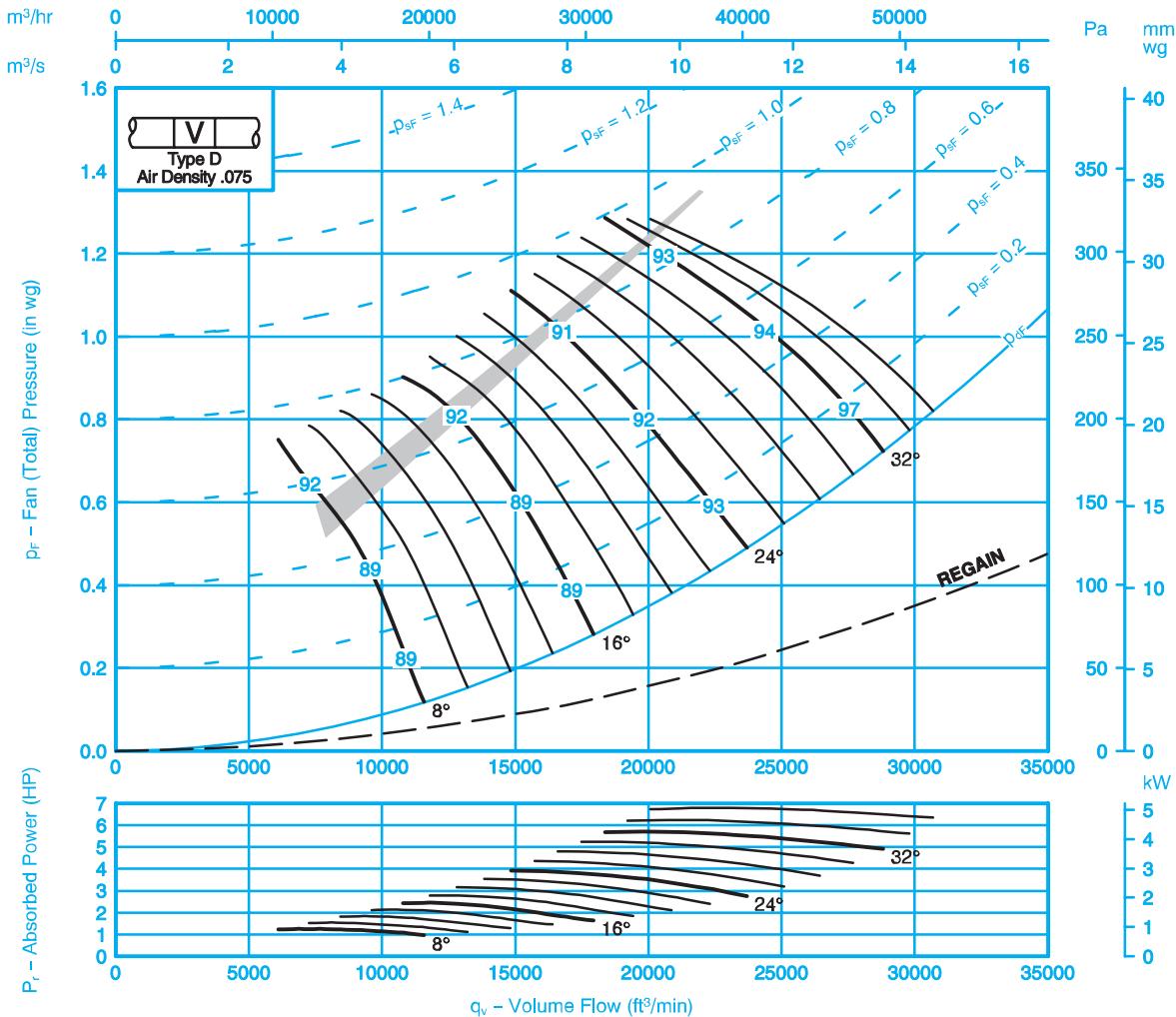
# JM AEROFOIL

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

SK10338

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



# JM AEROFOIL

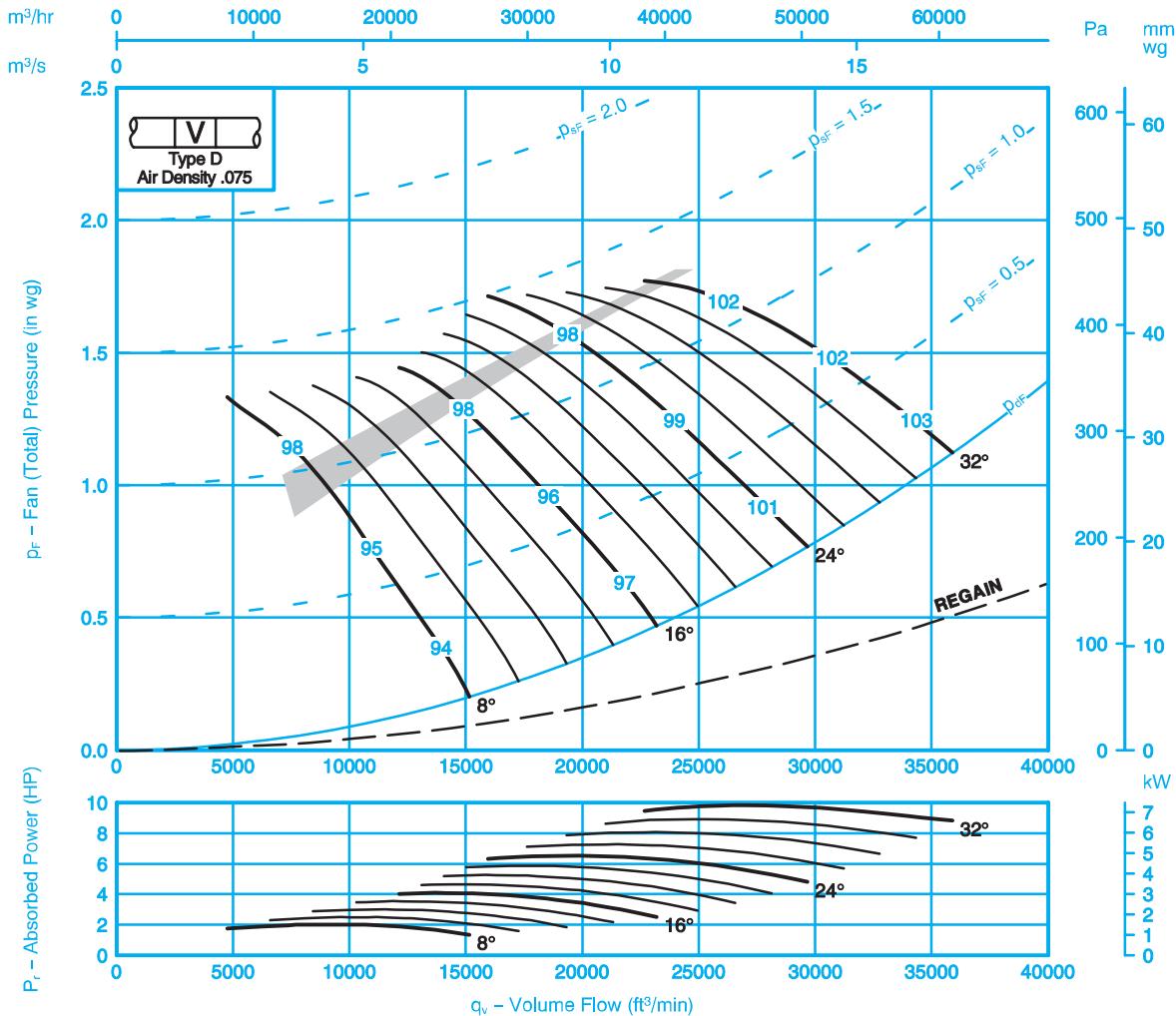
Fan Code: 100JM/25/6/6/...  
1000 mm 1170 RPM  
6 Blades 60 Hz



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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

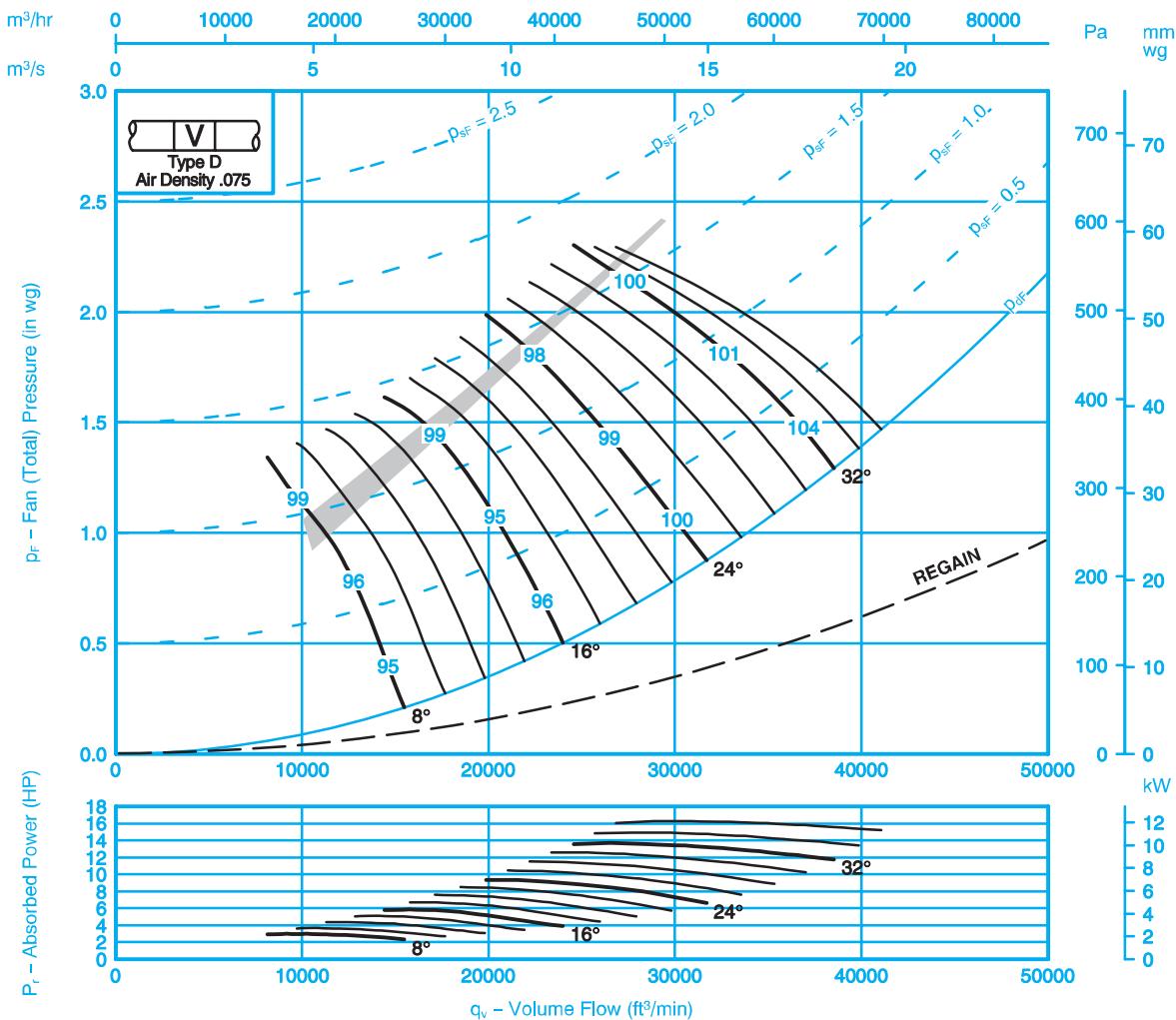
Fan Code: 100JM/25/6/9/...  
1000 mm 1170 RPM  
9 Blades 60 Hz



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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.

Pitch Angle	Inlet Levels							
	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

Pitch Angle	Outlet Levels							
	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	-9	-7	-9	-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

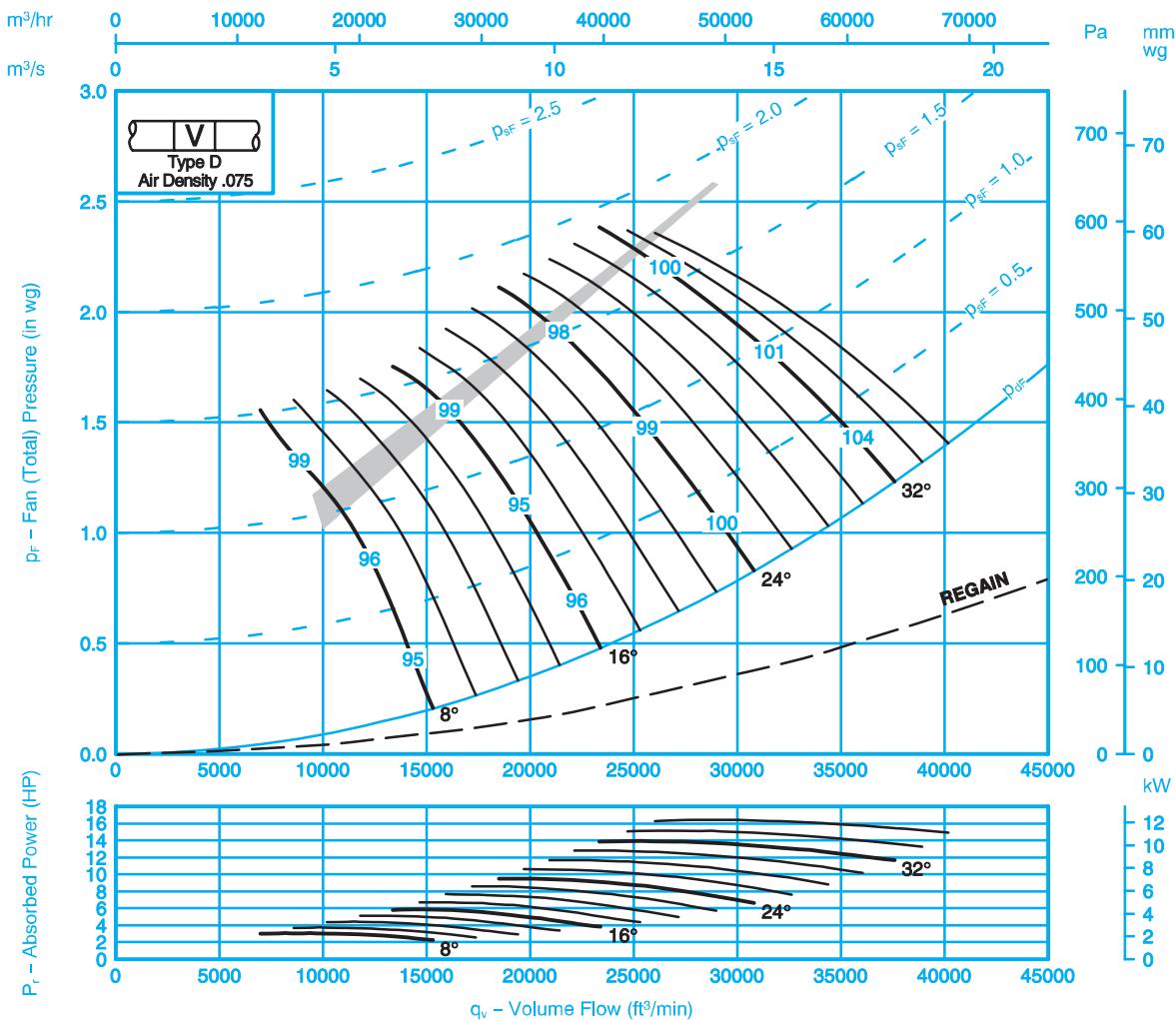
Fan Code: 100JM/31/6/9/...  
1000 mm 1170 RPM  
9 Blades 60 Hz



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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.

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

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

SK10341

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



# JM AEROFOIL

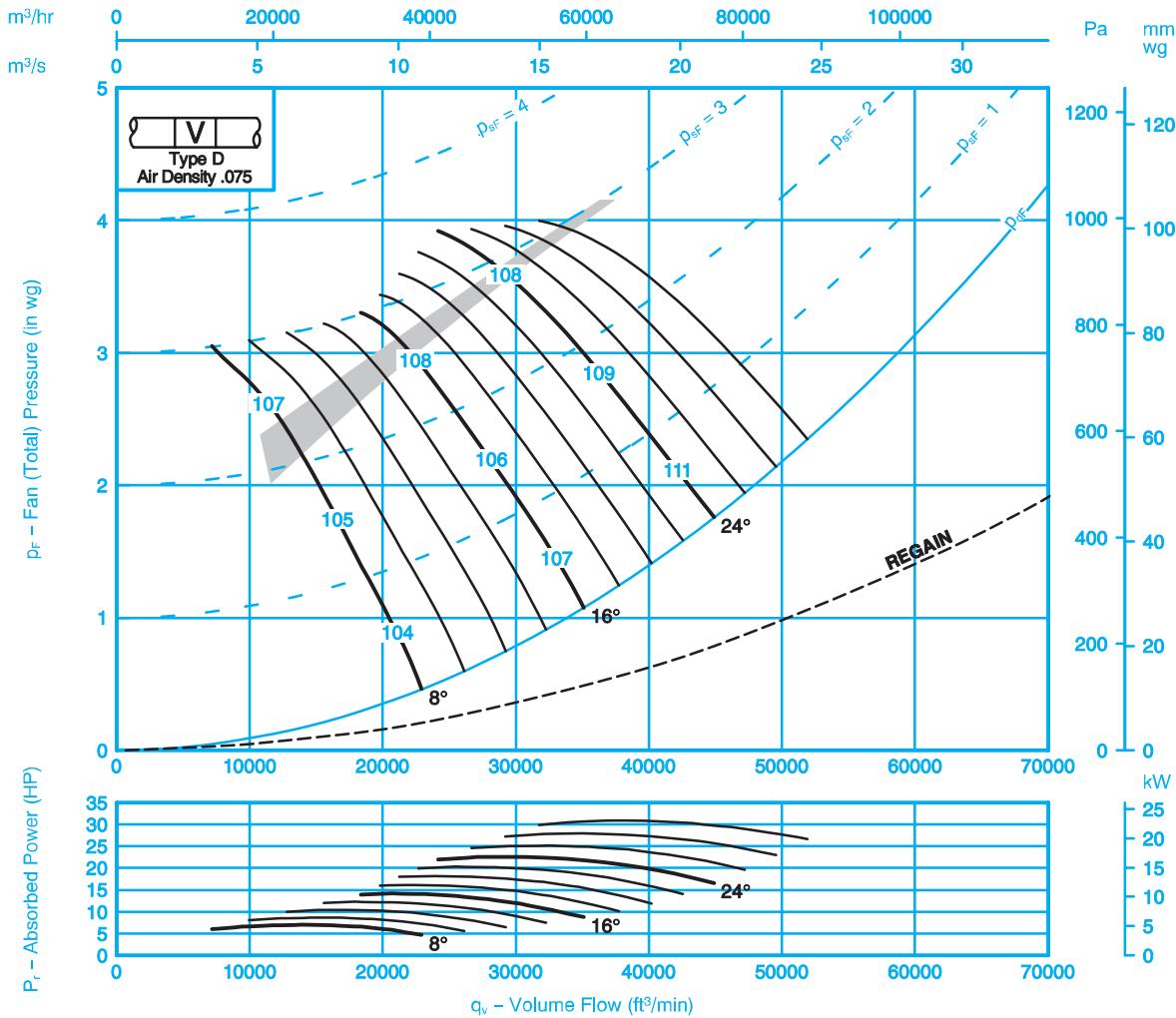
Fan Code: 100JM/25/4/6/...  
1000 mm 1770 RPM  
6 Blades 60 Hz



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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°	-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

Pitch Angle	Outlet Levels							
	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

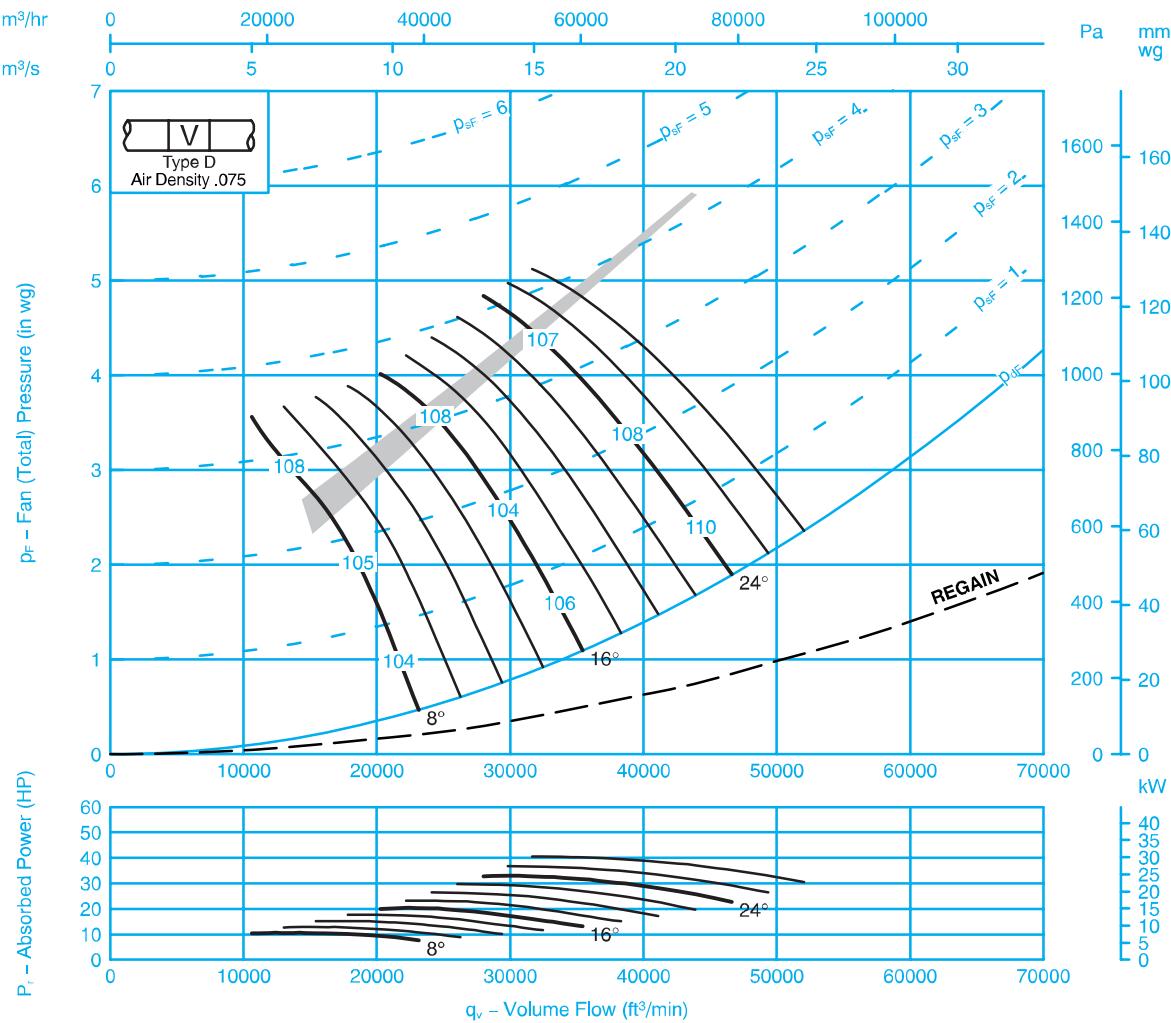
Fan Code: 100JM/31/4/9/...  
1000 mm 1770 RPM  
9 Blades 60 Hz



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**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°	-21 -17	-21 -18	-15 -11	-10 -10	-4 -7	-5 -4	-11 -8	-18 -14
16°	-15 -10	-16 -11	-12 -8	-8 -8	-4 -7	-6 -8	-11 -12	-18 -16
24-28°	-8 -7	-9 -7	-9 -8	-8 -9	-8 -10	-8 -10	-12 -13	-16 -17

Pitch Angle	Outlet Levels							
	63	125	250	500	1k	2k	4k	8k
8°	-20 -17	-20 -18	-13 -9	-9 -10	-4 -7	-5 -3	-10 -8	-16 -13
16°	-14 -9	-16 -11	-12 -8	-8 -8	-4 -6	-6 -7	-10 -11	-16 -15
24-28°	-7 -6	-9 -7	-9 -7	-8 -9	-8 -10	-8 -10	-11 -12	-14 -15

SK10342

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



# JM AEROFOIL

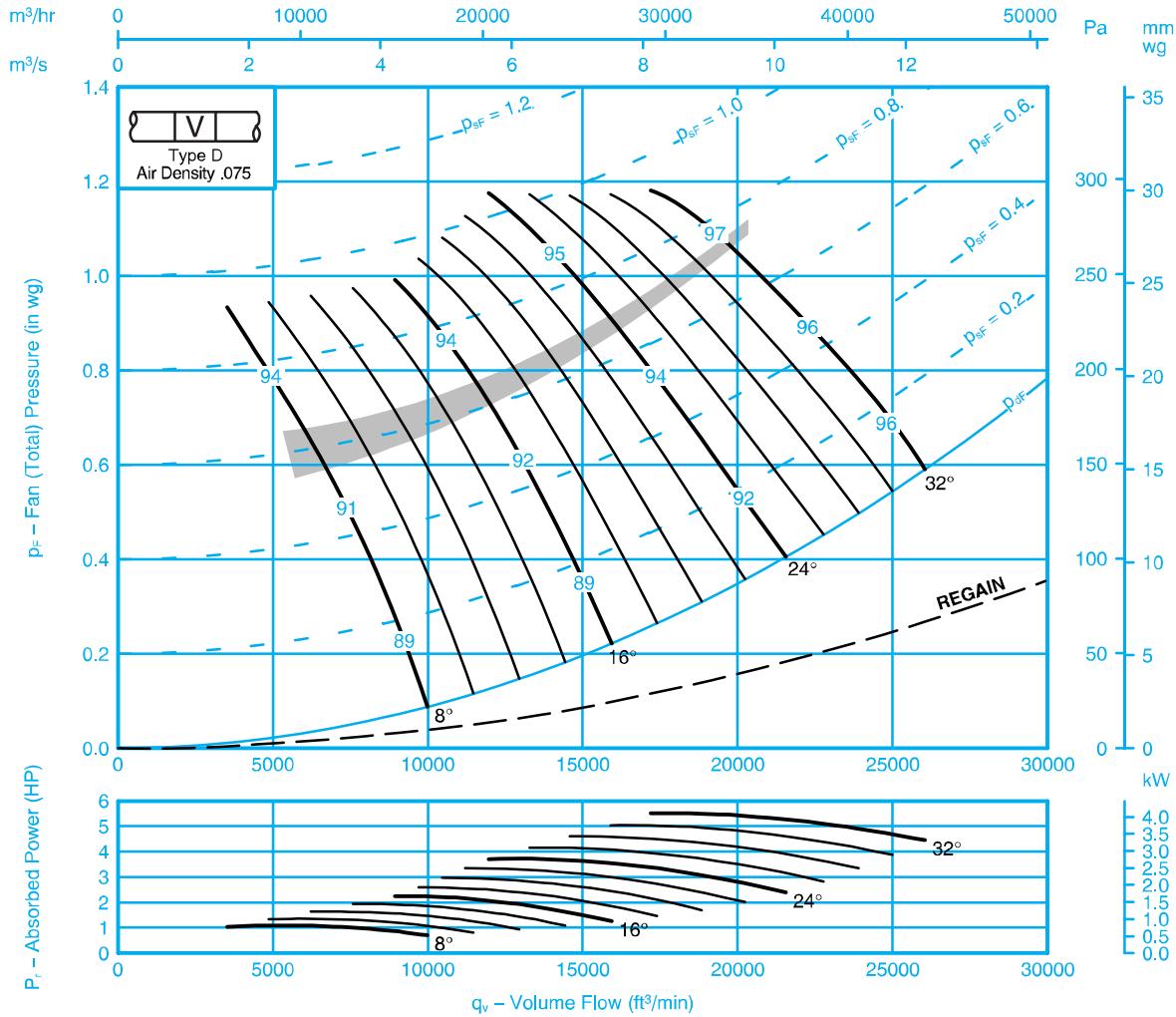
Fan Code: 100JM/40/8/6/...  
1000 mm 875 RPM  
6 Blades 60 Hz



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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°	-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							
	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



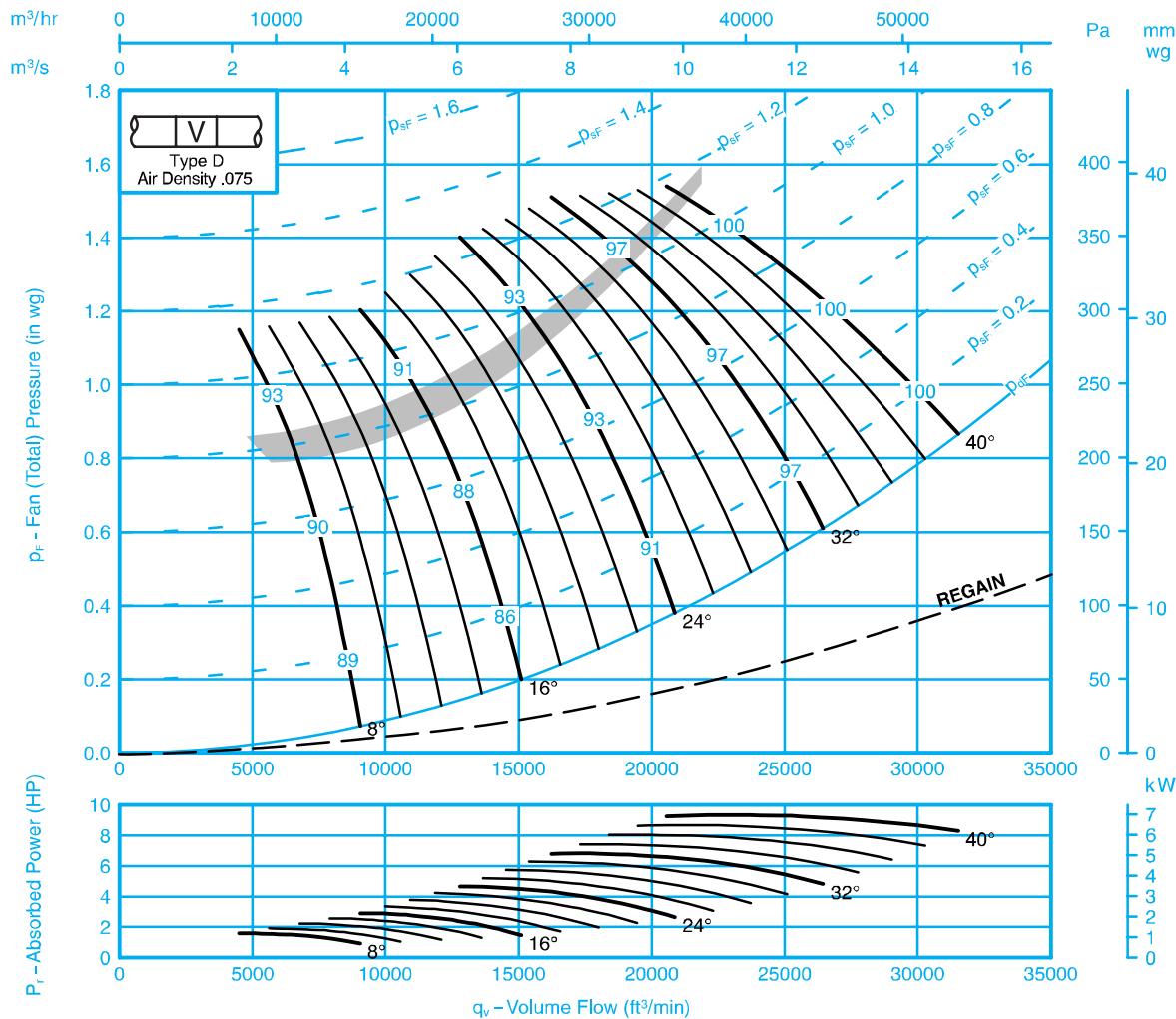
# JM AEROFOIL

Fan Code: 100JM/40/8/9/...  
1000 mm 875 RPM  
9 Blades 60 Hz



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**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



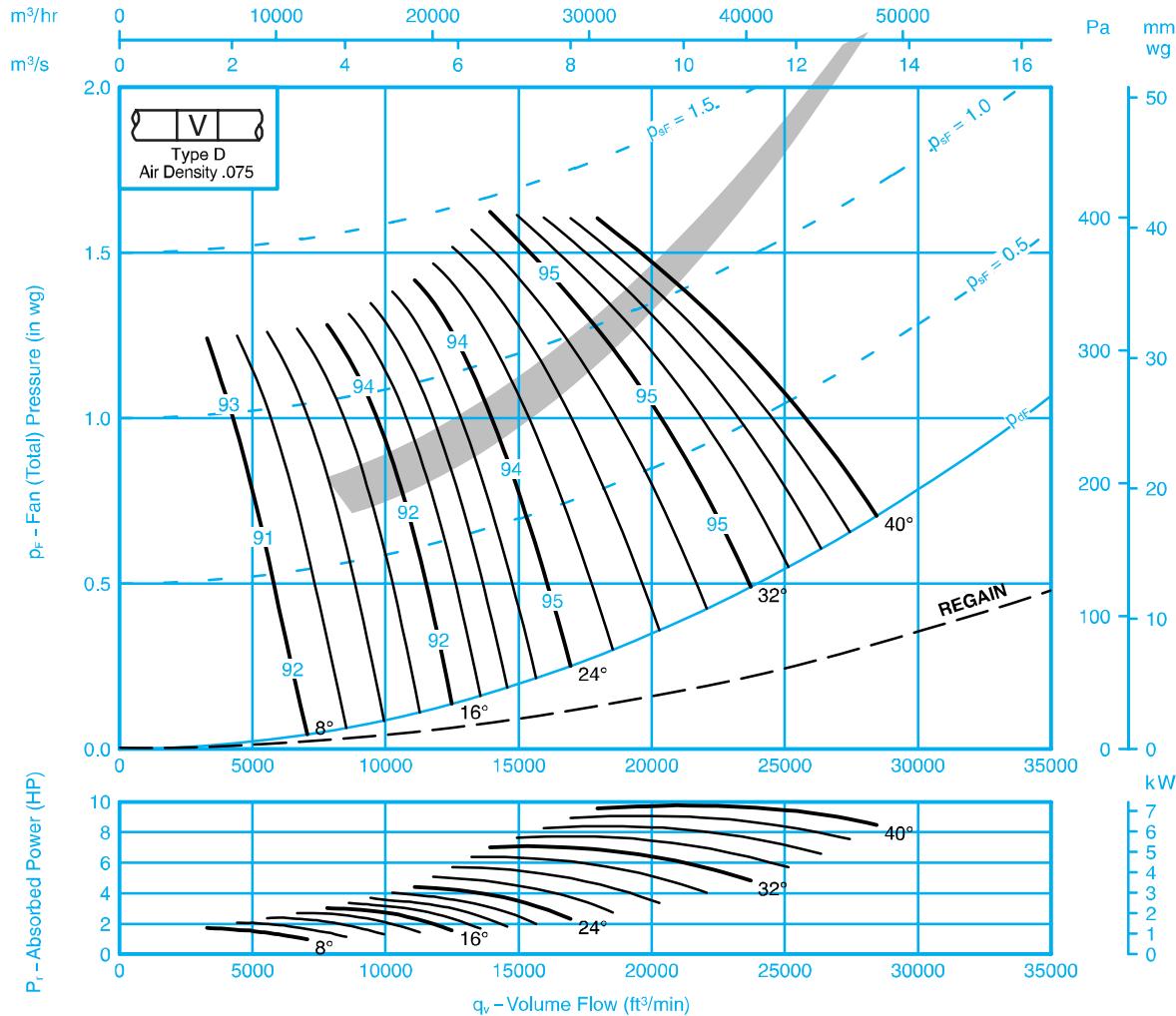
# JM AEROFOIL

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



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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	-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

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
24-40°	-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

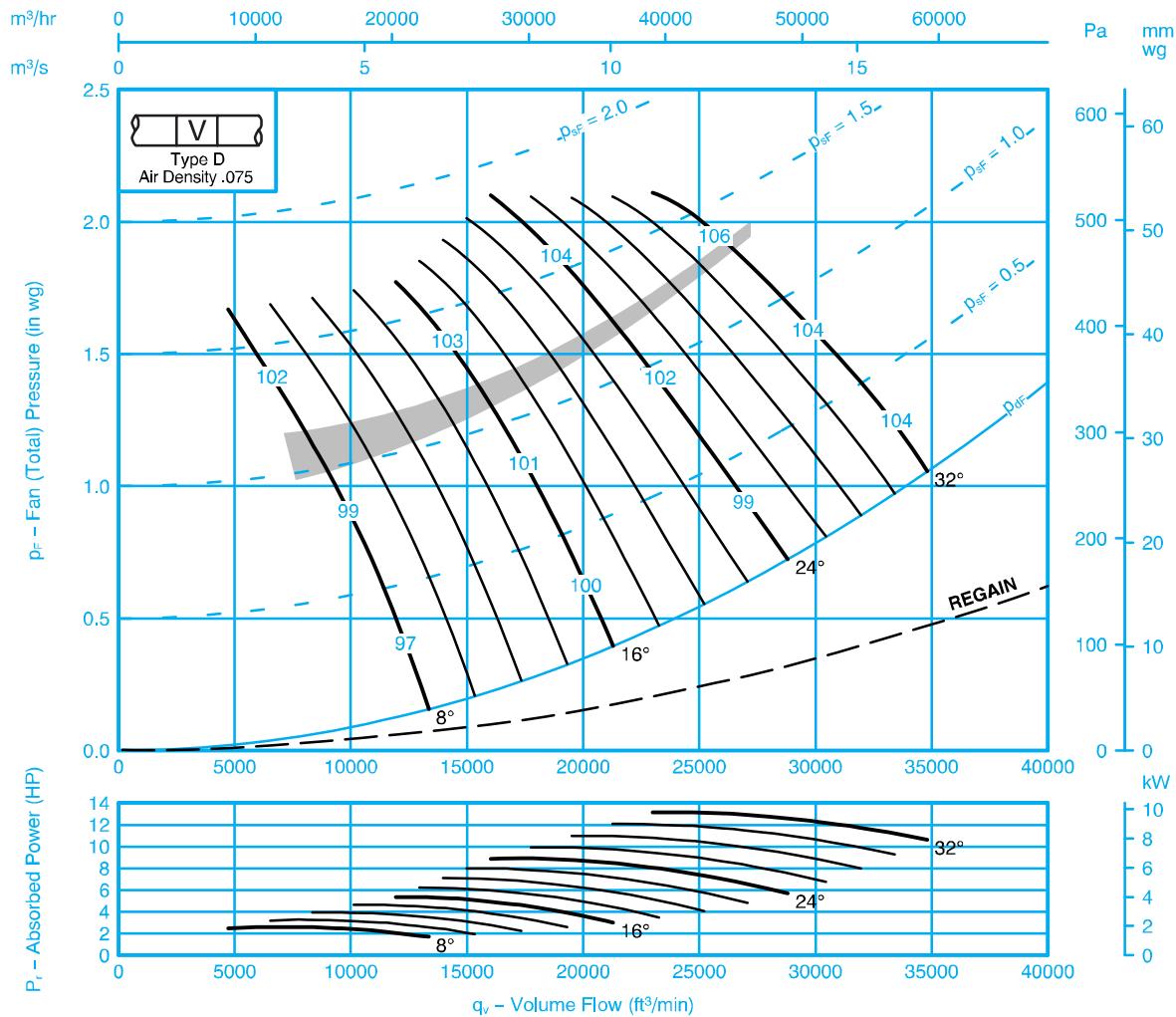
Fan Code: 100JM/40/6/6/  
1000 mm 1170 RPM  
6 Blades 60 Hz



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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	-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

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

SK11499

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



# JM AEROFOIL

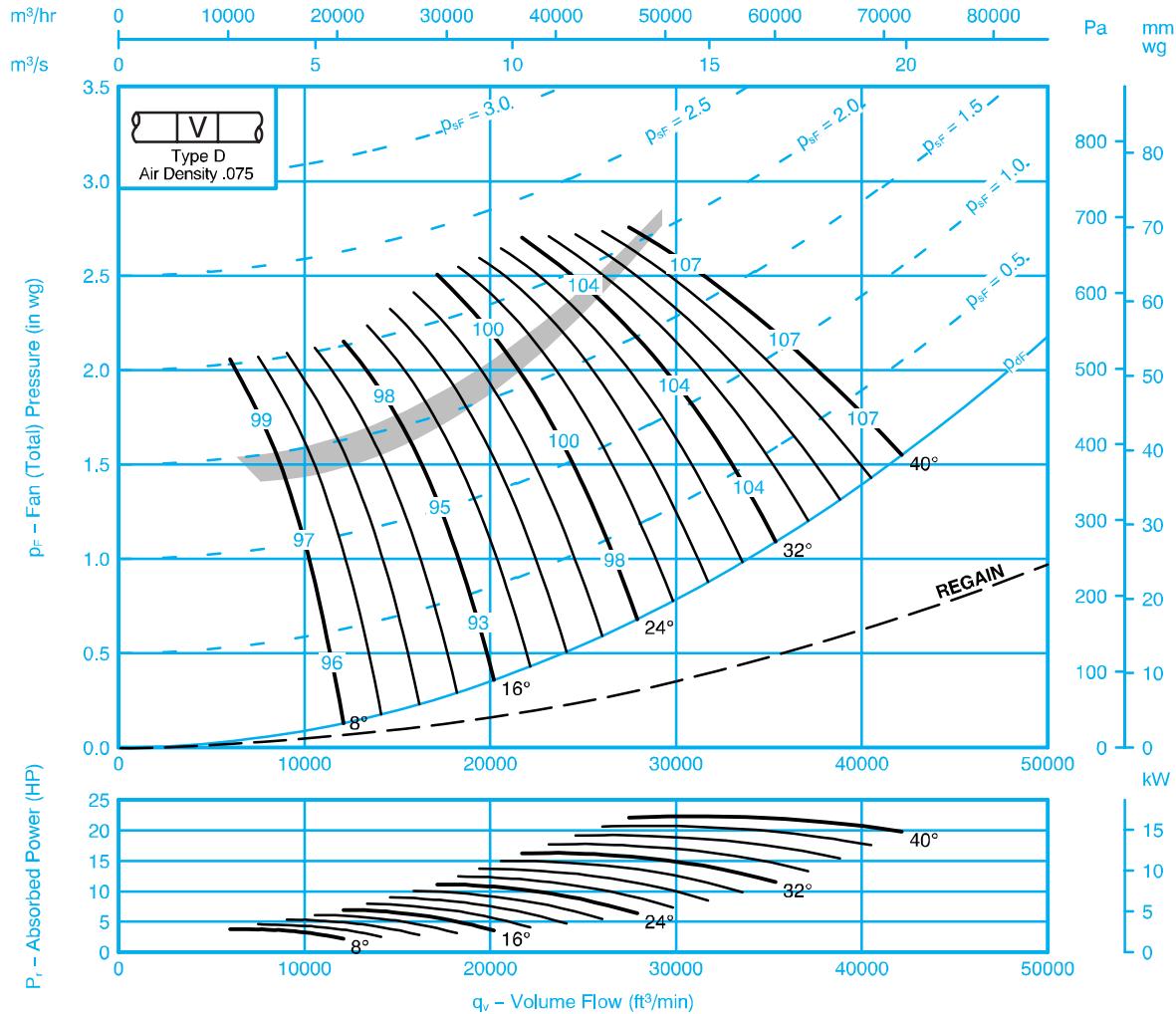
Fan Code: 100JM/40/6/9/...  
**1000 mm 1170 RPM**  
**9 Blades 60 Hz**



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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	-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

Pitch Angle	Outlet Levels							
	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

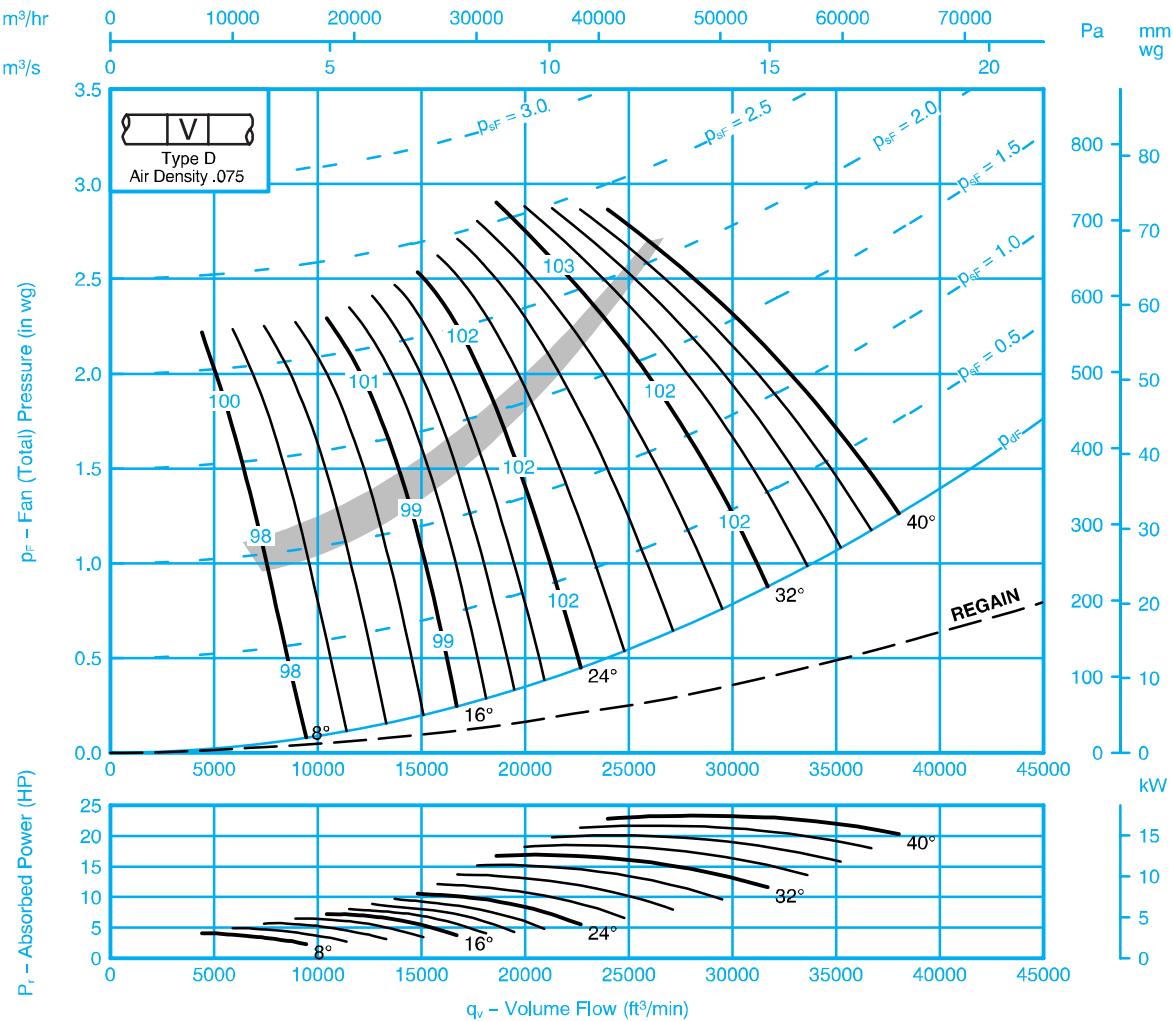
Fan Code: 100JM/50/6/12/...  
**1000 mm 1170 RPM**  
**12 Blades 60 Hz**



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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

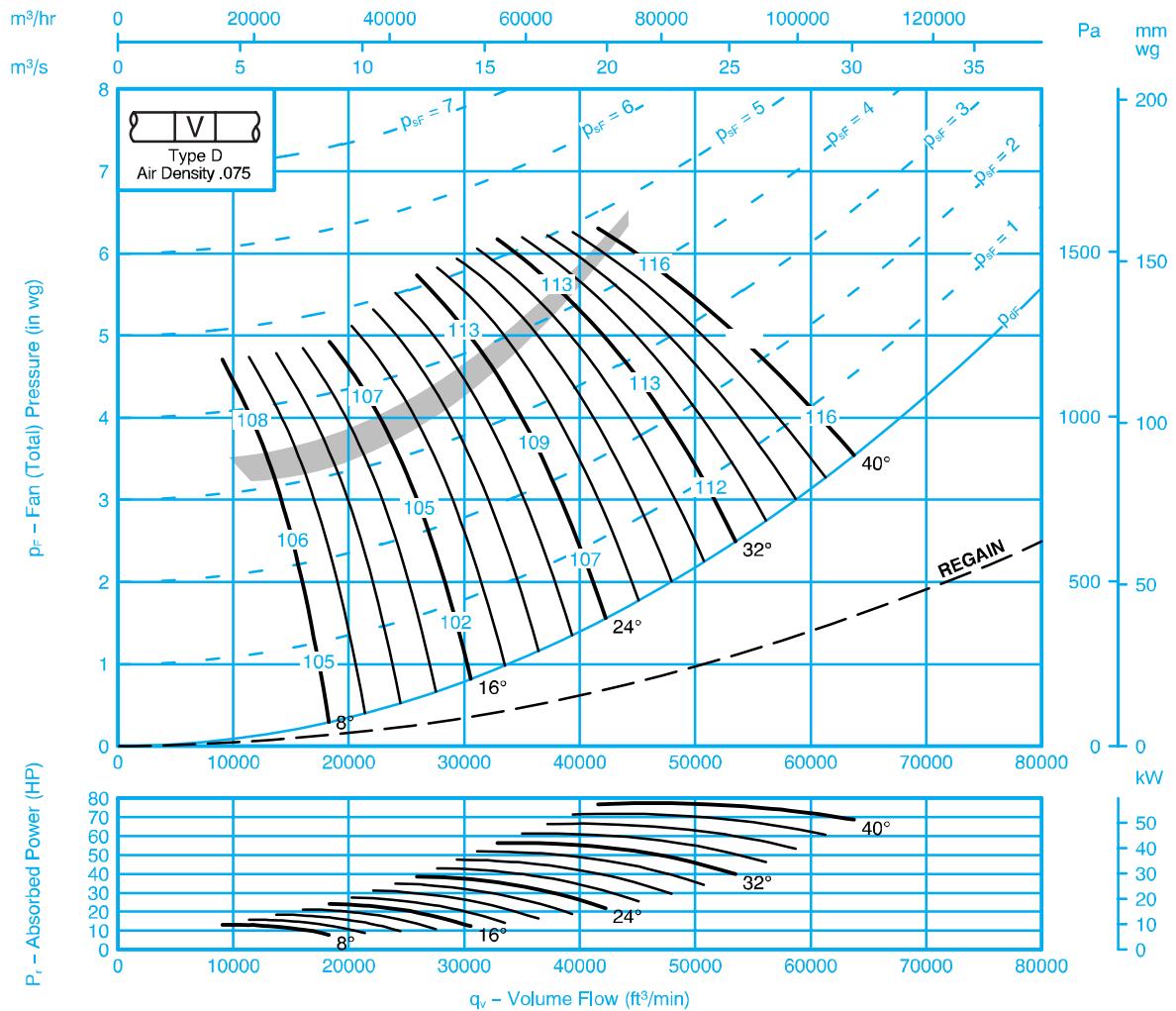
Fan Code: 100JM/40/4/9/  
1000 mm 1770 RPM  
9 Blades 60 Hz



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.

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°	-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

Pitch Angle	Outlet Levels							
	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

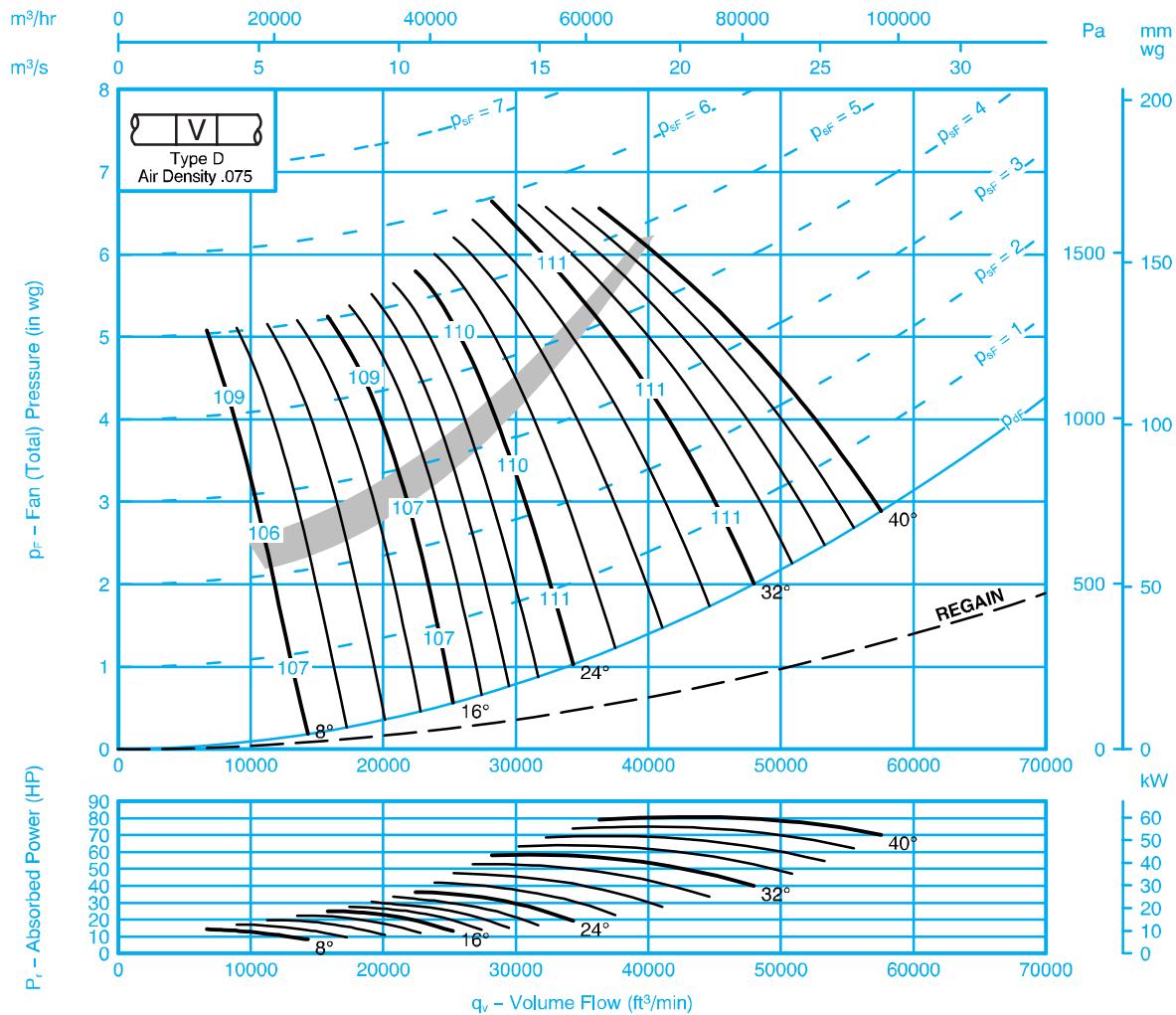
Fan Code: 100JM/50/4/12/...  
1000 mm 1770 RPM  
12 Blades 60 Hz



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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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°	-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

SK11504

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



# JM AEROFOIL

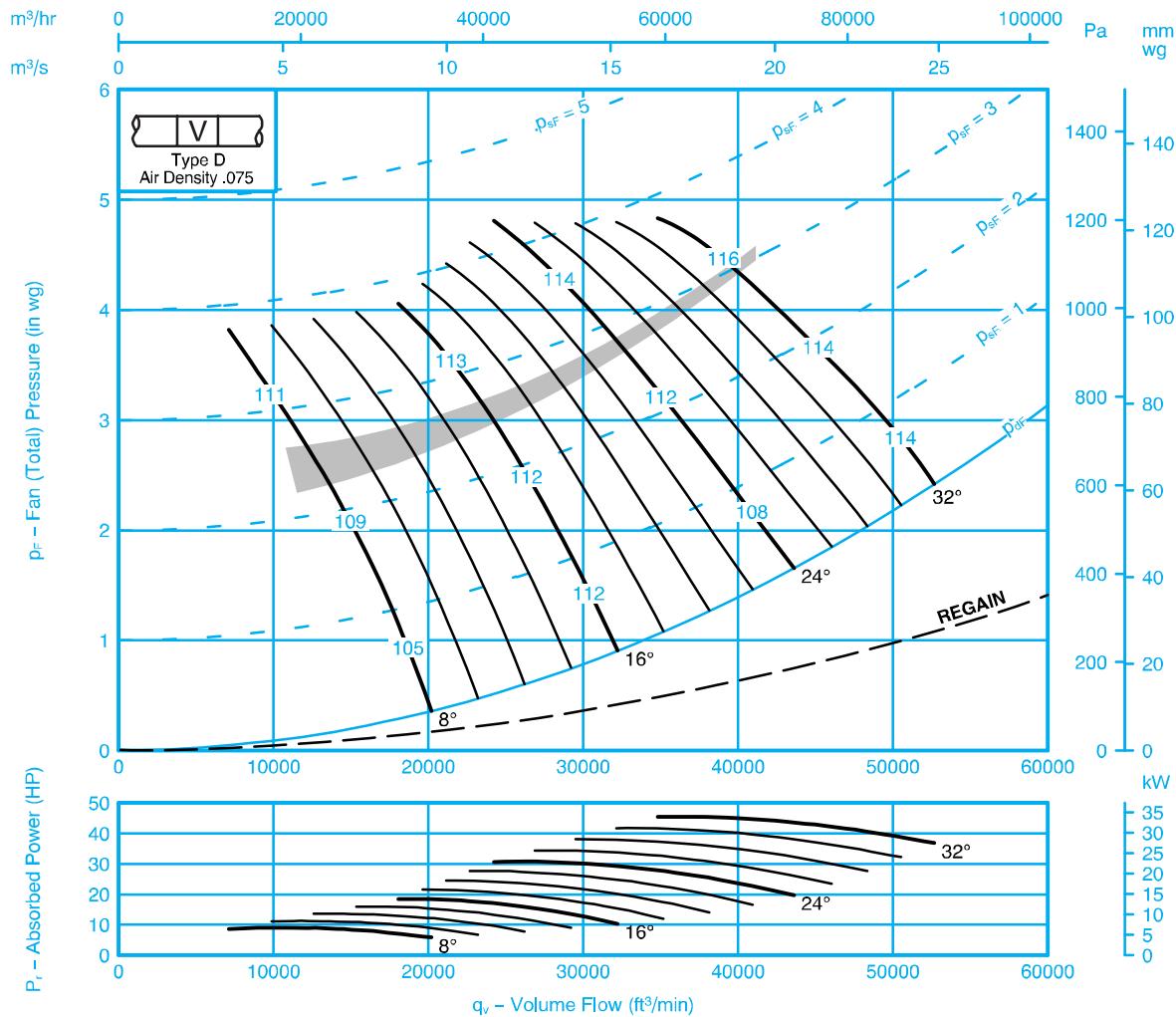
Fan Code: 100JM/40/4/6/  
1000 mm 1770 RPM  
6 Blades 60 Hz



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.

Pitch Angle	Inlet Levels							
	Octave Band Center Frequency (Hz)							
	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							
	Octave Band Center Frequency (Hz)							
	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	-9	-15	-14	-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

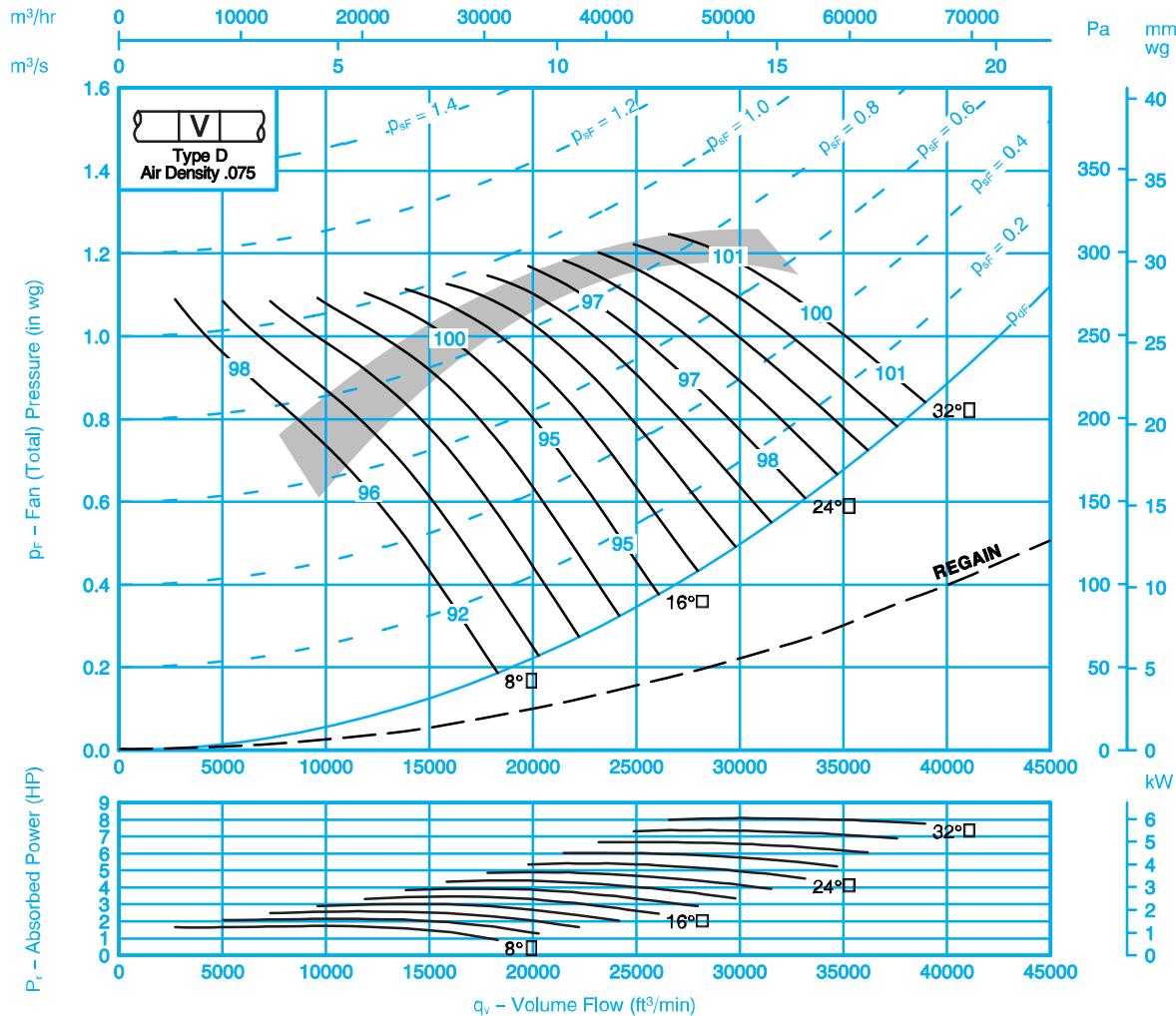
6 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014  
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							
	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

Pitch Angle	Outlet Levels							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-12	-6	-5	-8	-13	-19	-24
	-10	-11	-10	-7	-6	-8	-15	-20
16°	-13	-13	-7	-4	-8	-14	-18	-25
	-6	-9	-8	-7	-8	-11	-15	-20
24-32°	-6	-8	-7	-8	-10	-12	-16	-19
	-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

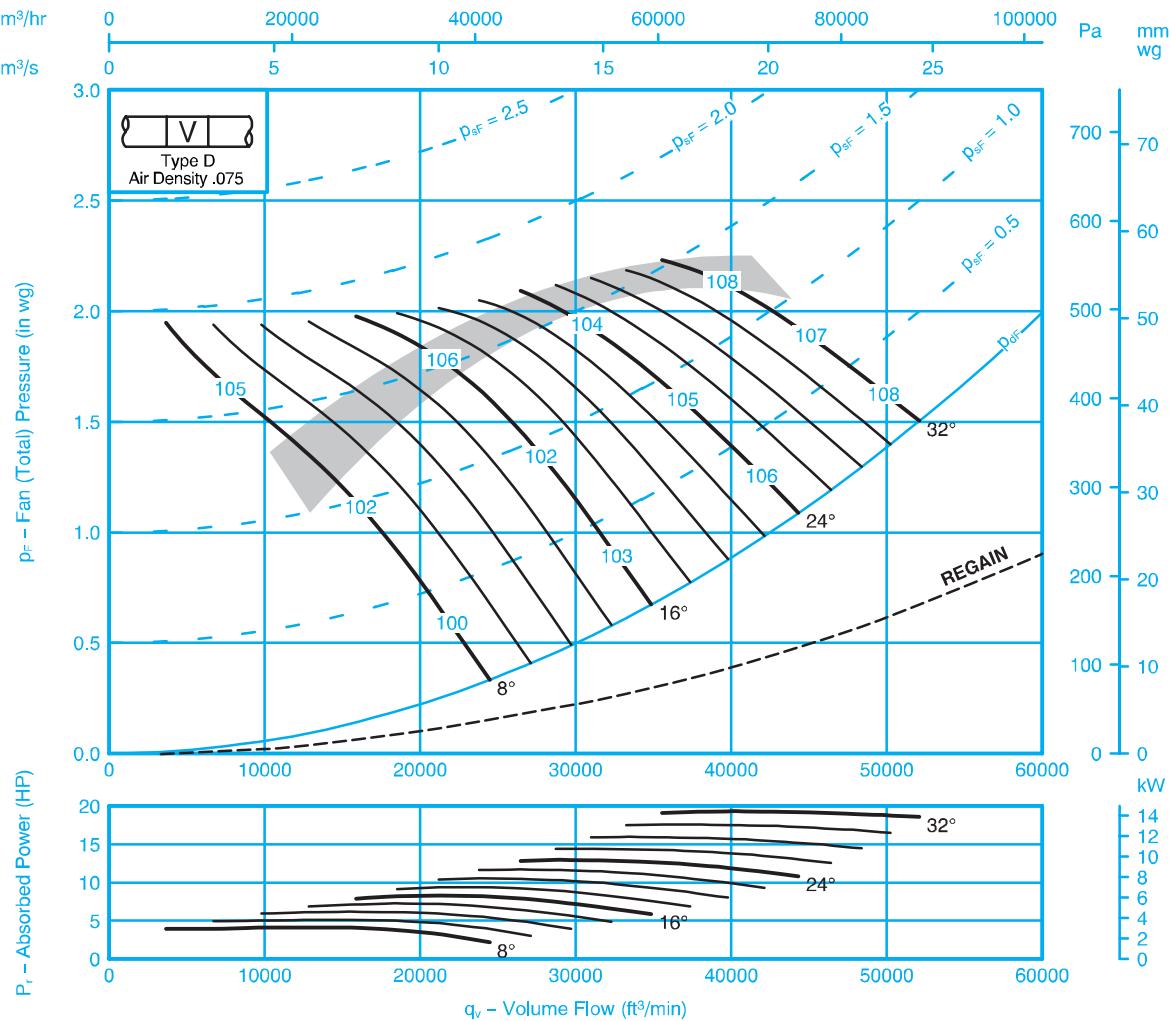
Fan Code: 112JM/31/6/6/  
1120 mm 1170 RPM  
6 Blades 60 Hz



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

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°	-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

Pitch Angle	Outlet Levels							
	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

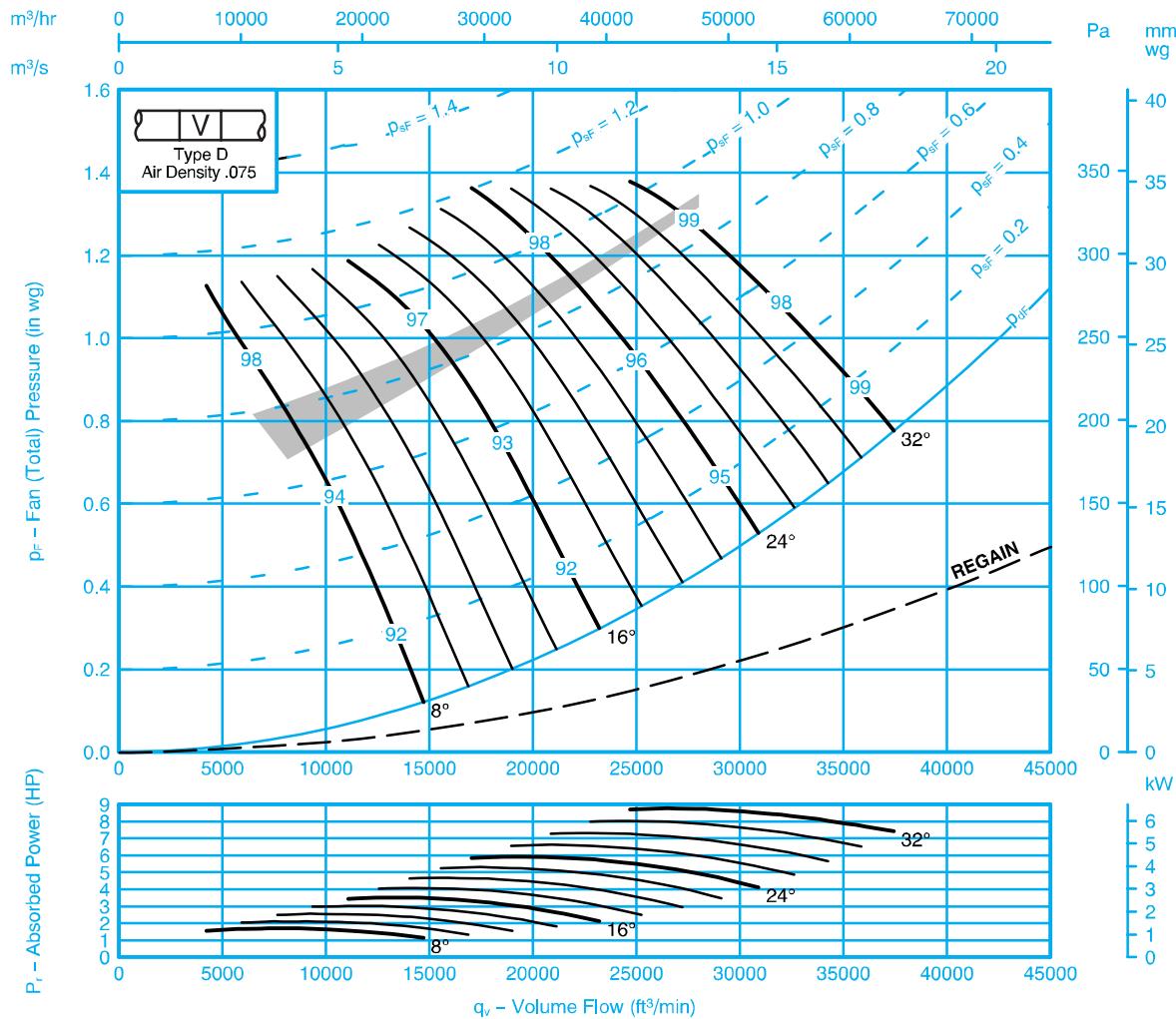
6 Blades 60 Hz



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.

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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°	-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	-8	-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/...

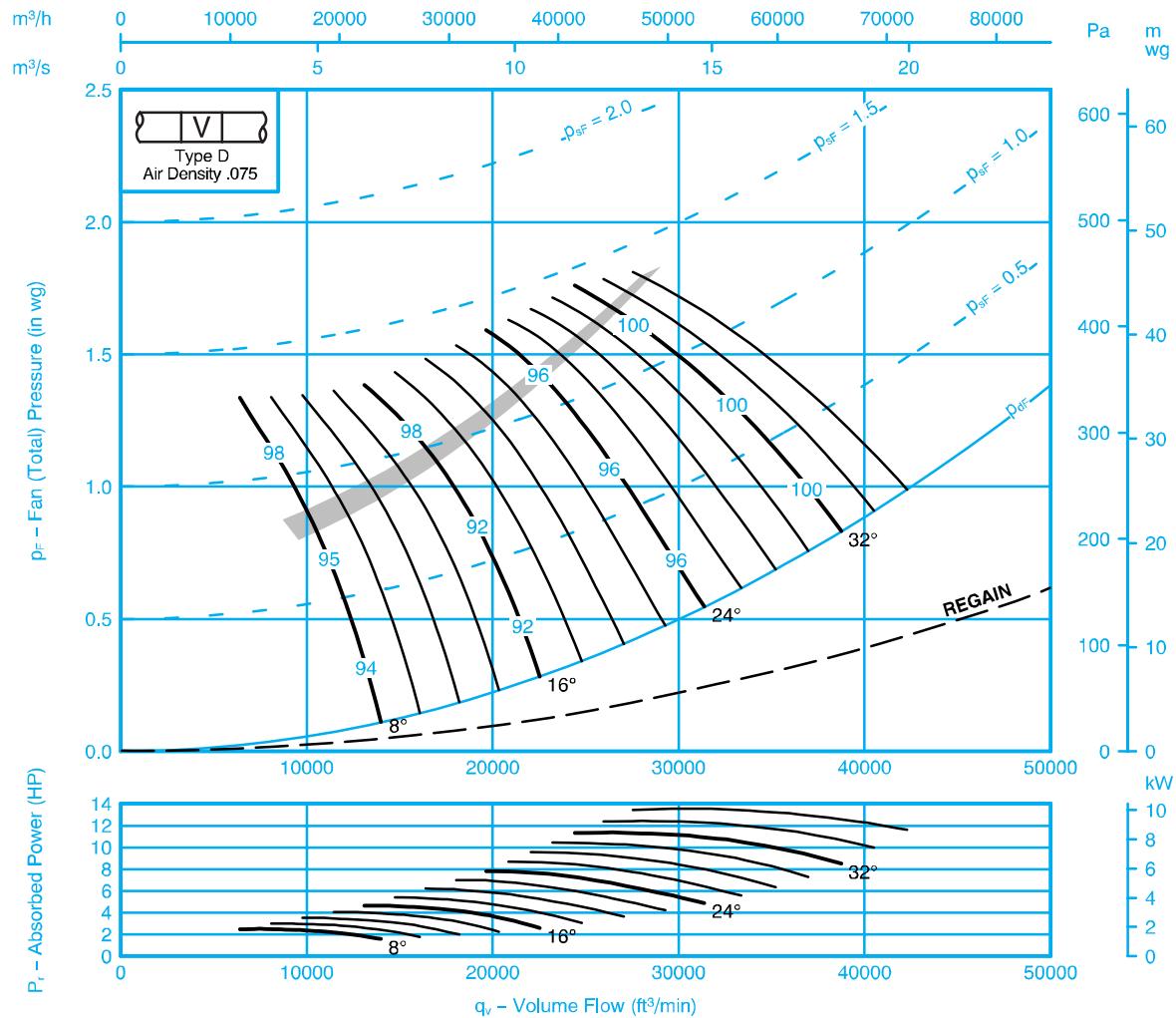
1120 mm 875 RPM

9 Blades 60 Hz



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							
	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							
	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



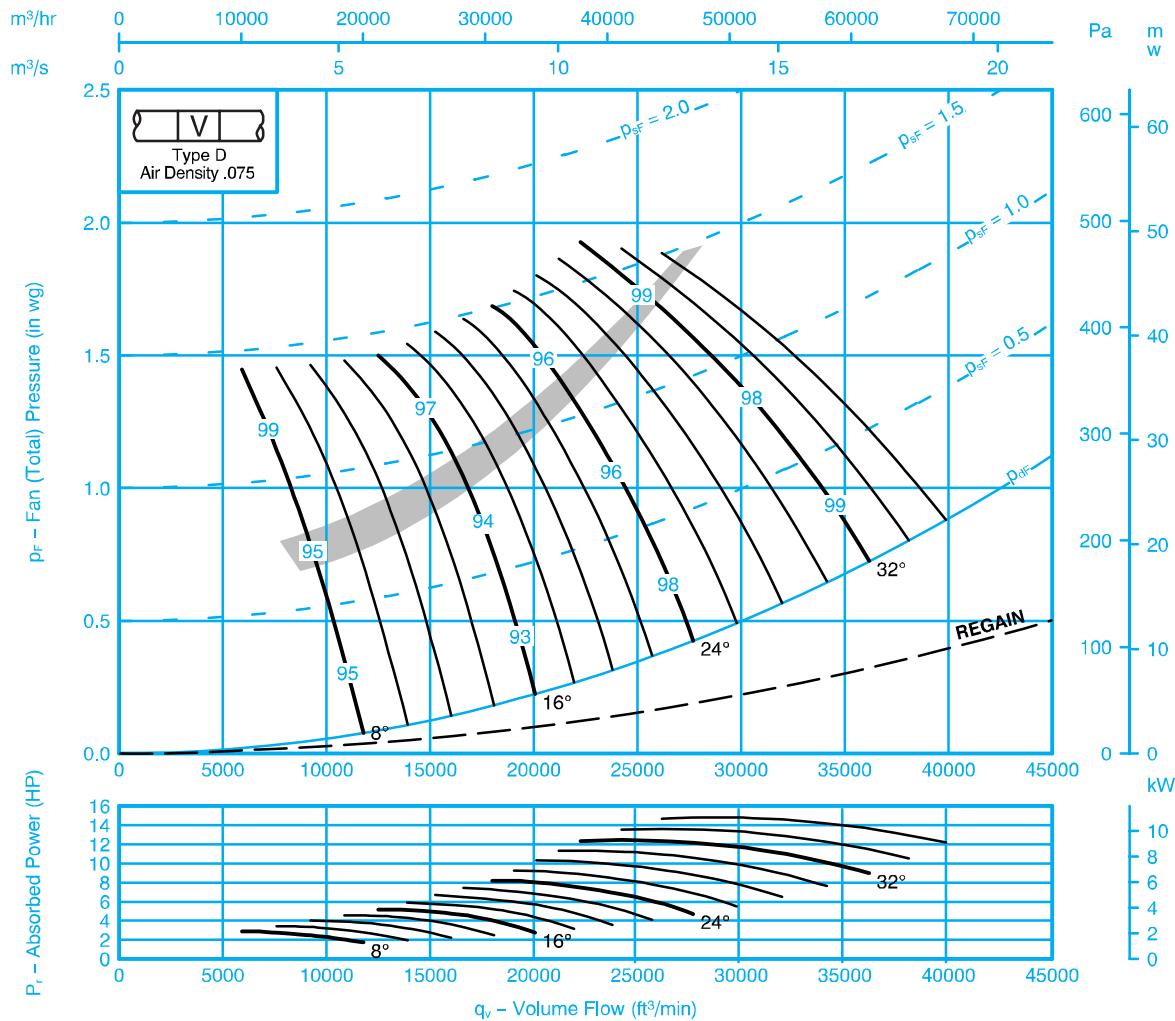
# JM AEROFOIL

Fan Code: 112JM/50/8/12/  
1120 mm 875 RPM  
12 Blades 60 Hz



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°	-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

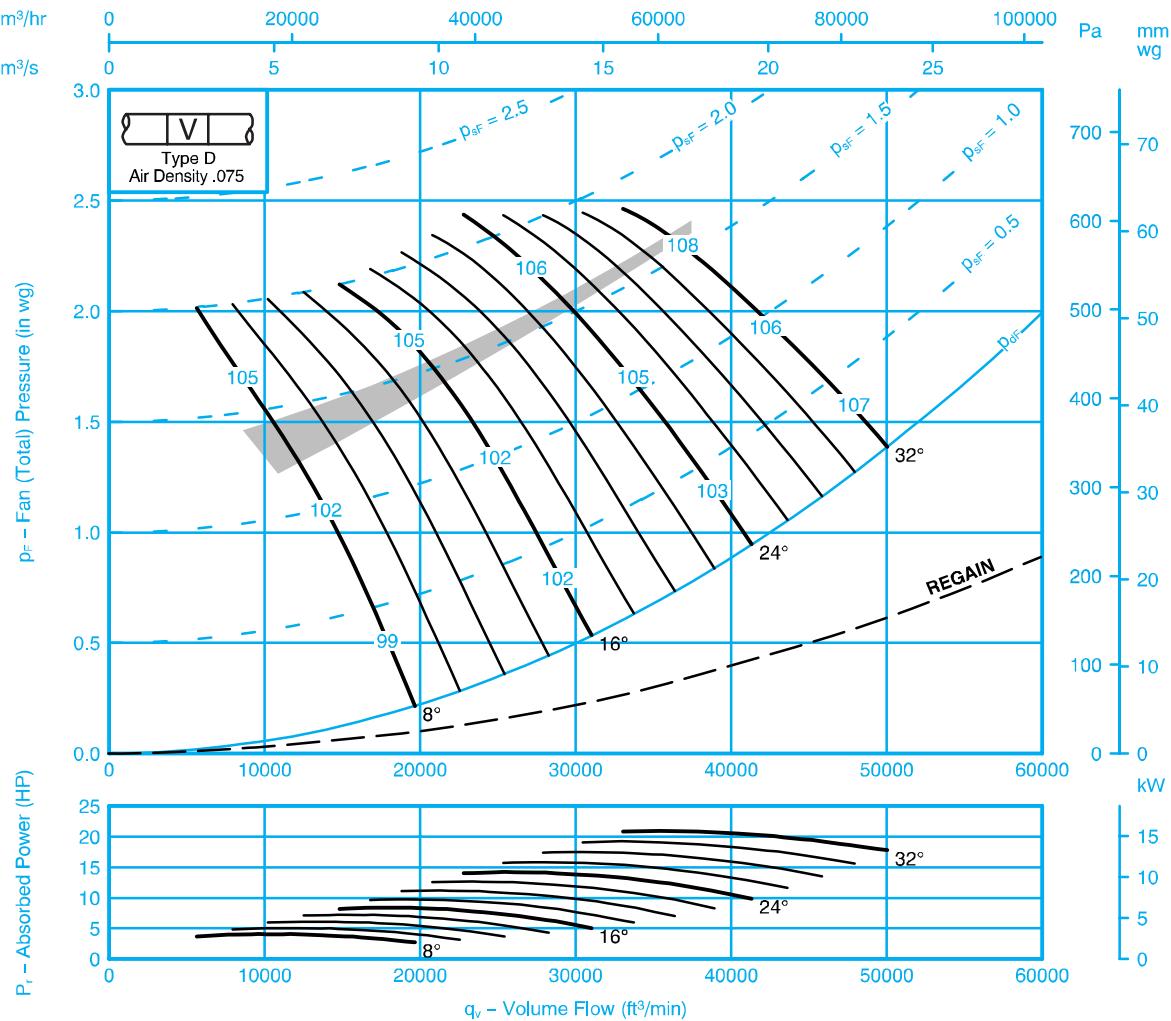
Fan Code: 112JM/40/6/6/...  
**1120 mm 1170 RPM**  
**6 Blades 60 Hz**



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°	-11	-11	-6	-4	-8	-16	-21	-28
	-8	-8	-8	-6	-7	-11	-16	-23
16°	-6	-9	-8	-7	-9	-13	-18	-25
	-5	-6	-7	-10	-11	-14	-17	-24
24-32°	-5	-8	-7	-9	-10	-14	-17	-21
	-5	-7	-7	-10	-11	-14	-18	-22

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

SK11508

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

C-100

Bulletin JMA60-05 July 2005



# JM AEROFOIL

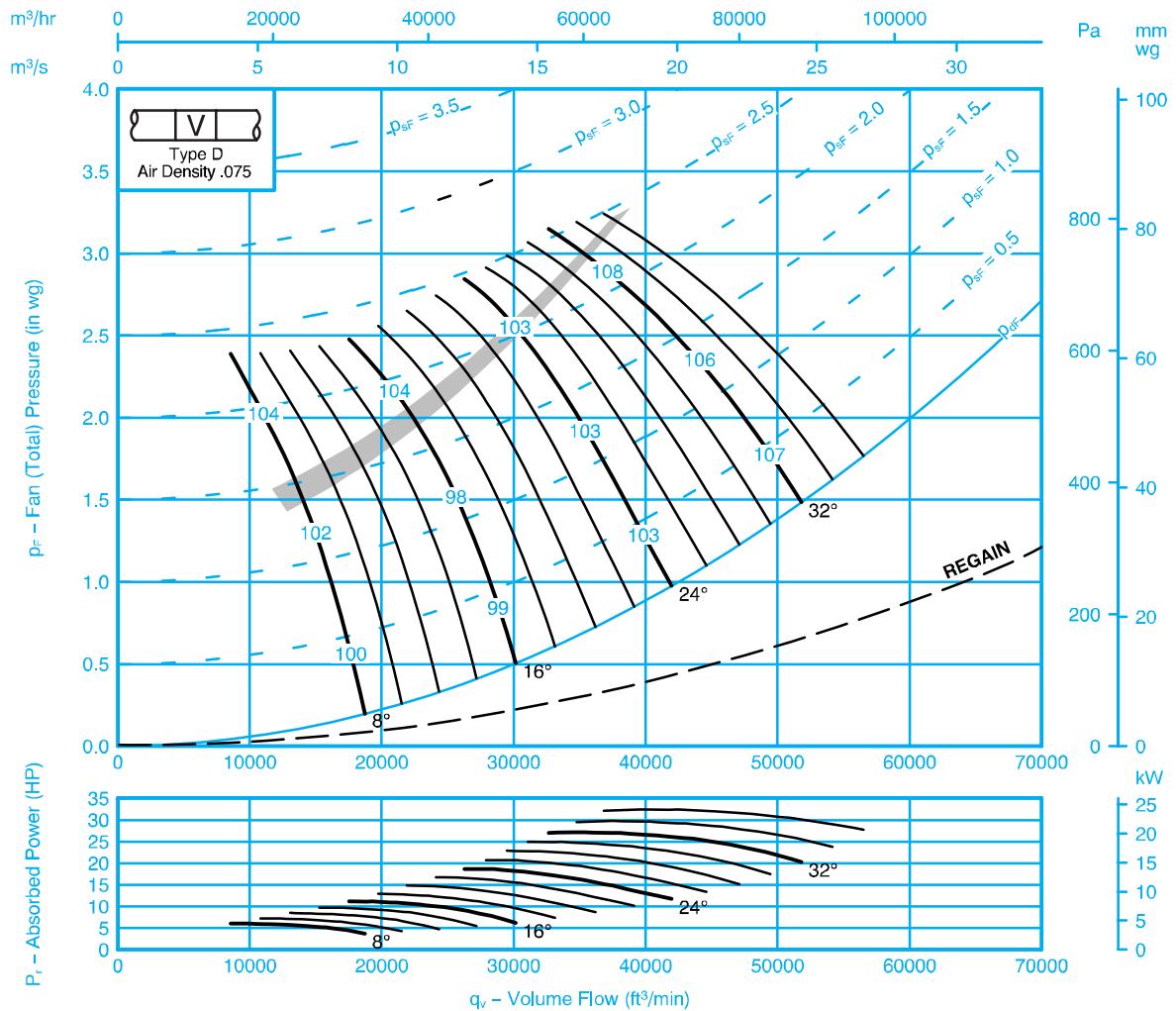
Fan Code: 112JM/40/6/9/...  
**1120 mm 1170 RPM**  
**9 Blades 60 Hz**



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.

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°	-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							
	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

C-101

Bulletin JMA60-05 July 2005



# JM AEROFOIL

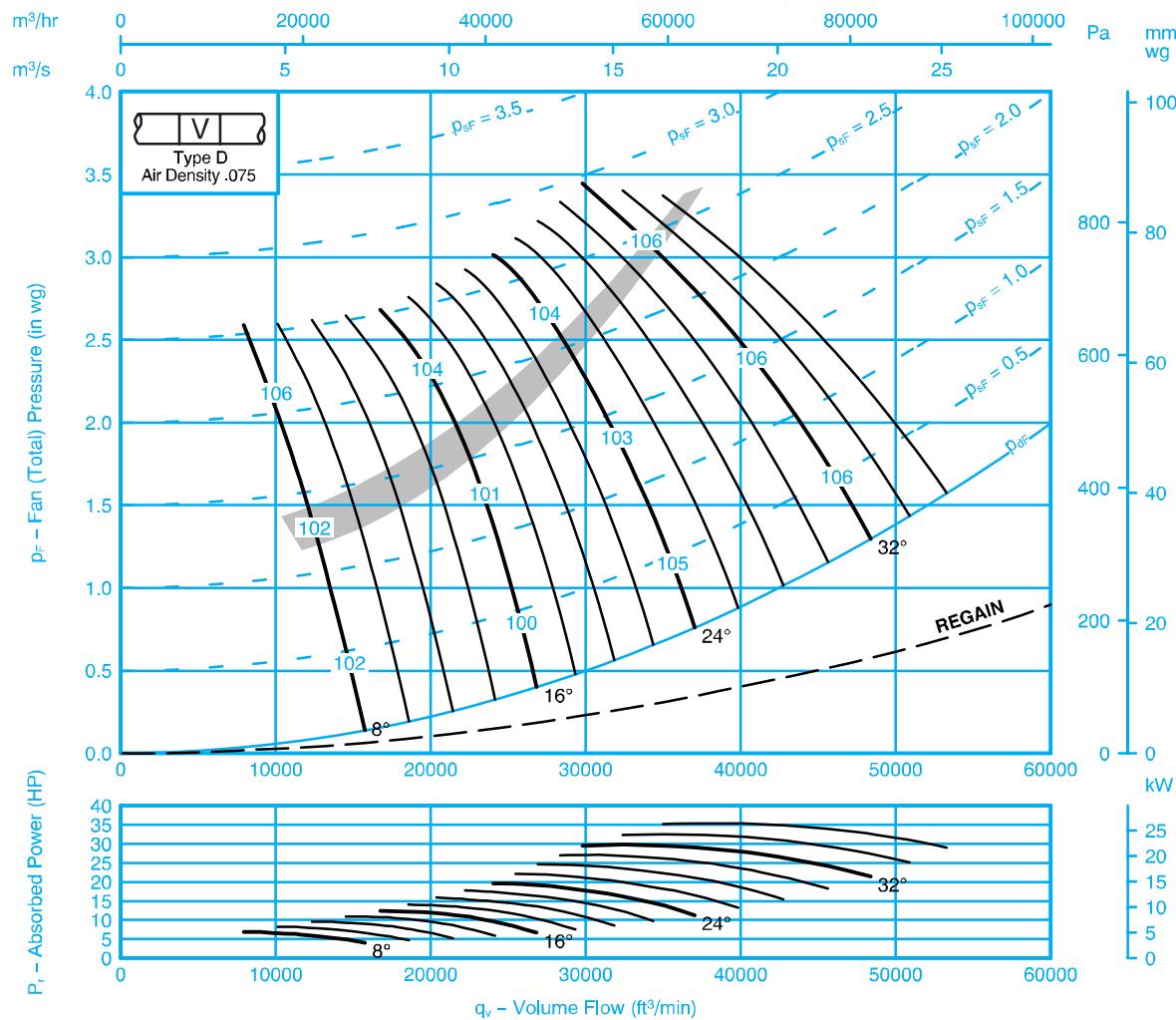
**Fan Code: 112JM/50/6/12/...**  
**1120 mm 1170 RPM**  
**12 Blades 60 Hz**

American  
Fan Company

**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	-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

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Bulletin JMA60-05 July 2005



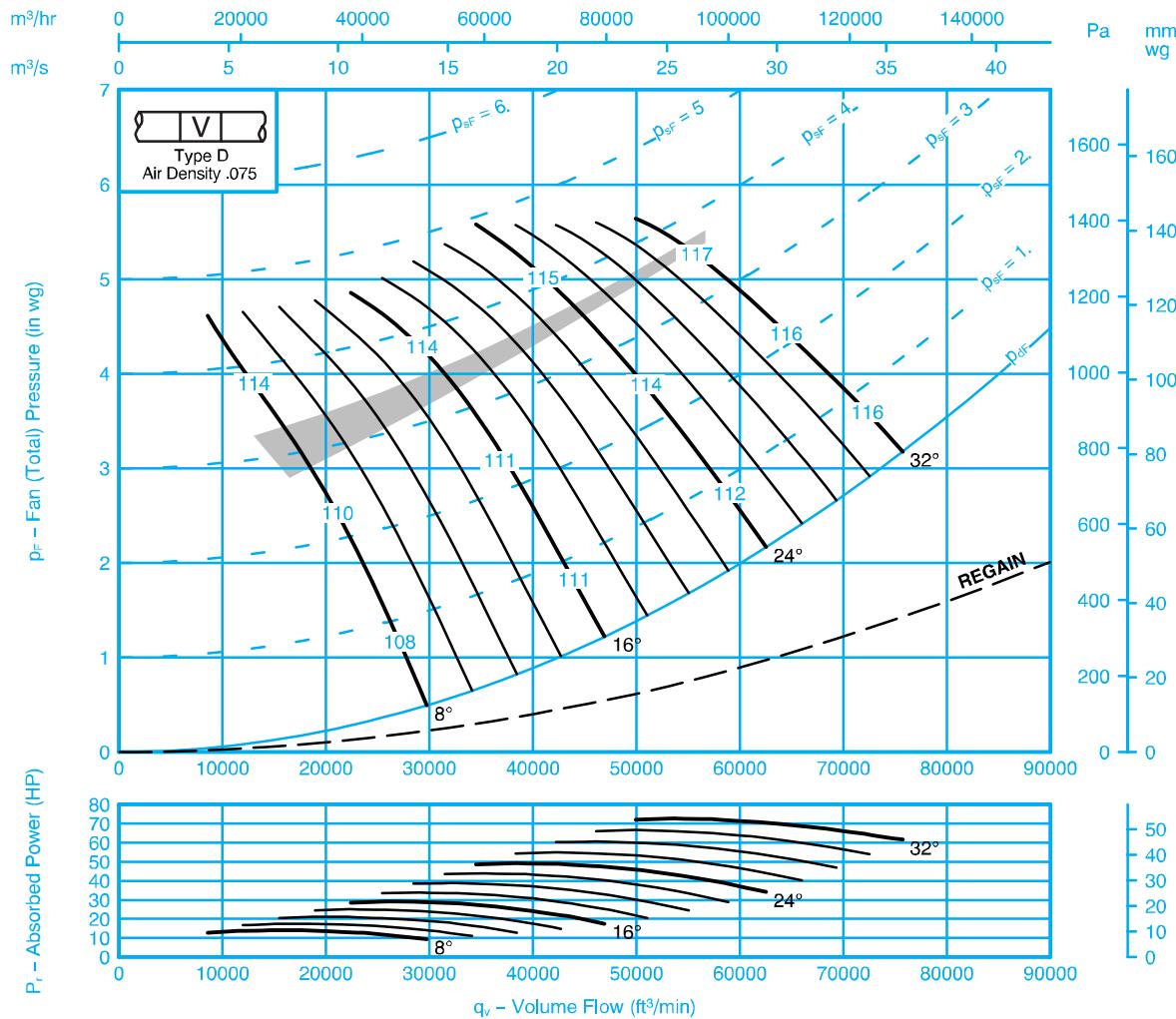
# JM AEROFOIL

Fan Code: 112JM/40/4/6/...  
**1120 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.

Pitch Angle	Inlet Levels							
	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

Pitch Angle	Outlet Levels							
	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	-10	-11	-15	-18
	-4	-4	-8	-8	-11	-12	-16	-19

SK11511

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

C-103

Bulletin JMA60-05 July 2005



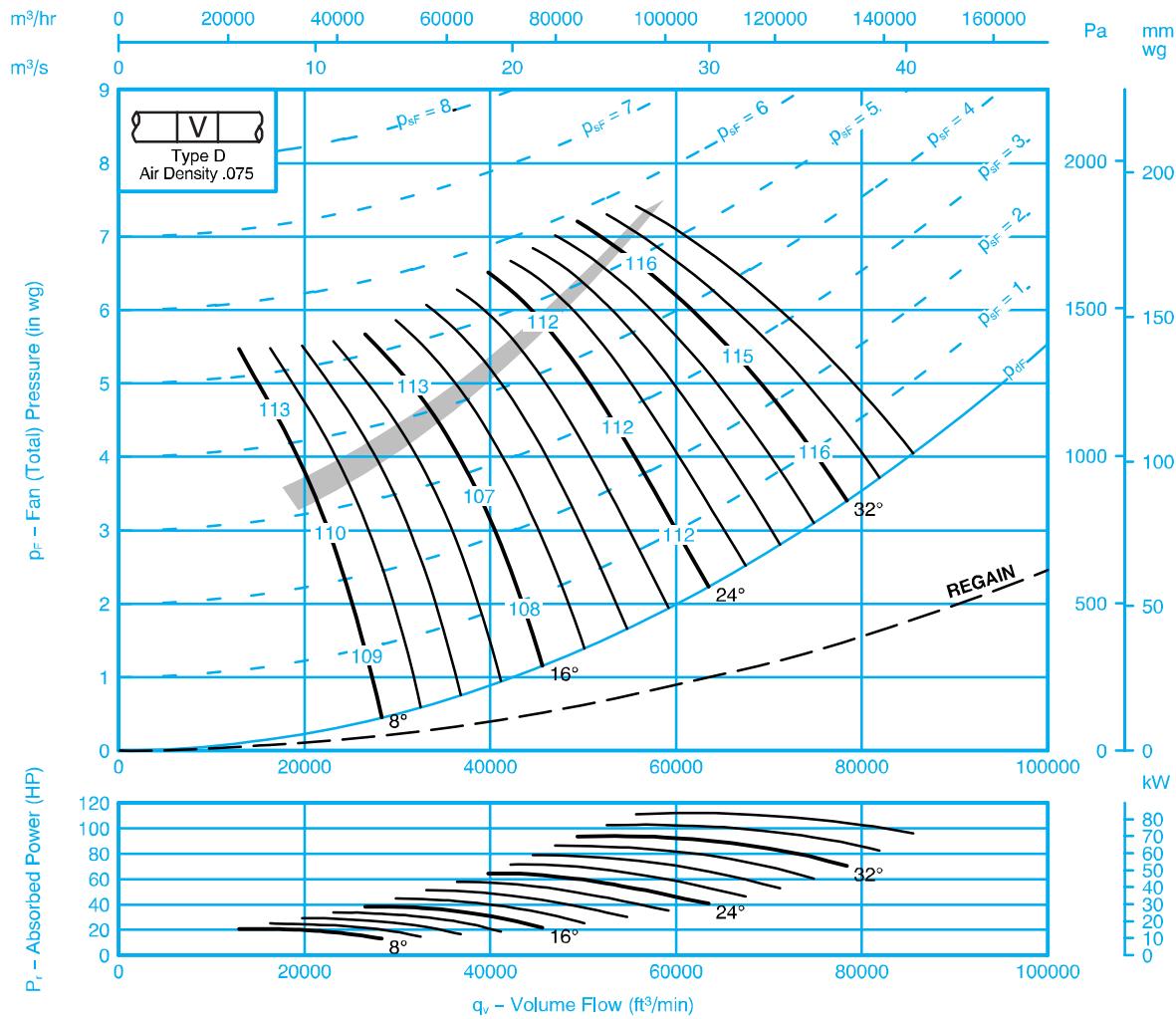
# JM AEROFOIL

Fan Code: 112JM/40/4/9/...  
**1120 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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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°	-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

Pitch Angle	Outlet Levels							
	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

C-104

Bulletin JMA60-05 July 2005



# JM AEROFOIL

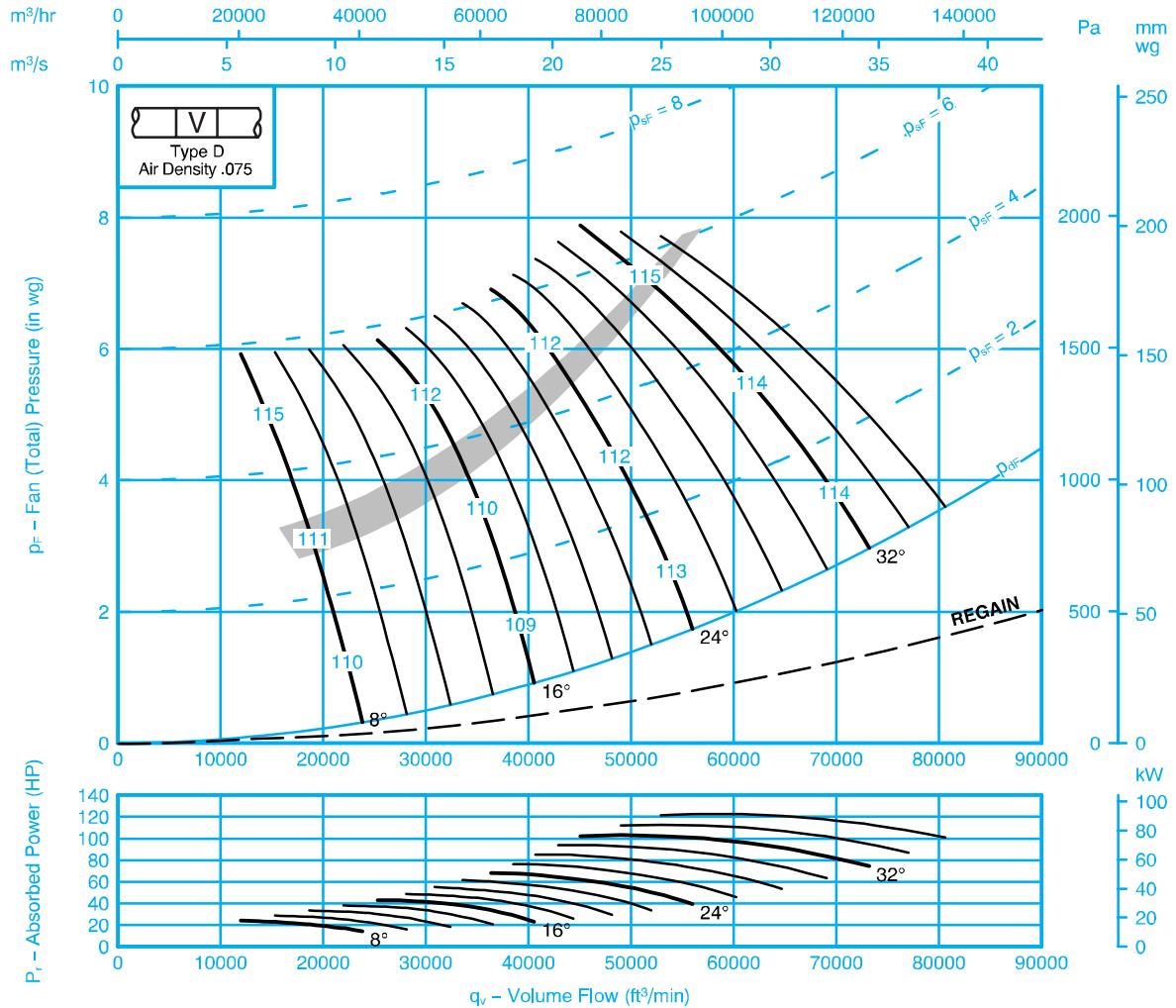
Fan Code: 112JM/50/4/12/  
1120 mm 1770 RPM  
12 Blades 60 Hz



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.

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°	-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							
	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

C-105

Bulletin JMA60-05 July 2005



# JM AEROFOIL

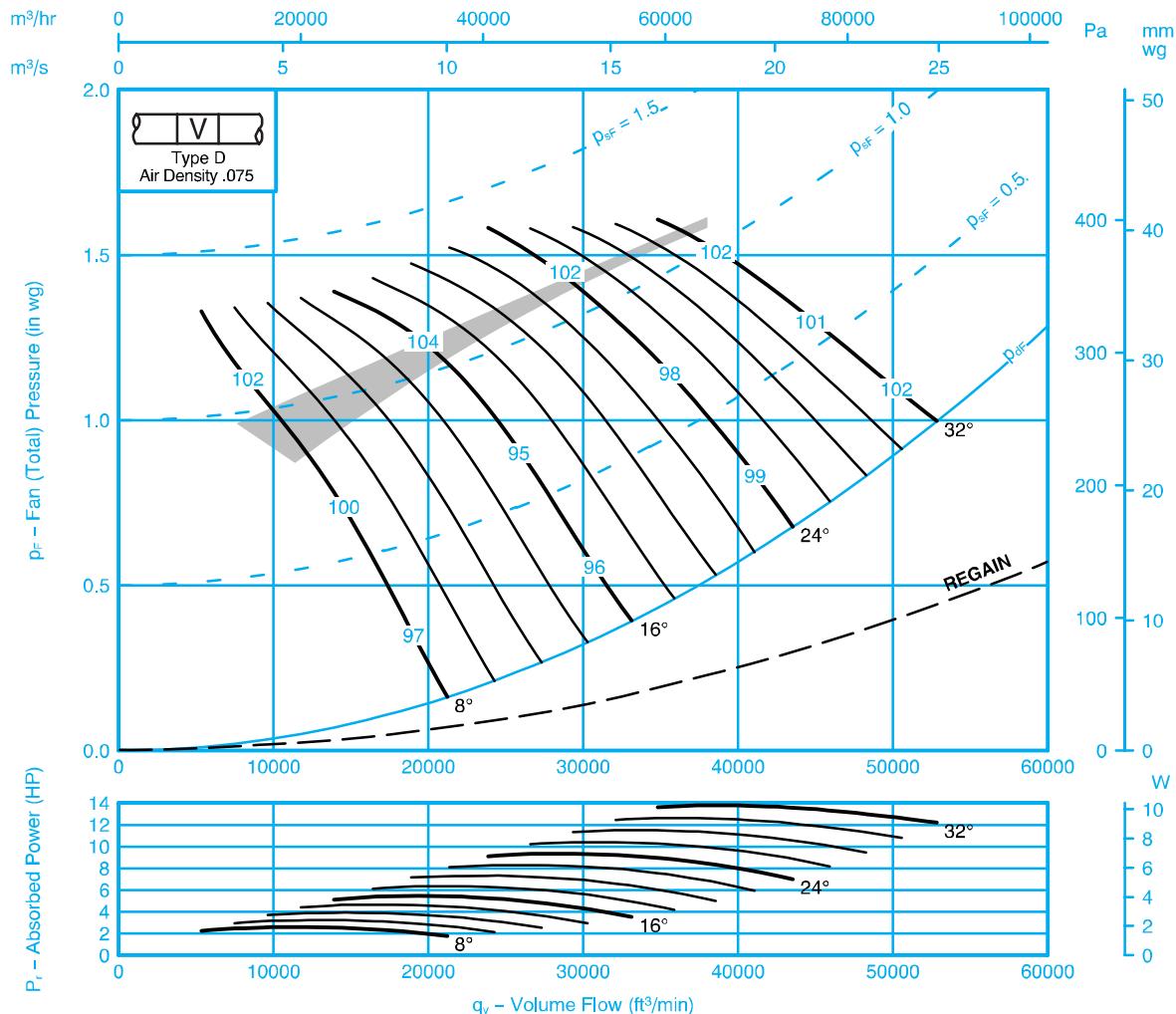
Fan Code: 125JM/40/8/6/...  
**1250 mm 875 RPM**  
**6 Blades 60 Hz**



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°	-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

Pitch Angle	Outlet Levels							
	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



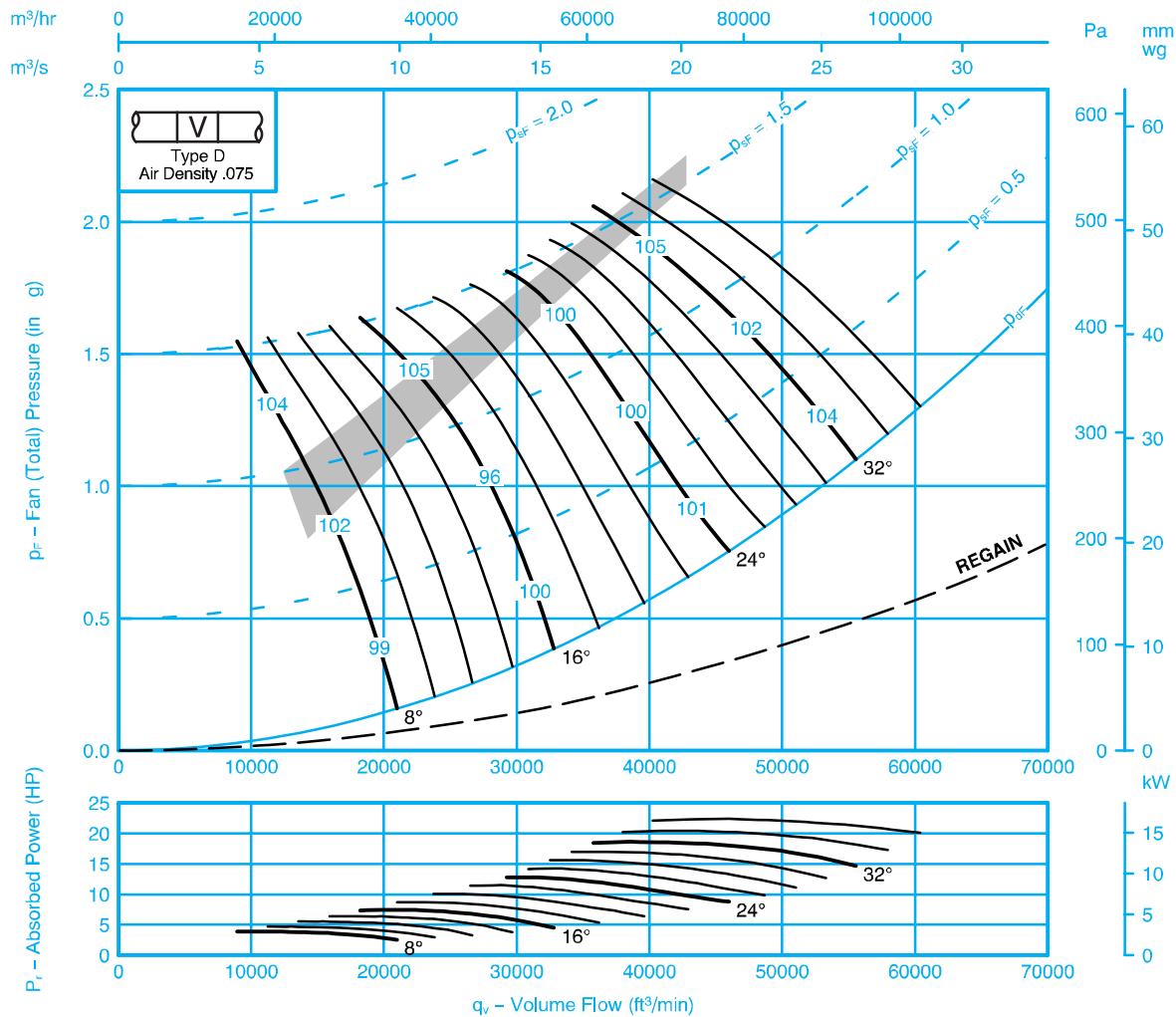
# JM AEROFOIL

Fan Code: 125JM/40/8/9/...  
**1250 mm 875 RPM**  
**9 Blades 60 Hz**



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°	-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

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Bulletin JMA60-05 July 2005



# JM AEROFOIL

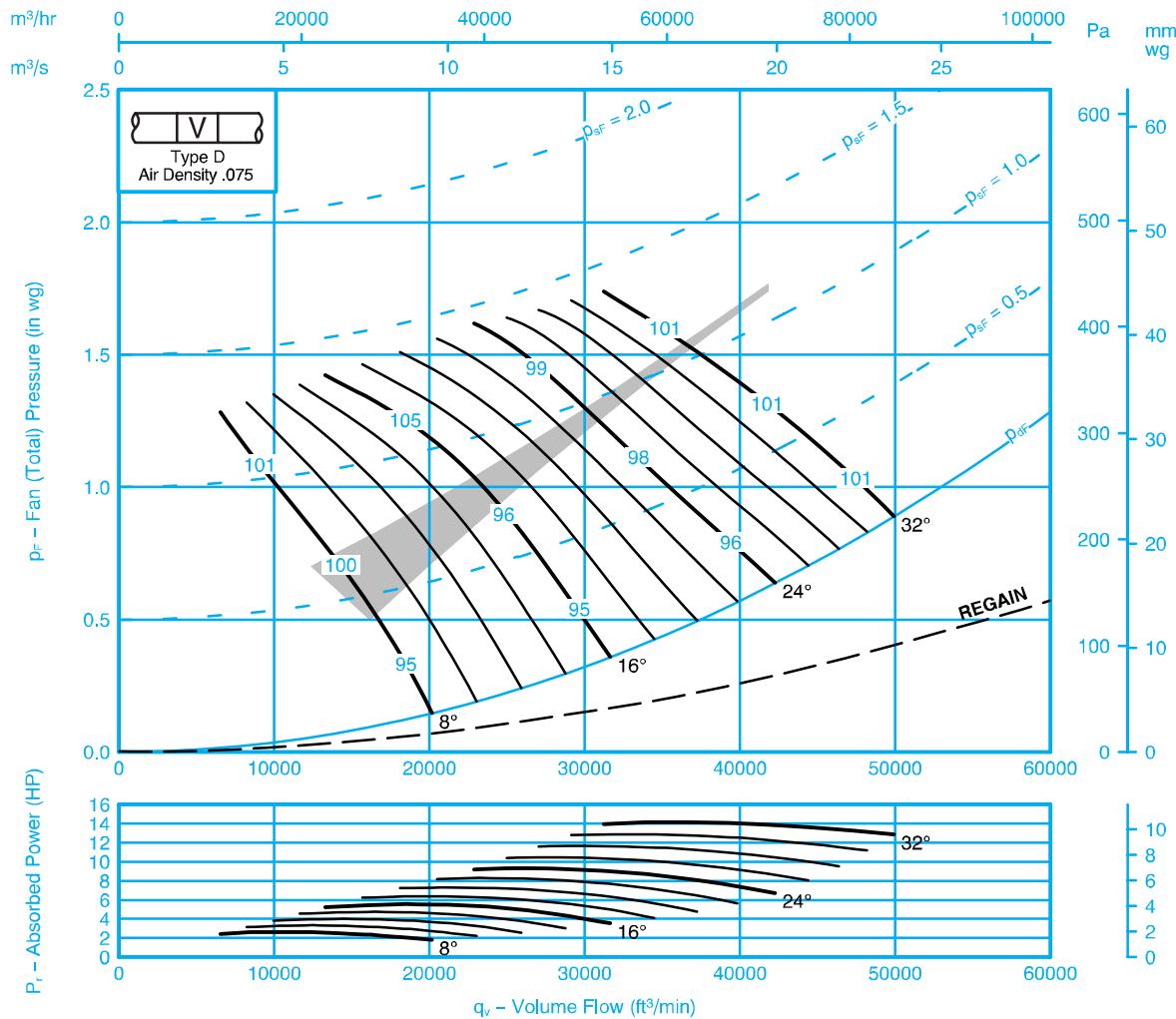
Fan Code: 125JM/50/8/6/...  
**1250 mm 875 RPM**  
**6 Blades 60 Hz**



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.

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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	-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

Pitch Angle	Outlet Levels							
	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	-18
	-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	

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Bulletin JMA60-05 July 2005



# JM AEROFOIL

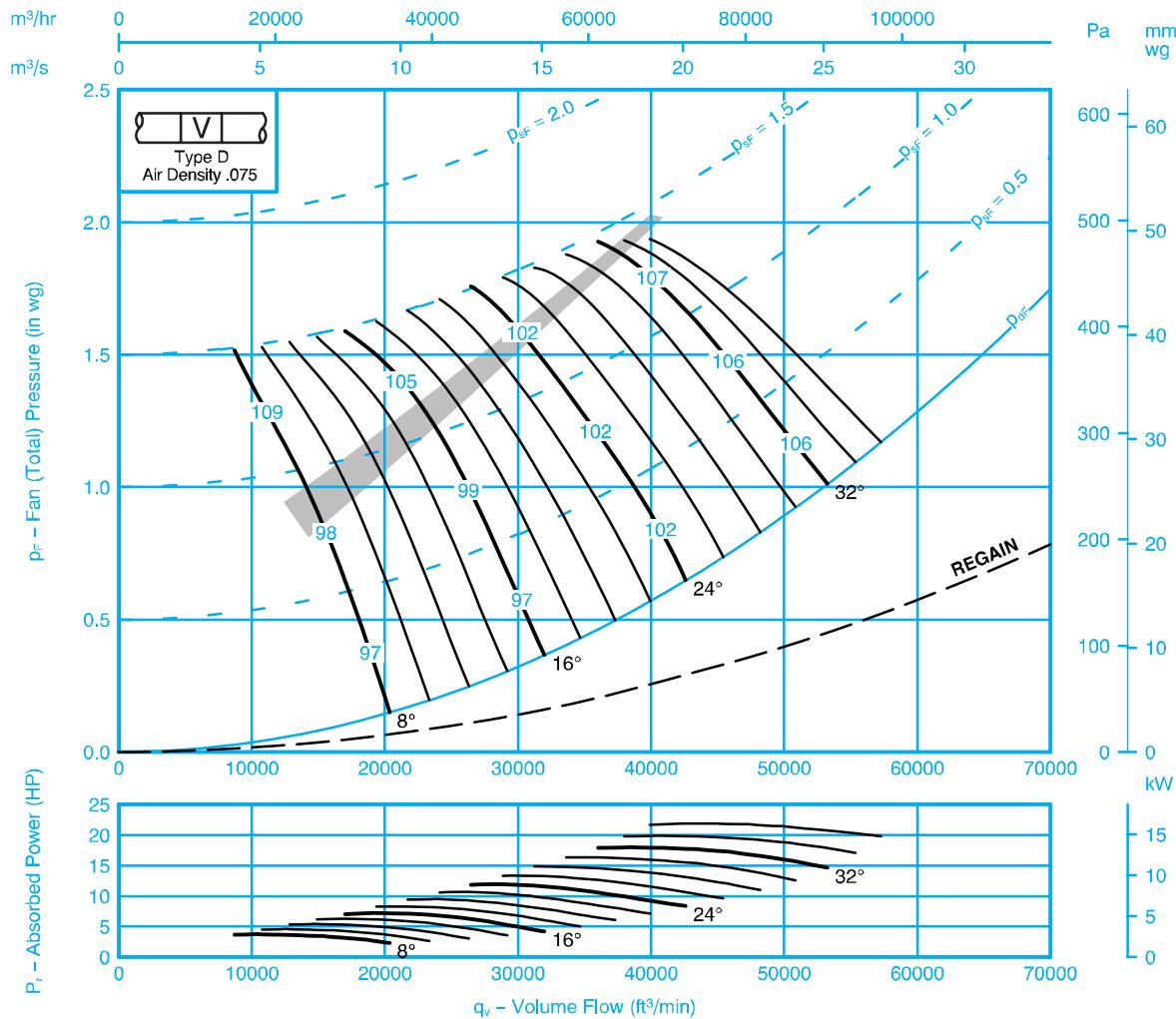
Fan Code: 125JM/50/8/9/...  
**1250 mm 875 RPM**  
**9 Blades 60 Hz**



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°	-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

Pitch Angle	Outlet Levels							
	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

C-109

Bulletin JMA60-05 July 2005



# JM AEROFOIL

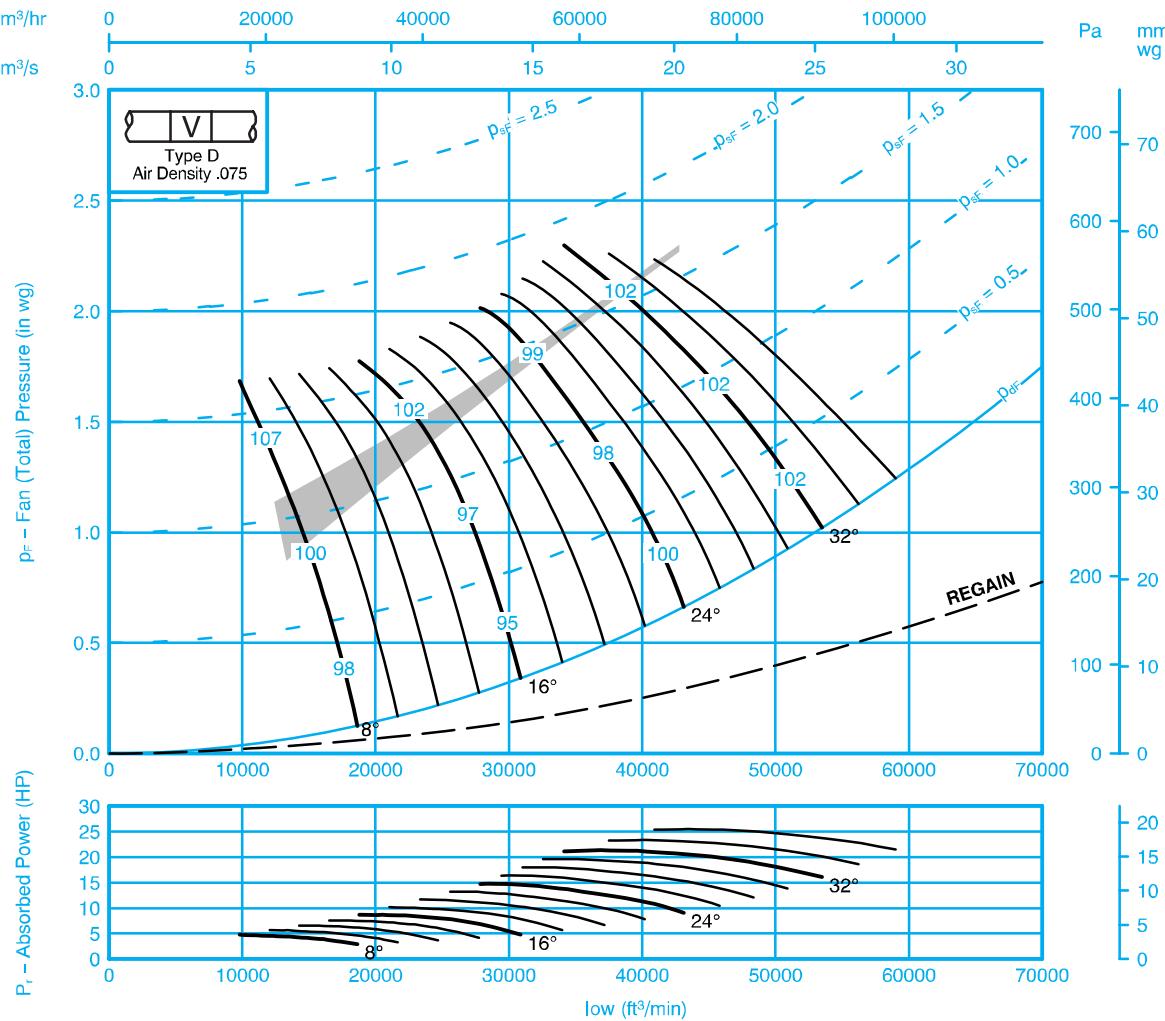
Fan Code: 125JM/50/8/12/...  
**1250 mm 875 RPM**  
**12 Blades 60 Hz**



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.

Pitch Angle	Inlet Levels							
	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

Pitch Angle	Outlet Levels							
	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

C-110

Bulletin JMA60-05 July 2005



# JM AEROFOIL

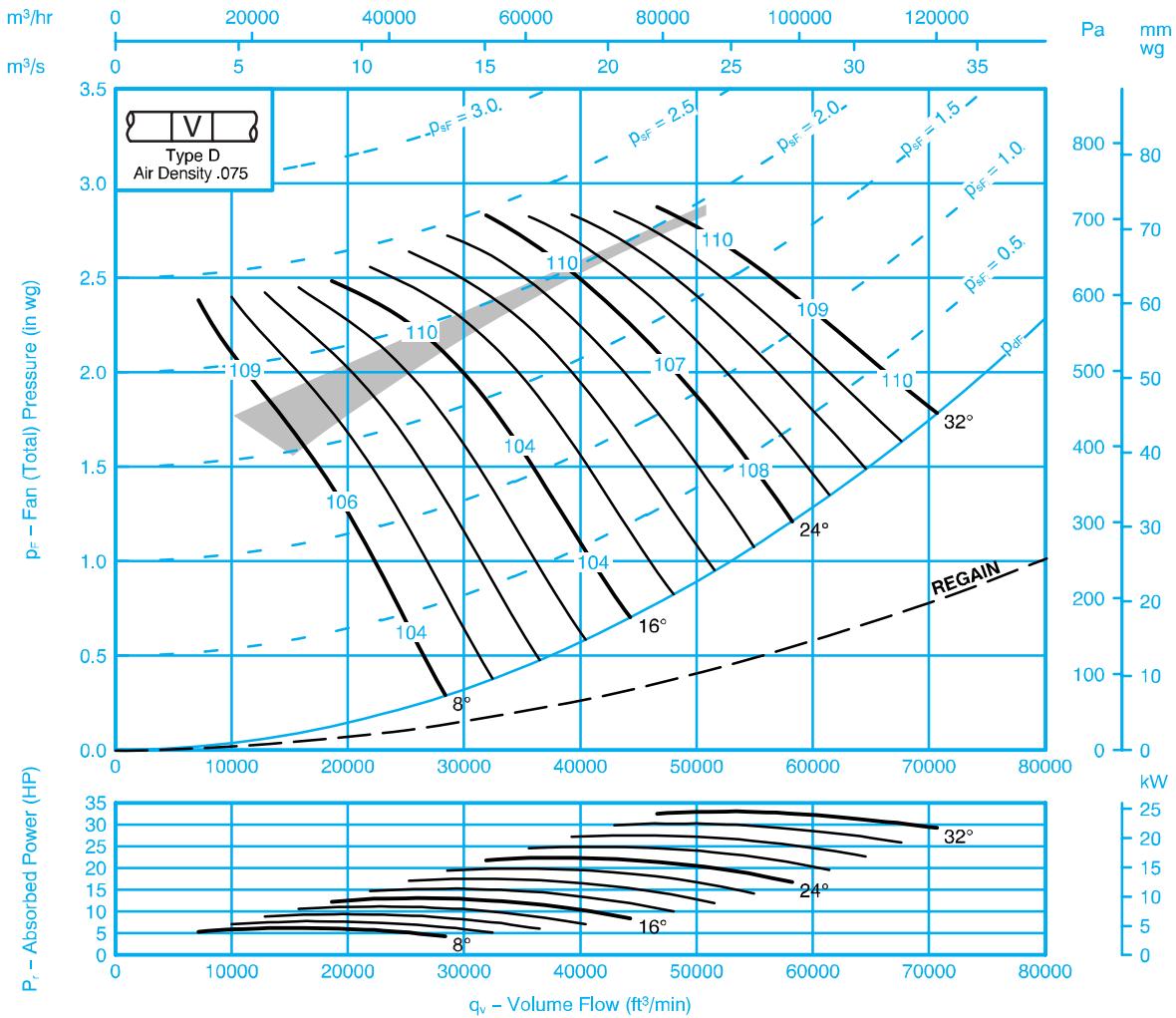
Fan Code: 125JM/40/6/6/...  
**1250 mm 1170 RPM**  
**6 Blades 60 Hz**



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.

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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	-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

Pitch Angle	Outlet Levels							
	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	-9	-10	-13	-17
	-6	-5	-5	-9	-7	-13	-17	-18

SK11519

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

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Bulletin JMA60-05 July 2005



# JM AEROFOIL

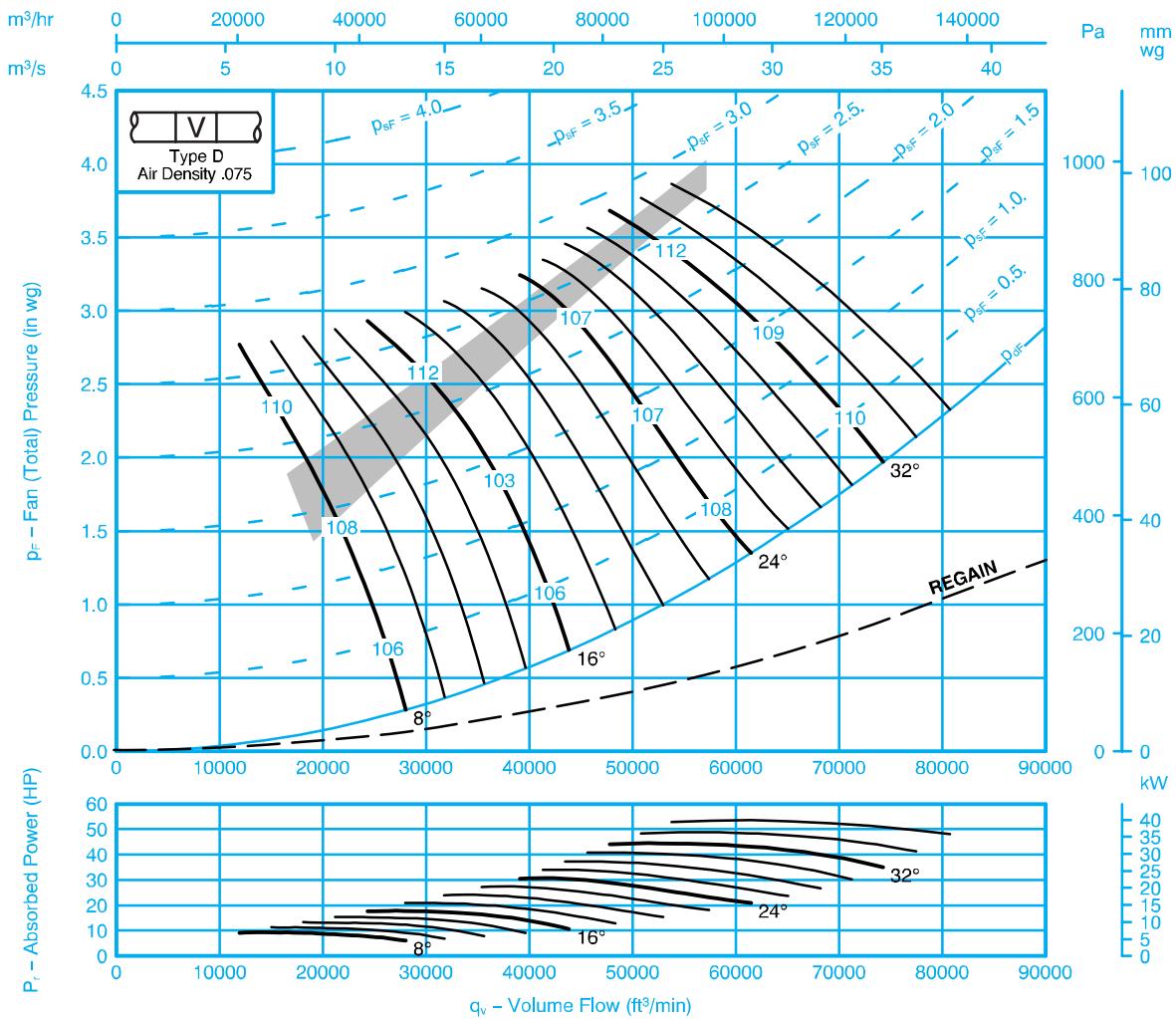
Fan Code: 125JM/40/6/9/...  
**1250 mm 1170 RPM**  
**9 Blades 60 Hz**



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.

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

C-112

Bulletin JMA60-05 July 2005



# JM AEROFOIL

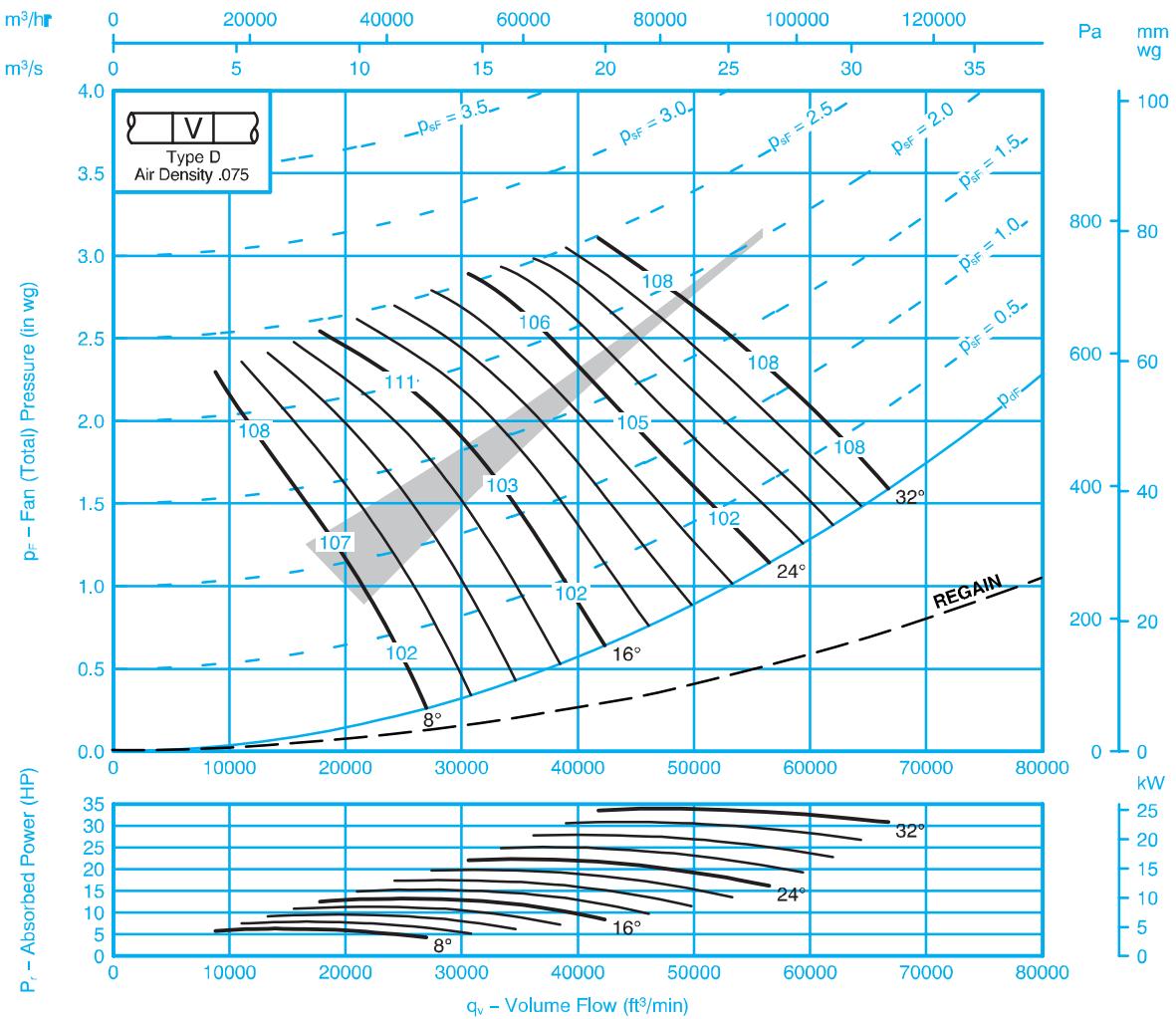
Fan Code: 125JM/50/6/6/...  
**1250 mm 1170 RPM**  
**6 Blades 60 Hz**



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							
	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

Pitch Angle	Outlet Levels							
	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
	-9	-3	-5	-9	-11	-14	-16	-20
24-32°	-5	-5	-6	-8	-11	-12	-14	-18
	-4	-4	-6	-8	-11	-12	-14	-17

SK11521

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

C-113

Bulletin JMA60-05 July 2005



# JM AEROFOIL

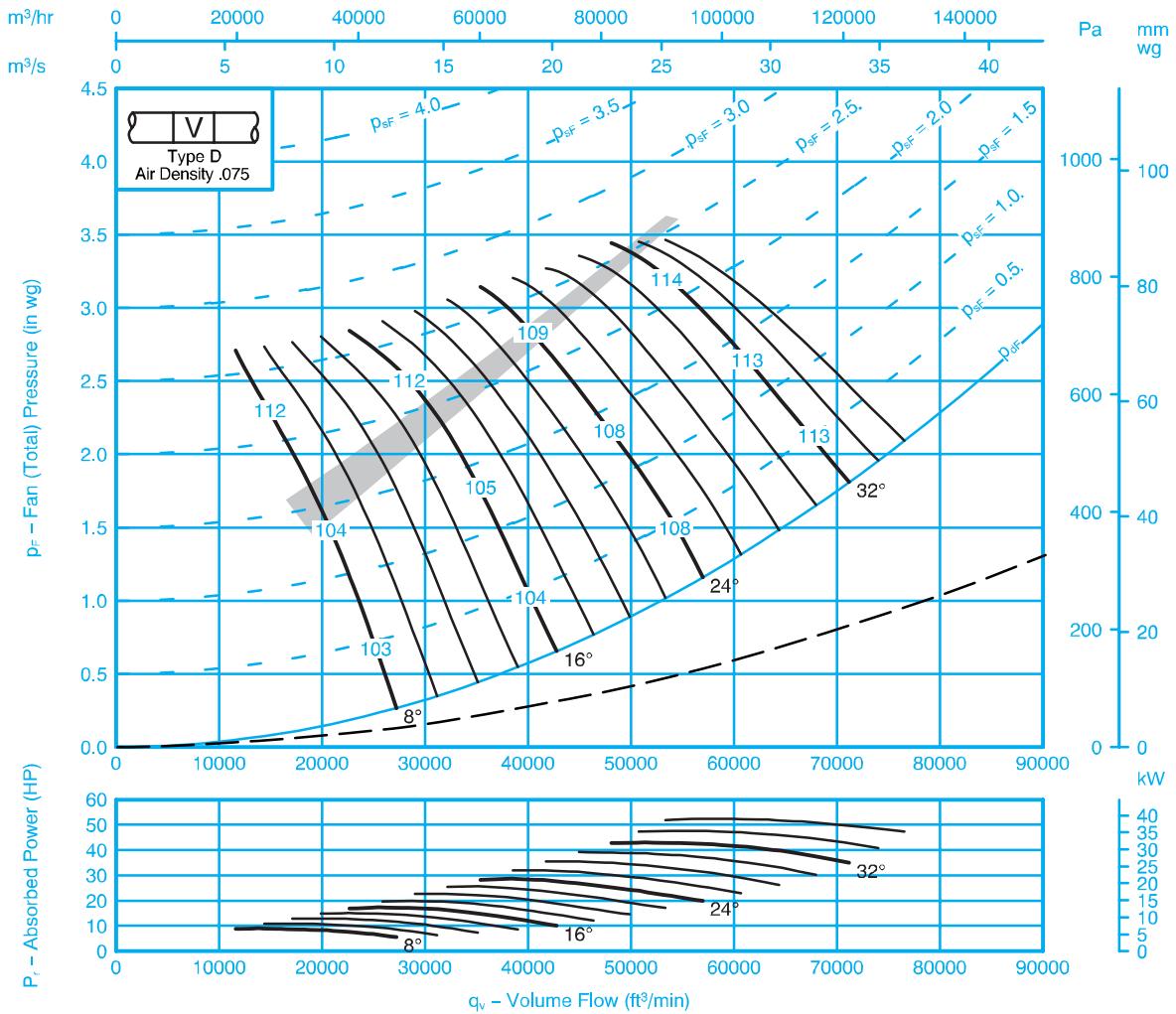
Fan Code: 125JM/50/6/9/...  
**1250 mm 1170 RPM**  
**9 Blades 60 Hz**



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.

Pitch Angle	Inlet Levels							
	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

Pitch Angle	Outlet Levels							
	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	-10	-13	-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

C-114

Bulletin JMA60-05 July 2005



# JM AEROFOIL

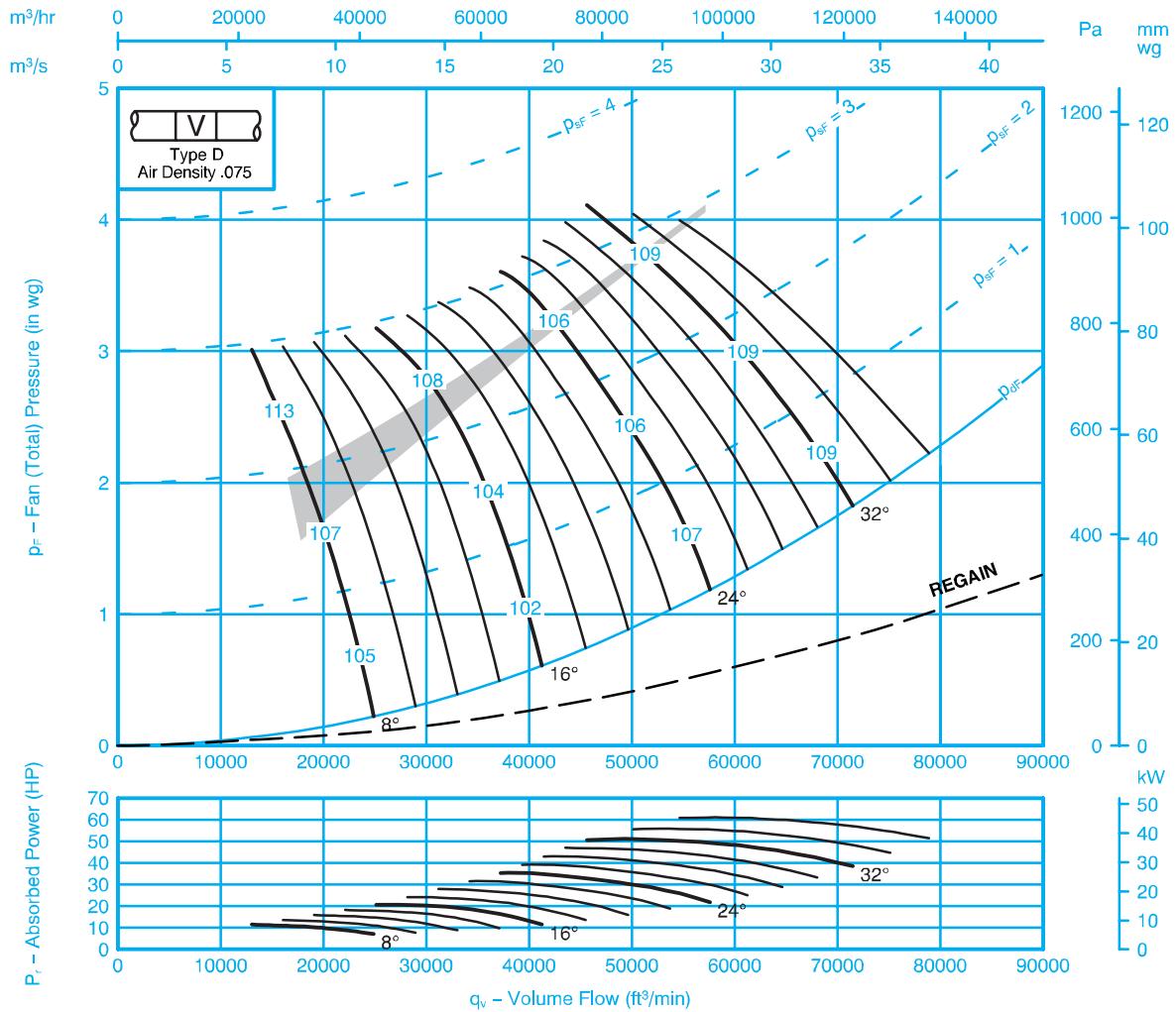
Fan Code: 125JM/50/6/12/  
1250 mm 1170 RPM  
12 Blades 60 Hz



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°	-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

C-115

Bulletin JMA60-05 July 2005



# JM AEROFOIL

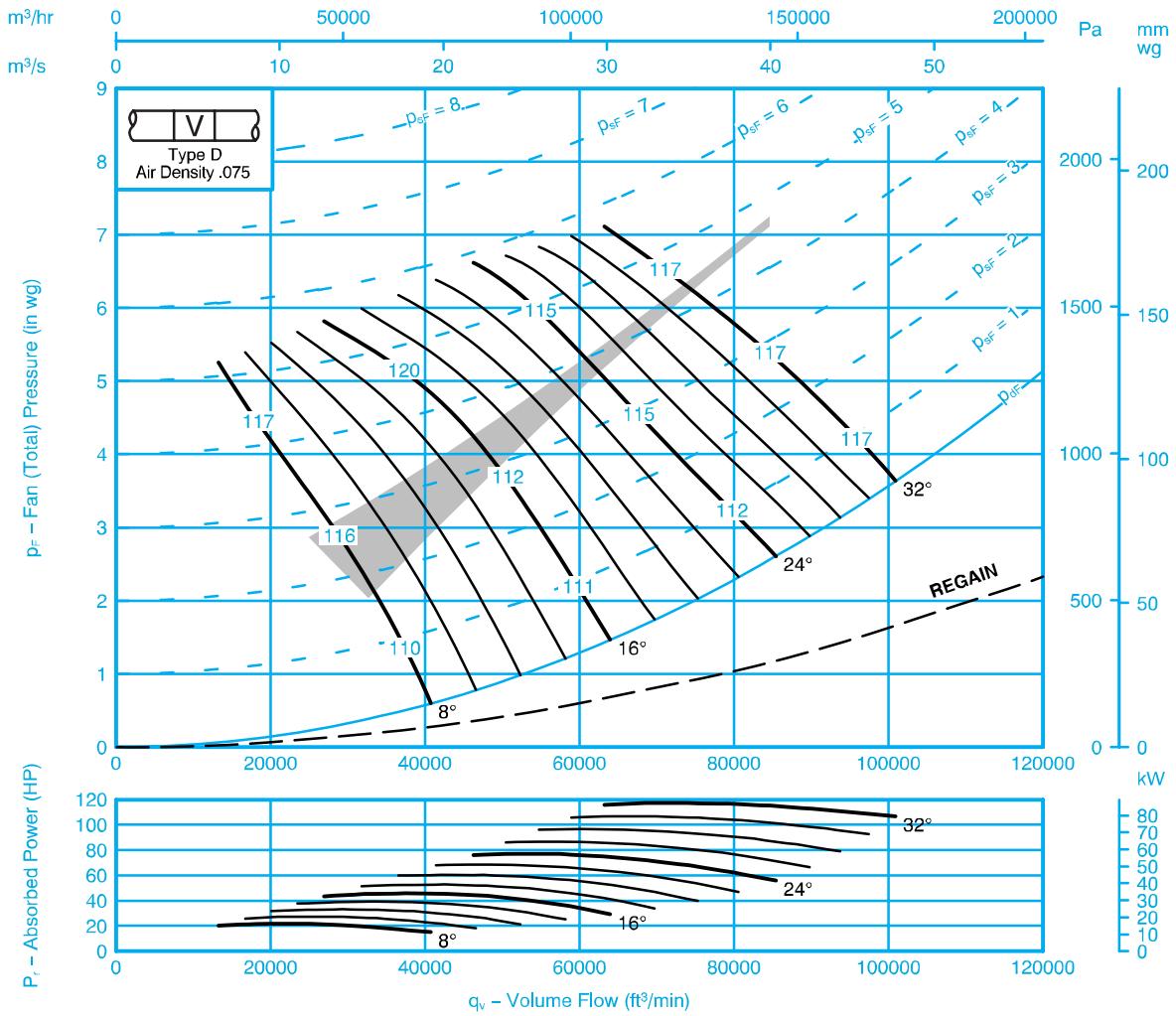
Fan Code: 125JM/50/4/6/...  
**1250 mm 1770 RPM**  
**6 Blades 60 Hz**



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°	-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

Pitch Angle	Outlet Levels							
	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

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Bulletin JMA60-05 July 2005



# JM AEROFOIL

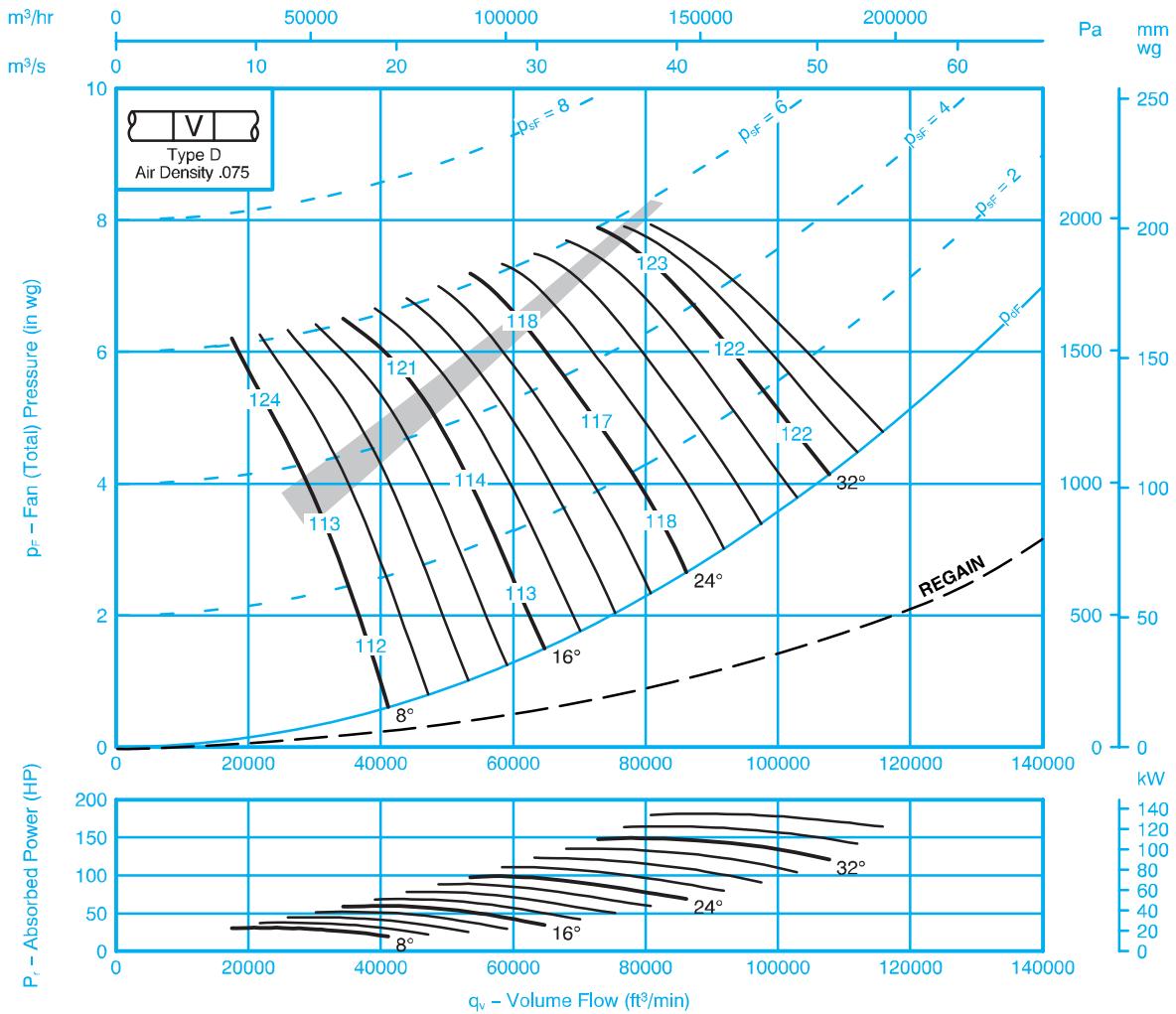
Fan Code: 125JM/50/4/9/...  
**1250 mm 1770 RPM**  
**9 Blades 60 Hz**



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°	-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

Pitch Angle	Outlet Levels							
	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	-5	-10	-16	-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

C-117

Bulletin JMA60-05 July 2005



# JM AEROFOIL

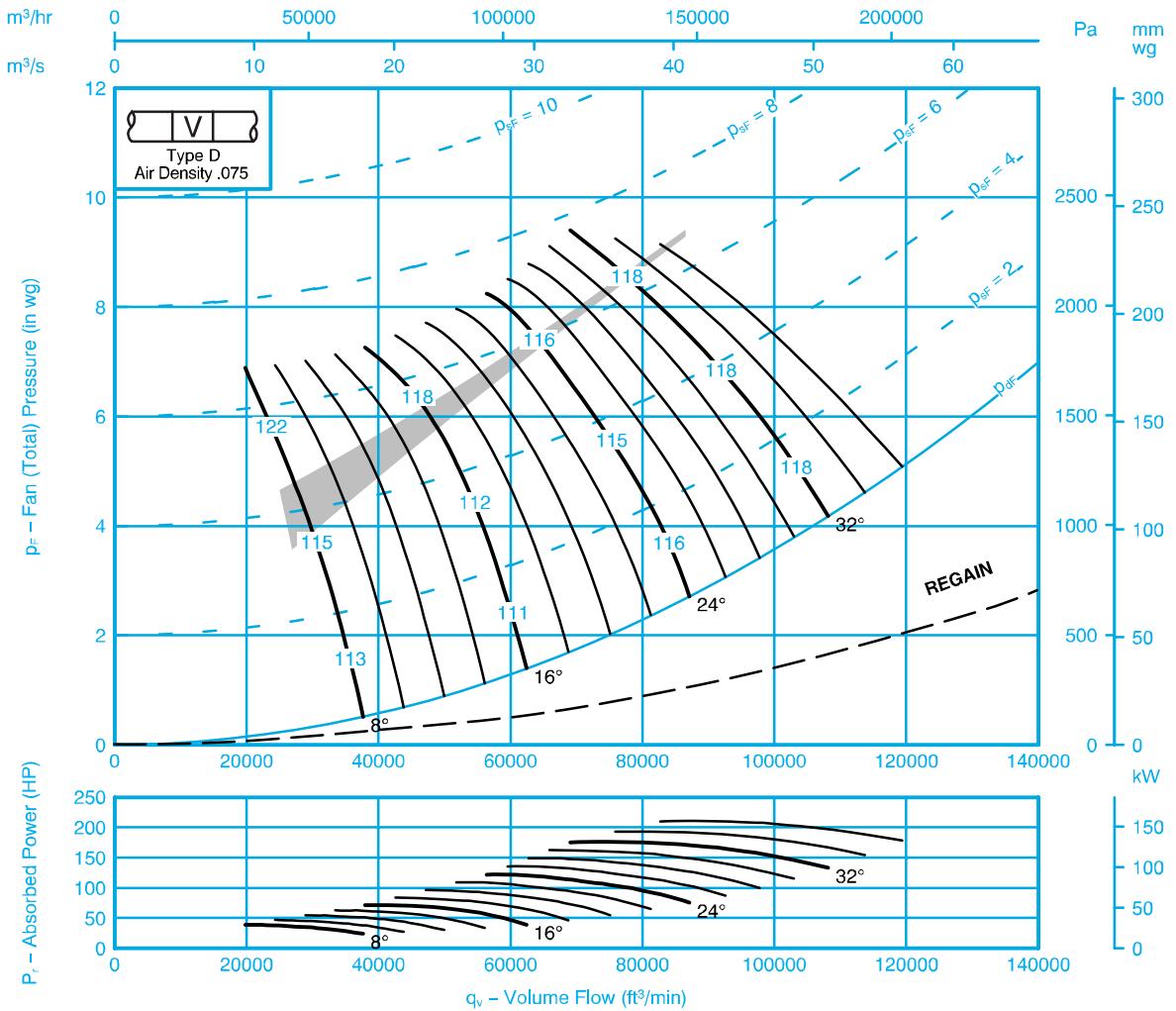
Fan Code: 125JM/50/4/12/  
1250 mm 1770 RPM  
12 Blades 60 Hz



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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°	-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

Pitch Angle	Outlet Levels							
	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	-7	-8	-8	-11	-15
	-6	-6	-4	-8	-9	-8	-11	-14

SK11526

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

C-118

Bulletin JMA60-05 July 2005



# JM AEROFOIL

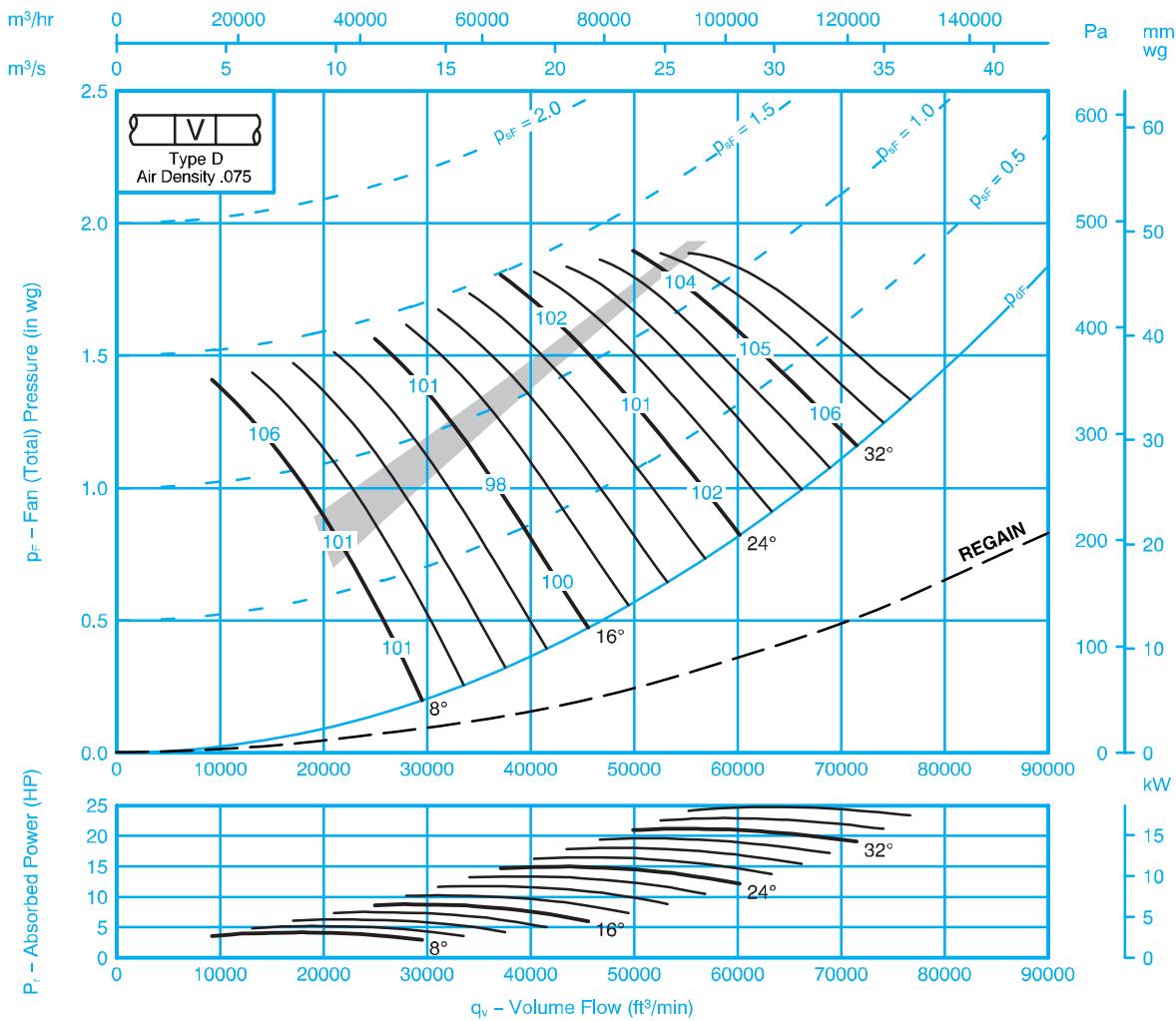
Fan Code: 140JM/40/8/6/...  
**1400 mm 875 RPM**  
**6 Blades 60 Hz**



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°	-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	-5	-8	-23
16°	-11	-9	-9	-3	-7	-11	-13	-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

C-119

Bulletin JMA60-05 July 2005



# JM AEROFOIL

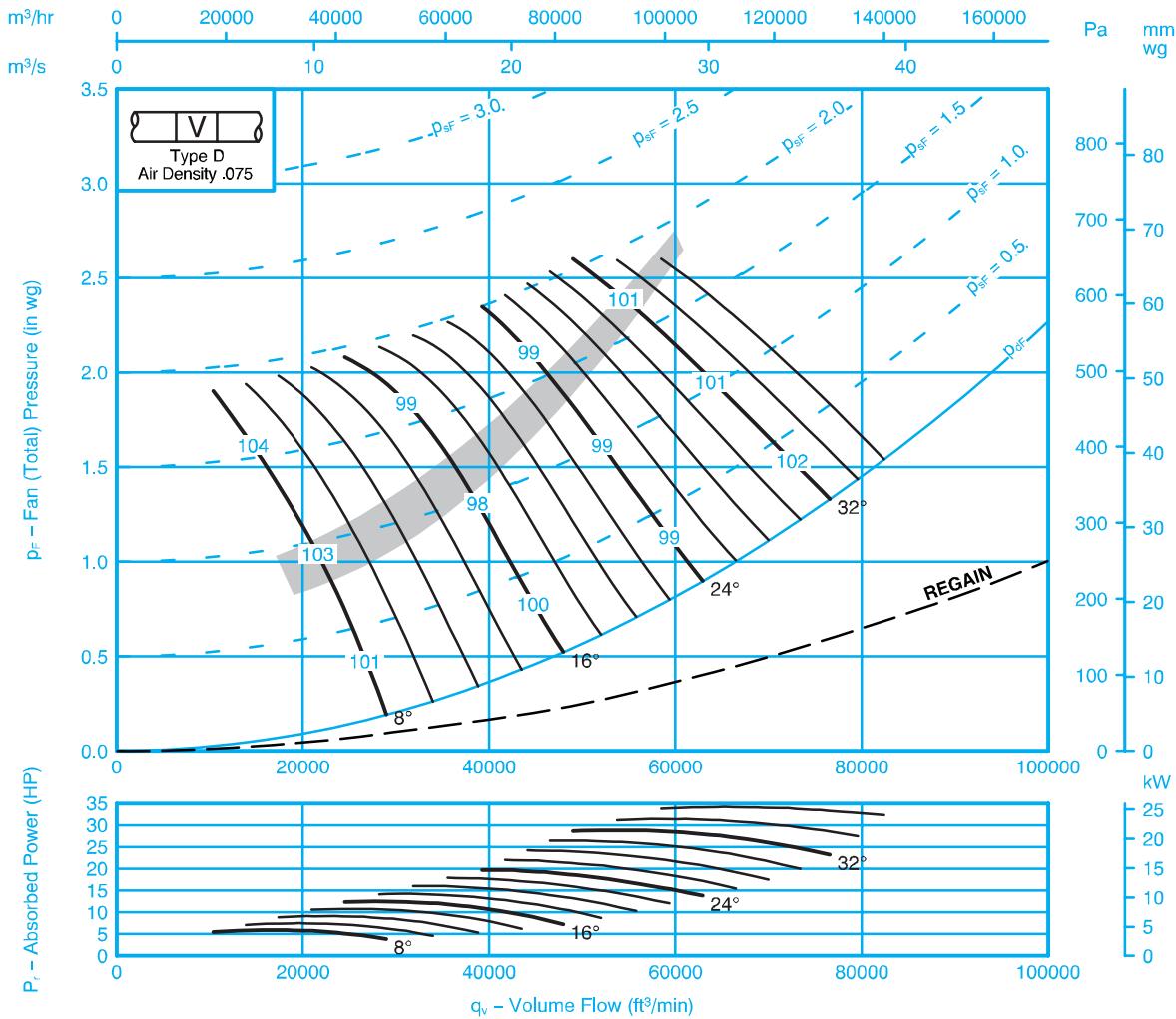
Fan Code: 140JM/40/8/9/...  
**1400 mm 875 RPM**  
**9 Blades 60 Hz**



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	-16
	-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

C-120

Bulletin JMA60-05 July 2005



# JM AEROFOIL

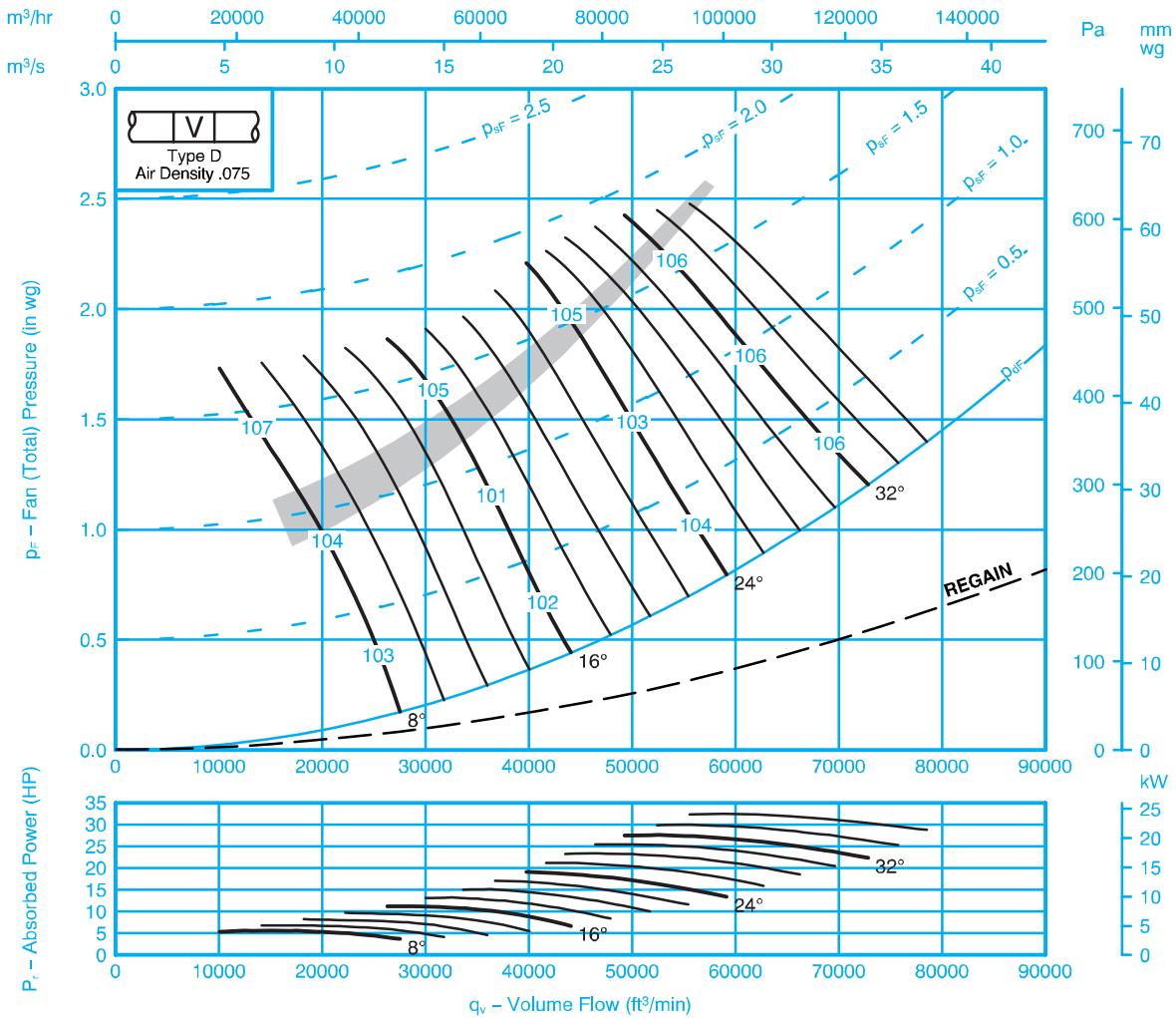
Fan Code: 140JM/50/8/9/...  
1400 mm 875 RPM  
9 Blades 60 Hz



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°	-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

Pitch Angle	Outlet Levels							
	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

C-121

Bulletin JMA60-05 July 2005



# JM AEROFOIL

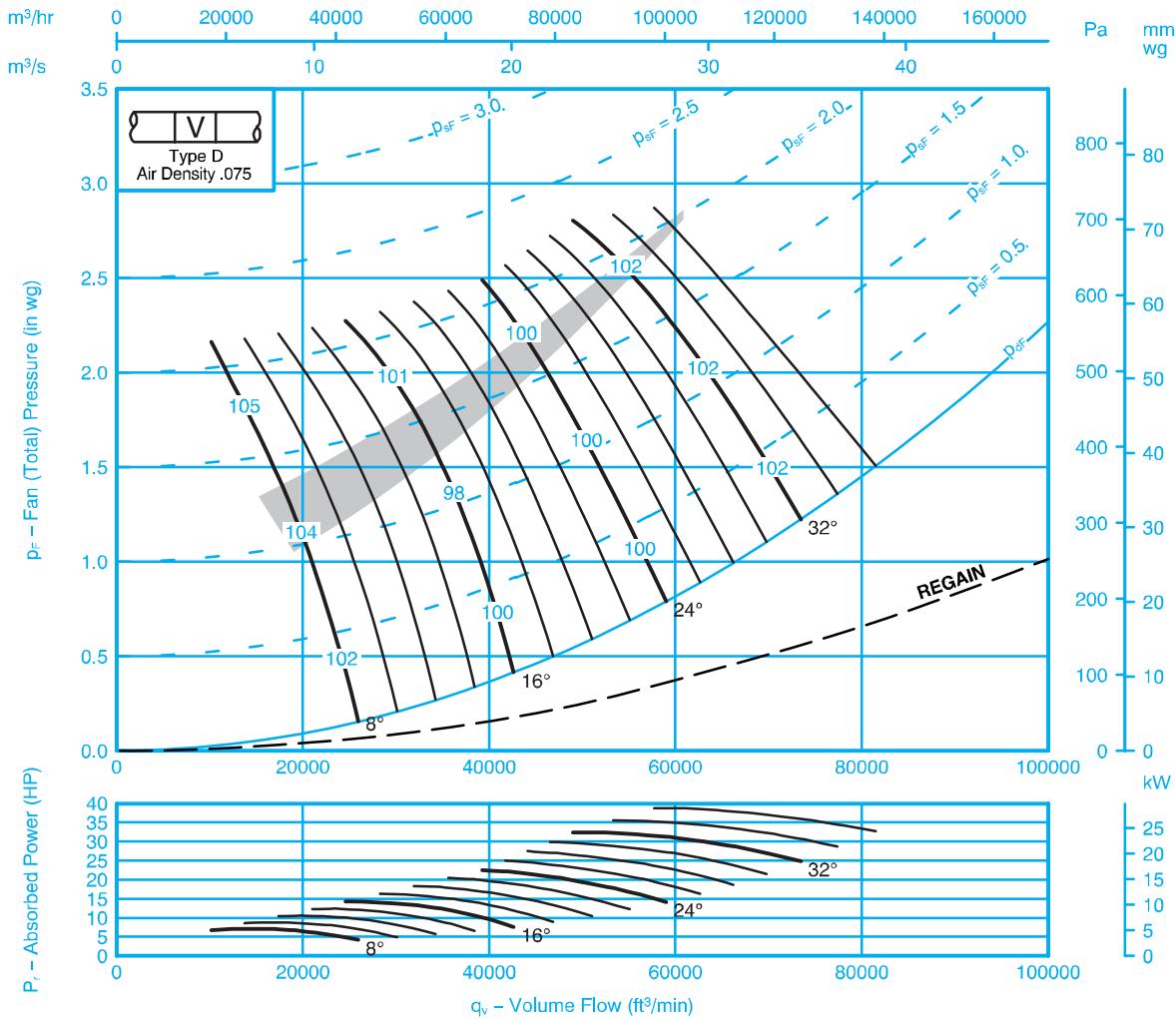
Fan Code: 140JM/50/8/12/  
1400 mm 875 RPM  
12 Blades 60 Hz



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°	-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

Pitch Angle	Outlet Levels							
	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

C-122

Bulletin JMA60-05 July 2005



# JM AEROFOIL

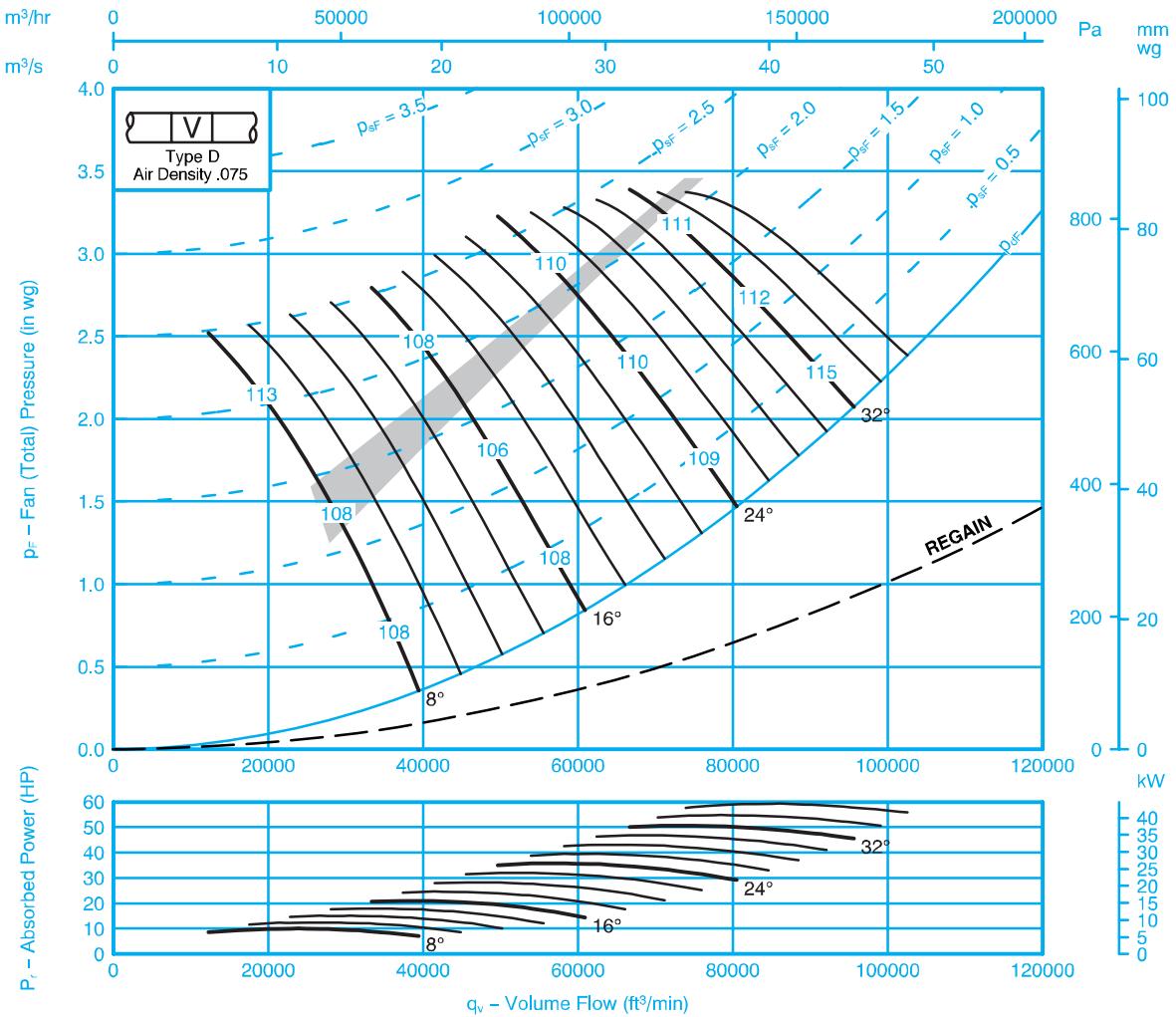
Fan Code: 140JM/40/6/6/...  
**1400 mm 1170 RPM**  
**6 Blades 60 Hz**



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.

Pitch Angle	Inlet Levels							
	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

Pitch Angle	Outlet Levels							
	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	-7	-10	-11	-15
	-6	-6	-6	-7	-10	-12	-13	-16

SK11531

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

C-123

Bulletin JMA60-05 July 2005



# JM AEROFOIL

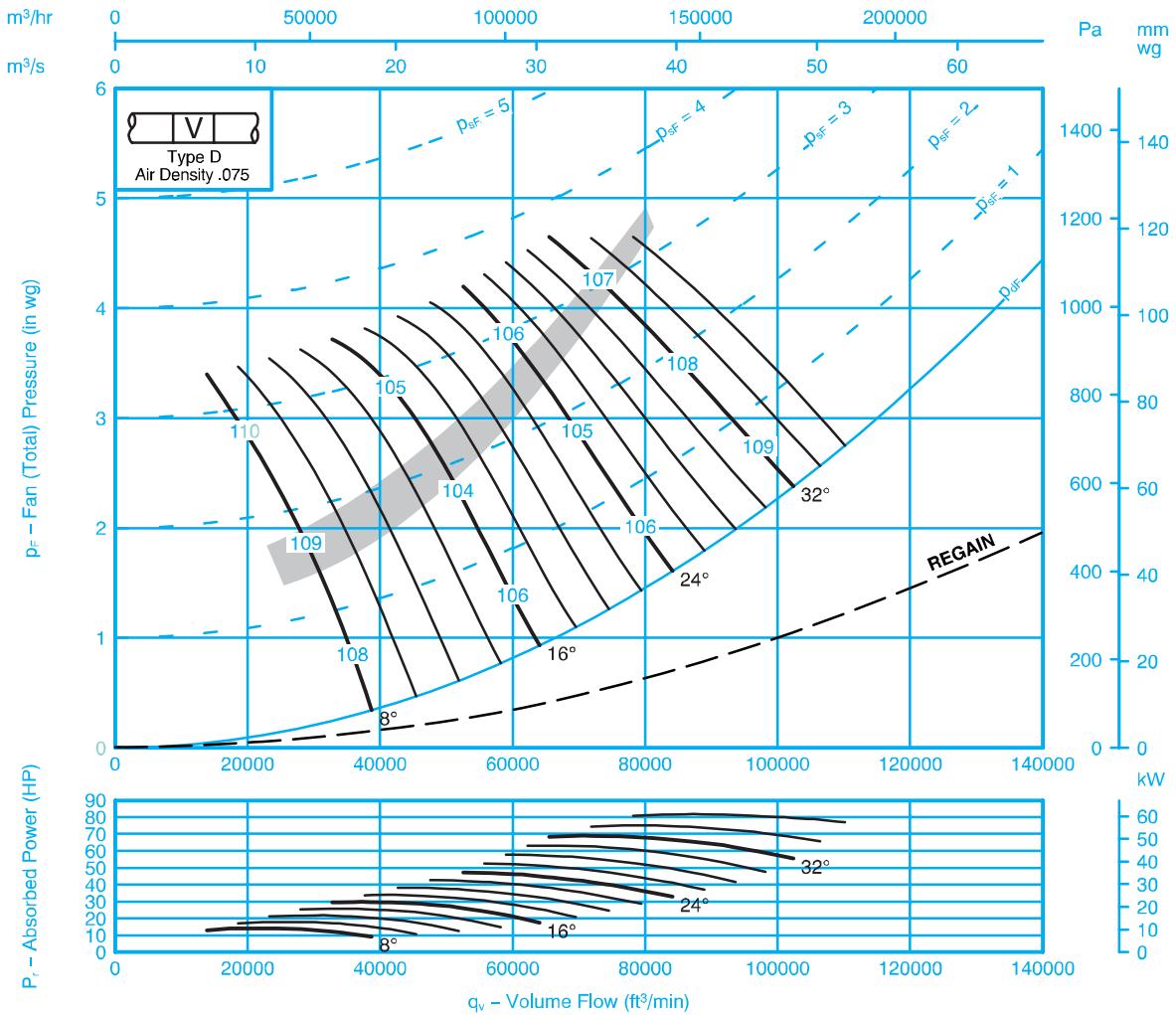
Fan Code: 140JM/40/6/9/...  
**1400 mm 1170 RPM**  
**9 Blades 60 Hz**



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.

Pitch Angle	Inlet Levels							
	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

Pitch Angle	Outlet Levels							
	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	-6	-8	-10	-13
	-2	-3	-7	-6	-8	-10	-11	-14

SK11532

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

C-124

Bulletin JMA60-05 July 2005



# JM AEROFOIL

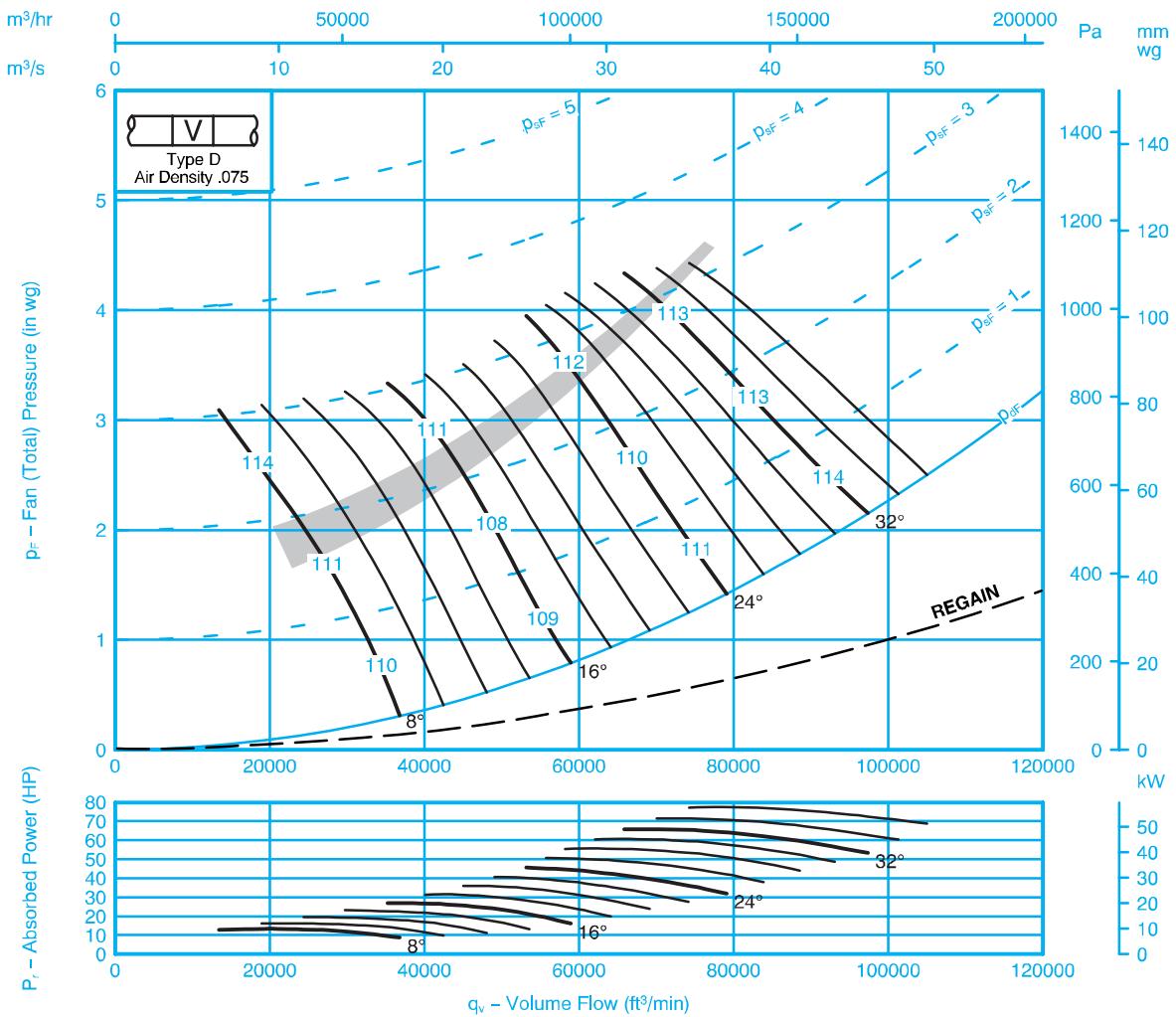
Fan Code: 140JM/50/6/9/...  
**1400 mm 1170 RPM**  
**9 Blades 60 Hz**



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°	-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

C-125

Bulletin JMA60-05 July 2005



# JM AEROFOIL

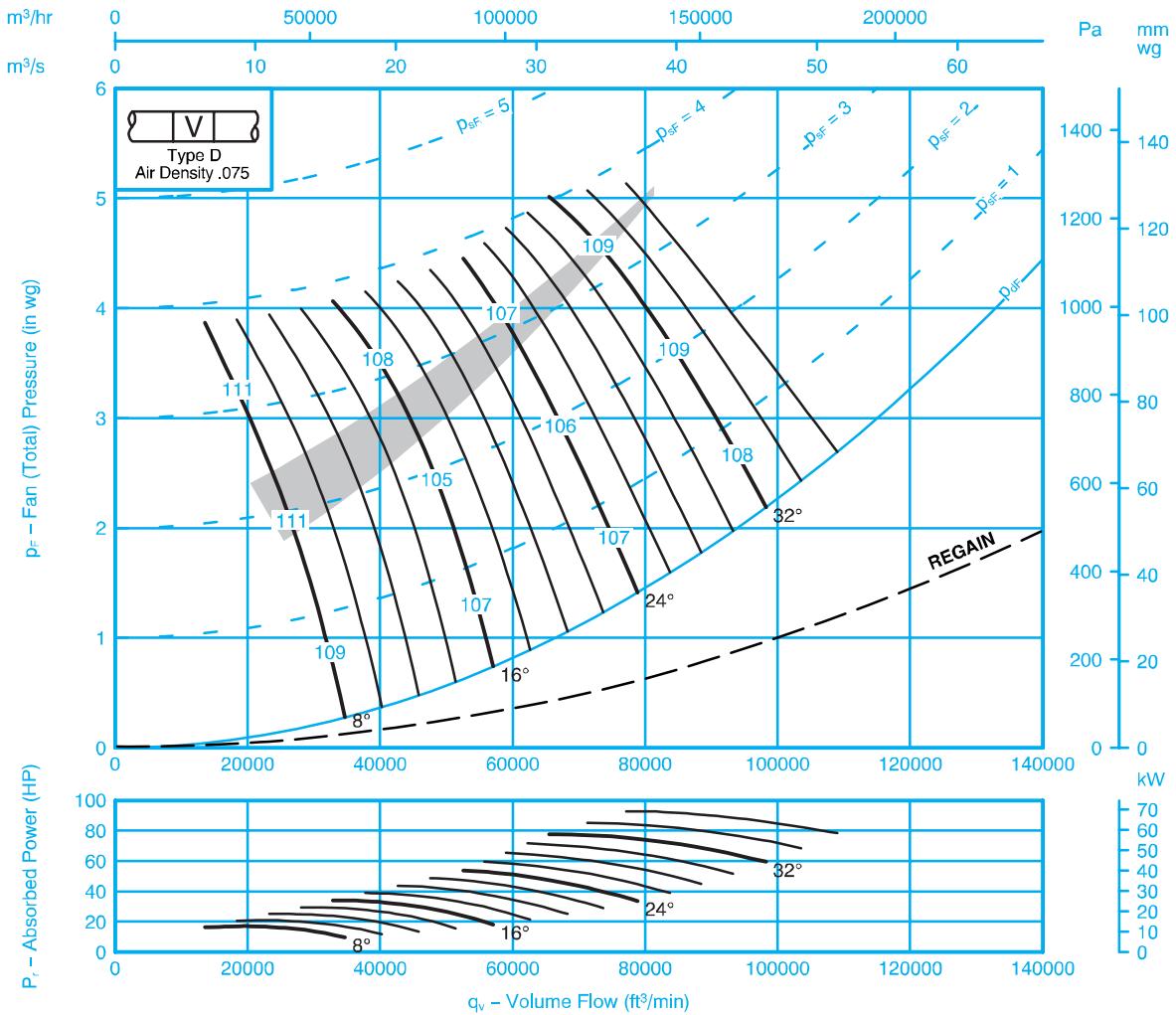
Fan Code: 140JM/50/6/12/  
1400 mm 1170 RPM  
12 Blades 60 Hz



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	-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

C-126

Bulletin JMA60-05 July 2005



# JM AEROFOIL

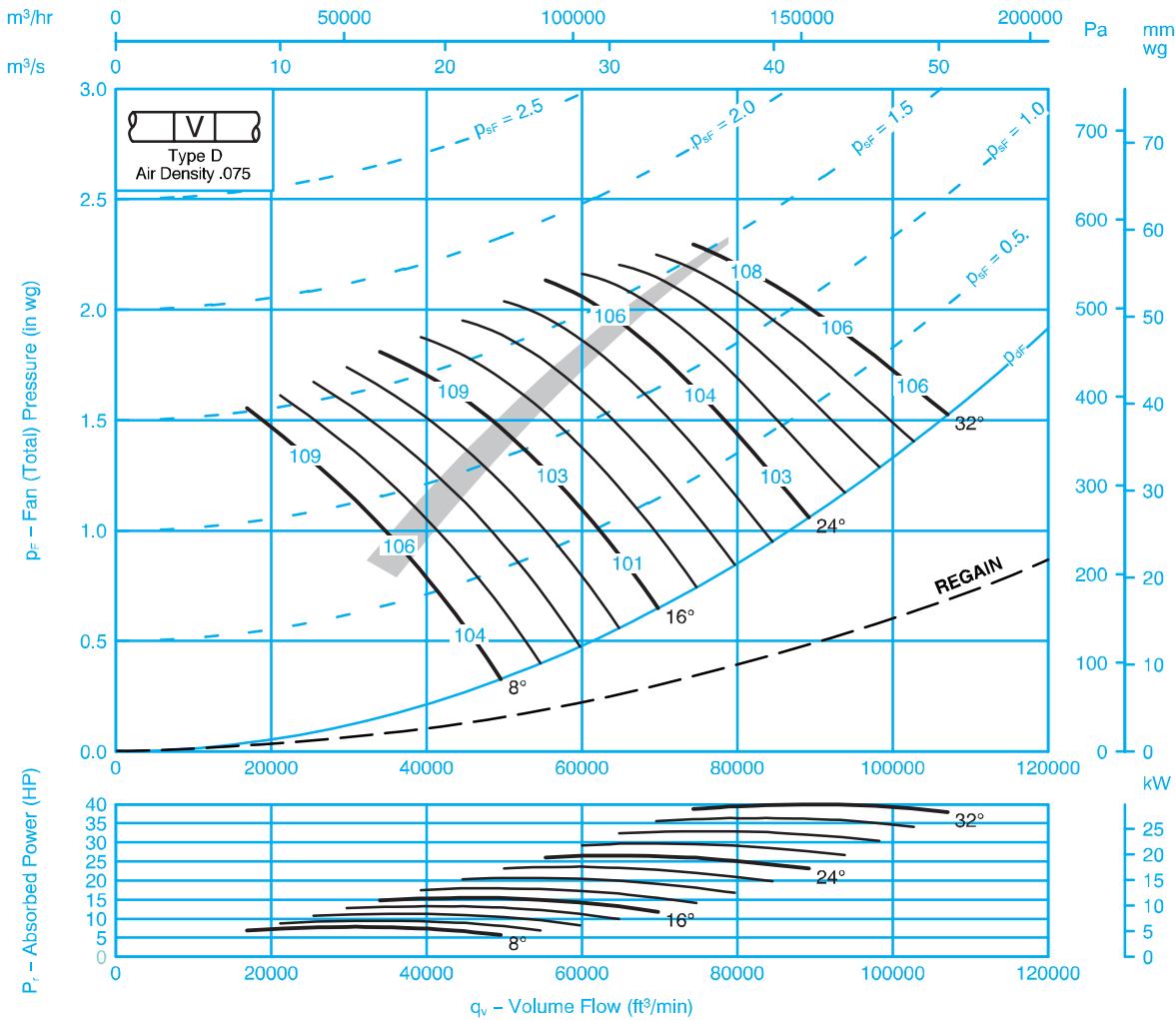
Fan Code: 160JM/40/8/6/...  
1600 mm 875 RPM  
6 Blades 60 Hz



2933 Symmes Road, Fairfield, Ohio 45014  
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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°	-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

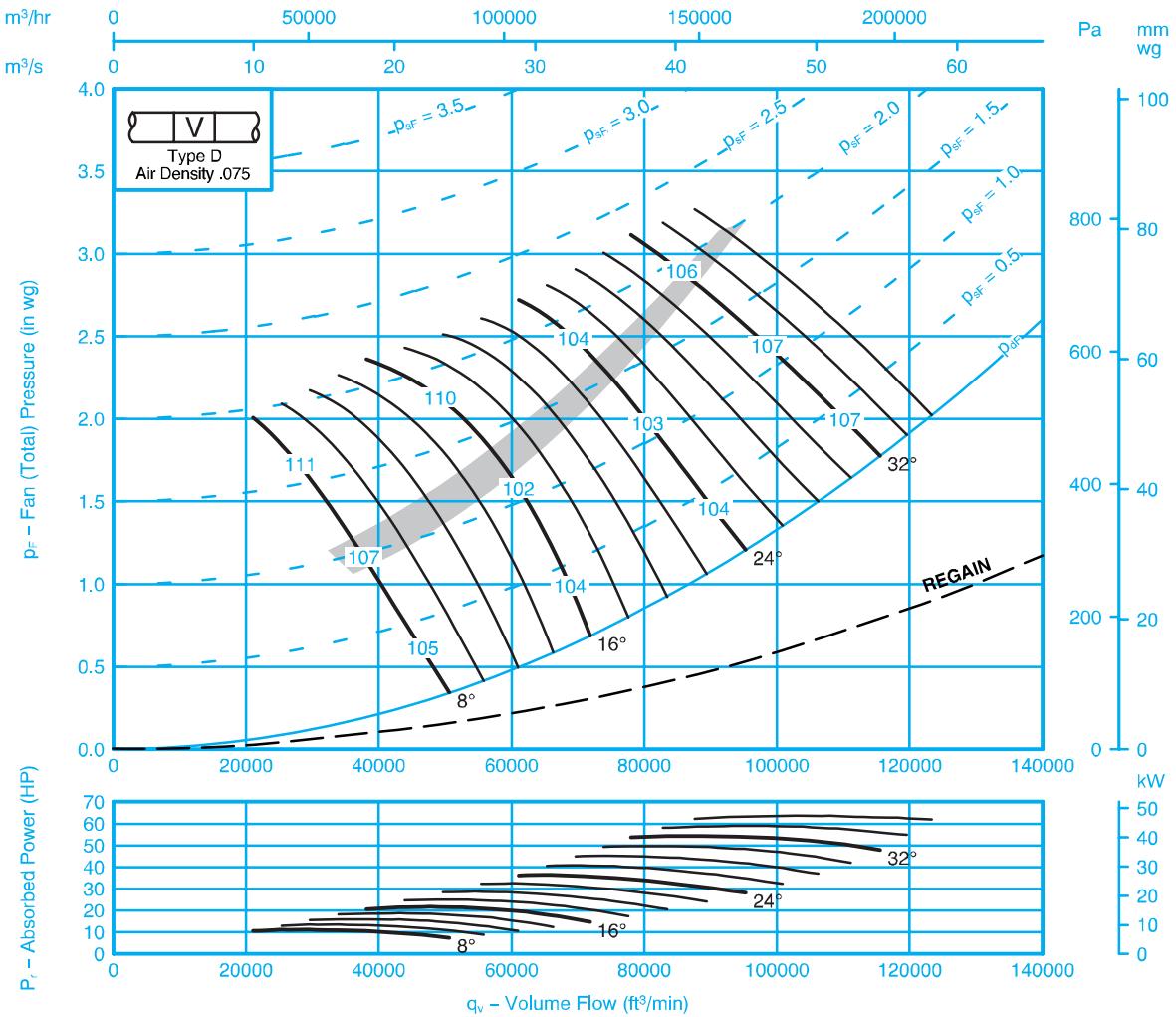
Fan Code: 160JM/40/8/9/...  
1600 mm 875 RPM  
9 Blades 60 Hz



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°	-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

C-128

Bulletin JMA60-05 July 2005



# JM AEROFOIL

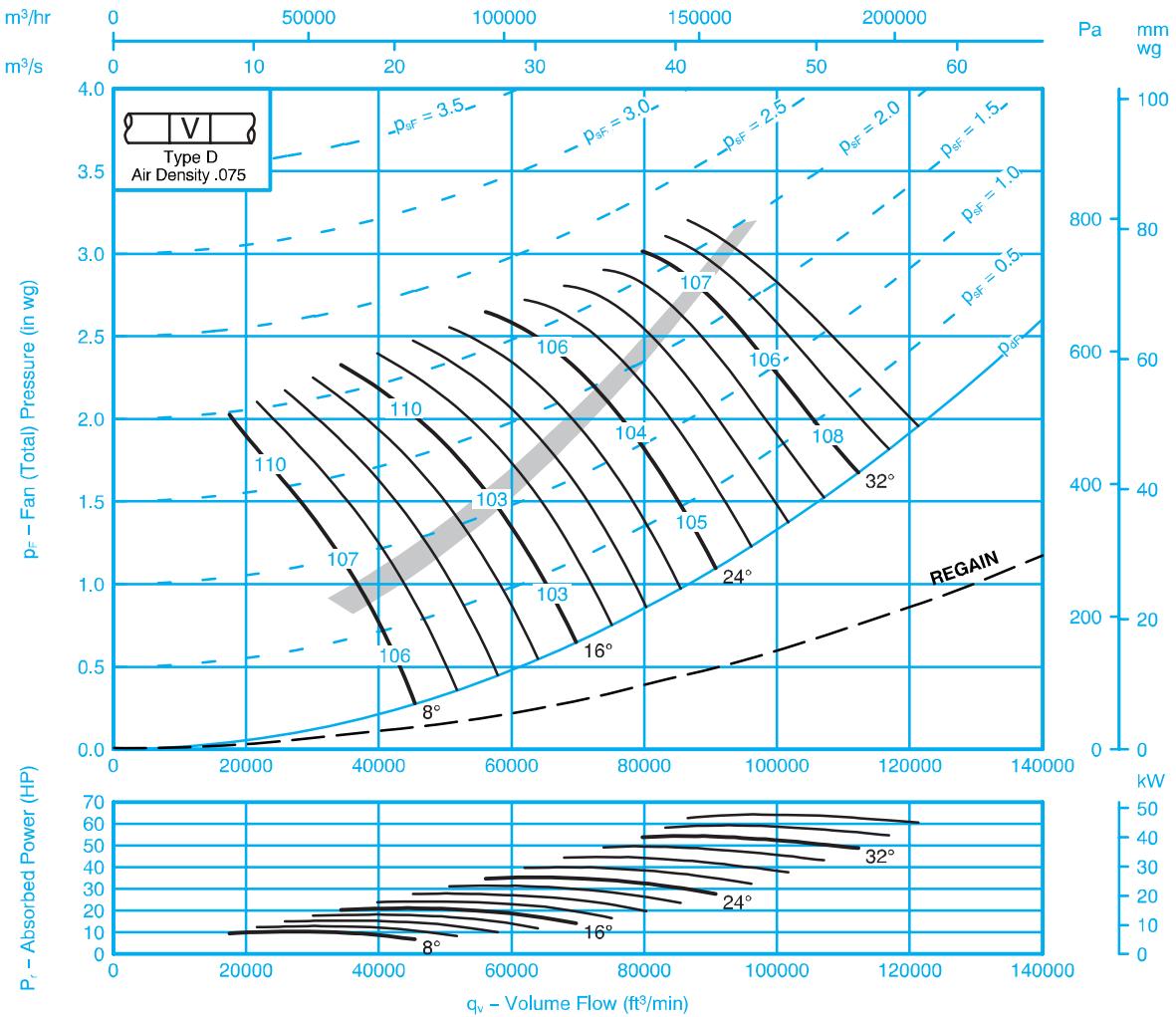
Fan Code: 160JM/50/8/9/...  
1600 mm 875 RPM  
9 Blades 60 Hz



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°	-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

Pitch Angle	Outlet Levels							
	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

C-129

Bulletin JMA60-05 July 2005



# JM AEROFOIL

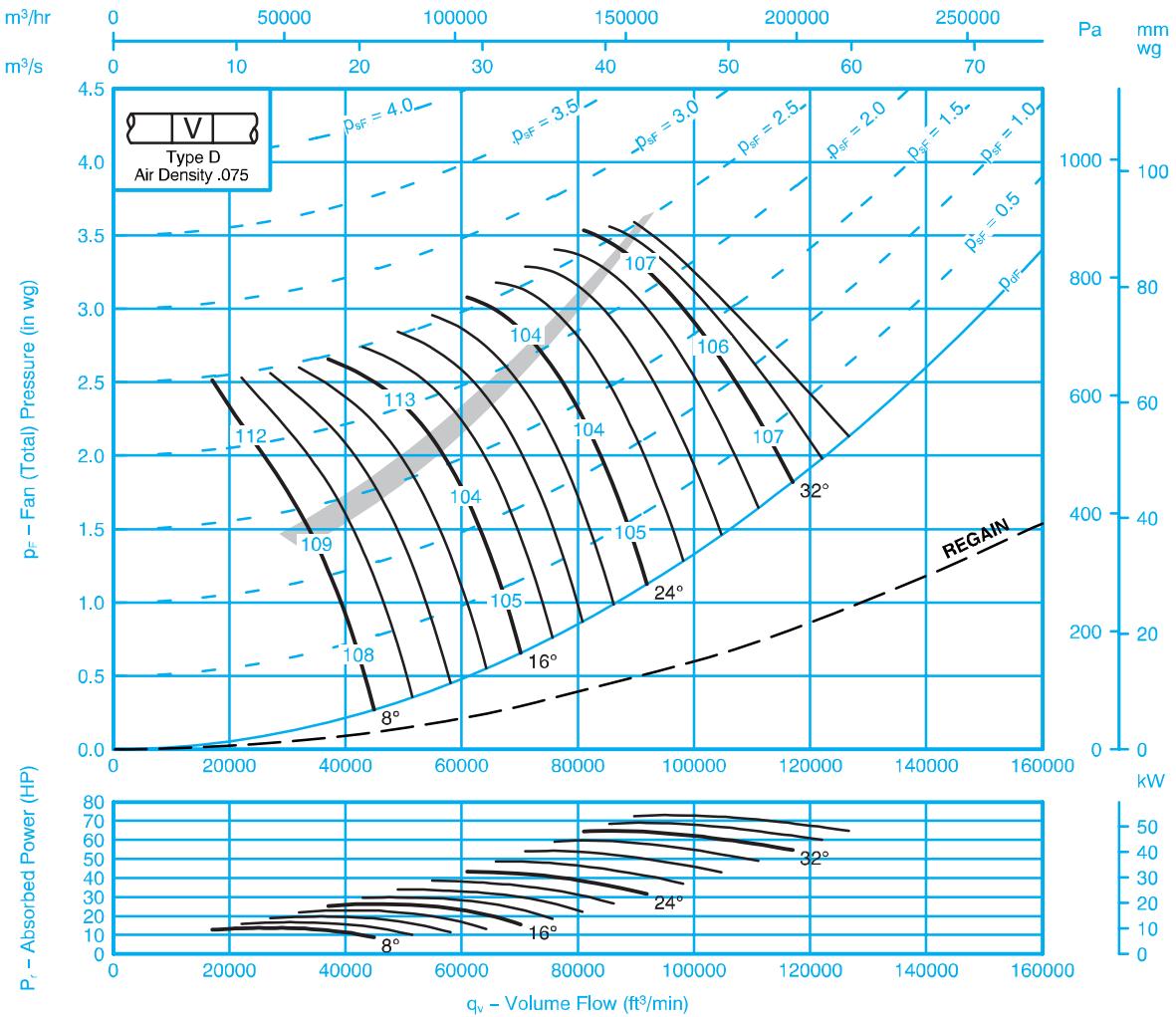
Fan Code: 160JM/50/8/12/  
1600 mm 875 RPM  
12 Blades 60 Hz



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.

Pitch Angle	Inlet Levels							
	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

Pitch Angle	Outlet Levels							
	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

C-130

Bulletin JMA60-05 July 2005



# JM AEROFOIL

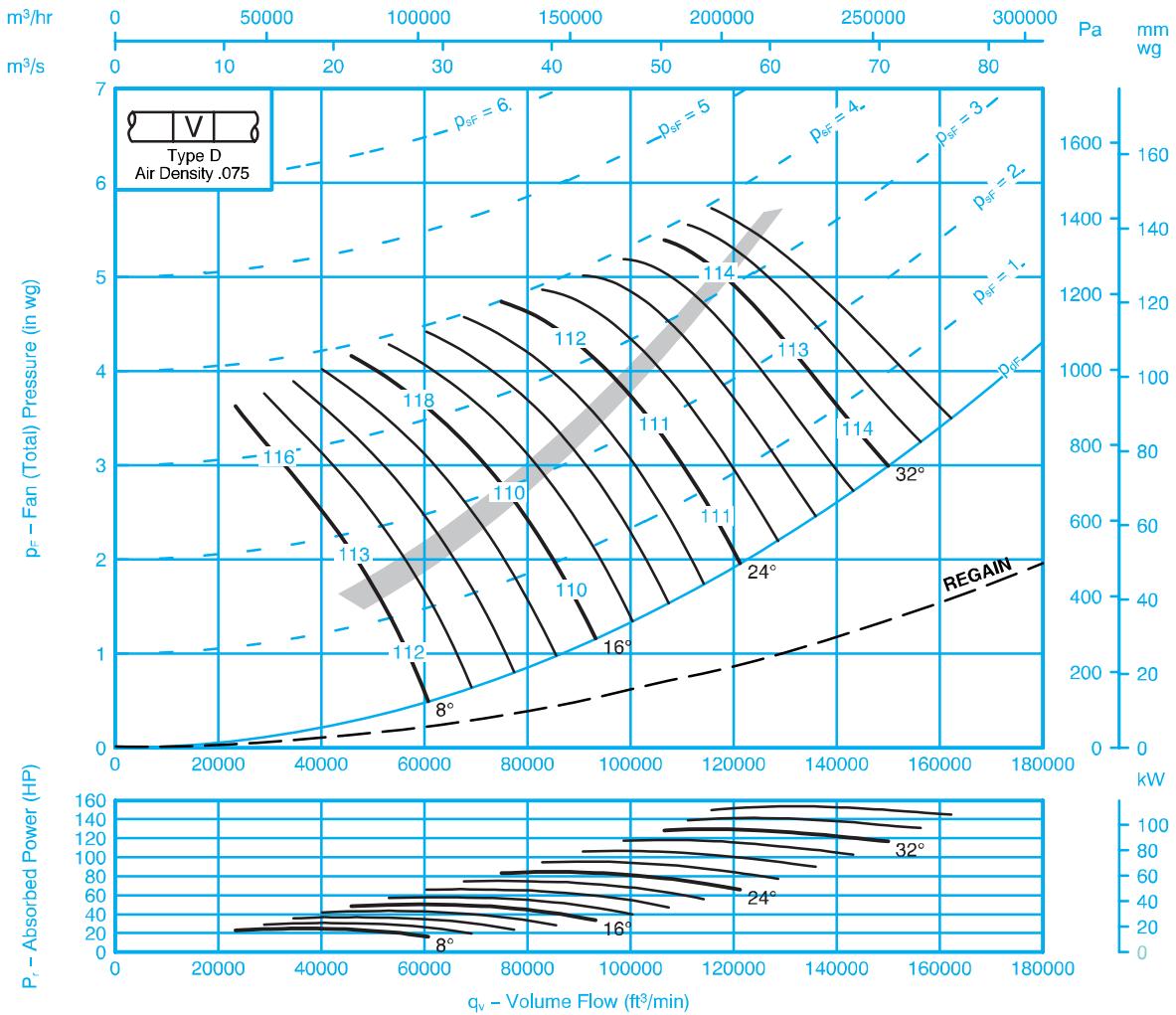
Fan Code: 160JM/50/6/9/...  
1600 mm 1170 RPM  
9 Blades 60 Hz



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.

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	-7	-6	-8	-13
	-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

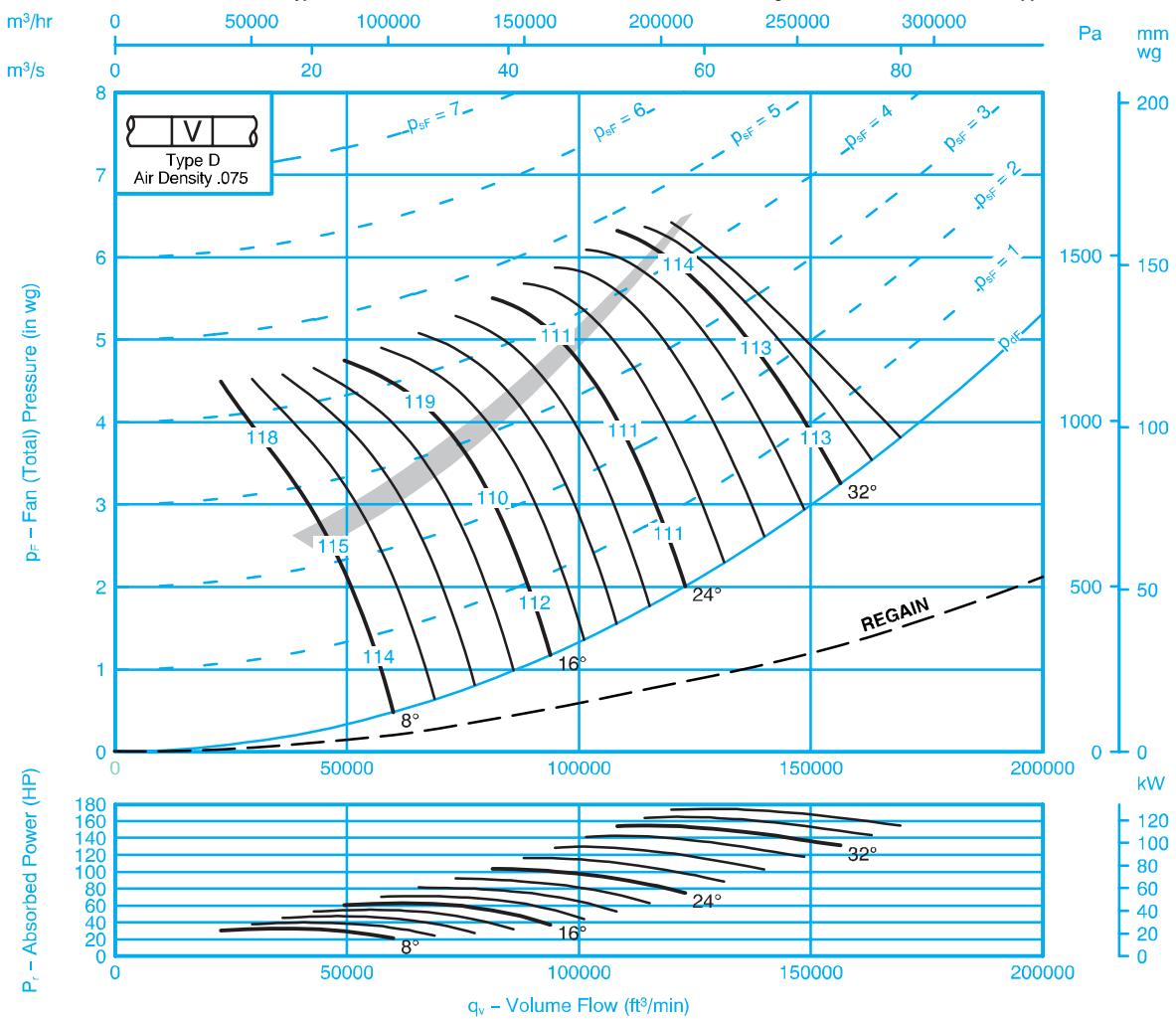
**Fan Code: 160JM/50/6/12/...**  
**1600 mm 1170 RPM**  
**12 Blades 60 Hz**

American  
Fan Company

**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°	-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

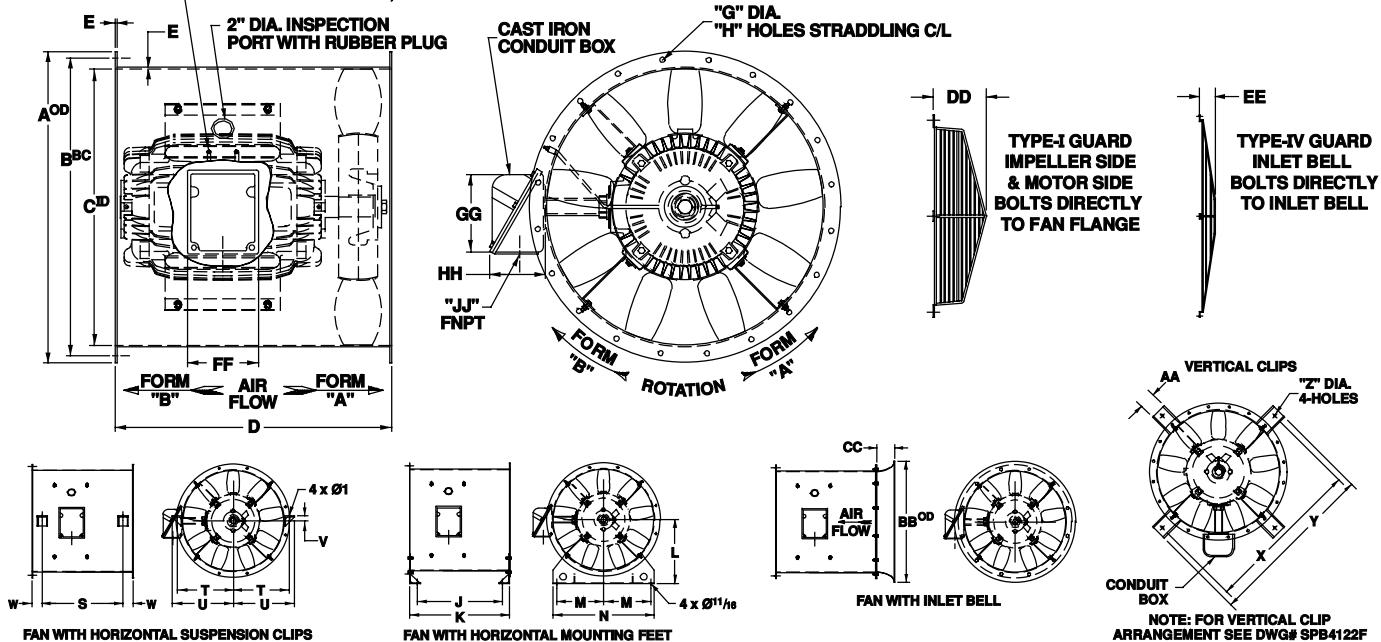
Fan size 112

Direct Drive with Pad Mounted Motors



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

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



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	Z	AA	BB	CC	DD	EE								
112	180P	10.0				16	.179			10%	15%				10	23%	25%										212	85	4%	6%	3½	%			
	210P	12.5				20				14½	19%				14												270	160	5%	7%	4½	1			
	250P	12.5/16.0				30				24½	29½				24												466	380	5%	7%	4½	1½			
	280P	12.5/16.0	48½	46%	44%					27½	32½				27	23½	25½		1½	3	56	59	%	4	53%	7%	5%	1½							
	320P	16.0/20.0				33	¼			32½	37½				32												543	560	7½	10	6	2			
	360P	16.0/20.0				38																					800					3			
	400P	20.0																									615	1170	10½	15½	8½	3			
125	210P	12.5				20	.179			14½	19%				12	26%	28%										300	160				1			
	250P	12.5/16.0				30				24½	29½				22												519	380	5%	7%	4½	1½			
	280P	12.5/16.0	53½	52	49½					30½	23½	50			25	26%	28%	2	4	61	64	%	4	59½	8½	5%	1½								
	320P	16.0/20.0				33	¼			27½	32½				30												604	560	7½	10	6	2			
	360P	16.0/20.0				38				32½	37½																800					3			
	400P	20.0																									684	1170	10½	15½	8½	3			
			METRIC UNITS (mm)												(kg)																				
112	180P	250				406	4.6			276	397				254												96	38.6	122	165	83				
	210P	315				508				378	498				356	603	641										122	72.6	136	198	108				
	250P	315/400				762				629	749				610												211	172	136	198	108	A			
	280P	315/400	1228	1190	1120					838	6.4	17.5	20		686	605	643	38	76	1422	1499	15.9	102	1351	194	137	50								
	320P	400/500								705	826				813												246	252	197	254	152				
	360P	400/500				965				832	953															279	531	260	394	216					
	400P	500				508	4.6			371	498				305	681	732									136	72.6								
125	210P	315				762				622	749				559											235	172	136	198	108					
	250P	315/400								699	826				635												274	252	197	254	152				
	280P	315/400	1358	1320	1250					826	953				762												310	531	260	394	216				
	320P	400/500																																	
	360P	400/500																																	
	400P	500				965																													
			SEE INCH DIMENSIONS																																

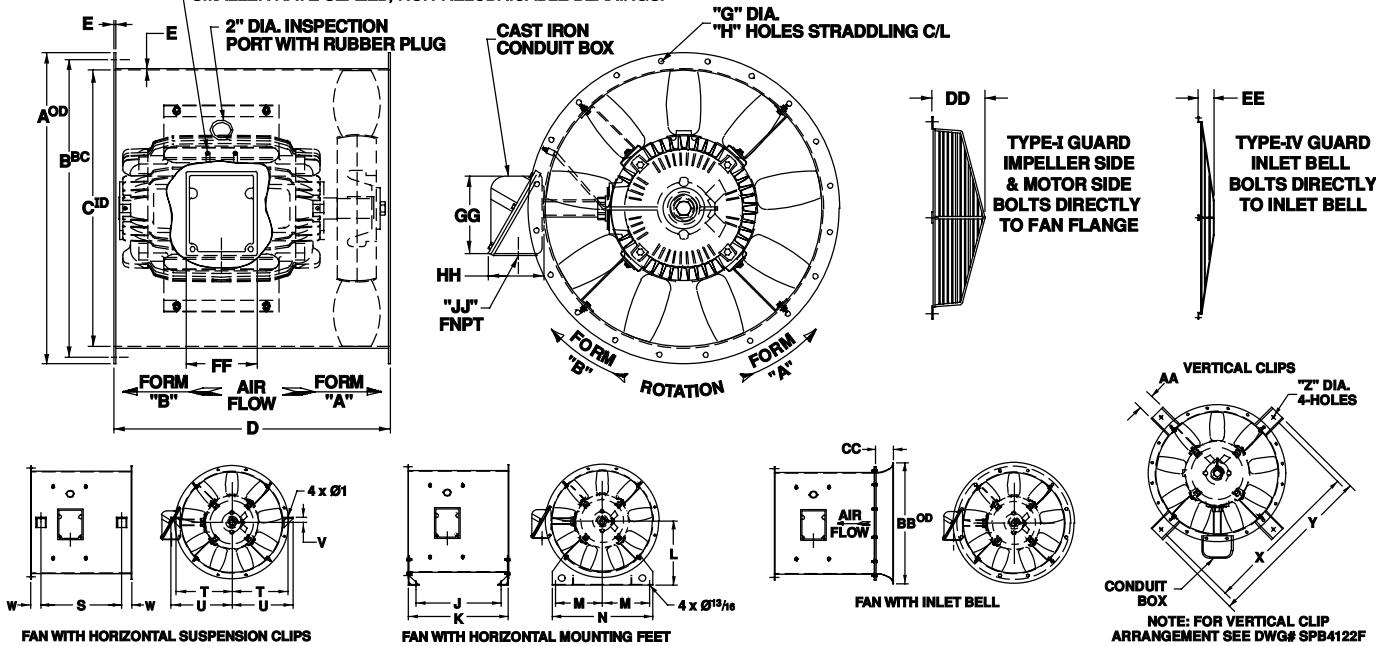
# JM AEROFOIL

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