

TUBE AXIAL

SP Regain using Outlet Cone — Ins. wg. .0025

.005

.01

.015

.02

VANE AXIAL

SIZE AF-12
860 rpm.

Fan Static Pressure — Ins. W.G. — Arr. 4

.25
.2
.15
.10
.08
.06
.04
.02
.01

Fan Static Pressure — Ins. W.G. — Arr. 4

.1
.08
.06
.04
.02
.01

Max. Tip Speed — 2700 ft./min.
Outlet Area — .785 sq. ft.
Air Density — .075 lb./cu. ft.

VELOCITY PRESSURE
INS. OF WATER

CFM Arr. 4 100 200 400 600 800
INLET VOLUME — CFM

The performance chart has been arranged to provide ratings for both Tubeaxial and Vaneaxial Direct Drive Arr. 4 fans. For details of a sample selection method, refer to page 6.

NOTE: Belt driven Arr. 9 Tube and Vaneaxial ratings are not offered in this size.

The range of performance is obtained by variations in number of blades and blade angle, the actual values of which are chosen by our Sales Office on receipt of a specific duty. The fan horsepower contours relate to the HP taken by each impeller, and for contra-rotating fans shown in the upper envelope give the maximum HP taken by each stage. The contours of sound level relate to the average Sound Pressure Level (Lp) in dB, re .0002 dynes/cm². The corresponding Sound Power level (Lw) re 10⁻¹² watts is 10 dB higher.

Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-5	-5	-6	-7	-10	-15	-22	-28

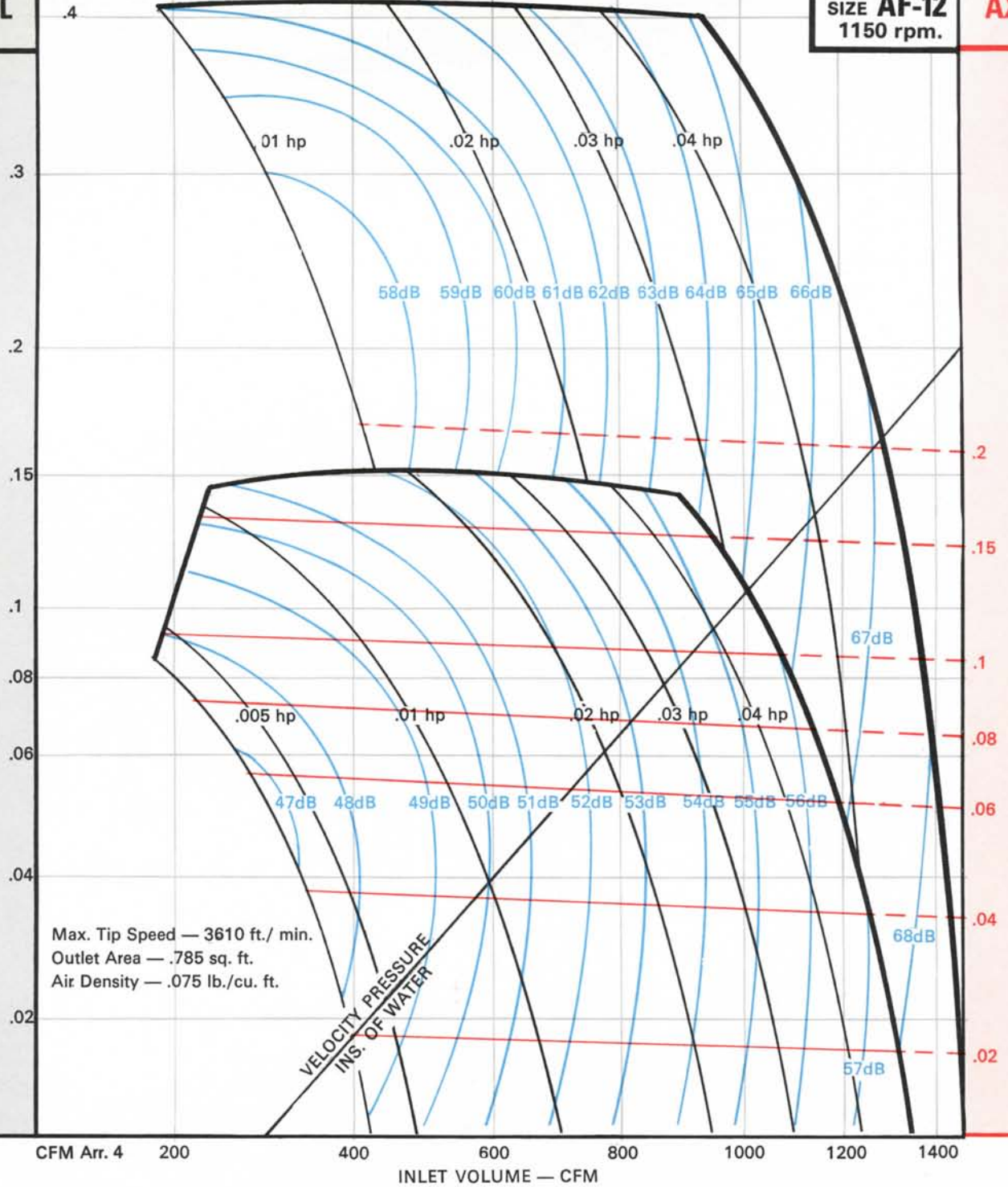
TUBE AXIAL

SP Regain using Outlet Cone — Ins. wg. .005

SIZE AF-12
1150 rpm.

VANE AXIAL

Fan Static Pressure — Ins. W.G. — Arr. 4



Fan Static Pressure — Ins. W.G. — Arr. 4

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Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-6	-5	-6	-7	-9	-12	-20	-26

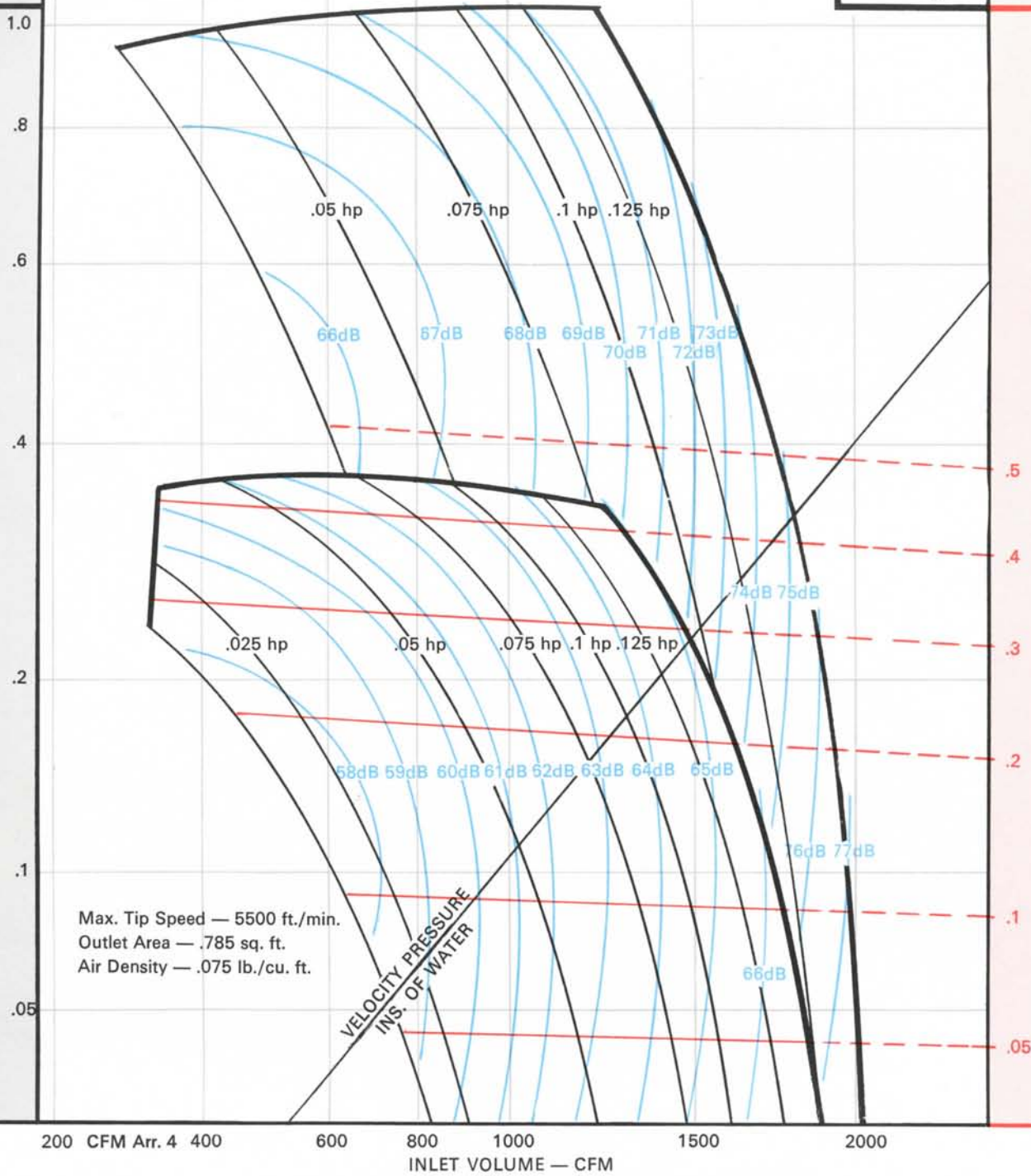
**TUBE
AXIAL**

**SIZE AF-12
1750 rpm.**

**VANE
AXIAL**

Fan Static Pressure — Ins. W.G. — Arr. 4

Fan Static Pressure — Ins. W.G. — Arr. 4



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TABLE 3

Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-8	-6	-5	-6	-8	-10	-18	-25

TUBE AXIAL

SP Regain using Outlet Cone — Ins. wg.

.05

.1

.2

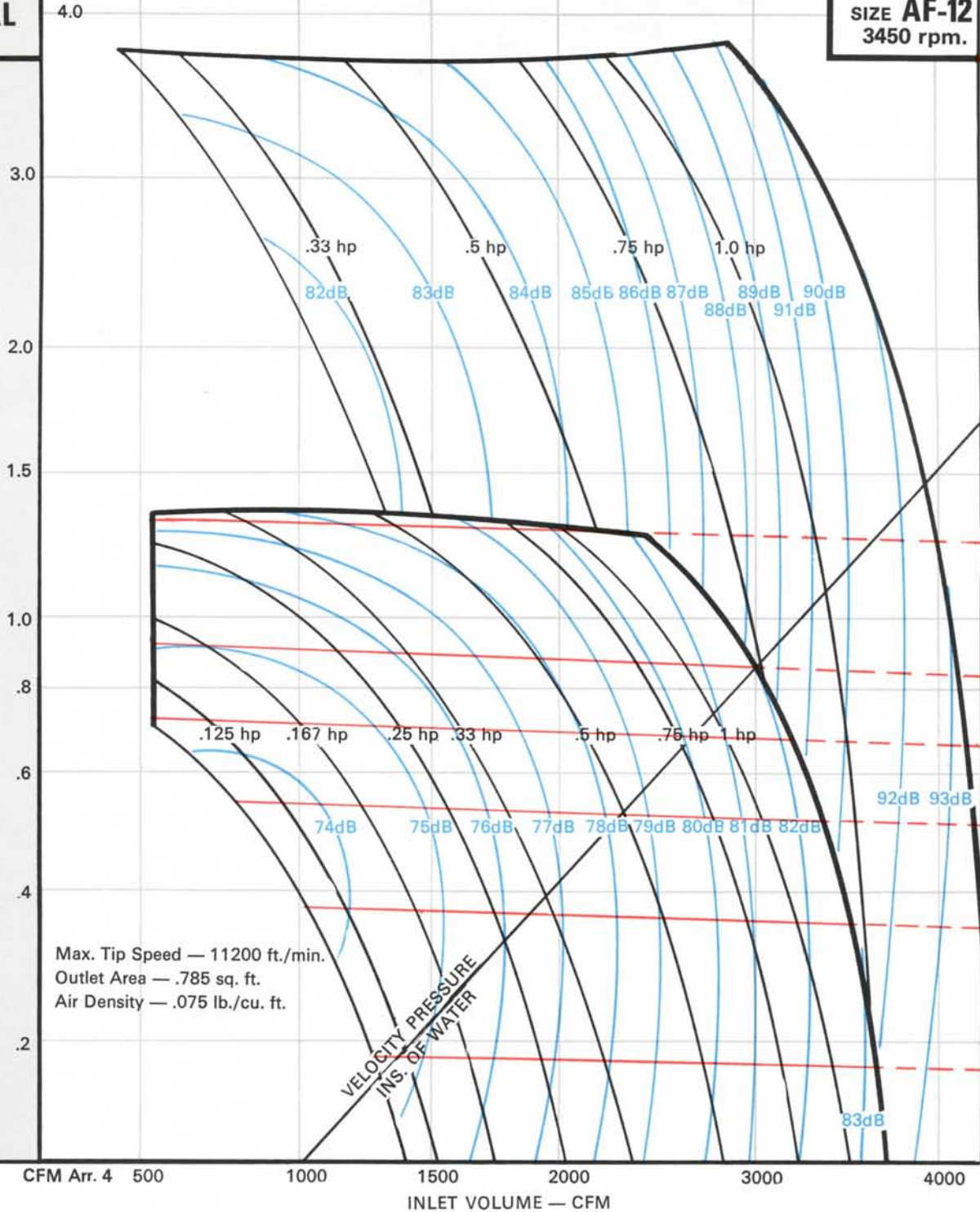
.3

.4

SIZE AF-12
3450 rpm.

VANE AXIAL

Fan Static Pressure — Ins. W.G. — Arr. 4



Fan Static Pressure — Ins. W.G. — Arr. 4

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TABLE 3

Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-12	-9	-6	-6	-7	-10	-15	-21

TUBE AXIAL

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

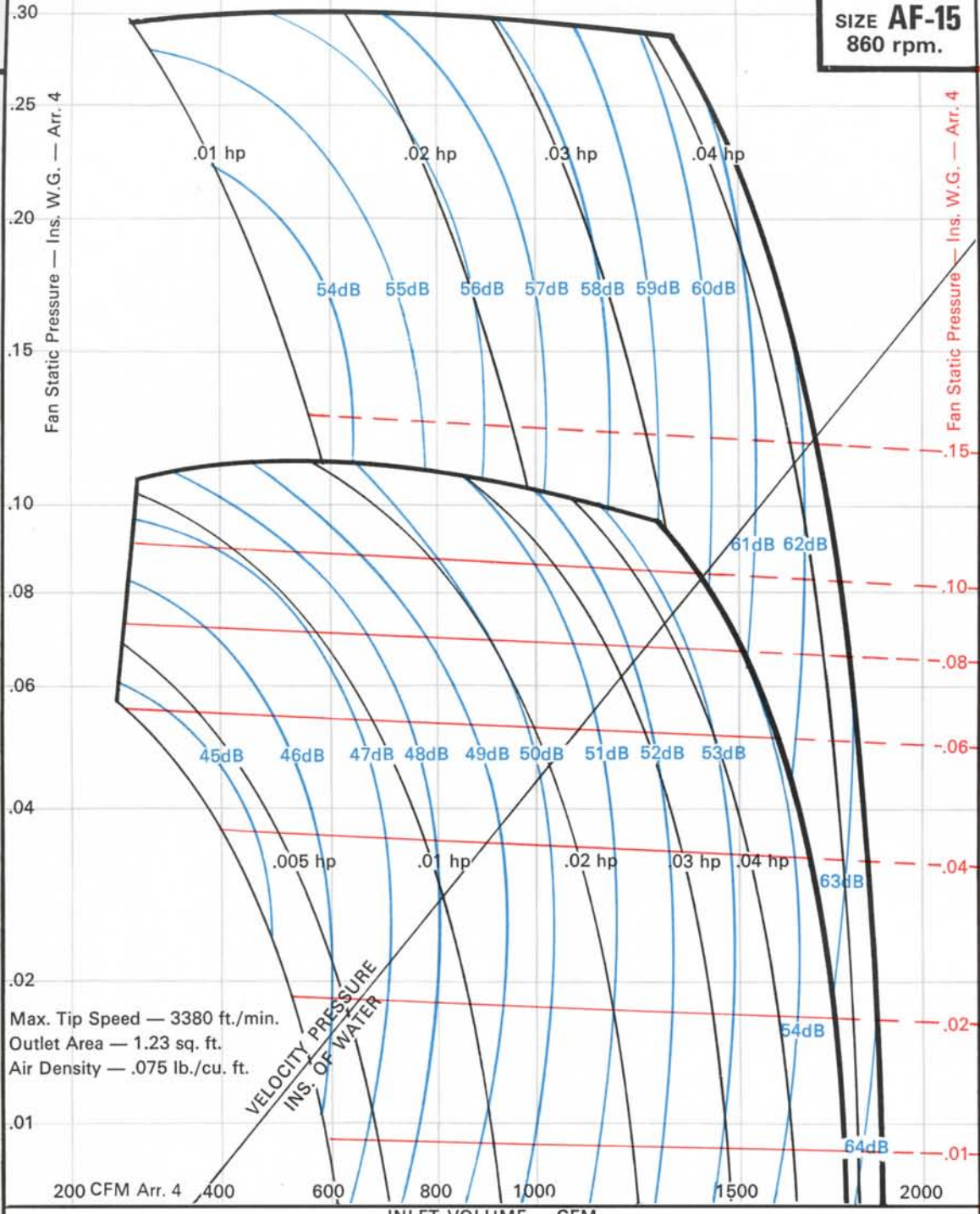
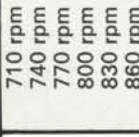
SP Regain using Outlet Cone — Ins. wg.

.01 .02 .03 .04 .05

SIZE **AF-15**
860 rpm.

VANE AXIAL

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)



Max. Tip Speed — 3380 ft./min.
Outlet Area — 1.23 sq. ft.
Air Density — .075 lb./cu. ft.

VELOCITY PRESSURE
INS. OF WATER

Fan Static Pressure — Ins. W.G. — Arr. 4

860 rpm
830 rpm
800 rpm
770 rpm
740 rpm
710 rpm

TABLE 1 HP/SPEED CORRECTION CHART

RPM	.01 hp	.02 hp	.03 hp	.04 hp	.05 hp	
710						
740						
770						
800						
830						
860						
	0	.01	.02	.03	.04	.05

TABLE 2 Sound Level Correction for Speed

RPM	860	830	800	770	740	710
dB	0	-1	-1	-2	-3	-4

The performance chart has been arranged to provide ratings for both Direct-driven and Belt driven, Tube and Vaneaxial fans. For details of a sample selection method refer to page 6.
NB: Belt Driven Ratings Corrected for Belt Guard Losses
The range of performance is obtained by variations in number of blades and blade angle, the actual values of which are chosen by our Sales office on receipt of a specific duty.
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TABLE 3

Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-5	-5	-6	-7	-10	-15	-22	-26

TUBE AXIAL

SP Regain using Outlet Cone — Ins. wg.

.01 .02 .03 .04 .05 .06 .07

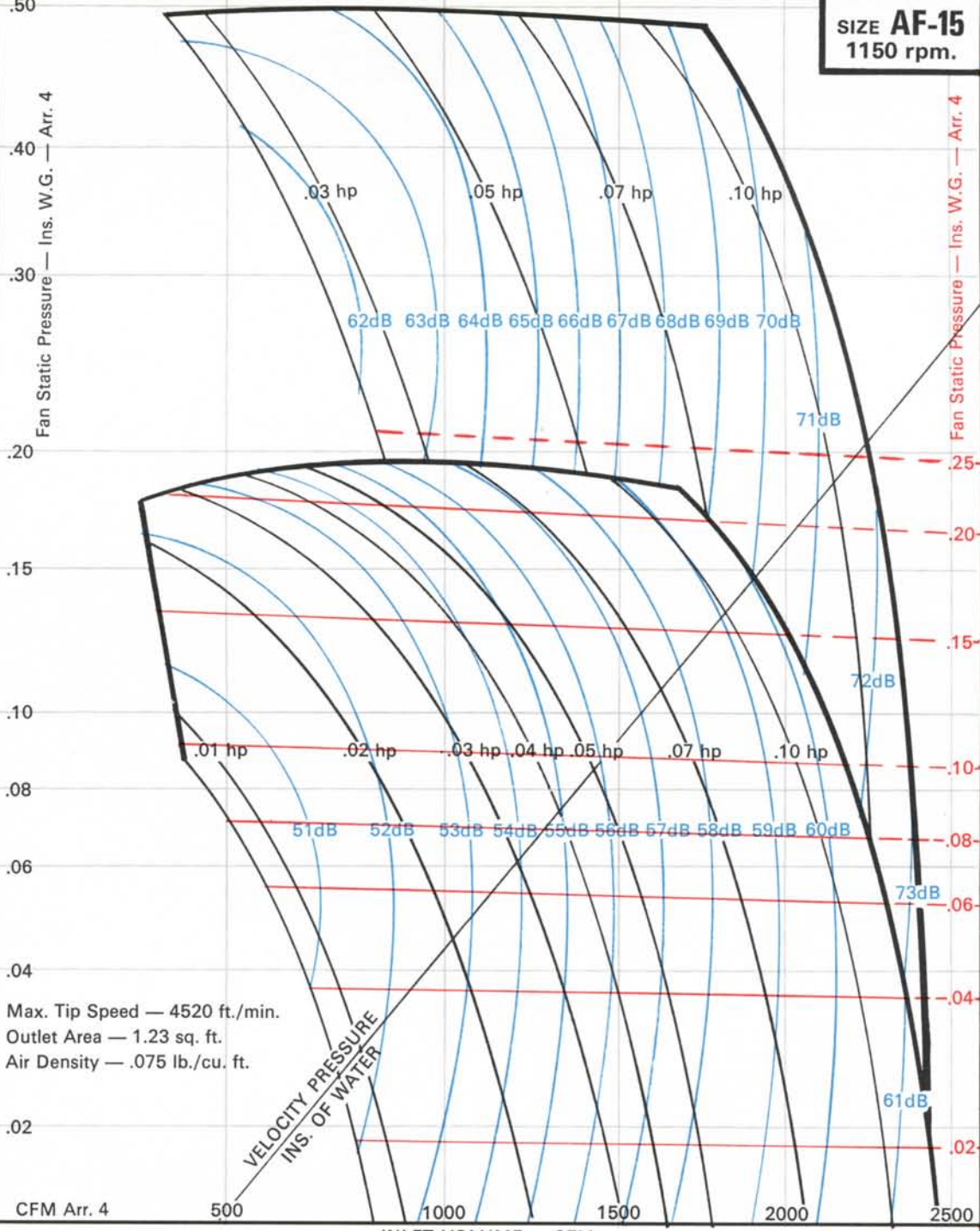
SIZE AF-15
1150 rpm.

VANE AXIAL

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)



900 rpm
950 rpm
1000 rpm
1050 rpm
1100 rpm
1150 rpm

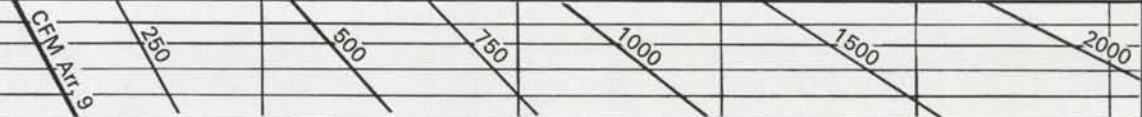


Max. Tip Speed — 4520 ft./min.
Outlet Area — 1.23 sq. ft.
Air Density — .075 lb./cu. ft.

VELOCITY PRESSURE
INS. OF WATER

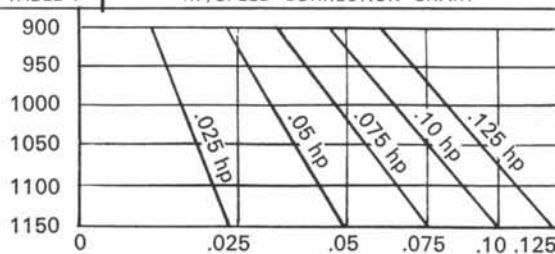
CFM Arr. 4 500 1000 1500 2000 2500

INLET VOLUME — CFM



1150 rpm
1100 rpm
1050 rpm
1000 rpm
950 rpm
900 rpm

TABLE 1 HP/SPEED CORRECTION CHART



Sound Level Correction for Speed	1150	1100	1050	1000	950	900
dB	0	-1	-2	-3	-4	-5

The performance chart has been arranged to provide ratings for both Direct-driven and Belt driven, Tube and Vaneaxial fans. For details of a sample selection method refer to page 6.

NB: Belt Driven Ratings Corrected for Bel: Guard Losses. The range of performance is obtained by variations in number of blades and blade angle, the actual values of which are chosen by our Sales office on receipt of a specific duty.

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Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-6	-5	-6	-7	-9	-12	-20	-26

TUBE AXIAL

SP Regain using Outlet Cone — Ins. wg.

.025

.05

.1

.15

.2

VANE AXIAL

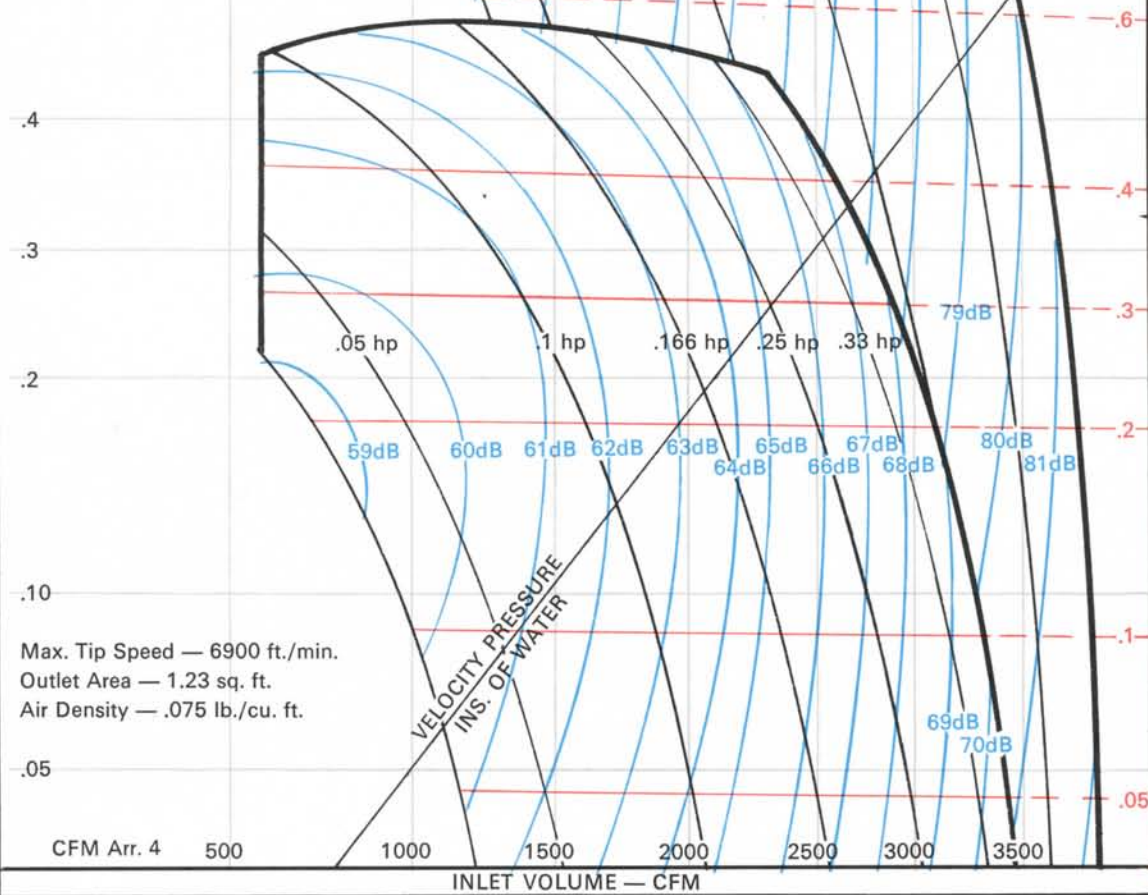
SIZE **AF-15**
1750 rpm.

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

Fan Static Pressure — Ins. W.G. — Arr. 4

Fan Static Pressure — Ins. W.G. — Arr. 4

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

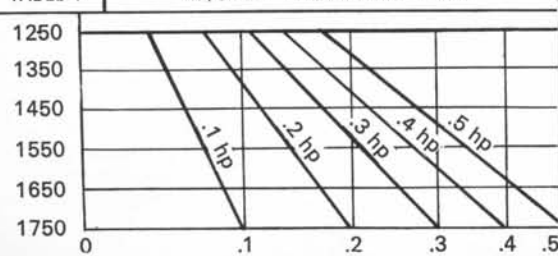


1750 rpm
1650 rpm
1550 rpm
1450 rpm
1350 rpm
1250 rpm



1750 rpm
1650 rpm
1550 rpm
1450 rpm
1350 rpm
1250 rpm

TABLE 1 HP/SPEED CORRECTION CHART



Sound Level Correction for Speed	1750	1650	1550	1450	1350	1250
dB	0	-1	-2	-4	-6	-8

The performance chart has been arranged to provide ratings for both Direct-driven and Belt driven, Tube and Vaneaxial fans. For details of a sample selection method refer to page 6.

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TABLE 3

Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-8	-6	-5	-6	-8	-10	-18	-21

TUBE AXIAL

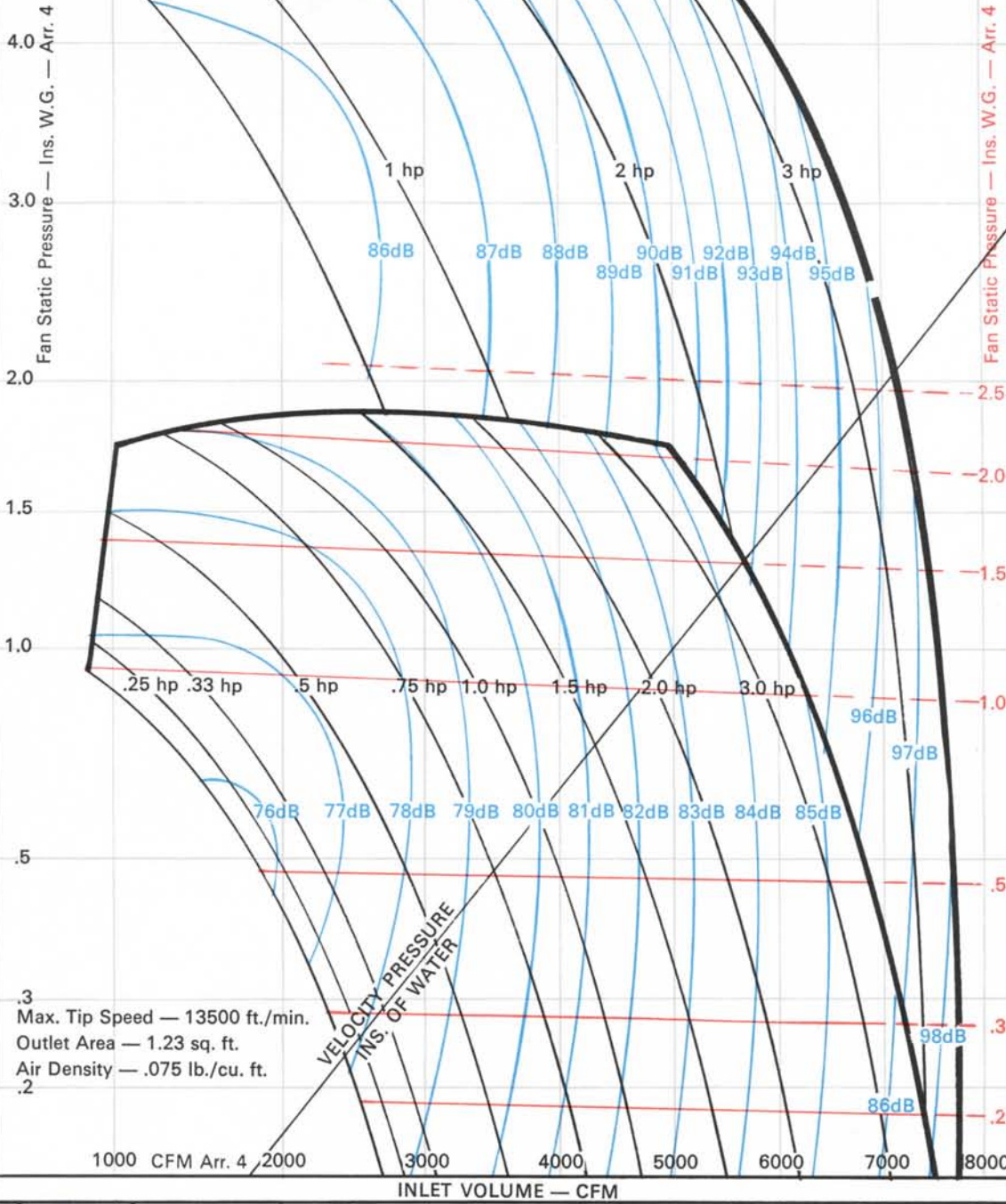
SP Regain using Outlet Cone — Ins. wg.

.1 .2 .3 .4 .5 .6 .7

SIZE AF-15
3450 rpm.

VANE AXIAL

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)



Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

3450 rpm
3150 rpm
2850 rpm
2550 rpm
2250 rpm
1950 rpm



1950 rpm
2250 rpm
2550 rpm
2850 rpm
3150 rpm
3450 rpm

3450 rpm
3150 rpm
2850 rpm
2550 rpm
2250 rpm
1950 rpm

TABLE 1 HP/SPEED CORRECTION CHART

1950						
2250						
2550						
2850						
3150						
3450						
	0	.5	1	2	3	4

Diagonal lines represent horsepower ratings: .5 HP, 1 HP, 2 HP, 3 HP, 4 HP.

TABLE 2

Sound Level Correction for Speed	3450	3150	2850	2550	2250	1950
dB	0	-2	-4	-7	-9	-12

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Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-12	-9	-6	-6	-7	-10	-15	-21

TUBE AXIAL

SP Regain using Outlet Cone — Ins. wg.

.01 .02 .03 .04 .05 .06

VANE AXIAL

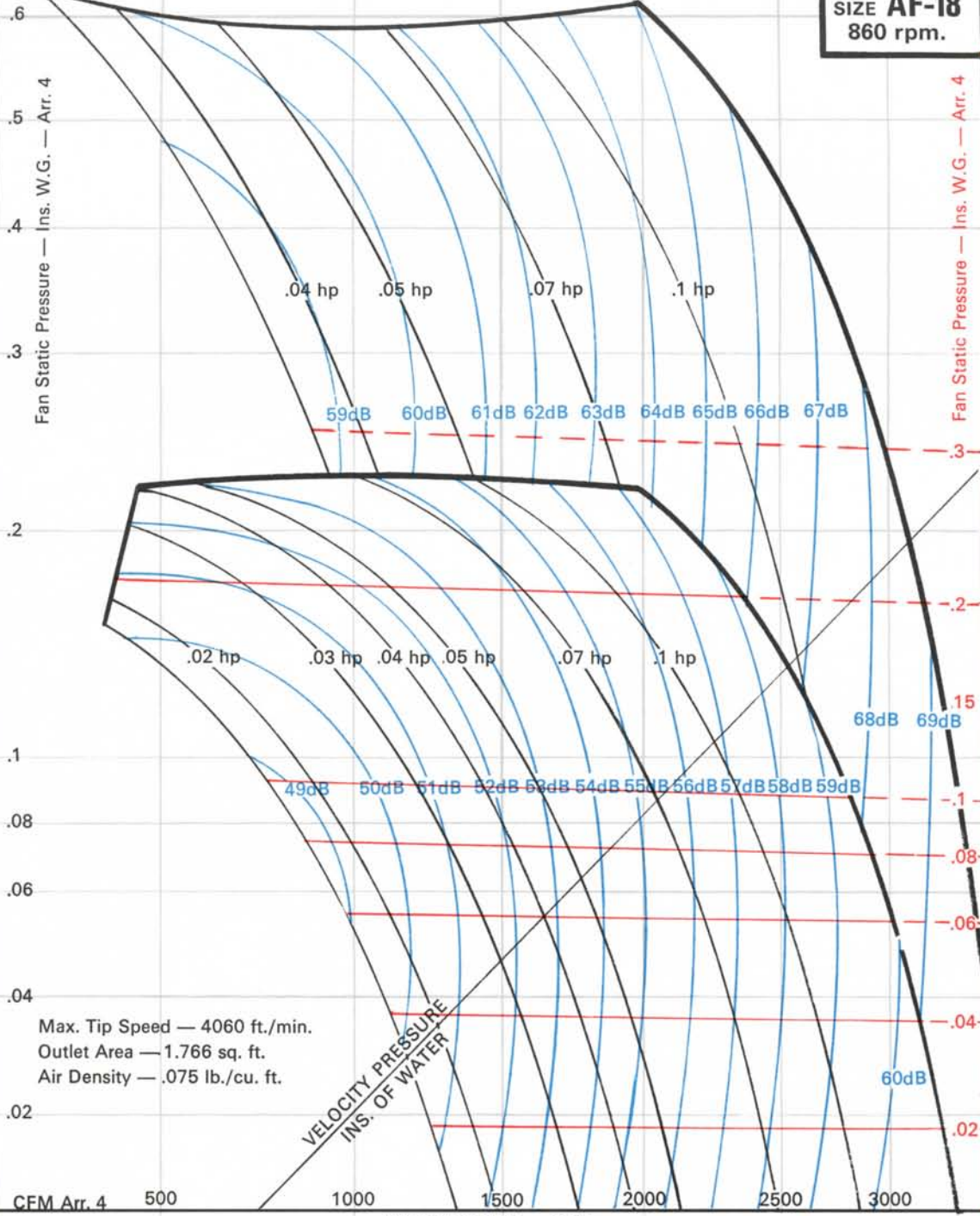
SIZE **AF-18**
860 rpm.

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

Fan Static Pressure — Ins. W.G. — Arr. 4

Fan Static Pressure — Ins. W.G. — Arr. 4

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)



860 rpm
830 rpm
800 rpm
770 rpm
740 rpm
710 rpm



860 rpm
830 rpm
800 rpm
770 rpm
740 rpm
710 rpm

710 rpm
740 rpm
770 rpm
800 rpm
830 rpm
860 rpm

TABLE 1 HP/SPEED CORRECTION CHART

710					
740					
770					
800					
830					
860					
	0	.025	.05	.075	.10

TABLE 2

Sound Level Correction for Speed	860	830	800	770	740	710
dB	0	-1	-1	-2	-3	-4

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Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-5	-5	-6	-7	-10	-15	-22	-28

TUBE AXIAL

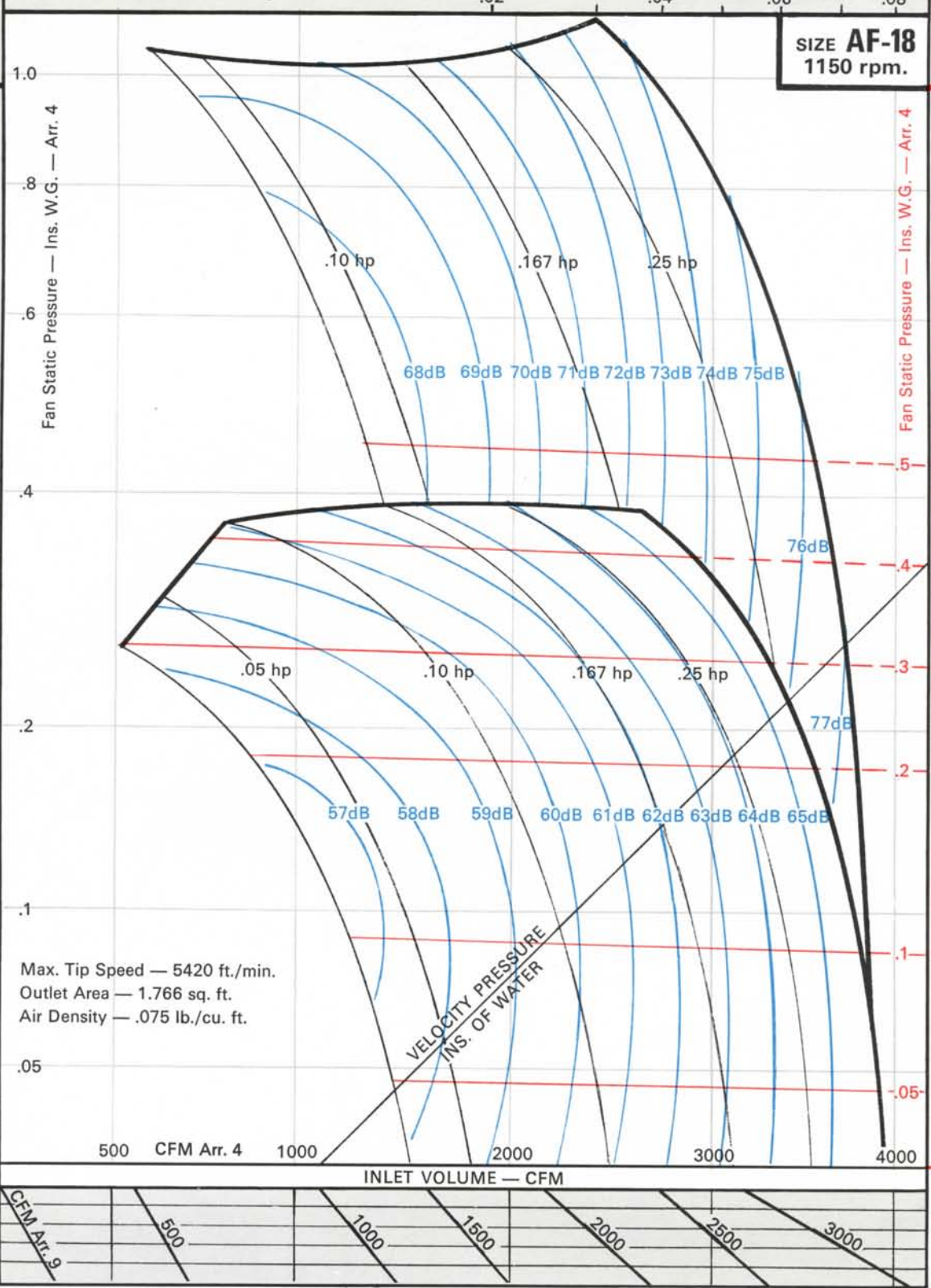
Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

SP Regain using Outlet Cone — Ins. wg.

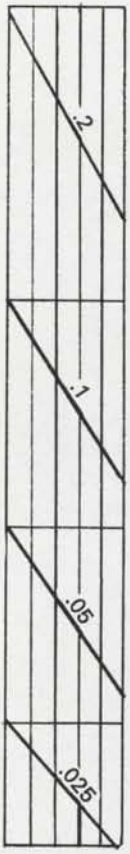
SIZE AF-18
1150 rpm.

VANE AXIAL

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)



Max. Tip Speed — 5420 ft./min.
Outlet Area — 1.766 sq. ft.
Air Density — .075 lb./cu. ft.



900 rpm
950 rpm
1000 rpm
1050 rpm
1100 rpm
1150 rpm

1150 rpm
1100 rpm
1050 rpm
1000 rpm
950 rpm
900 rpm

TABLE 1 HP/SPEED CORRECTION CHART

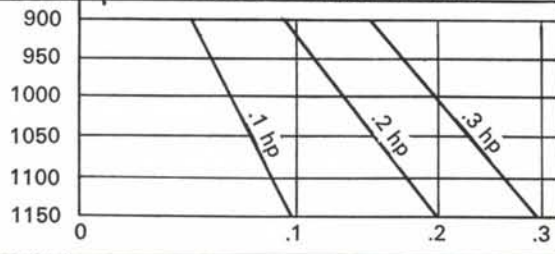


TABLE 2

Sound Level Correction for Speed	1150	1100	1050	1000	950	900
dB	0	-1	-2	-3	-4	-5

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Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-8	-6	-6	-7	-8	-12	-18	-24

TUBE AXIAL

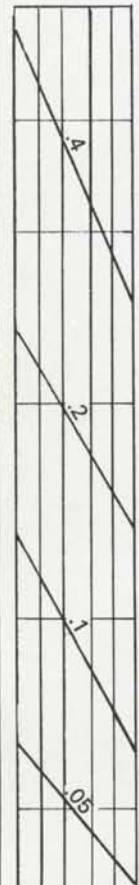
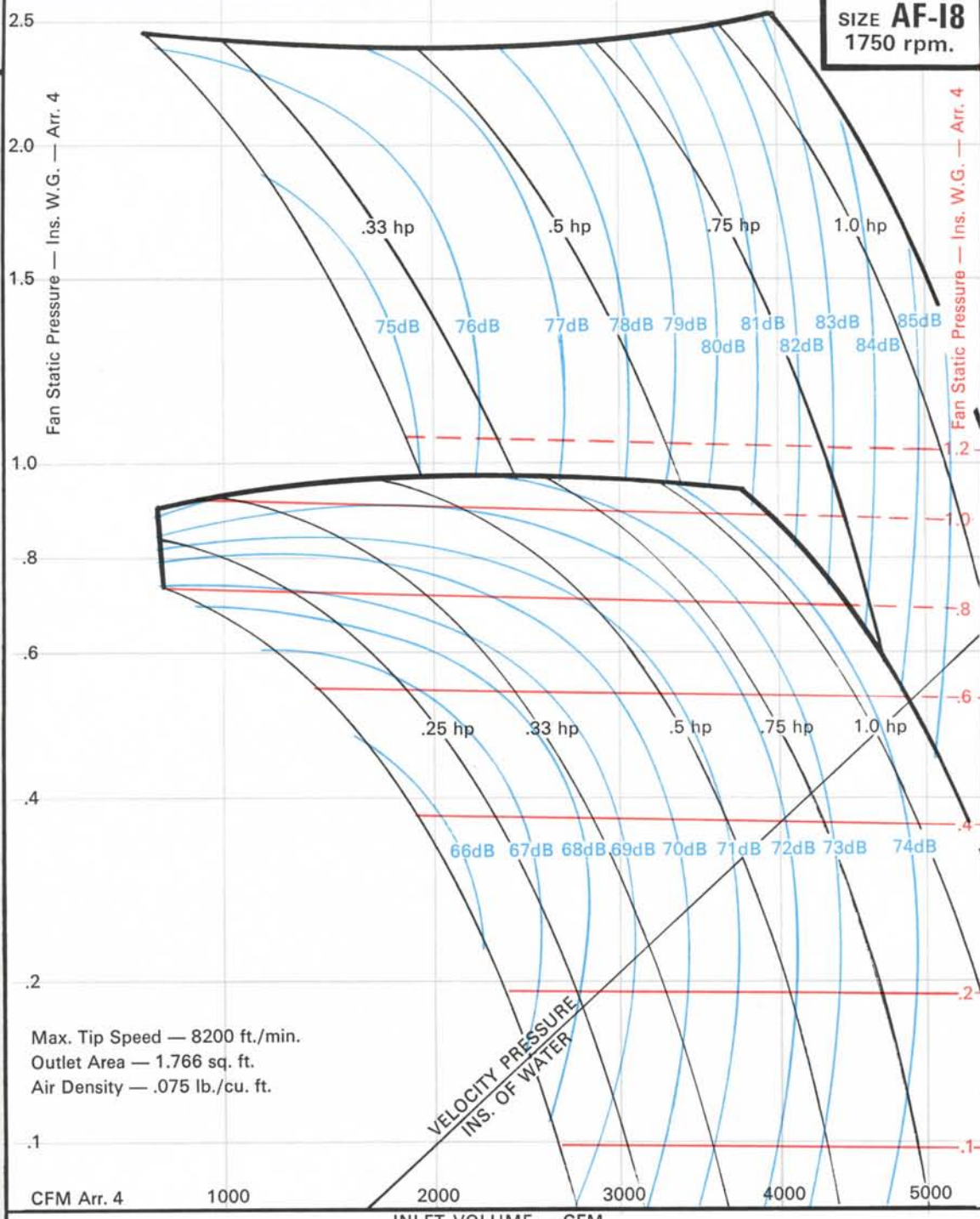
Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

SP Regain using Outlet Cone — Ins. wg. .02 .04 .06 .08 .1 .12 .14

SIZE **AF-18**
1750 rpm.

VANE AXIAL

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)



1250 rpm
1350 rpm
1450 rpm
1550 rpm
1650 rpm
1750 rpm

TABLE 1 HP/SPEED CORRECTION CHART

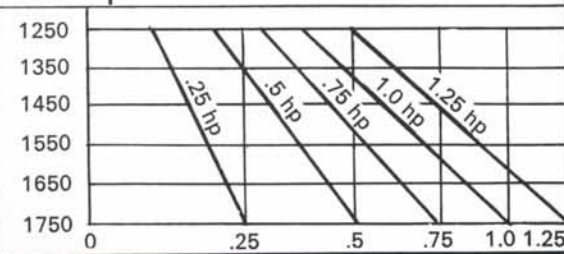


TABLE 2

Sound Level Correction for Speed	1750	1650	1550	1450	1350	1250
dB	0	-1	-2	-4	-6	-8

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TABLE 3

Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-9	-7	-5	-6	-8	-10	-18	-24

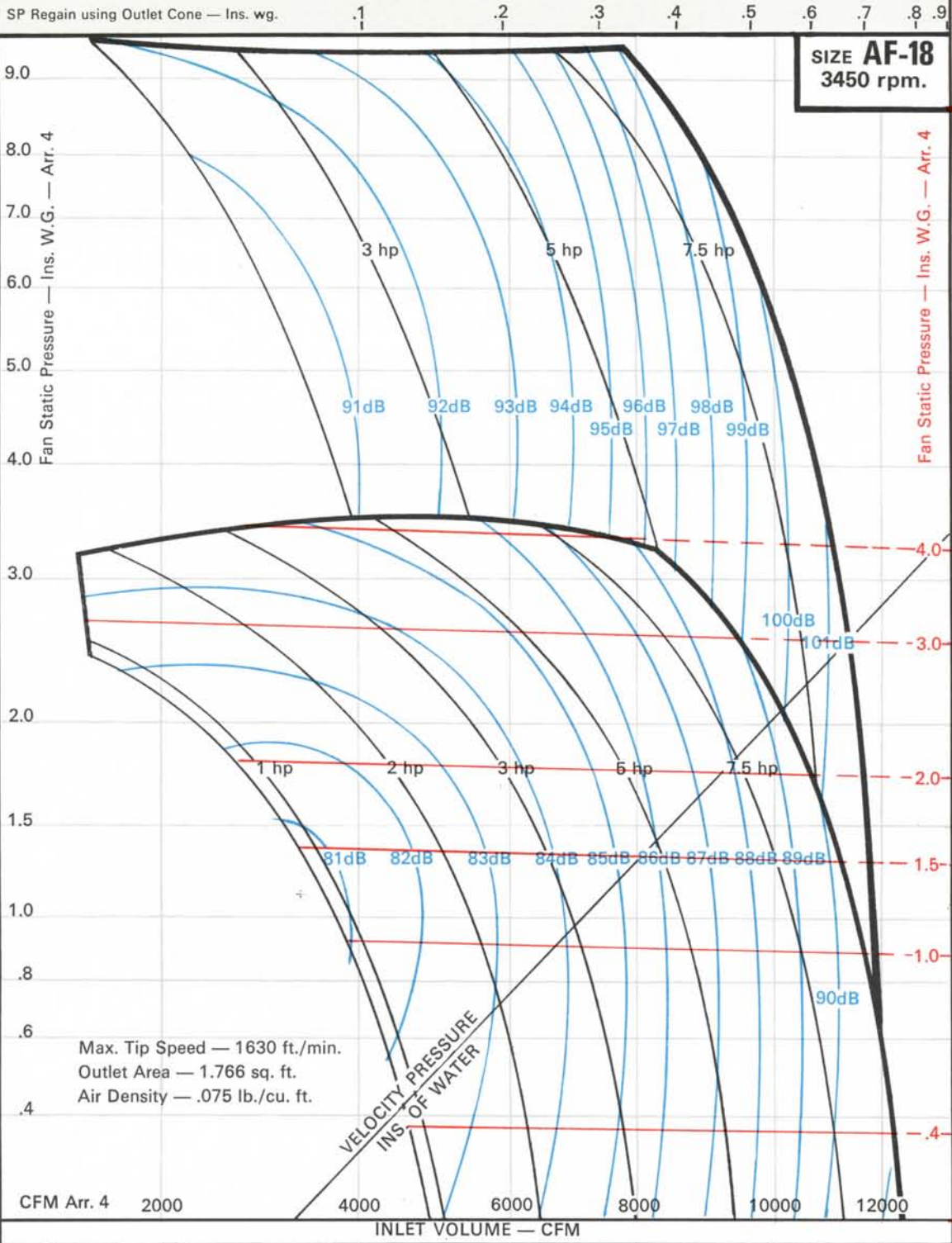
TUBE AXIAL

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

18 / 3450 REV. 1

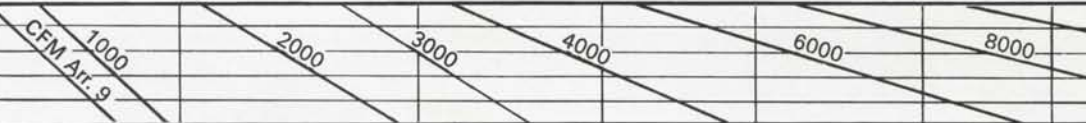


1950 rpm
2250 rpm
2550 rpm
2850 rpm
3150 rpm
3450 rpm



CFM Arr. 4 2000 4000 6000 8000 10000 12000

INLET VOLUME — CFM



CFM Arr. 9 1000 2000 3000 4000 6000 8000

VANE AXIAL

SIZE AF-18
3450 rpm.

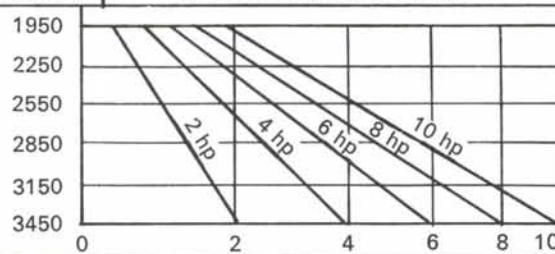
Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

3450 rpm
3150 rpm
2850 rpm
2550 rpm
2250 rpm
1950 rpm



3450 rpm
3150 rpm
2850 rpm
2550 rpm
2250 rpm
1950 rpm

TABLE 1 HP/SPEED CORRECTION CHART



Sound Level Correction for Speed	3450	3150	2850	2550	2250	1950
dB	0	-2	-4	-7	-9	-12

The performance chart has been arranged to provide ratings for both Direct-driven and Belt driven, Tube and Vaneaxial fans. For details of a sample selection method refer to page 6.

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Spectrum	dB	-12	-9	-6	-6	-7	-10	-15	-20

TUBE AXIAL

SP Regain using Outlet Cone — Ins. wg.

.005

.01

.02

.03

SIZE **AF-21**
700 rpm.

VANE AXIAL

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

Fan Static Pressure — Ins. W.G. — Arr. 4

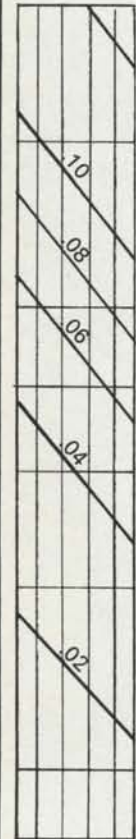
Fan Static Pressure — Ins. W.G. — Arr. 4

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

Max. Tip Speed — 3850 ft./min
Outlet Area — 2.40 sq. ft.
Air Density — .075 lb./cu. ft.

VELOCITY PRESSURE
INS. OF WATER

CFM Arr. 4 500 1000 1500 2000 2500 3000 3500
INLET VOLUME — CFM



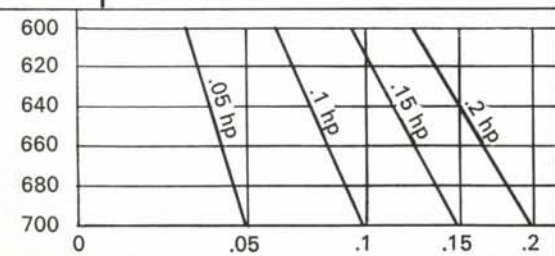
700 rpm
680 rpm
660 rpm
640 rpm
620 rpm
600 rpm



600 rpm
620 rpm
640 rpm
660 rpm
680 rpm
700 rpm

700 rpm
680 rpm
660 rpm
640 rpm
620 rpm
600 rpm

TABLE 1 HP/SPEED CORRECTION CHART



Sound Level Correction for Speed	700	680	660	640	620	600
dB	0	-1	-1	-2	-3	-4

The performance chart has been arranged to provide ratings for both Direct-driven and Belt driven, Tube and Vaneaxial fans. For details of a sample selection method refer to page 6.

NB: Belt Driven Ratings Corrected for Belt Guard Losses

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The fan horsepower contours relate to the HP taken by each impeller, and for contra-rotating fans shown in the upper envelope give the maximum HP taken by each stage. The contours of sound level relate to the average Sound Pressure Level (Lp) in dB, re .0002 dynes/cm². The corresponding Sound Power Level (Lw) re 10⁻¹² watts is 15 dB higher.

Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-6	-5	-6	-7	-9	-12	-20	-26

TUBE AXIAL

SP Regain using Outlet Cone — Ins. wg.

.01 .02 .03 .04 .05 .06

SIZE **AF-21**
860 rpm.

VANE AXIAL

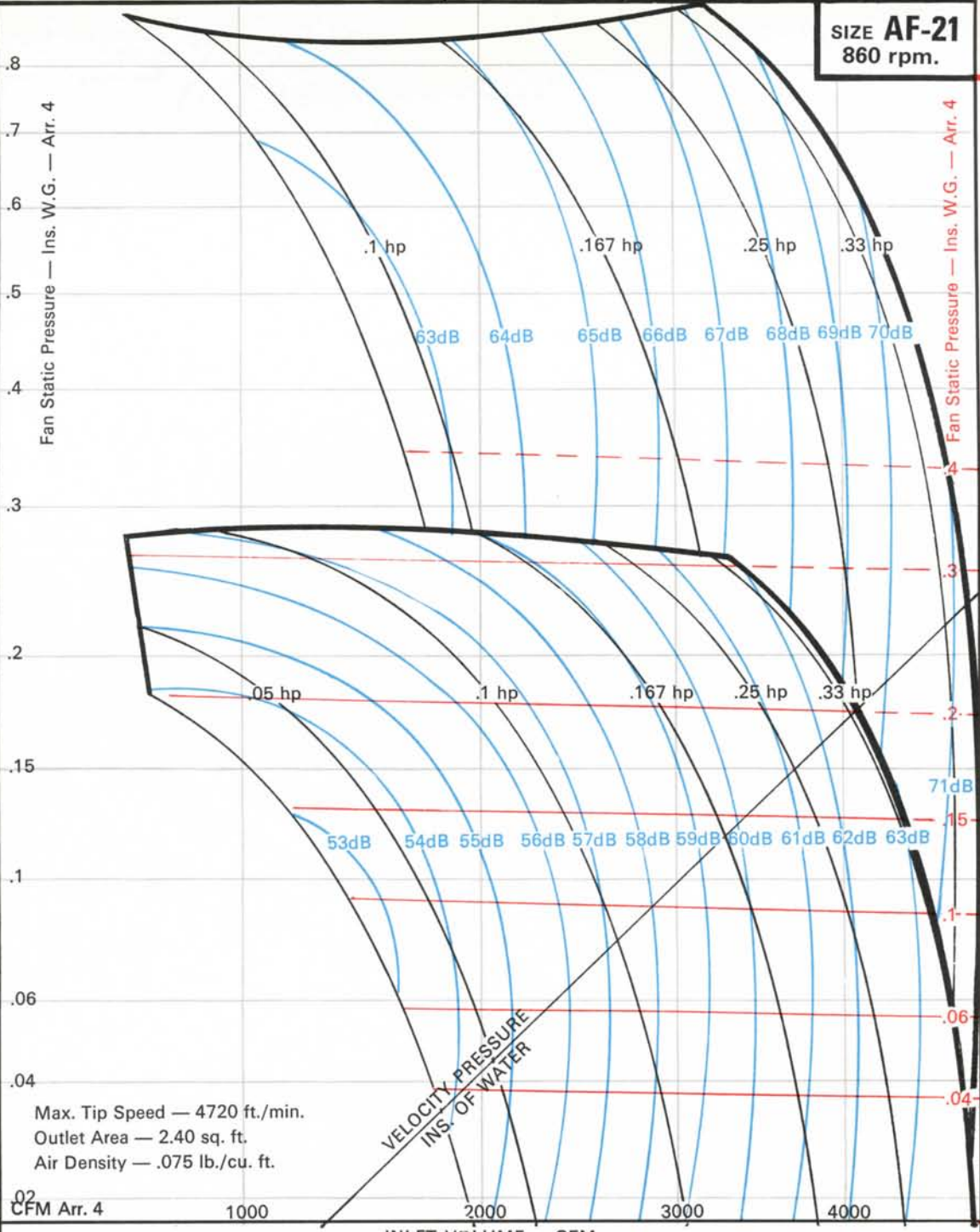
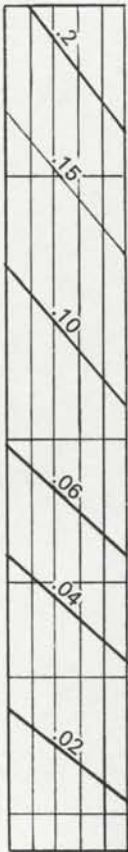
Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

Fan Static Pressure — Ins. W.G. — Arr. 4

Fan Static Pressure — Ins. W.G. — Arr. 4

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

860 rpm
830 rpm
800 rpm
770 rpm
740 rpm
710 rpm



Max. Tip Speed — 4720 ft./min.
Outlet Area — 2.40 sq. ft.
Air Density — .075 lb./cu. ft.

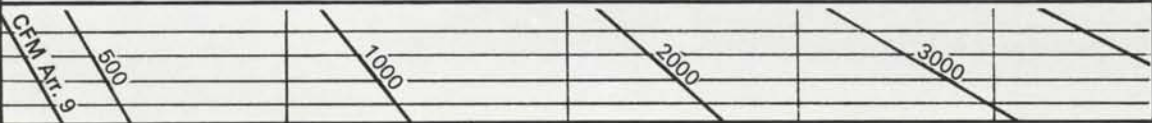
VELOCITY PRESSURE
INS. OF WATER

CFM Arr. 4 1000 2000 3000 4000

INLET VOLUME — CFM



710 rpm
740 rpm
770 rpm
800 rpm
830 rpm
860 rpm



860 rpm
830 rpm
800 rpm
770 rpm
740 rpm
710 rpm

TABLE 1 HP/SPEED CORRECTION CHART

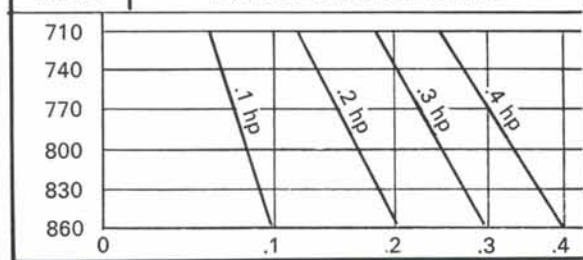


TABLE 2

Sound Level Correction for Speed	860	830	800	770	740	710
dB	0	-1	-1	-2	-3	-4

The performance chart has been arranged to provide ratings for both Direct-driven and Belt driven, Tube and Vaneaxial fans. For details of a sample selection method refer to page 6.

NB: Belt Driven Ratings Corrected for Belt Guard Losses

The range of performance is obtained by variations in number of blades and blade angle, the actual values of which are chosen by our Sales office on receipt of a specific duty.

The fan horsepower contours relate to the HP taken by each impeller, and for contra-rotating fans shown in the upper envelope give the maximum HP taken by each stage. The contours of sound level relate to the average Sound Pressure Level (Lp) in dB, re .0002 dynes/cm². The corresponding Sound Power Level (Lw) re 10⁻¹² watts is 15 dB higher.

TABLE 3

Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-6	-5	-6	-7	-9	-12	-20	-26

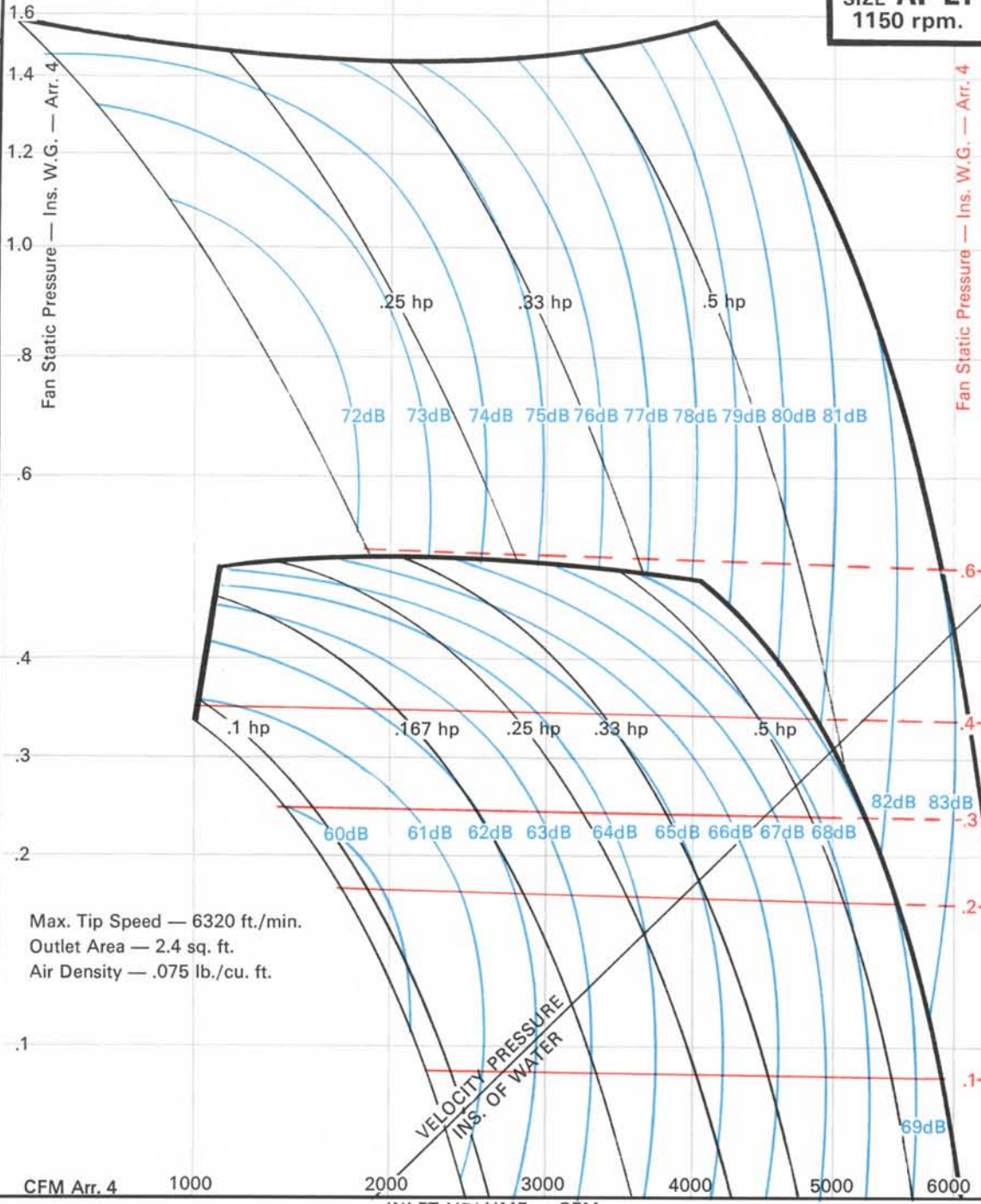
TUBE AXIAL

SP Regain using Outlet Cone — Ins. wg. .02 .04 .06 .08 .10 .12

SIZE **AF-21**
1150 rpm.

VANE AXIAL

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)



Max. Tip Speed — 6320 ft./min.
Outlet Area — 2.4 sq. ft.
Air Density — .075 lb./cu. ft.

VELOCITY PRESSURE
INS. OF WATER

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

1150 rpm
1100 rpm
1050 rpm
1000 rpm
950 rpm
900 rpm



1150 rpm
1100 rpm
1050 rpm
1000 rpm
950 rpm
900 rpm

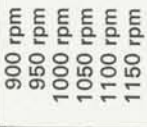
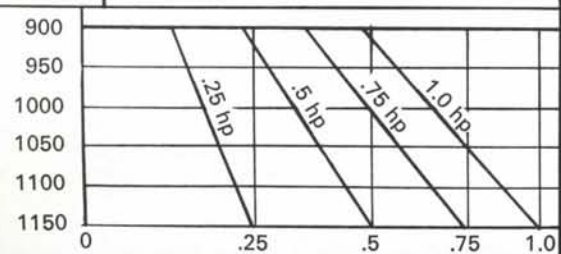


TABLE 1 HP/SPEED CORRECTION CHART



Sound Level Correction for Speed	1150	1100	1050	1000	950	900
dB	0	-1	-2	-3	-4	-5

The performance chart has been arranged to provide ratings for both Direct-driven and Belt driven, Tube and Vaneaxial fans. For details of a sample selection method refer to page 6.

NB: Belt Driven Ratings Corrected for Belt Guard Losses

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Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-7	-6	-6	-7	-8	-12	-18	-24

TUBE AXIAL

SP Regain using Outlet Cone — Ins. wg. .05 .1 .2 .3 .4

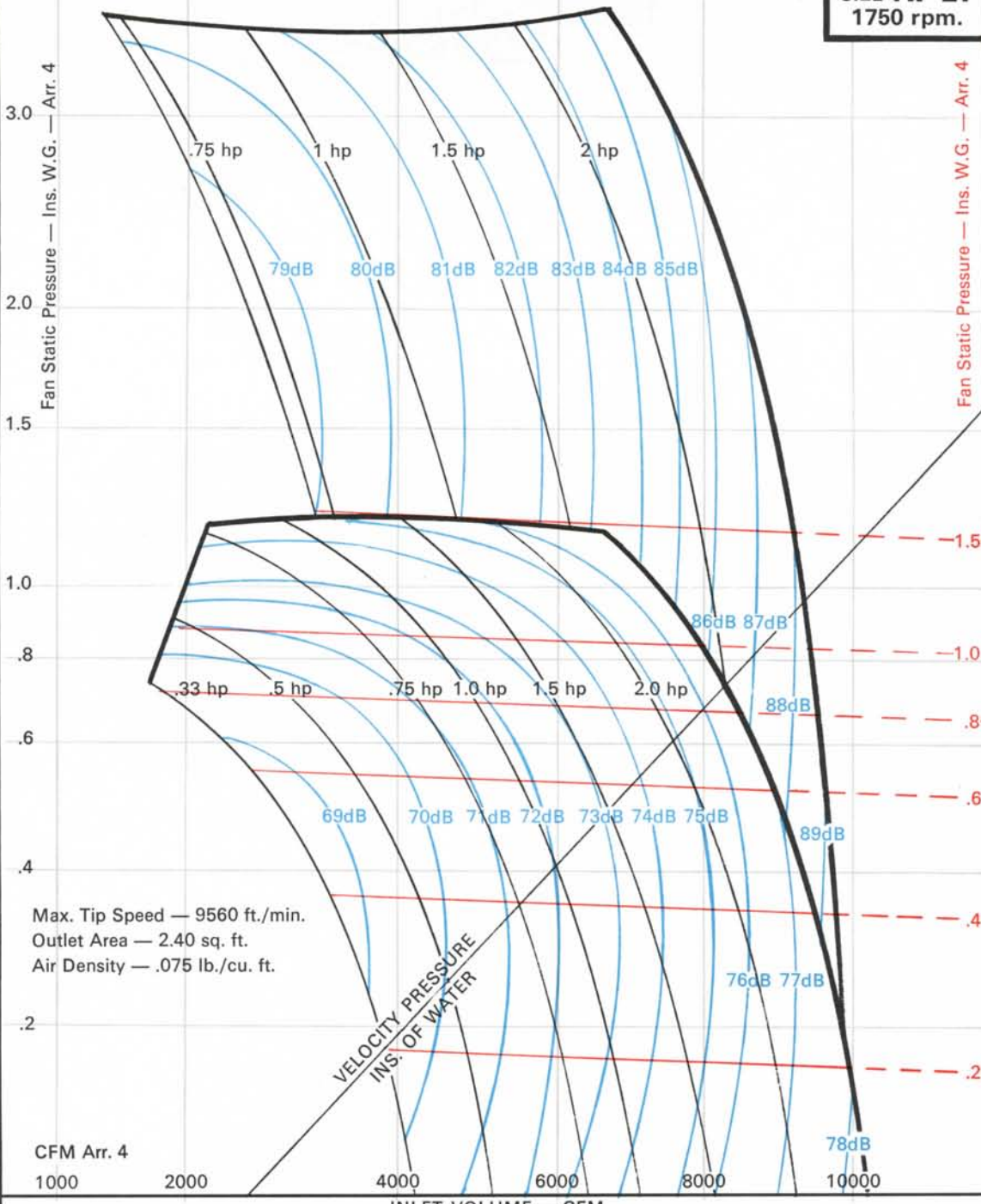
SIZE **AF-21**
1750 rpm.

VANE AXIAL

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

1750 rpm
1650 rpm
1550 rpm
1450 rpm
1350 rpm
1250 rpm



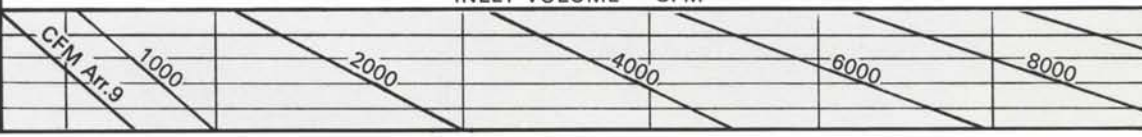
Max. Tip Speed — 9560 ft./min.
Outlet Area — 2.40 sq. ft.
Air Density — .075 lb./cu. ft.

CFM Arr. 4
1000 2000 4000 6000 8000 10000

INLET VOLUME — CFM



1250 rpm
1350 rpm
1450 rpm
1550 rpm
1650 rpm
1750 rpm



1750 rpm
1650 rpm
1550 rpm
1450 rpm
1350 rpm
1250 rpm

TABLE 1 HP/SPEED CORRECTION CHART

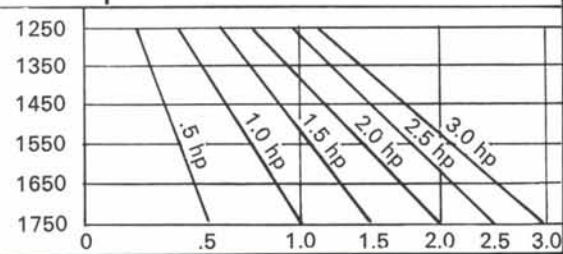


TABLE 2

Sound Level Correction for Speed	1750	1650	1550	1450	1350	1250
dB	0	-1	-2	-4	-6	-8

The performance chart has been arranged to provide ratings for both Direct-driven and Belt driven, Tube and Vaneaxial fans. For details of a sample selection method refer to page 6.

NB: Belt Driven Ratings Corrected for Belt Guard Losses
The range of performance is obtained by variations in number of blades and blade angle, the actual values of which are chosen by our Sales office on receipt of a specific duty.

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TABLE 3

Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-9	-7	-5	-6	-8	-10	-18	-24

TUBE AXIAL

SP Regain using Outlet Cone — Ins. wg.

.01

.02

.03

.04

.05

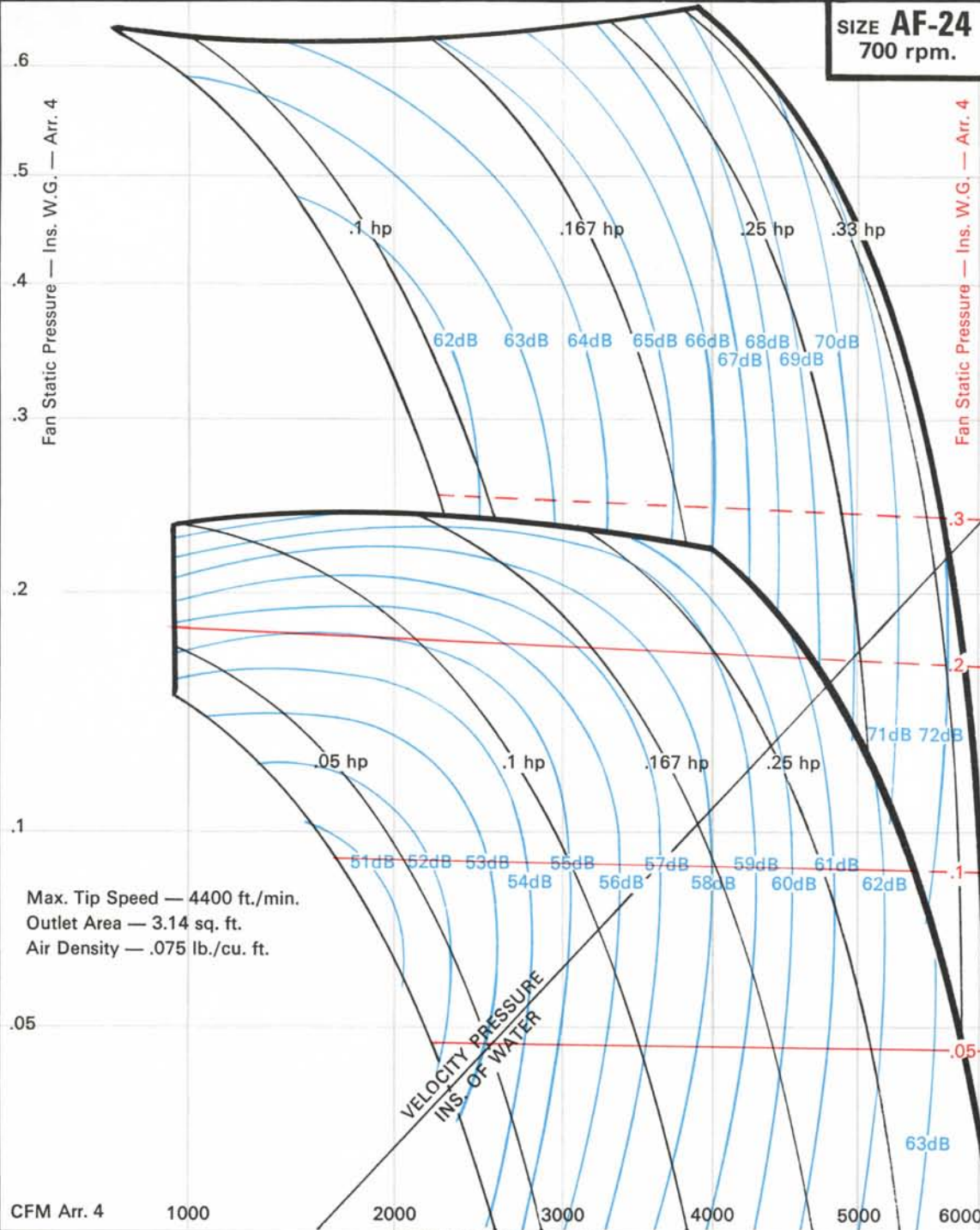
.06

SIZE AF-24
700 rpm.

VANE AXIAL

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)



600 rpm	620 rpm	640 rpm	660 rpm	680 rpm	700 rpm
---------	---------	---------	---------	---------	---------

700 rpm	680 rpm	660 rpm	640 rpm	620 rpm	600 rpm
---------	---------	---------	---------	---------	---------

HP	700	680	660	640	620	600
0.05 hp	0.05	0.05	0.05	0.05	0.05	0.05
.1 hp	0.1	0.1	0.1	0.1	0.1	0.1
.2 hp	0.2	0.2	0.2	0.2	0.2	0.2
.3 hp	0.3	0.3	0.3	0.3	0.3	0.3
.4 hp	0.4	0.4	0.4	0.4	0.4	0.4

Speed	700	680	660	640	620	600
Correction	0	-1	-1	-2	-3	-4

The performance chart has been arranged to provide ratings for both Direct-driven and Belt driven, Tube and Vaneaxial fans. For details of a sample selection method refer to page 6.
NB: Belt Driven Ratings Corrected for Belt Guard Losses
The range of performance is obtained by variations in number of blades and blade angle, the actual values of which are chosen by our Sales office on receipt of a specific duty.
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Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-6	-5	-6	-7	-9	-12	-20	-26

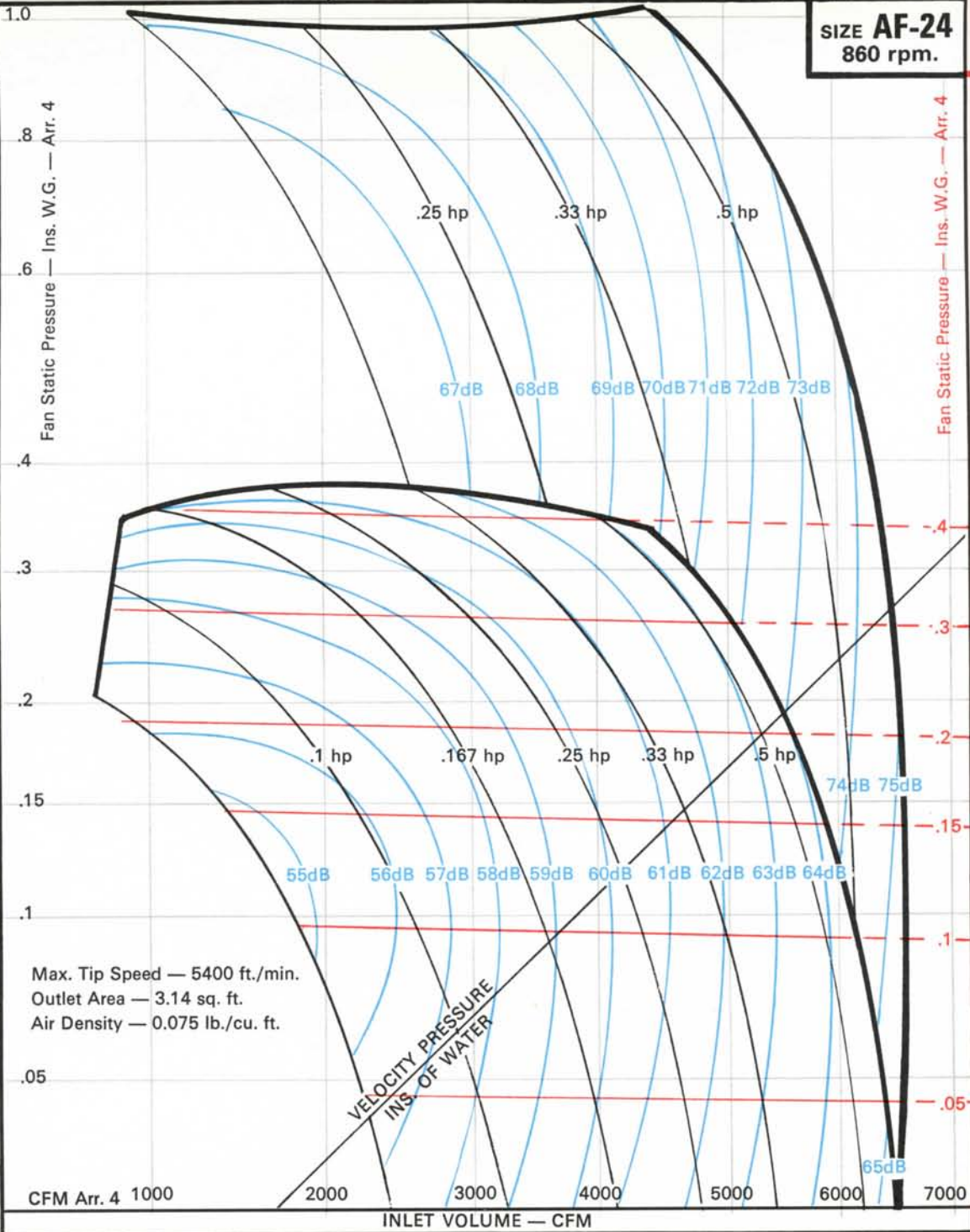
TUBE AXIAL

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)



710 rpm
740 rpm
770 rpm
800 rpm
830 rpm
860 rpm

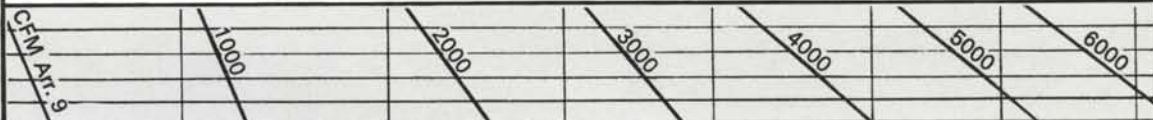
SP Regain using Outlet Cone — Ins. wg. .01 .02 .03 .04 .05 .06 .07 .08



Max. Tip Speed — 5400 ft./min.
Outlet Area — 3.14 sq. ft.
Air Density — 0.075 lb./cu. ft.

VELOCITY PRESSURE
INS. OF WATER

CFM Arr. 4 1000 2000 3000 4000 5000 6000 7000
INLET VOLUME — CFM



CFM Arr. 9
1000
2000
3000
4000
5000
6000

VANE AXIAL

SIZE AF-24
860 rpm.

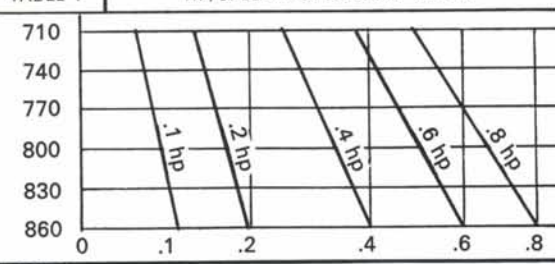
Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

860 rpm
830 rpm
800 rpm
770 rpm
740 rpm
710 rpm



860 rpm
830 rpm
800 rpm
770 rpm
740 rpm
710 rpm

TABLE 1 HP/SPEED CORRECTION CHART



Speed (rpm)	860	830	800	770	740	710
dB	0	-1	-1	-2	-3	-4

The performance chart has been arranged to provide ratings for both Direct-driven and Belt driven, Tube and Vaneaxial fans. For details of a sample selection method refer to page 6.

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Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-6	-5	-6	-7	-9	-12	-20	-26

TUBE AXIAL

SP Regain using Outlet Cone — Ins. wg.

.02

.04

.06

.08

.10

.12

.14

SIZE AF-24
1150 rpm.

VANE AXIAL

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

Fan Static Pressure — Ins. W.G. — Arr. 4

Fan Static Pressure — Ins. W.G. — Arr. 4

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

1.5

1.0

.8

.6

.4

.3

.2

.1

Max. Tip Speed — 7230 ft./min.
Outlet Area — 3.14 sq. ft.
Air Density — .075 lb./cu. ft.

CFM Arr. 4
1000

2000

3000

4000

5000

6000

7000

8000

9000

VELOCITY PRESSURE
INS. OF WATER

INLET VOLUME — CFM

900 rpm

950 rpm

1000 rpm

1050 rpm

1100 rpm

1150 rpm

CFM Arr. 9

1000

2000

3000

4000

5000

6000

7000

1150 rpm

1100 rpm

1050 rpm

1000 rpm

950 rpm

900 rpm

.6

.5

.4

.3

.2

.1

.05

1150 rpm

1100 rpm

1050 rpm

1000 rpm

950 rpm

900 rpm

900 rpm

950 rpm

1000 rpm

1050 rpm

1100 rpm

1150 rpm

CFM Arr. 9

1000

2000

3000

4000

5000

6000

7000

1150 rpm

1100 rpm

1050 rpm

1000 rpm

950 rpm

900 rpm

TABLE 1 HP/SPEED CORRECTION CHART

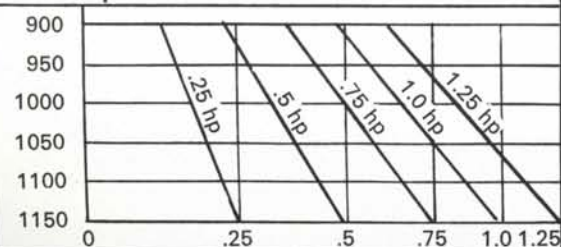


TABLE 2 Sound Level Correction for Speed

Speed (rpm)	1150	1100	1050	1000	950	900
dB	0	-1	-2	-3	-4	-5

The performance chart has been arranged to provide ratings for both Direct-driven and Belt driven, Tube and Vaneaxial fans. For details of a sample selection method refer to page 6.

NB: Belt Driven Ratings Corrected for Belt Guard Losses

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TABLE 3

Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-7	-6	-6	-7	-8	-12	-18	-24

TUBE AXIAL

SP Regain using Outlet Cone — Ins. wg.

.05

.1

.2

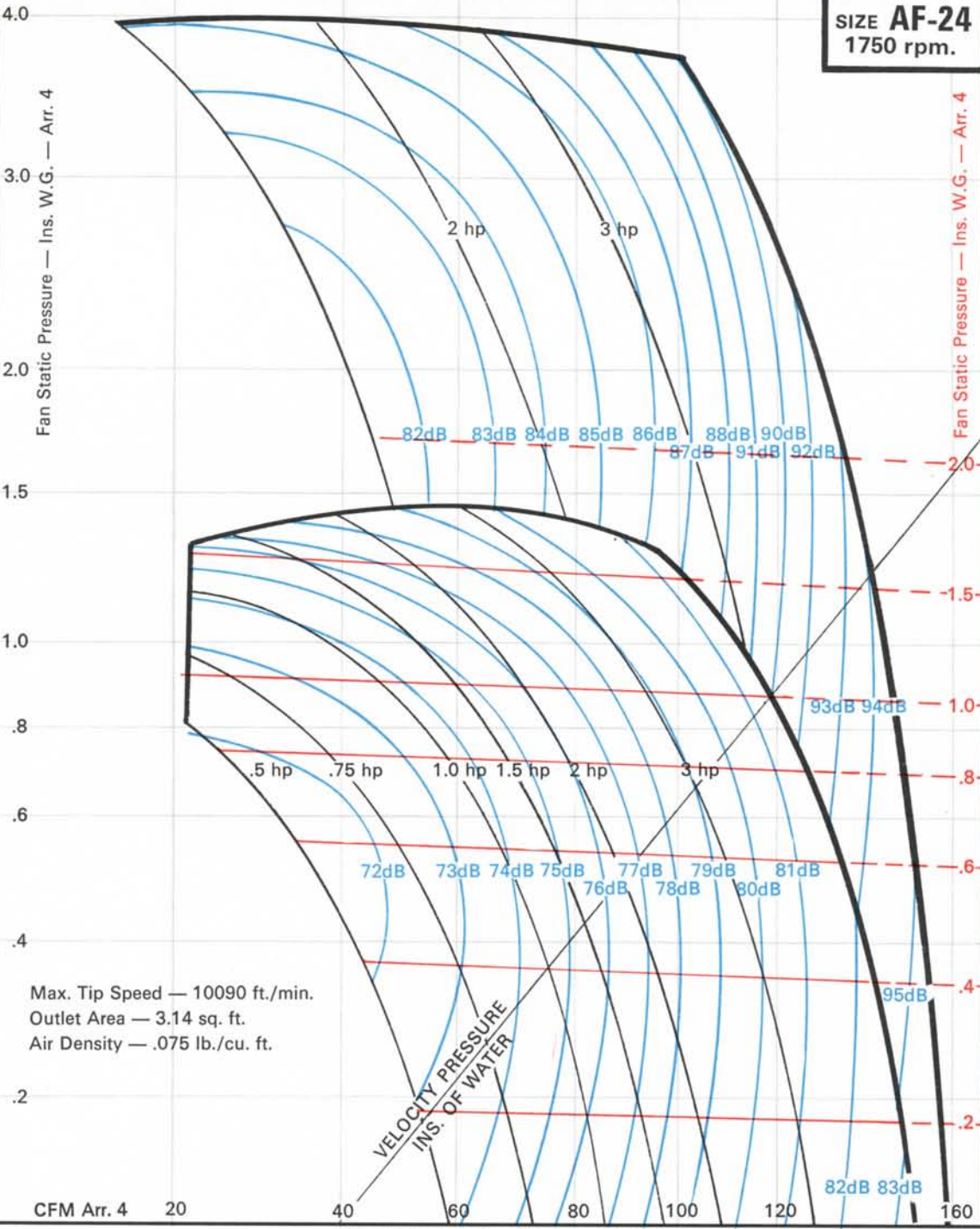
.3

.4

SIZE AF-24
1750 rpm.

VANE AXIAL

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

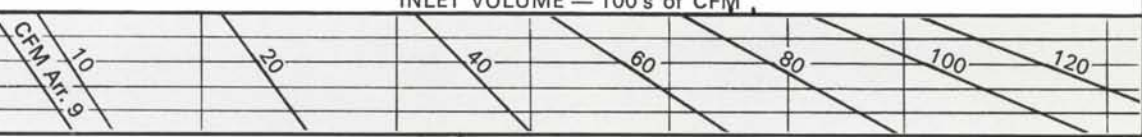


Fan Static Pressure — Ins. W.G. — Arr. 4
1750 rpm
1650 rpm
1550 rpm
1450 rpm
1350 rpm
1250 rpm

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)



1250 rpm
1350 rpm
1450 rpm
1550 rpm
1650 rpm
1750 rpm



1750 rpm
1650 rpm
1550 rpm
1450 rpm
1350 rpm
1250 rpm

TABLE 1 HP/SPEED CORRECTION CHART

	0	.5	1	2	3	4	5
1250							
1350							
1450							
1550							
1650							
1750							
		.5 hp	1 hp	2 hp	3 hp	4 hp	5 hp

TABLE 2

Sound Level Correction for Speed	1750	1650	1550	1450	1350	1250
dB	0	-1	-2	-4	-6	-8

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TABLE 3

Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-10	-7	-5	-6	-8	-10	-18	-24

TUBE AXIAL

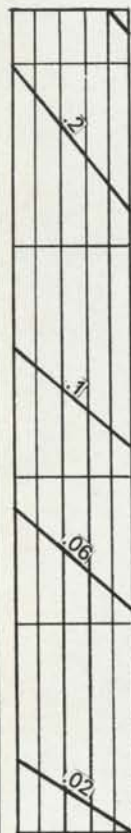
SP Regain using Outlet Cone — Ins. wg.

.01 .02 .03 .04 .05 .06 .07

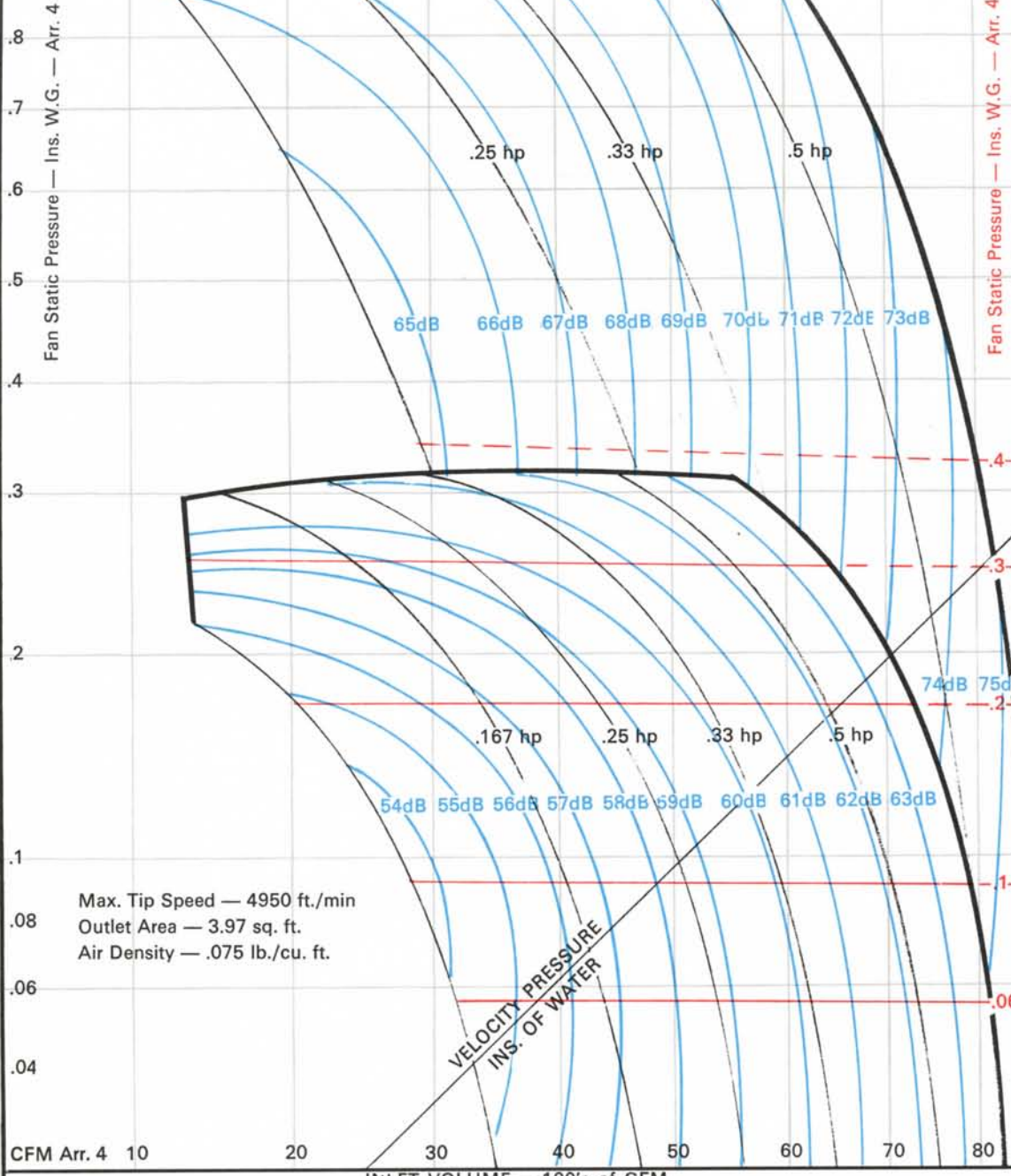
VANE AXIAL

SIZE **AF-27**
700 rpm.

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)



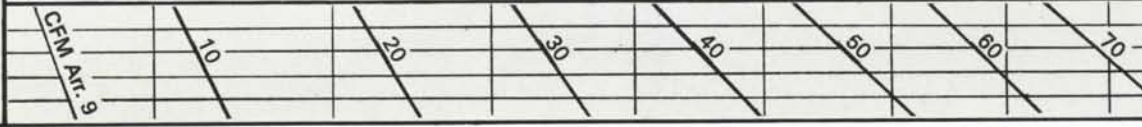
600 rpm
620 rpm
640 rpm
660 rpm
680 rpm
700 rpm



Max. Tip Speed — 4950 ft./min
Outlet Area — 3.97 sq. ft.
Air Density — .075 lb./cu. ft.

VELOCITY PRESSURE
INS. OF WATER

CFM Arr. 4 10 20 30 40 50 60 70 80



CFM Arr. 9

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

700 rpm
680 rpm
660 rpm
640 rpm
620 rpm
600 rpm



700 rpm
680 rpm
660 rpm
640 rpm
620 rpm
600 rpm

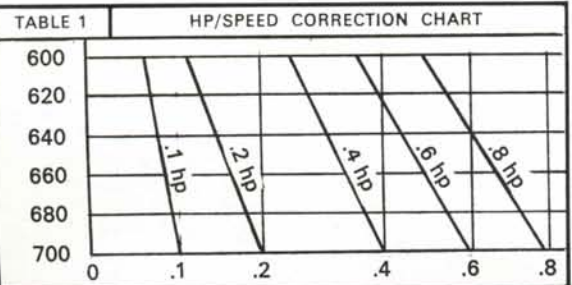


TABLE 2

Sound Level Correction for Speed	700	680	660	640	620	600
dB	0	-1	-1	-2	-3	-4

The performance chart has been arranged to provide ratings for both Direct-driven and Belt driven, Tube and Vaneaxial fans. For details of a sample selection method refer to page 6.
NB: Belt Driven Ratings Corrected for Belt Guard Losses
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TABLE 3

Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-6	-5	-6	-7	-9	-12	-20	-26

TUBE AXIAL

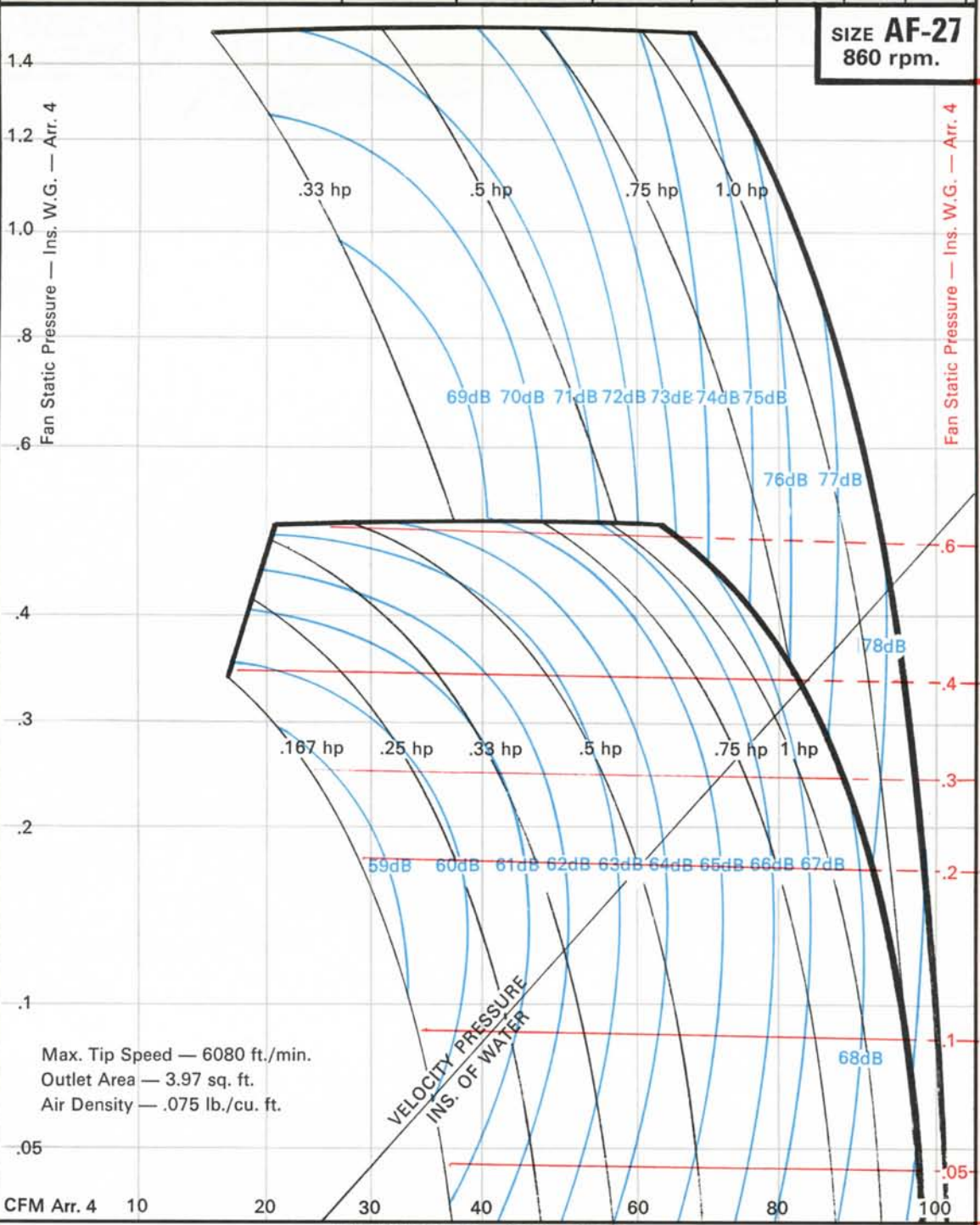
Belt Driven Fan — Arr. 9
 Static Pressure — Ins. W.G.
 (Applies to Single Stage Only)

SP Regain using Outlet Cone — Ins. wg. .01 .02 .04 .06 .08 .1 .12 .14

SIZE **AF-27**
 860 rpm.

VANE AXIAL

Belt Driven Fan — Arr. 9
 Static Pressure — Ins. W.G.
 (Applies to Single Stage Only)



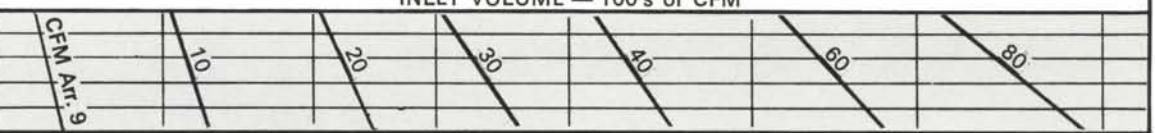
Max. Tip Speed — 6080 ft./min.
 Outlet Area — 3.97 sq. ft.
 Air Density — .075 lb./cu. ft.



710 rpm
 740 rpm
 770 rpm
 800 rpm
 830 rpm
 860 rpm

CFM Arr. 4 10 20 30 40 60 80 100

INLET VOLUME — 100's of CFM



860 rpm
 830 rpm
 800 rpm
 770 rpm
 740 rpm
 710 rpm

TABLE 1 HP/SPEED CORRECTION CHART

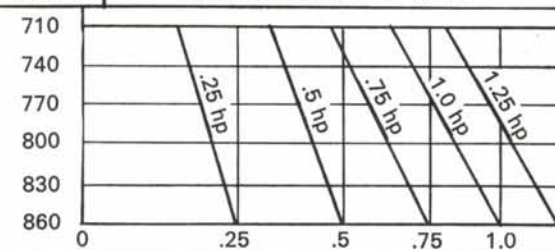


TABLE 2

Sound Level Correction for Speed	860	830	800	770	740	710
dB	0	-1	-1	-2	-3	-4

The performance chart has been arranged to provide ratings for both Direct-driven and Belt driven, Tube and Vaneaxial fans. For details of a sample selection method refer to page 6.

NB: Belt Driven Ratings Corrected for Belt Guard Losses

The range of performance is obtained by variations in number of blades and blade angle, the actual values of which are chosen by our Sales office on receipt of a specific duty.

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TABLE 3

Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-6	-5	-6	-7	-9	-12	-20	-28

TUBE AXIAL

SP Regain using Outlet Cone — Ins. wg. .02 .04 .06 .08 .1 .15 .2

SIZE **AF-27**
1150 rpm.

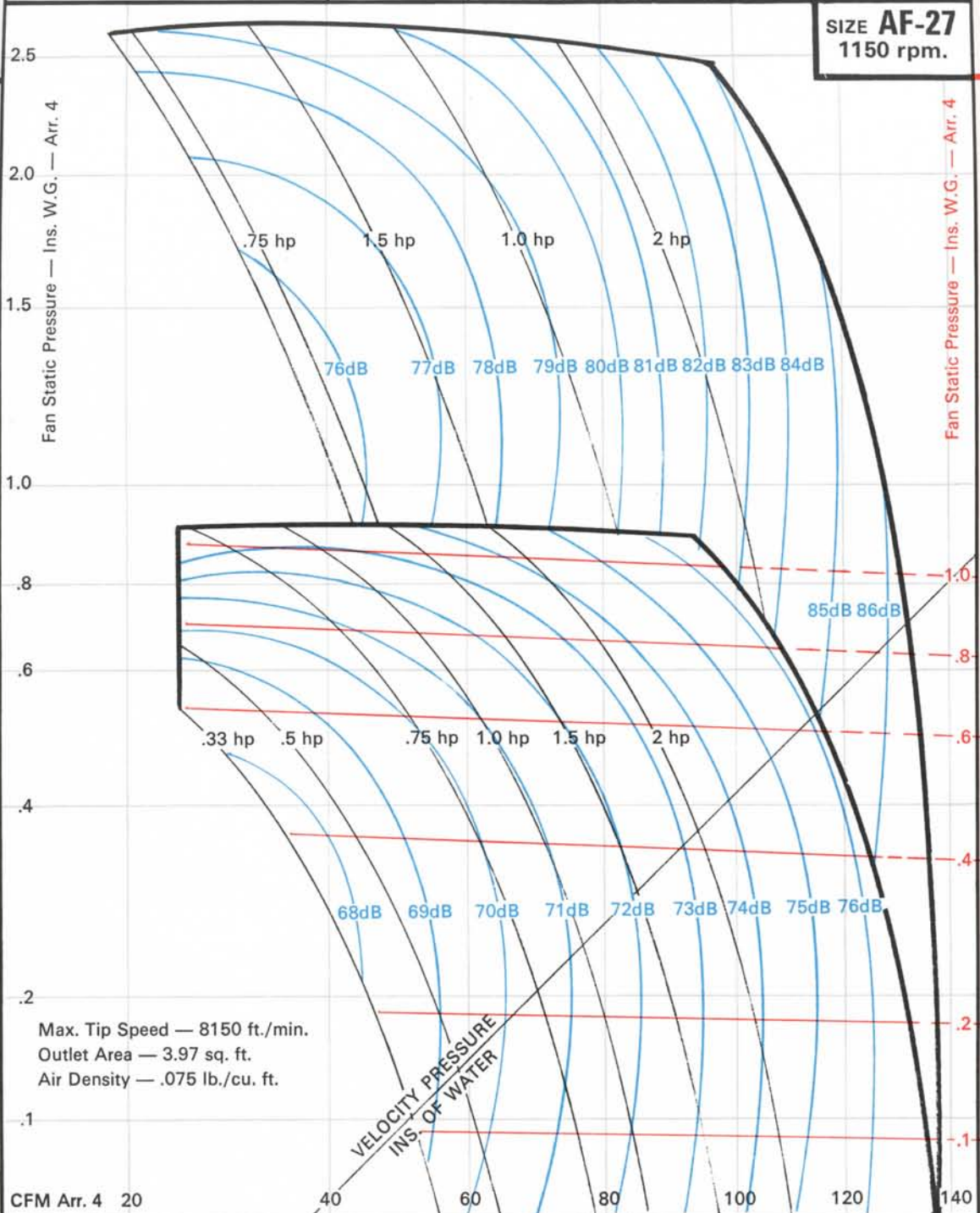
VANE AXIAL

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

Fan Static Pressure — Ins. W.G. — Arr. 4

Fan Static Pressure — Ins. W.G. — Arr. 4

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)



1150 rpm
1100 rpm
1050 rpm
1000 rpm
950 rpm
900 rpm



1150 rpm
1100 rpm
1050 rpm
1000 rpm
950 rpm
900 rpm

TABLE 1 HP/SPEED CORRECTION CHART

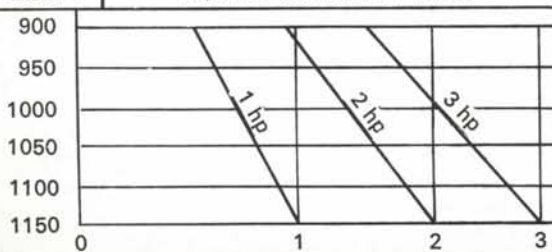


TABLE 2

Sound Level Correction for Speed	1150	1100	1050	1000	950	900
dB	0	-1	-2	-3	-4	-5

The performance chart has been arranged to provide ratings for both Direct-driven and Belt driven, Tube and Vaneaxial fans. For details of a sample selection method refer to page 6.

NB: Belt Driven Ratings Corrected for Belt Guard Losses

The range of performance is obtained by variations in number of blades and blade angle, the actual values of which are chosen by our Sales office on receipt of a specific duty.

The fan horsepower contours relate to the HP taken by each impeller, and for contra-rotating fans shown in the upper envelope give the maximum HP taken by each stage. The contours of sound level relate to the average Sound Pressure Level (Lp) in dB, re .0002 dynes/cm². The corresponding Sound Power Level (Lw) re 10⁻¹² watts is 17 dB higher.

TABLE 3

Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-7	-6	-6	-7	-8	-12	-18	-24

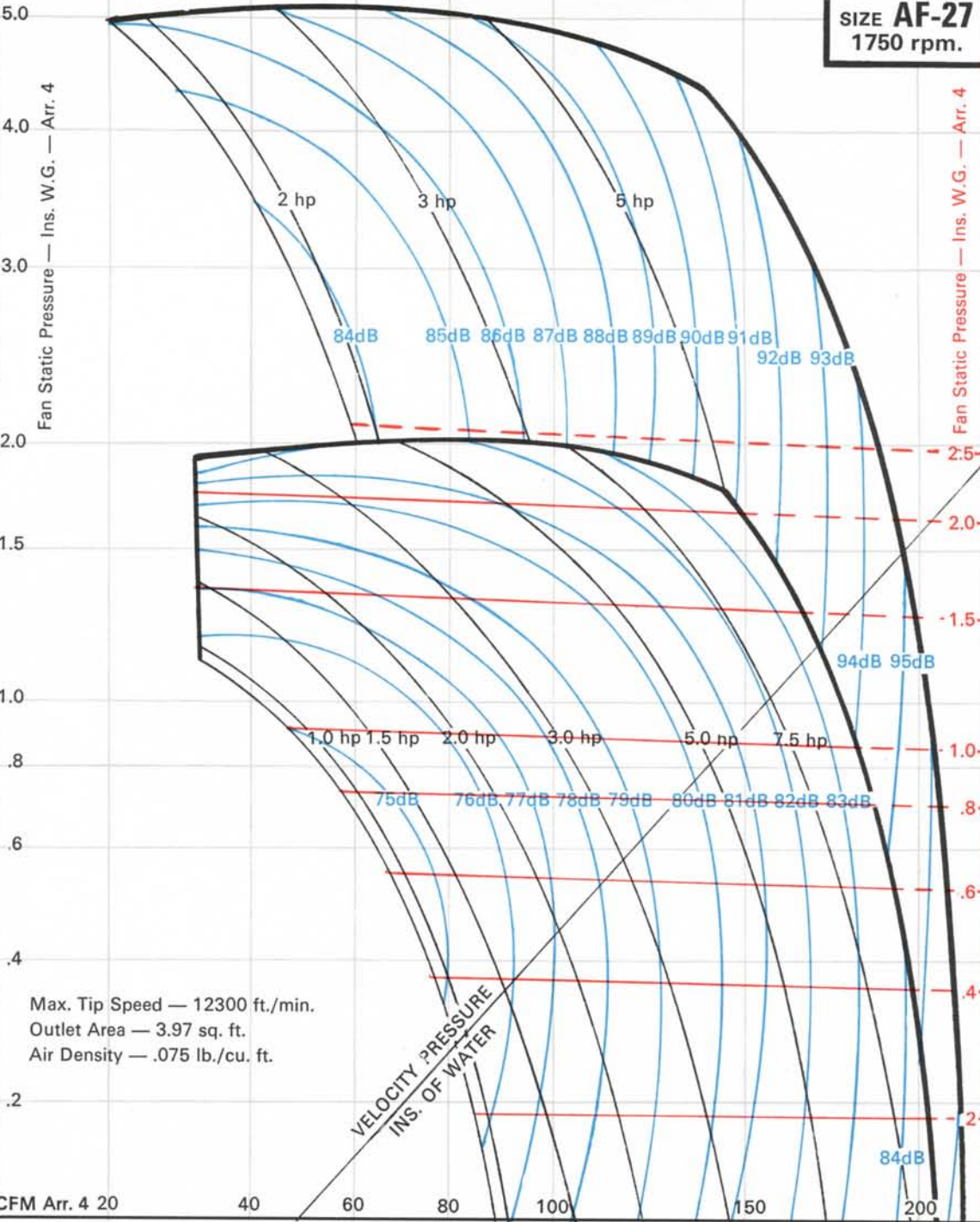
TUBE AXIAL

SP Regain using Outlet Cone — Ins. wg. .05 .1 .2 .3 .4 .5

SIZE AF-27
1750 rpm.

VANE AXIAL

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)



Fan Static Pressure — Ins. W.G. — Arr. 4

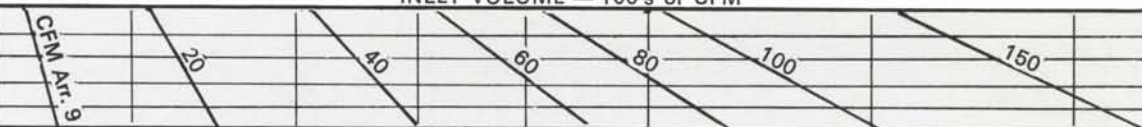
Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

1750 rpm
1650 rpm
1550 rpm
1450 rpm
1350 rpm
1250 rpm

Max. Tip Speed — 12300 ft./min.
Outlet Area — 3.97 sq. ft.
Air Density — .075 lb./cu. ft.

INLET VOLUME — 100's of CFM

1250 rpm
1350 rpm
1450 rpm
1550 rpm
1650 rpm
1750 rpm



1750 rpm
1650 rpm
1550 rpm
1450 rpm
1350 rpm
1250 rpm

TABLE 1 HP/SPEED CORRECTION CHART

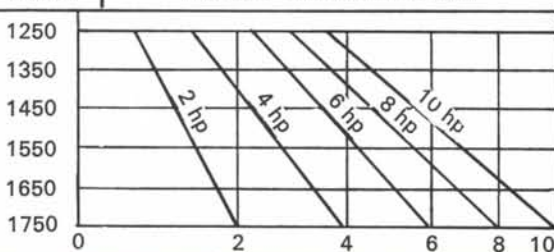


TABLE 2

Sound Level Correction for Speed	1750	1650	1550	1450	1350	1250
dB	0	-1	-2	-4	-6	-8

The performance chart has been arranged to provide ratings for both Direct-driven and Belt driven, Tube and Vaneaxial fans. For details of a sample selection method refer to page 6.

NB: Belt Driven Ratings Corrected for Belt Guard Losses
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TABLE 3

Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-9	-7	-5	-6	-8	-10	-18	-24

TUBE AXIAL

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)



600 rpm
620 rpm
640 rpm
660 rpm
680 rpm
700 rpm

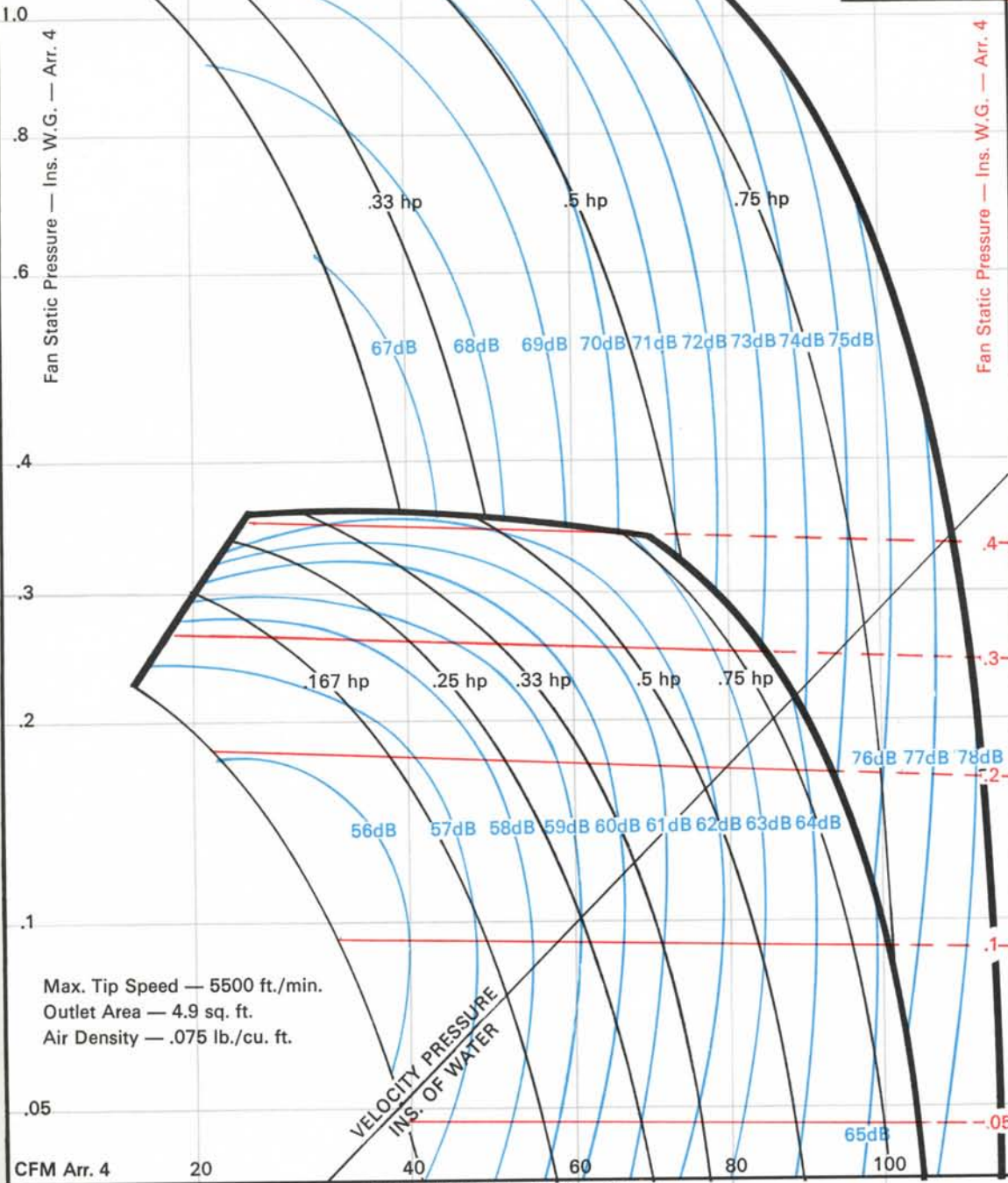
SP Regain using Outlet Cone — Ins. wg.

.02 .04 .06 .08 .1

SIZE **AF-30**
700 rpm.

VANE AXIAL

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)



Fan Static Pressure — Ins. W.G. — Arr. 4

Max. Tip Speed — 5500 ft./min.
Outlet Area — 4.9 sq. ft.
Air Density — .075 lb./cu. ft.

VELOCITY PRESSURE
INS. OF WATER

CFM Arr. 4 20 40 60 80 100

INLET VOLUME — 100's of CFM

700 rpm
680 rpm
660 rpm
640 rpm
620 rpm
600 rpm



700 rpm
680 rpm
660 rpm
640 rpm
620 rpm
600 rpm

TABLE 1 HP/SPEED CORRECTION CHART

HP	700	680	660	640	620	600
1.0 hp	0	0	0	0	0	0
.75 hp	0	0	0	0	0	0
.5 hp	0	0	0	0	0	0
.25 hp	0	0	0	0	0	0

TABLE 2

Sound Level Correction for Speed	700	680	660	640	620	600
dB	0	-1	-1	-2	-3	-4

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TABLE 3

Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-6	-5	-6	-7	-9	-12	-20	-26

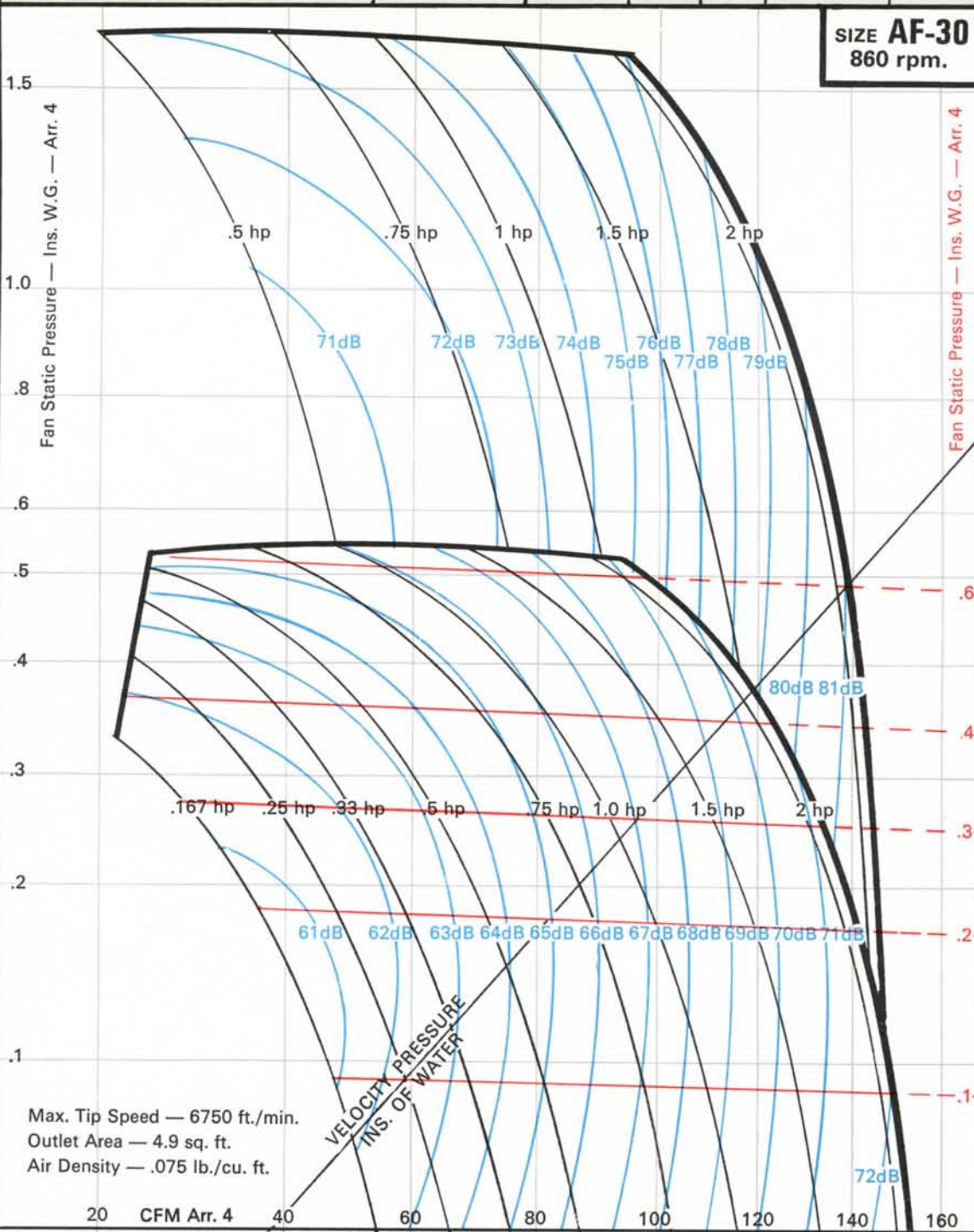
TUBE AXIAL

SP Regain using Outlet Cone — Ins. wg. .02 .04 .06 .08 .1 .15 .2

SIZE AF-30
860 rpm.

VANE AXIAL

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)



Max. Tip Speed — 6750 ft./min.
Outlet Area — 4.9 sq. ft.
Air Density — .075 lb./cu. ft.



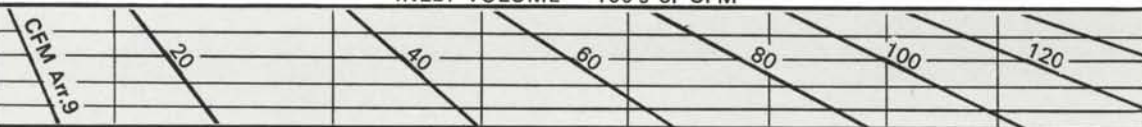
Fan Static Pressure — Ins. W.G. — Arr. 4

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

860 rpm
830 rpm
800 rpm
770 rpm
740 rpm
710 rpm



710 rpm
740 rpm
770 rpm
800 rpm
830 rpm
860 rpm



860 rpm
830 rpm
800 rpm
770 rpm
740 rpm
710 rpm

TABLE 1 HP/SPEED CORRECTION CHART

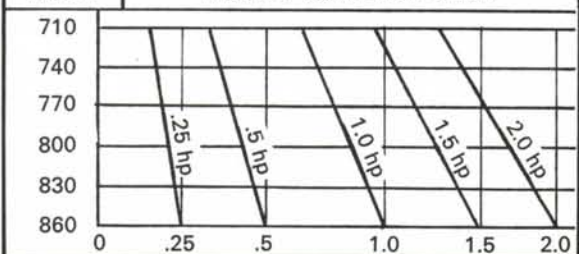


TABLE 2

Sound Level Correction for Speed	860	830	800	770	740	710
dB	0	-1	-1	-2	-3	-4

The performance chart has been arranged to provide ratings for both Direct-driven and Belt driven, Tube and Vaneaxial fans. For details of a sample selection method refer to page 6.

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TABLE 3

Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-6	-5	-6	-7	-9	-12	-20	-26

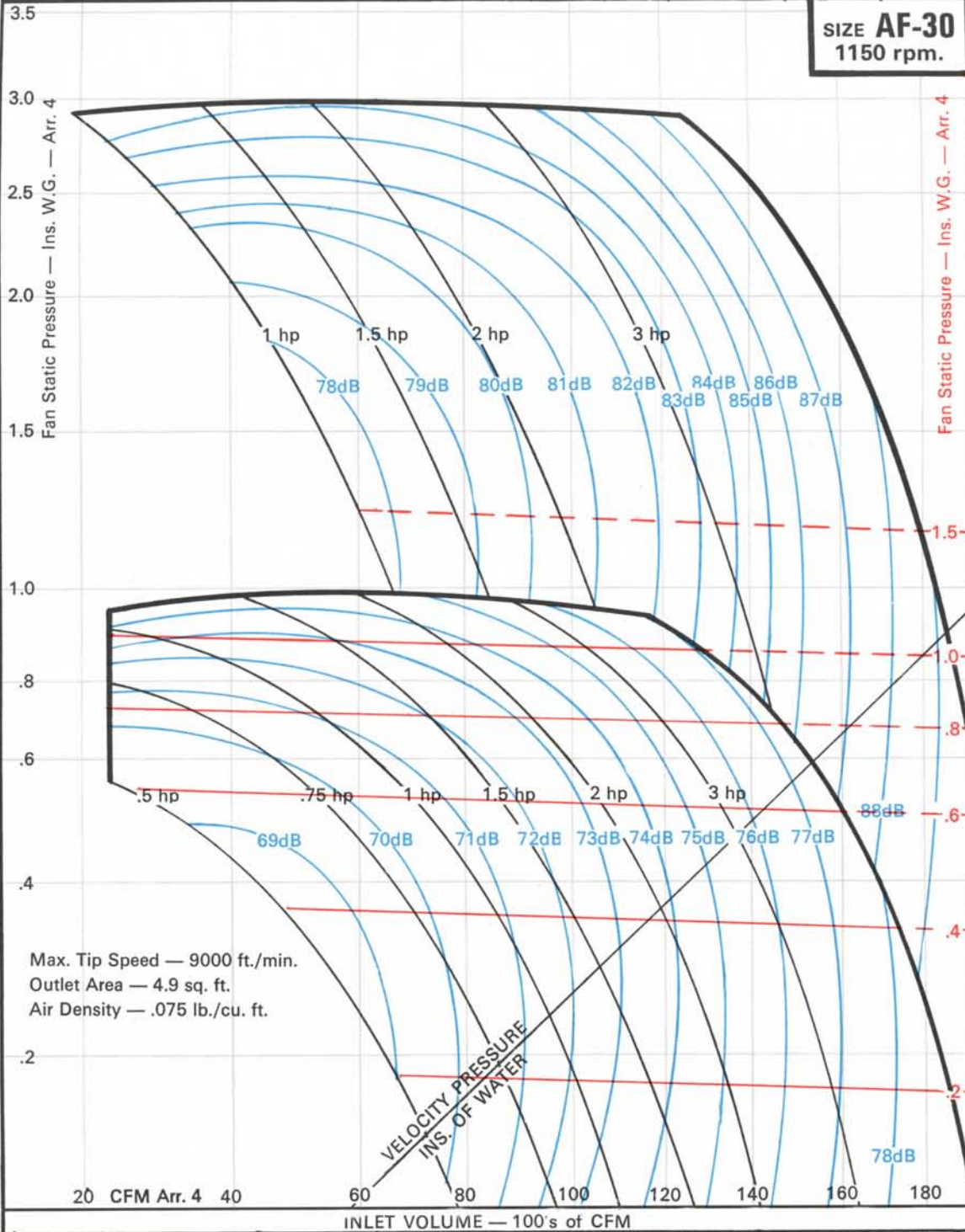
TUBE AXIAL

SP Regain using Outlet Cone — Ins. wg. .04 .06 .08 .1 .15 .2

SIZE **AF-30**
1150 rpm.

VANE AXIAL

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)



Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

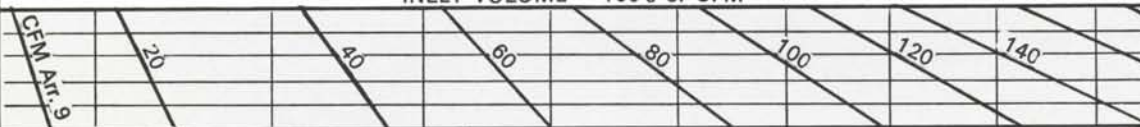
1150 rpm
1100 rpm
1050 rpm
1000 rpm
950 rpm
900 rpm

Max. Tip Speed — 9000 ft./min.
Outlet Area — 4.9 sq. ft.
Air Density — .075 lb./cu. ft.

VELOCITY PRESSURE
INS. OF WATER



900 rpm
950 rpm
1000 rpm
1050 rpm
1100 rpm
1150 rpm



1150 rpm
1100 rpm
1050 rpm
1000 rpm
950 rpm
900 rpm

TABLE 1 HP/SPEED CORRECTION CHART

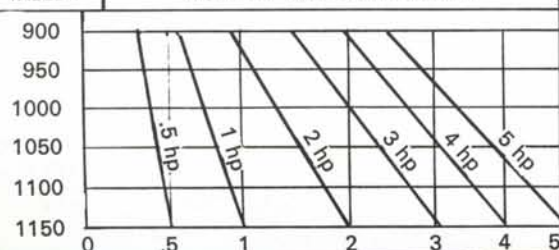


TABLE 2

Sound Level Correction for Speed	1150	1100	1050	1000	950	900
dB	0	-1	-2	-3	-4	-5

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TABLE 3

Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-8	-6	-6	-7	-8	-12	-18	-24

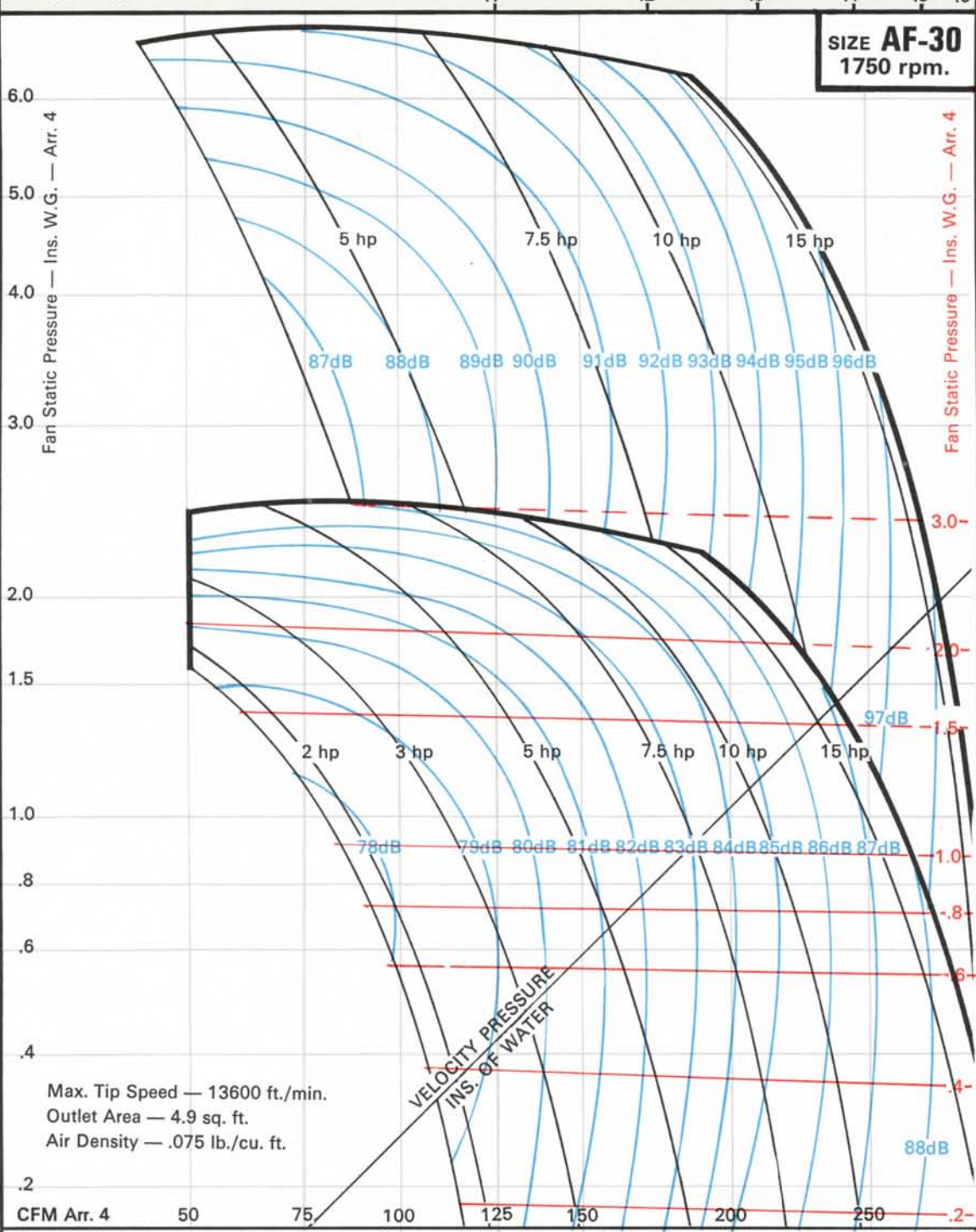
TUBE AXIAL

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)



1250 rpm
1350 rpm
1450 rpm
1550 rpm
1650 rpm
1750 rpm

SP Regain using Outlet Cone — Ins. wg.



CFM Arr. 4

INLET VOLUME — 100's of CFM

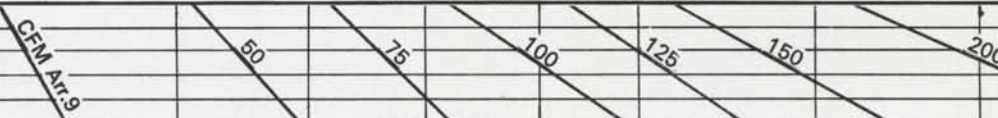


TABLE 1

HP/SPEED CORRECTION CHART

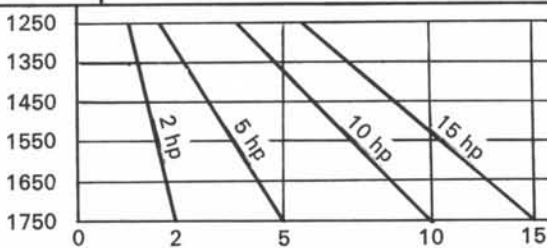


TABLE 2

Sound Level Correction for Speed	1750	1650	1550	1450	1350	1250
dB	0	-1	-2	-4	-6	-8

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TABLE 3

Octave Band Mid frequency	cps	63	125	250	500	1000	2000	4000	8000
Spectrum	dB	-12	-9	-6	-6	-7	-9	-15	-21

VANE AXIAL

SIZE AF-30
1750 rpm.

Belt Driven Fan — Arr. 9
Static Pressure — Ins. W.G.
(Applies to Single Stage Only)

1750 rpm
1650 rpm
1550 rpm
1450 rpm
1350 rpm
1250 rpm



1750 rpm
1650 rpm
1550 rpm
1450 rpm
1350 rpm
1250 rpm