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SQUARE BODY RADIAL BLADE CENTRIFUGAL FAN –D6900
GENERAL SPECIFICATION.

The centrifugal fan shall be designed and manufactured by Sheldons Engineering to ensure reliable construction. Fan wheel shall be a radial paddle wheel "XO" (radial tipped with backplate "XC", radial tipped with backplate and shroud "XS", radial with backplate and shroud "XB") as shown in plans with all steel construction. Unless otherwise directed, fan arrangement, motor location, support base, rotation and discharge are as shown on the layout drawings.

PERFORMANCE

Fan ratings shall be based on tests made in accordance with AMCA Standard 210. Flow shall be actual volumetric flow at the fan inlet. Fan static pressure is defined as static pressure at fan outlet less total pressure at fan inlet. Standard inlet density is to be taken as 0.75 lb/ft^3 with corrections for temperature, elevation, inlet static pressure, gas composition and humidity as defined in the schedule. Fans shall be selected to operate to the right of the peak static pressure at the given speed to ensure stable performance. Fan brake horsepower shall be equal to or less than specified at the given flow and fan static pressure.

SOUND

Fan manufacturers shall provide sound power level ratings for fans tested and rated in accordance with AMCA Standards 300 and 301. Sound power ratings shall be in decibels (reference 10-12 watts) in eight octave bands. Sound power levels will be corrected for installation by the specifying engineer...dBA or sound pressure levels only are not acceptable.

CONSTRUCTION

Fan housings are to be heavy -- min. per table below, continuously welded construction with flanged and punched outlet. Housings with lock seams or spot welded construction are not acceptable. Bearing mounts to be welded perpendicular to the fan shaft.

Fan Size	Housing Thickness
5 – 9	12 ga (0.1046" – 2.7 mm)
11 – 17	10 ga (0.1345" – 3.4 mm)

BEARINGS (belt driven fans)

Bearings are to be heavy duty, grease lubricated, precision anti-friction flange mounted, self-aligning deep groove ball. Bearings shall be designed for a minimum L-10 life of AMCA Class I: 15,000, AMCA Class II: 15,000 up to 24" Dia.—40,000 over, AMCA Class III: 40,000, when rated at the fan's maximum cataloged operating speed for the AMCA class.

SHAFT (belt driven fans)

Shafts are to be ASTM A-108 steel, grade 1040/1045, precision turned, ground and polished. Grade 1018 steel is not acceptable. The shaft's first critical speed shall be at least 143% of the fan's maximum operating speed.

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PAINT

All fan surfaces are to be thoroughly prepared prior to painting using a combination of washing and hand and power tool cleaning as required in SSPC-SP-3. After cleaning, all surfaces (except wheel) are to be coated with industrial grade alkyd enamel. Surfaces of bolted components not accessible after assembly shall be coated and allowed to dry prior to final assembly. Primer only will not be accepted.

BALANCE & INSPECTION

All fans shall be precision balanced to ISO quality grade 2.5, report to be submitted with the maintenance manual. A final inspection by a qualified inspector prior to shipment is required to include: scope of supply confirmation, balance, welding, dimensions, bearings, duct and base connection points, paint finish and overall workmanship.

ACCESSORIES

Accessories shall be provided as called for in the plans and specifications. Standard accessories include:

Motor to be NEMA Design B 3/60/460-575V-1800 rpm, high efficiency TEFC 1.15 SF
V-Belt Drives - Variable Speed/Constant Speed with min 1.5 SF
Belt Guard or weather cover required
Extended lubrication lines (nylon, copper or stainless steel) with fittings terminating in an accessible area.

Additional Features that may be required:

Split pillow block bearings
Access Door – bolted/quick opening or plug type with raised door
Companion Flange (angle companion flange bolted to the fan inlet or outlet flange)
Inlet or Outlet screen heavy gauge wire on 2” centres
Above 300°F, Shaft cooling wheel required
Above 500°F, high temperature aluminum paint required
Vibration Isolation - Spring - Rubber-In-Shear
Variable inlet vanes
Spark Resistant Construction –
- AMCA “A” All parts of the fan in contact with the air stream non-ferrous material
- AMCA “B” Non-ferrous wheel and aluminum rubbing ring where shaft passes through Housing with shaft seal
- AMCA “C” Aluminum inlet cone and Aluminum rubbing ring

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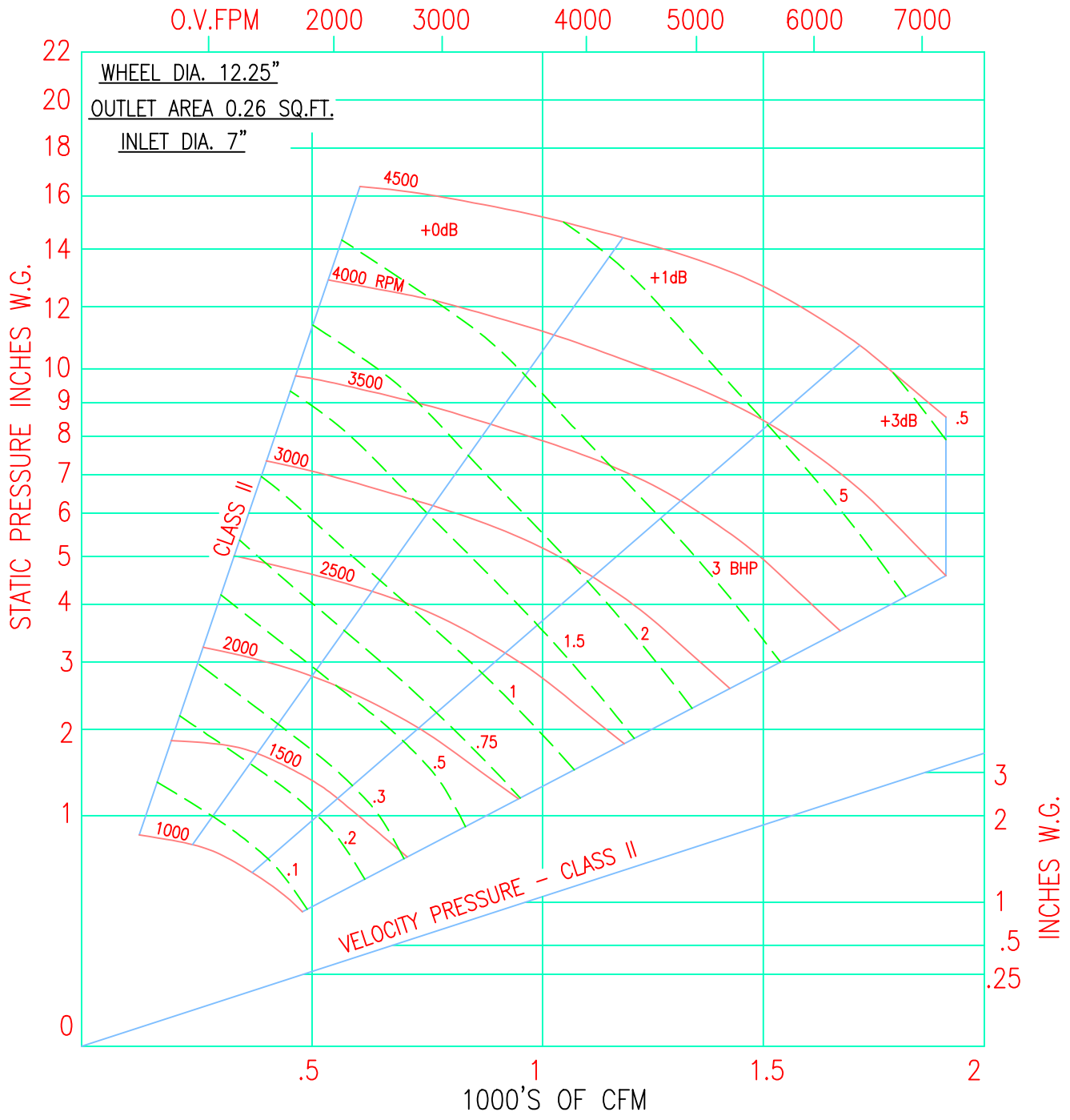
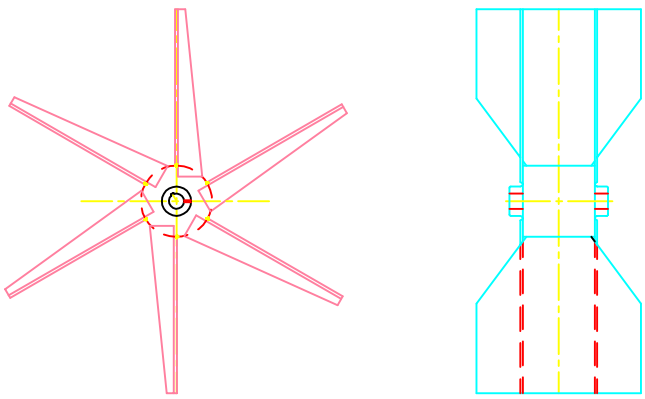
MATERIAL HANDLING FAN
SIZE 7 XO PADDLE WHEEL





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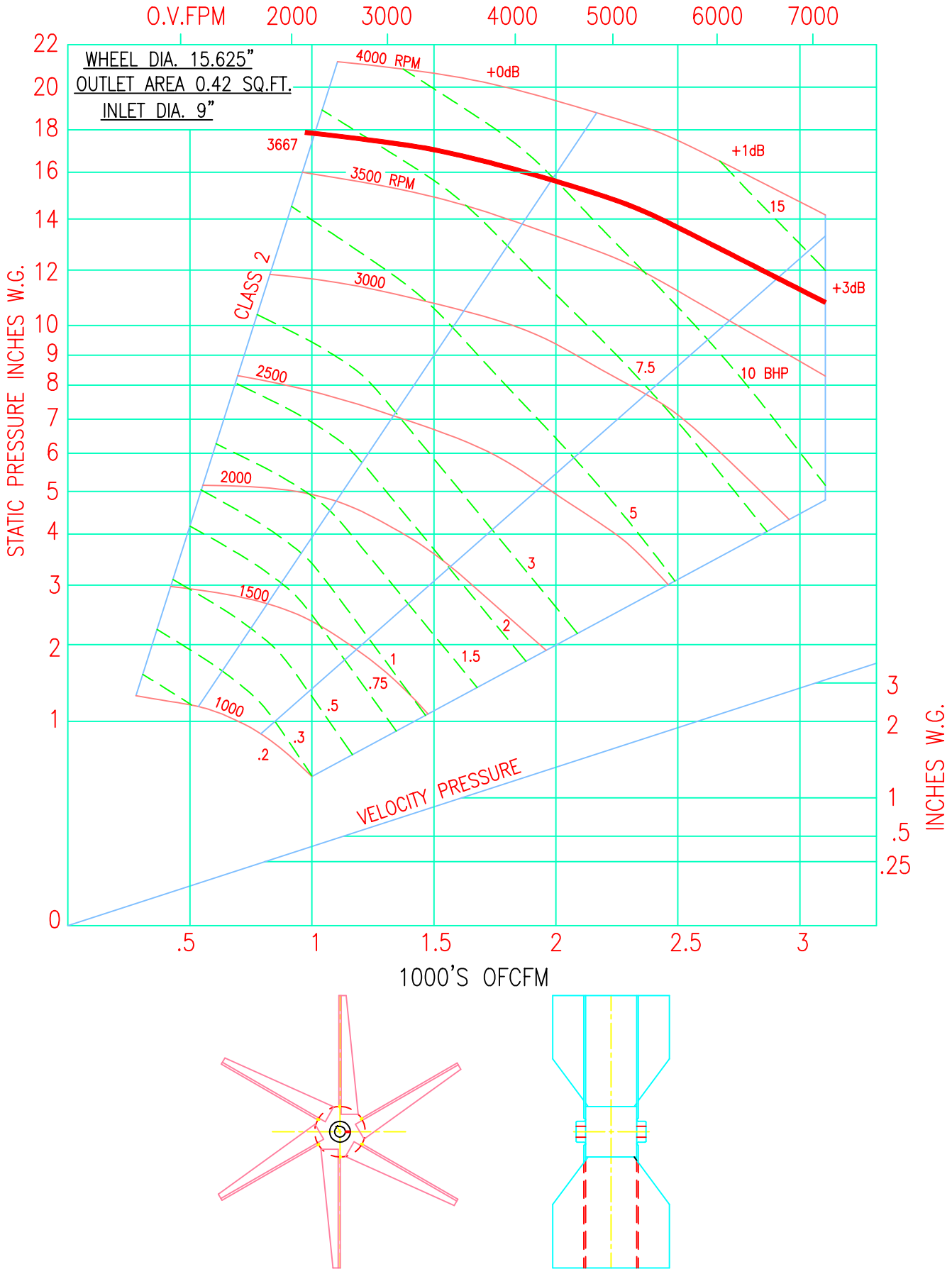
MATERIAL HANDLING FAN
SIZE 9 XO PADDLE WHEEL



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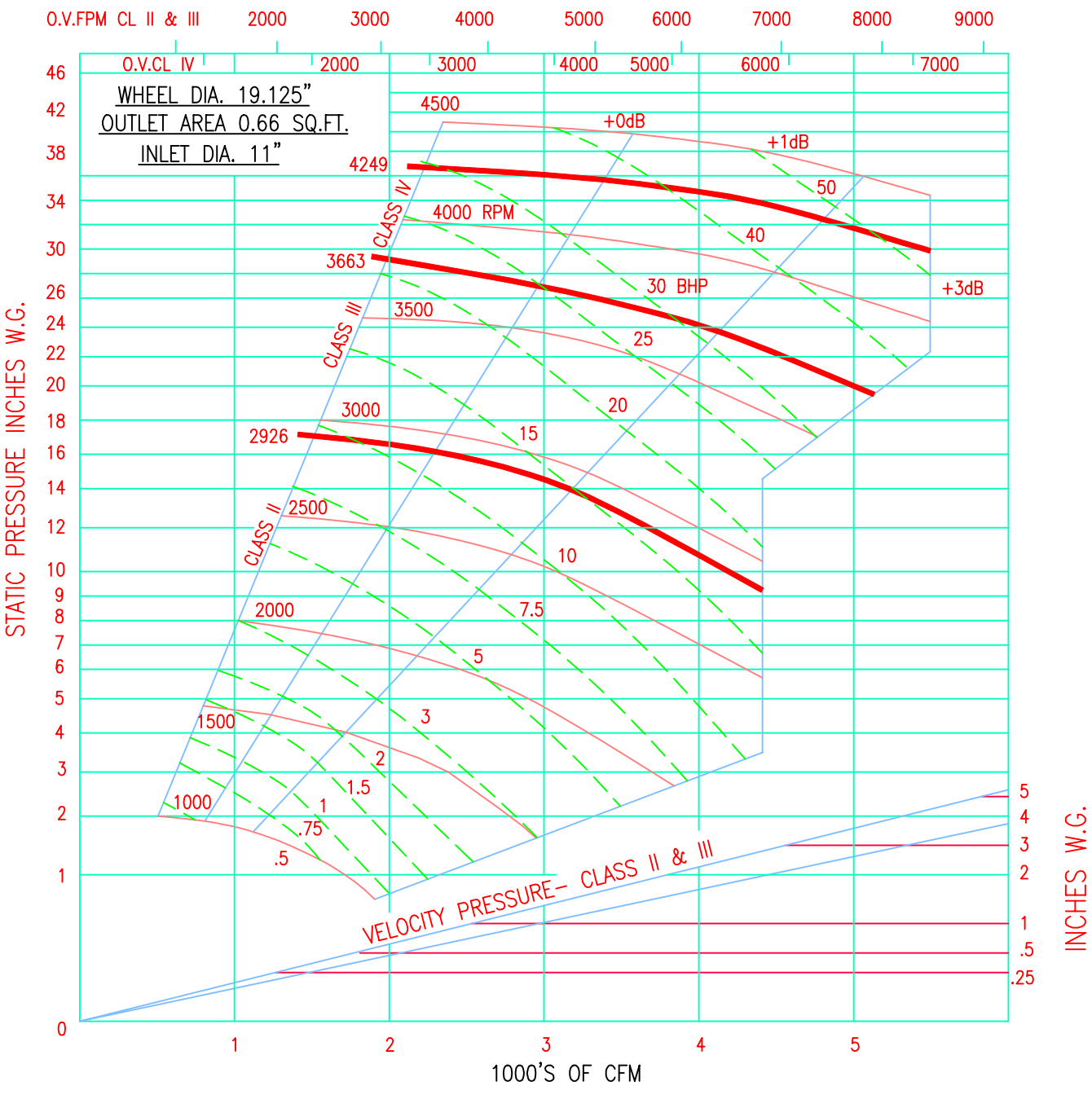
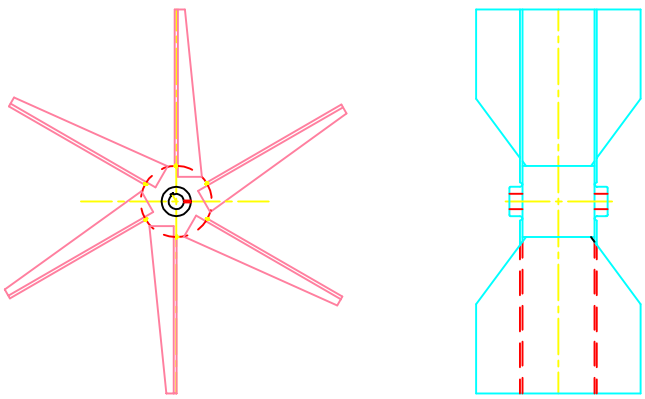
MATERIAL HANDLING FAN
SIZE 11 XO PADDLE WHEEL





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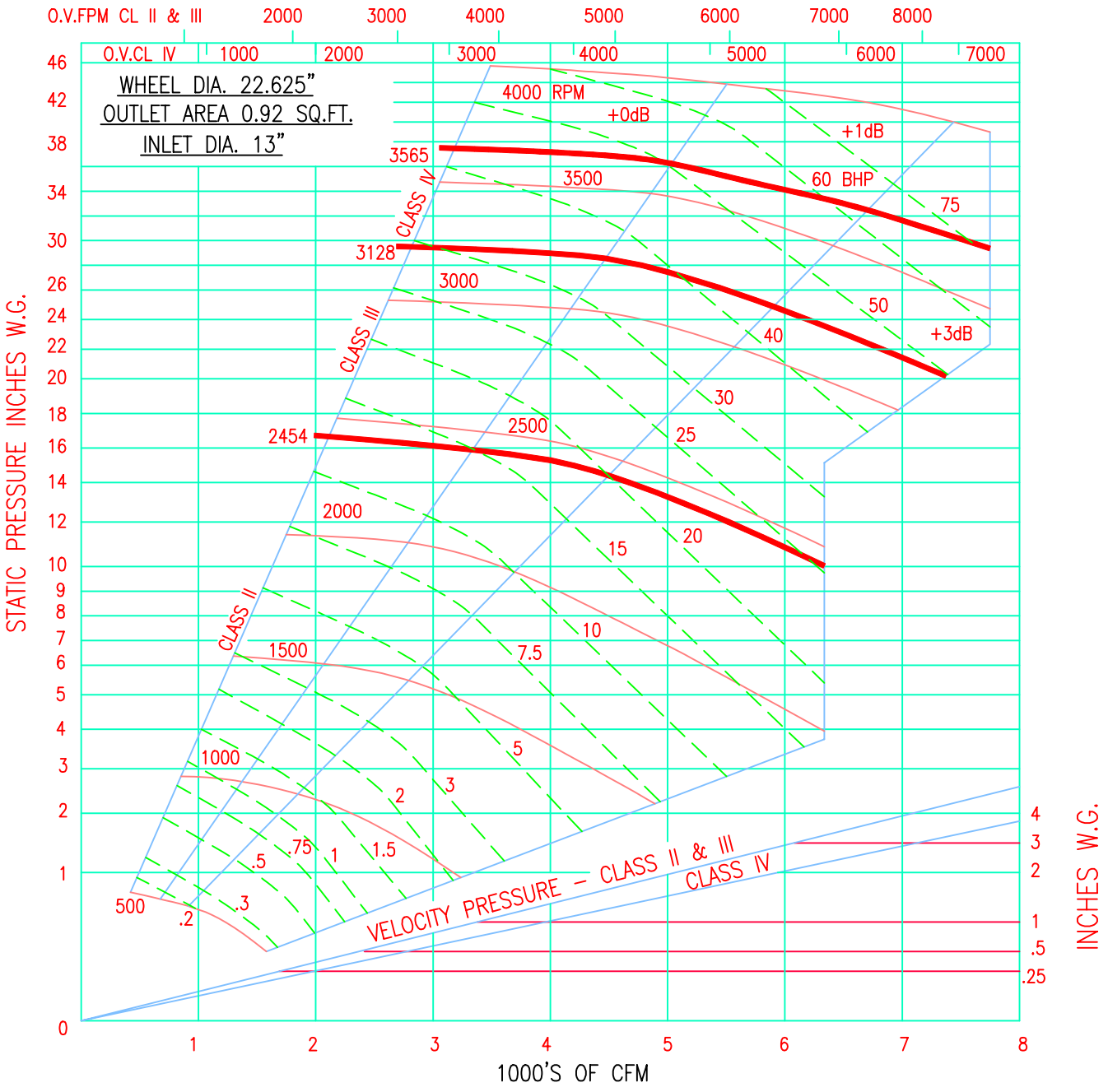
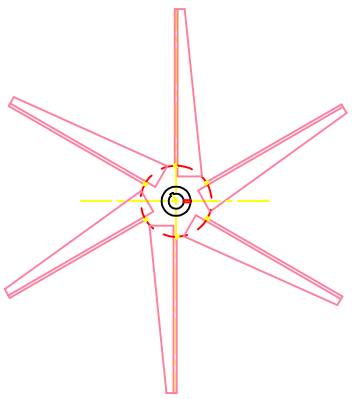
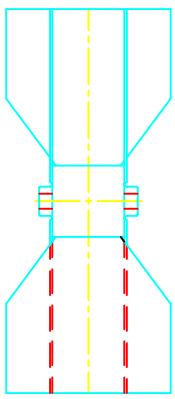
MATERIAL HANDLING FAN
SIZE 13 XO PADDLE WHEEL







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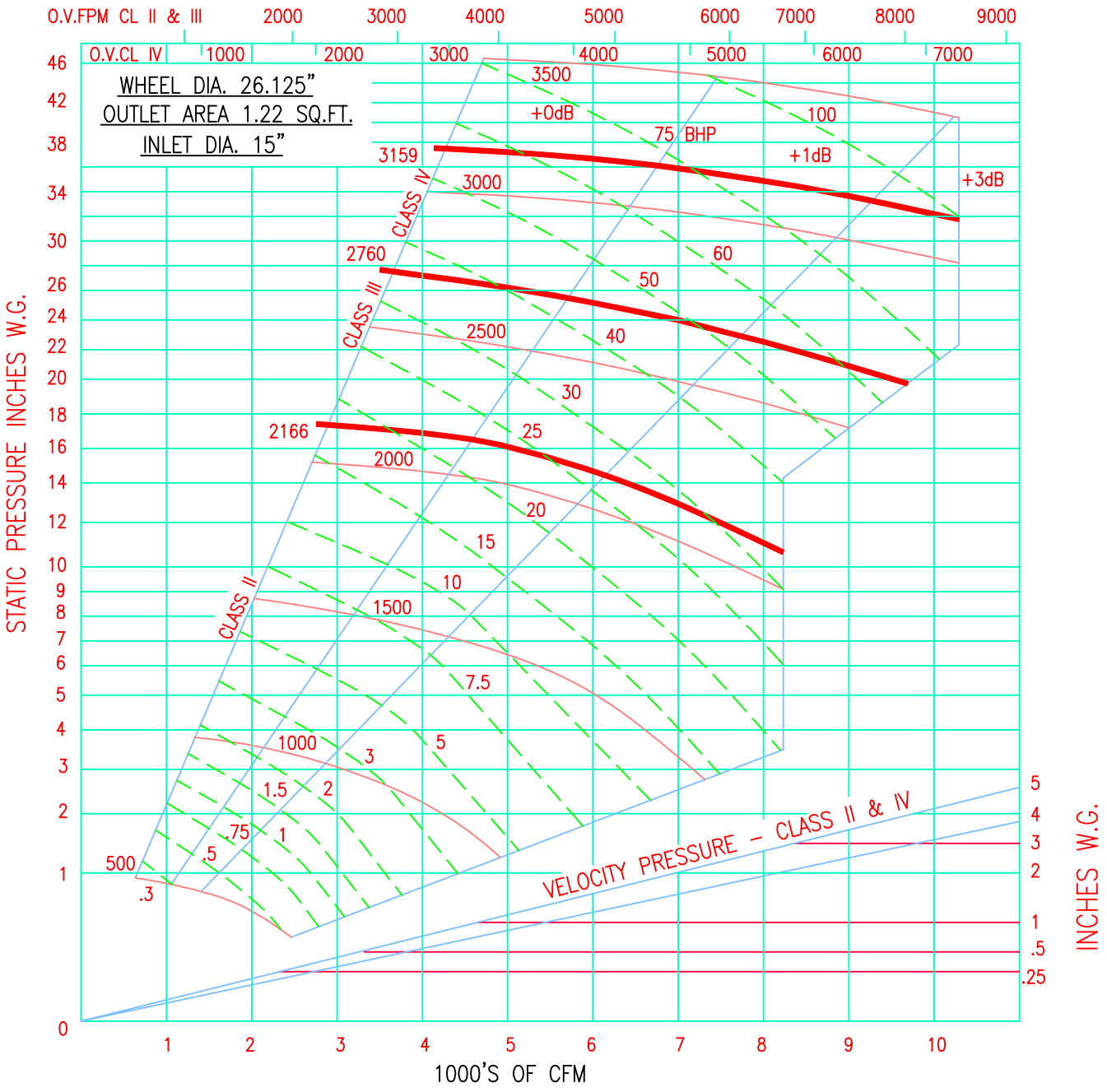
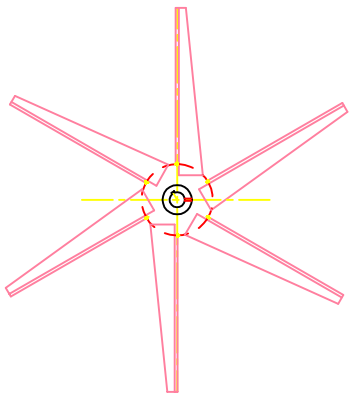
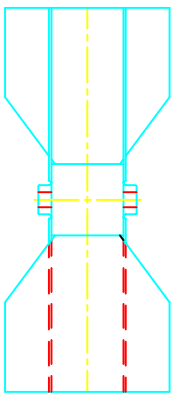
MATERIAL HANDLING FAN
SIZE 15 XO PADDLE WHEEL







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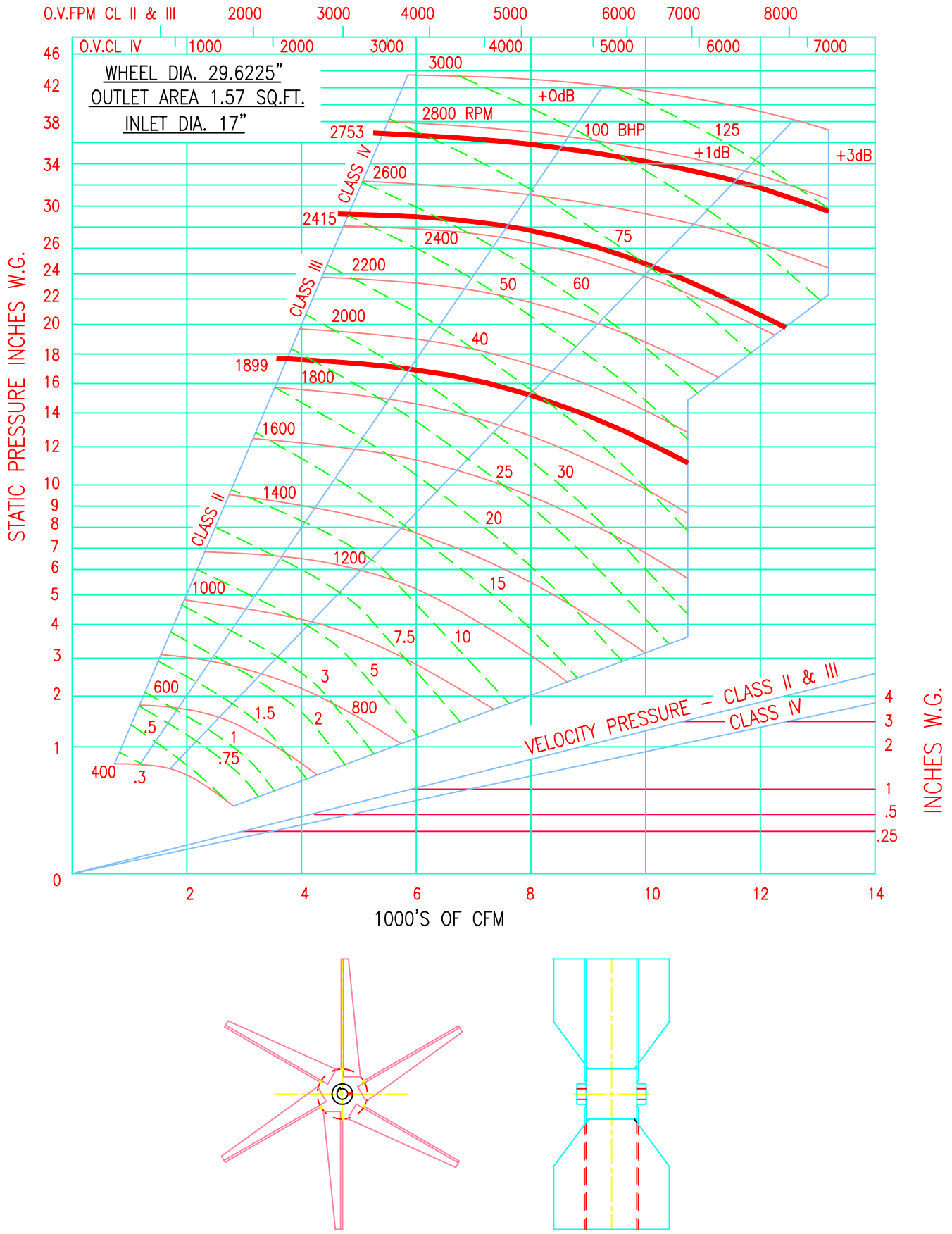
MATERIAL HANDLING FAN
SIZE 17 XO PADDLE WHEEL



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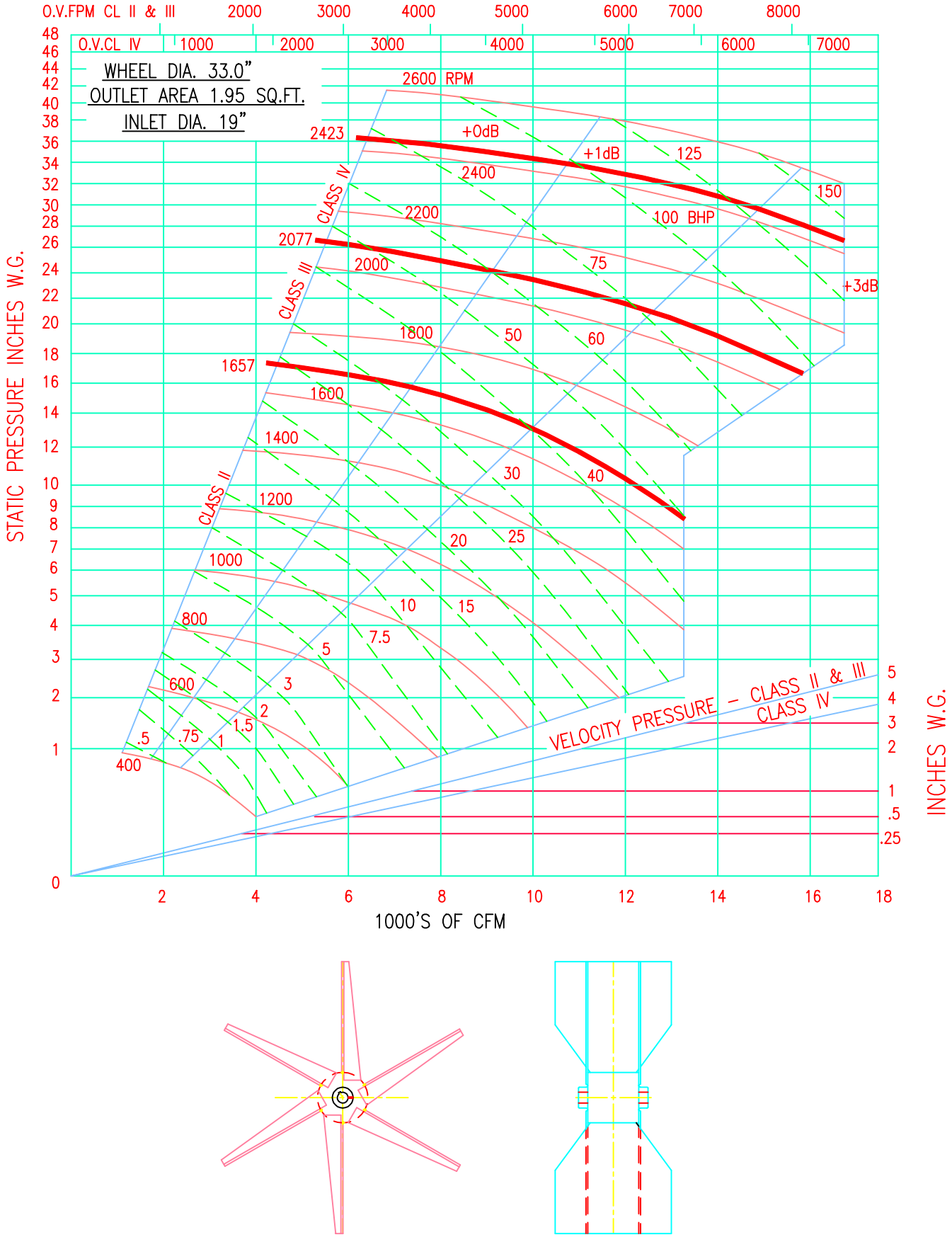
MATERIAL HANDLING FAN
SIZE 19 XO PADDLE WHEEL



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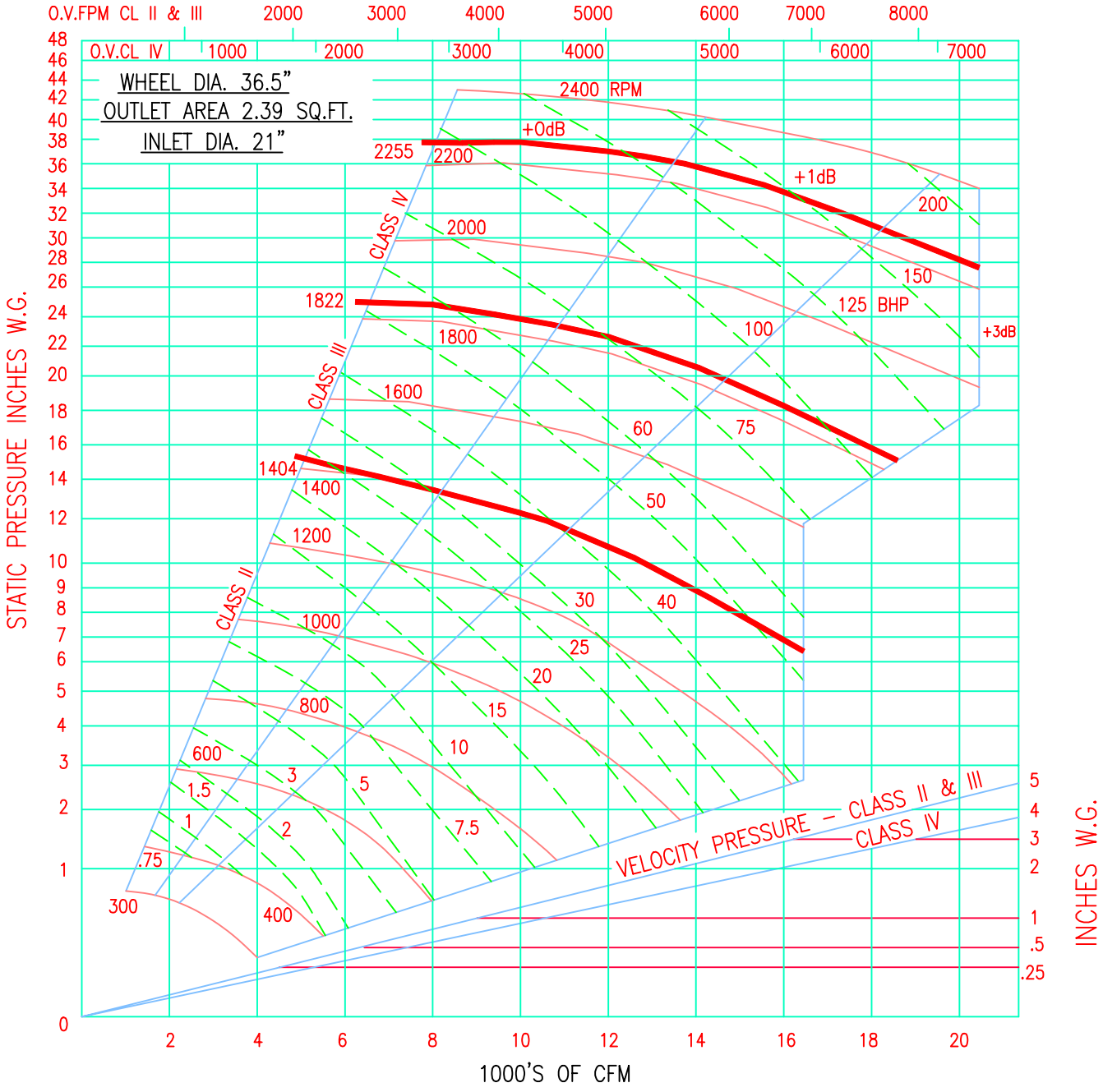
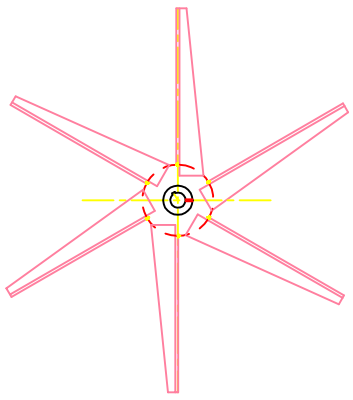
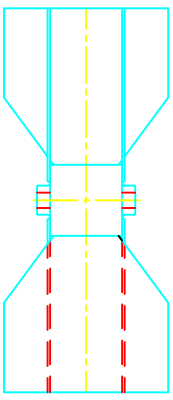
MATERIAL HANDLING FAN
SIZE 21 XO PADDLE WHEEL







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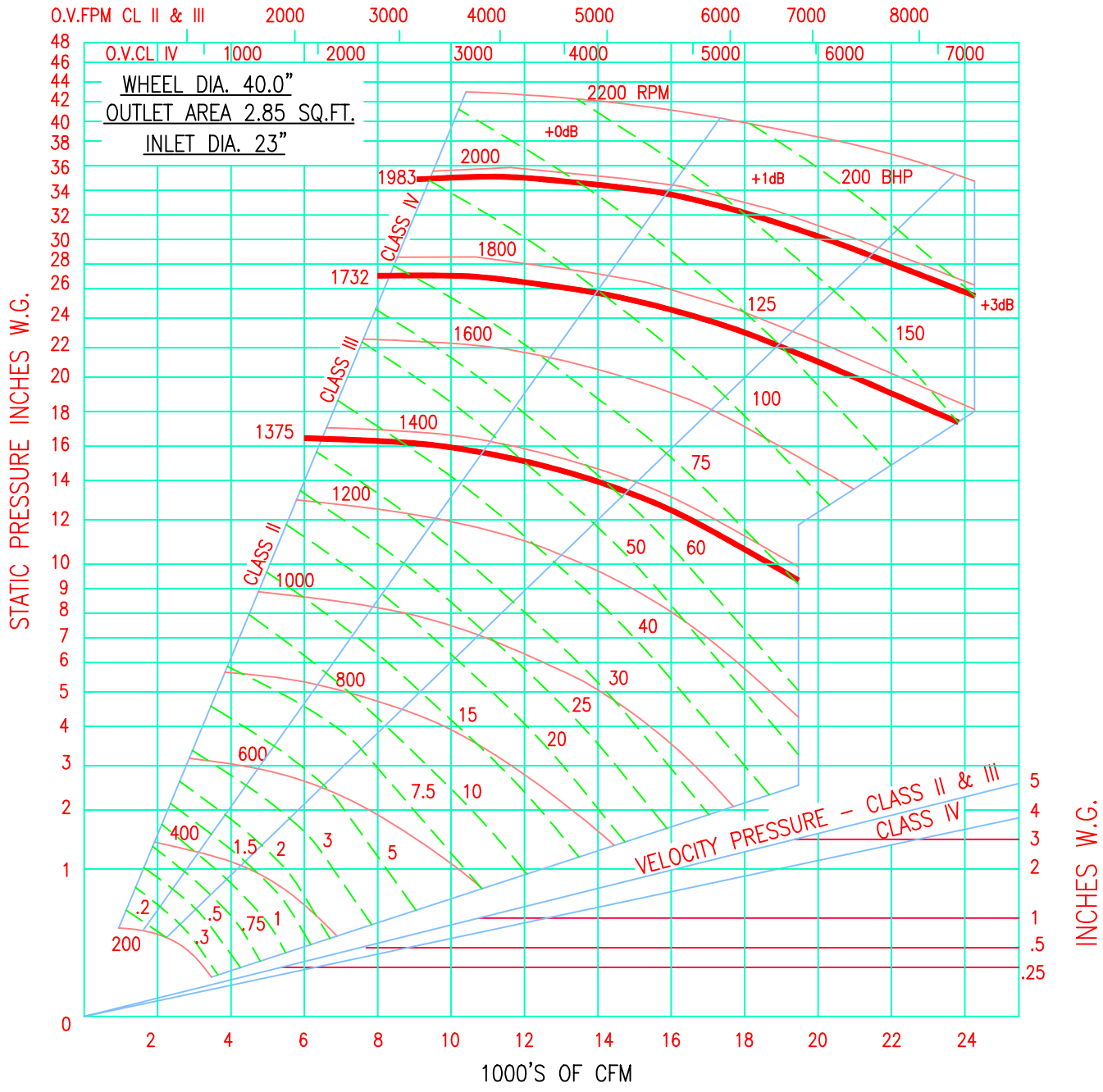
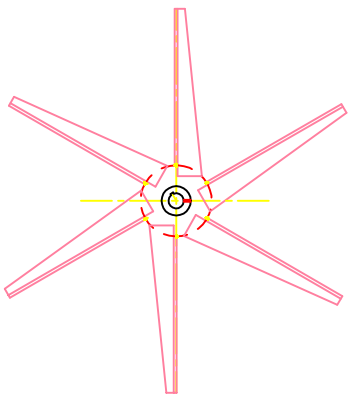
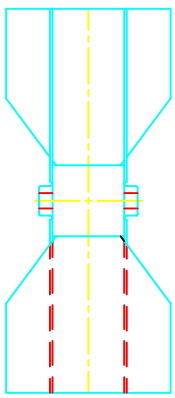
MATERIAL HANDLING FAN
SIZE 23 XO PADDLE WHEEL







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MATERIAL HANDLING FAN
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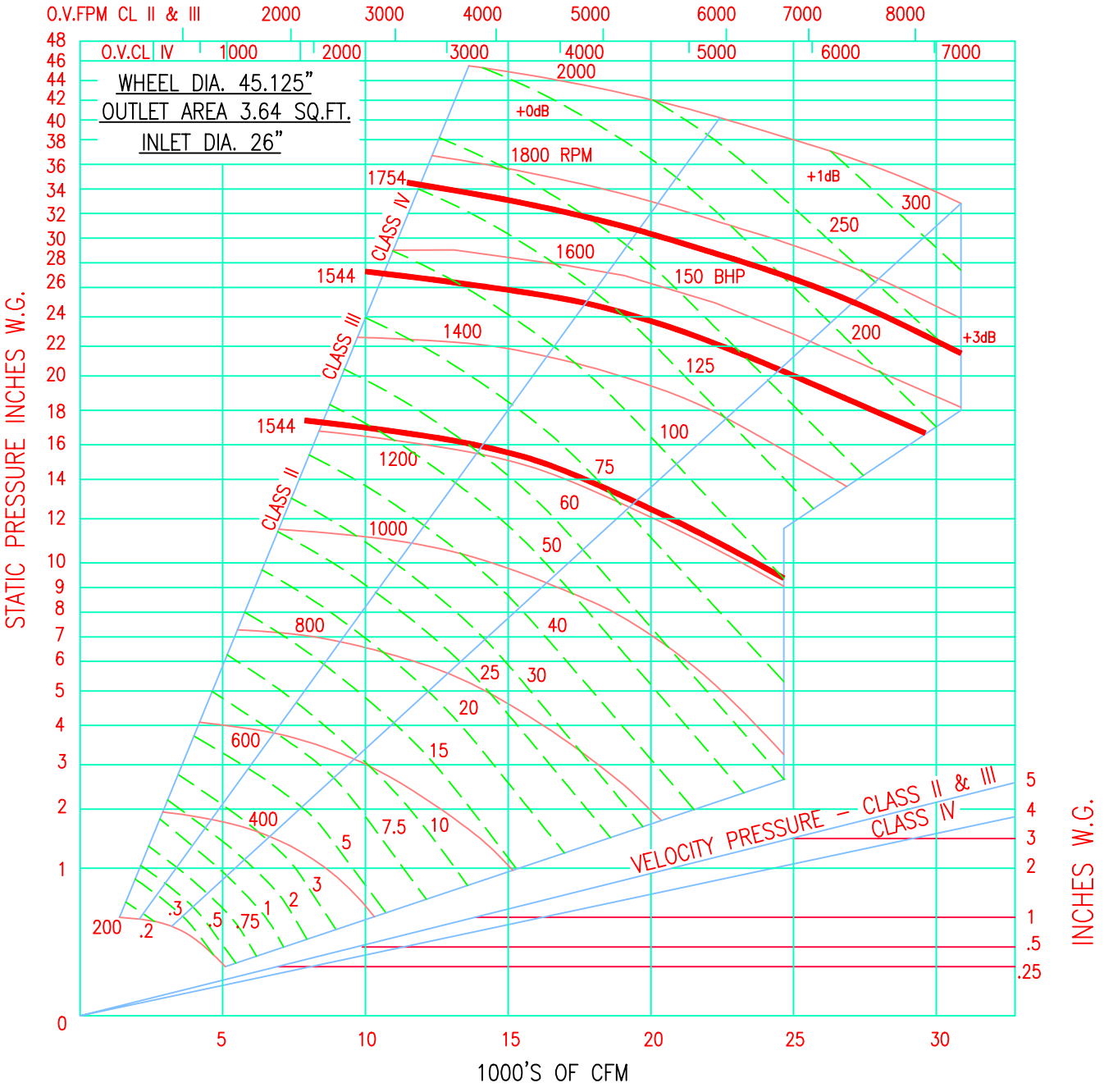

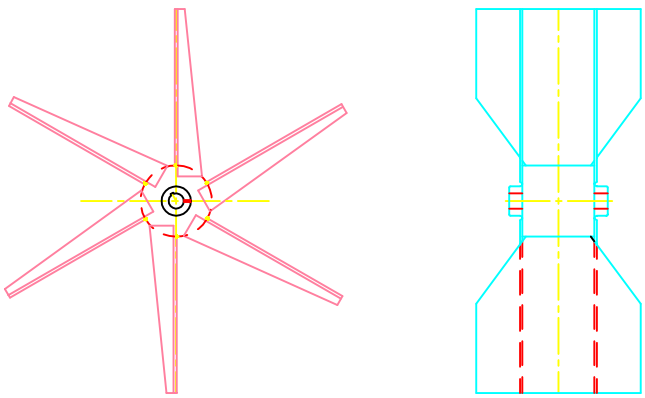

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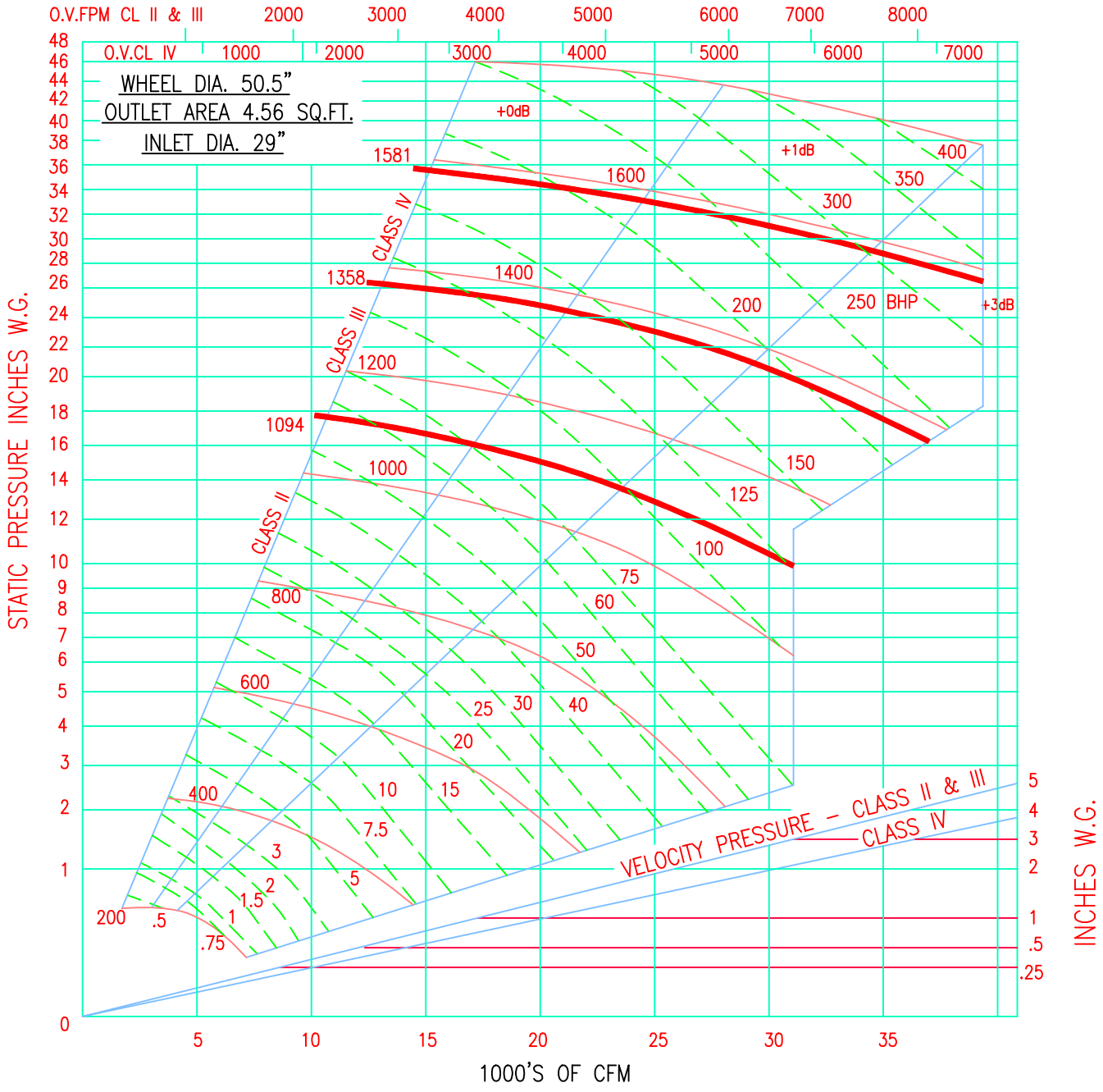
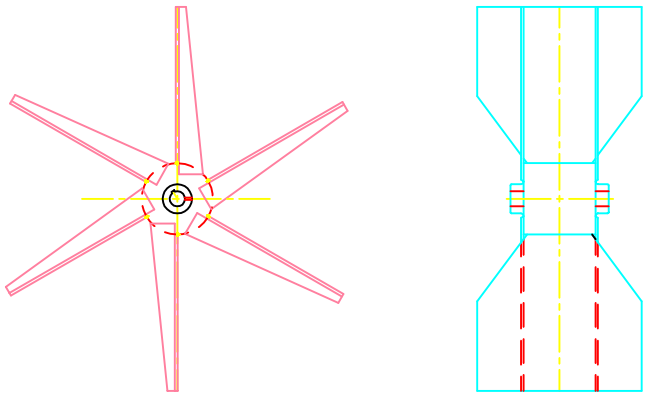
MATERIAL HANDLING FAN
SIZE 29 XO PADDLE WHEEL





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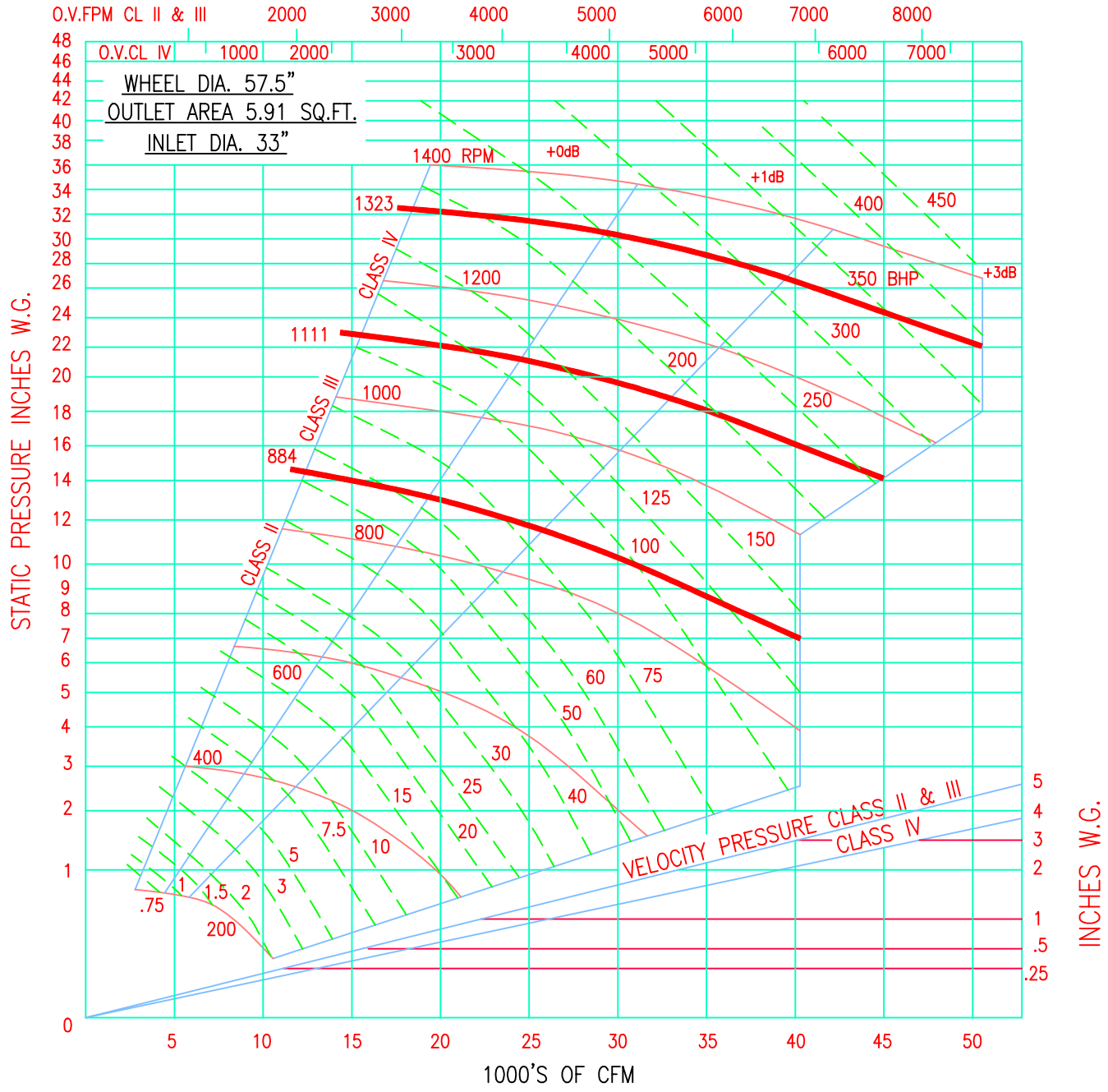
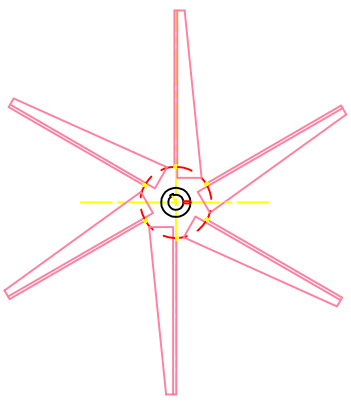
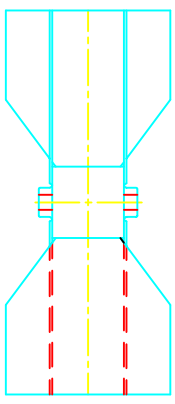
MATERIAL HANDLING FAN
SIZE 33 XO PADDLE WHEEL







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MATERIAL HANDLING FAN
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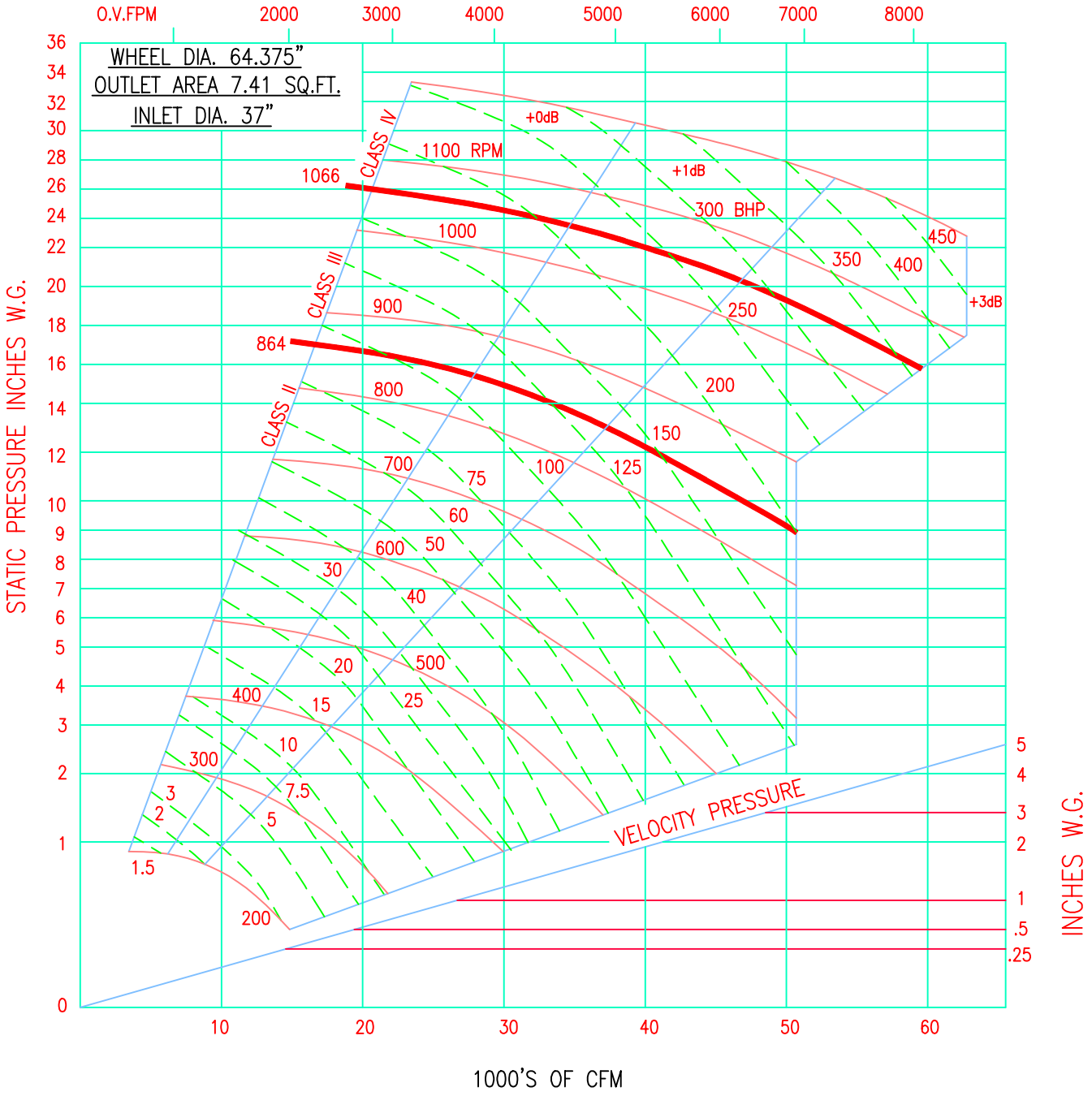

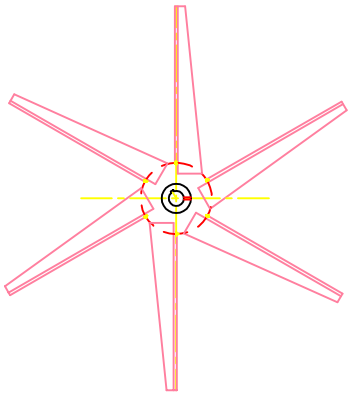

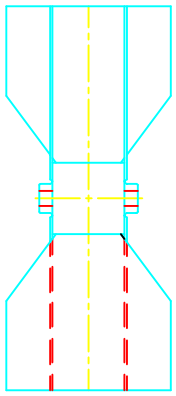

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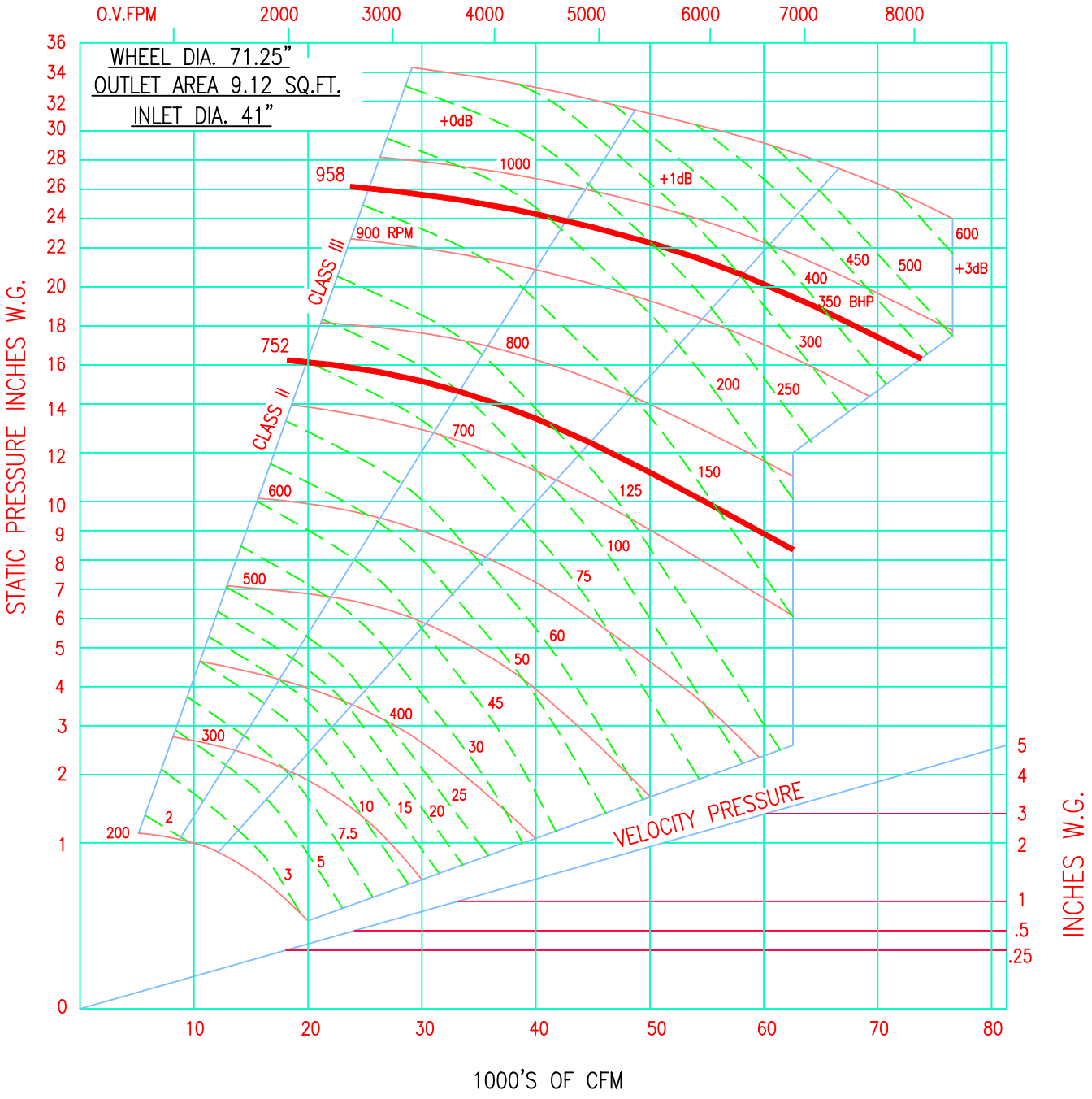
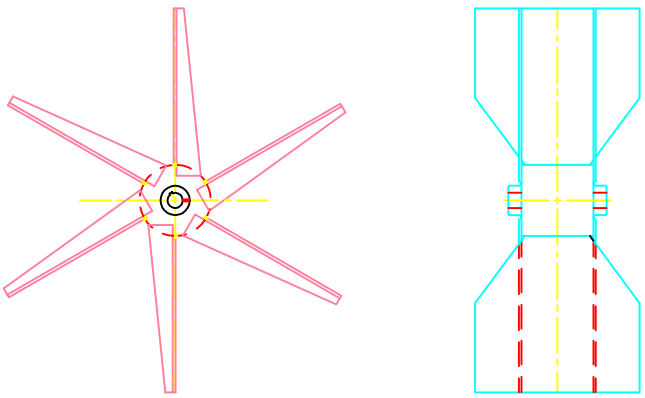
MATERIAL HANDLING FAN
SIZE 41 XO PADDLE WHEEL





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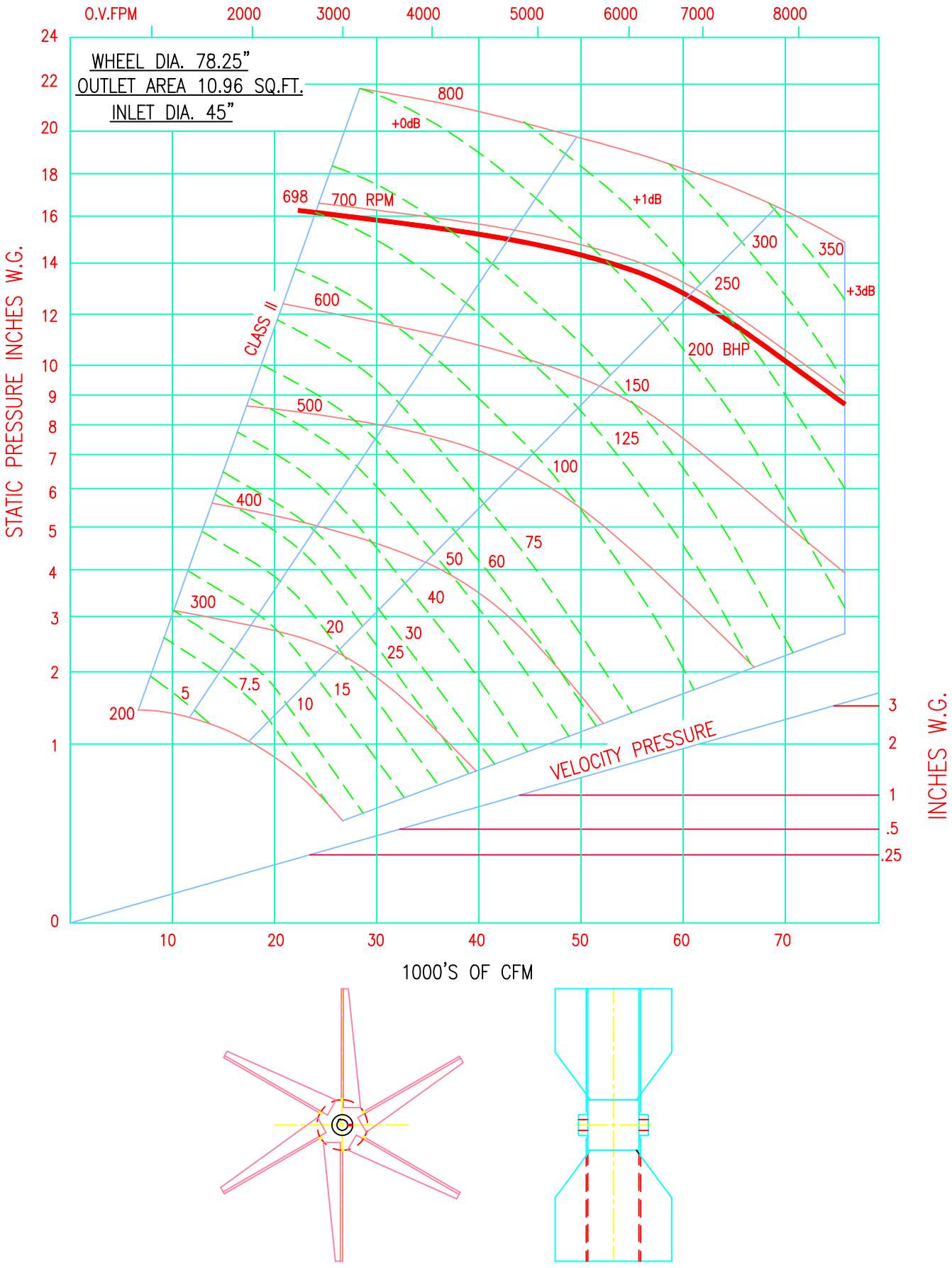
MATERIAL HANDLING FAN
SIZE 45 XO PADDLE WHEEL



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MATERIAL HANDLING FAN
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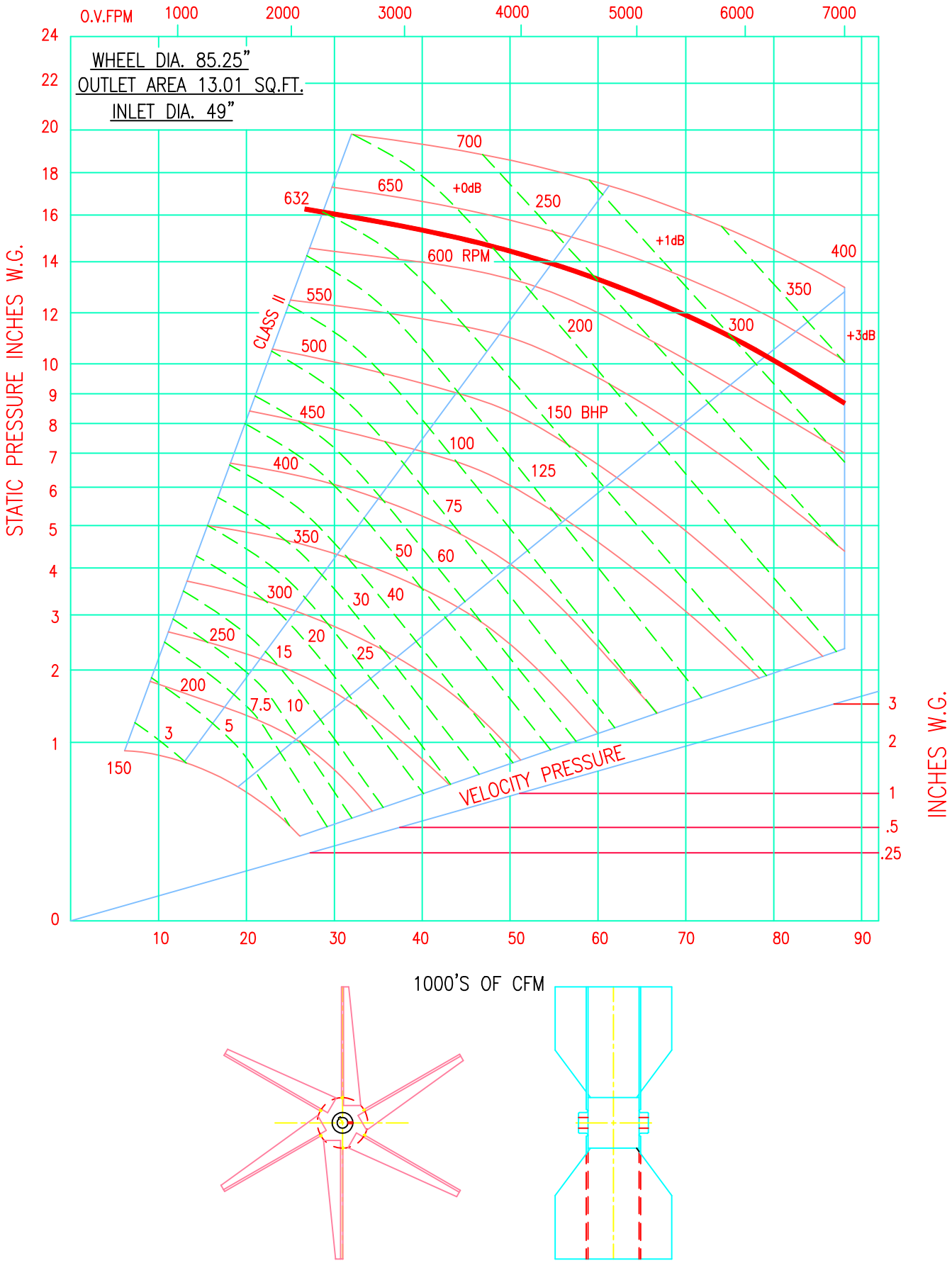

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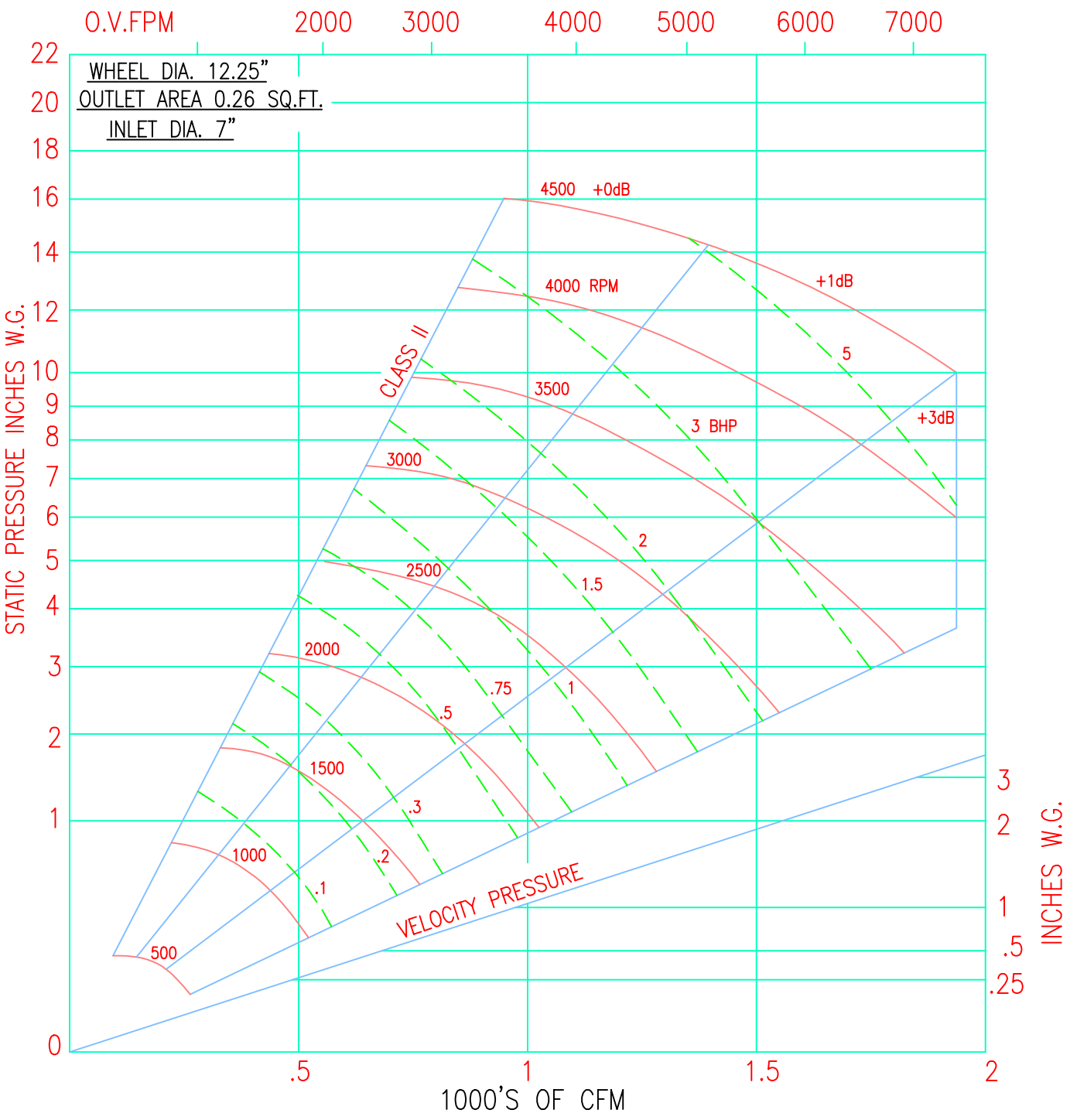
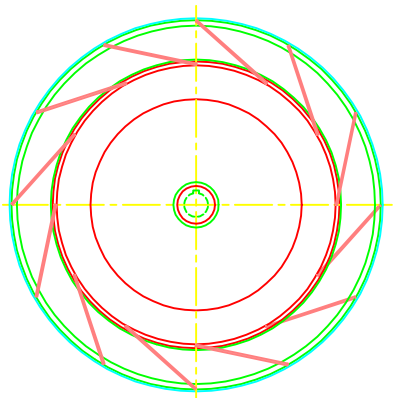
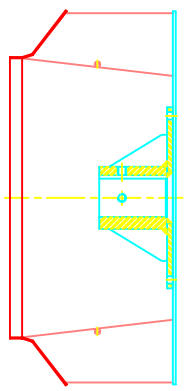
INDUSTRIAL EXHAUSTER
SIZE 7 XB AIR HANDLING WHEEL







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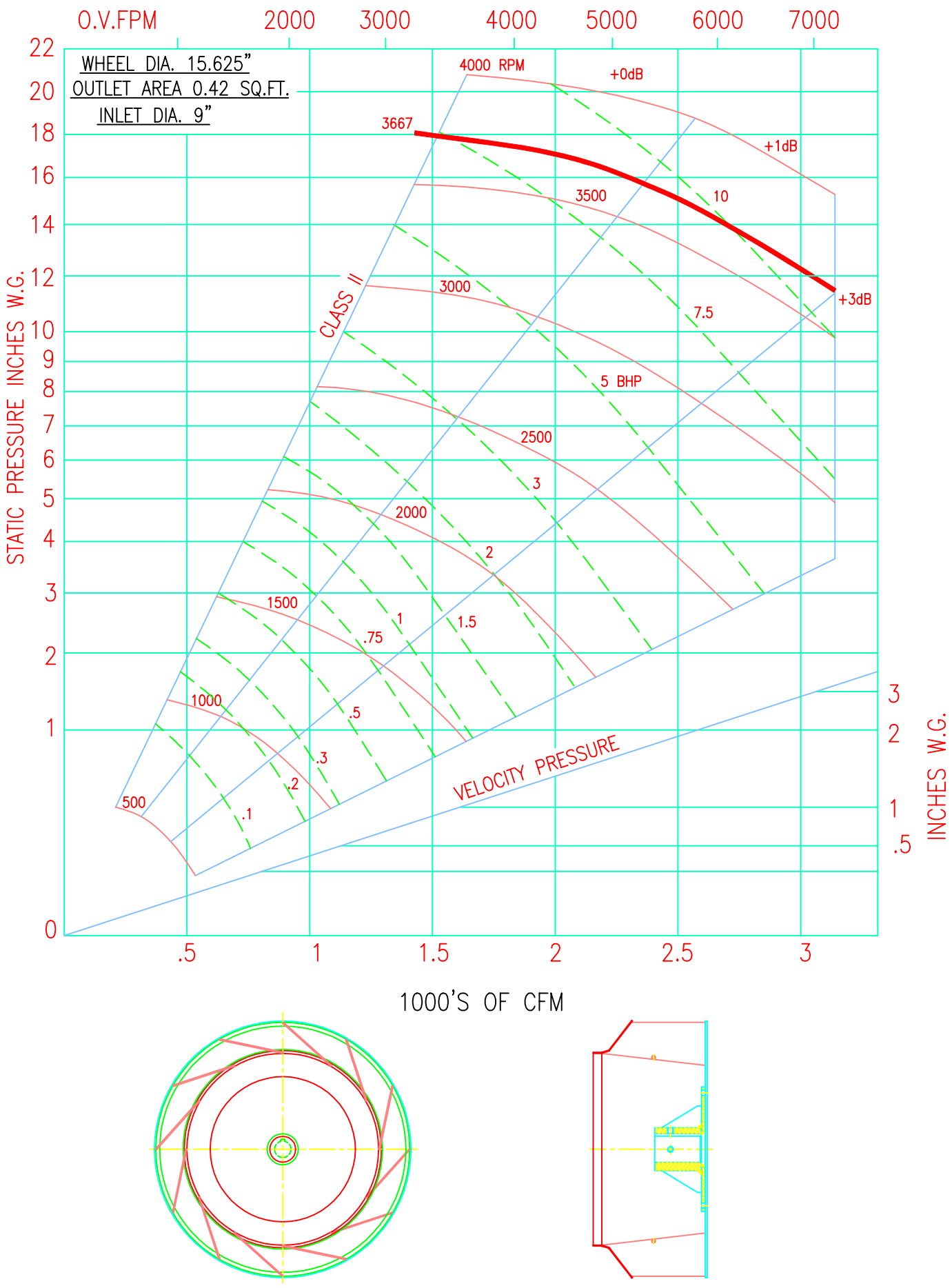
INDUSTRIAL EXHAUSTER
SIZE 9 XB AIR HANDLING WHEEL



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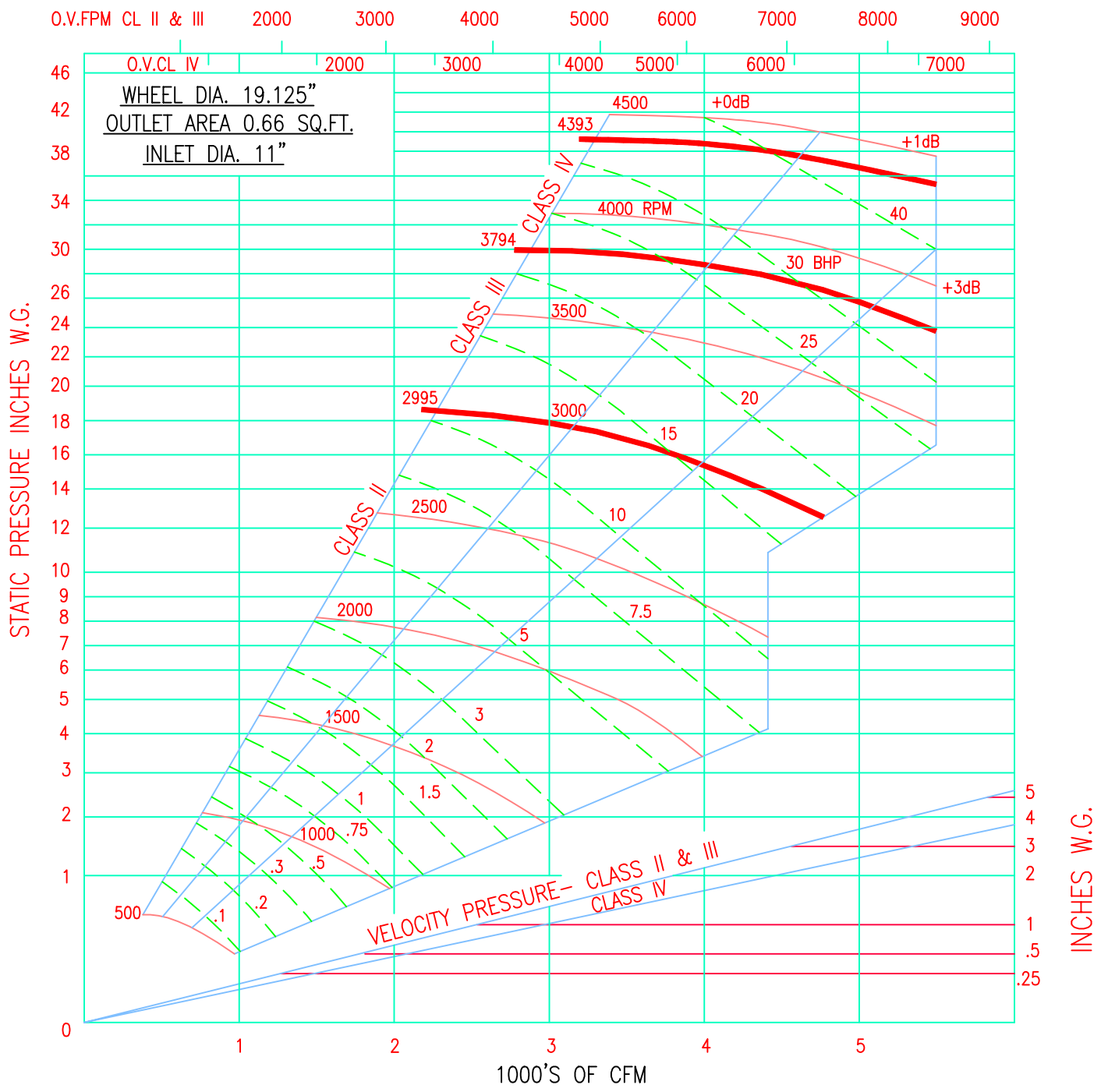
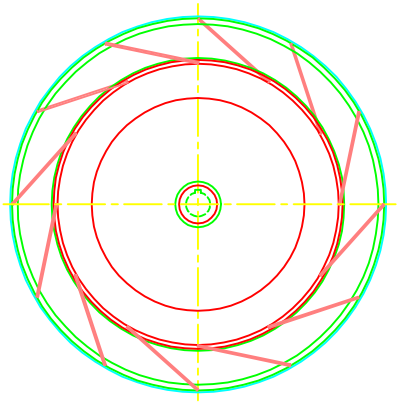
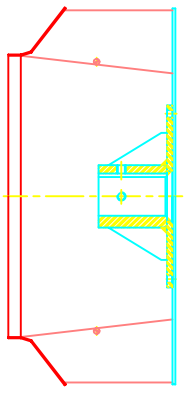
INDUSTRIAL EXHAUSTER
SIZE 11 XB AIR HANDLING WHEEL







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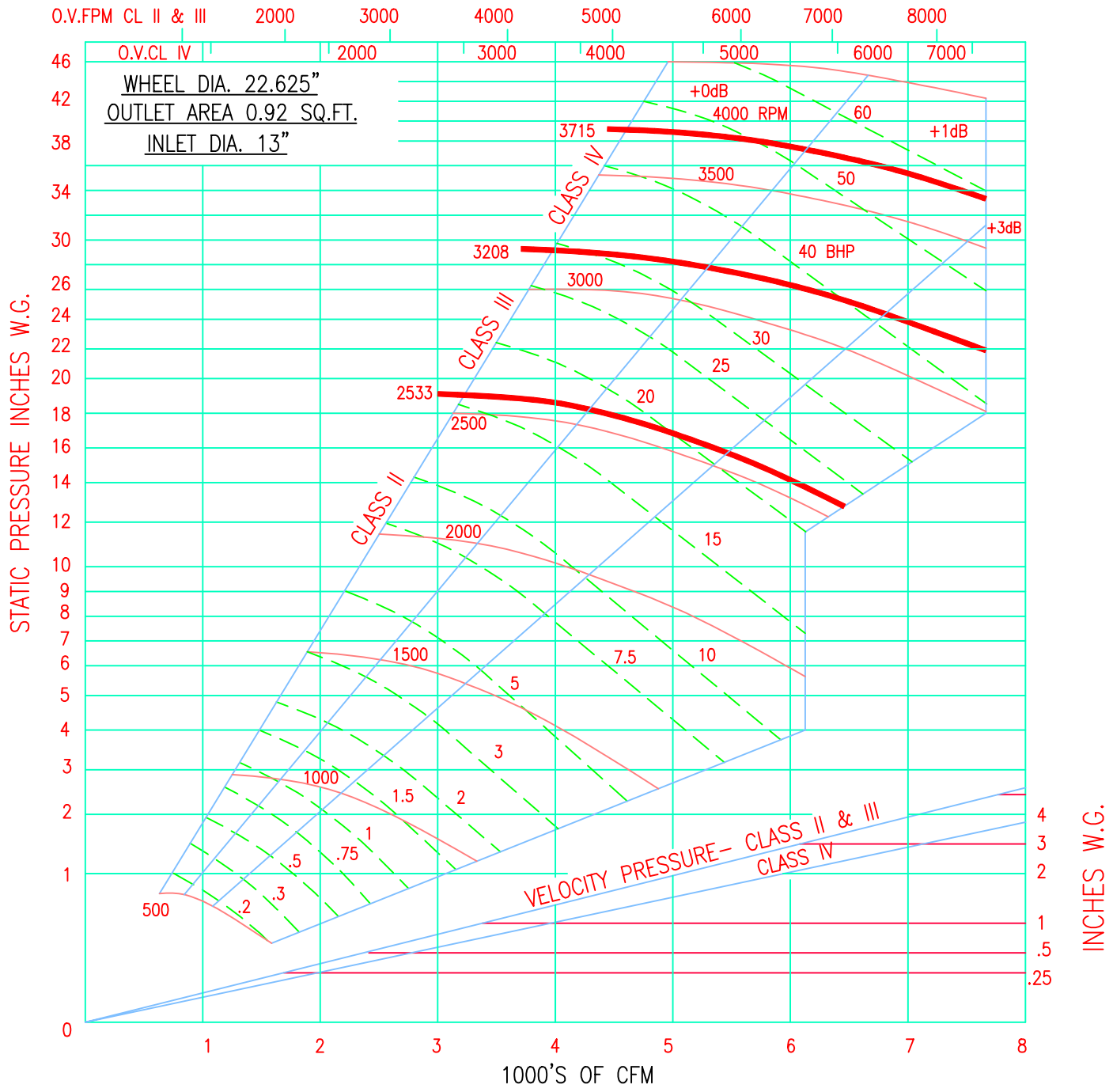
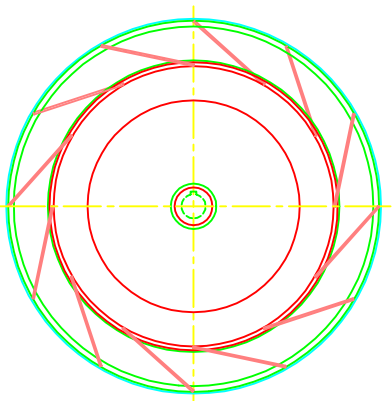
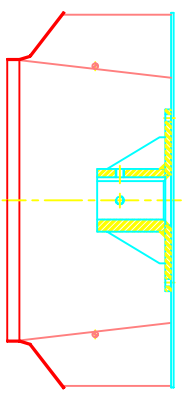
INDUSTRIAL EXHAUSTER
SIZE 13 XB AIR HANDLING WHEEL







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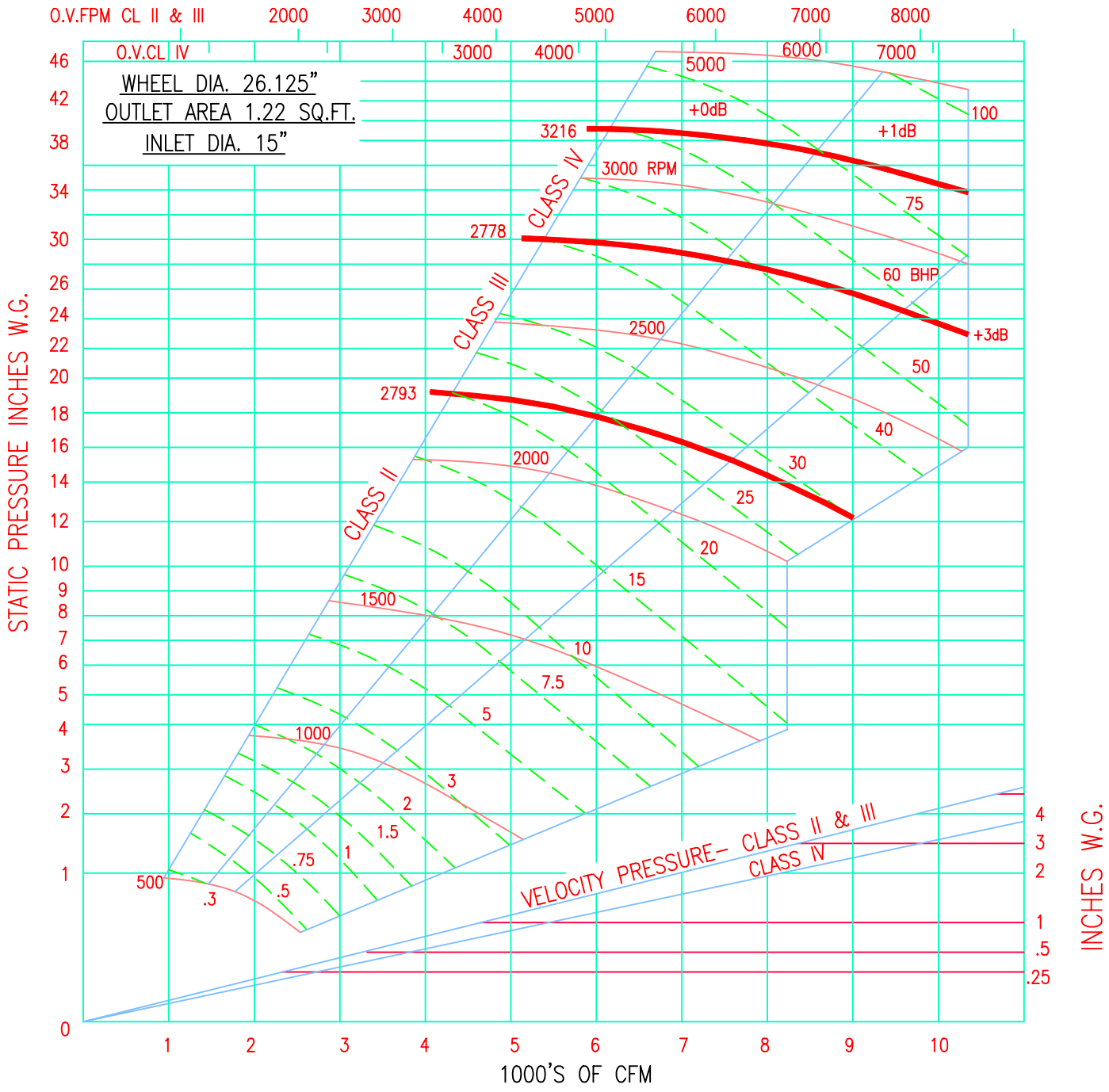
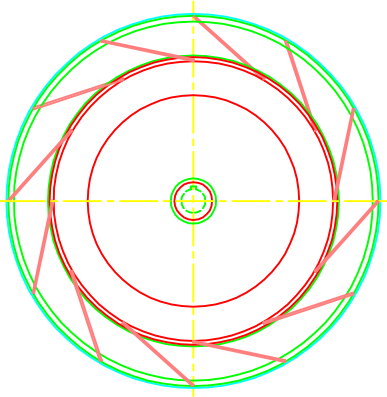
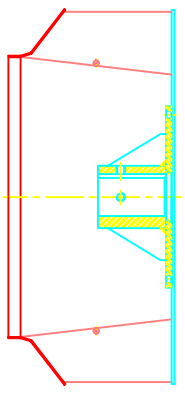
INDUSTRIAL EXHAUSTER
SIZE 15 XB AIR HANDLING WHEEL







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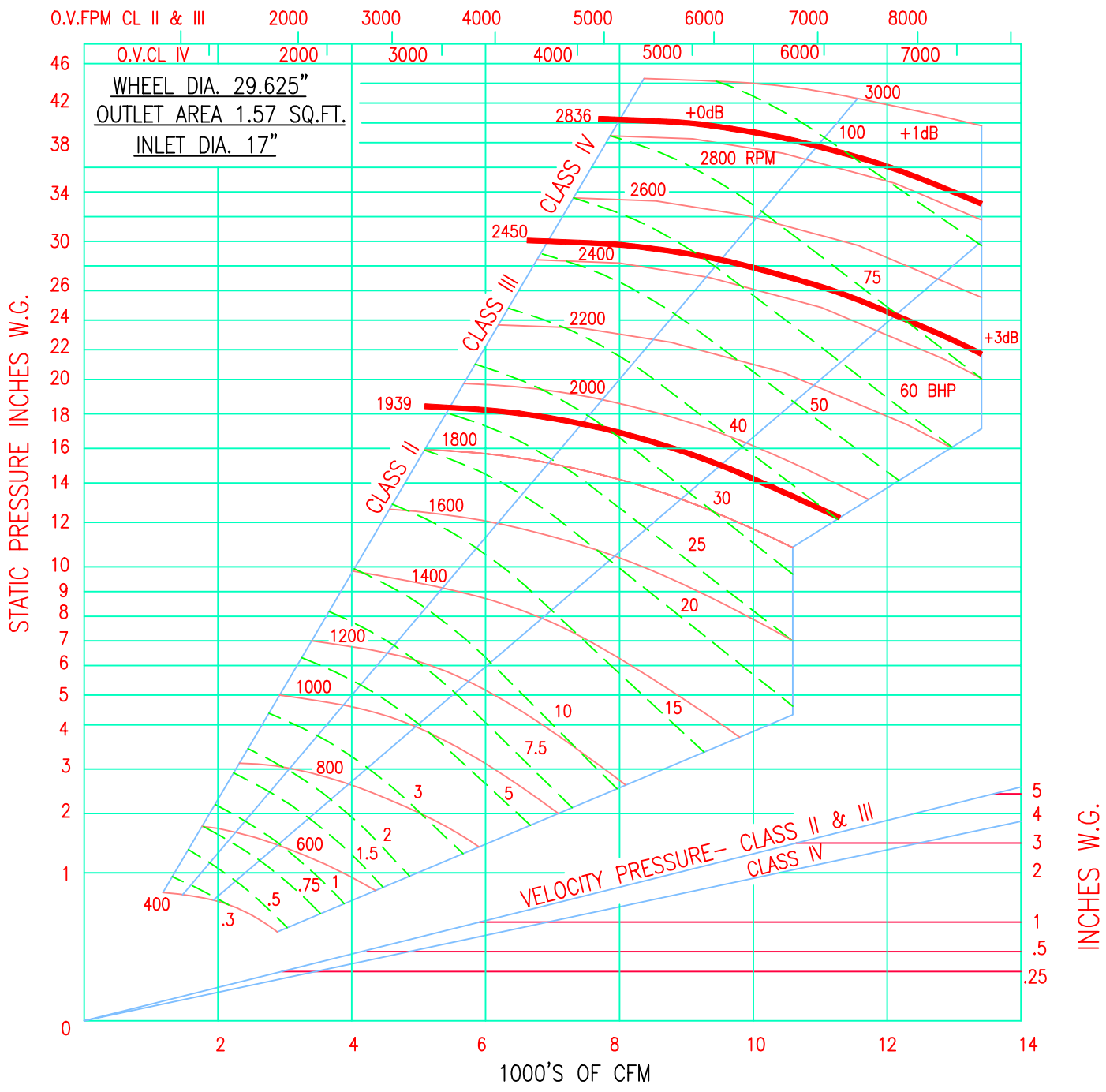
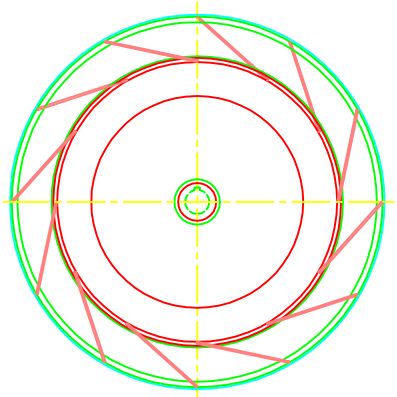
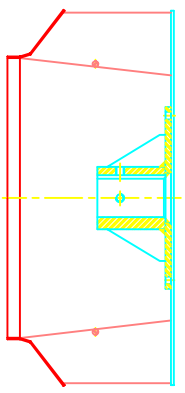
INDUSTRIAL EXHAUSTER
SIZE 17 XB AIR HANDLING WHEEL







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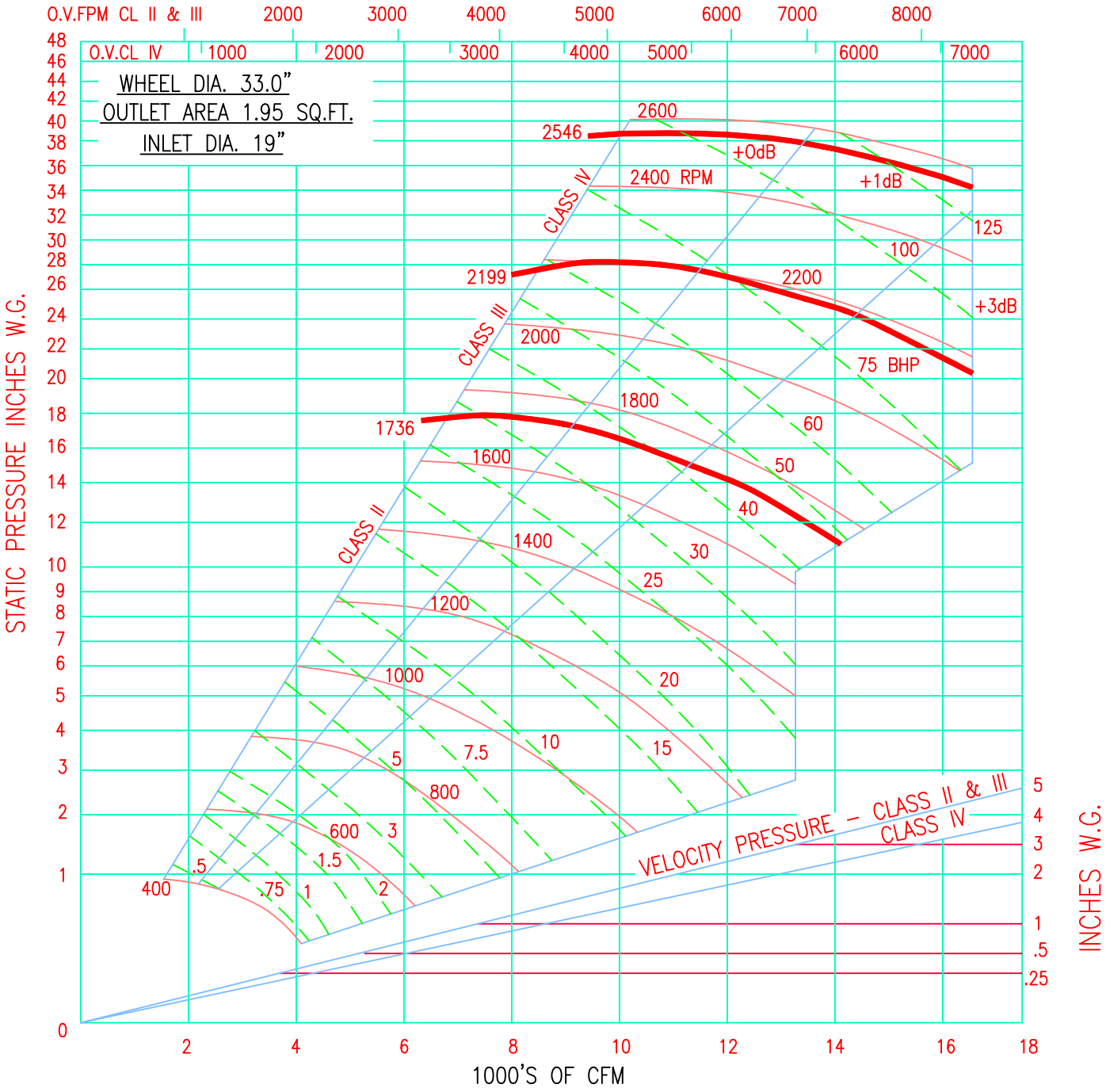
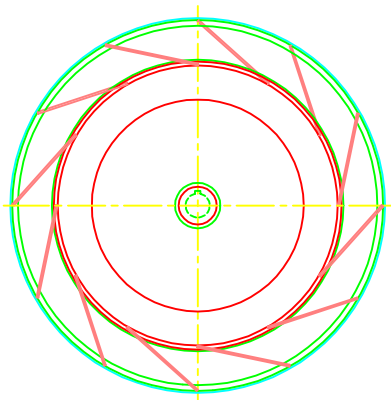
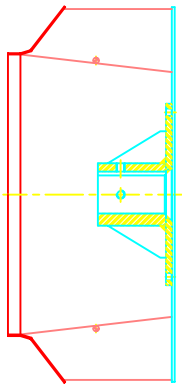
INDUSTRIAL EXHAUSTER
SIZE 19 XB AIR HANDLING WHEEL







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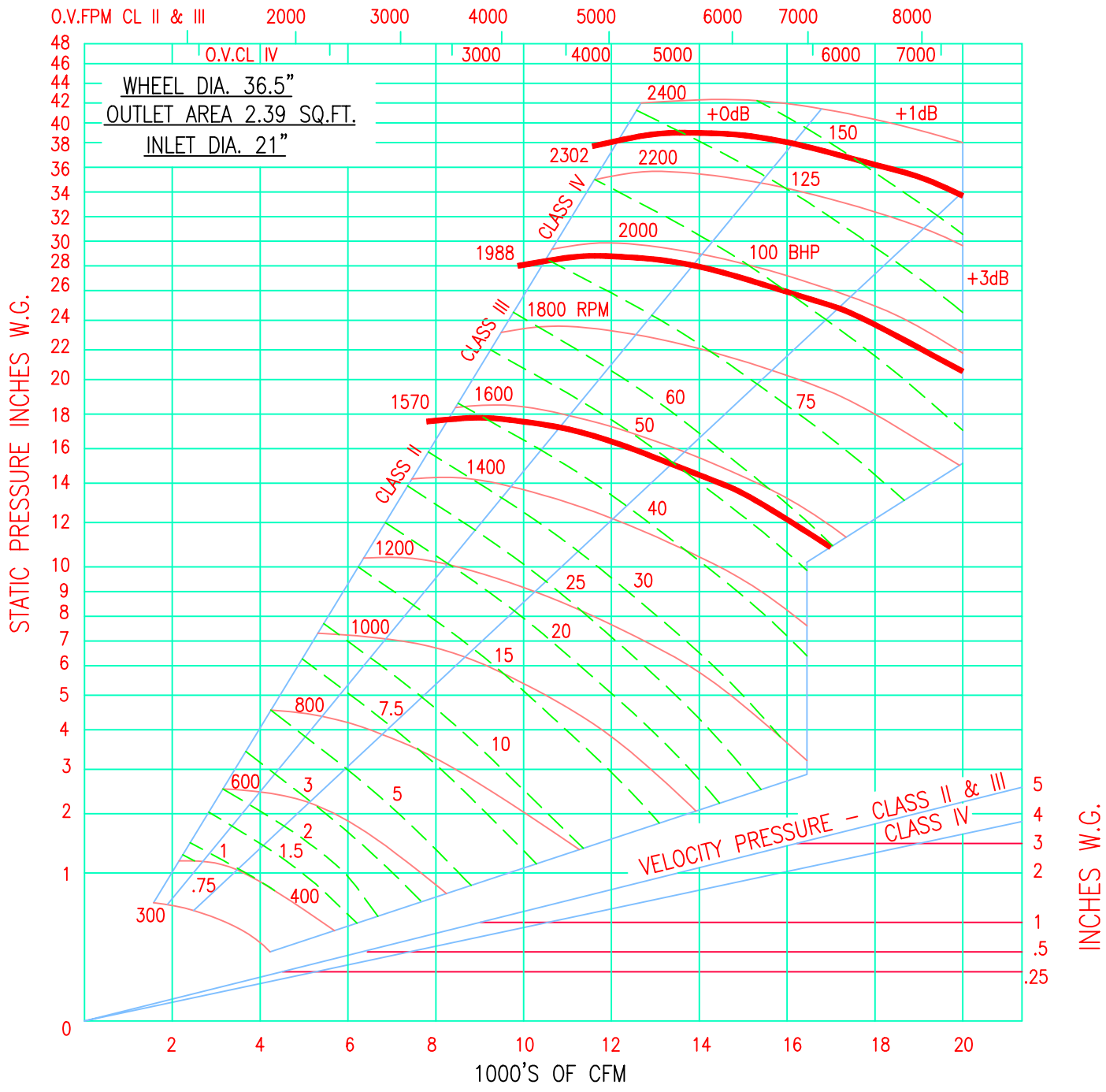
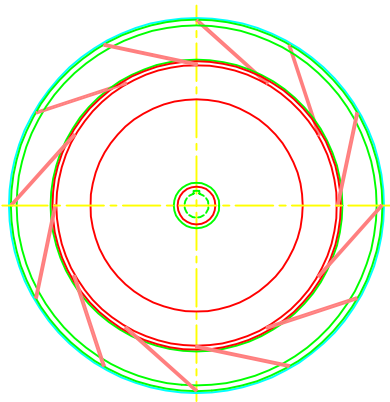
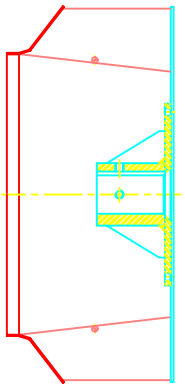
INDUSTRIAL EXHAUSTER
SIZE 21 XB AIR HANDLING WHEEL







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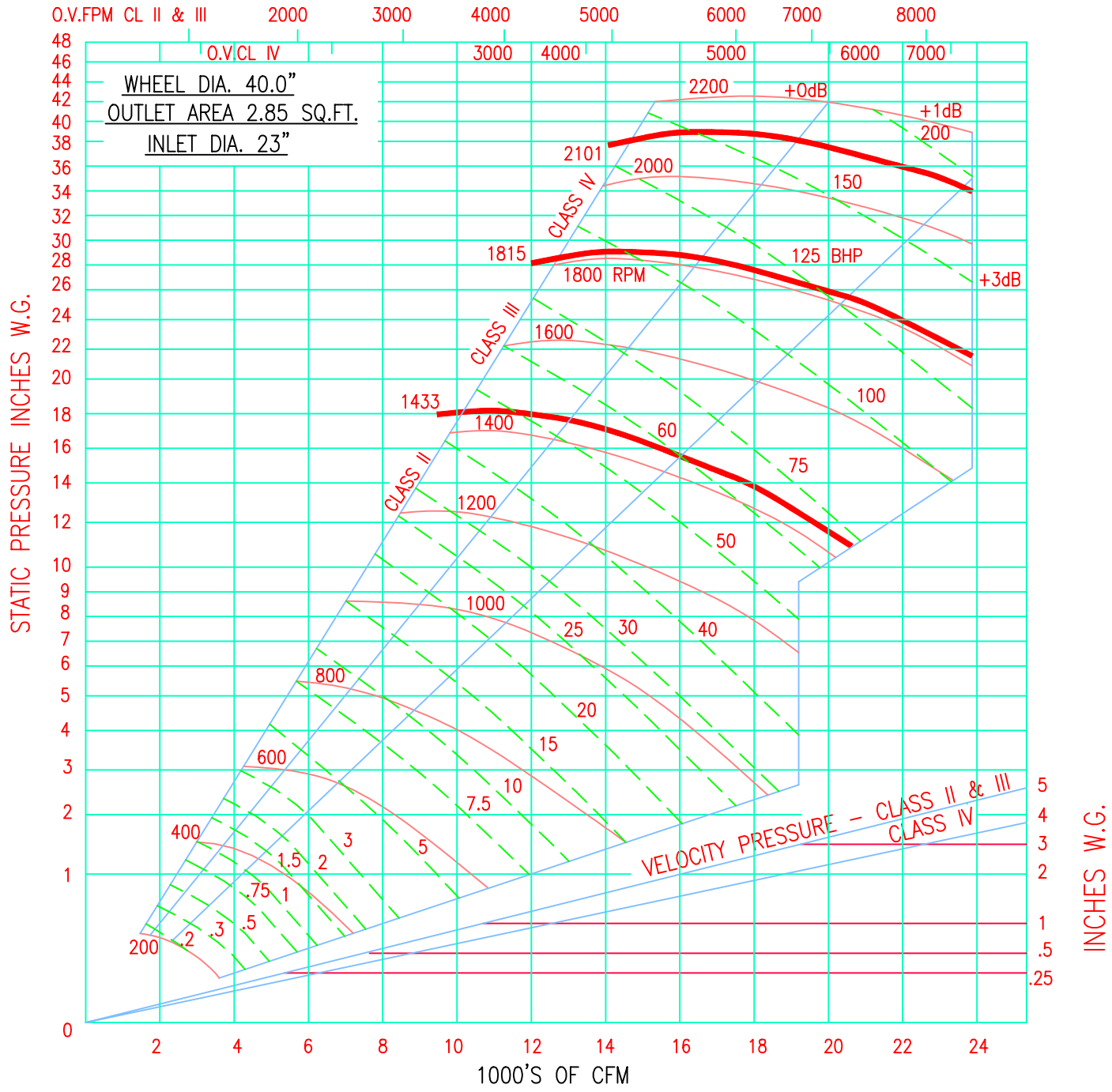
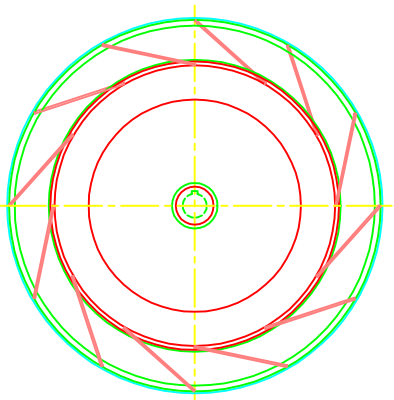
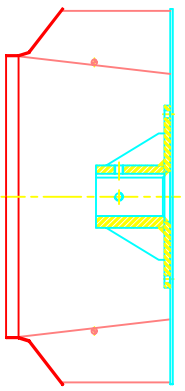
INDUSTRIAL EXHAUSTER
SIZE 23 XB AIR HANDLING WHEEL







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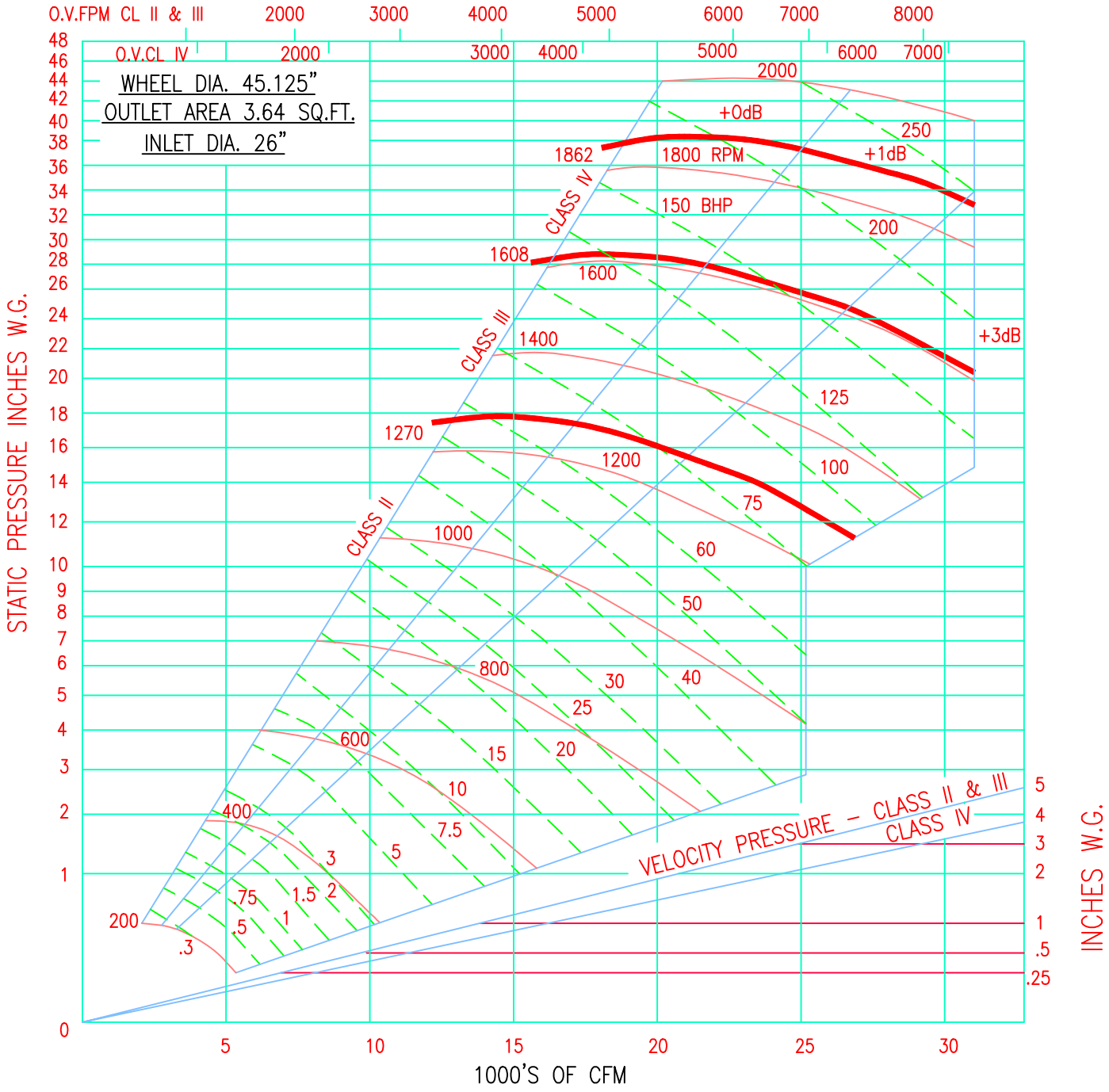
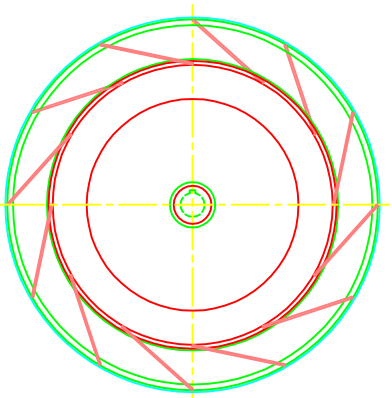
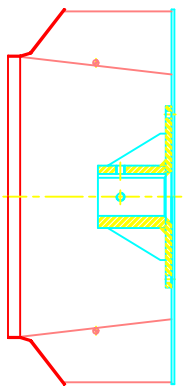
INDUSTRIAL EXHAUSTER
SIZE 26 XB AIR HANDLING WHEEL







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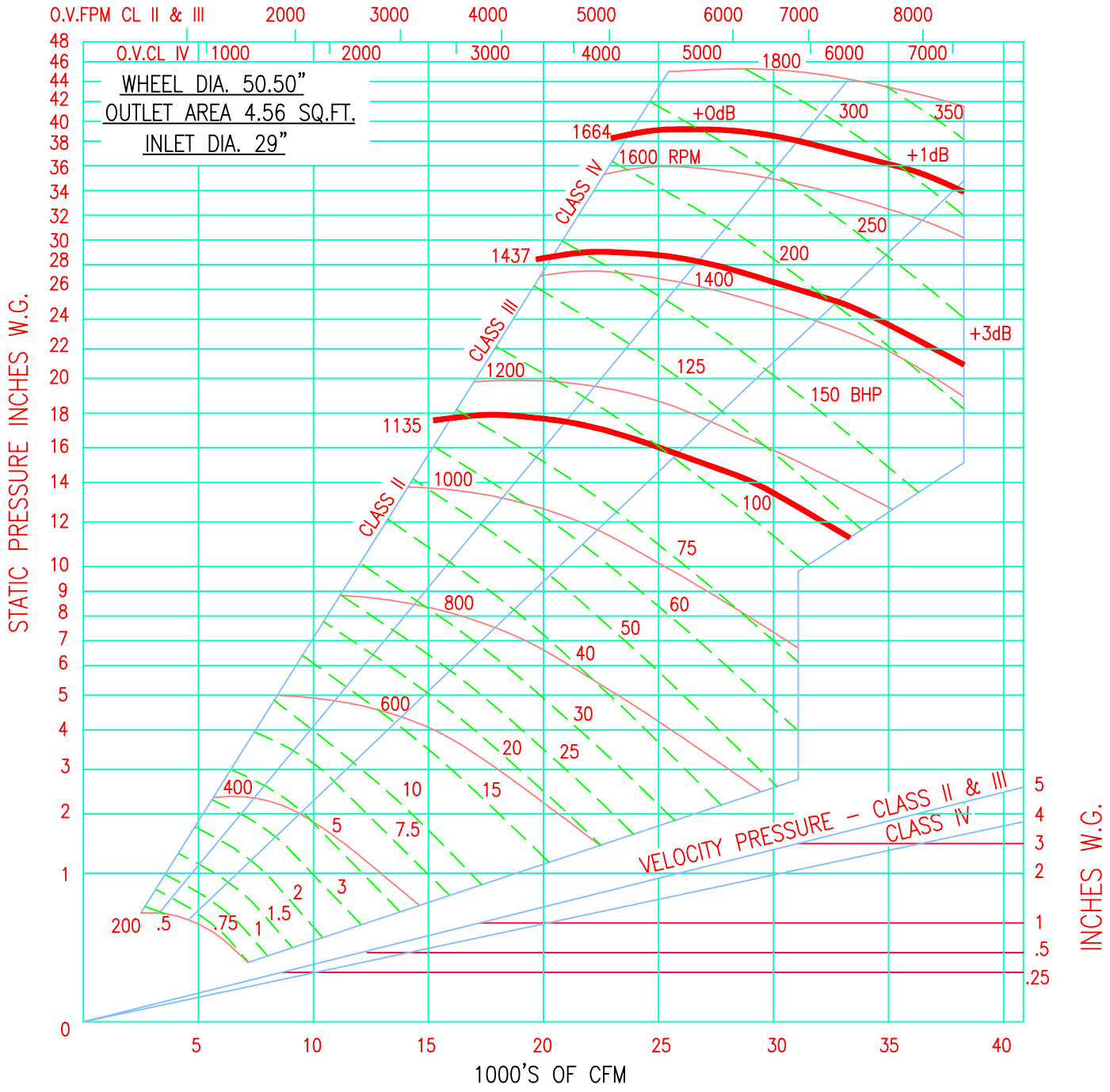
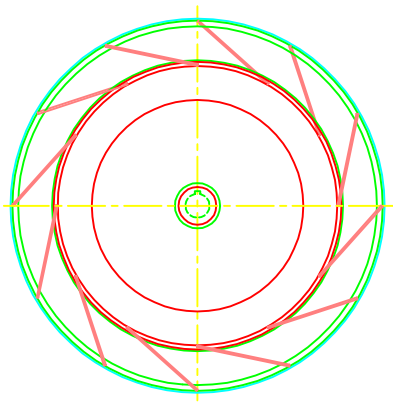
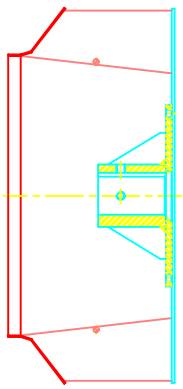
INDUSTRIAL EXHAUSTER
SIZE 29 XB AIR HANDLING WHEEL







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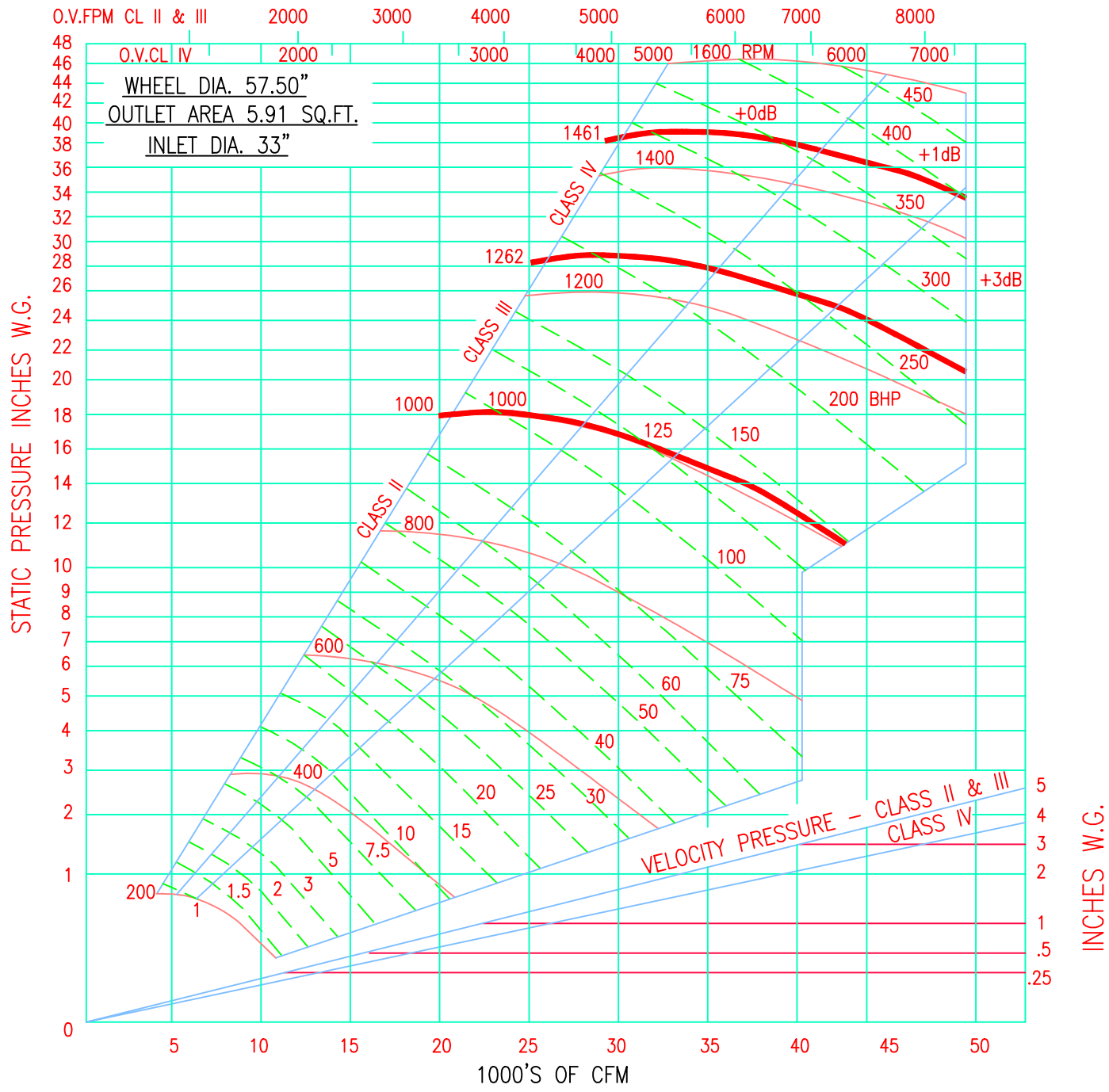
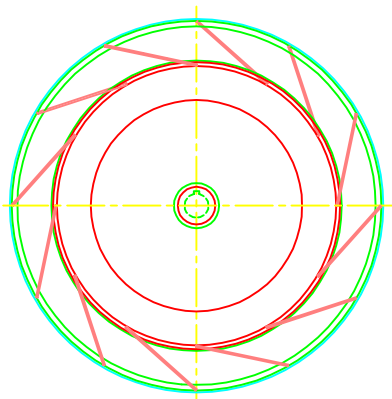
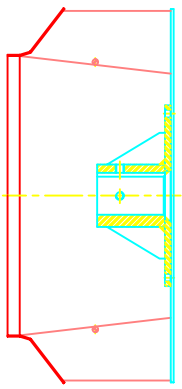
INDUSTRIAL EXHAUSTER
SIZE 33 XB AIR HANDLING WHEEL







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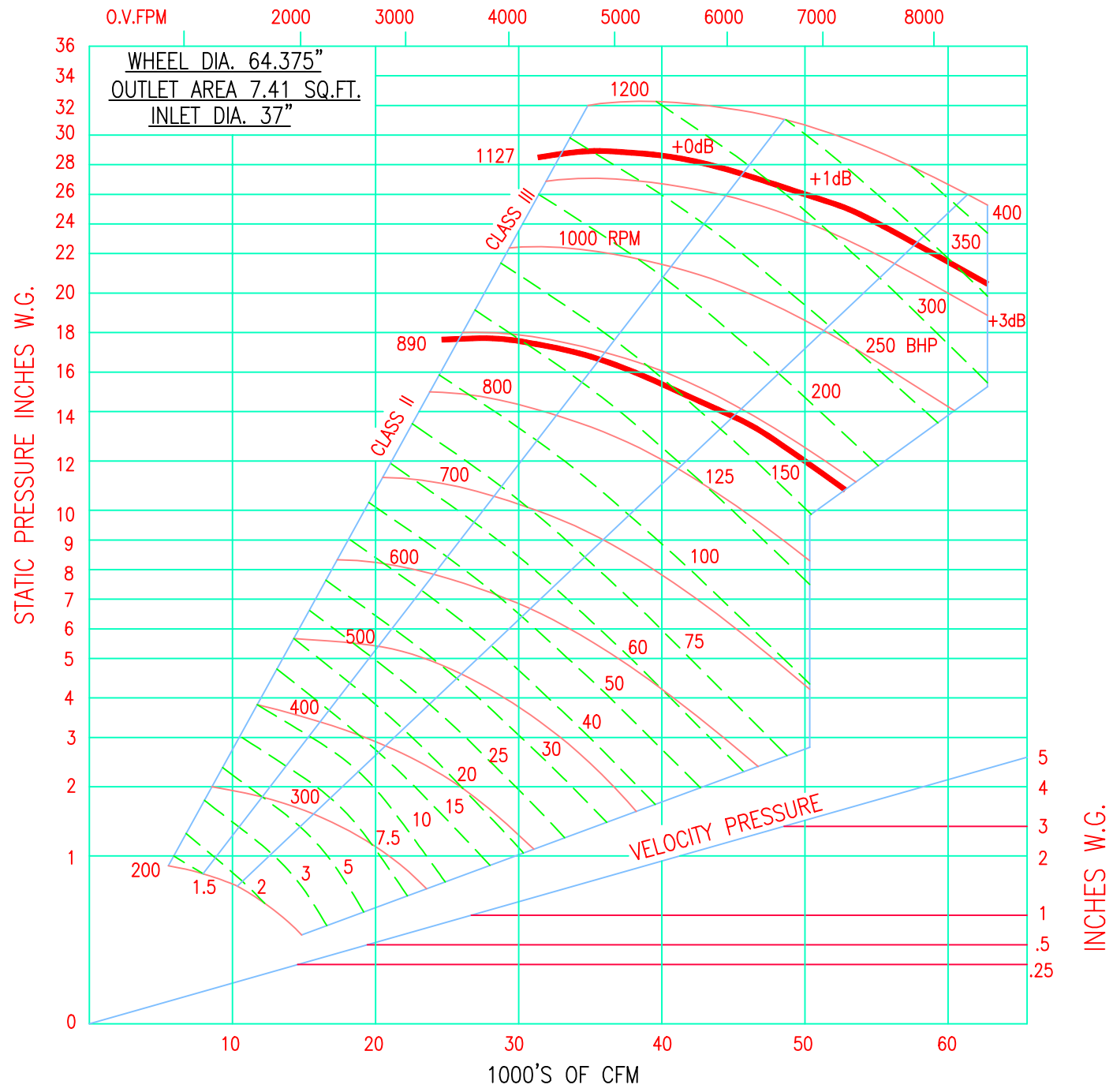
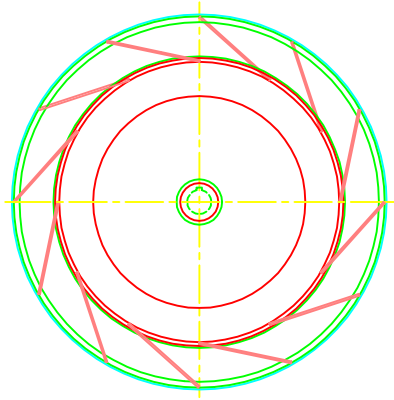
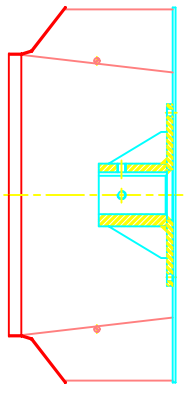
INDUSTRIAL EXHAUSTER
SIZE 37 XB AIR HANDLING WHEEL







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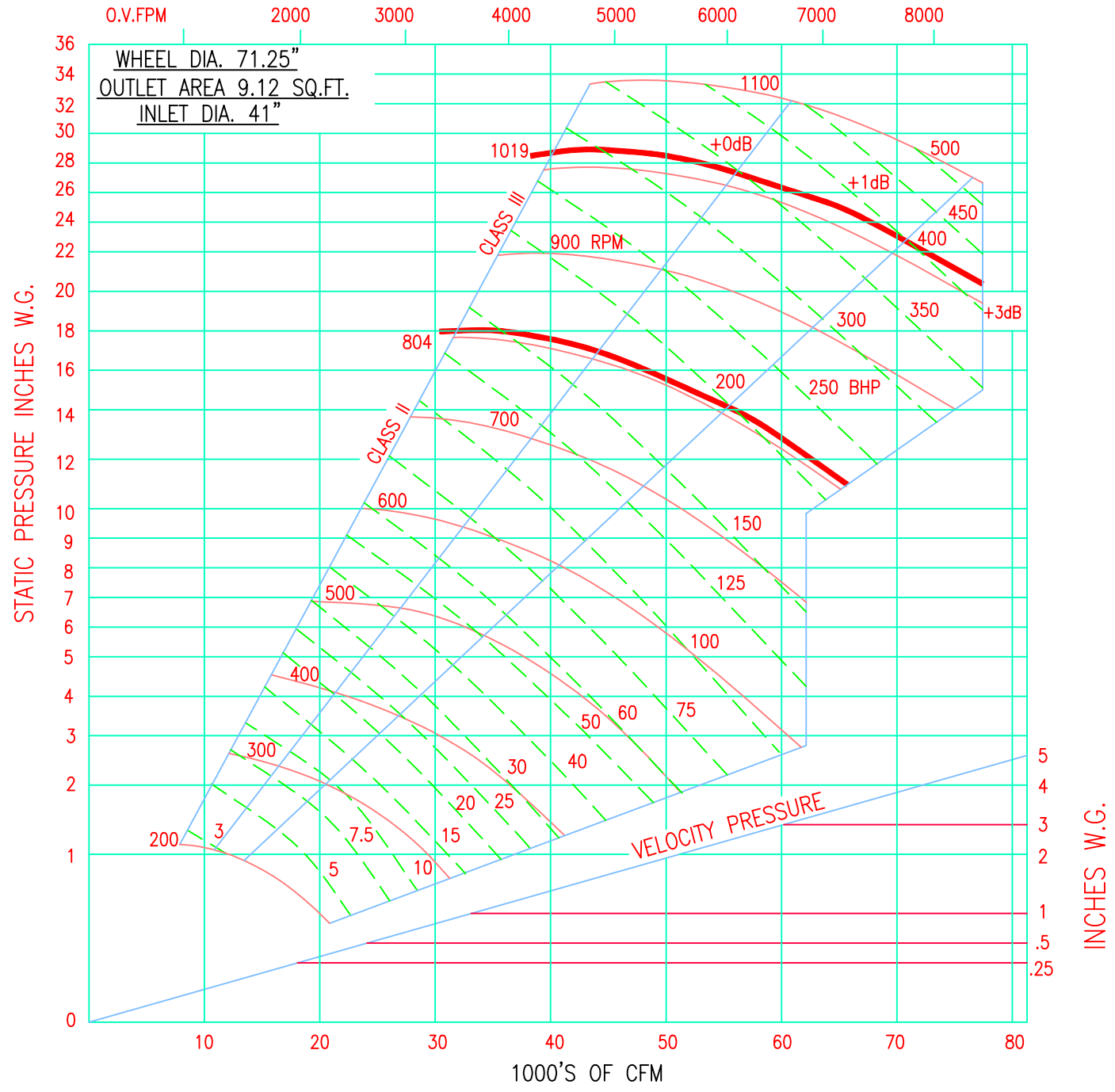
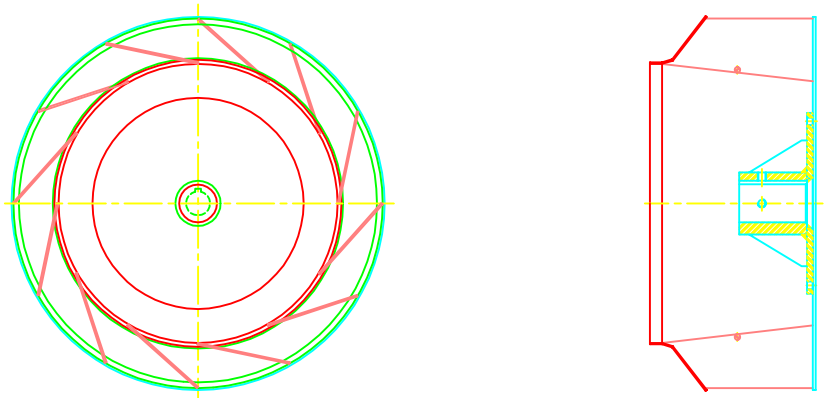
INDUSTRIAL EXHAUSTER
SIZE 41 XB AIR HANDLING WHEEL





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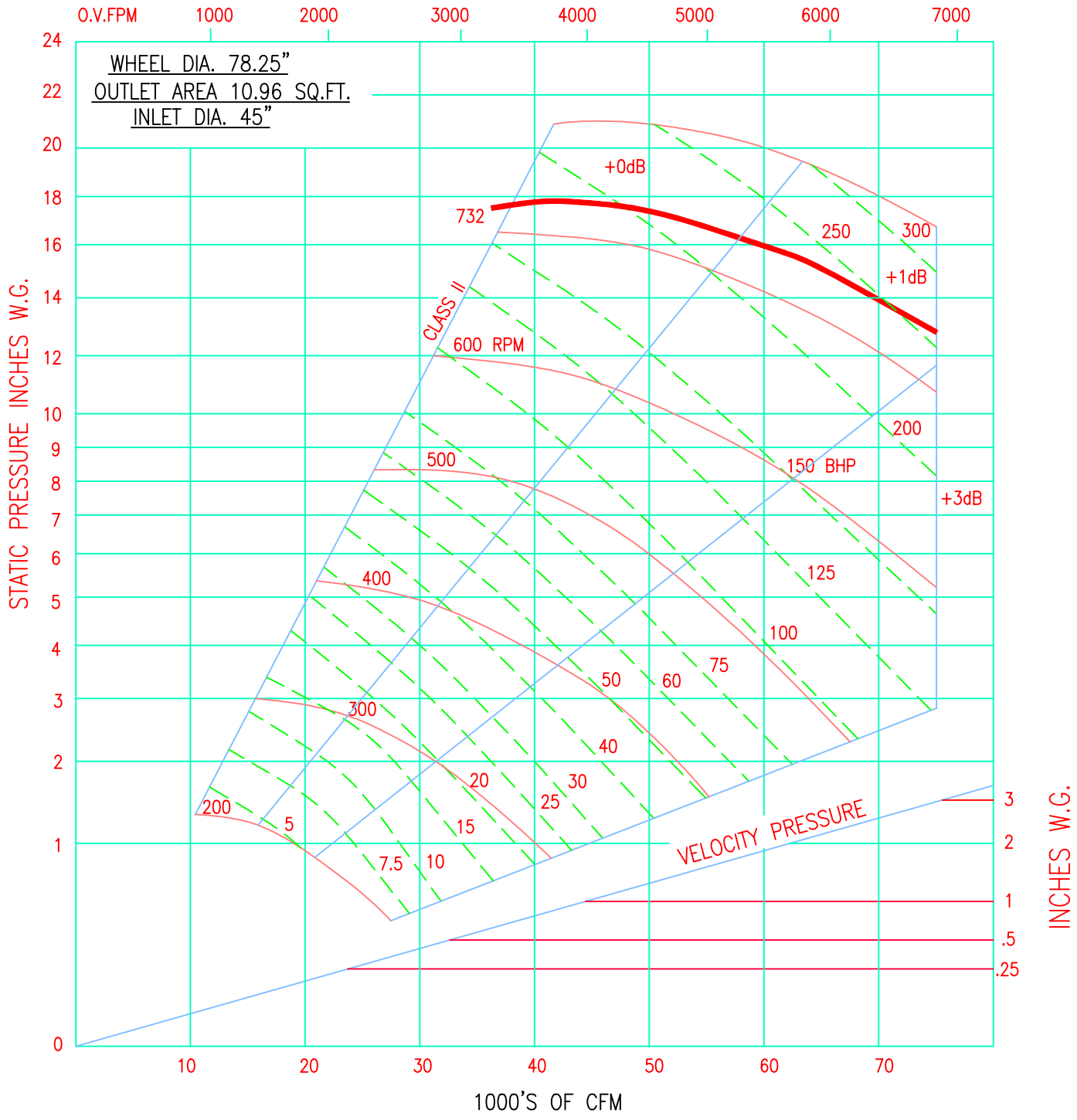
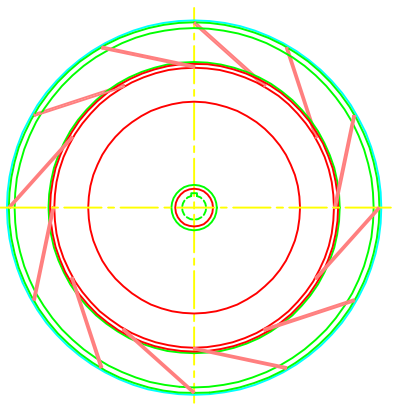
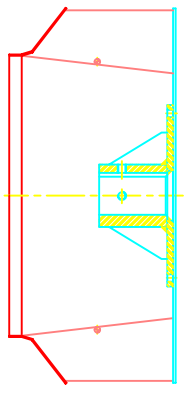
INDUSTRIAL EXHAUSTER
SIZE 45 XB AIR HANDLING WHEEL







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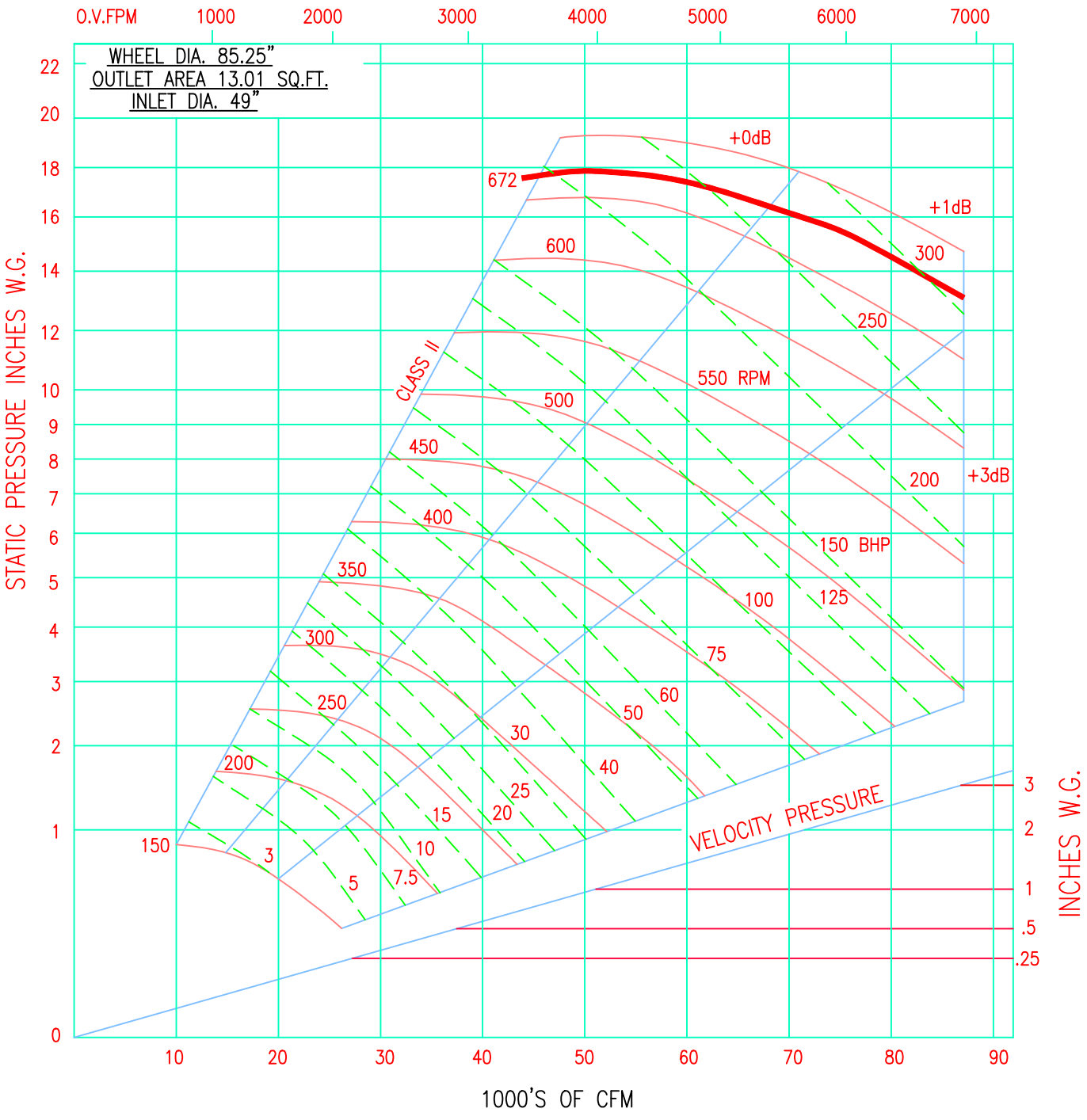
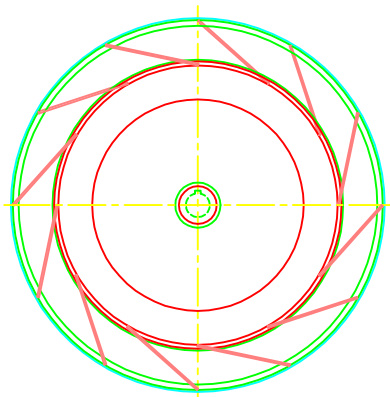
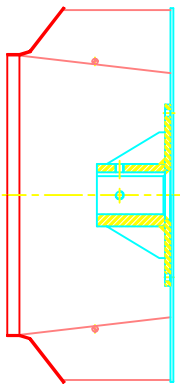
INDUSTRIAL EXHAUSTER
SIZE 49 XB AIR HANDLING WHEEL







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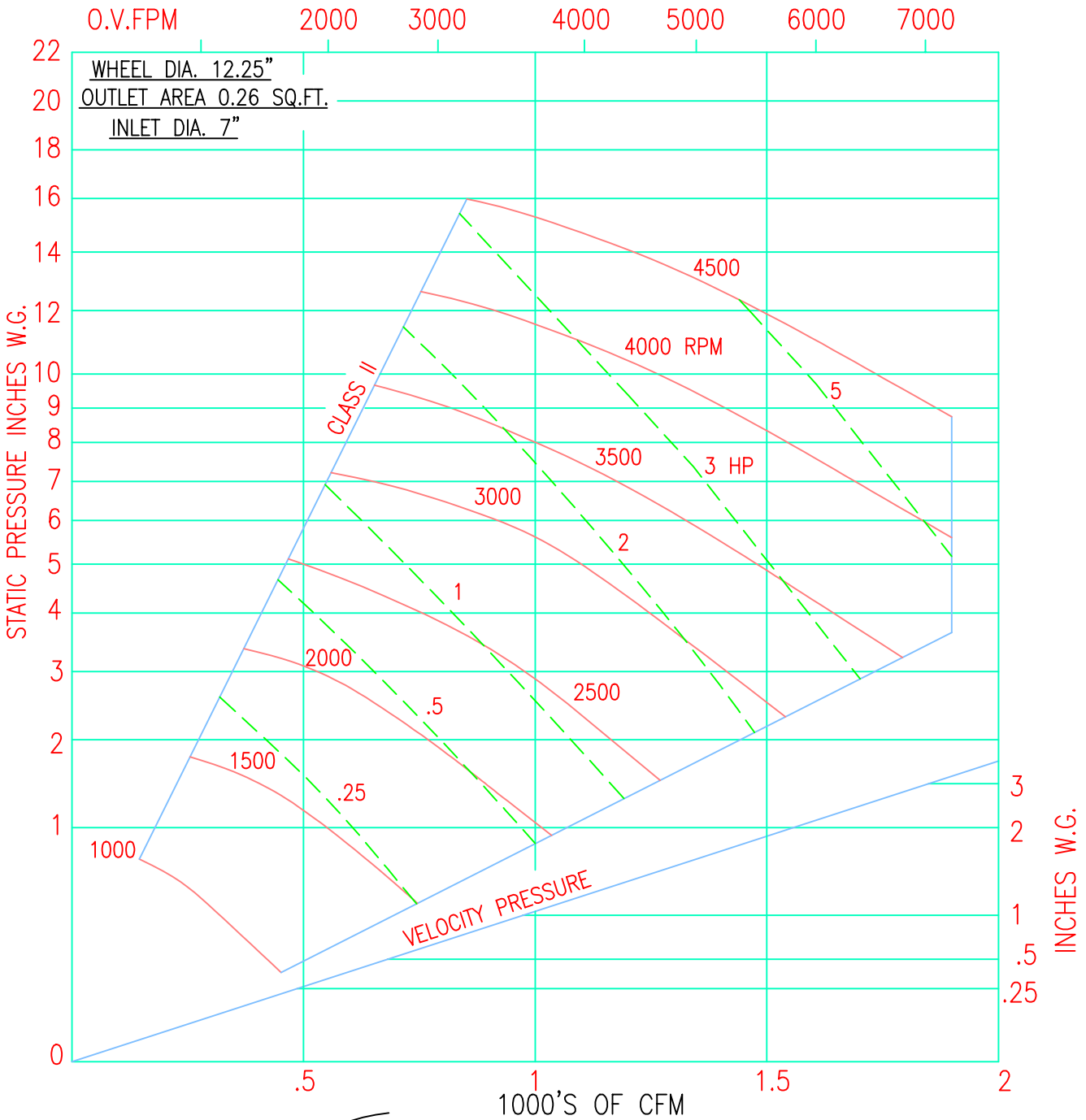
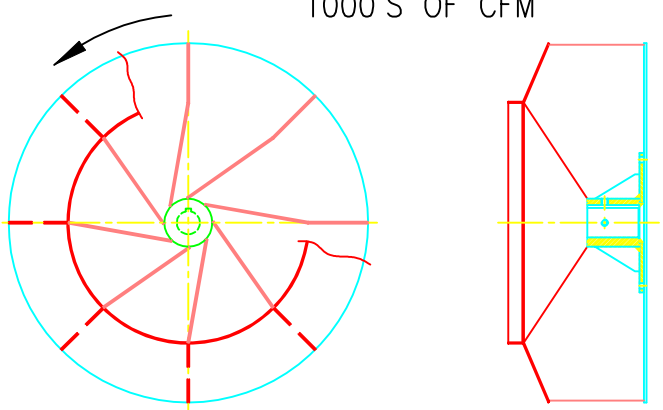
INDUSTRIAL EXHAUSTER
SIZE 7 XS RADIAL WHEEL





"CLOCK WISE" WHEEL SHOWN

JULY/2001

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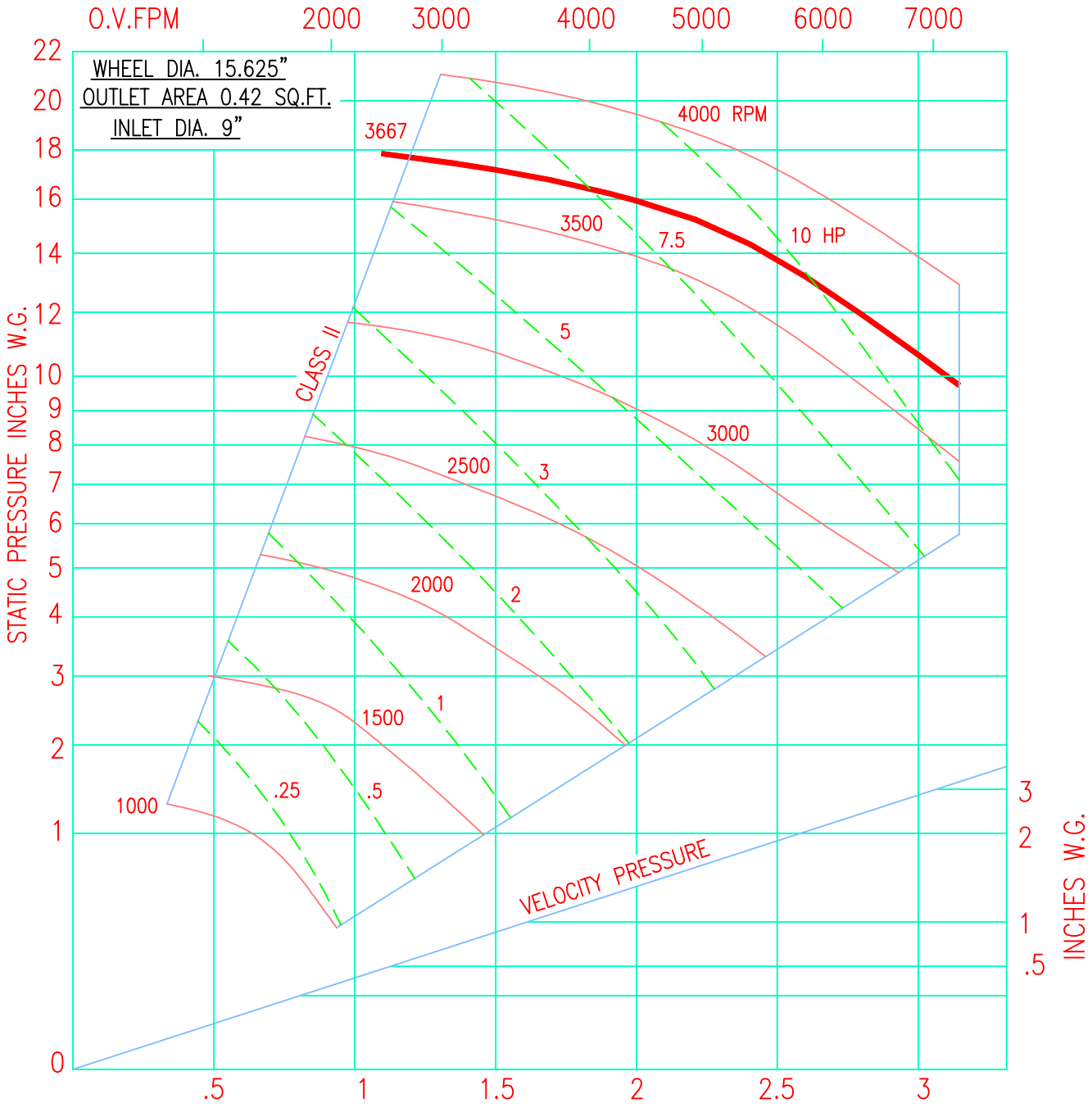
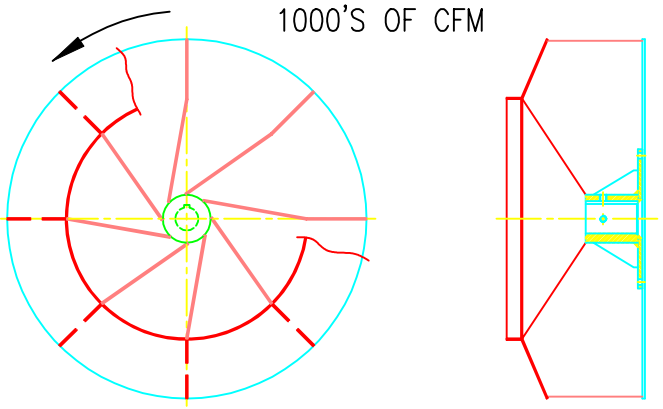
INDUSTRIAL EXHAUSTER
SIZE 9 XS RADIAL WHEEL





"CLOCK WISE" WHEEL SHOWN

JULY/2001

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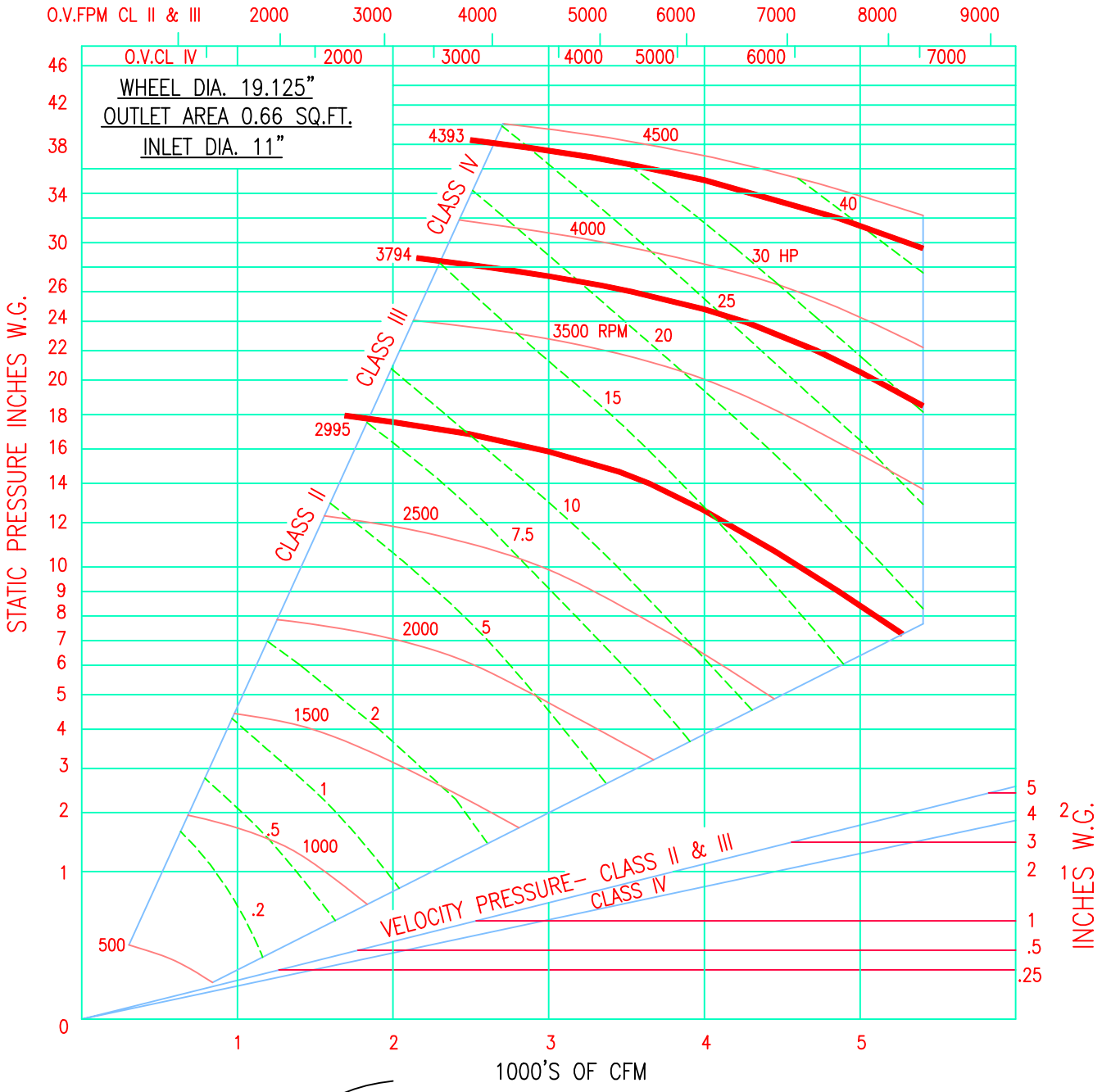
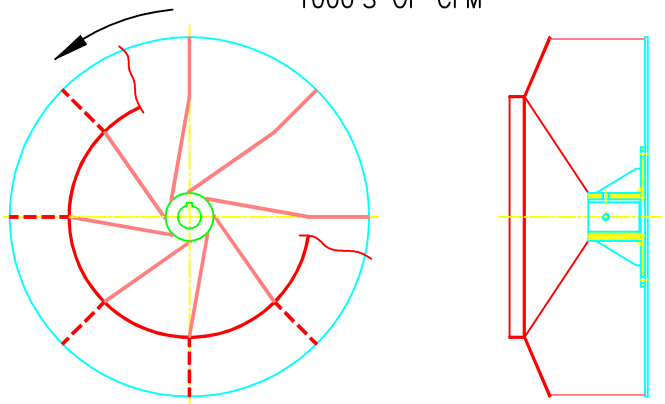
INDUSTRIAL EXHAUSTER
SIZE 11 XS RADIAL WHEEL





"CLOCK WISE" WHEEL SHOWN

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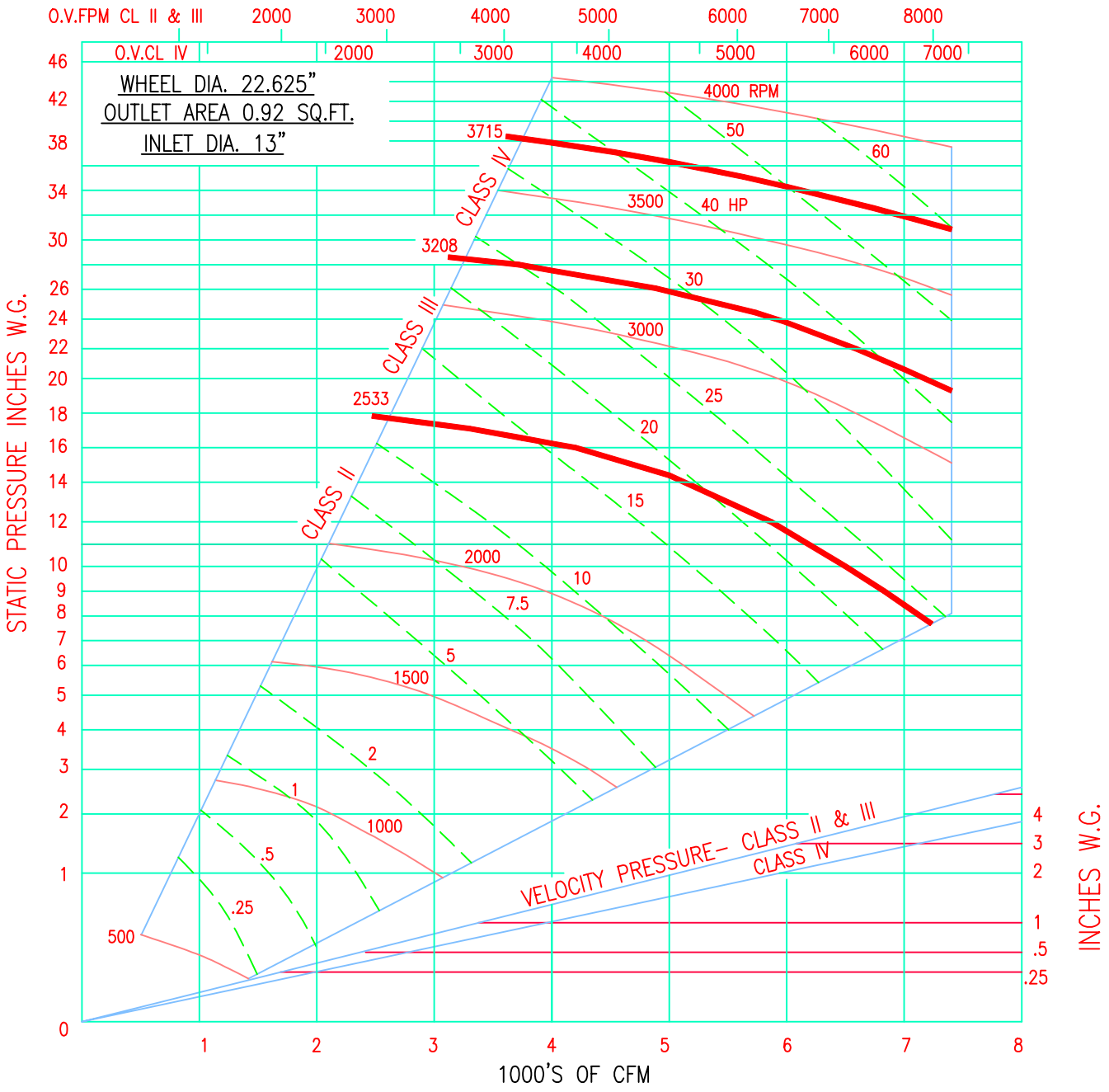
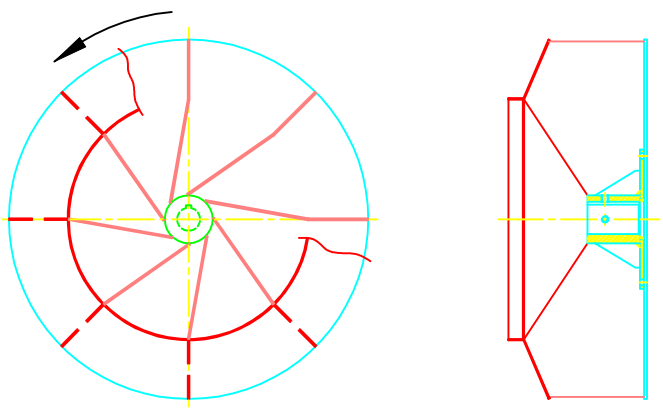
INDUSTRIAL EXHAUSTER
SIZE 13 XS RADIAL WHEEL





"CLOCK WISE" WHEEL SHOWN

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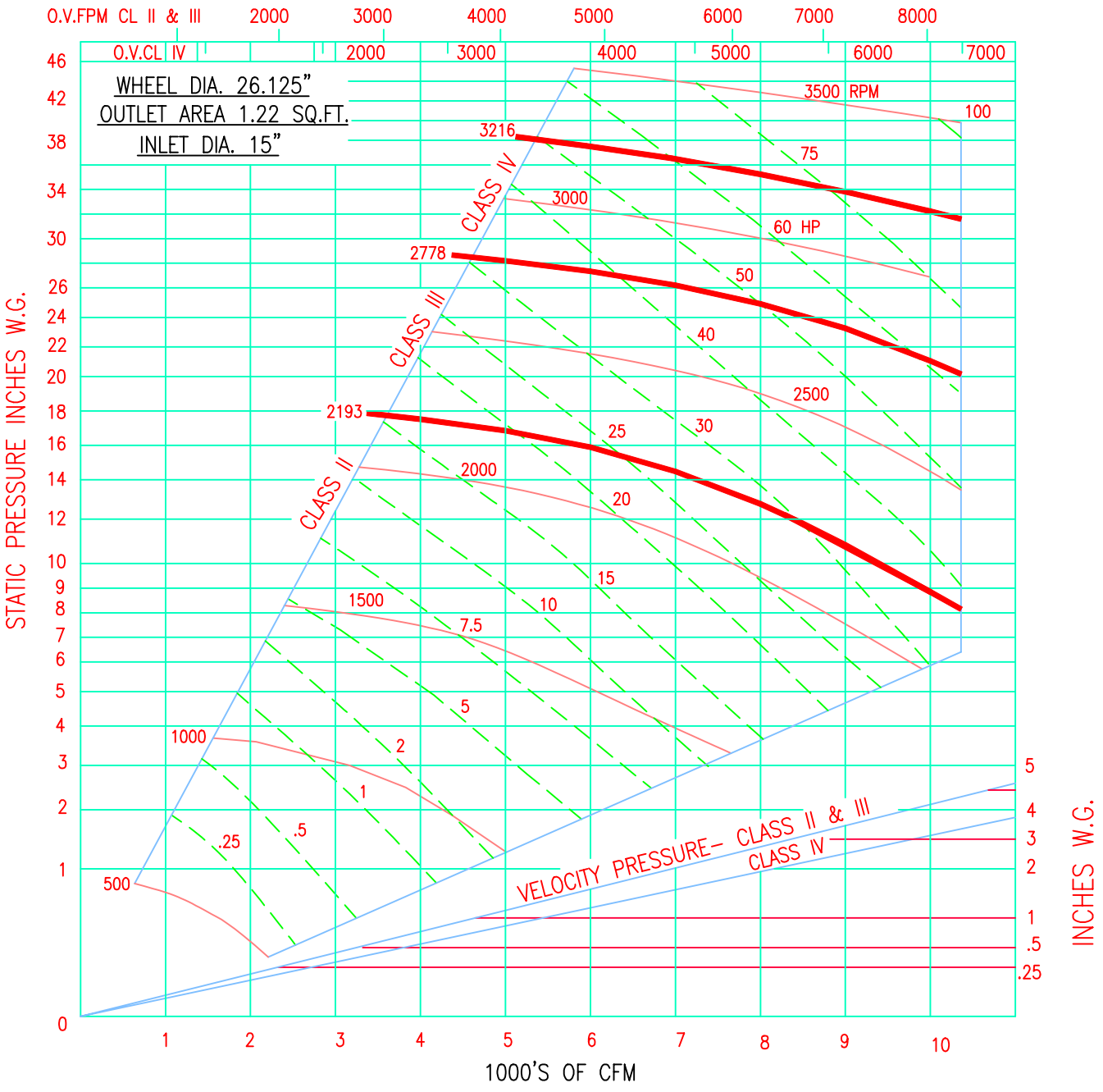
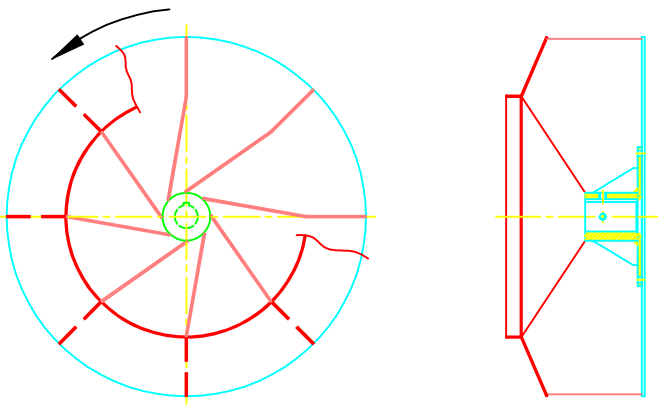
INDUSTRIAL EXHAUSTER
SIZE 15 XS RADIAL WHEEL





"CLOCK WISE" WHEEL SHOWN

JULY/2001

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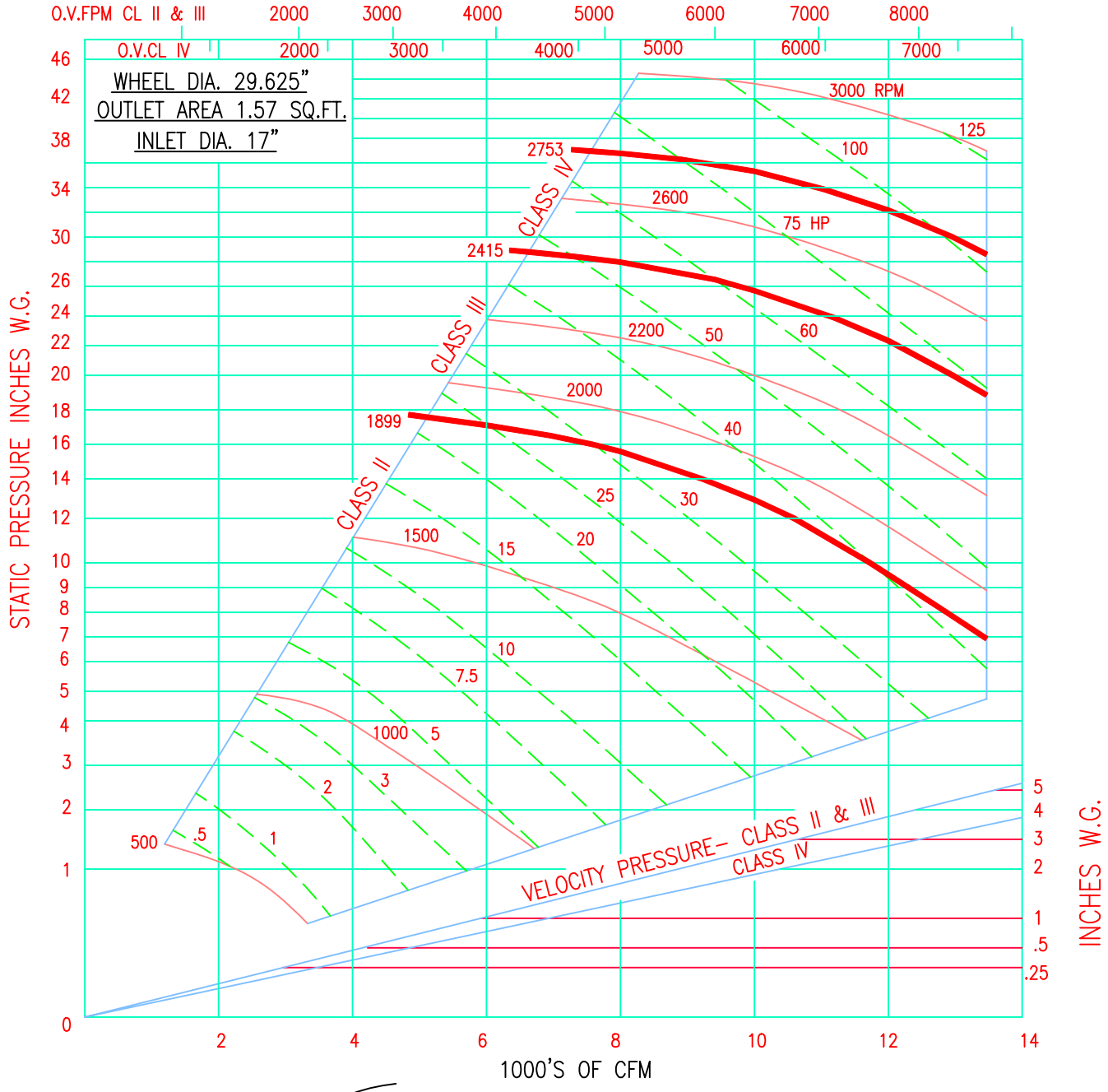
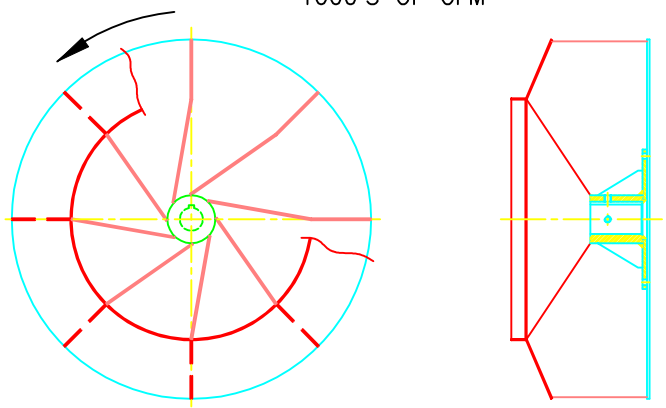
INDUSTRIAL EXHAUSTER
SIZE 17 XS RADIAL WHEEL





"CLOCK WISE" WHEEL SHOWN

JULY/2001

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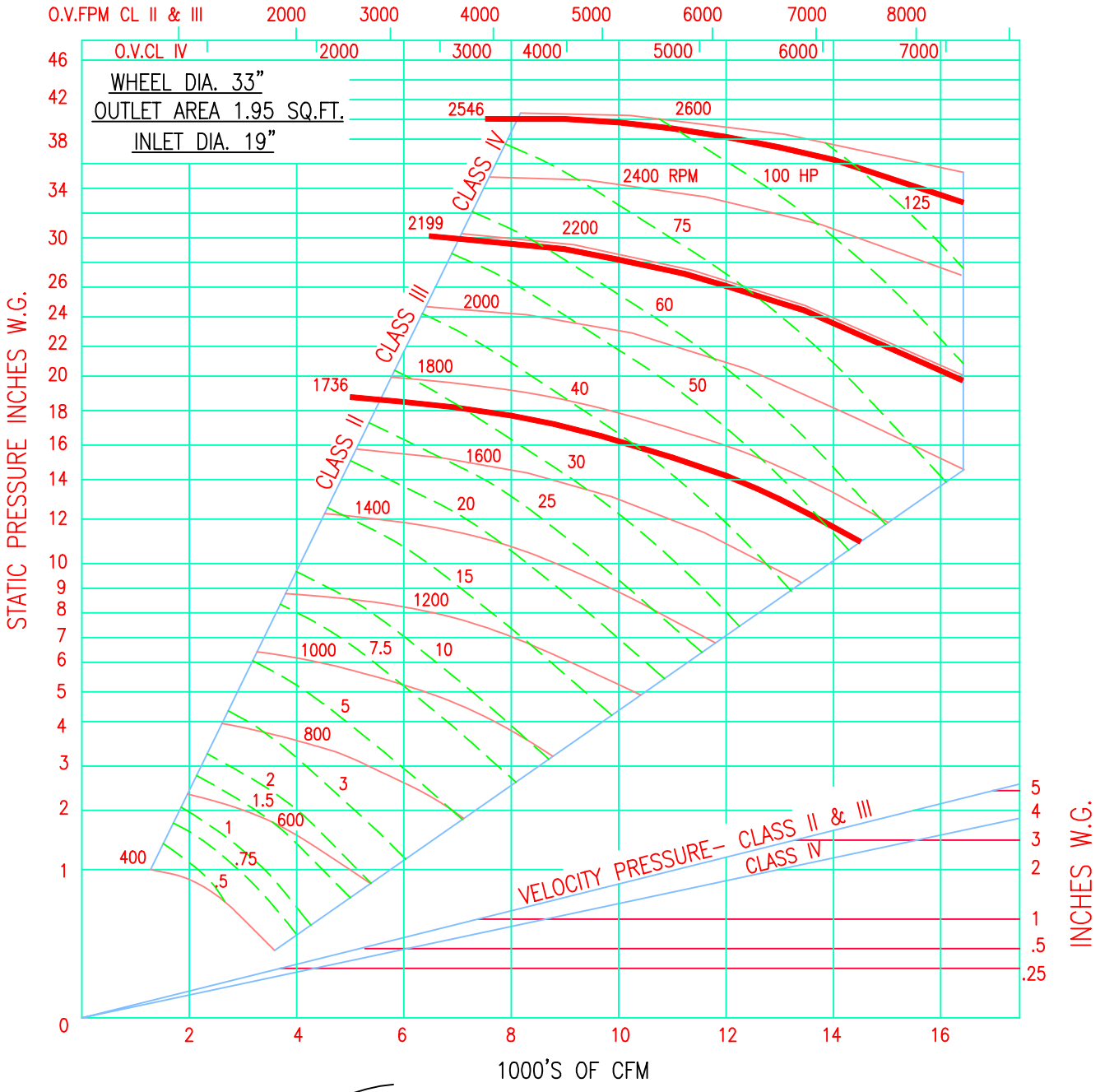
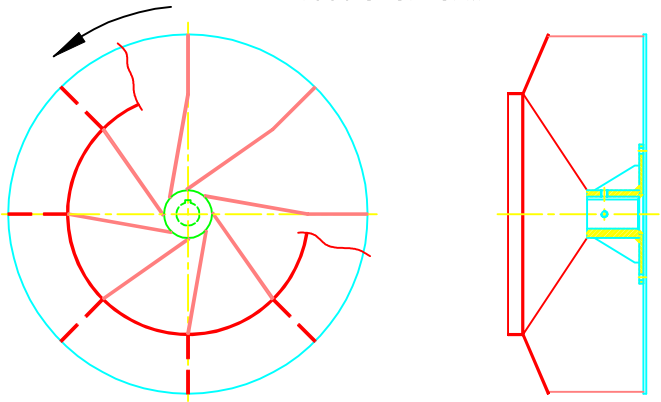
INDUSTRIAL EXHAUSTER
SIZE 19 XS RADIAL WHEEL





"CLOCK WISE" WHEEL SHOWN

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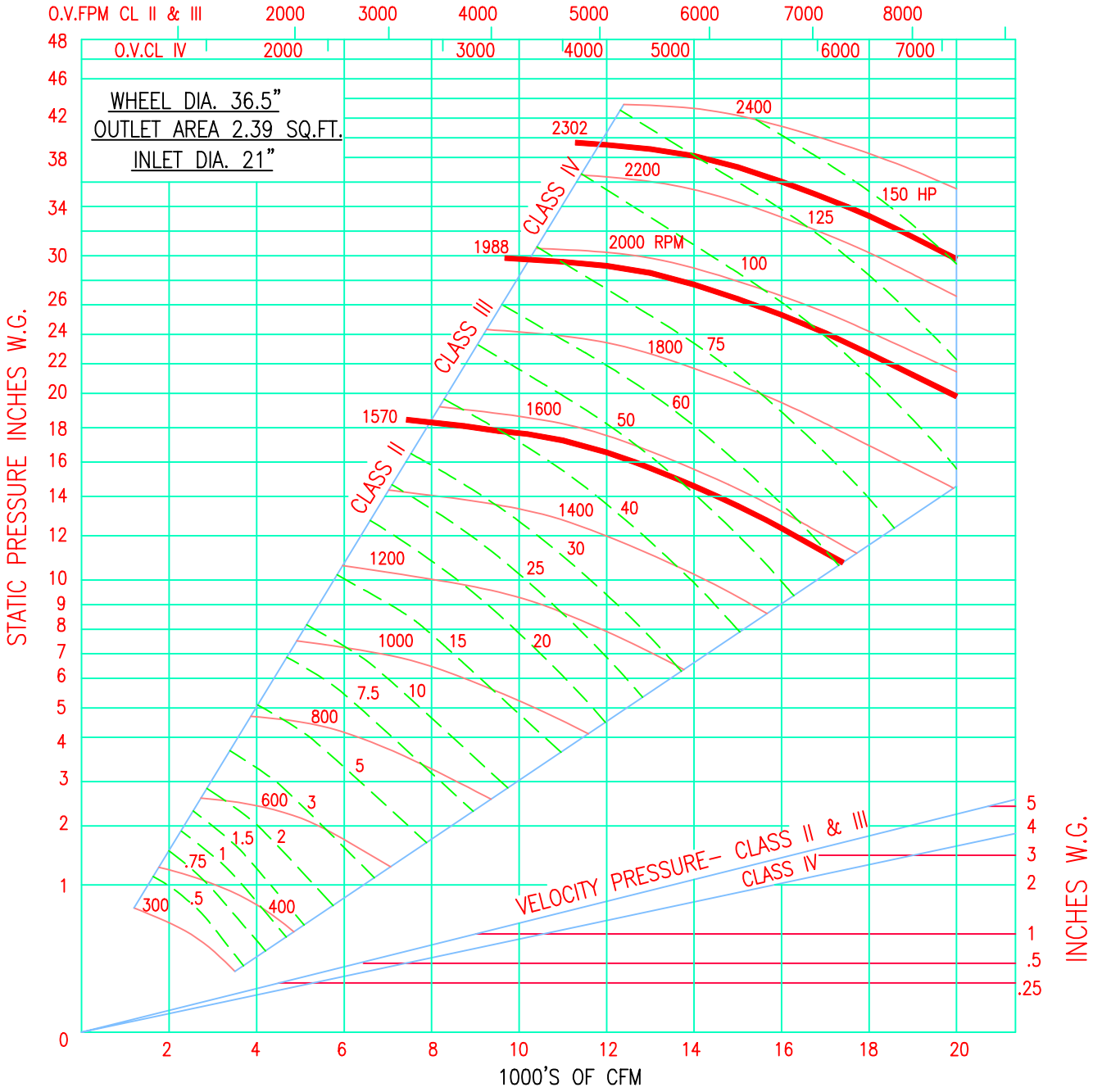
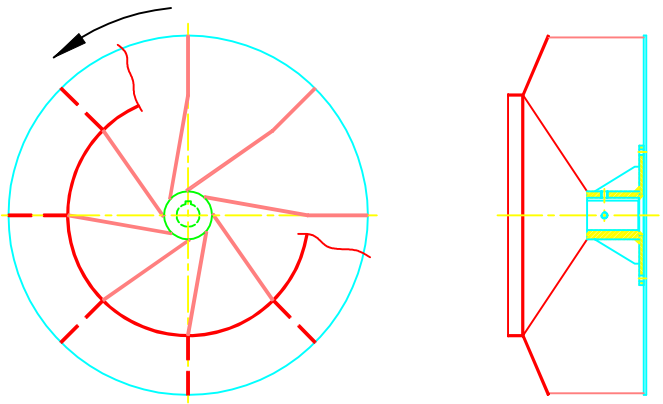
INDUSTRIAL EXHAUSTER
SIZE 21 XS RADIAL WHEEL





"CLOCK WISE" WHEEL SHOWN

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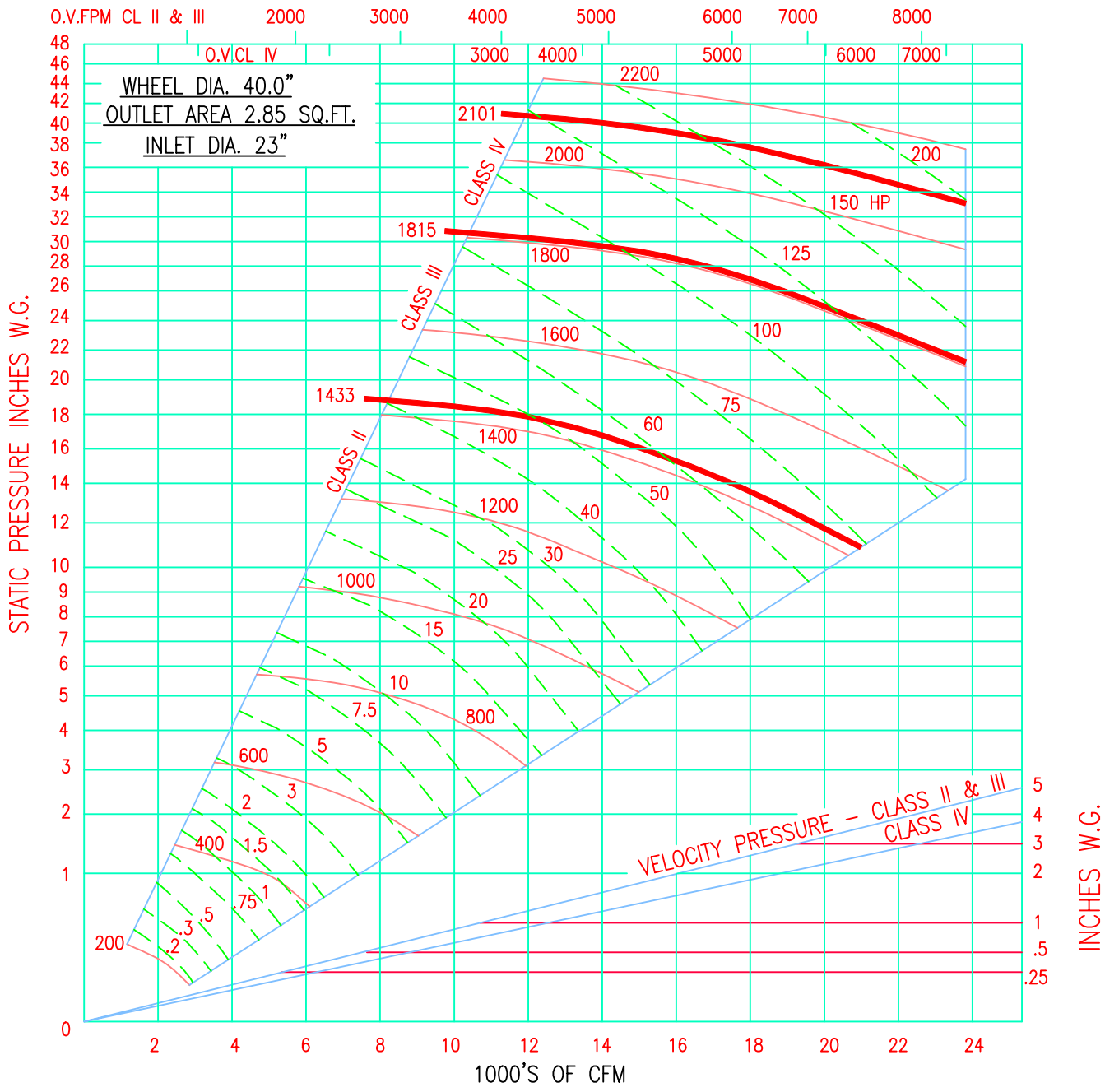
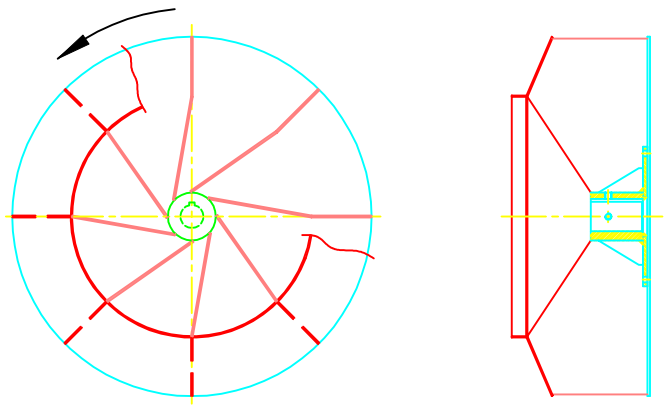
INDUSTRIAL EXHAUSTER
SIZE 23 XS RADIAL WHEEL





"CLOCK WISE" WHEEL SHOWN

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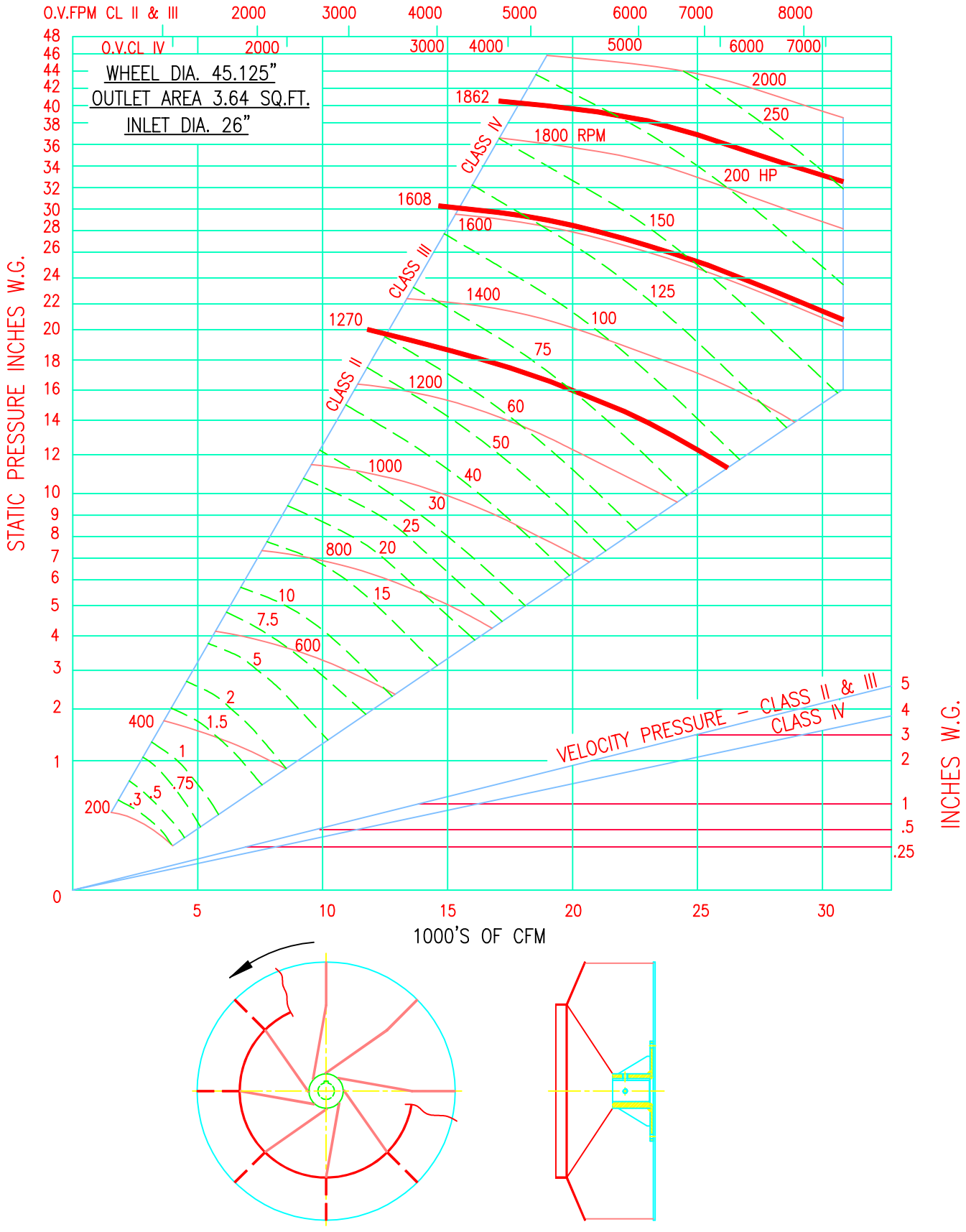
INDUSTRIAL EXHAUSTER
SIZE 26 XS RADIAL WHEEL



"CLOCK WISE" WHEEL SHOWN

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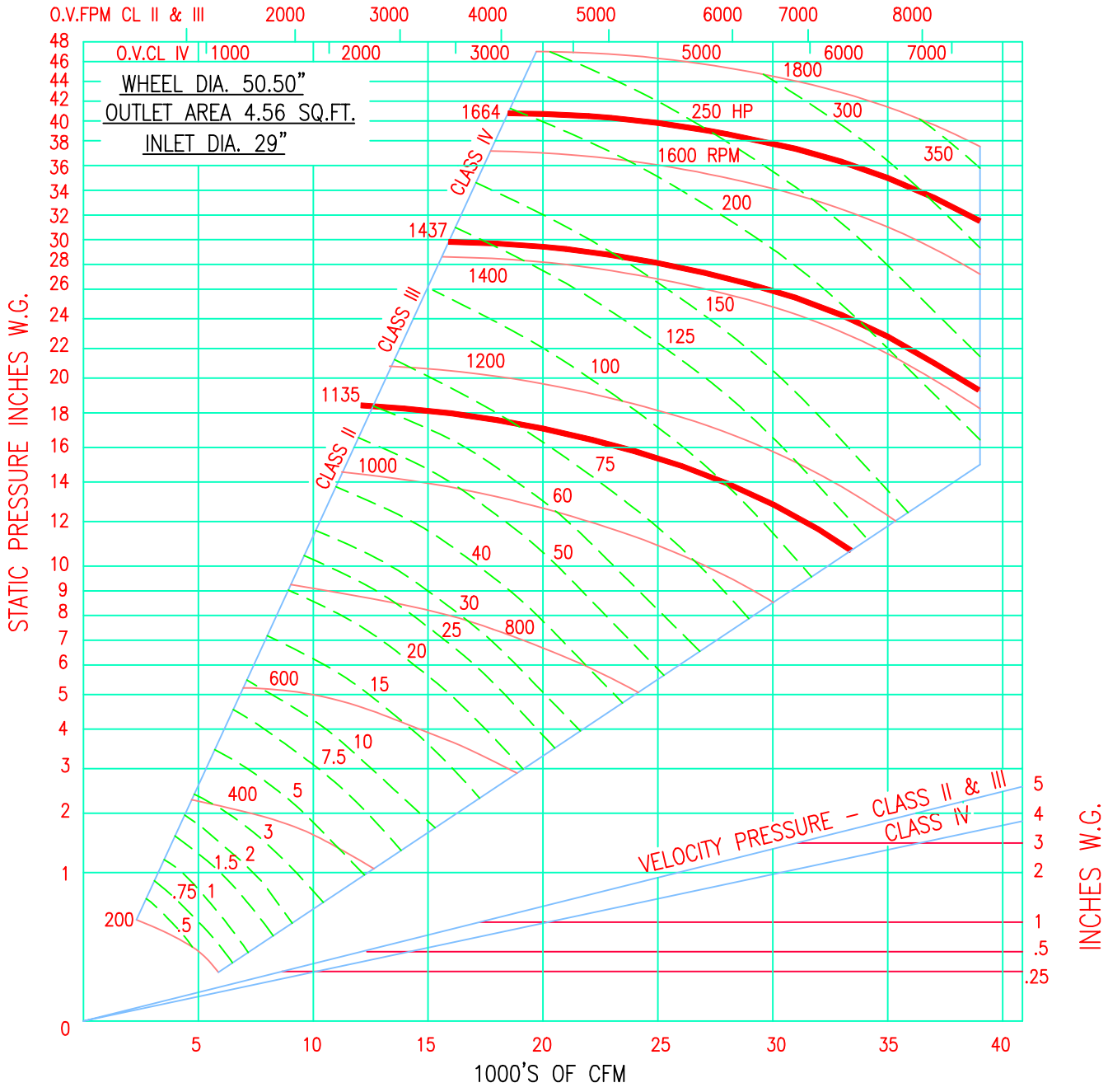
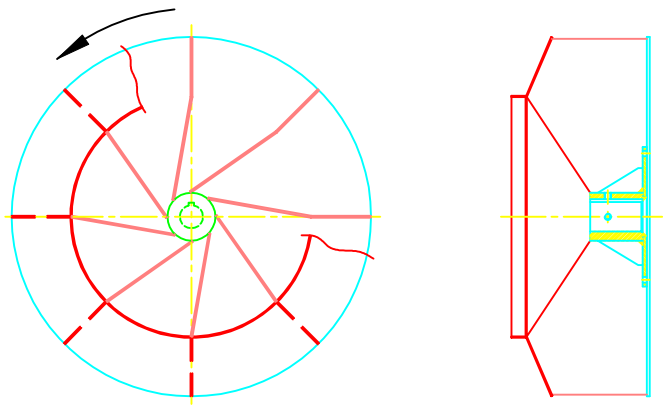
INDUSTRIAL EXHAUSTER
SIZE 29 XS RADIAL WHEEL





"CLOCK WISE" WHEEL SHOWN

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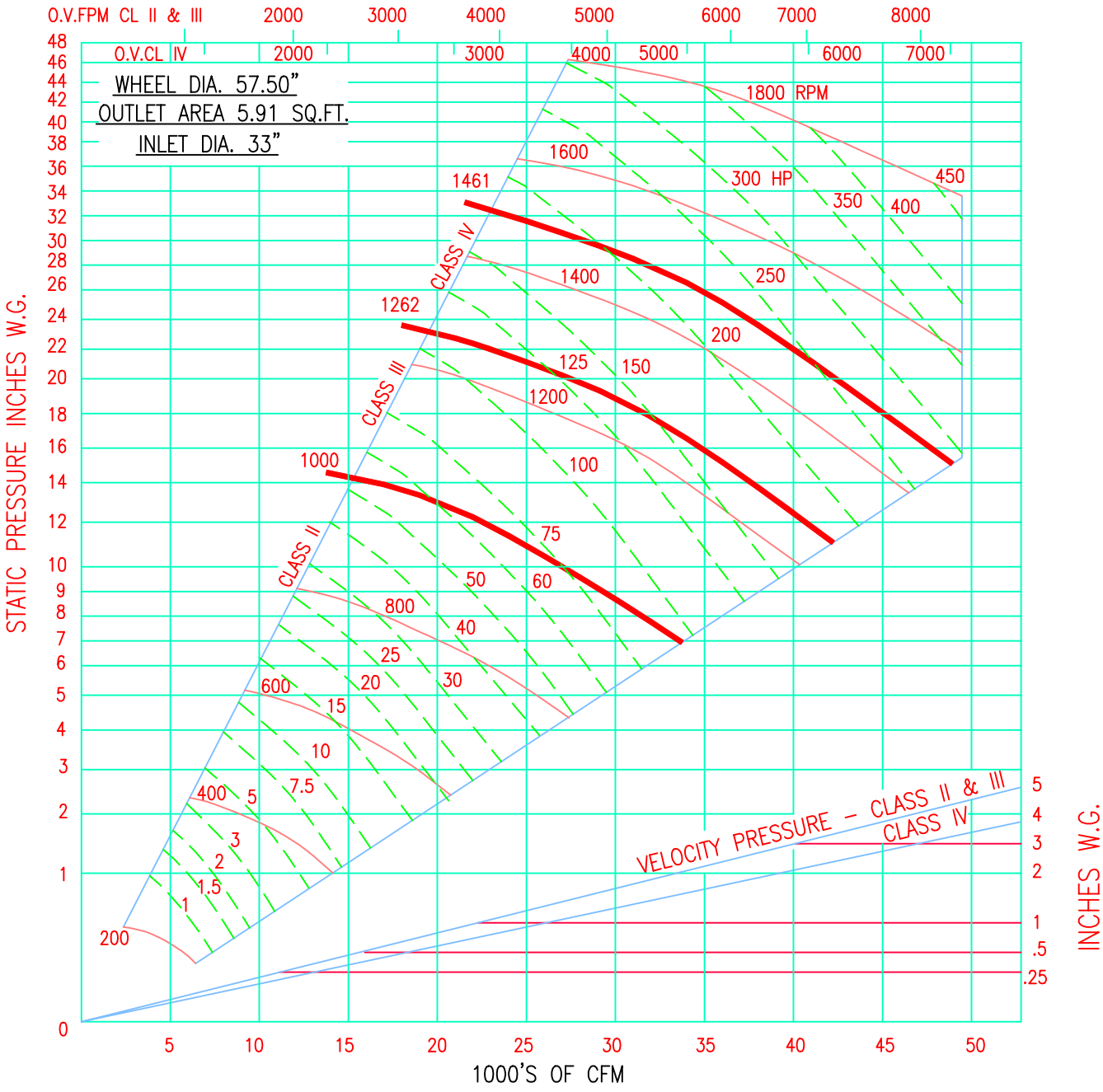
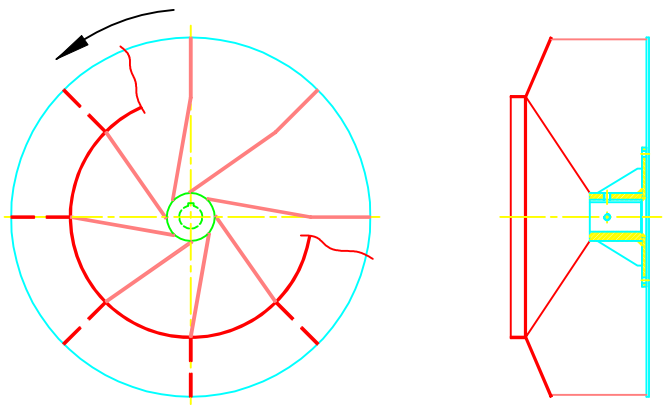
INDUSTRIAL EXHAUSTER
SIZE 33 XS RADIAL WHEEL





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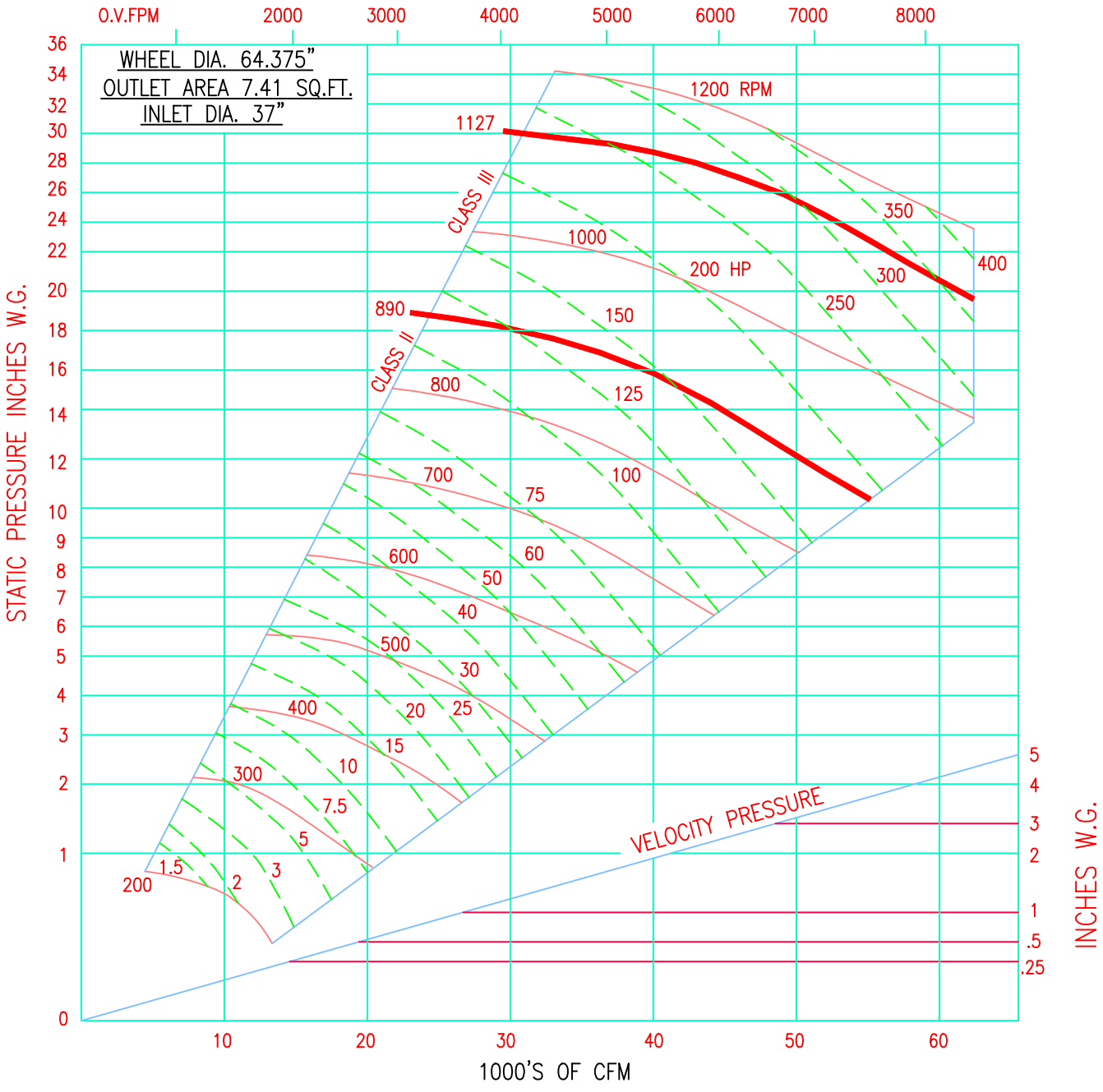
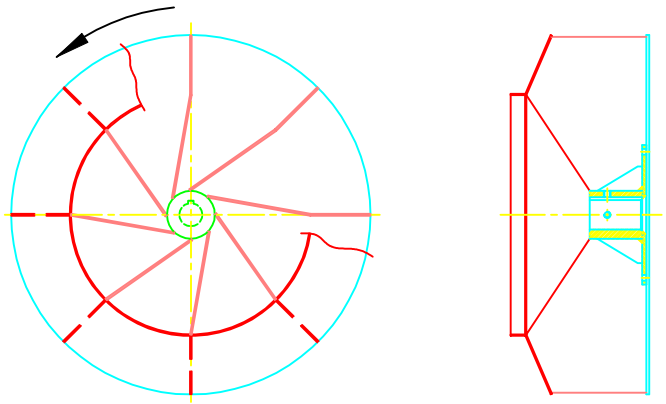
INDUSTRIAL EXHAUSTER
SIZE 37 XS RADIAL WHEEL





"CLOCK WISE" WHEEL SHOWN

JULY/2001

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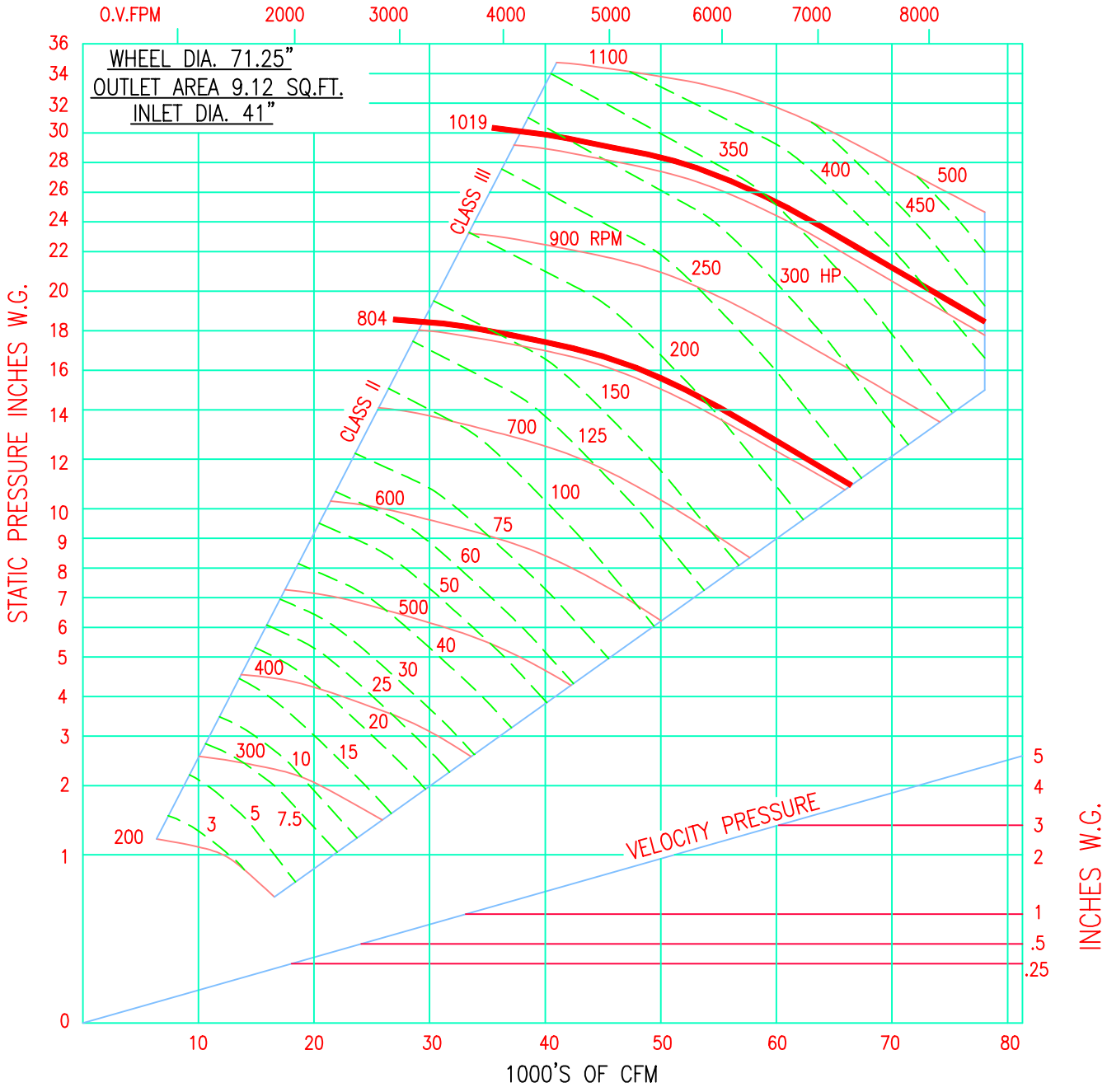
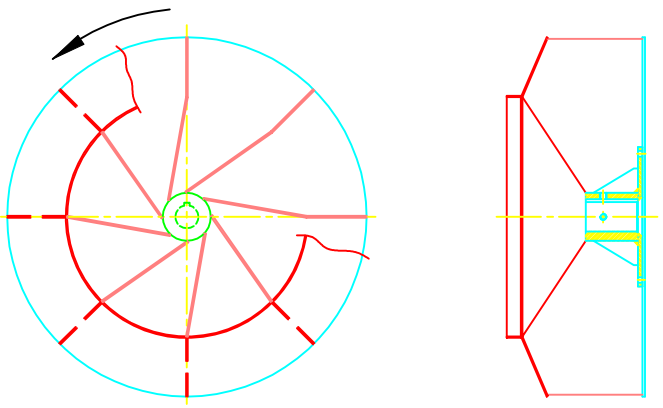
INDUSTRIAL EXHAUSTER
SIZE 41 XS RADIAL WHEEL





"CLOCK WISE" WHEEL SHOWN

JULY/2001

SHELDONS ENGINEERING INC.

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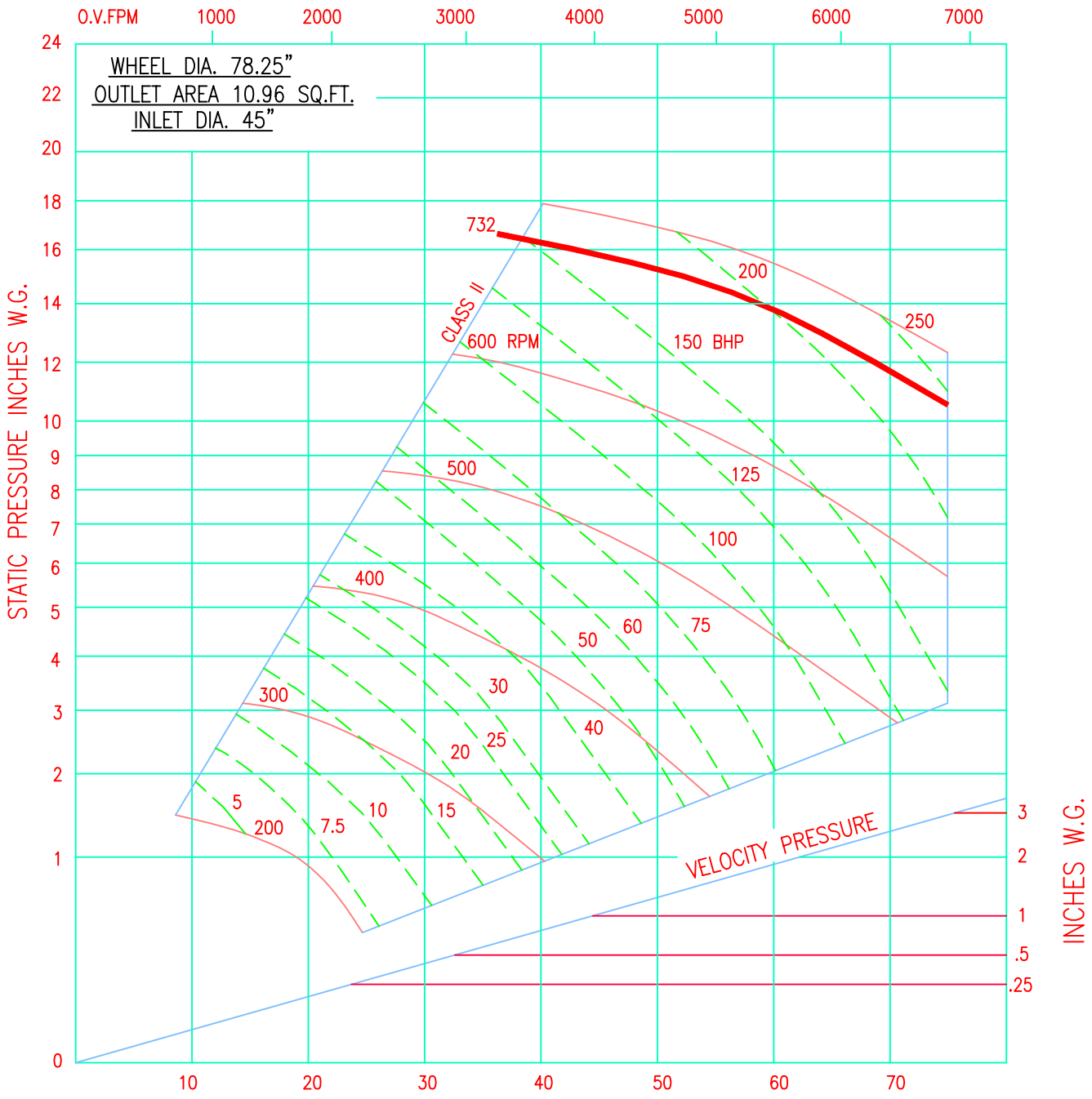
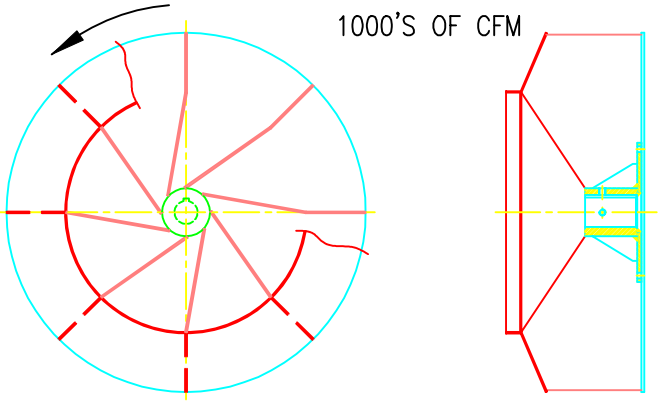
INDUSTRIAL EXHAUSTER
SIZE 45 XS RADIAL WHEEL





"CLOCK WISE" WHEEL SHOWN

JULY/2001

SHELDONS ENGINEERING INC.

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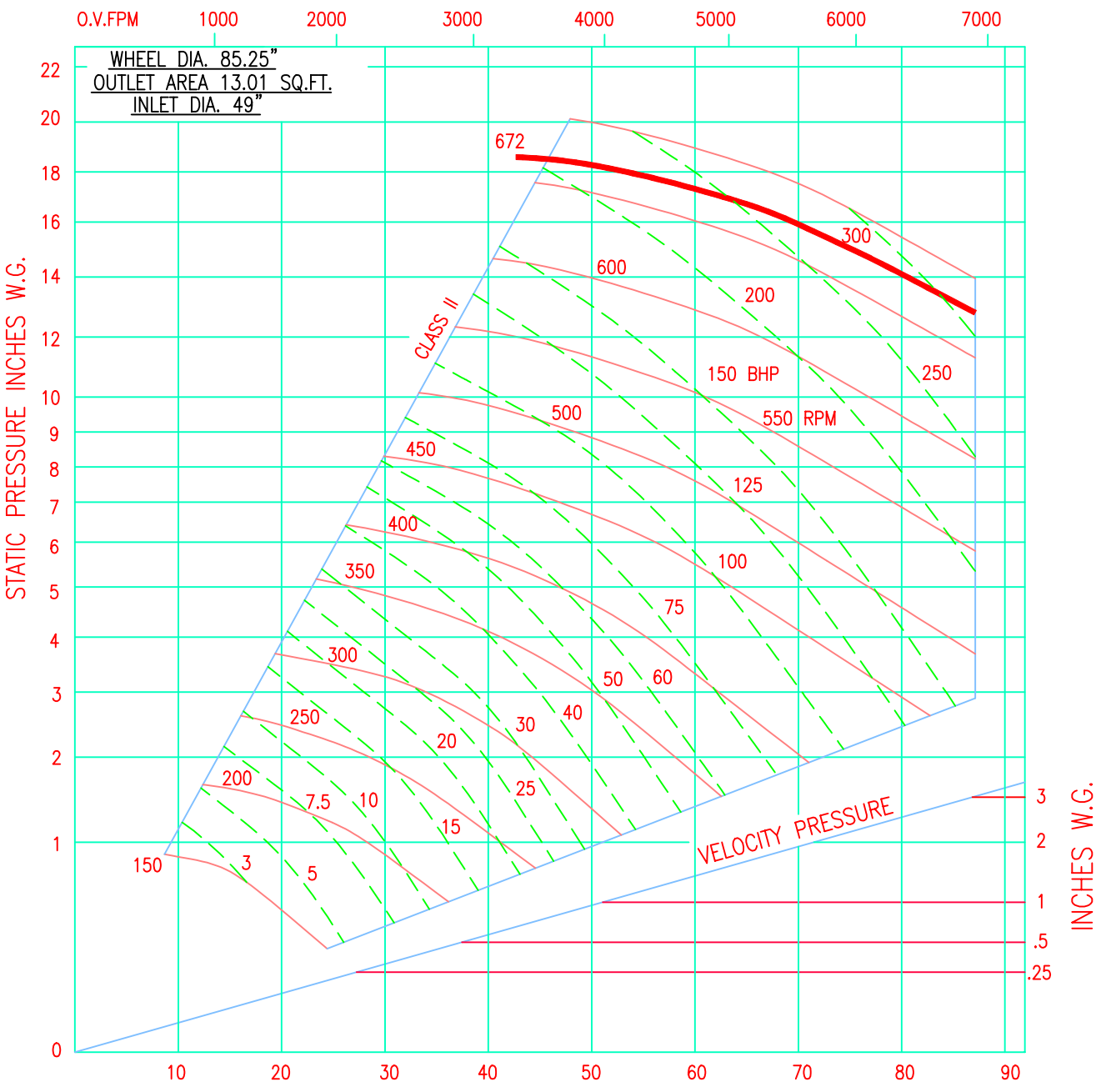
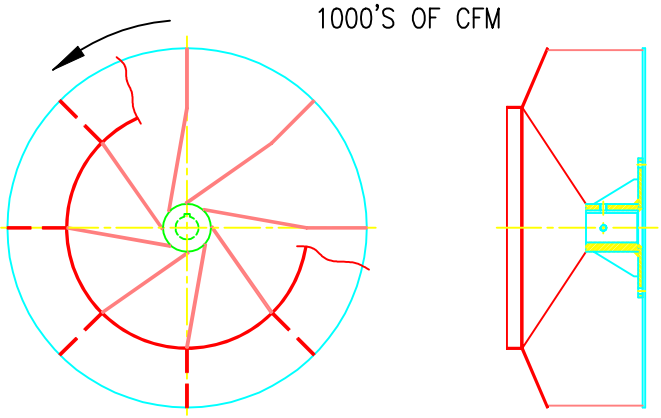
INDUSTRIAL EXHAUSTER
SIZE 49 XS RADIAL WHEEL



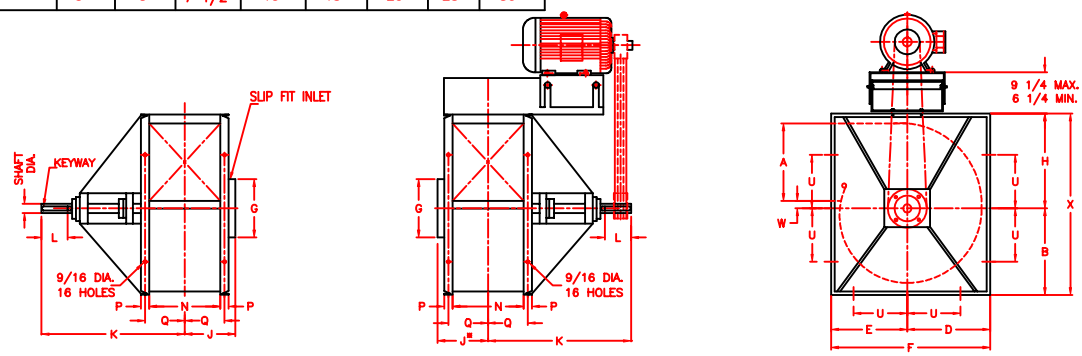


"CLOCK WISE" WHEEL SHOWN

JULY/2001

FAN SIZE	5	6	7	9	11	13	15	17
MAX.RPM–V–DRIVE	4600	4200	4690	3656	2980	2532	2181	1930
FAN SHV.MIN.DIA.	3"	3"	3"	4.5"	6.1"	7.4"	6.3"	9.4"
MAX. MOTOR HP	3	5	7 1/2	10	15	20	25	30

MOTOR FRAME	48	56	182T–184T	213T–215T	254T–256T
O (INCHES MAX)	6	6 3/4	9 3/4	11	13



ADJUSTABLE MOTOR BASE
ARRANGEMENT 9T & 9S
COUNTER CLOCKWISE

FIG. 15
CCW TH

DIMENSION - INCHES

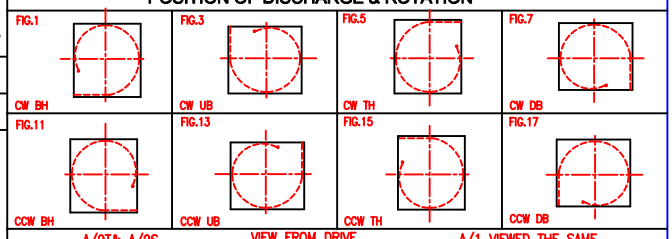
FAN SIZE	WHEEL DIA.	SHAFT DIA.	KEYWAY SIZE	A	B	D	E	F	G	H	J*	K	L	N	P	Q	U	W	X	MOTOR FRAME 9T & 9S Min.	MOTOR FRAME 9T & 9S Max.
5	8 3/4	15/16	1/4x1/8	4 15/32	7 5/16	8	6 1/8	14 1/8	5	9 1/16	2 31/32	13 3/4	2	4 3/16	1 1/2	3	3	3 1/16	16 3/8	48	184T
6	10 1/2	1 3/16	1/4x1/8	5 5/8	8 9/16	9 3/8	7 3/8	16 3/4	6	10 9/16	3 1/2	14 7/8	2 1/2	5	1 1/2	3 3/8	4 3/4	3 7/16	19 1/8	48	184T
7	12 1/4	1 3/16	1/4x1/8	6 5/8	9 7/16	10 3/16	8 9/16	18 3/4	7	12 1/16	4 1/8	17 13/16	3	5 7/8	1 1/2	3 13/16	5 3/8	3 15/16	21 1/2	48	184T
9	15 5/8	1 3/16	1/4x1/8	8 1/2	11 15/16	13	11	24	9	15 1/16	5 1/8	19 11/16	4	7 1/2	1 1/2	4 5/8	7 7/8	5 1/16	27	56	256T
11	19 1/8	1 7/16	3/8x3/16	10 7/16	14 5/8	16 1/4	13 1/2	29 3/4	11	18 1/8	8	20 7/8	4	9 1/8	1 1/2	5 7/16	10	6 3/16	32 3/4	56	256T
13	22 5/8	1 7/16	3/8x3/16	12 11/32	17 5/16	18 7/8	15 7/8	34 3/4	13	21 11/16	9 1/8	26 1/8	4 1/2	10 13/16	2	6 1/2	12 1/8	7 3/8	39	56	256T
15	26 1/8	1 15/16	1/2x1/4	14 1/4	19 13/16	21 5/8	18 3/8	40	15	24 11/16	10	27 11/16	5 1/4	12 1/2	2	7 3/8	14 5/8	8 7/16	44 1/2	143T	256T
17	29 5/8	1 15/16	1/2x1/4	16 1/8	22 5/16	24 3/8	20 3/4	45 1/8	17	27 11/16	11	28 11/16	5 1/4	14 1/8	2	8 3/16	17	9 9/16	50	145T	256T

* Add 3/8" to 'J' when Sp. Resist. Constr. (200° F & above) is required. Sizes 5–15 only

ITEM NO.	IDENTIFICATION	NO. REQD.	FAN SIZE	CLASS	ARRGT.	FIG. NO.	PERFORMANCE CFM	O.V.	SP	R.P.M.	TEMP.	BHP	DRIVE DATA MTR. SHV.	FAN SHV.	BELTS	CTRS.

ITEM NO.	MOTOR DATA HP	RPM	CURRENT	FRAME	TYPE	MTR.POS.	SPECIAL FEATURES

POSITION OF DISCHARGE & ROTATION



A/9T& A/9S ILLUSTRATED — VIEW FROM DRIVE SIDE SHOWN — A/1 VIEWED THE SAME LESS MOTOR BASE

SPECIAL FEATURES

1. CLEAN–OUT DOOR:
   A: QUICK CLAMP TYPE
   B. BOLTED TYPE
   C. ROUND PLUG TYPE.
2. FLANGED INLET
3. HOUSING DRAIN
4. OUTLET DAMPER CONTROL
5. INLET SCREEN.
6. COOLING WHEEL & GUARD
7. MOTOR & DRIVE MOUNTING
8. OSHA BELT GUARD
9. SHAFT SEAL
10. LINT FREE CONSTRUCTION
11. OSHA BEARING & SHAFT GUARD
12. EXTENDED GREASE TUBE FITTING
13. HIGH TEMPERATURE PAINT OR SPECIAL COATING
14. TYPE "C" SPARK RESISTANT CONSTRUCTION
15. FLANGED OUTLET PUNCHED
16. TYPE "T" VIBRATION BASE
    A. RUBBER IN SHEAR
    B. SPRINGS
17. SLIP FIT INLET

NOTES:

–REFER TO ORDER ACKNOWLEDGEMENT FOR SHIPPING DETAILS

CUSTOMER _____

P.O.# _____

JOB NAME _____

LOCATION _____

SERIES 6000 DESIGN 6900
ARRANGEMENT 1 & 9T/9S CLASS II

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FURNISHED FOR SALES PURPOSE–DIMENSIONS NOT CERTIFIED BY S.E.	DATE	SUBMITTED BY	SALES OFFICE
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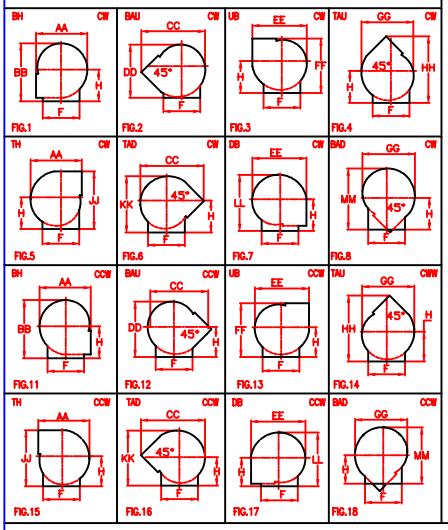
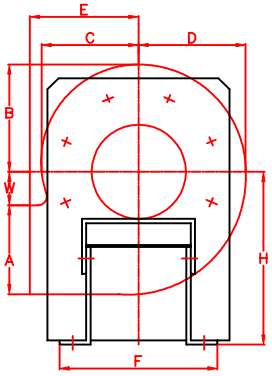
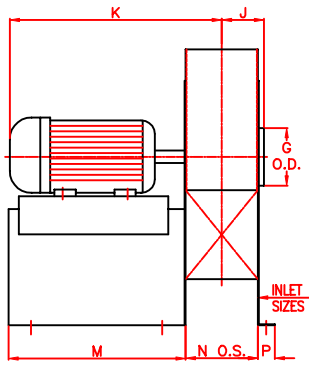
DRAWING CERTIFIED BY S.E. APPROVAL –NOT REQUIRED–RELEASED FOR PRODUCTION	DATE	ENGINEER	DWG#

POSITION OF DISCHARGE & ROTATION FROM DRIVE SIDE

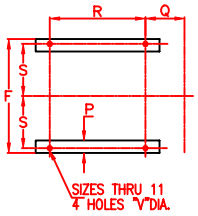




SIDE ELEVATION



FRONT ELEVATION



FUNDATION PLAN

DIMENSION - INCHES

FAN SIZE	WHEEL DIA.	SHAFT DIA.	MOTOR FRAME	A	B	C	D	E	F	G	H	J	* K	M	N	P	* Q	R	S	W	V
5	8 3/4	15/16	56	4 11/16	6 15/16	6 5/16	7 9/16	7 3/8	11 1/2	5	11 1/2	2 15/16	10 17/32	9 7/8	4 3/8	1 1/2	4 5/16	5 3/4	5 1/8	3	3/8
6	10 1/2	1 3/16	143-145 182-184	5 7/8	8 3/16	7 7/16	8 15/16	8 5/8	11 1/2	6	12 5/16	3 15/32	15 17/32	9 7/8	5 3/16	1 1/2	4 23/32	5 3/4	5 1/8	3 5/16	3/8
7	12 1/4	1 3/16	143-145 182-184	6 13/16	9 3/8	8 1/2	10 1/4	9 3/4	11 1/2	7	14 1/8	4 5/32	15 15/16	9 7/8	6 1/32	1 1/2	5 5/32	5 3/4	5 1/8	3 13/16	3/8
9	15 5/8	1 3/16	143 thru 256	8 11/16	11 7/8	10 3/4	13	12 3/16	15 1/2	9	18 1/8	5 3/32	24 27/32	16 3/4	7 11/16	2	7	10 5/8	6 7/8	4 15/16	1/2
11	19 1/8	1 7/16	182-184	10 5/8	14 7/16	13 1/16	15 13/16	14 1/2	15 1/2	11	19 3/8	8	17 19/32	16 3/4	9 5/16	2	7 13/16	10 5/8	6 7/8	6 1/16	1/2
13	22 5/8	1 7/16	213-215 254-256	12 5/8	17 1/16	15 7/16	18 11/16	16 15/16	15 1/2	13	25 5/8	9 7/32	26 19/32	18 1/16	11 1/16	2	6 21/32	11 7/8	6 7/8	7 3/16	1/2
15	26 1/8	1 15/16	213-215 254-256	14 1/2	19 9/16	17 11/16	21 7/16	19 3/8	15 1/2	15	26 5/16	10 1/8	27 7/16	18 1/16	12 3/4	2	7 1/2	11 7/8	6 7/8	8 5/16	1/2
17	29 5/8	1 15/16	254-256	16 7/16	22 1/16	19 15/16	24 3/16	21 3/4	15 1/2	17	28 3/8	11 1/16	28 1/4	18 1/16	14 3/8	2	8 5/16	11 7/8	6 7/8	9 3/8	1/2

FAN SIZE	AA	BB	CC	DD	EE	FF	GG	HH	JJ	KK	LL	MM
5	14 15/16	18 7/16	17 29/32	18 1/8	15 1/8	18 7/8	14 1/2	22 5/32	19 11/16	19 3/8	19 1/16	18 3/4
6	17 9/16	20 1/2	21 5/32	20 1/8	17 7/8	20 15/16	17 1/8	24 29/32	22	21 5/8	21 1/4	20 7/8
7	20	23 1/2	24 7/32	23 1/16	20 1/2	23 7/8	19 5/8	28 17/32	25 1/4	24 13/16	24 3/8	23 15/16
9	25 3/16	30	30 11/16	29 7/16	26	30 5/16	24 7/8	36 3/8	32 1/4	31 11/16	31 1/8	30 9/16
11	30 5/16	33 13/16	37 3/16	33 1/8	31 5/8	33 7/8	30 1/4	41 7/16	36 9/16	35 7/8	35 3/16	34 1/2
13	35 5/8	42 11/16	43 7/8	41 7/8	37 3/8	42 9/16	35 3/8	51 5/8	45 15/16	45 1/8	44 5/16	43 1/2
15	40 13/16	45 7/8	50 11/32	44 15/16	42 7/8	45 11/16	41	56 5/32	49 5/8	48 11/16	47 3/4	46 13/16
17	45 15/16	50 7/16	56 3/4	49 3/8	48 3/8	50 1/8	46 1/4	62	54 11/16	53 5/8	52 9/16	51 1/2

SPECIAL FEATURES

A = PUNCHED FLANGED INLET # 69-0-3
B = PUNCHED FLANGED OUTLET # 69-0-3
C = CLEAN-OUT DOOR-QUICK CLAMP # 69-0-3
D = DRAIN OPENING # 69-0-3
E = SHAFT SEAL
F = TYPE "C" SPARK RESISTANT CONSTRUCTION
G = INLET SCREEN
H = LINT FREE CONSTRUCTION
J = OUTLET DAMPER # 69-0-6

ITEM NO.	IDENTIFICATION	NO. REQD.	FAN SIZE	FIG. NO.	PERFORMANCE							MOTOR DATA					SPECIAL FEATURES
					CFM	O.V.	SP	R.P.M.	TEMP.	BHP	ELEV.	HP	RPM	CURRENT	FRAME	TYPE	

NOTES:

A. * K DIMENSION IS APPROXIMATE VALUE BASED UPON MAXIMUM MOTOR FRAME AND TEFC MOTORS.
B. REFER TO ORDER ACKNOWLEDGEMENT FOR SHIPPING DETAILS

* "Q" DIM. WILL INCREASE BY 1/8" IF TYPE "C" SPARK RESISTANT IS FURNISHED.

CUSTOMER _____

P.O.# _____

JOB NAME _____

LOCATION _____

SERIES 6000 DESIGN 6900
ARRANGEMENT 4 SISW

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DRAWING CERTIFIED BY S.E. APPROVAL -NOT REQUIRED-RELEASED FOR PRODUCTION	DATE	ENGINEER	DWG#