SERIOUS SERVICE ™ VIBES Canada 604-681-9444 www.vibescorp.ca

VIBES Corp. Est. 1967

Affiliated Company: AB BalanceTech Inc. Calgary, Alberta
720 - 999 W. Broadway, Vancouver, B.C. V5Z 1K5
www.vibescorp.ca email: info@vibescorp.ca
P- 604-681-9444 C- 604-619-9381 F- 604-738-4080
Toll Free Canada 1-866-680-9444

Lau Industries, Inc.

HVAC Replacement Parts

Blower Parts and Accessories

Replacement Blowers, Wheels, Parts and Service Tools.

Blowers are an important part of any furnace, ventilation or air moving equipment. Over time, bearings may become worn and sloppy, blower wheels can become caked with grease or grime or even damaged. The following parts feature Lau's exclusive Universal Replacement products used by heating, air conditioning, refrigeration, plumbing, and ventilating service companies everywhere. Whether you need a complete direct driven or belt driven blower, or just the replacement parts chances are we have the parts to solve your repair needs. See our blower installation, adjustment and service guide for *Belt Drive Blowers* and *Direct Drive Blowers*.

Belt Drive Blowers
Belt Drive Selection

Double Inlet Belt Drive Blower Wheels
Double Inlet Direct Drive Blower Wheels
Double Inlet Blower Wheels

Direct Drive Blowers

Single Inlet Blower Wheels

Parts & Accessories

Made to Order Forward Curve Blower Wheels

Heavy Duty and Made to Order Blower Wheels.

Forward curve blower wheels are used in centrifugal fans and air blowers where large volumes of air need to be supplied in ducted air supply applications. Indiana Fan can supply, manufacture or rebuild hard to find and various types of wheels ranging from squirrel cage, forward curve, backward curve, backward inclined, air foil and radial blade in class I, class II, mild steel, aluminum and stainless steel for various speeds, temperatures and corrosive environments.

Single Inlet

20"-36" Double Inlet "H" & "K" Series

Double Inlet

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Toll Free Canada 1-866-680-9444

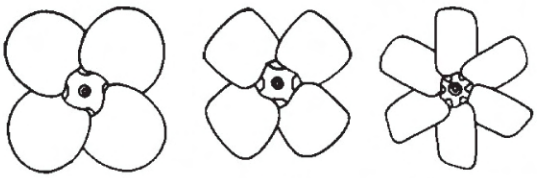
Lau Industries, Inc.

HVAC Replacement Parts

Condenser Propellers

Lau Universal Replacement Propellers.

"Universal Replacement" means that Lau may be used to replace any type of propeller - regardless of manufacturer - in virtually all applications. There are only three basic important shapes that are of interest in the propeller selection - round, wide pressure and narrow pressure blades.



Round Wide Narrow

The *round shaped blades* are for used for free air delivery and low pressure applications, and are quieter.
The *wide pressure blade* is used in most applications operating at substantial static pressures. It has excellent pressure characteristics and reasonable noise levels.
The *narrow pressure blade* is generally used in applications where high static pressure exists, such as multi-row coils or places where minimum axial depth is necessary.
- Visit our *Selection & Application Guide* for replacement propellers for valuable information.

2 Blade Propeller

3 Blade Free Air Type Propeller

3 Blade Heavy Duty Propeller

4 Blade Free Air Type Propeller

4 Blade Heavy Duty Propeller

5 Blade Heavy Duty Propeller

Small Propeller - Hub Type

Fan Blade Accessories & Tools

Hubless Type Small Propeller

Large Heavy Duty Steel Propellers

These units are designed for use in:
Industrial Air Circulators, Exhaust Fan Units, Air Cooled Condensing Units, Small Cooling Towers, Agricultural Ventilation Equipment, Large Unit Heaters, Commercial and Industrial Equipment, Roof Top Air Conditioners, General Cooling and Heating Applications.

3 Blade Large Heavy Duty Propeller

6 Blade Large Heavy Duty Propeller

4 Blade Large Heavy Duty Propeller

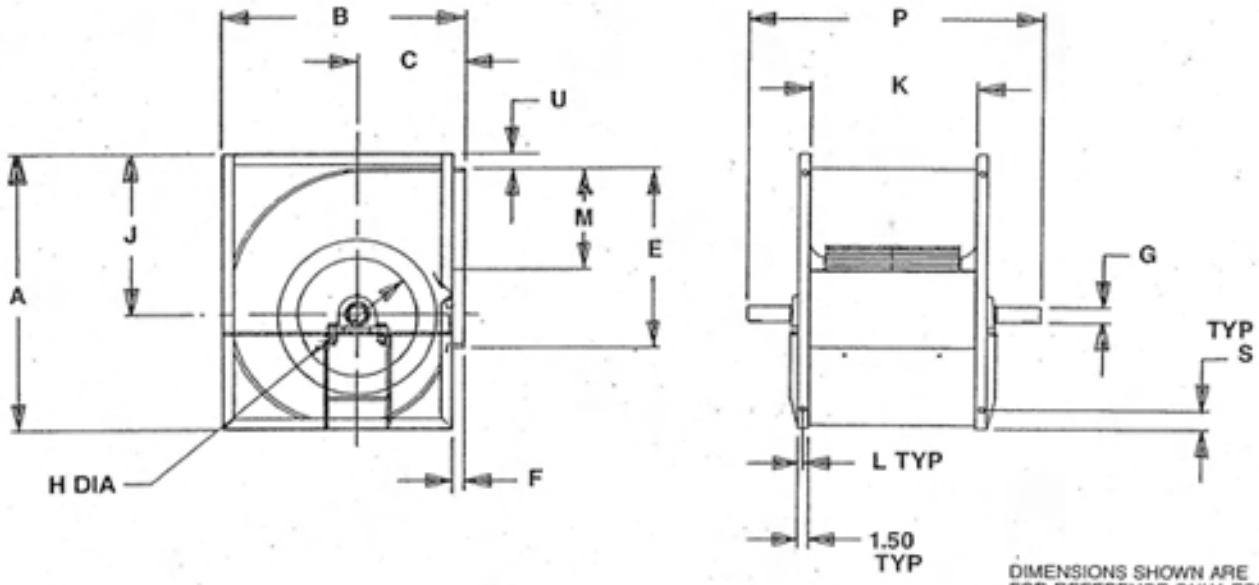
'A' SERIES CLASS II BLOWER

Specification Sheet

Sheet 2 of 2

Number: 319

Date: 7-12-89



DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. FOR CERTIFIED PRODUCT DIMENSIONS CONTACT LAU ENGINEERING.

MODEL	A	B	C	E	F	G	H	J	K	L	M	P	S	U	MAX RPM	MAX HP	MAX BP**	O.A. SQ FT	BLOWER WEIGHT
A9-4A	16.69	15.19	7.19	10.25	1.00	.75	7.81	9.62	6.81	.62	6.31	15.06	1.00	1.00	2894	5	82	.48	36
A9-6A	16.69	15.19	7.19	10.25	1.00	.75	7.81	9.62	8.25	.62	6.31	16.50	1.00	1.00	2852	5	83	.58	37
A9-7A	16.69	15.19	7.19	10.25	1.00	.75	7.81	9.62	9.19	.62	6.31	17.44	1.00	1.00	2854	5	83	.65	39
A9-8A	16.69	15.19	7.19	10.25	1.00	.75	7.81	9.62	10.50	.62	6.31	18.75	1.00	1.00	*2876	7.5	96	.75	40
A9-9A	16.69	15.19	7.19	10.25	1.00	.75	7.81	9.62	11.81	.62	6.31	20.06	1.00	1.00	*2896	7.5	96	.83	42
A10-4A	18.62	16.81	7.94	11.38	1.00	.75	8.81	10.69	6.81	.62	7.00	15.06	1.00	1.00	2598	5	87	.53	40
A10-6A	18.62	16.81	7.94	11.38	1.00	.75	8.81	10.69	8.25	.62	7.00	16.50	1.00	1.00	2488	5	90	.65	41
A10-7A	18.62	16.81	7.94	11.38	1.00	.75	8.81	10.69	9.69	.62	7.00	17.94	1.00	1.00	2486	7.5	92	.77	43
A10-8A	18.62	16.81	7.94	11.38	1.00	.75	8.81	10.69	10.50	.62	7.00	18.75	1.00	1.00	2471	7.5	93	.81	44
A10-9A	18.62	16.81	7.94	11.38	1.00	.75	8.81	10.69	12.25	.62	7.00	20.25	1.00	1.00	*2498	7.5	93	.97	46
A10-10A	18.62	16.81	7.94	11.38	1.00	.75	8.81	10.69	13.12	.62	7.00	21.38	1.00	1.00	*2518	7.5	97	1.02	47
A12-6A	21.62	19.62	9.06	13.44	1.00	1.00	10.38	12.50	8.81	.62	8.38	17.06	1.00	1.00	2069	7.5	98	.82	52
A12-8A	21.62	19.62	9.06	13.44	1.00	1.00	10.38	12.50	10.75	.62	8.38	19.00	1.00	1.00	2060	7.5	98	1.00	55
A12-9A	21.62	19.62	9.06	13.44	1.00	1.00	10.38	12.50	12.25	.62	8.38	20.50	1.00	1.00	2058	7.5	98	1.13	56
A12-11A	21.62	19.62	9.06	13.44	1.00	1.00	10.38	12.50	14.69	.62	8.38	22.94	1.00	1.00	*2040	10	107	1.37	61
A12-12A	21.62	19.62	9.06	13.44	1.00	1.19	10.38	12.50	15.62	.62	8.38	24.75	1.00	1.00	*2091	10	173	1.44	66
A15-6A	25.50	22.94	10.50	15.88	1.00	1.19	12.62	14.56	9.19	.62	9.69	17.88	1.00	1.00	1745	7.5	164	1.02	71
A15-9A	25.50	22.94	10.50	15.88	1.00	1.19	12.62	14.56	12.81	.62	9.69	21.50	1.00	1.00	1729	10	177	1.41	77
A15-11A	25.50	22.94	10.50	15.88	1.00	1.19	12.62	14.56	14.69	.62	9.69	23.38	1.00	1.00	1714	15	184	1.59	80
A15-12A	25.50	22.94	10.50	15.88	1.00	1.19	12.62	14.56	16.00	.62	9.69	25.25	1.00	1.00	1720	15	185	1.76	84
A15-15A	25.50	22.94	10.50	15.88	1.00	1.19	12.62	14.56	18.62	.62	9.69	27.88	1.00	1.00	*1725	15	203	2.01	88
A18-9A	30.44	27.25	12.38	18.88	1.00	1.19	15.50	17.31	12.88	.62	11.75	23.12	1.00	1.00	1502	15	192	1.68	101
A18-13A	30.44	27.25	12.38	18.88	1.00	1.19	15.50	17.31	17.38	.62	11.75	27.62	1.00	1.00	1478	15	195	2.28	114
A18-15A	30.44	27.25	12.38	18.88	1.00	1.19	15.50	17.31	18.88	.62	11.75	29.50	1.00	1.00	*1501	20	206	2.47	120
A18-18A	30.44	27.25	12.38	18.88	1.00	1.44	15.50	17.31	21.88	.62	11.75	32.50	1.00	1.00	*1501	25	257	2.87	129
A20-9A	38.00	32.75	14.44	24.75	1.50	1.44	16.25	22.53	13.75	.75	14.00	24.25	2.50	2.00	*1328	20	264	2.36	190
A20-13A	38.00	32.75	14.44	24.75	1.50	1.44	16.25	22.53	18.25	.75	14.00	28.25	2.50	2.00	*1321	25	268	3.14	207
A20-15A	38.00	32.75	14.44	24.75	1.50	1.44	16.25	22.53	19.75	.75	14.00	30.25	2.50	2.00	*1316	25	269	3.39	219
A20-18A	38.00	32.75	14.44	24.75	1.50	1.44	16.25	22.53	22.75	.75	14.00	33.25	2.50	2.00	*1302	30	293	3.91	230

	INLET AREA (FT^2)					
SIZE	9"	10"	12"	15"	18"	20"
	1.01	1.31	1.76	2.66	3.89	4.98

OUTLET VELOCITY: FPM=CFM/OUTLET AREA

BLAST AREA: BA=(M/E) x OUTLET AREA

** BP-BELT PULL (LBS)

*WHEEL MUST BE BRACED TO OBTAIN MAX. CLASS II LIMIT

DIMENSIONS IN INCHES

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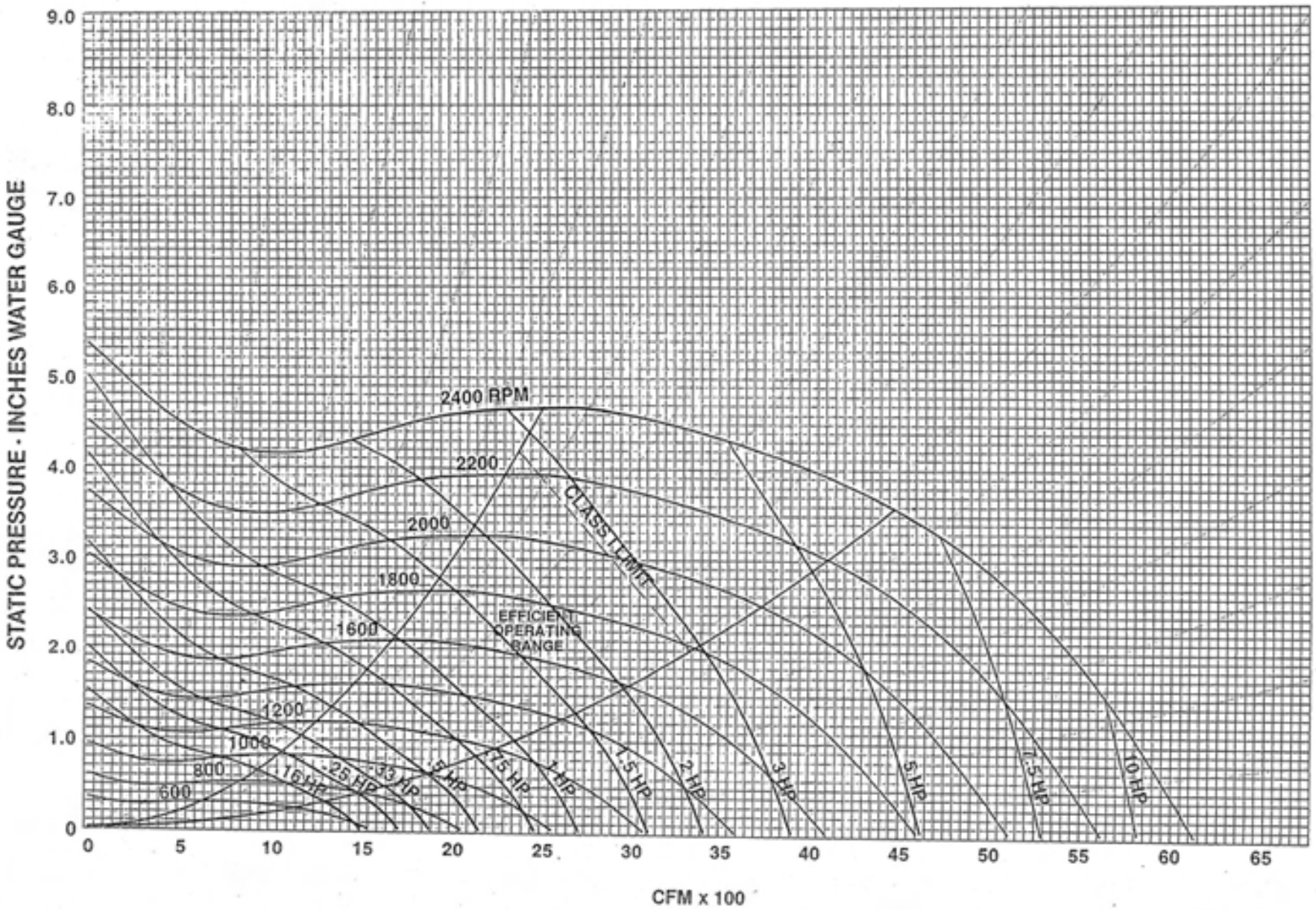
LAU FC DIDW STOCK BLOWER LIST

BLOWER WHEEL	SHAFT DIAMETER (INCHES)					
A9 / 9A	3/4					
A10 / 10A	1	1 3/16				
A12 / 12A	1	1 3/16	1 7/16			
A15 / 9A	1 3/16	1 7/16				
A15 / 15A	1	1 7/16				
A18 / 13A	1 7/16					
A18 / 18A	1	1 7/16	1 11/16	1 15/16	2 3/16	
A20 / 18H	1 7/16	1 11/16	1 15/16	2 3/16	2 7/16	
A22 / 22H	1 7/16	1 11/16	1 15/16	2 3/16	2 7/16	
A25 / 25H	1 7/16	1 11/16	1 15/16	2 3/16	2 7/16	2 15/16
A27½ / 27½H	1 7/16	1 11/16	1 15/16	2 3/16	2 7/16	2 15/16
A30 / 27H	1 15/16	2 3/16	2 7/16	2 15/16		
A30 / 30H	1 15/16	2 3/16	2 7/16	2 15/16		
A36 / 30H	1 15/16	2 3/16	2 7/16	2 15/16		
A36 / 36H	1 15/16	2 3/16	2 7/16	2 15/16		

All fans are heavy duty and the steel hubs on the larger diameter models can be removed to bore out to any size for your requirements. We can also supply steel shafts, any bearings, belts and drives at competitive pricing. If you need full repair, installation and dynamic or performance balancing services, we do it all. Just check or other web pages for further details. Rush orders are our specialty.



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MODEL A9-9A
CLASS I

LAU DIVISION
Phillips Industries Inc.

GRAPH NO. L1136-1
DATE 8-14-72
WHEEL DIA. 9.50
WHEEL WIDTH 9.50
OUTLET AREA .836

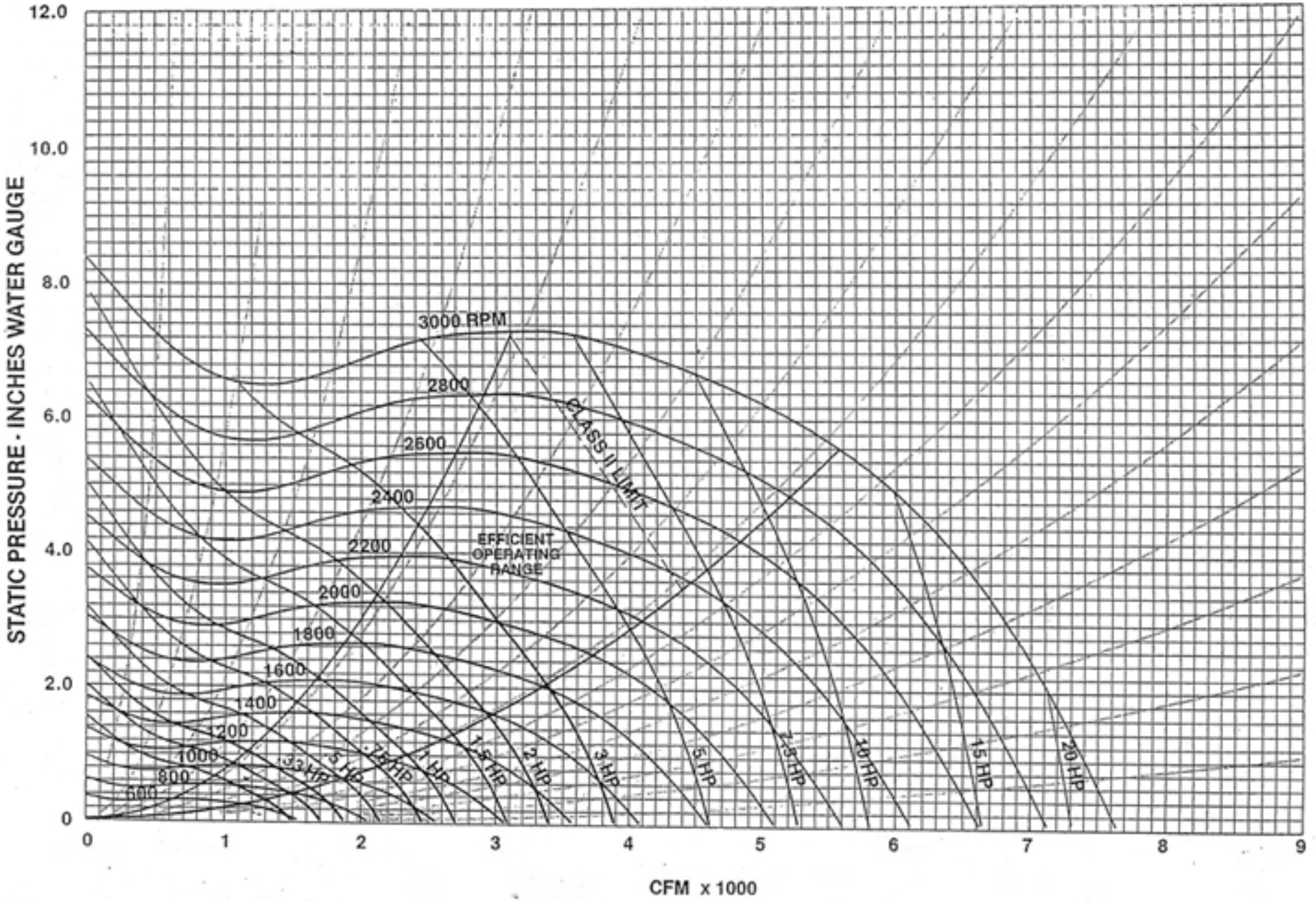
Performance curves based on test made in accordance with ASHRAE 51-1985, AMCA 210-85. Tested without inlet duct and with discharge duct. Brake horsepower does not include drive losses. Standard Air Density 0.075 lb./cu. ft.

$$SE = \frac{CFM \times SP}{6362 \times BHP}$$

$$BHP = \frac{RPM \times (oz.\ ft.)}{84034}$$

SEE SPECIFICATION SHEET 316, 318, 319

MODEL A9-9A
CLASS II



LAU DIVISION
Philips Industries Inc.

GRAPH NO. L1136-1
DATE 8-14-72
WHEEL DIA. 9.50
WHEEL WIDTH 9.50
OUTLET AREA .836
(Square Feet)

Performance curves based on test made in accordance with ASHRAE 51-1985, AMCA 210-85. Tested without inlet duct and with discharge duct. Brake horsepower does not include drive losses. Standard Air Density 0.075 lb./cu. ft.

$$SE = \frac{CFM \times SP}{6362 \times BHP}$$

$$BHP = \frac{RPM \times (oz.\ ft.)}{84034}$$

SEE SPECIFICATION SHEET 316, 318, 319 FOR OPERATIONAL LIMITS.

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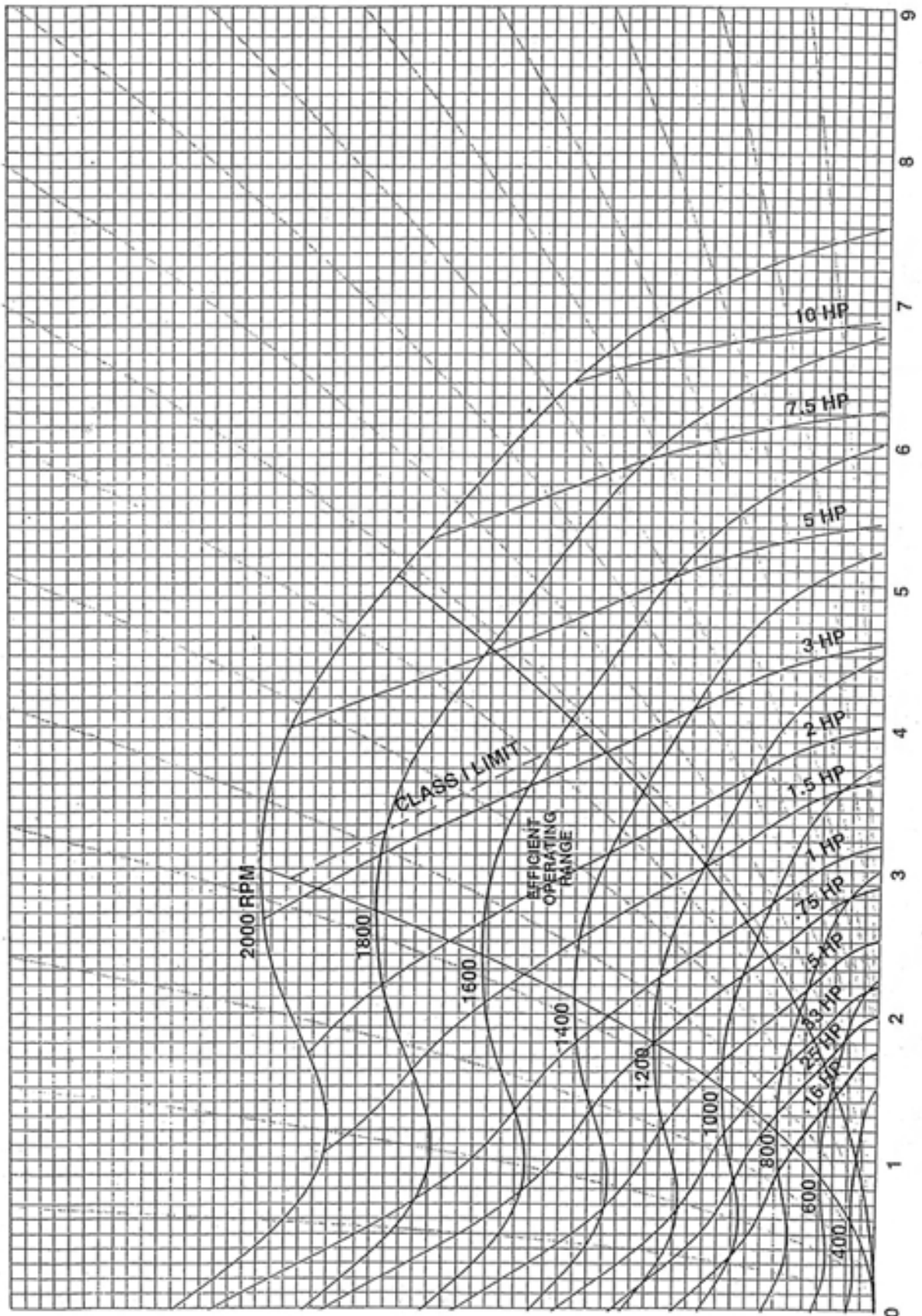
MODEL A10-10A
CLASS I



STATIC PRESSURE - INCHES WATER GAUGE

CFM x 1000

$$SE = \frac{CFM \times SP}{6362 \times BHP}$$

$$BHP = \frac{RPM \times (oz.\ ft.)}{84034}$$

Performance curves based on test made in accordance with ASHRAE 51-1985, AMCA 210-85. Tested without inlet duct and with discharge duct. Brake horsepower does not include drive losses. Standard Air Density

SEE SPECIFICATION SHEET 316, 318, 319

GRAPH NO. L1139-1
DATE 8-17-72
WHEEL DIA. 10.62
WHEEL WIDTH 10.62
OUTLET AREA 1.02

LAU DIVISION
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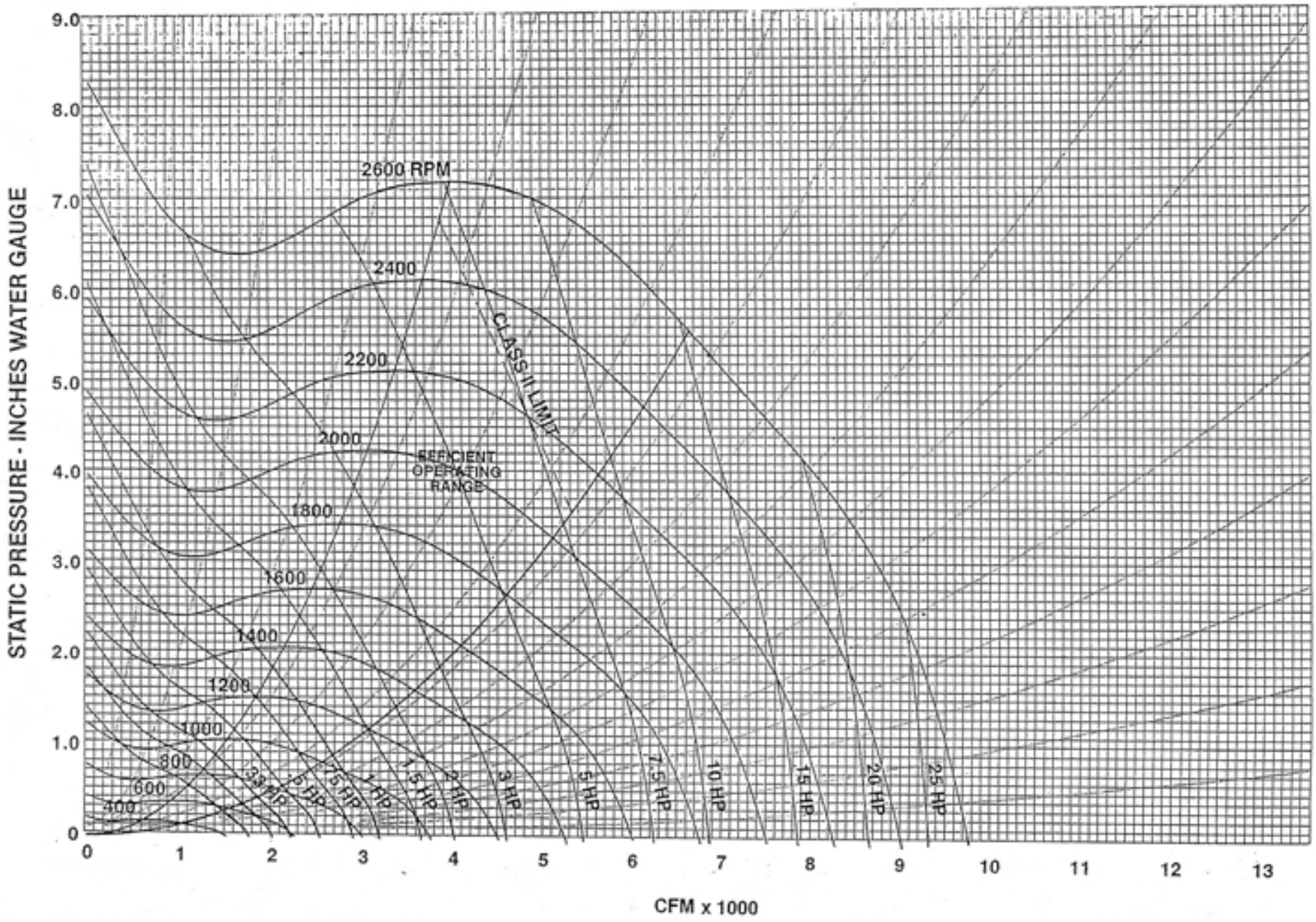
MODEL A10-10A
CLASS II



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Philips Industries Inc.

GRAPH NO. L1139-1
DATE 8-17-72
WHEEL DIA. 10.62
WHEEL WIDTH 10.62
OUTLET AREA 1.02
(Square Feet)

Performance curves based on test made in accordance with ASHRAE 51-1985, AMCA 210-85. Tested without inlet duct and with discharge duct. Brake horsepower does not include drive losses. Standard Air Density 0.075 lb./cu. ft.

$$SE = \frac{CFM \times SP}{6362 \times BHP}$$

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SEE SPECIFICATION SHEET 316, 318, 319 FOR OPERATIONAL LIMITS.

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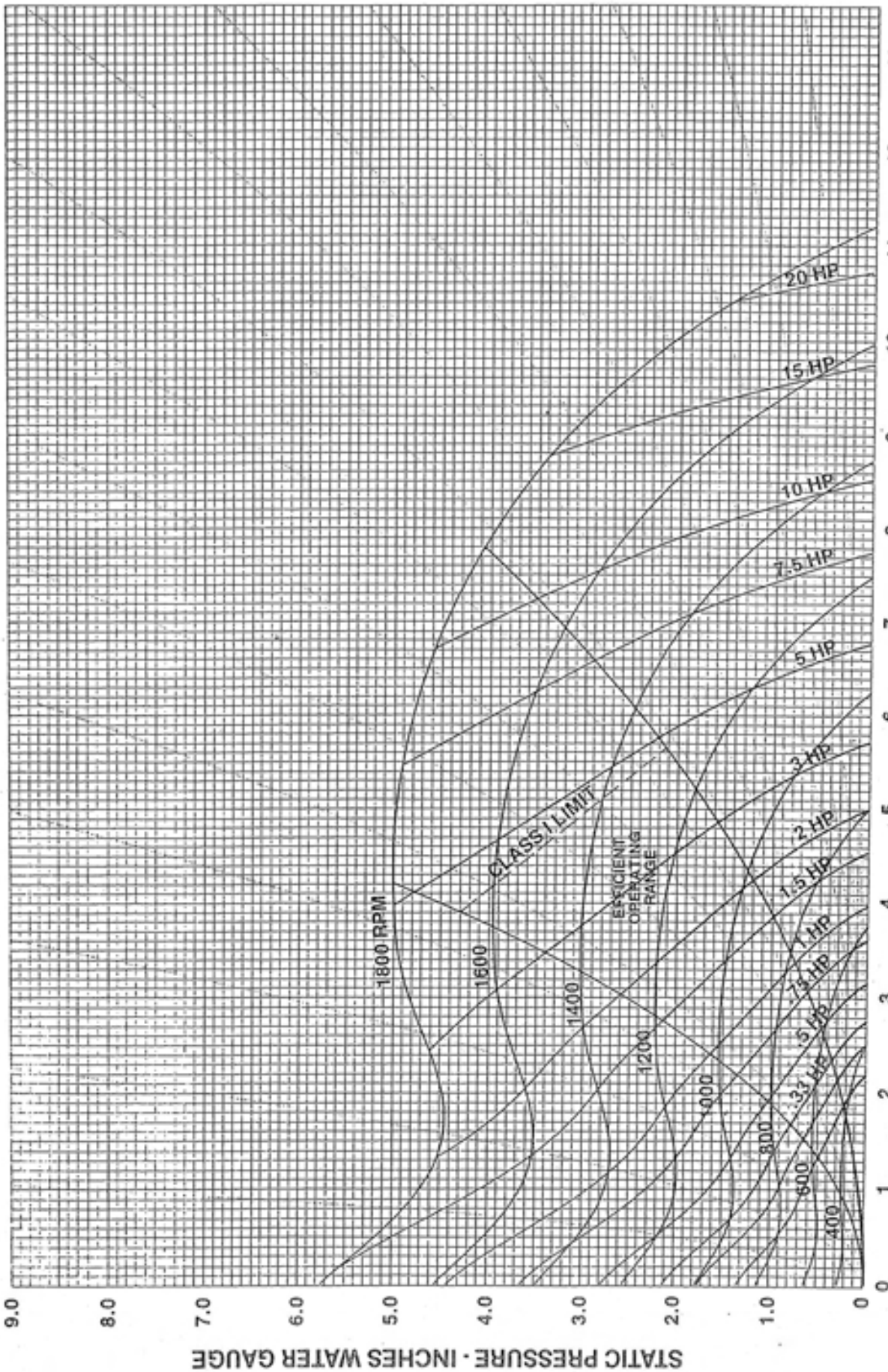
MODEL A12-12A
CLASS I



$$SE = \frac{CFM \times SP}{6362 \times BHP}$$

$$BHP = \frac{RPM \times (oz.\ ft.)}{84034}$$

SEE SPECIFICATION SHEET 307, 316, 318, 319
FOR OPERATIONAL LIMITS.

Performance curves based on test made in accordance with ASHRAE 51-1985, AMCA 210-85. Tested without inlet duct and with discharge duct. Brake horsepower does not include drive losses. Standard Air Density 0.075 lb./cu. ft.

GRAPH NO. L2244-1
DATE 8-8-75
WHEEL DIA. 12.62
WHEEL WIDTH 12.62
OUTLET AREA 1.44
(Square Feet)

LAU DIVISION
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MODEL A12-12A
CLASS II

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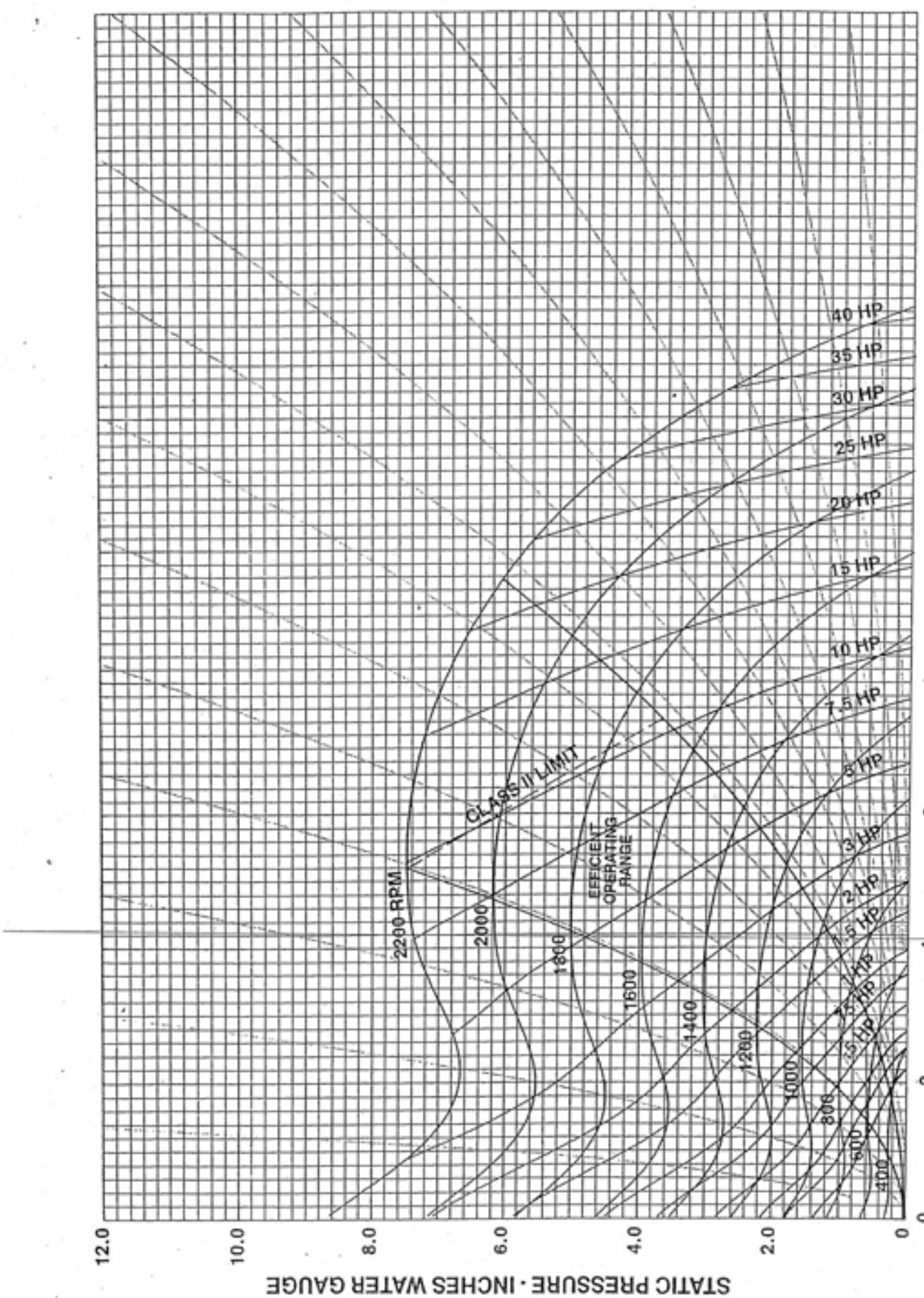

$$SE = \frac{CFM \times SP}{6362 \times BHP}$$

$$BHP = \frac{RPM \times (oz.\ ft.)}{84034}$$

Performance curves based on test made in accordance with ASHRAE 51-1985, AMCA 210-85. Tested without inlet duct and with discharge duct. Brake horsepower does not include drive losses. Standard Air Density 0.075 lb./cu. ft.

SEE SPECIFICATION SHEET 307, 316, 318, 319 FOR OPERATIONAL LIMITS.

GRAPH NO.	L2244-1
DATE	8-8-75
WHEEL DIA.	12.62
WHEEL WIDTH	12.62
OUTLET AREA (Square Feet)	1.44

LAU DIVISION
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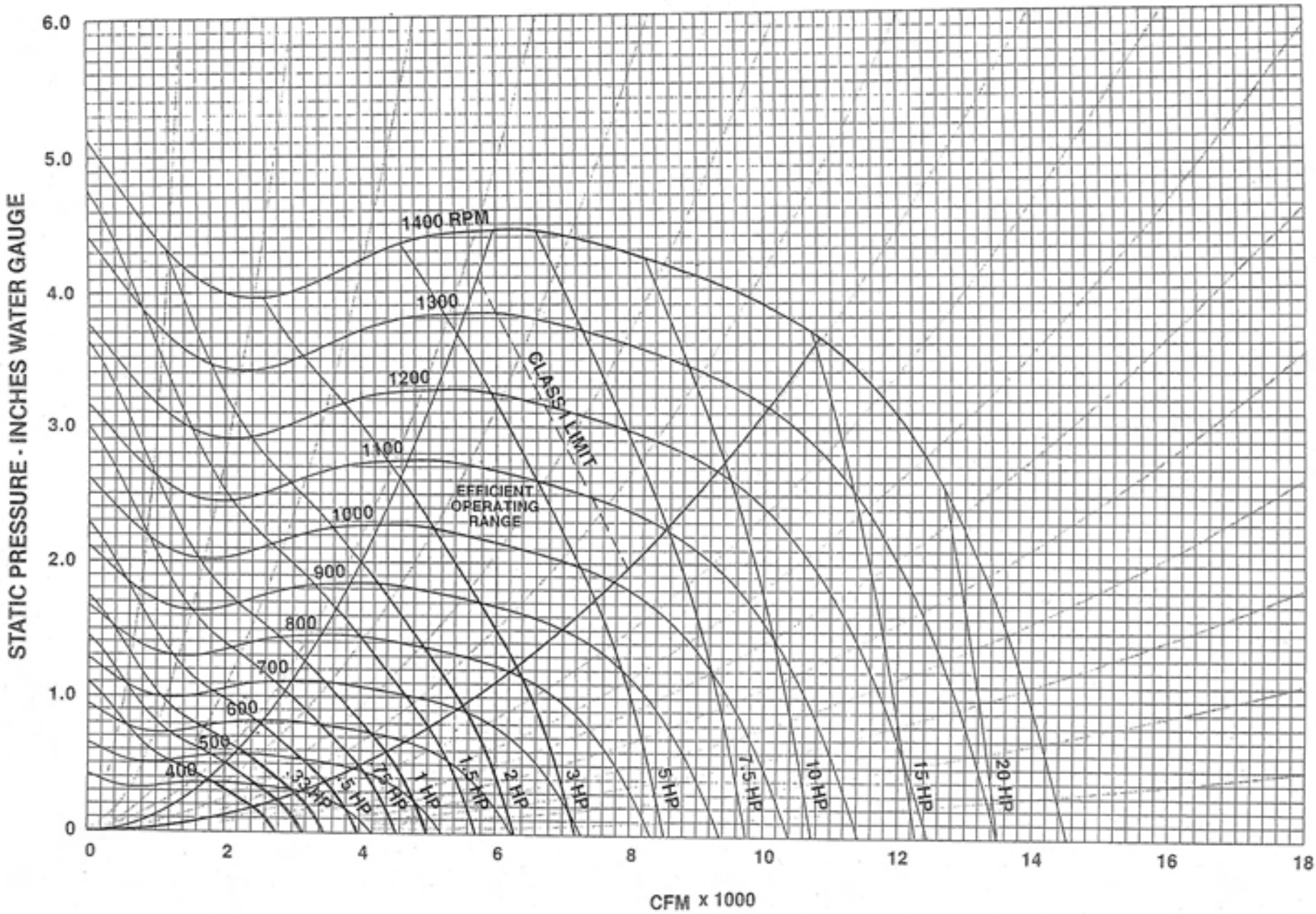

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MODEL A15-15A
CLASS I

LAU DIVISION
Phillips Industries Inc.

GRAPH NO. L4758-2
DATE 1-13-88
WHEEL DIA. 15.0
WHEEL WIDTH 15.0
OUTLET AREA 2.01
(Square Feet)

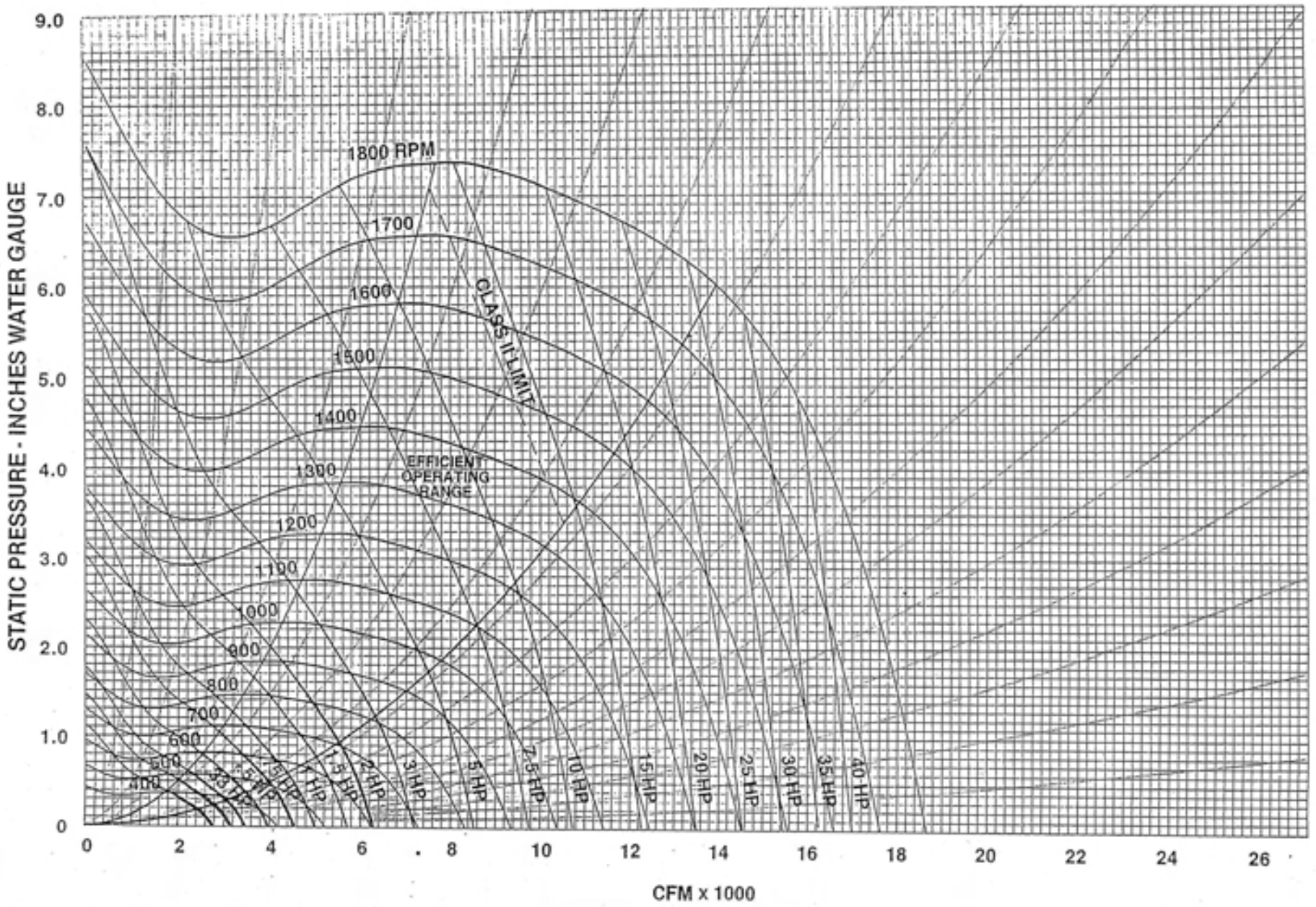
Performance curves based on test made in accordance with ASHRAE 51-1965, AMCA 210-85. Tested without inlet duct and with discharge duct. Brake horsepower does not include drive losses. Standard Air Density 0.075 lb./cu. ft.

$$SE = \frac{CFM \times SP}{6362 \times BHP}$$

$$BHP = \frac{RPM \times (oz.\ ft.)}{84034}$$

SEE SPECIFICATION SHEET 307, 316, 318, 319
FOR OPERATIONAL LIMITS

MODEL A15-15A
CLASS II



LAU DIVISION
Philips Industries Inc.

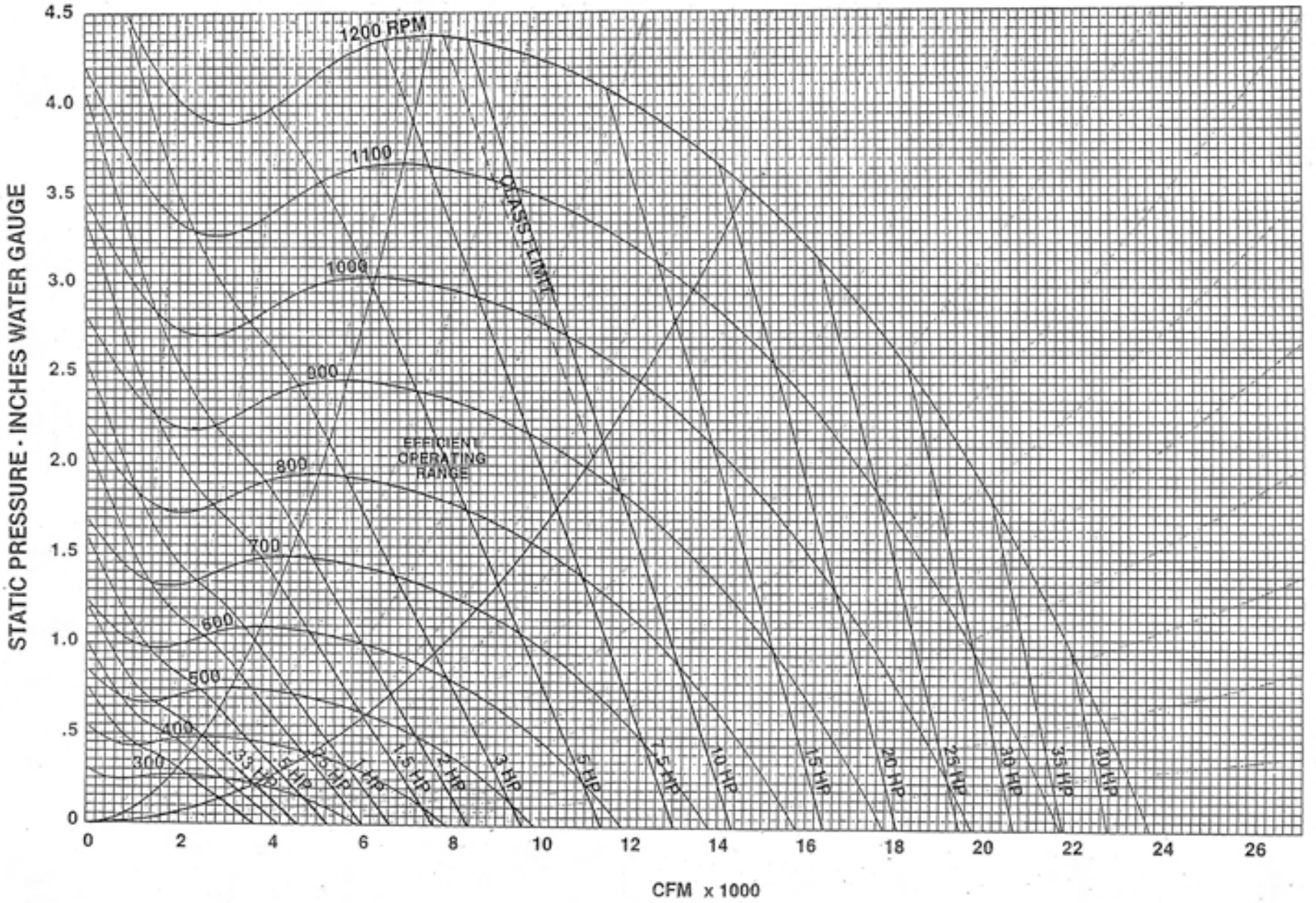
GRAPH NO. L4758-2
DATE 1-13-88
WHEEL DIA. 15.0
WHEEL WIDTH 15.0
OUTLET AREA 2.01
(Square Feet)

Performance curves based on test made in accordance with ASHRAE 51-1985, AMCA 210-85. Tested without inlet duct and with discharge duct. Brake horsepower does not include drive losses. Standard Air Density 0.075 lb./cu. ft.

$$SE = \frac{CFM \times SP}{6362 \times BHP}$$

$$BHP = \frac{RPM \times (oz.\ ft.)}{84034}$$

SEE SPECIFICATION SHEET 307, 316, 318, 319 FOR OPERATIONAL LIMITS.



MODEL A18-18A
CLASS I

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LAU DIVISION
Philips Industries Inc.

GRAPH NO. L2145-2
DATE 12-15-75
WHEEL DIA. 18.12
WHEEL WIDTH 18.0
OUTLET AREA 2.87
(Square Feet)

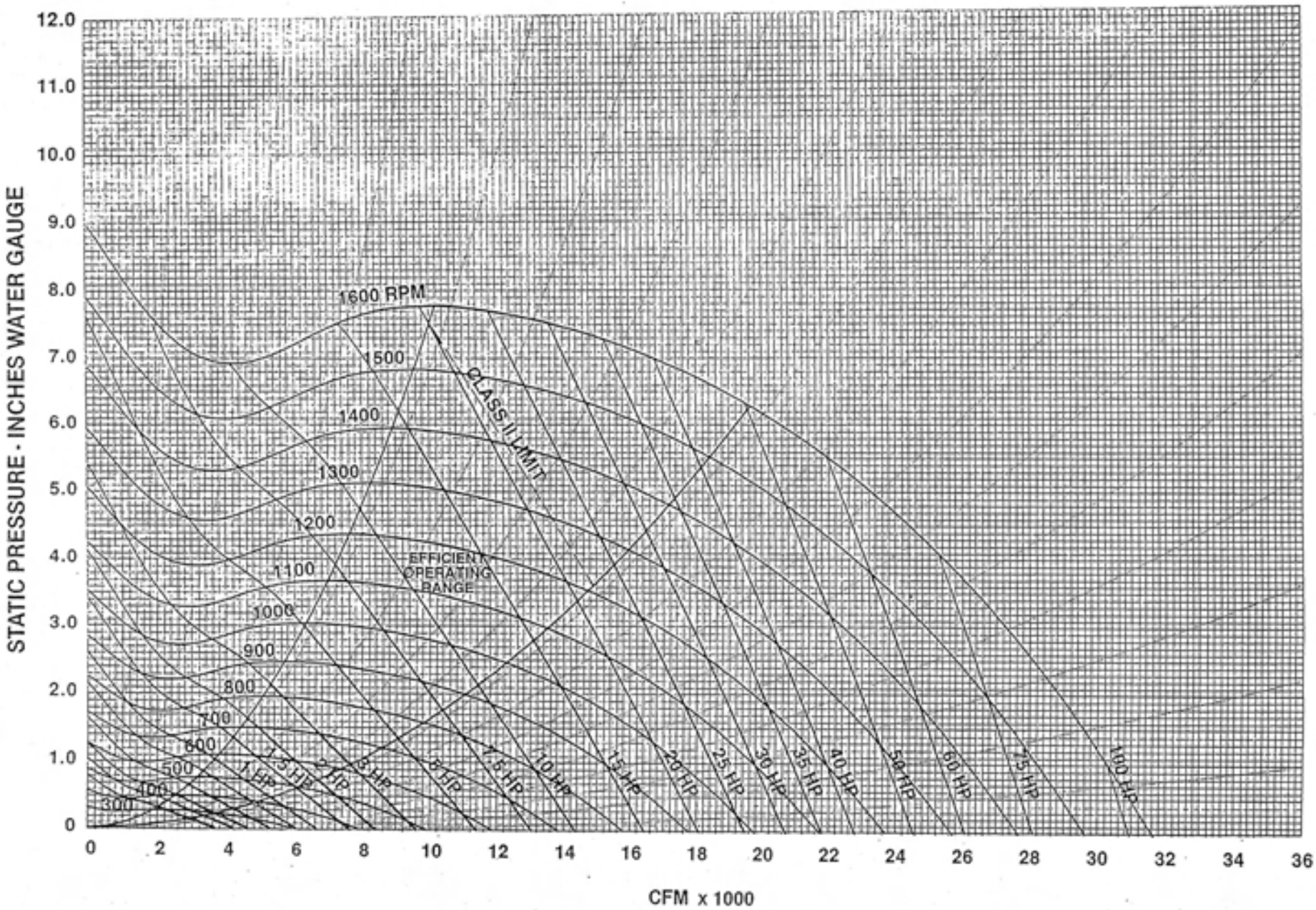
Performance curves based on test made in accordance with ASHRAE 51-1985, AMCA 210-85. Tested without inlet duct and with discharge duct. Brake horsepower does not include drive losses. Standard Air Density 0.075 lb./cu. ft.

$$SE = \frac{CFM \times SP}{6362 \times BHP}$$

$$BHP = \frac{RPM \times (oz.\ ft.)}{84034}$$

SEE SPECIFICATION SHEET 307, 316, 318, 319
FOR OPERATIONAL LIMITS

MODEL A18-18A
CLASS II



LAU DIVISION
Philips Industries Inc.

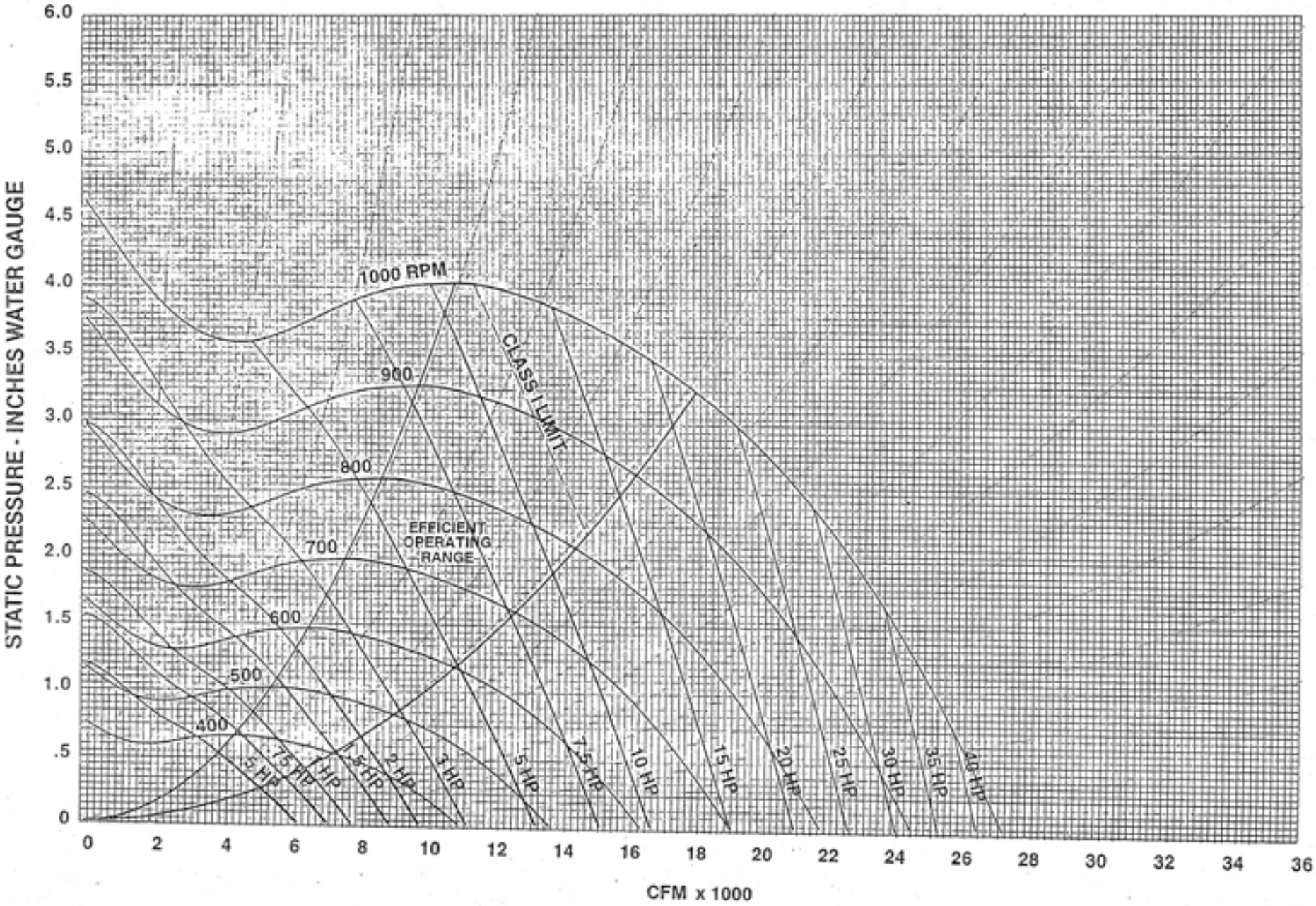
GRAPH NO.	L2145-2
DATE	12-15-75
WHEEL DIA.	18.12
WHEEL WIDTH	18.0
OUTLET AREA (Square Feet)	2.87

Performance curves based on test made in accordance with ASHRAE 51-1985, AMCA 210-85. Tested without inlet duct and with discharge duct. Brake horsepower does not include drive losses. Standard Air Density 0.075 lb./cu. ft.

$$SE = \frac{CFM \times SP}{6362 \times BHP}$$

$$BHP = \frac{RPM \times (oz.\ ft.)}{84034}$$

SEE SPECIFICATION SHEET 307, 316, 318, 319
FOR OPERATIONAL LIMITS



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MODEL A20-18A CLASS I

LAU DIVISION
Philips Industries Inc.

GRAPH NO.	L3772-1
DATE	11-1-82
WHEEL DIA.	20.0
WHEEL WIDTH	18.0
OUTLET AREA	3.88

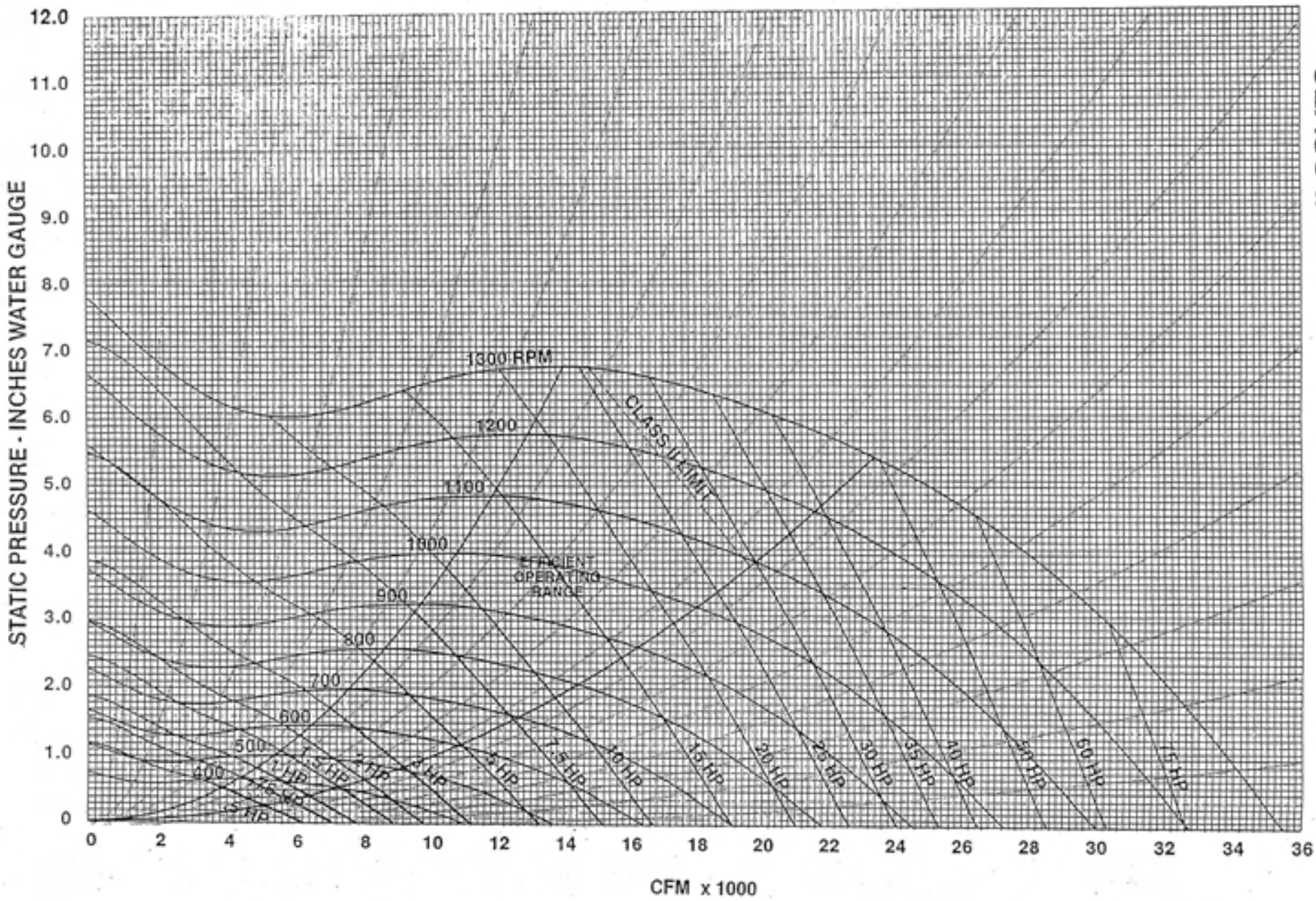
Performance curves based on test made in accordance with ASHRAE 51-1985, AMCA 210-85. Tested without inlet duct and with discharge duct. Brake horsepower does not include drive losses. Standard Air Density 0.075 lb./cu. ft.

$$SE = \frac{CFM \times SP}{6362 \times BHP}$$

$$BHP = \frac{RPM \times (oz.\ ft.)}{84034}$$

SEE SPECIFICATION SHEET 307, 318, 319

MODEL A20-18A
CLASS II



LAU DIVISION
Philips Industries Inc.

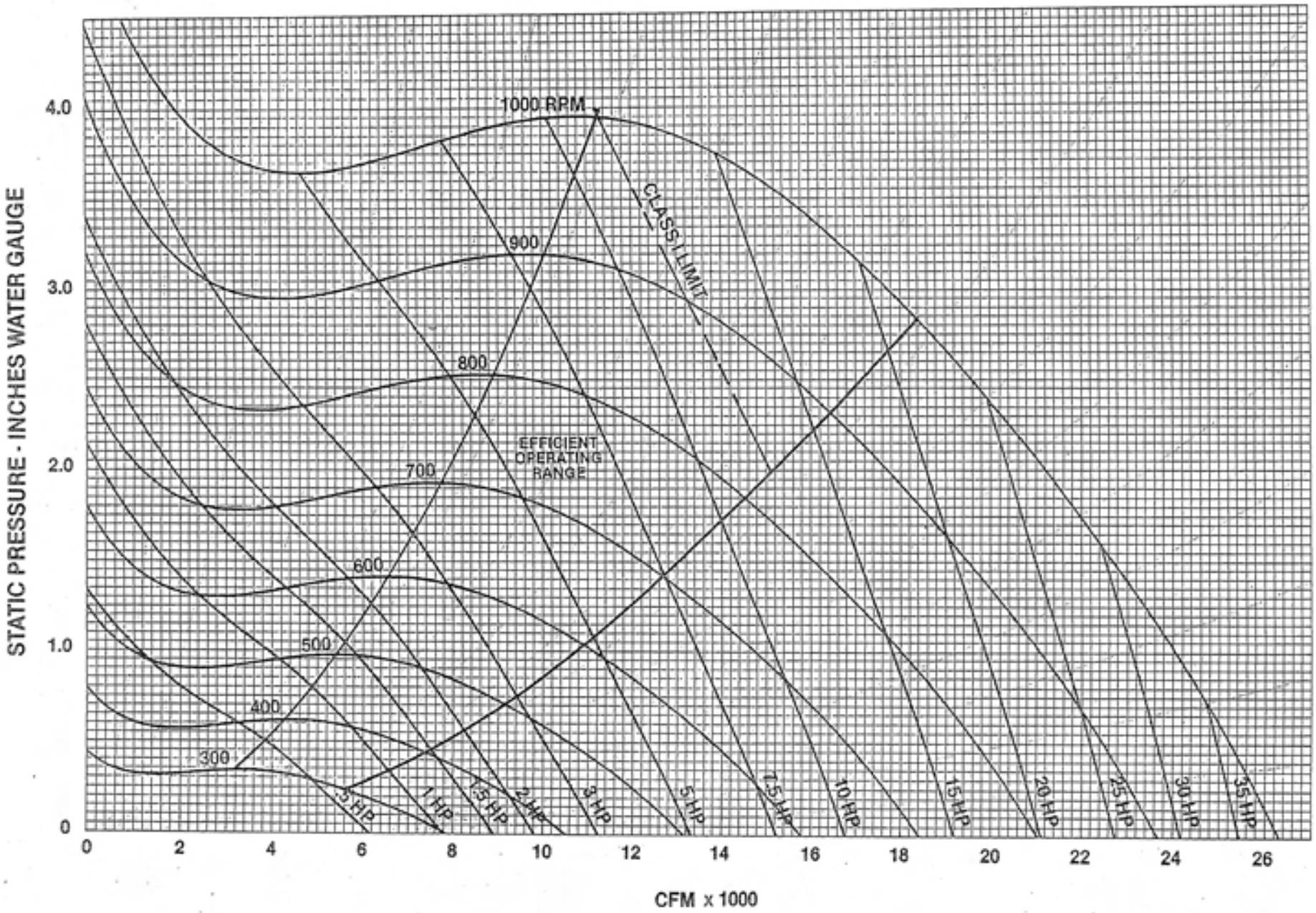
GRAPH NO.	L3772-1
DATE	11-1-82
WHEEL DIA.	20.0
WHEEL WIDTH	18.0
OUTLET AREA	3.88

Performance curves based on test made in accordance with ASHRAE 51-1985, AMCA 210-85. Tested without inlet duct and with discharge duct. Brake horsepower does not include drive losses. Standard Air Density 0.075 lb./cu. ft.

$$SE = \frac{CFM \times SP}{6362 \times BHP}$$

$$BHP = \frac{RPM \times (oz.\ ft.)}{84034}$$

SEE SPECIFICATION SHEET 307, 318, 319



MODEL A20-18H
CLASS I

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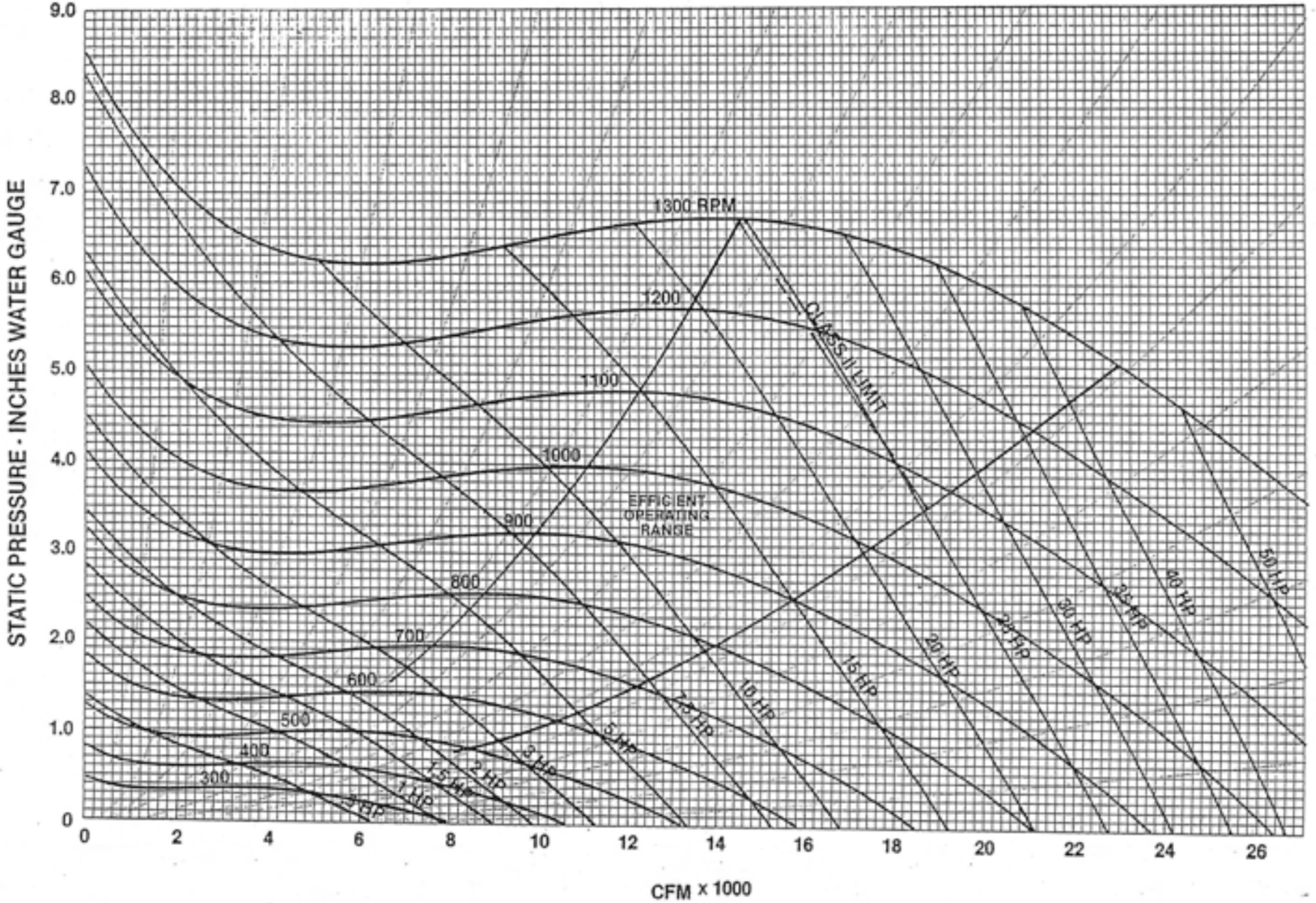
GRAPH NO.	G-4693-2
DATE	11-3-87
WHEEL DIA.	20.00
WHEEL WIDTH	18.00
OUTLET AREA (Square Feet)	3.88

Performance curves based on test made in accordance with ASHRAE 51-1985, AMCA 210-85. Tested without inlet duct and with discharge duct. Brake horsepower does not include drive losses. Standard Air Density 0.075 lb./cu. ft.

$$SE = \frac{CFM \times SP}{6362 \times BHP}$$

SEE SPECIFICATION DATA SHEET 304 FOR OPERATIONAL LIMITS.

MODEL A20-18H
CLASS II



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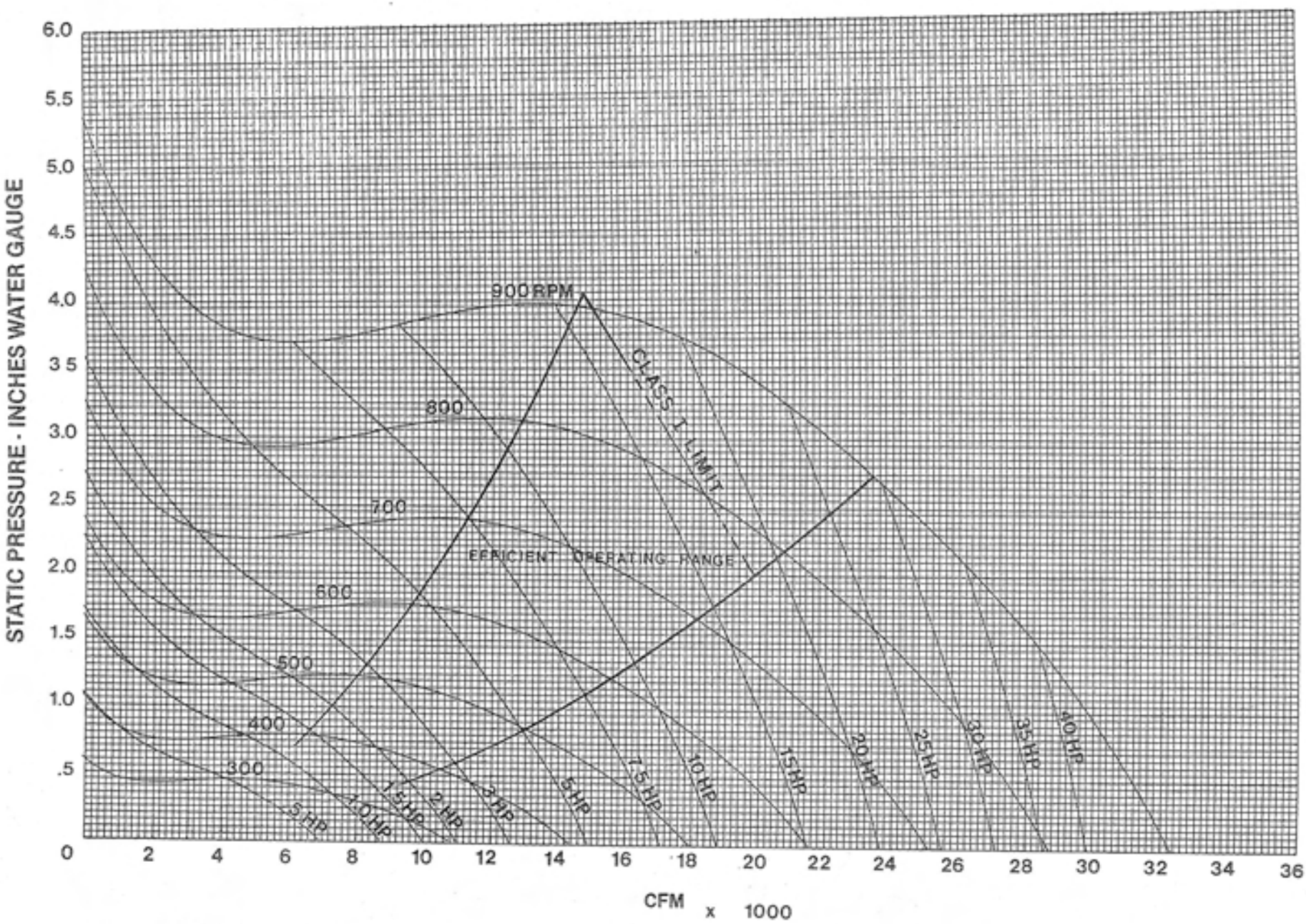
PHILIPS INDUSTRIES INC.

GRAPH NO.	C4693-2A
DATE	11-5-87
WHEEL DIA.	20.00
WHEEL WIDTH	18.00
OUTLET AREA (Square Feet)	3.88

Performance curves based on test made in accordance with ASHRAE 51-1985, AMCA 210-85. Tested without inlet duct and with discharge duct. Brake horsepower does not include drive losses. Standard Air Density 0.075 lb./cu. ft.

$$SE = \frac{CFM \times SP}{6362 \times BHP}$$

SEE SPECIFICATION DATA SHEET **304** FOR OPERATIONAL LIMITS.



MODEL A22-22H
CLASS I

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PHILIPS INDUSTRIES INC.

GRAPH NO.	G4582-4
DATE	5-26-87
WHEEL DIA.	22.38
WHEEL WIDTH	22.00
OUTLET AREA	5.1

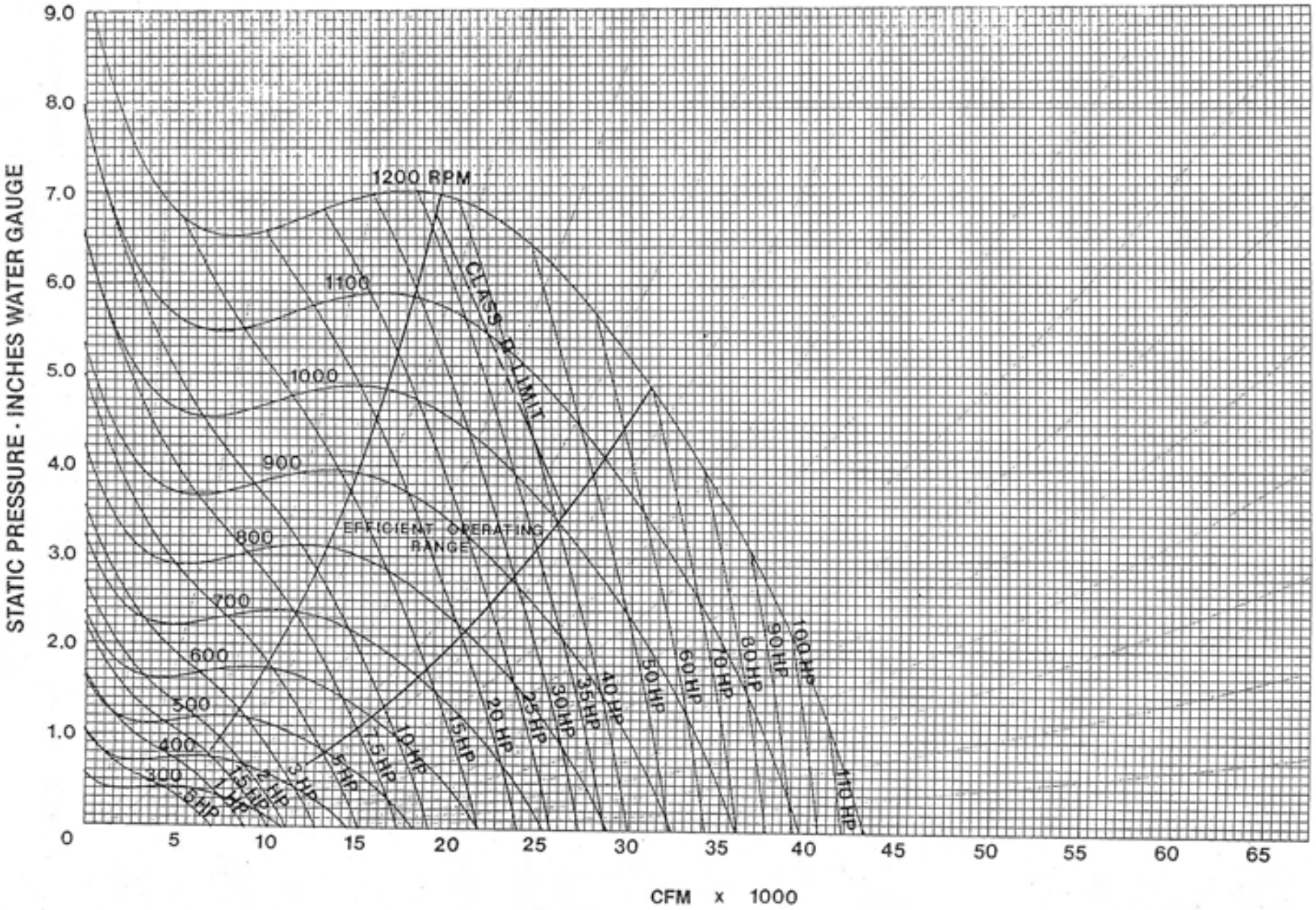
Performance curves based on test made in accordance with ASHRAE 51-1985, AMCA 210-85. Tested without inlet duct and with discharge duct. Brake horsepower does not include drive losses. Standard Air Density 0.075 lb./cu. ft.

$$SE = \frac{CFM \times SP}{6362 \times BHP}$$

$$BHP = \frac{RPM \times (oz.\ ft.)}{84034}$$

SEE SPECIFICATION DATA SHEET 204 FOR OPERATIONAL LIMITS.

MODEL A22-22H
CLASS II



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PHILIPS INDUSTRIES INC.

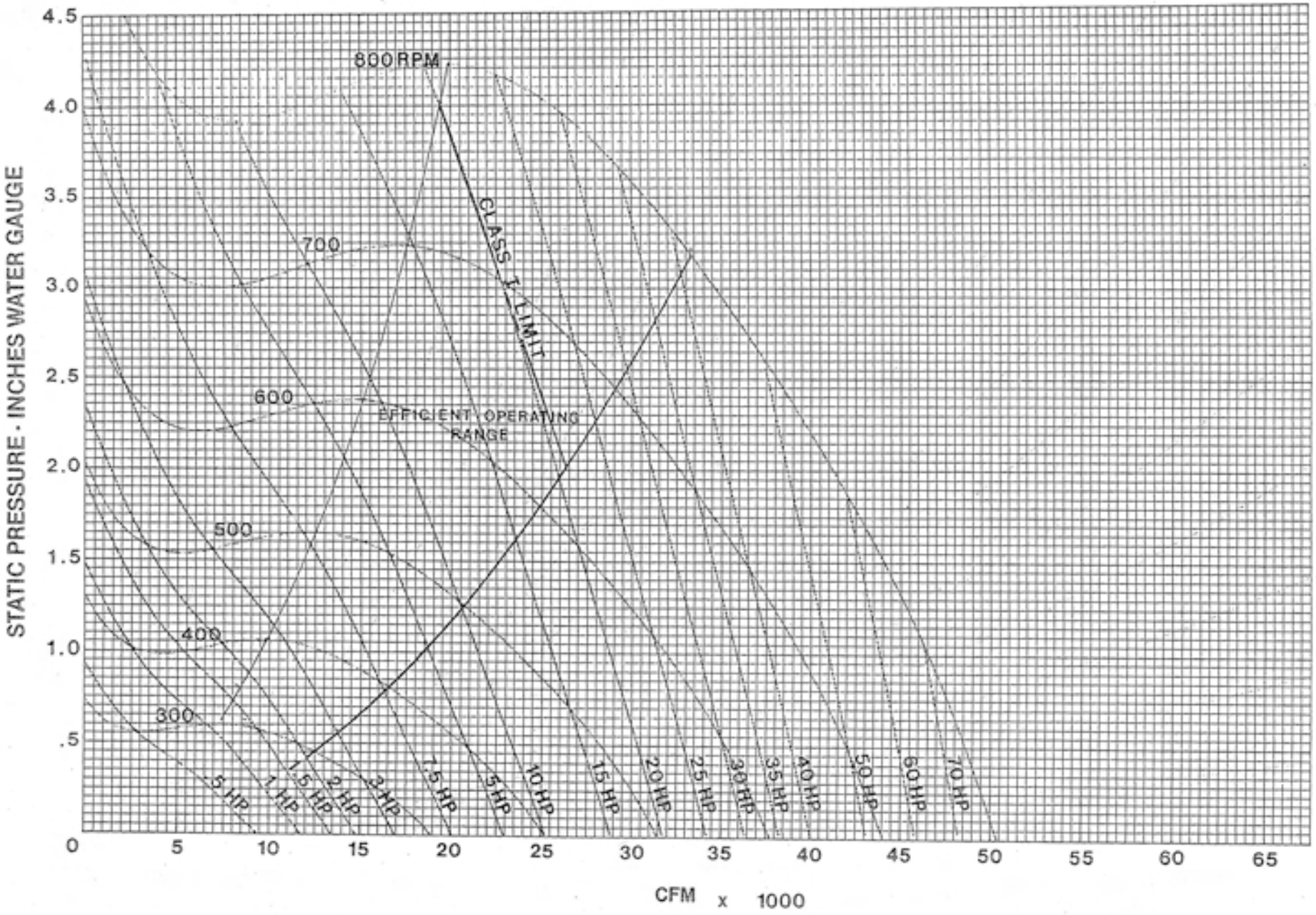
GRAPH NO.	G4582-4A
DATE	5-26-87
WHEEL DIA.	22.38
WHEEL WIDTH	22.00
OUTLET AREA	5.1

Performance curves based on test made in accordance with ASHRAE 51-1985, AMCA 210-85. Tested without inlet duct and with discharge duct. Brake horsepower does not include drive losses. Standard Air Density 0.075 lb./cu. ft.

$$SE = \frac{CFM \times SP}{6362 \times BHP}$$

$$BHP = \frac{RPM \times (oz.\ ft.)}{84034}$$

SEE SPECIFICATION DATA SHEET 304 FOR OPERATIONAL LIMITS.



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MODEL A25-25H
CLASS I

PHILIPS INDUSTRIES INC.

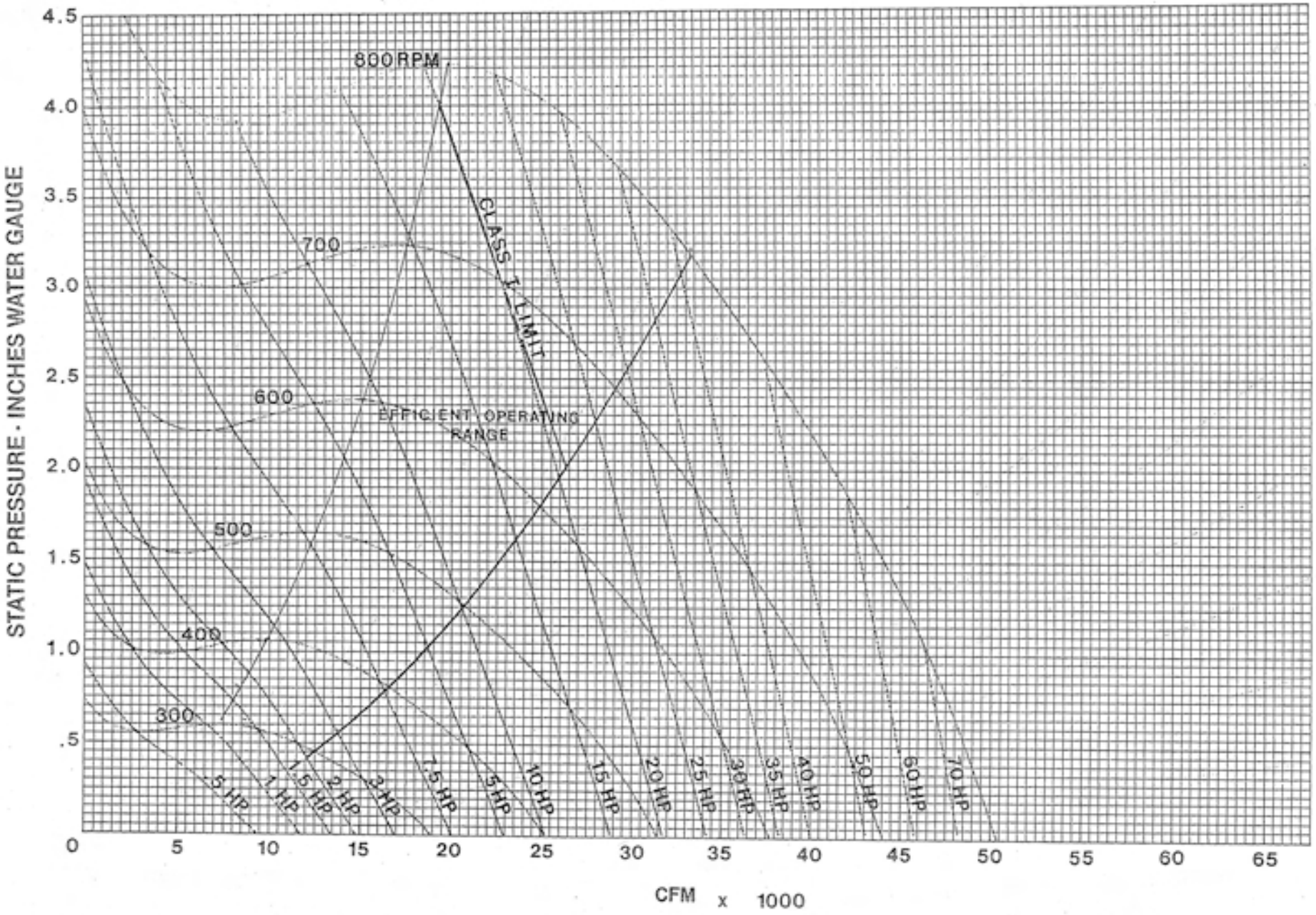
GRAPH NO.	G4581-1
DATE	5-27-87
WHEEL DIA.	25.0
WHEEL WIDTH	25.0
OUTLET AREA	6.71

Performance curves based on test made in accordance with ASHRAE 51-1985, AMCA 210-85. Tested without inlet duct and with discharge duct. Brake horsepower does not include drive losses. Standard Air Density 0.075 lb./cu. ft.

$$SE = \frac{CFM \times SP}{6362 \times BHP}$$

$$BHP = \frac{RPM \times (oz.\ ft.)}{84034}$$

SEE SPECIFICATION DATA SHEET 304 FOR OPERATIONAL LIMITS.



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MODEL A25-25H
CLASS I

PHILIPS INDUSTRIES INC.

GRAPH NO.	G4581-1
DATE	5-27-87
WHEEL DIA.	25.0
WHEEL WIDTH	25.0
OUTLET AREA	6.71

Performance curves based on test made in accordance with ASHRAE 51-1985, AMCA 210-85. Tested without inlet duct and with discharge duct. Brake horsepower does not include drive losses. Standard Air Density 0.075 lb./cu. ft.

$$SE = \frac{CFM \times SP}{6362 \times BHP}$$

$$BHP = \frac{RPM \times (oz.\ ft.)}{84034}$$

SEE SPECIFICATION DATA SHEET 304 FOR OPERATIONAL LIMITS.

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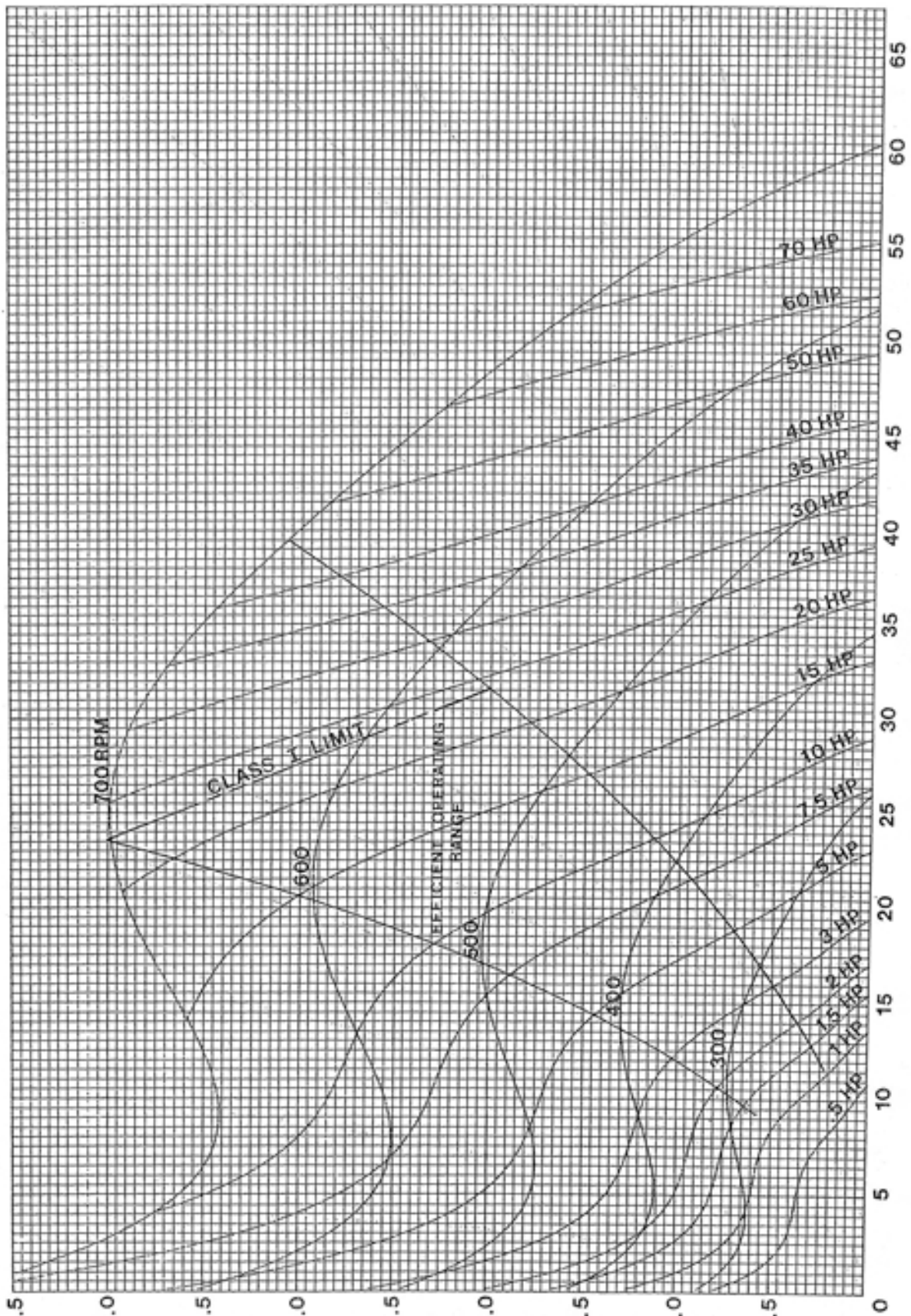
MODEL A27-27H
CLASS I



PHILIPS INDUSTRIES INC.

GRAPH NO.	G4580-3
DATE	5-28-87
WHEEL DIA.	27.6
WHEEL WIDTH	27.5
OUTLET AREA	8.07

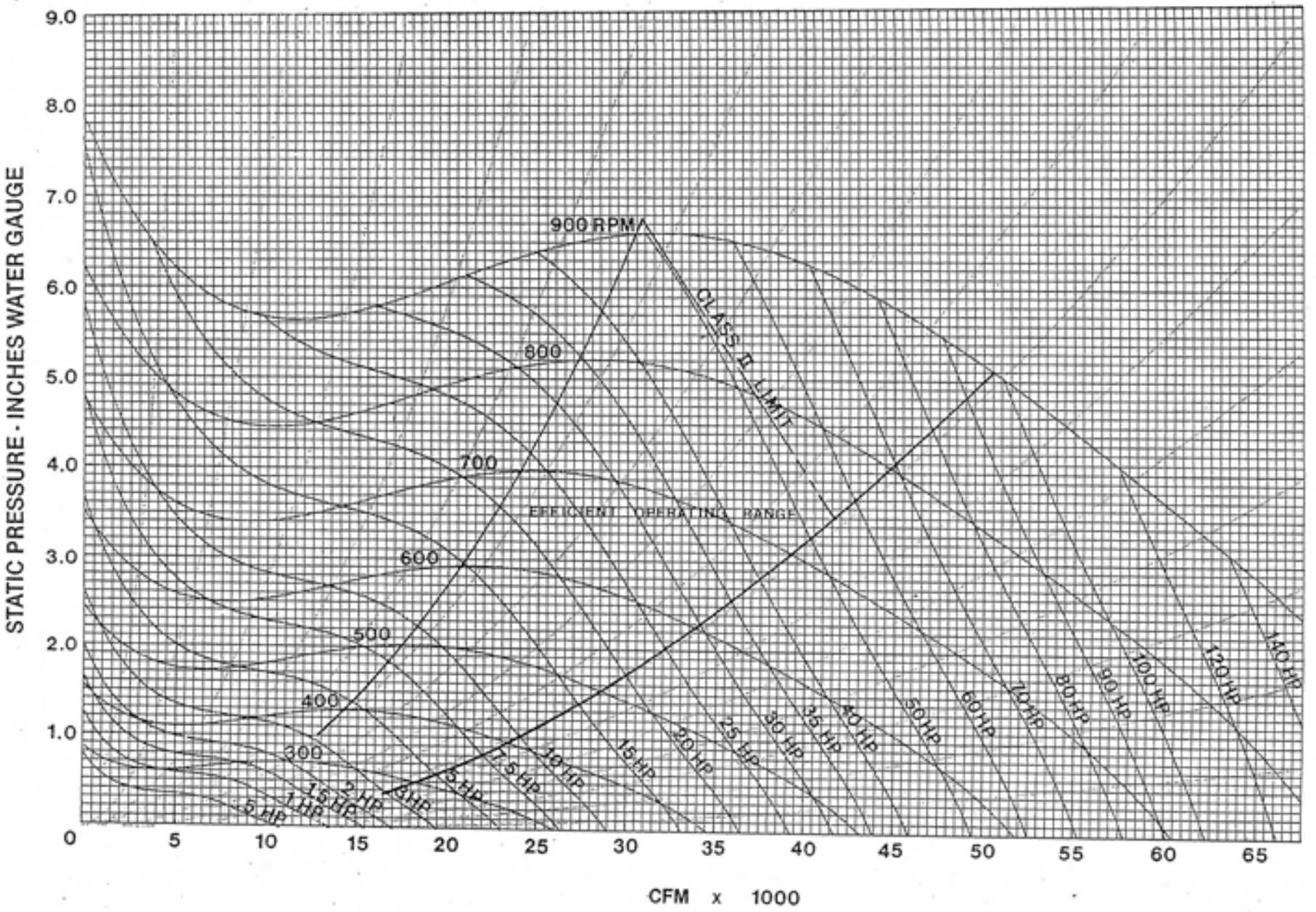
Performance curves based on test made in accordance with ASHRAE 51-1985, AMCA 210-85. Tested without inlet duct and with discharge duct. Brake horsepower does not include drive losses. Standard Air Density 0.075 lb./cu. ft.

$$SE = \frac{CFM \times SP}{6362 \times BHP}$$

$$BHP = \frac{RPM \times (oz.\ ft.)}{84034}$$

SEE SPECIFICATION DATA SHEET 304 FOR OPERATIONAL LIMITS.

MODEL A27-27H
CLASS II



PHILIPS INDUSTRIES INC.

GRAPH NO.	G4580-3A
DATE	5-28-87
WHEEL DIA.	27.6
WHEEL WIDTH	27.5
OUTLET AREA (Square Feet)	8.07

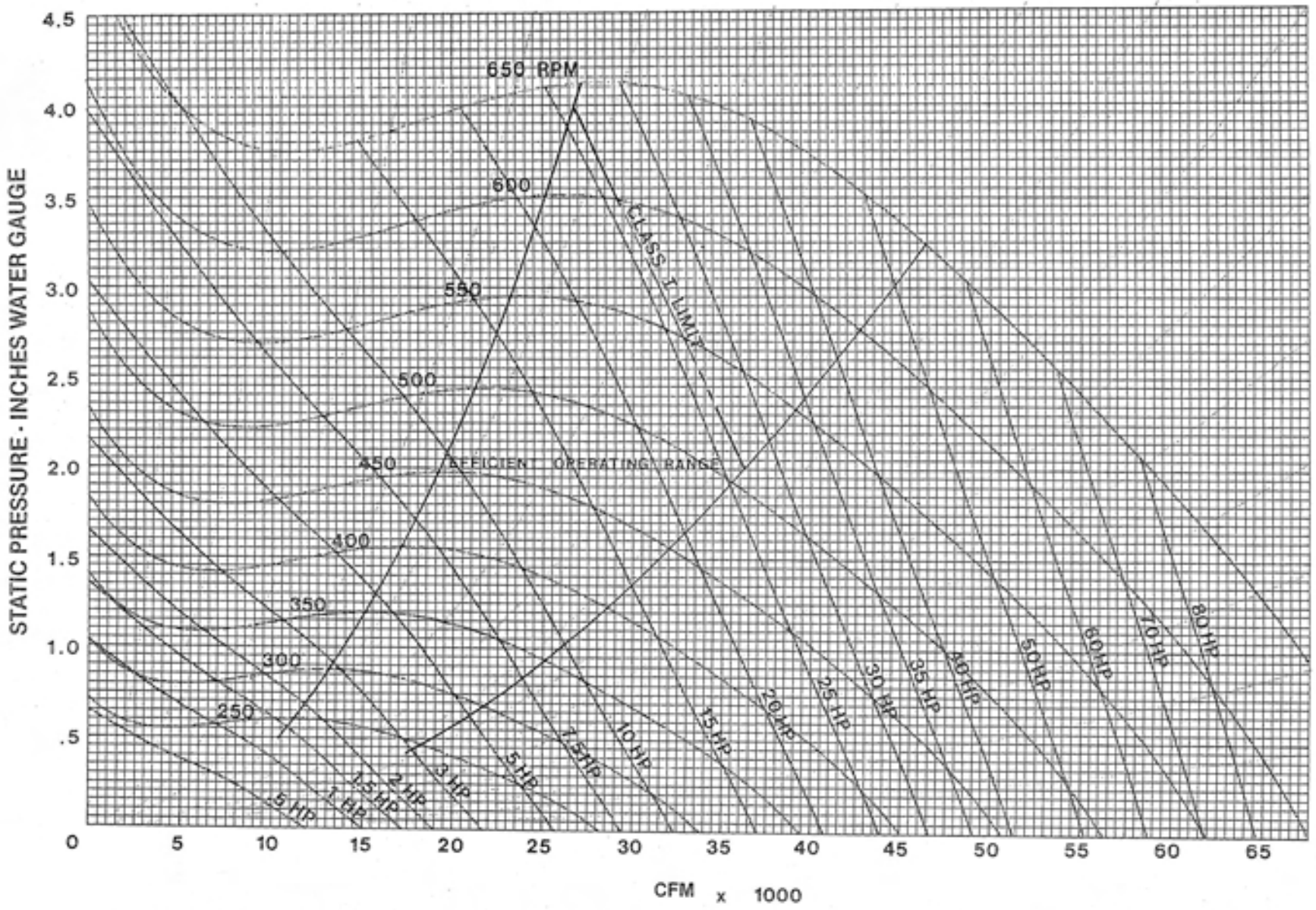
Performance curves based on test made in accordance with ASHRAE 51-1985, AMCA 210-85. Tested without inlet duct and with discharge duct. Brake horsepower does not include drive losses. Standard Air Density 0.075 lb./cu. ft.

$$SE = \frac{CFM \times SP}{6362 \times BHP}$$

$$BHP = \frac{RPM \times (oz.\ ft.)}{84034}$$

SEE SPECIFICATION DATA SHEET 304 FOR OPERATIONAL LIMITS.

X0 55-01



MODEL A30-30H
CLASS I

PHILIPS INDUSTRIES INC.

GRAPH NO.	G4579-4
DATE	5-29-87
WHEEL DIA.	30.25
WHEEL WIDTH	30.00
OUTLET AREA	9.30

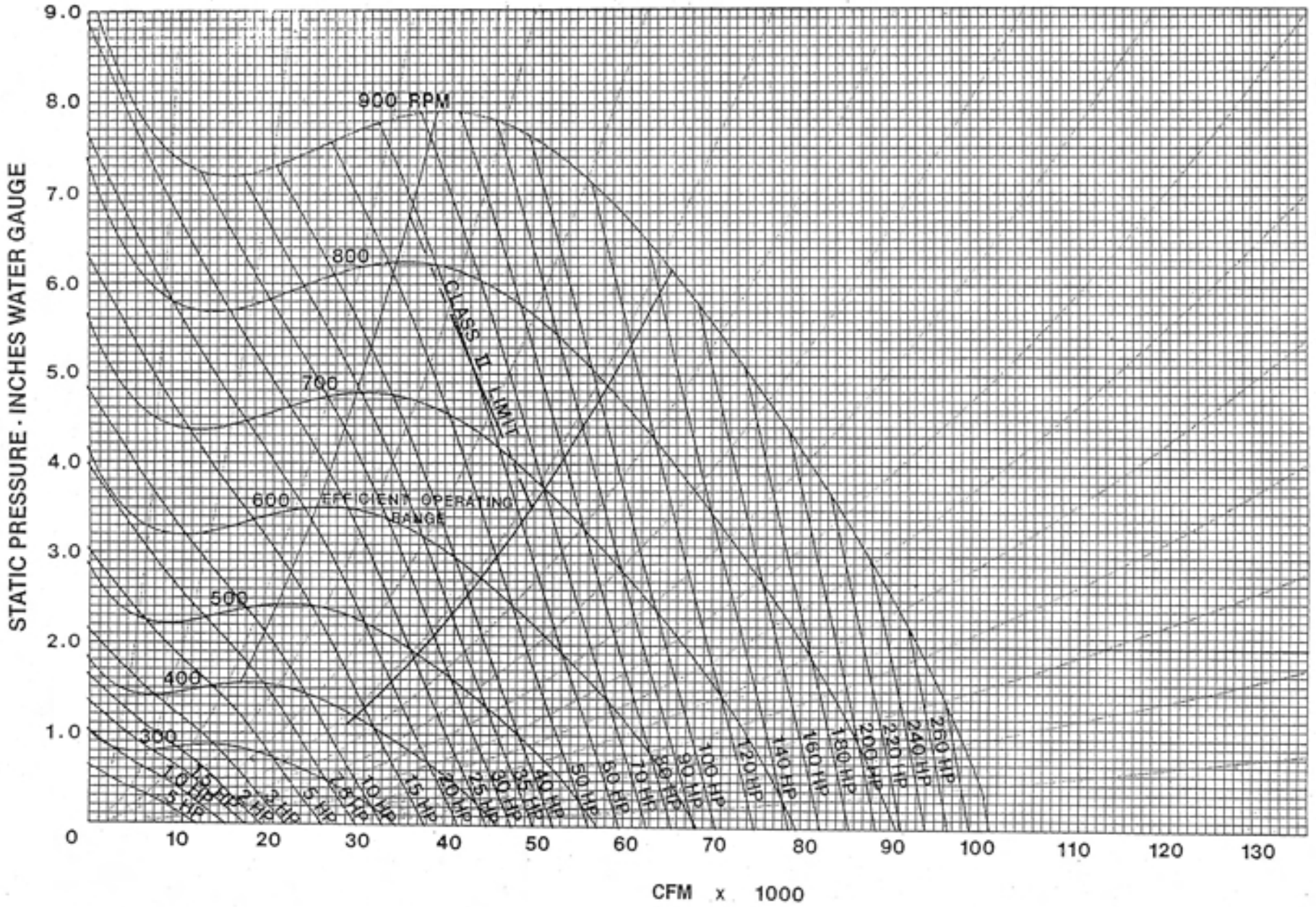
Performance curves based on test made in accordance with ASHRAE 51-1985, AMCA 210-85. Tested without inlet duct and with discharge duct. Brake horsepower does not include drive losses. Standard Air Density 0.075 lb./cu. ft.

$$SE = \frac{CFM \times SP}{6362 \times BHP}$$

$$BHP = \frac{RPM \times (oz.\ ft.)}{84034}$$

SEE SPECIFICATION DATA SHEET 304 FOR OPERATIONAL LIMITS.

MODEL A30-30H
CLASS II



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PHILIPS INDUSTRIES INC.

GRAPH NO.	G4579-4A
DATE	5-29-87
WHEEL DIA.	30.25
WHEEL WIDTH	30.00
OUTLET AREA (Square Feet)	9.30

Performance curves based on test made in accordance with ASHRAE 51-1985, AMCA 210-85. Tested without inlet duct and with discharge duct. Brake horsepower does not include drive losses. Standard Air Density 0.075 lb./cu. ft.

$$SE = \frac{CFM \times SP}{6362 \times BHP}$$

$$BHP = \frac{RPM \times (oz.\ ft.)}{84034}$$

SEE SPECIFICATION DATA SHEET 304 FOR OPERATIONAL LIMITS.