

# **SHELDONS ENGINEERING Inc.**

Sheldons Engineering Product Index

www.sheldonsengineering.com

## MATERIAL HANDLING-RADIAL BLADE CENTRIFUGAL FAN -9000 XS

#### GENERAL

The centrifugal fan shall be designed and manufactured by Sheldons Engineering to ensure smooth operation. Fan wheel shall be radial, with blades extending from to hub to the tip of the wheel model "XS" 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. Fan size is defined as the OD in inches of the fan inlet.

#### 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<sup>3</sup> 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 rise continuously over the entire range of flows for a given speed and 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. gauge per chart below, continuously welded construction with flanged and punched outlet. Housings with lock seams or spot welded construction are not acceptable.

Fan Size	Class I (12 M)	Class II & III (15 &19M)	Class IV (22M)
7-11	14 gauge (0.0747" or 1.89 mm)	12 gauge	10 gauge
13-26	12 gauge (0.1046" or 2.66 mm)	10 gauge	7 gauge
29-37	10 gauge (0.1345" or 3.43 mm)	7 gauge	1⁄4"
41-49	7 gauge (0.1875" or 4.76 mm)	1/4"	1/4"
54-60		3/8"	3/8"

#### BEARINGS (belt driven fans)

Bearings are to be heavy duty, grease lubricated, precision anti-friction, self-aligning pillow block design. Bearings shall be designed for a minimum  $L_{10}$  life per the chart below when rated at the fan's maximum cataloged operating speed.

Class	I II	III	IV
MIN. L <sub>10</sub> Life	30,000 40,000	100,000	400,000



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#### 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.

#### 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 are to be coated with a zinc rich oxide primer. Surfaces of bolted components not accessible after assembly shall be coated and allowed to dry prior to final assembly.

#### **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.

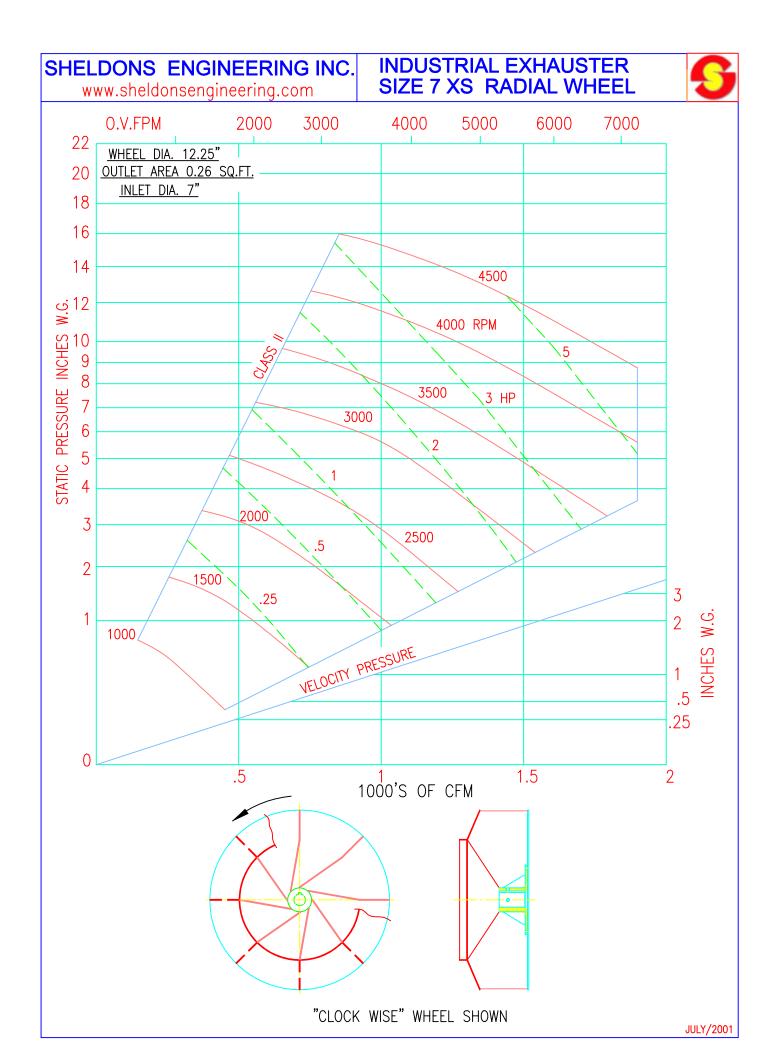
#### ACCESSORIES

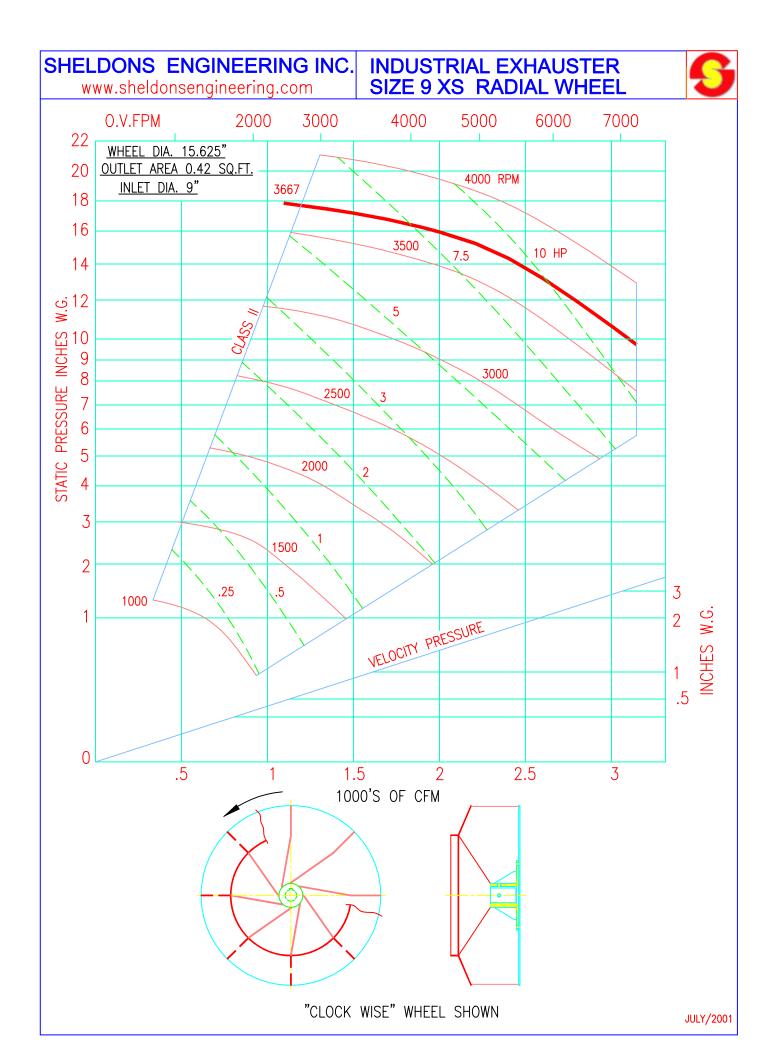
Accessories shall be provided as called for in the plans and specifications. Standard accessories include:

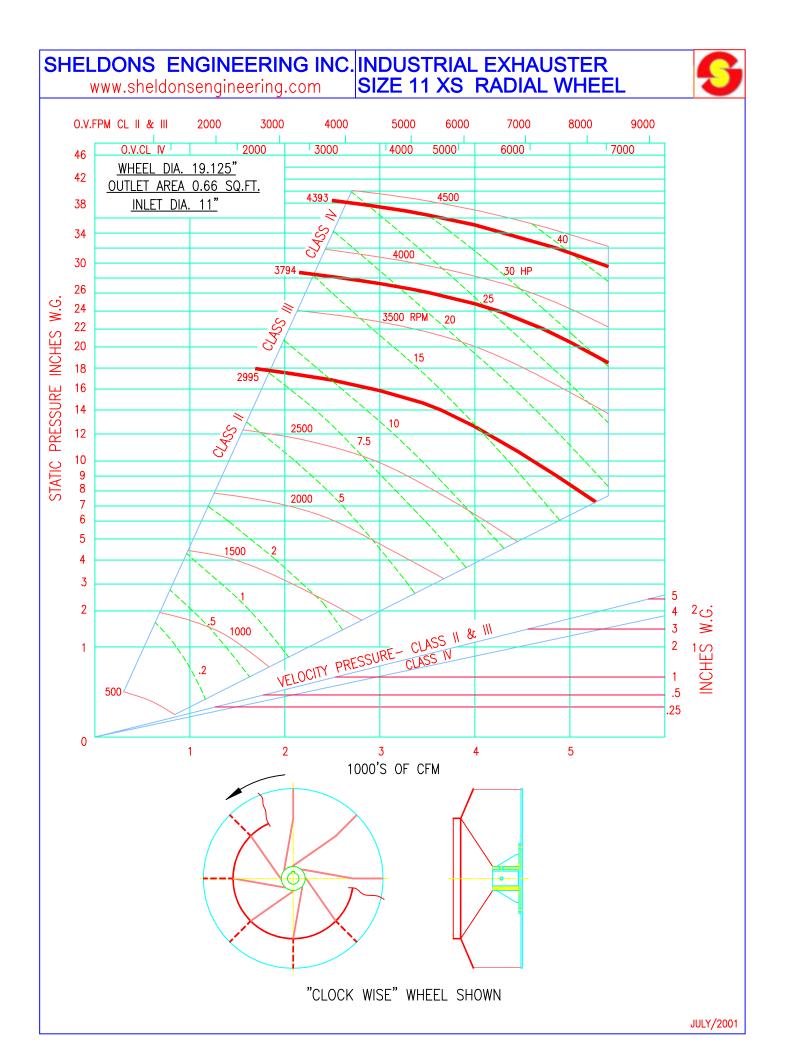
Motor to be NEMA Design B 3/60/460-575V-1800 rpm, high efficiency TEFC 1.15 SF V-Belt Drives - Variable Speed/Constant Speed with min 1.5 SF Belt Guard or weather cover required Extended lubrication lines (nylon, copper or stainless steel) with fittings terminating in an accessible area.

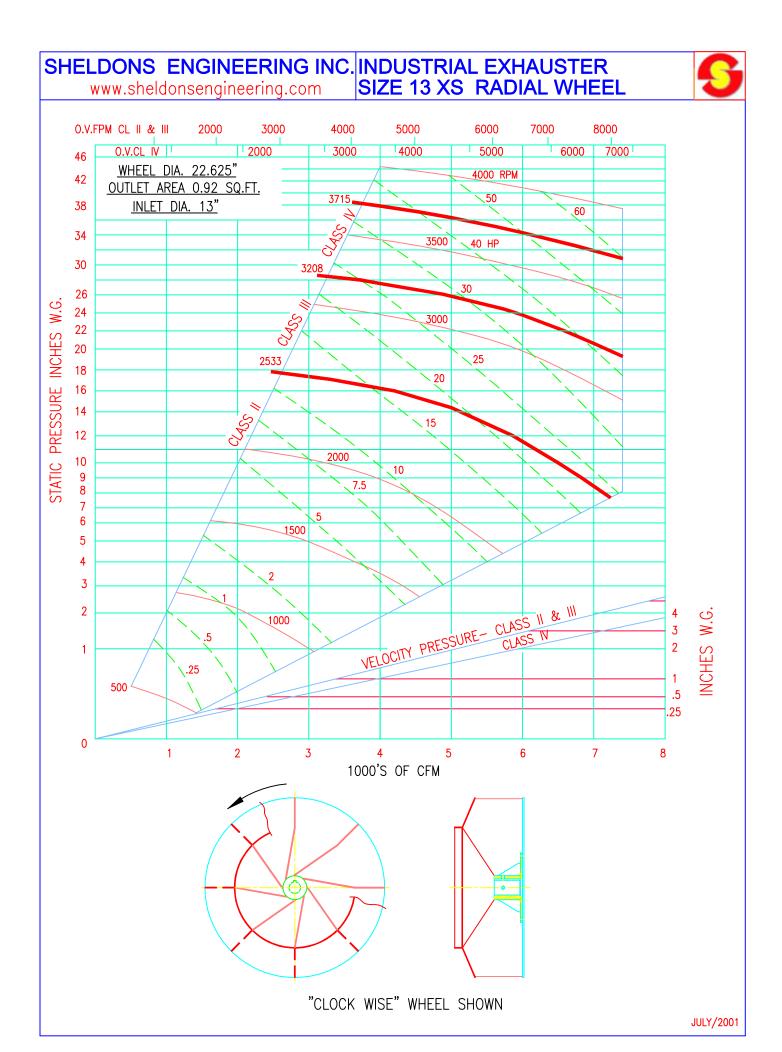
Additional Features that may be required:

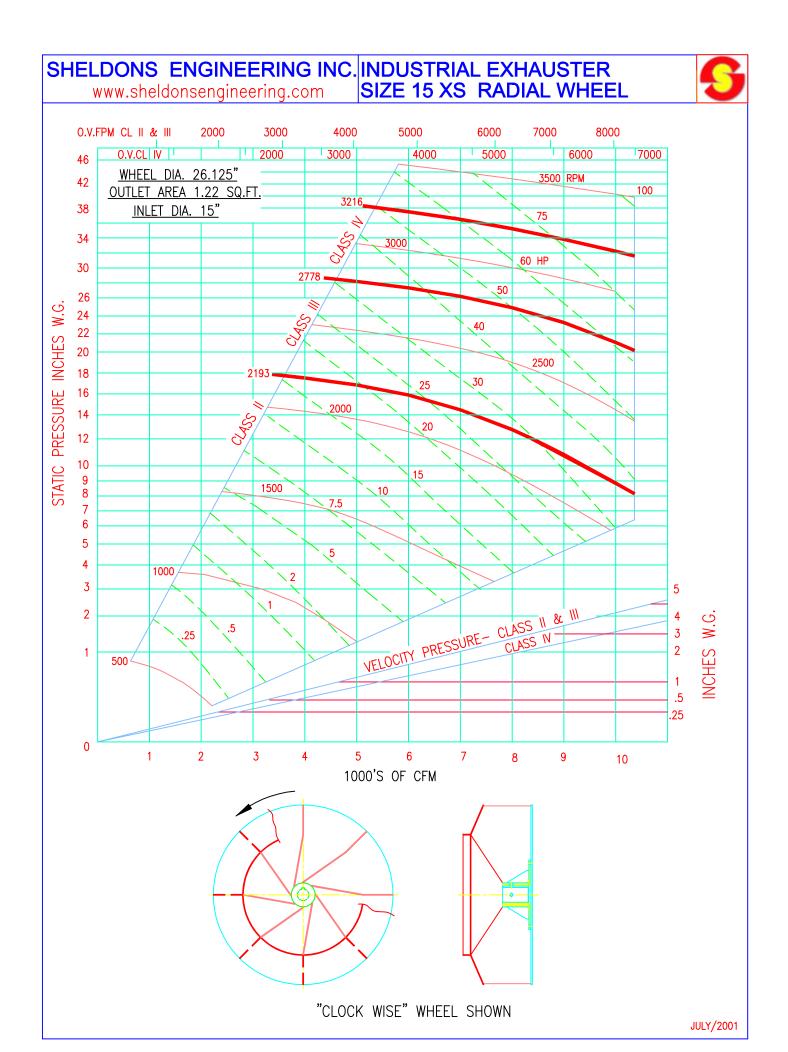
Access Door – bolted/quick opening or plug type with raised door Housing Drain – pipe ½ coupling or flanged connection Shaft Seal – non-asbestos fibre or spring loaded carbon ring style Bolt-on variable inlet vanes Spark Resistant Construction – AMCA "A" All parts in contact with the air stream of Aluminum construction AMCA "B" Aluminum wheel with Aluminum rubbing ring around shaft entry point AMCA "C" Aluminum inlet cone and Aluminum rubbing ring Horizontally Split Fan Housing

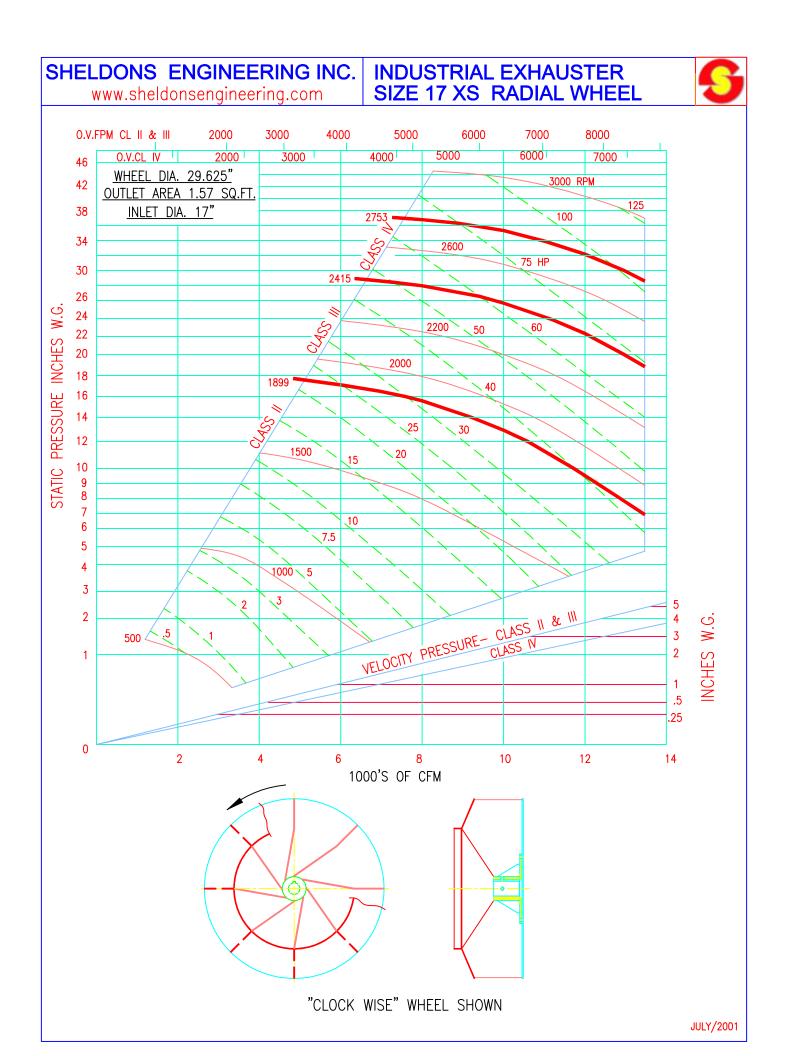


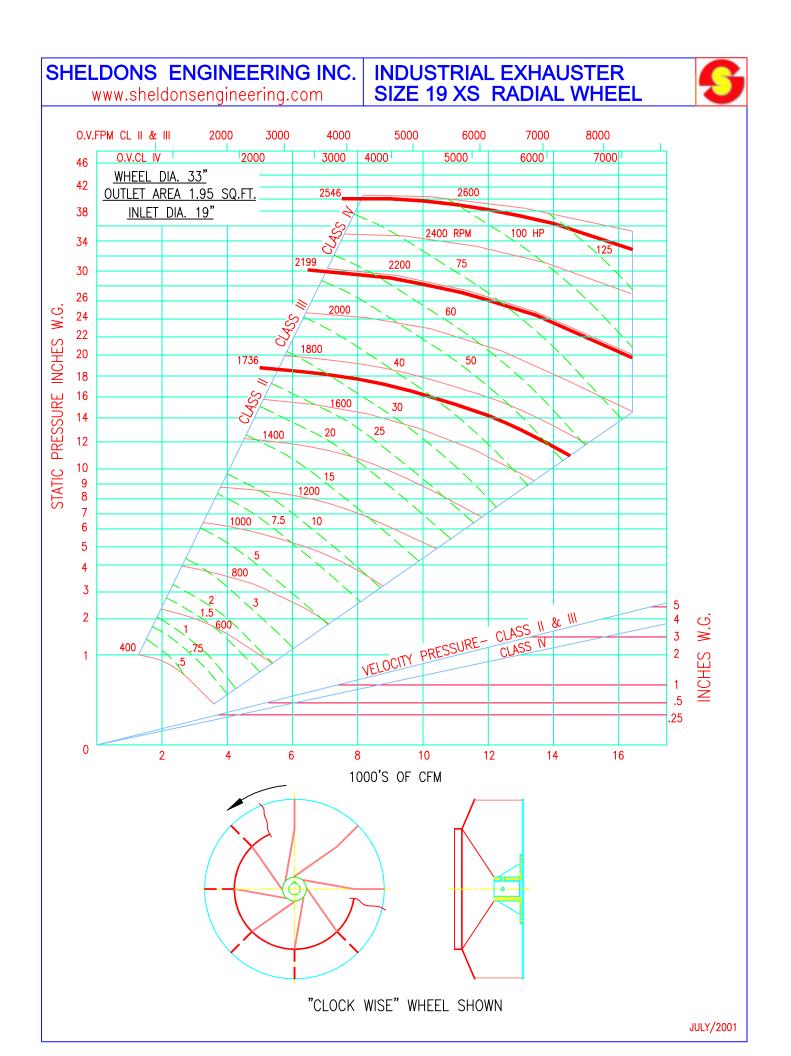


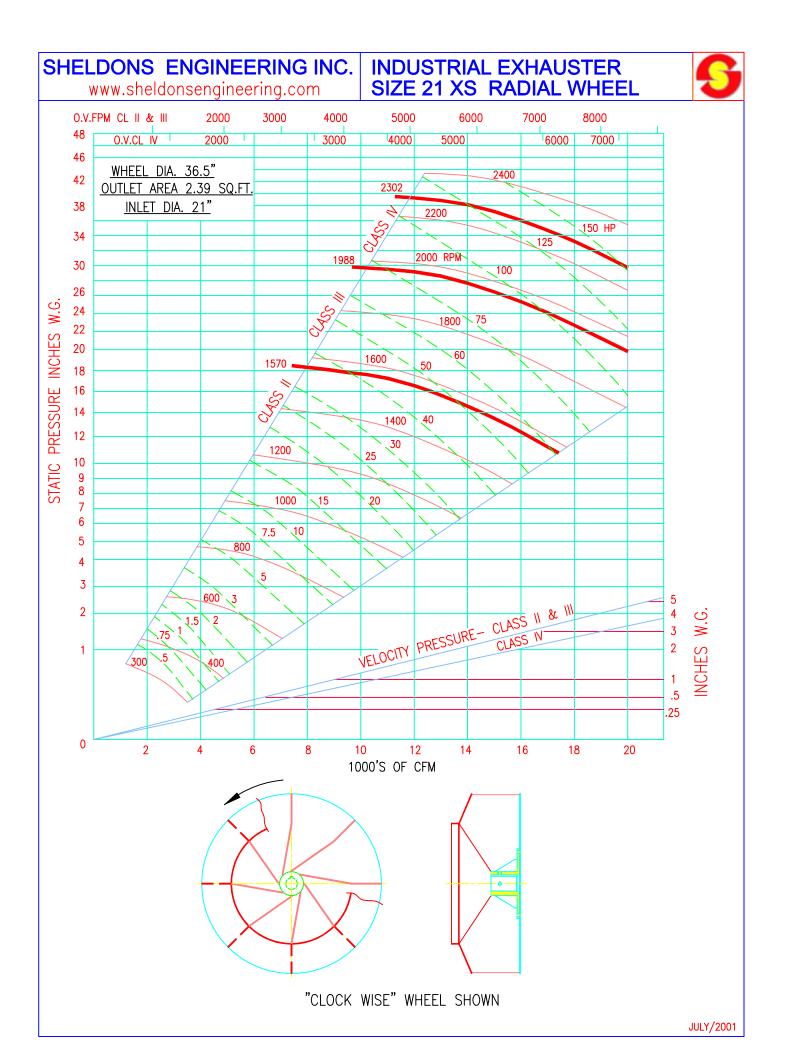


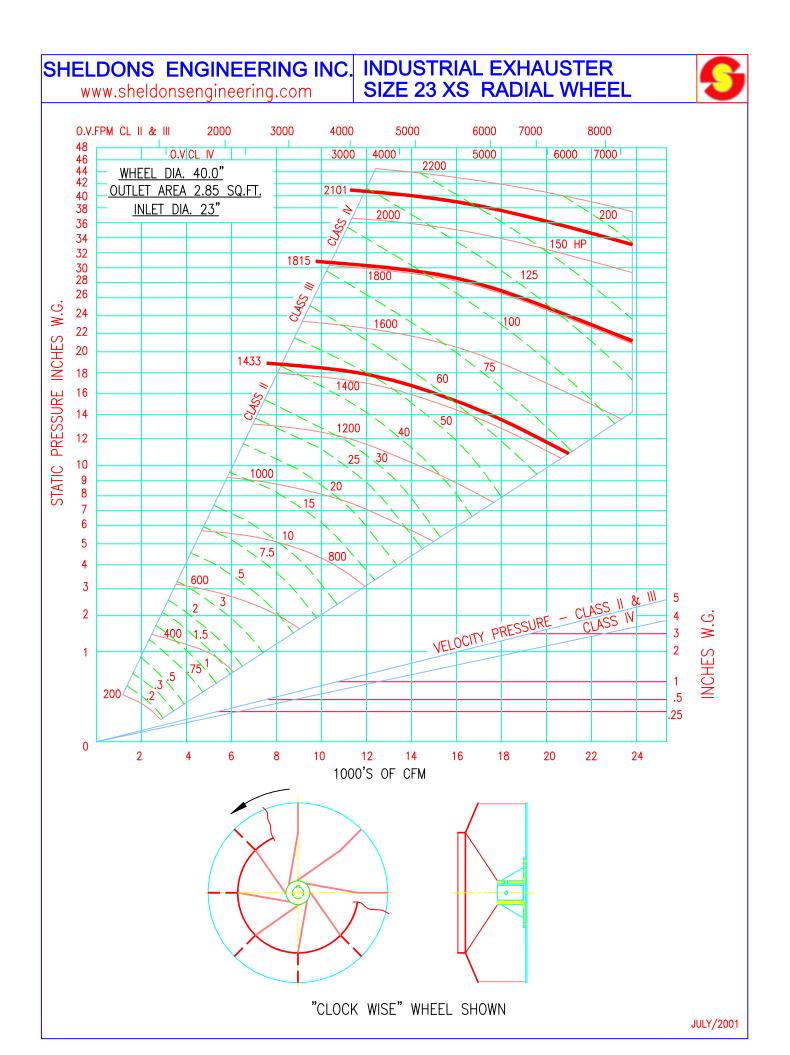










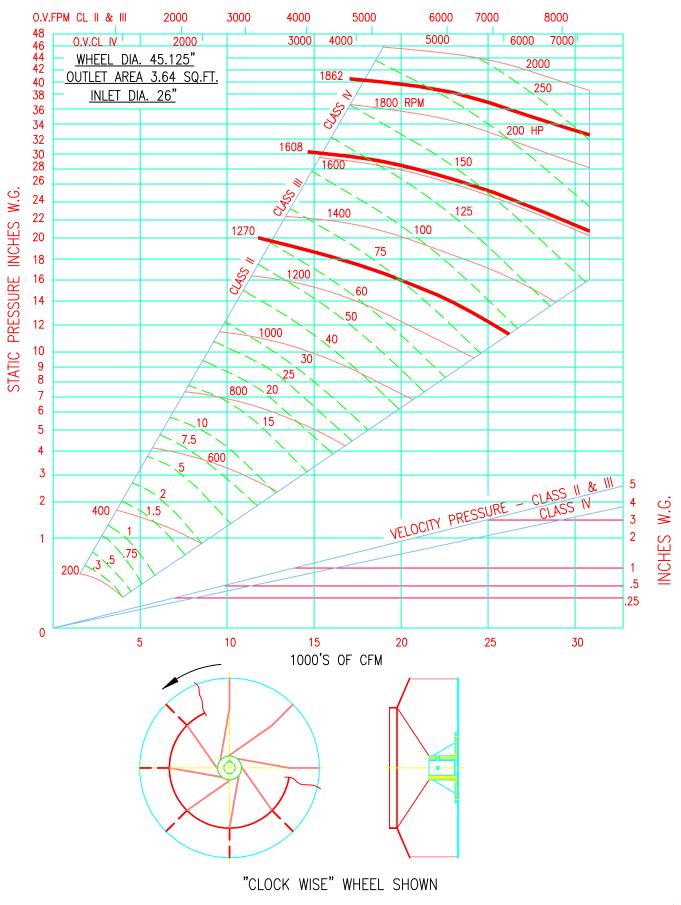




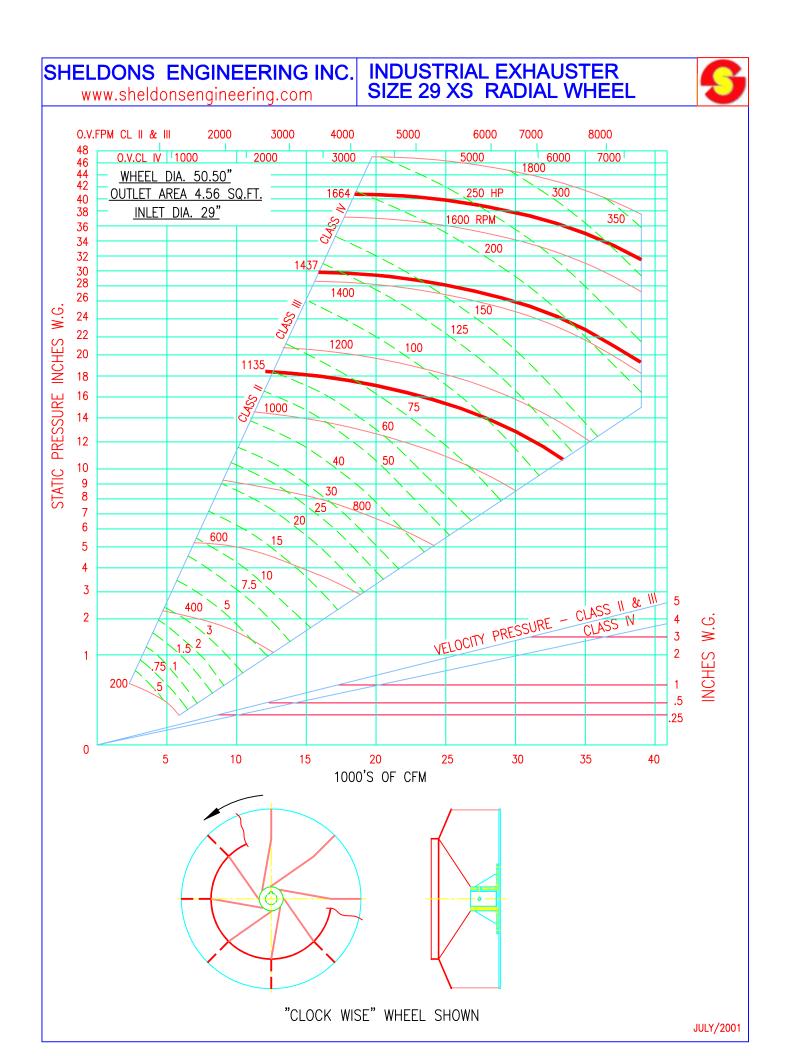
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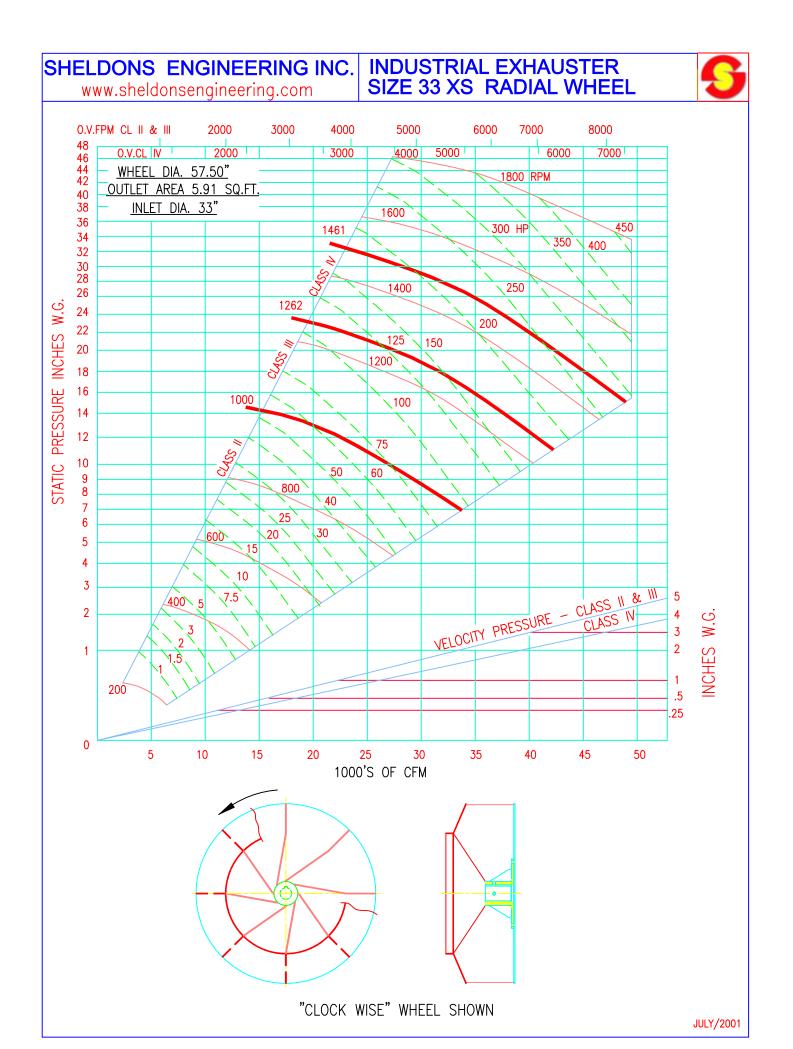
## C. INDUSTRIAL EXHAUSTER SIZE 26 XS RADIAL WHEEL





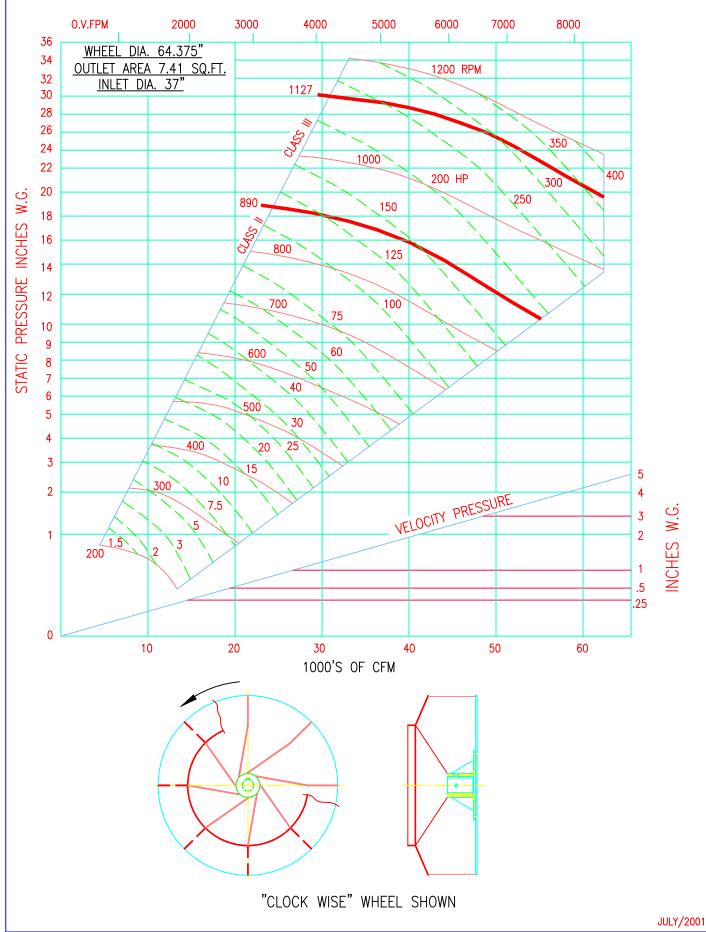
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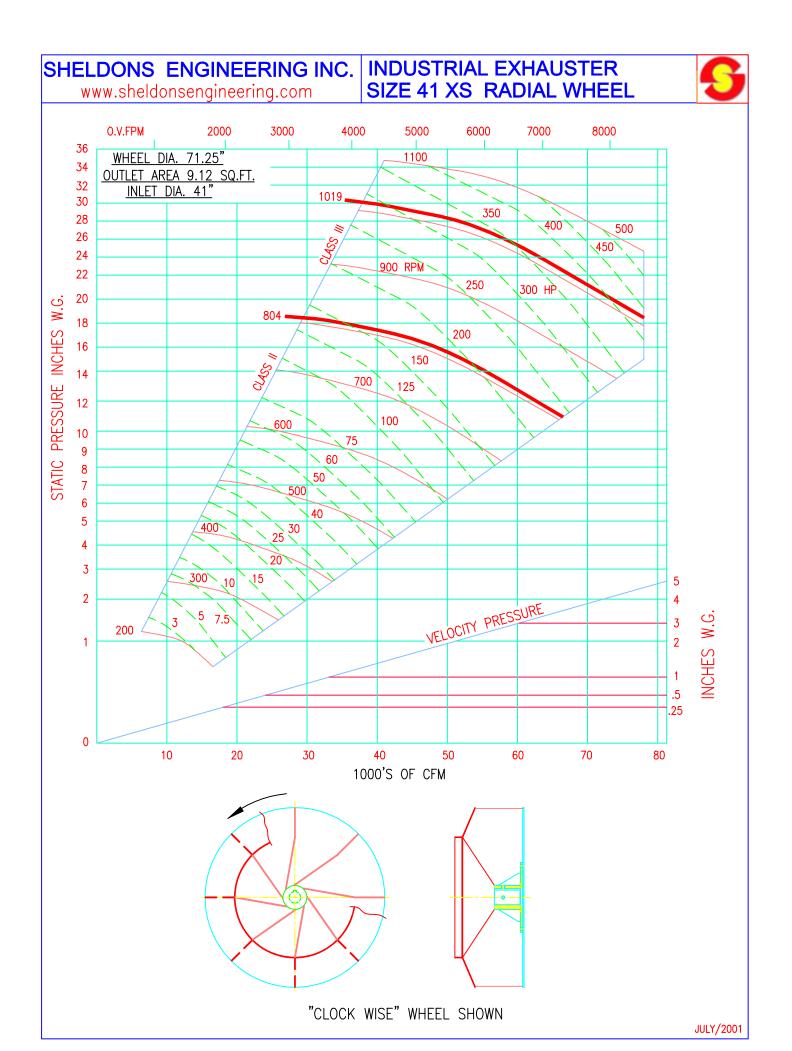


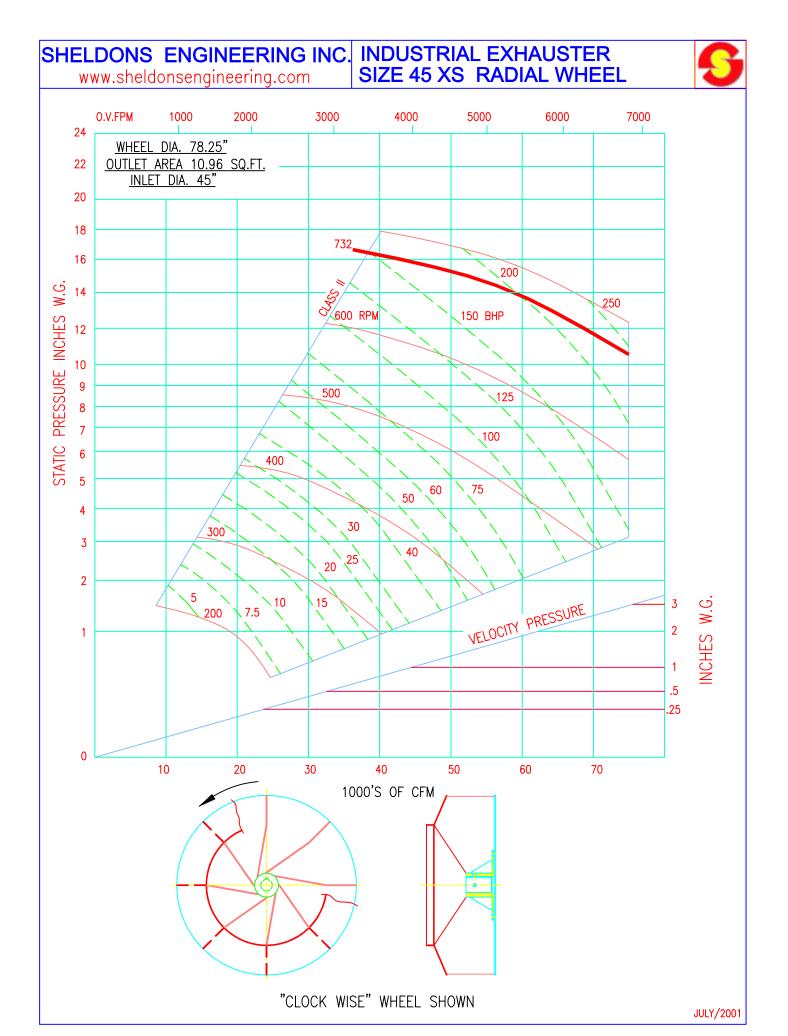


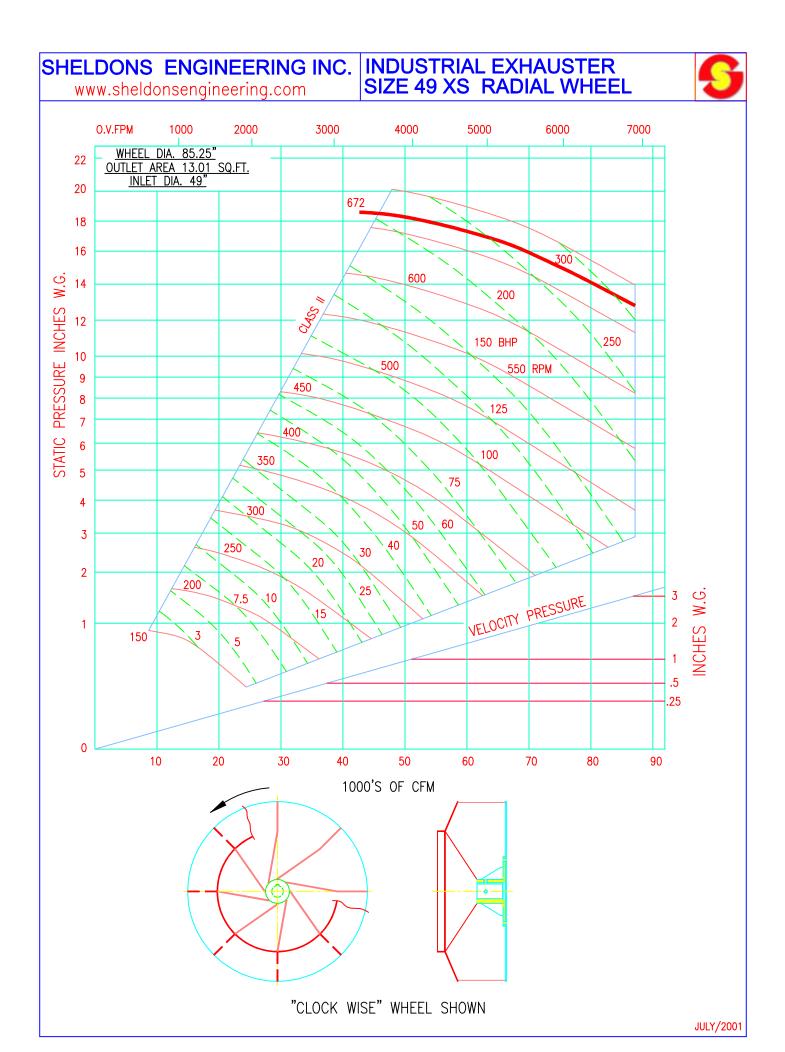
# SHELDONS ENGINEERING INC.INDUSTRIAL EXHAUSTERwww.sheldonsengineering.comSIZE 37 XSRADIAL WHEEL

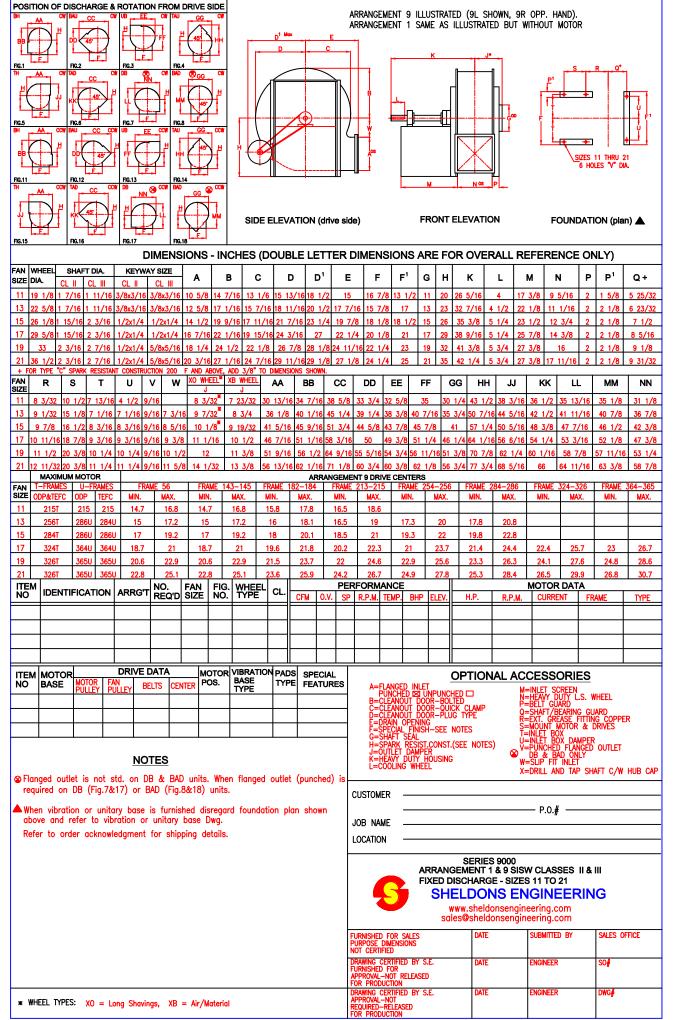


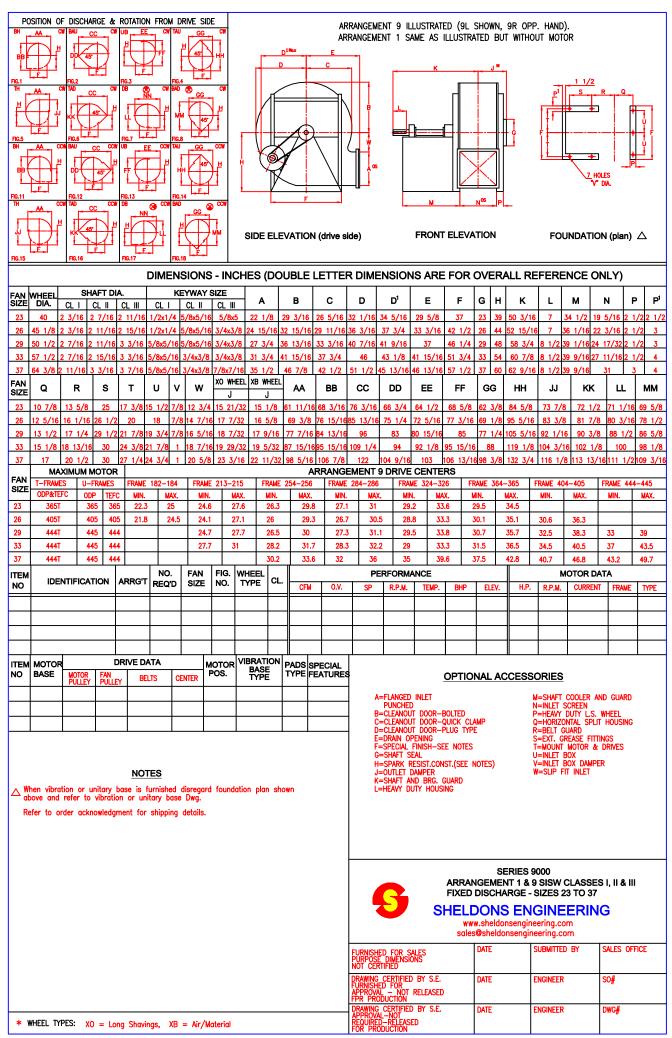




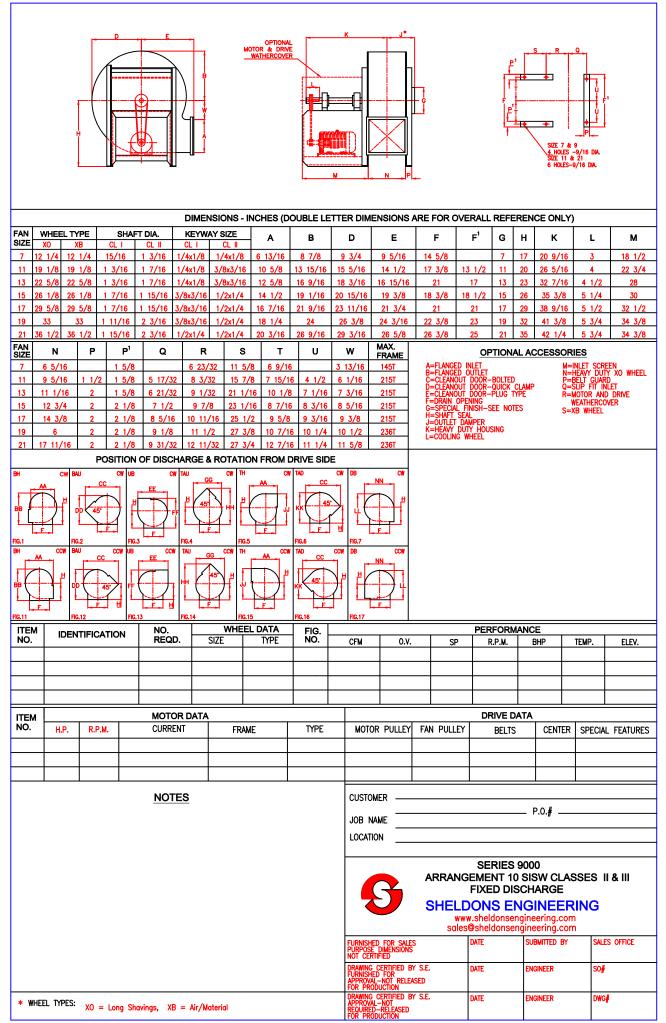


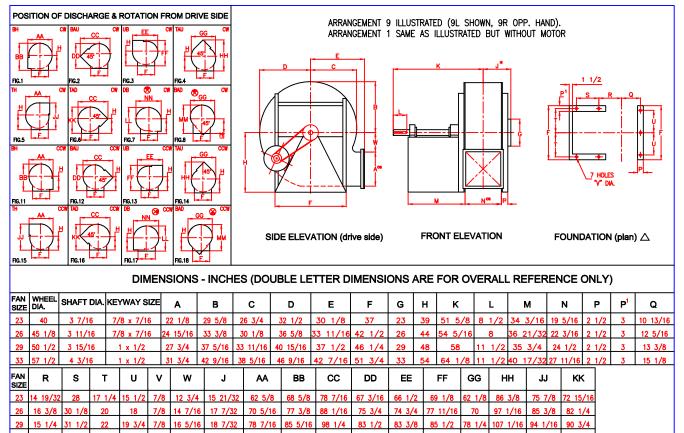






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	MAXIMU	м мо	TOR						AR	RANGE	MEN	IT 9 C	DRIVE	CEN	ITERS							
FAN	T-FRAMES	U-FF	RAMES	FRAME	FRAME 182-184		FRAME 213-21		FRAME 2	254-256	F	FRAME 284-286		5	FRAME 324-326		FRAME 364-365		FRAME 404-405		FRAME 444-445	
SIZE	ODP&TEFC	ODP	TEFC	MIN.	MAX. MIN. MAX.		MIN.	MIN. MAX.		MIN. MAX.			MIN. MAX.		MIN. MAX.		MIN. MAX.		MIN.	MAX.		
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29	444T	445	444			25.	3	27.4	27.0	29.2		28	30.5	5	30.1	33.2	31.5	35.2	33.1	37.6	33.6	38.5
33	444T	445	444			30.	.1	32.3	30.5	32.6		30.7	33.2	2	31.3	34.4	33.8	37.6	36.9	41.6	39.4	44.4
ITI	ITEM IDENTIFICATION				NO. FAN FIG. W				L CL.		PERFORMANCE					N	MOTOR DATA					
NC		FICA		ARRGI	REQD.	SIZE	NO.	TYPE		CFM	0.V.	SP	R.P.M.	R.P.M. TEMP.		ELEV.	H.P.	R.P.M.	CURRENT		FRAME TYPE	
-															-							

ITEM	MOTOR		DRIVE	DATA		MOTOR		PADS	SPECIAL
NO.	BASE	MOTOR	FAN PULLEY	FAN BULLEY BELTS		POS.	BASE TYPE	TYPE	FEATURES

#### NOTES

When vibration or unitary base is furnished disregard foundation plan shown above and refer to vibration or unitary base  ${\rm Dwg}.$ 

Refer to order acknowledgment for shipping details.

#### **OPTIONAL ACCESSORIES**

A=FLANGED INLET PUNCHED B=CLEANOUT DOOR-BOLTED 9 O'CLOCK C=CLEANOUT DOOR-OLICK CLAMP D=CLEANOUT DOOR-PLUG TYPE E=DRAIN OPENING F=SPECIAL FINISH-SEE NOTES G=SHAFT SEAL H=SPARK RESIST.CONST.(SEE NOTES) J=OUTLET DAMPER K=SHAFT AND BRG. GUARD L=HEAVY DUTY HOUSING M=SHAFT COOLER AND GUARD N=INLET SCREEN P=HEAVY DUTY L.S. WHEEL Q=HORIZONTAL SPLIT HOUSING R=BELT GUARD S=EXT. GREASE FITTINGS T=MOUNT MOTOR & DRIVES U=INLET BOX V=INLET BOX V=INLET BOX V=FLANGED OUTLET X=SPRAY NOZZLE 2"NPT @11 0'CLOCK

CUSTOMER

LOCATION

P.0.# -

JOB NAME \_\_\_\_





#### ARRANGEMENT 1 & 9 SISW CLASS IV FIXED DISCHARGE - SIZES 23 TO 33 SHELDONS ENGINEERING

www.sheldonsengineering.com sales@sheldonsengineering.com

 
 FURNISHED FOR SALES PURPOSES – DIMENSIONS NOT CERTIFIED FOR PROVIDE CERTIFIED BY S.E.
 DATE
 SUBMITTED BY
 SALES OFFICE

 PURPOSE
 DATE
 ENGINEER
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 PRAVING CERTIFIED BY S.E.
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Image: the state of	POS		DISCHA	RGE &									ARRANGEMENT 9 ILLUSTRATED (9L SHOWN, 9R OPP. HAND). ARRANGEMENT 1 SAME AS ILLUSTRATED BUT WITHOUT MOTOR										
Image: Description of the set o				Ð		ᢪᢩᡰ			Г	D <sup>11</sup>	Aax	E											
Image: Section of the sectio				ł				CCW					B	4					-G 00			R Q <sup>+</sup>	
Image: Description         Size ELEVATION (drive aids)         FROM TELEVATION         POINDATION (plan)           Image: Description         DIMENSIONS - INCHES (DOUBLE LETTER DIMENSIONS ARE FOR OVERALL REFERENCE ONLY)           Image: Dimensions - Inches (DOUBLE LETTER DIMENSIONS ARE FOR OVERALL REFERENCE ONLY)           Image: Dimensions - Inches (DOUBLE LETTER DIMENSIONS ARE FOR OVERALL REFERENCE ONLY)           Image: Dimensions - Inches (DOUBLE LETTER DIMENSIONS ARE FOR OVERALL REFERENCE ONLY)           Image: Dimensions - Inches (DOUBLE LETTER DIMENSIONS ARE FOR OVERALL REFERENCE ONLY)           Image: Dimensions - Inches (DOUBLE LETTER DIMENSIONS ARE FOR OVERALL REFERENCE ONLY)           Image: Dimensions - Inches (DOUBLE LETTER DIMENSIONS ARE FOR OVERALL REFERENCE ONLY)           Image: Dimensions - Inches (DOUBLE LETTER DIMENSIONS ARE FOR OVERALL REFERENCE ONLY)           Image: Dimensions - Inches (DOUBLE LETTER DIMENSIONS	<b>FIG.11</b>		DD FIG.12	5	FIG.13											[	Nos						<mark>∙† †</mark>
No.         No.         No.         No.         P         P         C         D         E         F         F         C         B         C         D         E         F         F         G         H         K         L         M         N         P         P         C           11         19:1/1.1         19:1/1.1         19:3/1.6         17:1/1.1         19:3/1.6         17:1/1.1         19:3/1.6         17:1/1.1         17:1/1.2         17:1/1.	FIG.15		KK 45 FIG.16						SID	E ELE	VATIO	N (drive	e side)	)	F	RONT	ELEV	ATIC	ON	FO	UNDAT	ION (pla	an) 🛦
BYZE         DAX         SMOUNT LOW         DE VINT SUM         DAX         B         C         D         E         F         P         G         H         K         M         N         P         P         G           13         22 56         2.3 /16         1/20.11         1.5 /8         1.7 /16         1.7 /16         1.7 /16         1.7 /16         1.7 /16         1.7 /16         1.7 /17         1.8 /17         2.8 /16         1.7 /16         2.3 /16         1.7 /16         2.3 /16         1.7 /16         2.1 /17         2.8 /16         1.7 /16         2.1 /17         2.8 /16         1.7 /16         2.1 /17         2.8 /16         1.7 /16         2.1 /17         2.8 /16         1.8 /17         3.1 /16         2.2 /16         2.7 /12         2.1 /16         2.8 /16         1.8 /16											ER D	IMEN	SION	IS ARE	FOR	OVE	RAL	L REF	ERENC		<u>)</u>		
13       22.64       2.3/16       1/2/14       12.7/16 <td< td=""><td></td><td></td><td>HAFT DIA</td><td>λ. KE1</td><td>WAY SIZE</td><td>A</td><td></td><td>в</td><td>с</td><td>1</td><td>5  </td><td>E</td><td>F</td><td>F1</td><td>G</td><td>н</td><td>к</td><td>L</td><td>N</td><td>1</td><td>N P</td><td>P<sup>1</sup></td><td>đ</td></td<>			HAFT DIA	λ. KE1	WAY SIZE	A		в	с	1	5	E	F	F1	G	н	к	L	N	1	N P	P <sup>1</sup>	đ
15       22 / 1/6       5/06/16       14 / 1/2       19 / 2/6       17 / 2/6       17 / 2/6       2/6       2/7 / 2/6       5/26       2/7 / 2/6       1/7 / 2/6						· · ·								-									
19       33       2.15/16       3/4/3/2       11/16       21/3       23/16       2						· · · ·		-									_						
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19       12       7/8       23       1/4       13       1/4       10       1/1       12       13       24       1/1							1 .													· · · ·	· · · · ·		
MAXIMUM MOTOR         ARRANGEMENT 9 DRIVE CENTERS           FAN         F-FNUES         FRAUE 15         FRAUE 145-145         FRAUE 122-215         FRAUE 24-266			-					_			1			-									
FAN         T-FRAMES         U-FRAMES         U-FRAMES         FRAME 163-145         FRAME 162-184         FRAME 213-215         FRAME 264-266         FRAME 24-326         FRAME 324-326         FRA	21 1	· · ·				/4 5/8	11 5/	8 14	1/32 5	6 13/16	•	• • • • •		• •	-		/4 77 3	/4 68	5/16	66	64 11/16	63 3/8	58 7/8
BAZE         OPPRTEFC         OUP         TERC         MIN.         MAX.			1			IF 56	FRAM	F 143-	-145	FRAME 1		1											64-365
13       256       256       256       160       18.3       17.0       19       25       17.62       20       18.7       21.43       Image: Constraint of the state of th											_												
15       286       286u       18.0       2.0.43       18.75       21.0       19.25       21.87       20.0       22.87       20.43       23.56       Image: constraint of the state of																		_			_		
19       365       365U       365U       21.37       23.67       21.87       24.6       22.5       25.56       22.81       26.25       23.62       27.43       24.5       28.75         11       365       365U																	20.43	2	3.56				
21       365       365U       365U       22.75       25.68       23.31       26.56       23.62       27.18       24.25       28.37       24.75       29.25         ITEM NO.       IDENTIFICATION       ARRGT       NO.       FAN       FIG.       WHEEL       CL       CPH       0.V.       SP       R.P.M.       TEMP       BHP       ELV.       HP.       R.P.M.       CURRENT       FRAME       TYPE         Image: Control of the control																							
ITEM NO.       IDENTIFICATION       ARRGT       NO. REQD       FAN SIZE       FIG. NO.       WHEEL NO.       CL       PERFORMANCE       MOTOR DATA         Image: Construction of the stress of the stre										21.37	23.87												
Image: Note of the second s		IDEN"	TIFICAT		ARRG'T					L CL.	CEM	0.1		_				1.57	шВ	_	_		
NO.       BASE       MOTOR       FAN       POS.       DASE       TYPE       TYPE       FEATURES         A=FLANGED INLET       A=FLANGED INLET       A=FLANGED INLET       M=INLET SCREEN         A=FLANGED INLET       B=CLENAUT DOOR-BOLTED       B=CLENAUT DOOR-BOLTED       B=CLENAUT DOOR-BOLTED       B=CLENAUT DOOR-BOLTED       D=DELT GUARD         A=FLANGED INLET       B=CLENAUT DOOR-BOLTED       B=CLENAUT DOOR-BOLTED       D=DELT GUARD       D=DELT GUARD         B=CLENAUT DOOR-BOLTED       D=DELT GUARD       B=CLENAUT DOOR-BOLTED       D=DELT GUARD       D=DELT GUARD         C=DRAIN OPENING       GENER       D=DELT GUARD       D=DELT GUARD       D=DELT GUARD         D=DLENAUUT DOOR-PUICK CLAMP       D=DELT GUARD       D=SERT GUARD       PELT GUARD       D=SHAT SEA         V=DRUCEY       DET       D       D       D=DELT GUARD       D=DELT GUARD       D=SHAT SEA         NOTES       SERIES       SERIES GUARD       M=SLF GUARD       SERIES BOLT       SERIES BAD       D=NLET GUARD         V=NUKEH       Motor base is furnished disregard foundation plan shown above and refer to vibration or unitary base Dwg.       CUSTOMER       D       D         JOB       NAME       DOCATION       DOCATION       SERIES 90000       ARRANGEMENT 1 & 9 SISW CLASS IV </td <td>NO.</td> <td></td> <td></td> <td></td> <td></td> <td>REQD.</td> <td>SIZE</td> <td>NO.</td> <td>TTPE</td> <td></td> <td>CFM</td> <td>0.v.</td> <td>SP</td> <td>к.Р.</td> <td>M. 16</td> <td>.MP. B</td> <td></td> <td>LEV.</td> <td>n.r</td> <td>r. R.P.</td> <td>M. CURREI</td> <td>NT FRAME</td> <td>ITPE</td>	NO.					REQD.	SIZE	NO.	TTPE		CFM	0.v.	SP	к.Р.	M. 16	.MP. B		LEV.	n.r	r. R.P.	M. CURREI	NT FRAME	ITPE
NO.       BASE       MOTOR       FAN       POS.       DASE       TYPE       TYPE       FEATURES         A=FLANGED INLET       A=FLANGED INLET       A=FLANGED INLET       M=INLET SCREEN         A=FLANGED INLET       B=CLENAUT DOOR-BOLTED       B=CLENAUT DOOR-BOLTED       B=CLENAUT DOOR-BOLTED       B=CLENAUT DOOR-BOLTED       D=DELT GUARD         A=FLANGED INLET       B=CLENAUT DOOR-BOLTED       B=CLENAUT DOOR-BOLTED       D=DELT GUARD       D=DELT GUARD         B=CLENAUT DOOR-BOLTED       D=DELT GUARD       B=CLENAUT DOOR-BOLTED       D=DELT GUARD       D=DELT GUARD         C=DRAIN OPENING       GENER       D=DELT GUARD       D=DELT GUARD       D=DELT GUARD         D=DLENAUUT DOOR-PUICK CLAMP       D=DELT GUARD       D=SERT GUARD       PELT GUARD       D=SHAT SEA         V=DRUCEY       DET       D       D       D=DELT GUARD       D=DELT GUARD       D=SHAT SEA         NOTES       SERIES       SERIES GUARD       M=SLF GUARD       SERIES BOLT       SERIES BAD       D=NLET GUARD         V=NUKEH       Motor base is furnished disregard foundation plan shown above and refer to vibration or unitary base Dwg.       CUSTOMER       D       D         JOB       NAME       DOCATION       DOCATION       SERIES 90000       ARRANGEMENT 1 & 9 SISW CLASS IV </td <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>+</td> <td></td> <td></td>											-									-	+		
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PUNCHED			MOTOR			1			DAG	-							PTION	IAL A	ACCE	ESSOF	RIES		
Image: Construction of the state of th	NO.	BASE	PULLEY	r PÜ				-US.	TYP		PE FEA	IURES	A= R-	=FLANGE PUNCH		T INPUNCHED	0			M=INLE N=HEA	t screen /y duty l.s	S. WHEEL	
NOTES       C=SHAFT SEAL       Count of the Dot Date of the													C= D=	=Cleano =Cleano	out doi out doi	or-quick or-plug	CLAMP			Q=SHA	GUARD T/BEARING GREASE FT	GUARD	
NOTES       NOTES													F=	=SPECIAI =Shaft	L FINISH	I-SEE NO				S=MOU T=INLE	NT MOTOR	& DRIVES	
<ul> <li>S Flanged outlet is not std. on DB &amp; BAD units. When flanged outlet (punched) is required on DB (Fig.7&amp;17) or BAD (Fig.8&amp;18) units.</li> <li>▲ When vibration or unitary base is furnished disregard foundation plan shown above and refer to vibration or unitary base Dwg.</li> <li>Refer to order acknowledgment for shipping details.</li> <li>CUSTOMER</li></ul>					NOT	<u>ES</u>							H: J= K=	=SPARK =OUTLET =HEAVY =COOLIN	RESIST DAMPE DUTY F G WHEE	.const.(Se Tr Housing Tl	e notes	)	G	V=PUN DB & W=SLIP	CHED FLANC BAD ONL' FIT INLET	SED OUTLE Y	r
When vibration or unitary base is furnished disregard foundation plan shown above and refer to vibration or unitary base Dwg. Refer to order acknowledgment for shipping details.      JOB NAME LOCATION SERIES 9000 ARRANGEMENT 1 & 9 SISW CLASS IV									inged ou	tlet (pu	nched) is	F											
above and refer to vibration or unitary base Dwg.         Refer to order acknowledgment for shipping details.         JOB NAME         LOCATION         SERIES 9000         ARRANGEMENT 1 & 9 SISW CLASS IV												CUSIO	MER						P.0.#	!			
SERIES 9000 ARRANGEMENT 1 & 9 SISW CLASS IV																							
ARRANGEMENT 1 & 9 SISW CLASS IV	Refer to order acknowledgment for shipping details.											LOCATI	ON										
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Fixed Discharge - Sizes 11 to 21																	NGEM	ENT	1&	9 SISV			
SHELDONS ENGINEERING														J									
www.sheldonsengineering.com sales@sheldonsengineering.com																V	/ww.shel	Idons	engine	ering.co	m		
FURNISHED FOR SALES DATE SUBMITTED BY SALES OFFICE																30			Jongin			SALES OF	FICE
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* WHEEL TYPES: X0 = Long Shavings, XB = Air/Material APRRVAL-NOT REQUIRED-RELEASED FOR PRODUCTION 9000-03-97	I . MH	ICEL IYPE	э: <mark>ХО</mark>	= Lor	ng Shaving	s, XB =	Air/Ma	terial					Require For Pro	D-RELEAS	SED								





