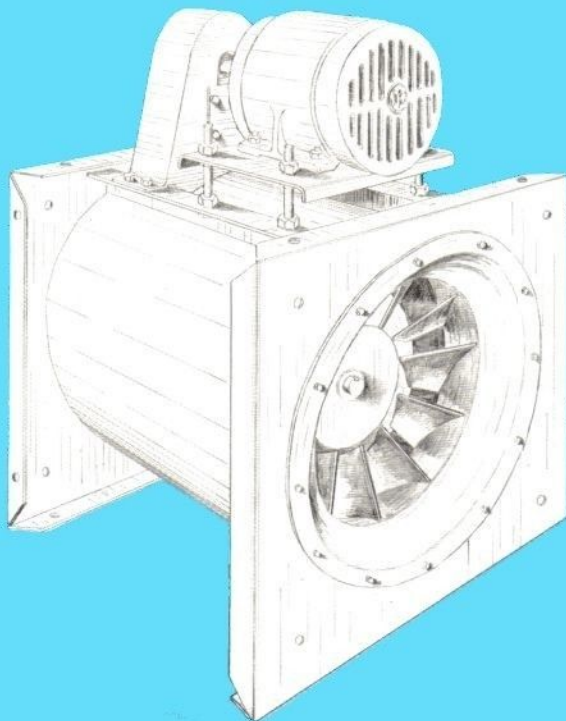


**SHELDONS
ENGINEERING**



*Leaders in
Fan Technology*

TYPE MF MIXED FLOW FAN 2000 SERIES



Low installation cost

**Compact, saving valuable
floor space**

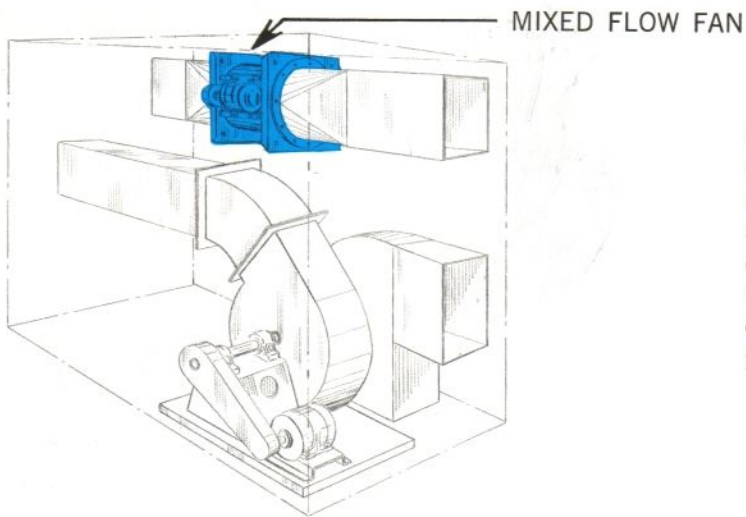
**Non-overloading horsepower
characteristics**

**Low sound levels listed in
octave bands**

Belt drive for design flexibility

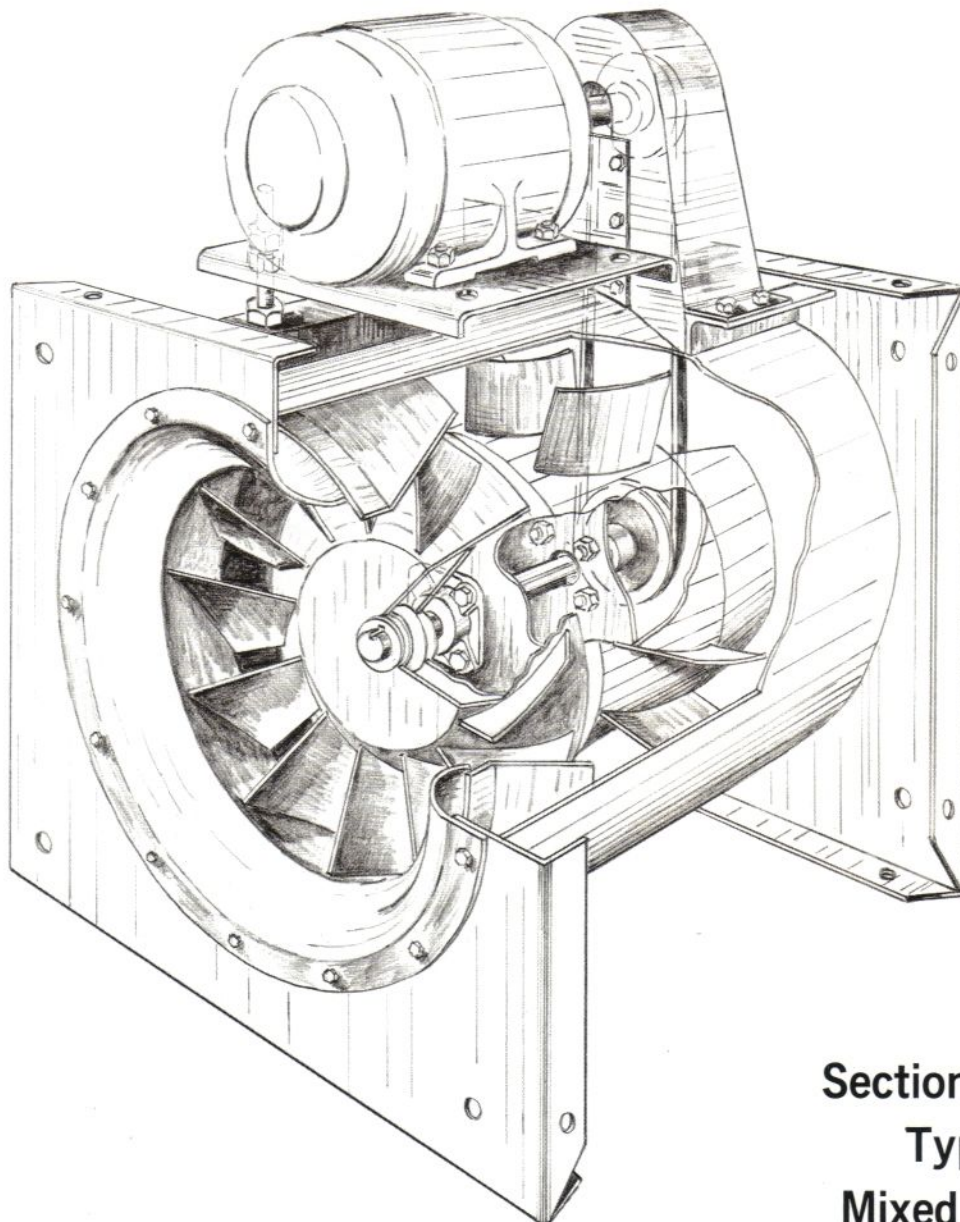
**Large volumes at medium
pressures**

Sheldons Engineering Inc.
1-800-265-3572



Sheldons Type MF Mixed Flow fans are specifically designed to save space. Compact, cylindrical construction makes them ideal for fitting into ducting systems — and these fans can be either suspended or floor mounted at any angle from vertical to horizontal. The belt drive allows great flexibility in the range of speeds, duties and pressures, and permits easy maintenance of the externally mounted motor.

Space-saving Mixed-Flow fan compared with conventional fan installations



**Sectional View of
Type MF
Mixed Flow Fan**

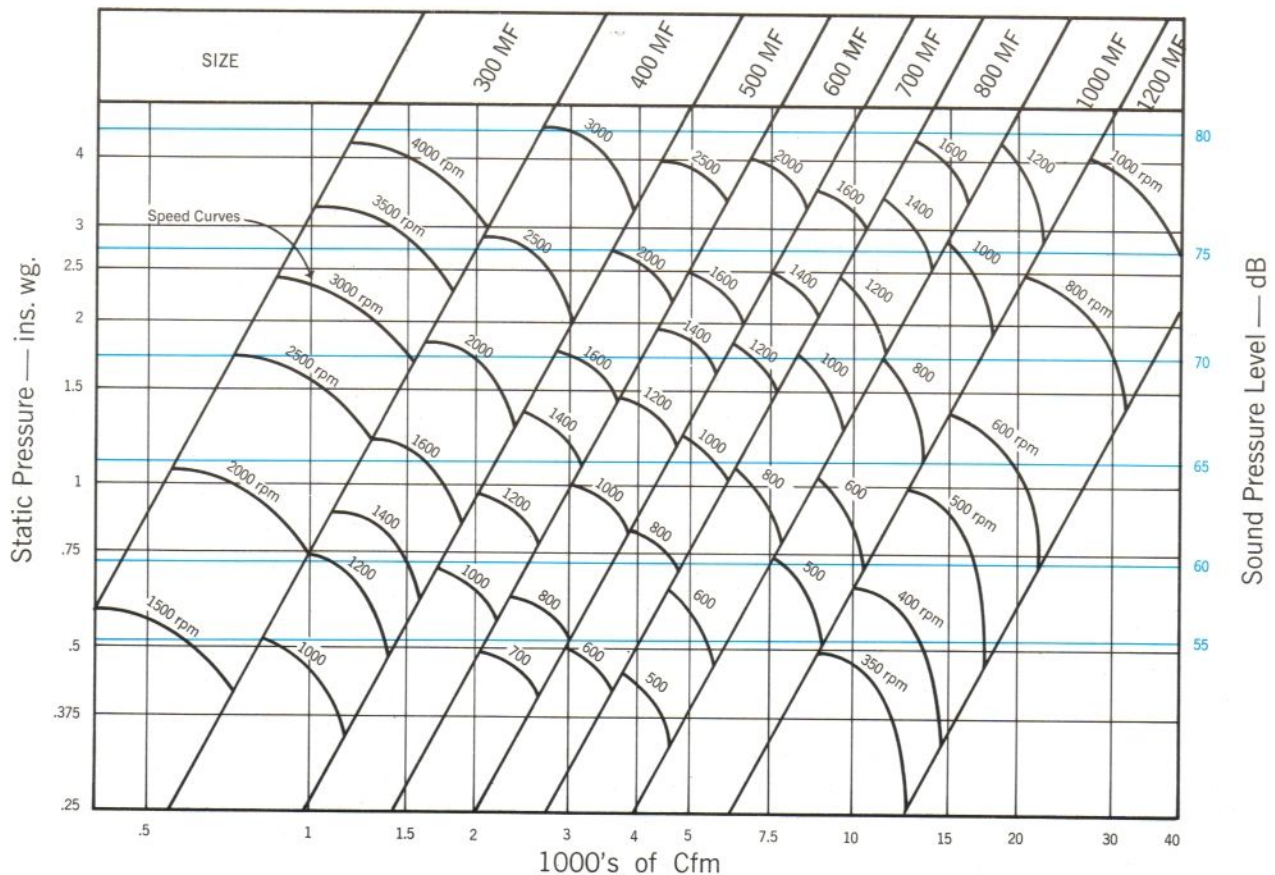
Sheldons Type MF Mixed Flow Fan

Features . . .

- Heavy gauge welded cylindrical outer barrel with square end panels for versatility in method of mounting fan.
- Inner guide vanes insure smooth airflow from discharge, and support inner barrel to form rigid unit.
- Spun inlet ring for streamlined flow to wheel.
- Mixed flow wheel has spun shroud and back-plate for maximum streamlining. Die-formed blades, jig-welded to ensure accurate wheel clearances. Wheels dynamically balanced for vibration-free operation.
- Shaft and Bearings selected for long life. Bearings are regreasable through standard external grease nipples.
- External sealed belt guard provided as standard.
- Adjustable motor base provided as standard.
- Flanged connections are standard. Slip fit connections provided as optional extra.
- Octave band sound levels available directly from performance curves.

Quick Selection Chart

The chart serves as a general guide in selecting the most efficient fan for the performance required. Reference should then be made to the proper table for the selected fan size.



300 MIXED FLOW – Arr. 9

[illegible]

400 MIXED FLOW - Arr. 9

[illegible]

SOUND DATA TABLE - Size 300 MF

SPEED	Lp (dB)	SPECTRUM CORRECTION - Lp							ADDITION FOR LW
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
1600	58	-10	-8	-11	-13	-16	-17	-20	+ 10
1800	61								
2000	64								
2200	66								
2400	68								
2600	70								
2800	71								
3000	73								
3200	75								
3400	76								
3600	77								
3800	79								
4000	80								
4200	81								

SOUND DATA TABLE - Size 400 MF

SPEED	Lp (dB)	SPECTRUM CORRECTION - Lp							ADDITION FOR LW
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
1000	56	-9	-7	-10	-13	-16	-18	-23	+ 12
1200	60								
1400	63								
1600	66								
1800	70								
2000	72								
2200	74								
2400	76								
2600	78								
2800	80								
3000	82								

Data Reference: FMF-14

Sound Estimate Procedure:

1. Determine fan speed from the Performance Tables for the flow and static pressure required.
2. Obtain the Lp (dB) from the Sound Data Table.
3. Use the Spectrum Corrections to calculate Lp for 125 to 8000 Hz.
4. Add the Lw correction to calculate Lw for 125 to 8000 Hz.

500 MIXED FLOW - Arr. 9

[illegible]

600 Mixed Flow - Arr. 9

[illegible]

SOUND DATA TABLE - Size 500 MF

SPEED	Lp (dB)	SPECTRUM CORRECTION - Lp							ADDITION FOR LW
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
900	56	-8	-6	-9	-13	-16	-19	-24	+ 14
1000	59								
1200	63								
1400	67								
1600	71								
1800	73								
2000	76								
2200	78								
2400	80								
2500	81								

SOUND DATA TABLE - Size 600 MF

SPEED	Lp (dB)	SPECTRUM CORRECTION - Lp							ADDITION FOR LW
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
700	56	-7	-6	-9	-13	-16	-20	-25	+ 16
800	59								
900	62								
1000	65								
1100	67								
1200	69								
1400	72								
1600	75								
1800	78								
2000	80								

Data Reference: FMF-14

Sound Estimate Procedure:

1. Determine fan speed from the Performance Tables for the flow and static pressure required.
2. Obtain the Lp (dB) from the Sound Data Table.
3. Use the Spectrum Corrections to calculate Lp for 125 to 8000 Hz.
4. Add the Lw correction to calculate Lw for 125 to 8000 Hz.

700 Mixed Flow – Arr. 9

[illegible]

800 Mixed Flow – Arr. 9

[illegible]

SOUND DATA TABLE - Size 700 MF

SPEED	Lp (dB)	SPECTRUM CORRECTION - Lp							ADDITION FOR LW
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
600	55	-6	-6	-9	-12	-15	-20	-26	+ 17
700	59								
800	62								
900	65								
1000	68								
1200	72								
1400	75								
1600	78								
1800	81								

SOUND DATA TABLE - Size 800 MF

SPEED	Lp (dB)	SPECTRUM CORRECTION - Lp							ADDITION FOR LW
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
500	55	-5	-5	-9	-12	-15	-21	-27	+ 19
600	59								
700	63								
800	66								
1000	71								
1200	75								
1400	79								
1600	82								

Data Reference: FMF-14

Sound Estimate Procedure:

1. Determine fan speed from the Performance Tables for the flow and static pressure required.
2. Obtain the Lp (dB) from the Sound Data Table.
3. Use the Spectrum Corrections to calculate Lp for 125 to 8000 Hz.
4. Add the Lw correction to calculate Lw for 125 to 8000 Hz.

PERFORMANCE RATING TABLE

1000 MIXED FLOW – Arr. 9

[illegible]

1200 Mixed Flow – Arr. 9

[illegible]

SOUND DATA TABLE - Size 1000 MF

SPEED	Lp (dB)	SPECTRUM CORRECTION - Lp							ADDITION FOR LW
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
450	58	-4	-5	-9	-12	-14	-21	-28	+ 20
500	60								
600	64								
700	68								
800	71								
900	74								
1000	77								
1100	79								
1200	81								
1300	83								

SOUND DATA TABLE - Size 1200 MF

SPEED	Lp (dB)	SPECTRUM CORRECTION - Lp							ADDITION FOR LW
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
350	56	-4	-5	-9	-11	-14	-22	-28	+ 22
400	60								
450	62								
500	65								
550	67								
600	69								
700	73								
800	76								
900	79								
1000	81								

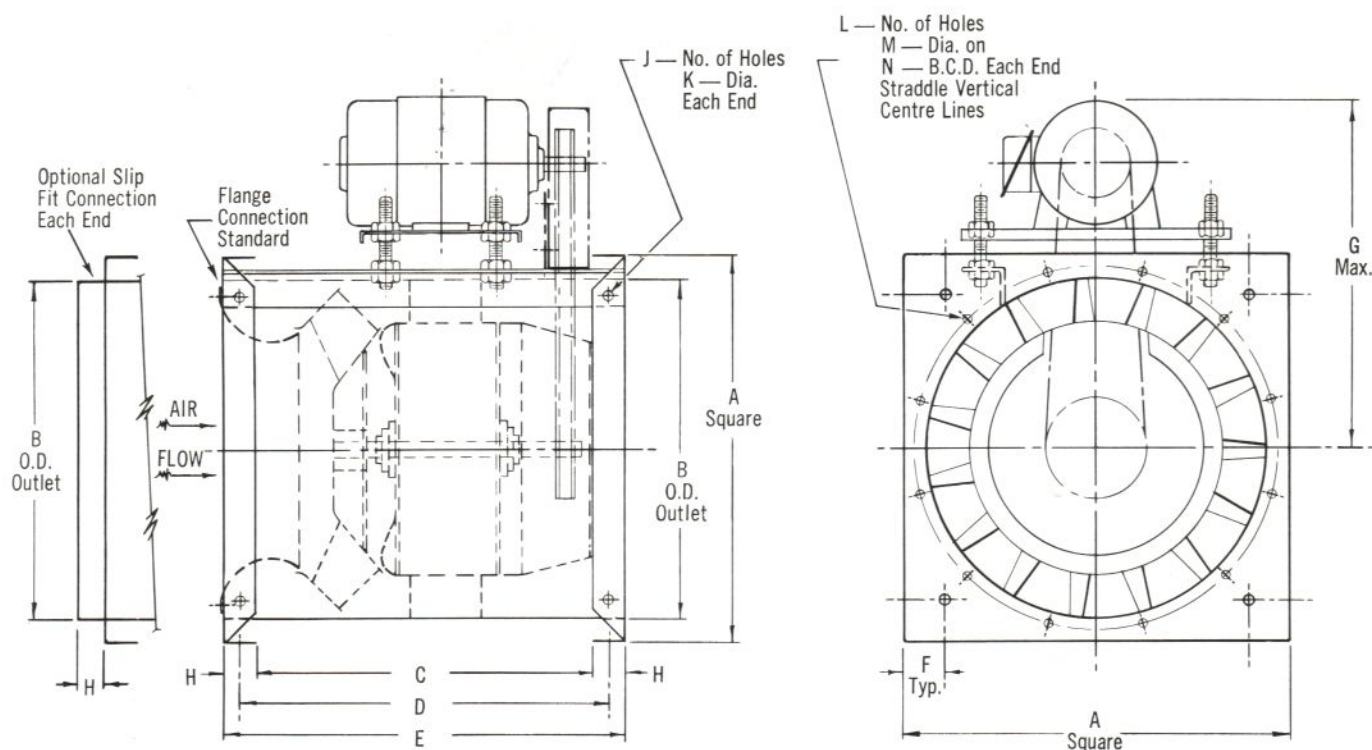
Data Reference: FMF-14

Sound Estimate Procedure:

1. Determine fan speed from the Performance Tables for the flow and static pressure required.
2. Obtain the Lp (dB) from the Sound Data Table.
3. Use the Spectrum Corrections to calculate Lp for 125 to 8000 Hz.
4. Add the Lw correction to calculate Lw for 125 to 8000 Hz.

DIMENSIONS . . .

TYPE MF FANS



SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	MAX. 'T' MOTOR FRAME	WT.*
300	16	12	12	13½	15	2¼	21½	1½	12	7/16	8	7/16	13¾	145T	110
400	20	15¾	16	17½	19	3	25¼	1½	12	7/16	8	7/16	17¾	184T	160
500	23¾	19¾	21½	22¾	24¾	3½	30¼	1½	12	7/16	8	7/16	21½	213T	300
600	30	23¾	24¾	26¾	28	4	33½	1¾	12	9/16	8	9/16	25¾	215T	370
700	33	27¾	28¾	30¾	32	4	37	1¾	12	9/16	8	9/16	29¾	254T	580
800	36½	31¾	32	34	36	4	39½	2	12	9/16	8	9/16	33½	256T	725
1000	46¾	39¾	41	43½	46	5	40½	2½	12	9/16	12	9/16	41½	284T	1230
1200	54¼	47¾	47	49½	52	5	48	2½	12	11/16	16	11/16	49¾	324T	1800

* Wt. Does Not Include Motor.

** Max motor frame is 256T for sizes 800 to 1200 if motor location is not 12:00 (motor on top of fan) and/or fan is used in vertical air flow application.

Dimensions and specifications are subject to change without notice.

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