

The New York Blower Company
 Fan-to-Size
 Fan Selection Data

Project:	
Location:	
Contact:	

Fan Design

Product:	Backward Inclined Class IV SWSI	Arrangement:	1
Size/Model:	305	Drive type:	Belt
Wheel Type:	Acoustafoil	AMCA Performance Class:	4
Wheel Material:	Mild Steel		
Wheel Width:	100.0 %	Wheel Diameter:	100.0 %

Operating Conditions

Volume Flow Rate:	19,000 CFM	Fan Speed:	2350 rpm
Fan Static Pressure:	16.0 in wg	Fan Input Power:	59.8 bhp
Outlet Velocity:	3675 ft/min	VP/SP ratio:	0.0527
Altitude (above mean sea level):	0 ft	Operating Temperature:	70 Deg F
Operating Inlet Airstream Density:	0.0750 lb/ft3		
Static Efficiency:	79.96%	Mechanical Efficiency:	84.18%
Maximum Operating Temperature:	70 Deg F	Maximum Safe Operating Speed:	2610 rpm

Sound Power Level Ratings Levels expressed in dB (power levels reference 10⁻¹² watts)

Center Frequency (Hz):	63	125	250	500	1000	2000	4000	8000	
Octave Bands:	1	2	3	4	5	6	7	8	Overall
Total Fan Power Levels*:	111.5	107.9	109.	109.	100.9	97.5	93.5	87.9	115.8
Inlet Power Levels**:	108.5	104.9	106.	106.	97.9	94.5	90.5	84.9	112.8
Outlet Power Levels**:	108.5	104.9	106.	106.	97.9	94.5	90.5	84.9	112.8

*As corrected for point of operation (location on fan curve)

**Unsilenced Inlet and Outlet power ratings are 3 dB lower than total fan power levels under the assumption that "half" of the sound power can be attributed to each opening. Silenced power ratings include this 3 dB reduction as well as the silencer attenuation.

Estimated Sound Pressure Levels Expressed in dB (pressure levels reference 2x10⁻⁷ microbar)

Directivity/Reflection Factor (Q) is 1, spherical radiation; Distance is 3 ft.; A-weighting is in use.

The estimated sound pressure level outside the fan due to an open inlet OR outlet is 95.8 dBA at 3.0 feet. The estimated sound pressure level outside the fan when BOTH inlet and outlet are ducted is 85.8 dBA at 3.0 feet (Housing Radiated Noise).

Your Representative:

The New York Blower Company certifies that the Backward Inclined Class IV SWSI fan is licensed to bear the AMCA Air Performance Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings program.

AMCA Licensed for Air Performance without Appurtenances (Accessories). Power (bhp) excludes drives.

Performance certified is for installation type: B - free inlet, ducted outlet.

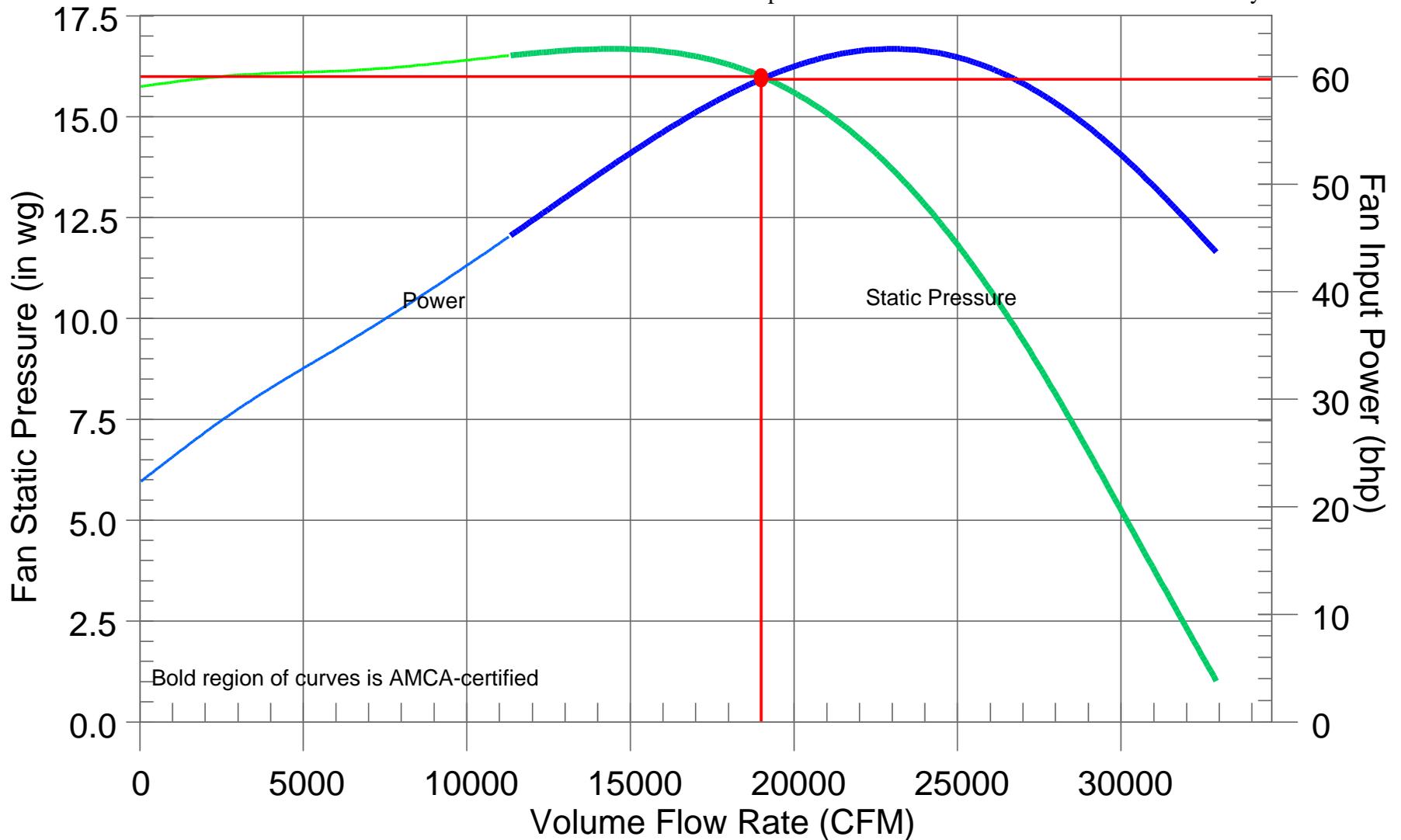
The New York Blower Company

Fan-to-Size

Backward Inclined Class IV SWSI
305 Acoustafoil
Class: 4; Arr.: 1

Volume Flow Rate: 19,000 CFM
Fan Static Press.: 16.0 in wg
Speed: 2350 rpm
Power: 59.8 bhp

Temp.: 70 Deg F
Altitude: 0 ft
Density: 0.0750 lb/ft³
Outlet Velocity: 3675 ft/min



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Performance certified is for installation type: B - free inlet, ducted outlet.

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Your Sales Representative:
[Rep Info not set]