

“H” Series Twin Class II Blower

Product Specification Sheet Number: 331

Notes:

- Product weights may vary with bore size and hub style.
- STD type hubs available for most diameters.
- Clamplok style hubs are available for most diameters. (Ref. spec sheet #500)
- Clamplok type hubs for 2.25", 3.00", 4.00", 4.50" & 5.00 Tubular shafts
- See specification sheet #500 for available bore sizes.
- Wheel moment of inertia may vary with bore size and hub style.

$$\frac{wk^2}{32.2} = (\text{Lb} - \text{Ft} - \text{Sec}^2)$$

- Blast area:

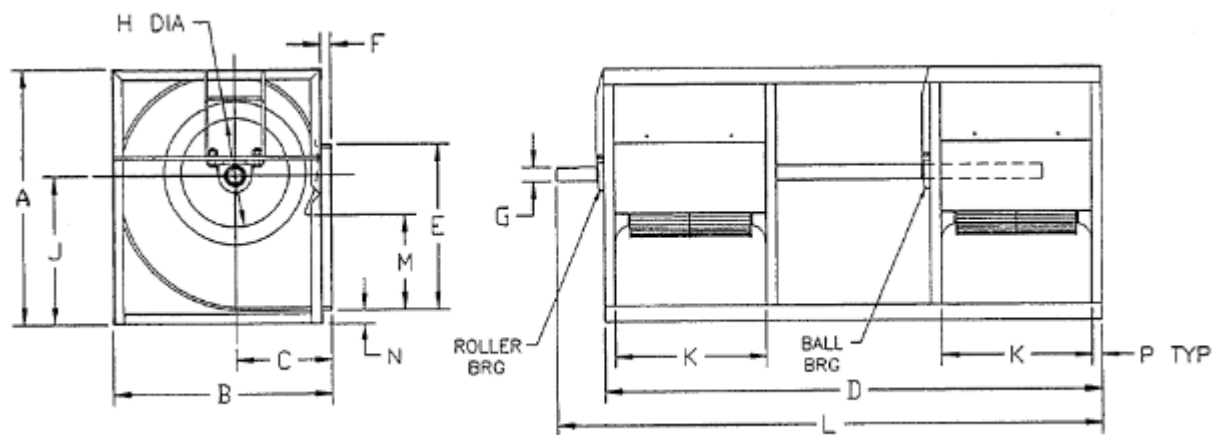
$$\text{BA} = \frac{\text{M}}{\text{E}} \times (\text{Outlet Area})$$

Dimensions shown are for reference only. For certified product dimensions contact Lau Engineering.

- Contact Lau for application assistance
- Outlet Velocity: $\text{FPM} = \frac{\text{CFM}}{\text{O.A.}}$

DIMENSIONS IN INCHES

Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P	O.A. Sq.Ft	Max RPM	Unit Weight	Brag. Rate
2A20-20H	38.25	32.88	14.44	72.50	24.75	1.50	1.94	16.25	22.65	24.75	80.38	15.00	2.12	1.50	6.50	1280	519	7891
2A22-22H	41.75	35.88	15.69	79.50	27.25	1.50	2.19	18.06	24.71	27.25	87.38	16.75	2.12	1.50	10.31	1170	616	9755
2A25-25H	47.00	40.00	17.25	90.50	31.25	1.50	2.19	21.31	27.78	31.25	99.69	19.50	2.12	1.50	13.56	1007	740	9755
2A27-27H	51.75	44.31	19.12	100.00	34.25	1.50	2.69	23.94	30.40	34.25	113.00	21.88	2.12	2.00	16.29	900	939	13995
2A30-27H	55.88	47.56	20.31	100.00	36.75	1.50	2.69	26.38	32.78	34.25	114.12	23.75	2.19	2.00	17.48	830	1071	13995
2A30-30H	55.88	47.56	20.31	107.50	36.75	1.50	2.69	26.38	32.78	36.75	121.62	23.75	2.19	2.00	18.76	830	1106	13995



"H" SERIES CLASS I & II FRAME BLOWER SELECTION:

There are a number of factors that need to be considered for specification of the proper "H" Series Class I & II Blower for your application. The following procedures outline the factors that need to be considered in the selection process.

PERFORMANCE:

Using the multispeed catalog or ELEMENT selection software performance curves for the "H" Series Blower, reduce the required CFM for the twin blower by half. Then using the static pressure of the application point select the diameter and width that provide the performance required. The operating speed (RPM) can be read directly from the performance curves, but the BHP must be doubled for the operation of the twin blower. The selection should be made within the efficient operating range shown on the curves. Also, note whether the performance falls within the class II limits shown on the curve. In no case should the point of operation exceed the maximum RPM shown in the dimensional tables for the blower selected. The brake horsepower read from the performance curve does not include drive losses. Losses due to drive selection should be added to the brake horsepower to determine the motor horsepower required. All selections should be verified by Lau Engineering.

BEARING LIFE:

The bearings provided on Lau "H" Series Blowers are self-aligning roller type pillow block with cast iron bearing housings. The anticipated bearing life can be estimated for a given blower model by first determining the load on the bearings. These loads are based on specific application criteria (i.e.: blower speed and horsepower). Other factors which have an impact on bearing load are blower component shaft weight, wheel weight, blower pulley weight, relative position of these components and the angle through which the estimated belt pull is acting on the drive bearing.

Using the appropriate equation and guidelines of the Anti-Friction Bearing Manufacturer's Association (A.F.B.M.A.) and the determined bearing loading an estimate of the bearing life (L_{10} or L_{50}) can be obtained.

TEMPERATURE:

The ambient temperature should not exceed 82°C (180°F). Contact Lau Engineering regarding operation at higher temperatures.

FEATURES:**BALANCE:**

Lau "H" Series Blowers are statically and dynamically balanced in accordance with 2011 ARI Guideline G and ANSI S2.19.

FINISH:

Standard finish for Lau's "H" Series Blowers is medium grey paint on wheels and housing and galvanized material on cutoffs. Contact Lau for availability of other finishes.

ADJUSTABLE MOTOR BASE:

See "Special Products and Accessories" of catalog for information on adjustable motor base.

ASSISTANCE:

Please feel free to contact Lau for assistance in selecting Twin "H" Series Blowers.