

## BCSI Series



## SINGLE INLET CENTRIFUGAL FAN Backward Curve Industrial Type



GTG Industries Sdn Bhd certifies that the model: BCSI shown herein is licensed to bear the AMCA Seal.

The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.





## BCSI Series

- ◆ Backward curve non-overloading performance
- ◆ Range : 1120,1250, 1300, 1400, 1530, 1600, 1800
- ◆ Various orientations and mounting configurations available
- ◆ High efficiency

## Introduction

**BCSI** centrifugal fan with backward incline blade couple with single inlet housing provides large air volume at high static pressure with **non-overloading characteristic performance** i.e. the required power does not exceed a certain value regardless of the change of static pressure. With this **limit load** characteristics together with welded casing and drain hole, the BCSI is ideal choice for industrial application such as palm oil, boiler plant, factories, warehouses, plants etc.

### Fan Casing

- Material : Steel with 2 layers of anti corrosion paint
- Equipped with outlet and inlet flanges as standard for ease of duct connection

### Impeller

- Material : Steel
- Backward curve blade

### Other Features

- Drain hole come with plug for drainage purpose
- Access door
  - Easy access for cleaning and maintenance

## Conversion Table

- Air Flow

L/s	m <sup>3</sup> /hr	m <sup>3</sup> /s	CFM
1	3.6	0.001	2.119
0.278	1	0.278 x 10 <sup>-3</sup>	0.588
1000	3600	1	2119
0.063	0.227	0.063 x 10 <sup>-3</sup>	0.1337
0.472	1.7	0.472 x 10 <sup>-3</sup>	1

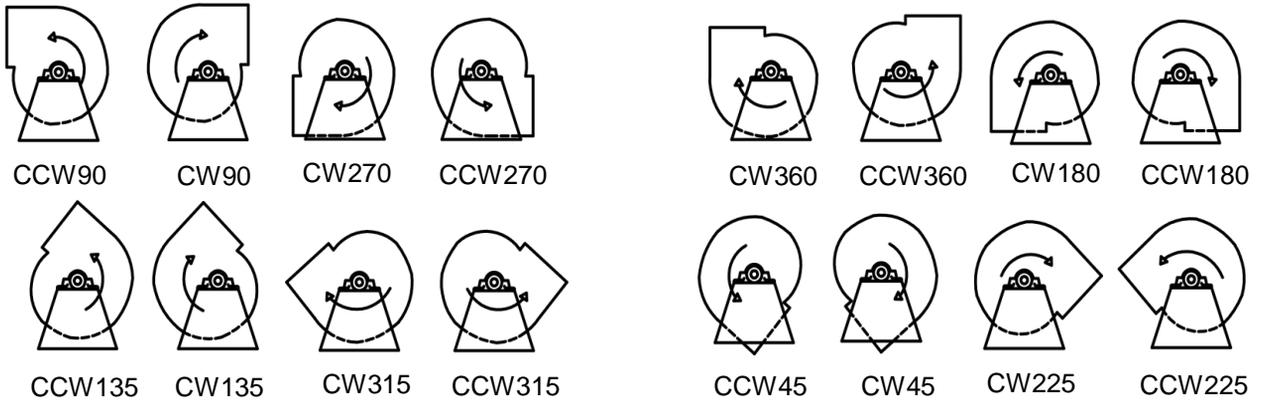
- Static Pressure

Pa	mm wg	in. wg	in. Hg
1	0.102	4.014 x 10 <sup>-3</sup>	2.953 x 10 <sup>-4</sup>
9.806	1	0.039	2.896 x 10 <sup>-3</sup>
249.088	25.4	1	0.074
3386.4	345.3	13.6	1

# Direction of Rotation and Discharge

This is accordance with AMCA Standard 99-2406-03

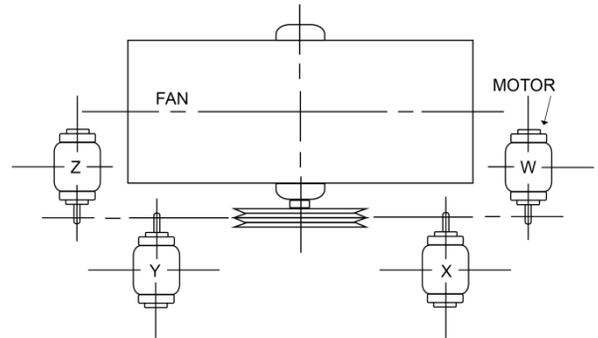
Direction of rotation is determined from the drive side. On single inlet fans, drive side is considered as opposite inlet, regardless of actual drive location.



## Standard Motor Positions

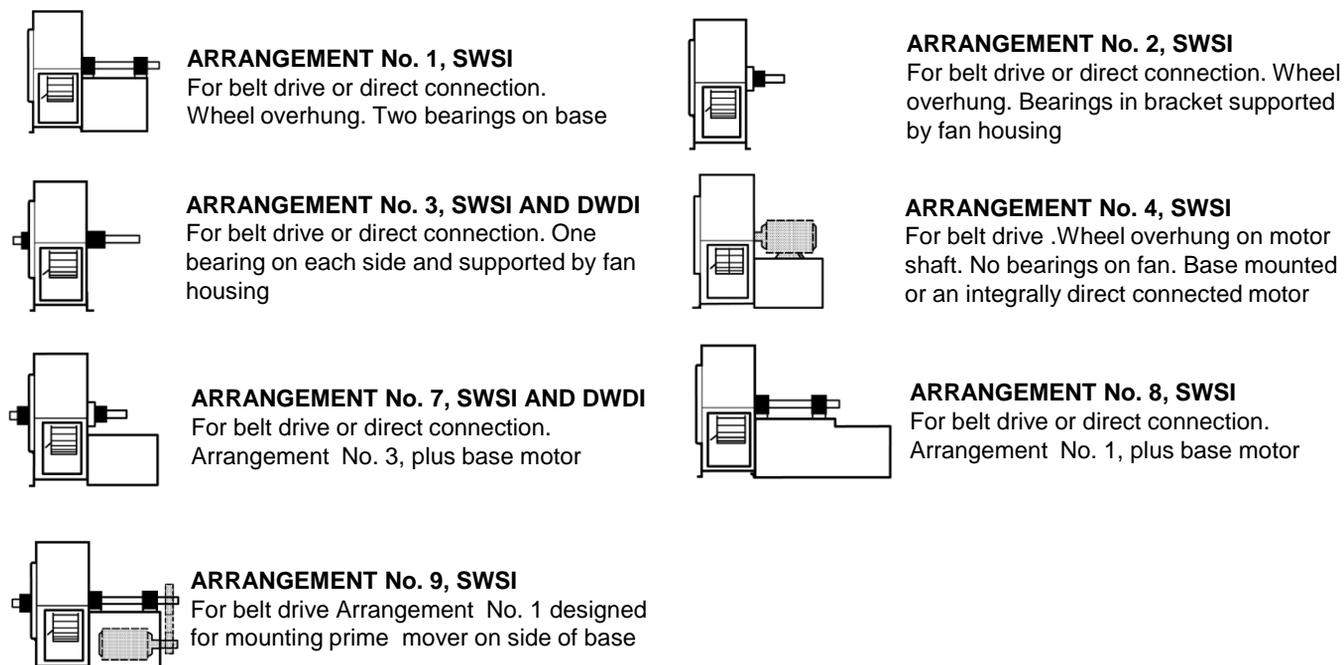
This is accordance with AMCA Standard 99-2407-03

The location of motor is determined from plan view of the blower, designating the motor position by letters W, X, Y and Z as the case may be.



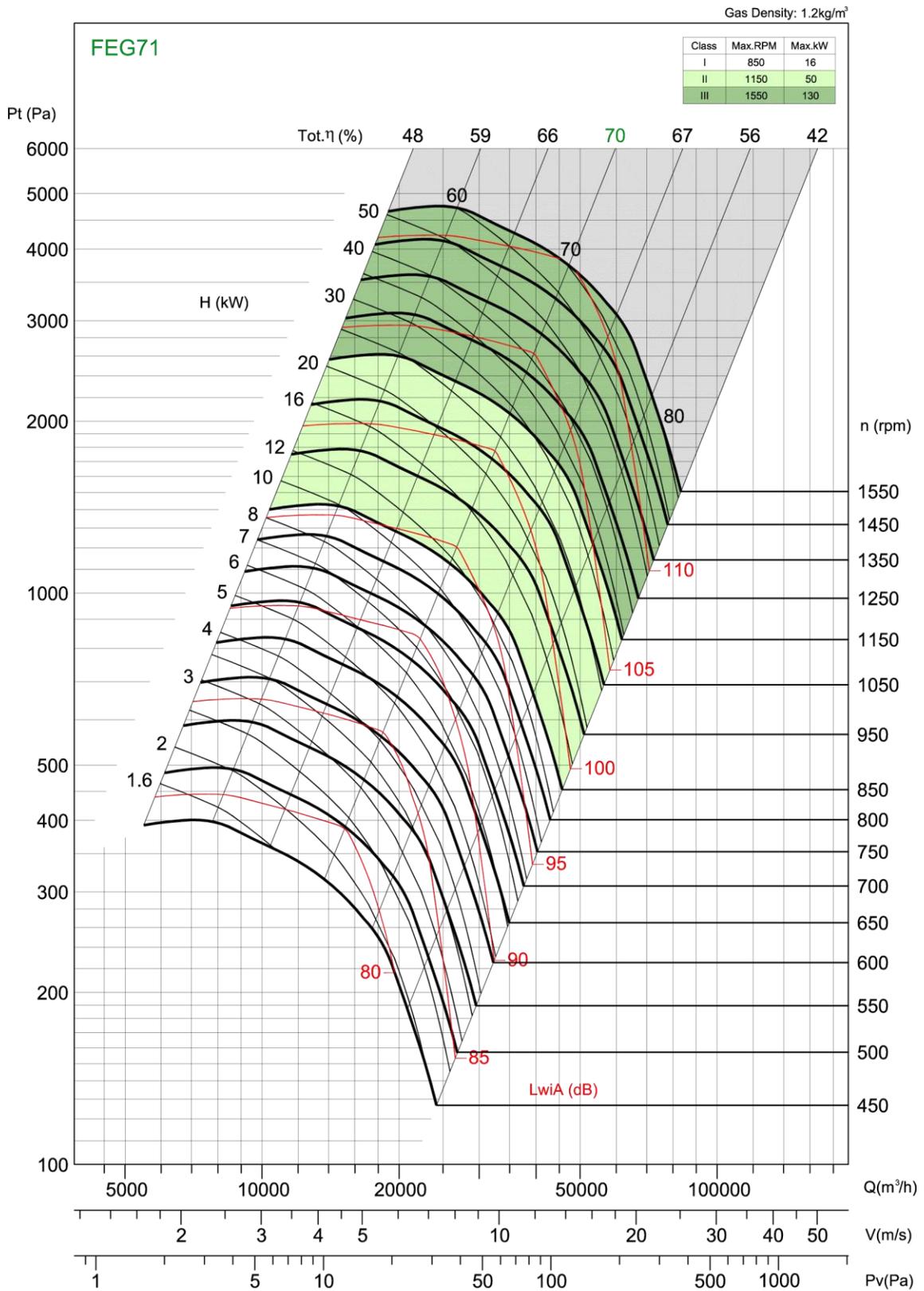
## Arrangements of Drive

This is accordance with AMCA Standard 99-2404-03



# Performance Curve

## BCSI 1120

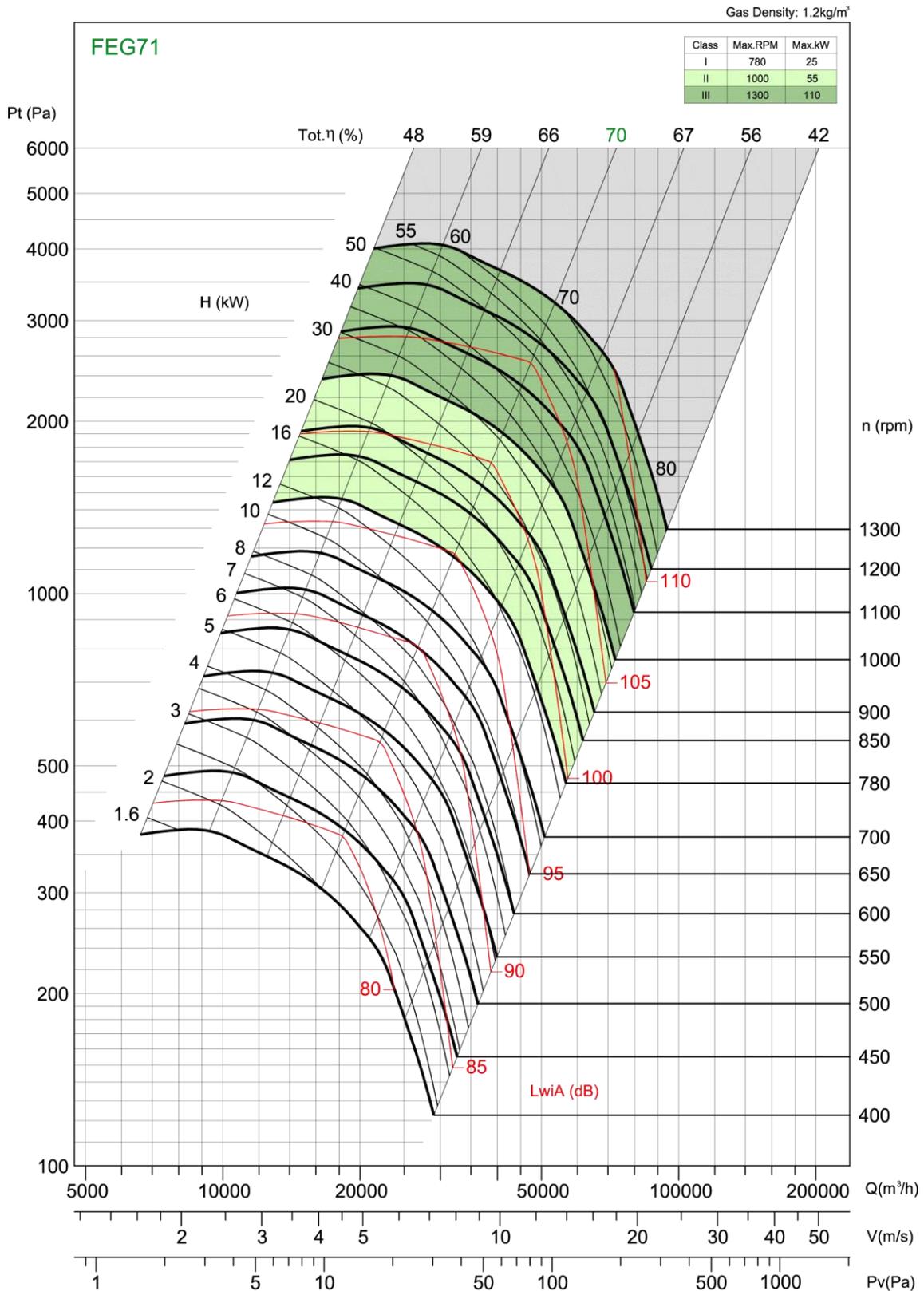


Performance certified is for installation type B - Free inlet, Ducted outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwiA sound power levels for installation Type B: free inlet, ducted outlet.



# Performance Curve

## BCSI 1250

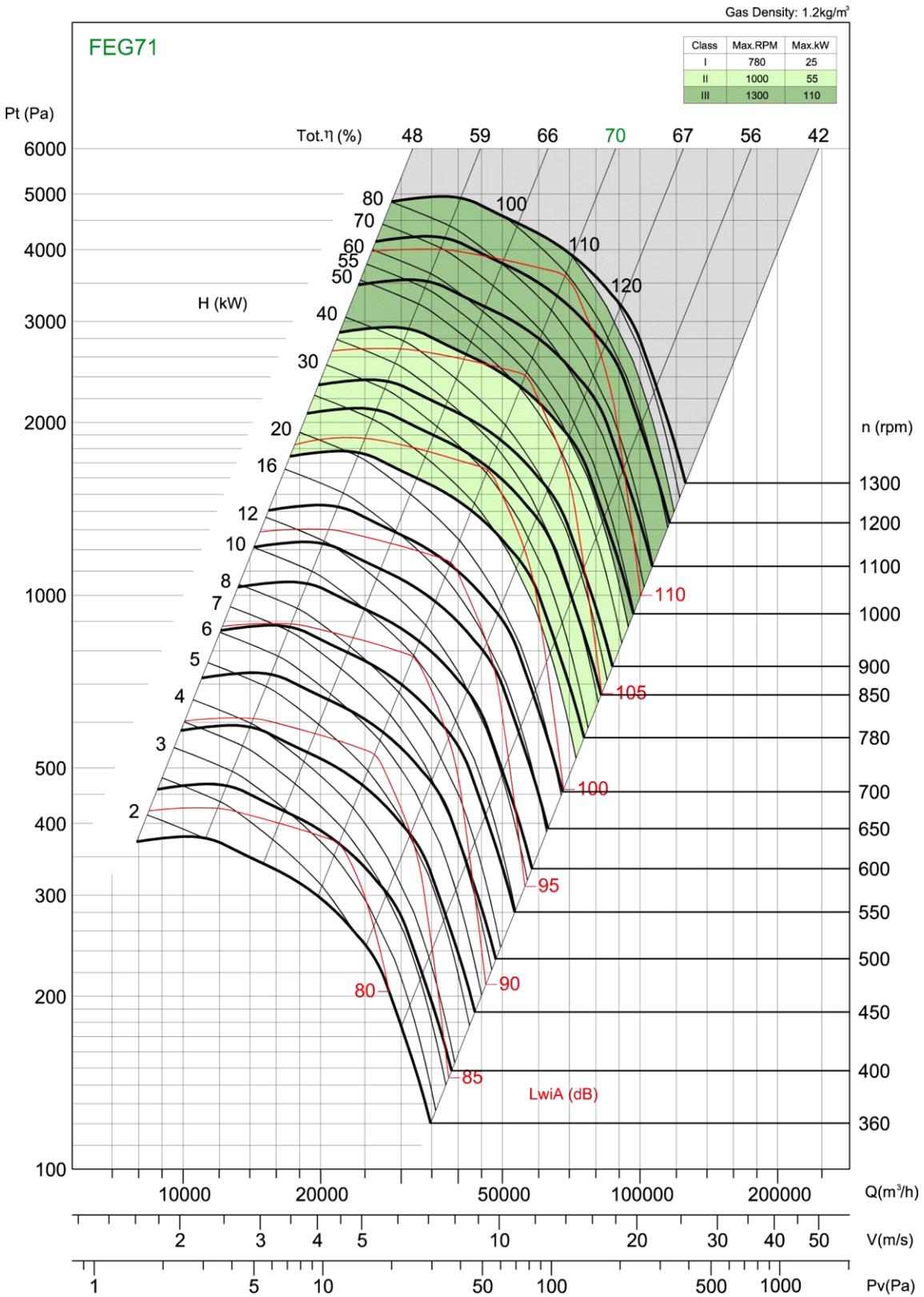


Performance certified is for installation type B - Free inlet, Ducted outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwiA sound power levels for installation Type B: free inlet, ducted outlet.



# Performance Curve

## BCSI 1300

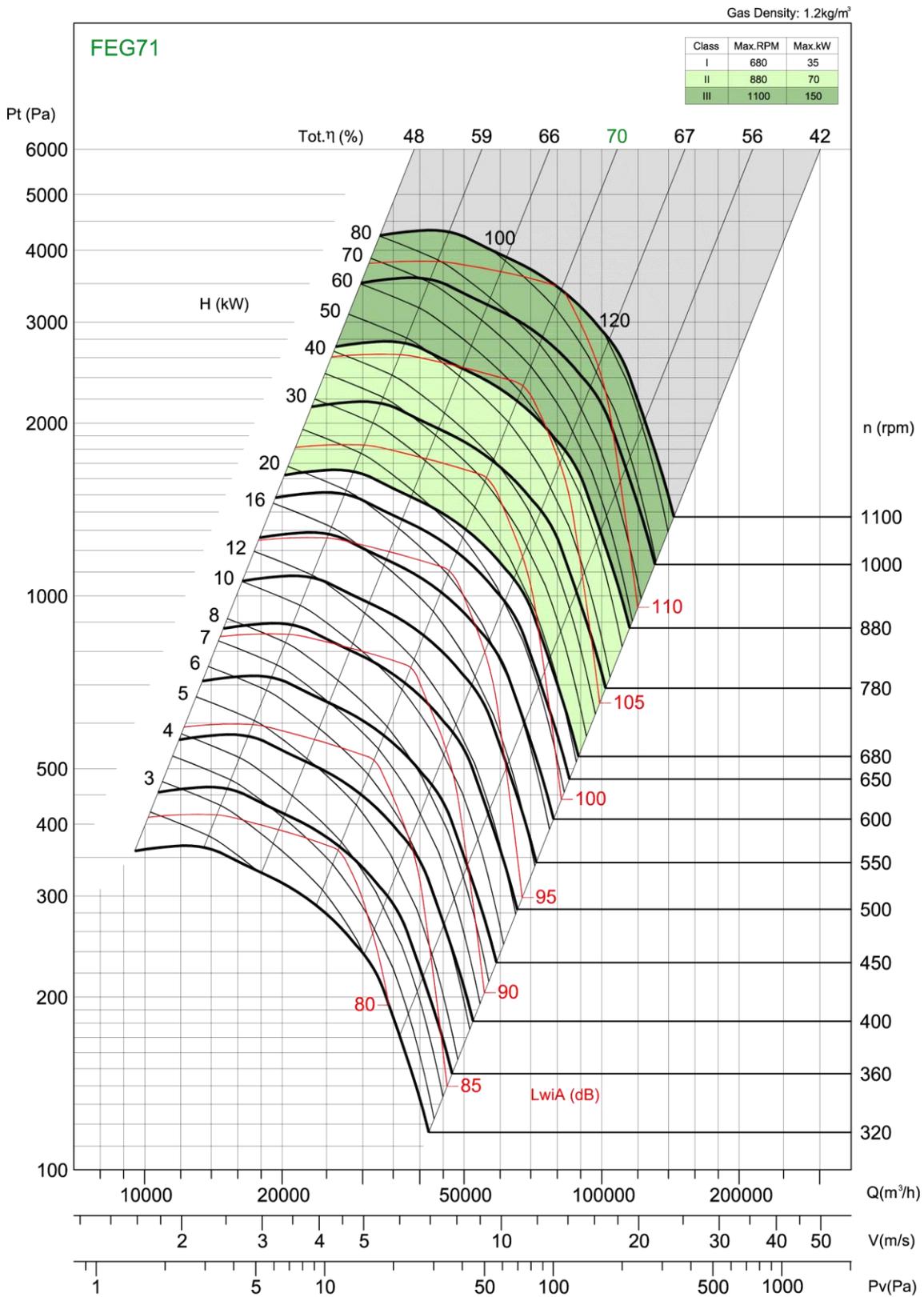


Performance certified is for installation type B - Free inlet, Ducted outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwiA sound power levels for installation Type B: free inlet, ducted outlet.



# Performance Curve

## BCSI 1400

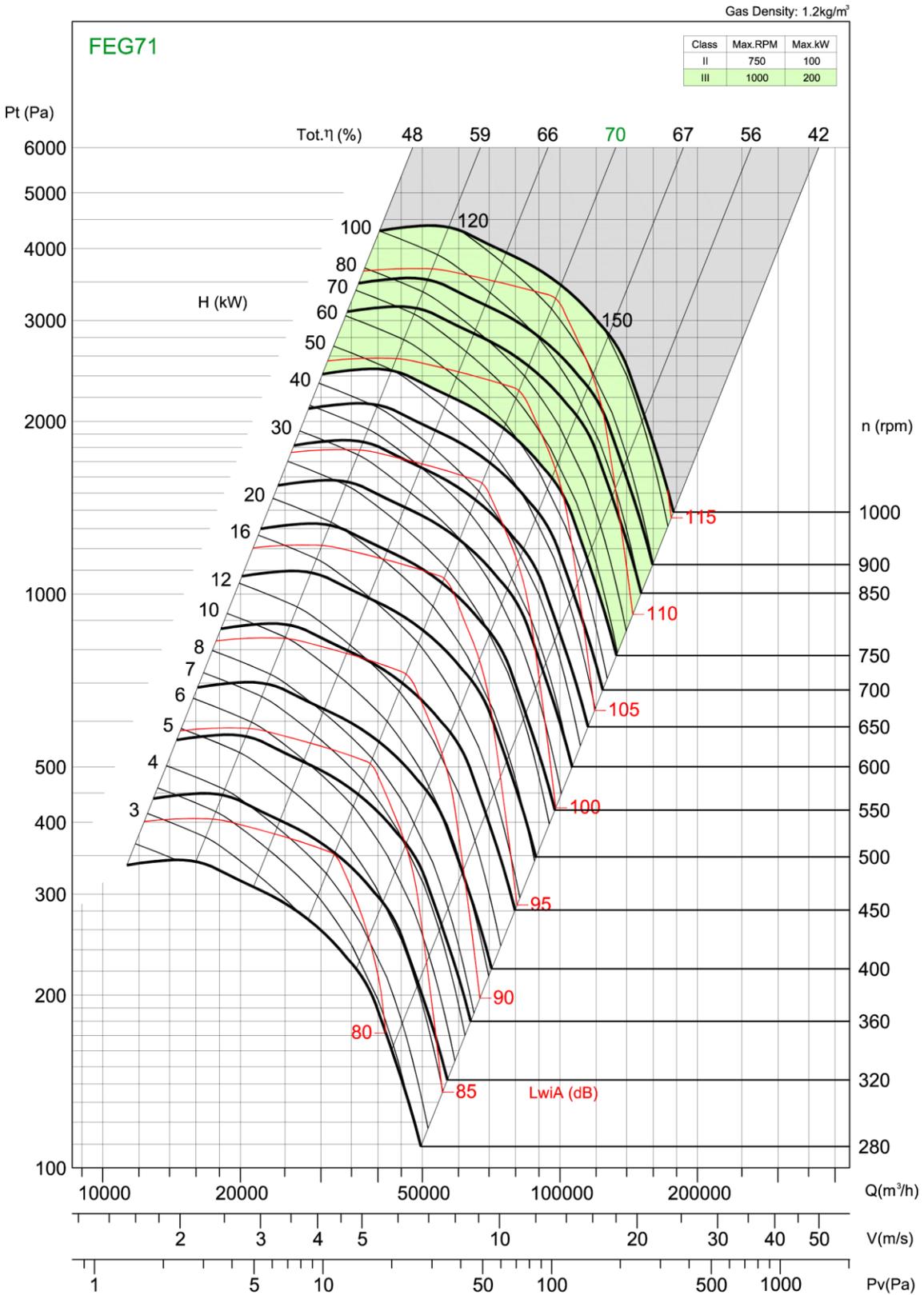


Performance certified is for installation type B - Free inlet, Ducted outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwiA sound power levels for installation Type B: free inlet, ducted outlet.



# Performance Curve

## BCSI 1530

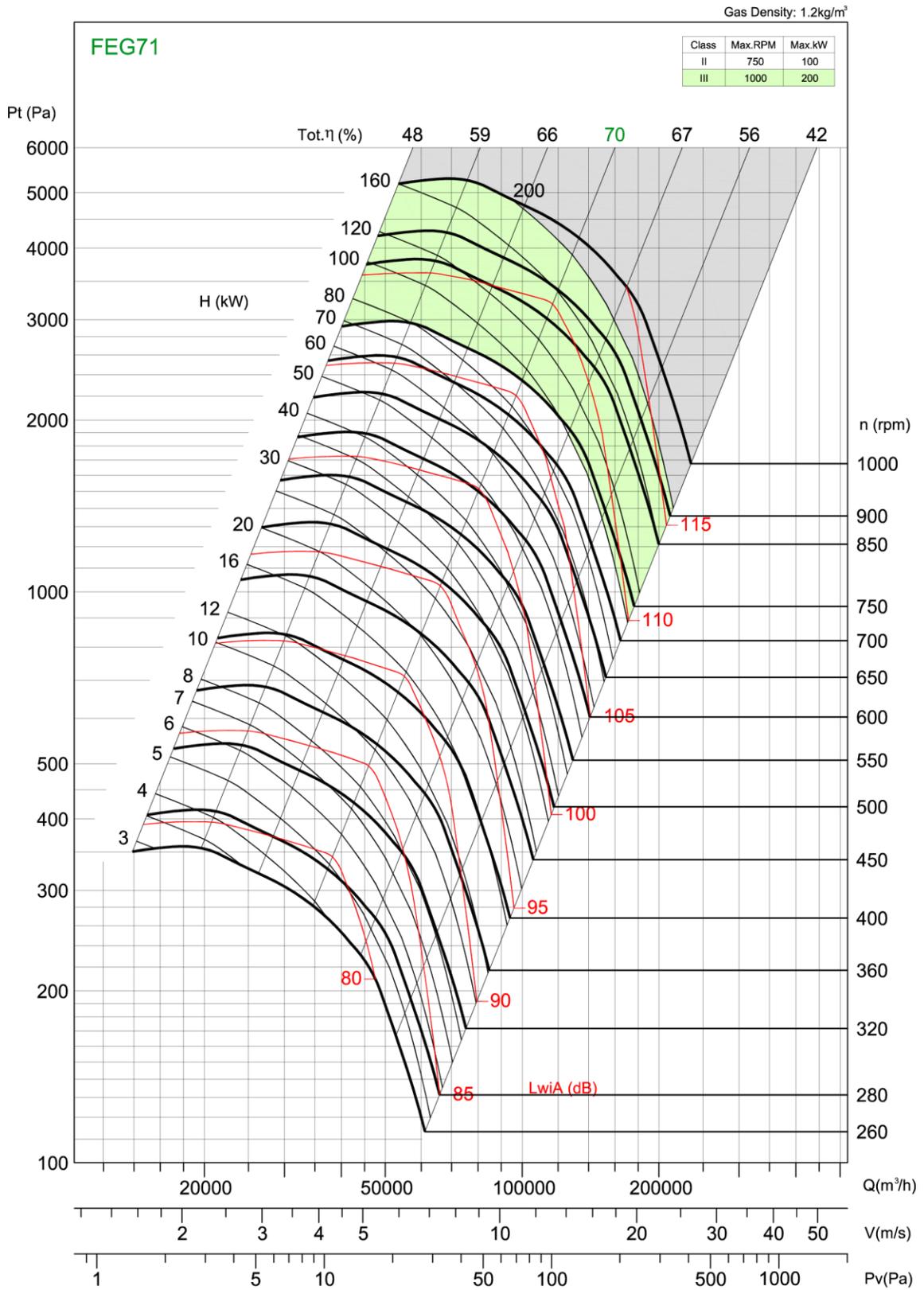


Performance certified is for installation type B - Free inlet, Ducted outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwiA sound power levels for installation Type B: free inlet, ducted outlet.



# Performance Curve

## BCSI 1600

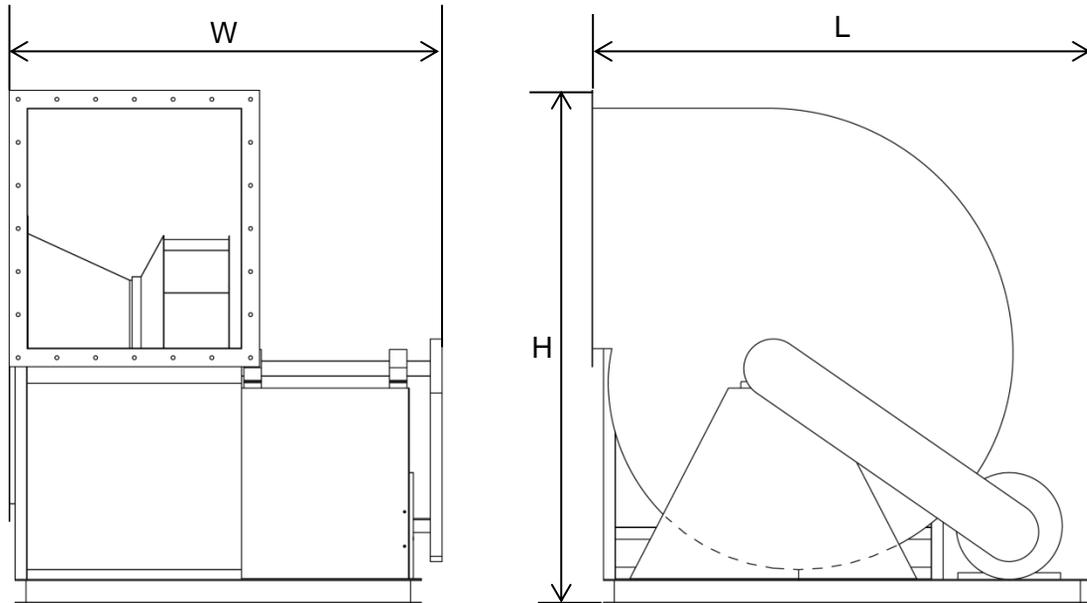


Performance certified is for installation type B - Free inlet, Ducted outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwiA sound power levels for installation Type B: free inlet, ducted outlet.





## Dimension (mm)



BCSi - CCW90			
Model	L	H	W
BCSi 1120	1962	2123	1820
BCSi 1250	2108	2415	1979
BCSi 1300	2245	2629	2130
BCSi 1400	2426	2880	2309
BCSi 1530	2610	3155	2543
BCSi 1600	2873	3444	2712
BCSi 1800	3070	3777	2889

- The actual dimension is subject to changes without prior notice, kindly refer to GTG Technical Submittal for further details
- Other arrangements / configuration are available. Please contact your local GTG Office

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