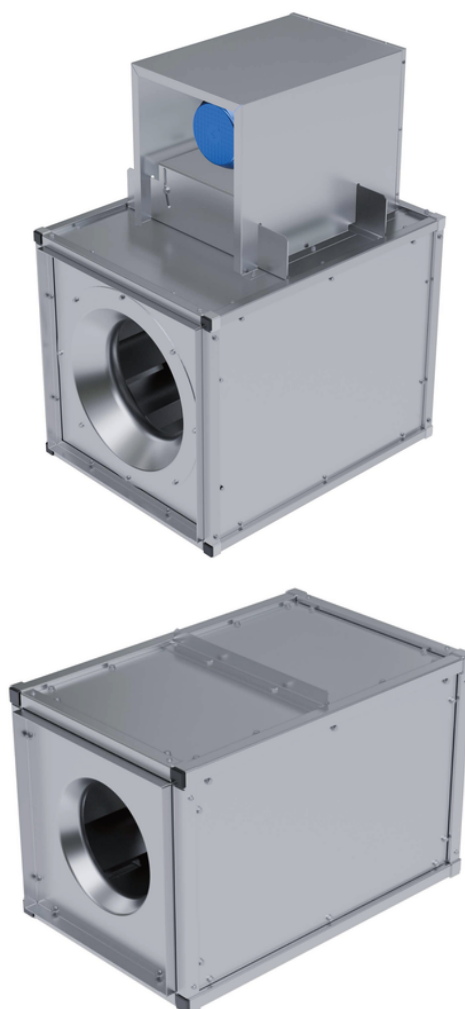


*We Care for Your Needs*

## SQUARE INLINE FANS

SQ Series



## TABLE OF CONTENTS

|                                          |              |
|------------------------------------------|--------------|
| <b>GENERAL INFORMATION</b> .....         | <b>03</b>    |
| <b>CONSTRUCTION FEATURES</b> .....       | <b>04</b>    |
| <b>OPTIONS &amp; ACCESSORIES</b> .....   | <b>05-06</b> |
| <b>DIRECT DRIVE FAN DATA</b> .....       | <b>07-10</b> |
| <b>BELT DRIVE FAN DATA</b> .....         | <b>11-30</b> |
| <b>FILTER BOX DIMENSIONAL DATA</b> ..... | <b>31</b>    |
| <b>TYPICAL SPECIFICATION</b> .....       | <b>32</b>    |

# SQUARE INLINE FANS

SQxxD / SQxxB

## OVERVIEW

Energy Twin City Fan's Model SQ direct drive and belt driven square inline fans are specifically designed for duct applications handling relatively clean air, including supply, exhaust and return air systems. These fans offer high efficiency and quiet operation in a compact design that can be mounted in any position (horizontal, vertical or angular). Square inline centrifugal units feature high efficient, nonoverloading, backward inclined centrifugal impellers precisely matched to a spun venture. All impellers are statically and dynamically balanced. Units are manufactured under strict quality assurance standards to insure cataloged performance and years of maintenance free operation.

## TYPICAL APPLICATIONS INCLUDE

General HVAC, indoor and outdoor application (exhaust, filtration, return and supply air of commercial buildings), Air Pollution Control, Airport Exhaust, Automotive, Fertilizer, Food & Beverage, Laboratory Exhaust, Metal & Mineral Processing, Office Exhaust, Restroom Exhaust, Warehouse Exhaust and Water Treatment

## CONFIGURATIONS

Direct Drive and Belt Driven Configurations

### SQxxD (Direct Drive)

Available in 4 sizes, 10" to 15.0" impellers diameters

### SQxxB (Belt Driven)

Available in 8 sizes, 10.0" to 27" impellers diameters

## OPTIONAL CONSTRUCTION

Spark Resistant Construction (Type B and C, ATEX), Easy Access Construction

## IMPELLER TYPES

Backward Inclined/Curved Centrifugal, Spark Resistant Aluminum Impellers

## EASY MAINTENANCE ACCESS

The units can be easily serviced through the side access panels without removing duct connections.

## MOTOR SELECTION

Both direct drive and belt driven models are available with a wide range of voltages and enclosures. Standard belt drive TEFC selected using a conservative portion of the IEC/NEMA service factor. Standard direct drive TEFC or TEAO motors have Class B/F insulation and internal thermal overload protection. Each size is carefully engineered to match the motor to the impeller capacity.

## CERTIFICATIONS

AMCA Sound & Air Performance ,IECEx CSAE 26.0030X, ATEX , CE (IEC60335) EMC, & RoHS



Energy Industrial Company certifies that the models SQ10D,SQ12D,SQ13D,SQ15D,SQ10B, SQ12B, SQ13B, SQ15B, SQ16B, SQ20B, SQ22B and SQ27B shown herein are 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 their requirements of the AMCA Certified Ratings Program.



SQ models are UL 705 listed , File No. E533432.



IECEx CSAE 26.0030X for use in potentially explosive atmospheres, subject to the equipment classification and limitations stated in the certificate.



### ATEX

Expertise and Risk Assessment Directive" is not the formal title of the ATEX Directive. Replace it with the exact title and scope shown on the approved certificate or Declaration of Conformity



### Low Voltage Directive

IEC 60335-2-80:2015 in conjunction with IEC 60335-1:2010, COR1:2010, COR2:2011,AMD1:2013, AMD2:2016.

### EMC Directive

EN 55014-1: 2017+A11: 2020; EN IEC 61000-3-2:2019;EN 61000-3-3: 2013+A1:2019; EN 55014-2: 2015(IEC 61000-4-2; IEC 61000-4-4; IEC 61000-4-5; IEC 61000-4-6; IEC 61000-4-11).



### RoHS Directive

Restriction of Hazardous substances in Electrical and Electronic Equipments.

# CONSTRUCTION FEATURES

SQ- INLINE FAN SERIES

## HOUSINGS

Housing assembly features heavy-gauge galvanized steel construction. Removable side panels provide easy access for service and maintenance without the need to remove duct connections. Complete removal of the power assembly is also possible through side access panels. Side panels can provide a 90-degree side discharge.

## BELT TUBE

Constructed of heavy gauge galvanized steel, the belt tube and bearing cover enclose the belts, fan sheave and bearings within the airstream.

## DRIVE FRAME

Motor and drive frame are constructed of heavy gauge galvanized steel. The pivoting motor base makes for simple belt tensioning.

## IMPELLER

Backward inclined non-overloading, aluminum impeller and hub statically and dynamically balanced to assure long life and quiet operation.

## MOUNTING BRACKETS

Galvanized steel mounting brackets for easy mounting in horizontal or vertical position.

## INLET CONE

Deep spun cone, aerodynamically designed for smooth air entry into the wheel.

## DUCT COLLARS

Duct collars provide ready attachment to ductwork and eliminate the need for square to round duct transitions.

## DRIVE

Adjustable or fixed pitch, 1.5 service factor V-belt drives with cast iron sheaves, and V-belts designed to be oil and heat resistant, and to dissipate static electricity.

## BEARINGS

Heavy duty grease lubricated pillow block bearings selected for minimum average life (AFBMA L-50) of at least 200,000 hours at maximum class speed.

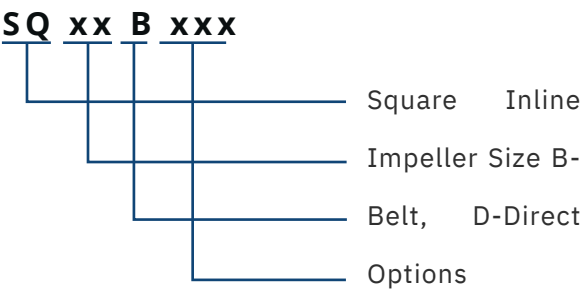
## SHAFT

AISI 1045, turned ground and polished for accuracy. Designed to provide first critical speed of at least 1.25 times the maximum class speed.

## VIBRATION ISOLATION

EIC offers a complete package of vibration isolators, isolation bases and inertia bases to simplify field assembly and reduce transmitted vibrations.

## ORDER CODE



### SPARK-RESISTANT CONSTRUCTION

Type “C”, Type “B” and Type “A” classification in accordance with AMCA Standard Handbook 99 guidelines are available as an option.

| Type | Construction                                                                                                                                                |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A    | All parts in contact with the airstream are constructed of non-ferrous material                                                                             |
| B    | The fan wheel is constructed of a non-ferrous material. A non-ferrous rub ring surrounds the fan shaft where it passes through the fan housing.             |
| C    | The Wheel or the inlet cone is constructed of non-ferrous material. A non-ferrous rub ring surrounds the fan shaft where it passes through the fan housing. |

### NOTES

**A-**Bearings shall be placed outside the airstream.

**B-**The user shall electrically ground all fan parts.

**C-**The use of the above standard in no way implies a guarantee of safety for any level of spark resistance. “Spark resistant construction also does not protect against ignition of explosive gases caused by catastrophic failure or from any airstream material that may be present in the system.”

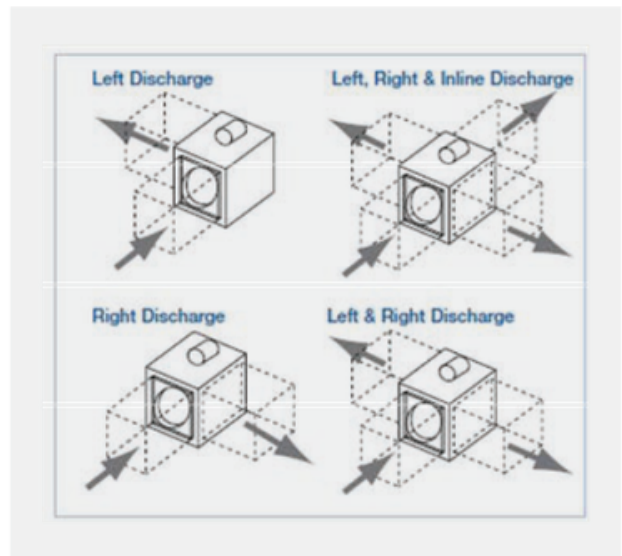
### ALUMINUM CONSTRUCTION

Aluminum construction is available for all direct drive sizes and belt drive. Some drive frame components may still be of galvanized construction to maintain structural integrity.



### DISCHARGE CONFIGURATION

Fan performance will change with different discharge positions. Catalog data is based on an inline discharge. Right side discharge will give you 105% of cataloged performance and left side will give you 106% of cataloged performance. Performance for right side discharge and left side discharge are not licensed by AMCA international.



### FILTER BOX

A filter box containing one or two inch aluminum wire mesh, removable and washable filters is available for attachment to the fan inlet side. The filter box is constructed of galvanized steel, with duct collars for easy mounting and removable side panels for easy filter cleaning or replacement.

Disposable paper filters are also available.



## OPTIONS & ACCESSORIES

### DOWN BLAST ROOF EXHAUSTERS



#### Backdraft Damper

Backdraft Damper, with automatic or motorized operation, features a felt seal on the edge of the damper blades for quiet operation. Damper frames are constructed of steel and blades are constructed of aluminum.

#### Variable Speed Control

VariableSpeedControl is an optional accessory; allow the adjustment of airflow for system balancing. Variable speed controllers are solid-state design, Variable speed controls can be shipped separately.



#### NEMA 1 type disconnect switch

NEMA 1 type disconnect switch mounted in the motor compartment when ODP or TEFC motors used. When explosion proof motors are specified, a NEMA 7/9 disconnect switch will be shipped loose for field mounting and wiring.

#### NEMA 3R rain-tight disconnect switch

NEMA 3R rain-tight disconnect switch, externally mounted when ODP or TEFC motors are used. NEMA 3R, rain proof, disconnects are available shipped loose for field mounting and wiring or factory mounted and wired.



#### NEMA 4 disconnect switch

NEMA 4 disconnect switch (optional) is mounted externally and is water and dust-tight. Switch is available shipped loose for field mounting and wiring or factory mounted and wired.

#### NEMA 7/9 disconnect switches

NEMA 7/9 disconnect switches are provided on fan with explosion proof motors. The NEMA 7/9 switch is designed for use with fans operating in hazardous environments. NEMA 7/9 disconnects will be shipped loose for field mounting and wiring.

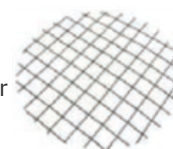


#### Insulated Housing

Insulated Housing for noise reduction and condensation control, the interior of the fan housing can be lined with a 1-inch fiberglass duct liner.

#### Inlet & Outlet Screen

Inlet & Outlet Screen Screens are available for mounting in the fan inlet or outlet.



#### Vibration Isolation Spring

Vibration Isolation Spring - Floor type vibration isolation mounts are available to reduce the transmission of fan vibration in 1" or 2" deflection.

#### Extended Lube Line

Extended Lube Lines allow for easy lubrication of bearings on belt driven units without disassembly.



#### Vibration Isolation Spring

Vibration Isolation Spring-Hanger type vibration isolation mounts

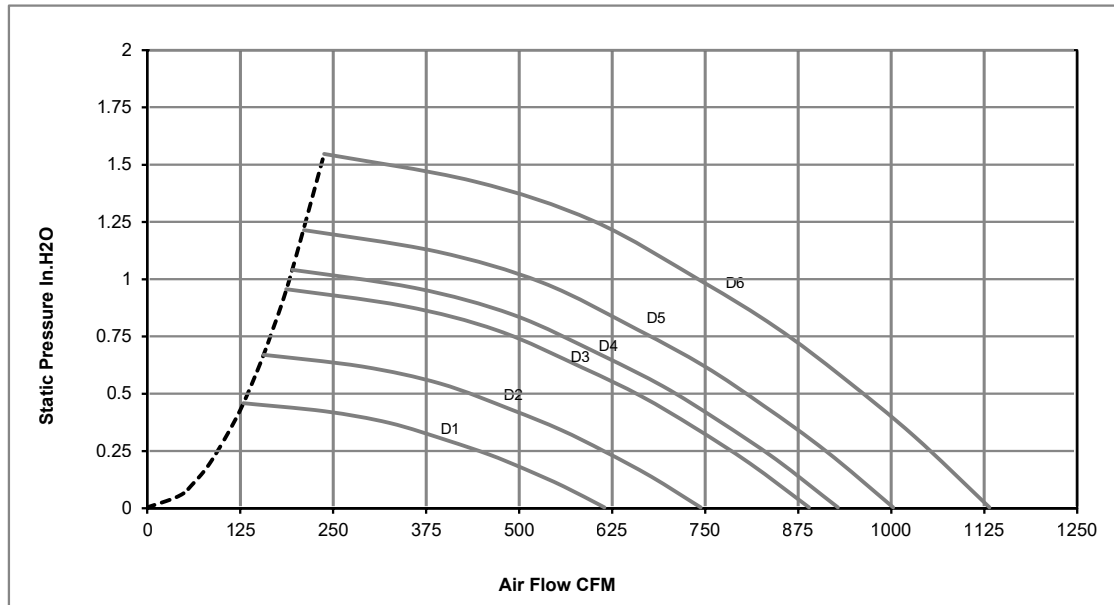
### OTHER ACCESSORIES/OPTIONS:

- Special Coatings
- ATEX Certificate
- Stainless Steel Construction
- Spark B or C
- Aluminum Bird Screen
- Stainless Steel Hardware

# DIRECT DRIVE FAN DATA

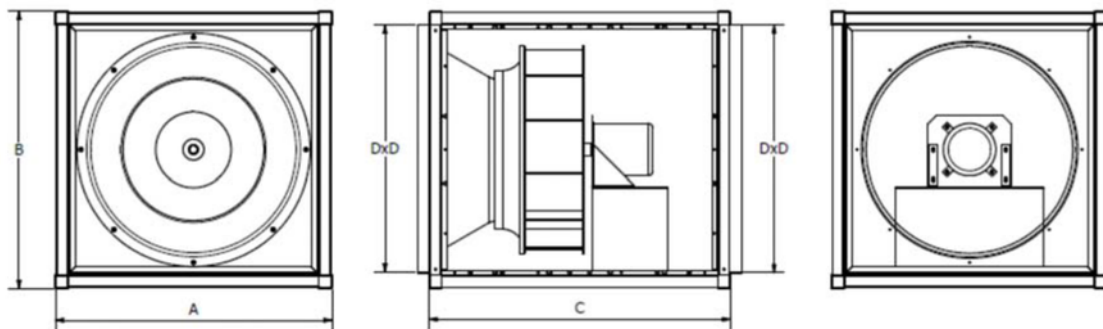
## SQ- INLINE FAN SERIES

### > SQ10D



| Motor<br>kW/Hz/ENCL | Fan RPM | 0.000" Pst |       | 0.250" Pst |       | 0.500" Pst |       | 0.750" Pst |       | 1.000" Pst |       | 1.250" Pst |       | 1.500" Pst |       |
|---------------------|---------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|                     |         | CFM        | Sones | CFM        | Sones | CFM        | Sones | CFM        | Sones | CFM        | Sones | CFM        | Sones | CFM        | Sones |
| 0.33/50/TEFC        | 950/D1  | 614        | 5.1   | 442        | 4.5   |            |       |            |       |            |       |            |       |            |       |
| 0.33/60/TEFC        | 1150/D2 | 744        | 7.2   | 611        | 6.6   | 428        | 6.1   |            |       |            |       |            |       |            |       |
| 0.55/50/TEAO        | 1375/D3 | 889        | 9.6   | 782        | 9.1   | 655        | 8.6   | 487        | 8.1   | 66         |       |            |       |            |       |
| 0.55/50/TEAO*       | 1440/D4 | 931        | 10.4  | 830        | 9.9   | 712        | 9.4   | 559        | 8.9   | 290        | 8.6   |            |       |            |       |
| 0.55/60/TEAO        | 1550/D5 | 1002       | 11.6  | 910        | 11.1  | 803        | 10.6  | 674        | 10.2  | 513        | 9.7   | 109        |       |            |       |
| 0.75/60/TEAO*       | 1750/D6 | 1132       | 14.1  | 1051       | 13.6  | 960        | 13.1  | 860        | 12.6  | 739        | 12.2  | 601        | 11.8  | 313        | 11.6  |

\* TEFC option is available on request



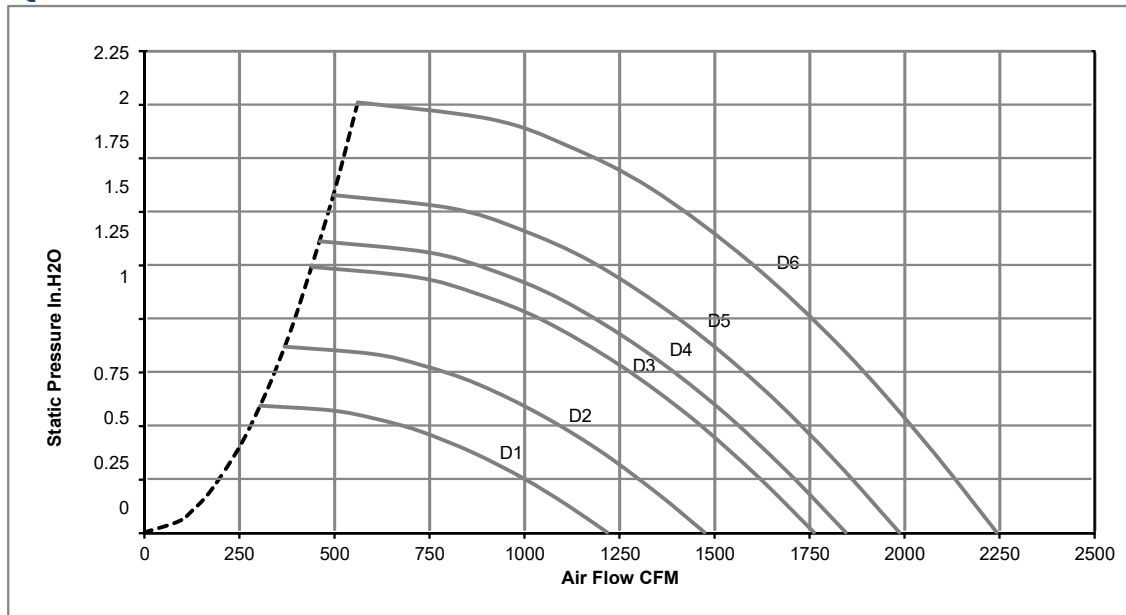
| MODEL | A   | B   | C   | D   | KG | Damper Size |
|-------|-----|-----|-----|-----|----|-------------|
| SQ10D | 406 | 406 | 616 | 348 | 37 | 405 x 405   |

All dimensions are in mm

# DIRECT DRIVE FAN DATA

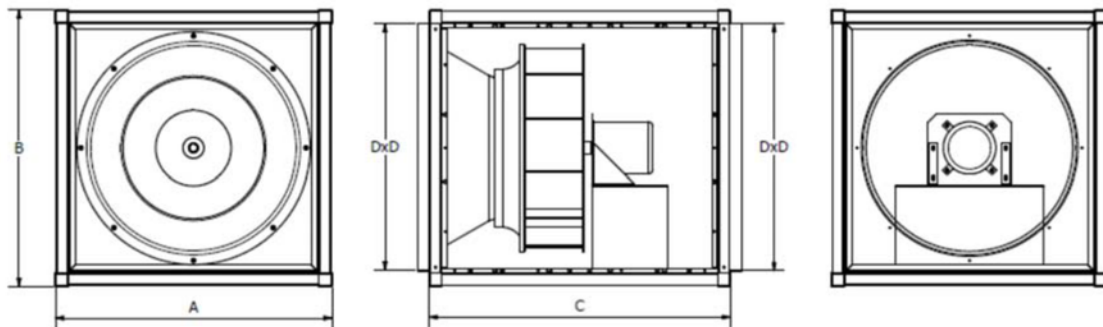
## SQ- INLINE FAN SERIES

### > SQ12D



| Motor<br>kW/Hz/ENCL | Fan RPM | 0.000" Pst |       | 0.250" Pst |       | 0.500" Pst |       | 0.750" Pst |       | 1.000" Pst |       | 1.500" Pst |       | 2.000" Pst |       |
|---------------------|---------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|                     |         | CFM        | Sones | CFM        | Sones | CFM        | Sones | CFM        | Sones | CFM        | Sones | CFM        | Sones | CFM        | Sones |
| 0.33/50/TEFC        | 950/D1  | 1218       | 7.6   | 1000       | 6.6   | 669        | 6.1   |            |       |            |       |            |       |            |       |
| 0.33/60/TEFC        | 1150/D2 | 1474       | 10.2  | 1298       | 9.3   | 1088       | 8.6   | 781        | 8.1   |            |       |            |       |            |       |
| 0.75/50/TEAO        | 1375/D3 | 1762       | 13.9  | 1620       | 13.2  | 1462       | 12.6  | 1274       | 12.0  | 1035       | 11.4  |            |       |            |       |
| 1.00/50/TEAO*       | 1440/D4 | 1846       | 15.1  | 1710       | 14.4  | 1560       | 13.8  | 1388       | 13.2  | 1177       | 12.7  |            |       |            |       |
| 0.75/60/TEAO        | 1550/D5 | 1987       | 16.6  | 1861       | 16.0  | 1724       | 15.4  | 1574       | 14.8  | 1403       | 14.3  | 832        | 13.7  |            |       |
| 1.00/60/TEAO*       | 1750/D6 | 2243       | 19.5  | 2132       | 18.9  | 2015       | 18.3  | 1890       | 17.7  | 1751       | 17.1  | 1413       | 16.3  | 596        | 16.3  |

\* TEFC option is available on request



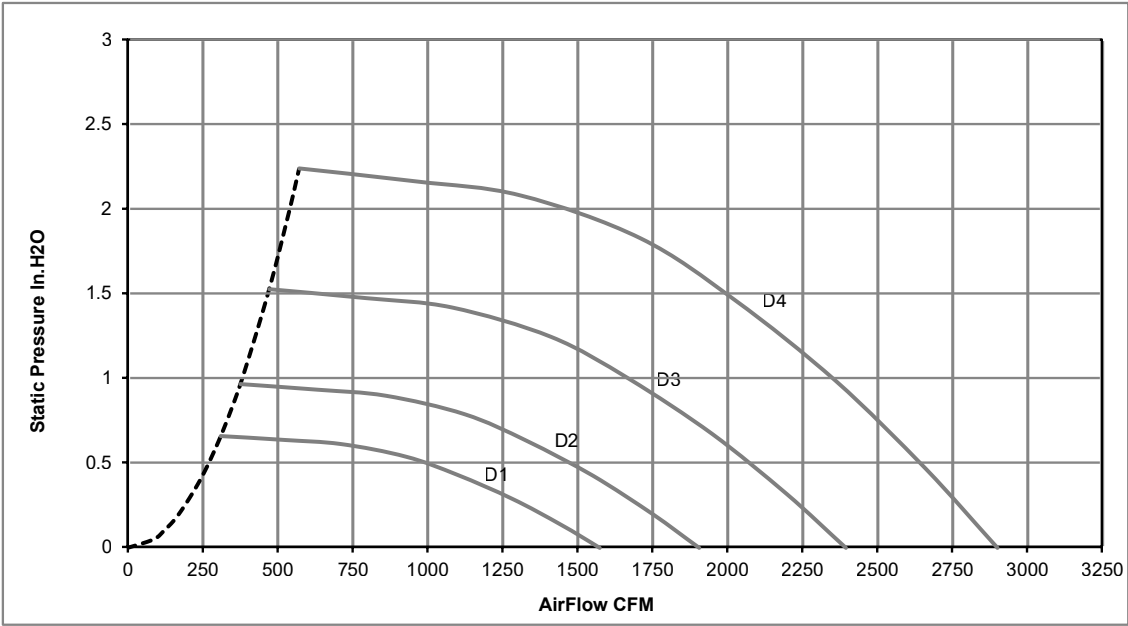
| MODEL | A   | B   | C   | D   | KG | Damper Size |
|-------|-----|-----|-----|-----|----|-------------|
| SQ12D | 558 | 558 | 692 | 498 | 41 | 560 x 560   |

All dimensions are in mm

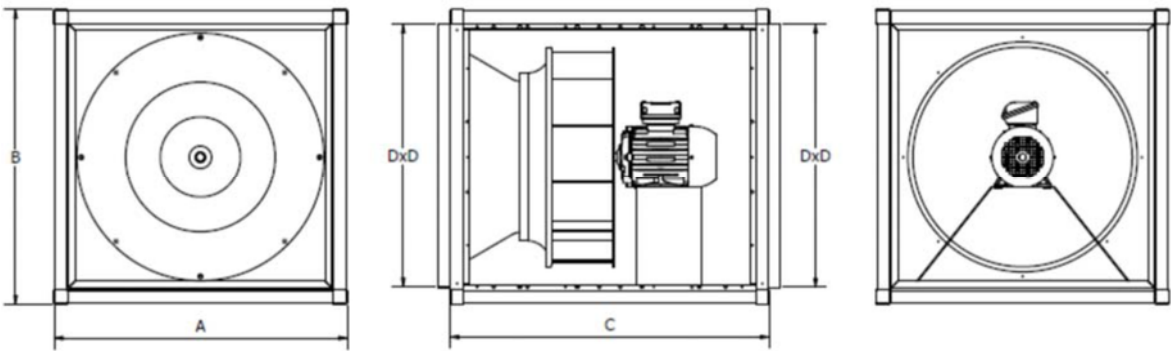
# DIRECT DRIVE FAN DATA

## SQ- INLINE FAN SERIES

### ► SQ13D



| Motor<br>kW/Hz/ENCL | Fan RPM | 0.000" Pst |       | 0.250" Pst |       | 0.500" Pst |       | 0.750" Pst |       | 1.000" Pst |       | 1.500" Pst |       | 2.000" Pst |       |
|---------------------|---------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|                     |         | CFM        | Sones | CFM        | Sones | CFM        | Sones | CFM        | Sones | CFM        | Sones | CFM        | Sones | CFM        | Sones |
| 0.33/50/TEFC        | 950/D1  | 1576       | 8.6   | 1325       | 8.4   | 989        | 8.3   |            |       |            |       |            |       |            |       |
| 0.55/60/TEFC        | 1150/D2 | 1907       | 11.9  | 1707       | 11.7  | 1472       | 11.5  | 1174       | 11.4  | 97         |       |            |       |            |       |
| 1.00/50/TEFC        | 1440/D3 | 2388       | 17.5  | 2232       | 17.3  | 2061       | 17.1  | 1872       | 17.0  | 1655       | 16.9  | 554        | 16.9  |            |       |
| 1.50/60/TEFC        | 1750/D4 | 2902       | 23.0  | 2774       | 22.9  | 2643       | 22.7  | 2498       | 22.6  | 2351       | 22.5  | 1991       | 22.4  | 1432       | 22.5  |



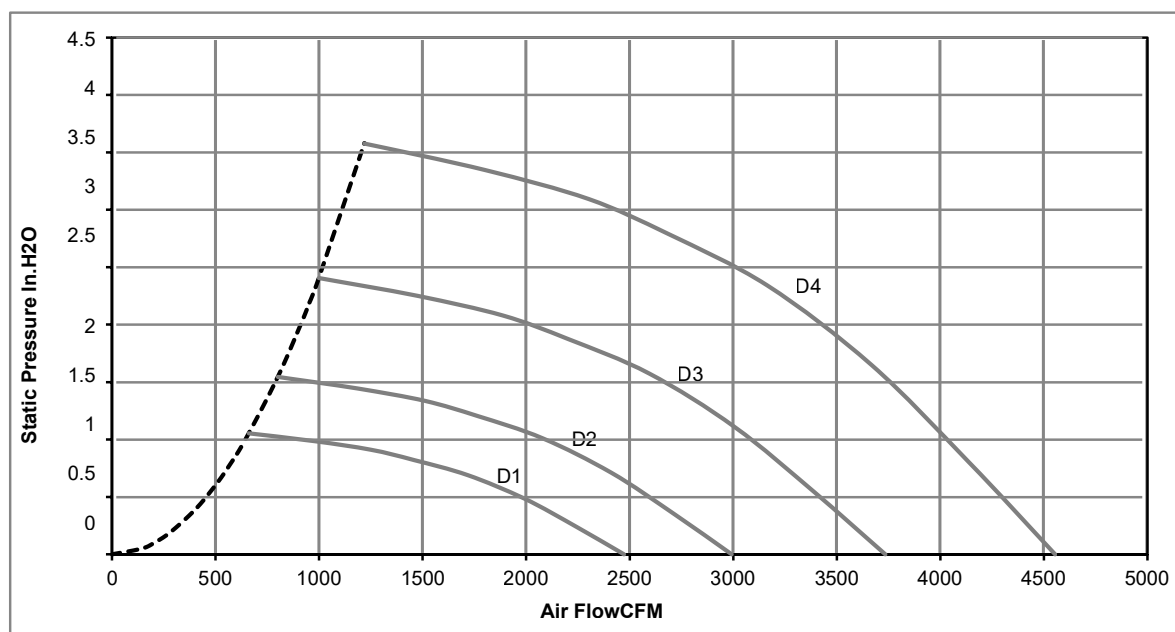
| MODEL | A   | B   | C   | D   | KG | Damper Size |
|-------|-----|-----|-----|-----|----|-------------|
| SQ13D | 558 | 558 | 692 | 498 | 45 | 560 x 560   |

All dimensions are in mm

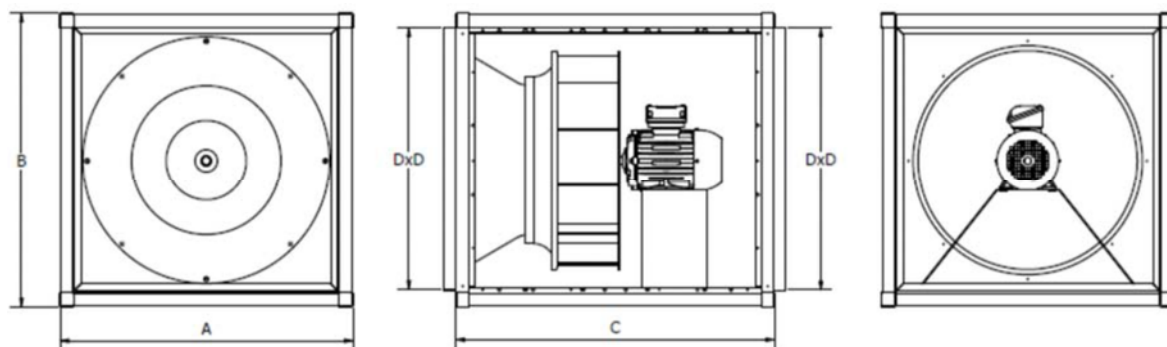
## DIRECT DRIVE FAN DATA

### SQ- INLINE FAN SERIES

#### ► SQ15D



| Motor<br>kW/Hz/ENCL | Fan RPM | 0.000" Pst |       | 0.500" Pst |       | 1.000" Pst |       | 1.500" Pst |       | 2.000" Pst |       | 2.500" Pst |       | 3.500" Pst |       |
|---------------------|---------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|                     |         | CFM        | Sones | CFM        | Sones | CFM        | Sones | CFM        | Sones | CFM        | Sones | CFM        | Sones | CFM        | Sones |
| 0.75/50/TEFC        | 950/D1  | 2473       | 15.3  | 1972       | 10.2  | 907        | 9.1   |            |       |            |       |            |       |            |       |
| 1.00/60/TEFC        | 1150/D2 | 2994       | 20.1  | 2590       | 15.4  | 2091       | 12.7  | 965        | 12.7  |            |       |            |       |            |       |
| 2.00/50/TEFC        | 1440/D3 | 3749       | 27.6  | 3433       | 23.7  | 3097       | 21.0  | 2678       | 18.6  | 2036       | 17.2  |            |       |            |       |
| 3.00/60/TEFC        | 1750/D4 | 4556       | 36.5  | 4296       | 32.5  | 4029       | 29.5  | 3750       | 27.3  | 3411       | 25.2  | 2992       | 23.6  | 1402       | 25.2  |



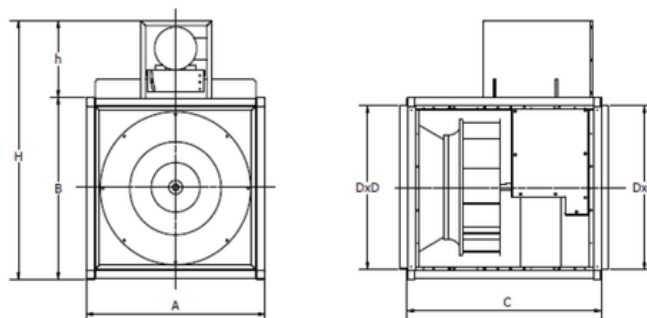
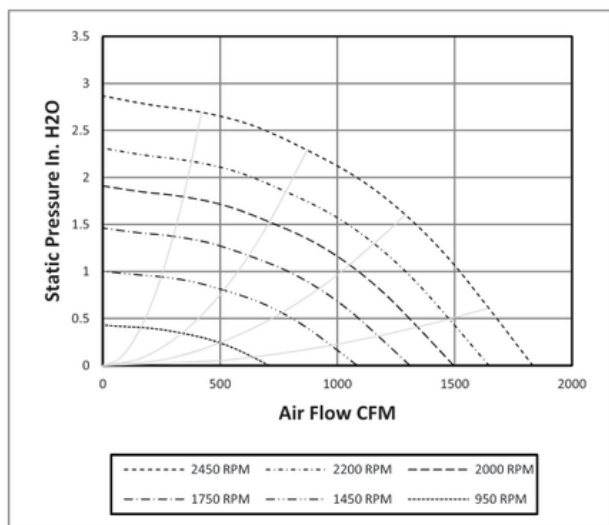
| MODEL | A   | B   | C   | D   | KG | Damper Size |
|-------|-----|-----|-----|-----|----|-------------|
| SQ15D | 711 | 711 | 838 | 653 | 93 | 711 x 711   |

All dimensions are in mm

# BELT DRIVE FAN DATA

## SQ- INLINE FAN SERIES

### ➤ SQ10B



| A                         | B   | C   | D   | H   | h   |
|---------------------------|-----|-----|-----|-----|-----|
| 406                       | 406 | 616 | 348 | 736 | 330 |
| Damper Size - 405 x 405mm |     |     |     |     |     |
| Fan Weight - 43kg         |     |     |     |     |     |

All dimensions are in mm

| HP  | RPM  | 0.000" Pst |       | 0.125" Pst |       | 0.250" Pst |       | 0.375" Pst |       | 0.500" Pst |       | 0.625" Pst |       | 1.000" Pst |       | 1.500" Pst |       | 2.500" Pst |       |
|-----|------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|     |      | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       |
|     |      | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones |
| 1/4 | 900  | 673        |       | 569        |       | 434        |       | 125        |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|     |      | 0.05       | 6.2   | 0.05       | 8.1   | 0.05       | 6.7   | 0.03       | 4.4   | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
|     | 950  | 711        |       | 612        |       | 495        |       | 285        |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|     |      | 0.06       | 6.8   | 0.06       | 8.6   | 0.06       | 8.4   | 0.05       | 5.2   | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
|     | 1000 | 748        |       | 655        |       | 548        |       | 381        |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|     |      | 0.07       | 7.3   | 0.07       | 8.9   | 0.07       | 9.4   | 0.06       | 6.0   | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
|     | 1100 | 823        |       | 739        |       | 649        |       | 528        |       | 336        |       | -          |       | -          |       | -          |       | -          |       |
|     |      | 0.09       | 8.4   | 0.10       | 10.3  | 0.09       | 10.5  | 0.09       | 8.7   | 0.07       | 6.6   | -          | -     | -          | -     | -          | -     | -          | -     |
|     | 1150 | 861        |       | 780        |       | 696        |       | 590        |       | 432        |       | -          |       | -          |       | -          |       | -          |       |
|     |      | 0.11       | 8.9   | 0.11       | 10.7  | 0.11       | 11.0  | 0.10       | 10.5  | 0.09       | 7.5   | -          | -     | -          | -     | -          | -     | -          | -     |
|     | 1200 | 898        |       | 821        |       | 741        |       | 646        |       | 515        |       | -          |       | -          |       | -          |       | -          |       |
|     |      | 0.12       | 9.5   | 0.12       | 11.0  | 0.12       | 11.6  | 0.12       | 11.6  | 0.11       | 8.4   | -          | -     | -          | -     | -          | -     | -          | -     |
| 1/3 | 1300 | 973        |       | 902        |       | 828        |       | 748        |       | 647        |       | 506        |       | -          |       | -          |       | -          |       |
|     |      | 0.15       | 10.7  | 0.16       | 11.9  | 0.15       | 12.7  | 0.15       | 12.8  | 0.15       | 11.5  | 0.13       | 9.0   | -          | -     | -          | -     | -          | -     |
|     | 1400 | 1048       |       | 982        |       | 914        |       | 845        |       | 761        |       | 657        |       | -          |       | -          |       | -          |       |
|     |      | 0.19       | 11.9  | 0.19       | 12.8  | 0.19       | 14.0  | 0.19       | 14.0  | 0.19       | 14.0  | 0.18       | 11.5  | -          | -     | -          | -     | -          | -     |
|     | 1450 | 1085       |       | 1021       |       | 957        |       | 890        |       | 812        |       | 719        |       | -          |       | -          |       | -          |       |
|     |      | 0.21       | 12.5  | 0.21       | 13.3  | 0.21       | 14.6  | 0.21       | 14.6  | 0.21       | 14.6  | 0.20       | 13.1  | -          | -     | -          | -     | -          | -     |

Performance certified is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of appurtenances (belt tube and bearing cover). The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type A: free outlet hemispherical sone levels.

### ➤ SQ10B

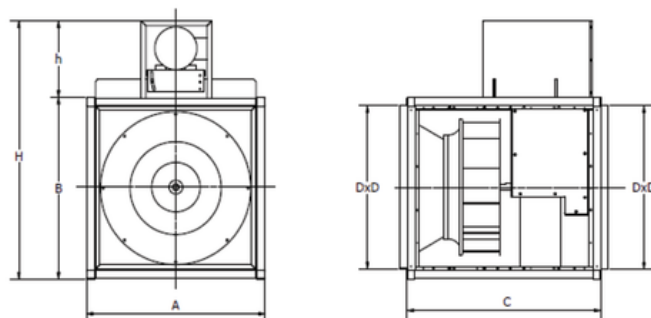
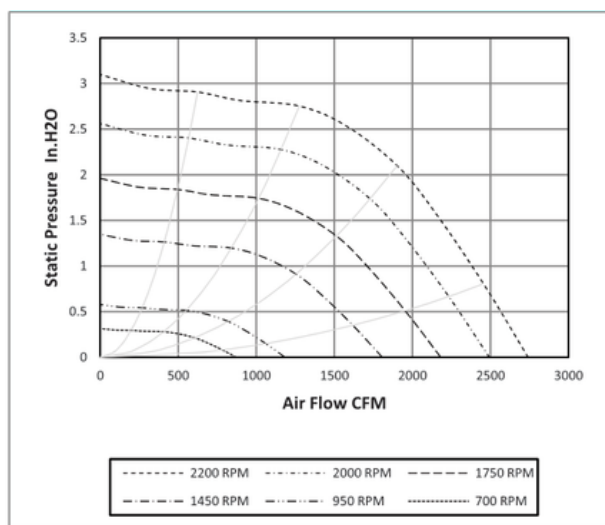
| HP    | RPM  | 0.000" Pst |       | 0.125" Pst |       | 0.250" Pst |       | 0.375" Pst |       | 0.500" Pst |       | 0.625" Pst |       | 1.000" Pst |       | 1.500" Pst |       | 2.500" Pst |       |
|-------|------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|       |      | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       |
|       |      | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones |
| 1/3   | 1500 | 1122       |       | 1061       |       | 999        |       | 934        |       | 862        |       | 780        |       | -          |       | -          |       | -          |       |
|       |      | 0.23       | 13.1  | 0.23       | 13.8  | 0.24       | 15.3  | 0.23       | 15.2  | 0.23       | 15.2  | 0.23       | 14.9  | -          | -     | -          | -     | -          | -     |
| 1/2   | 1600 | 1197       |       | 1140       |       | 1082       |       | 1021       |       | 961        |       | 886        |       | 565        |       | -          |       | -          |       |
|       |      | 0.28       | 14.4  | 0.28       | 14.9  | 0.29       | 16.4  | 0.28       | 16.5  | 0.28       | 16.4  | 0.28       | 16.4  | 0.23       | 12.0  | -          | -     | -          | -     |
|       | 1750 | 1309       |       | 1257       |       | 1204       |       | 1150       |       | 1094       |       | 1036       |       | 804        |       | -          |       | -          |       |
|       |      | 0.36       | 16.4  | 0.37       | 16.7  | 0.37       | 17.8  | 0.37       | 18.4  | 0.37       | 18.4  | 0.36       | 18.3  | 0.35       | 15.2  | -          | -     | -          | -     |
| 3/4   | 1900 | 1422       |       | 1373       |       | 1325       |       | 1276       |       | 1225       |       | 1174       |       | 990        |       | 570        |       | -          |       |
|       |      | 0.46       | 18.4  | 0.47       | 18.7  | 0.47       | 19.5  | 0.48       | 20.5  | 0.47       | 20.4  | 0.47       | 20.3  | 0.46       | 19.8  | 0.36       | 15.3  | -          | -     |
|       | 2000 | 1497       |       | 1450       |       | 1404       |       | 1358       |       | 1310       |       | 1262       |       | 1096       |       | 761        |       | -          |       |
|       |      | 0.54       | 19.8  | 0.55       | 19.9  | 0.55       | 20.7  | 0.56       | 21.6  | 0.56       | 21.8  | 0.55       | 21.7  | 0.53       | 21.4  | 0.47       | 17.3  | -          | -     |
| 1     | 2100 | 1571       |       | 1527       |       | 1483       |       | 1439       |       | 1395       |       | 1348       |       | 1198       |       | 926        |       | -          |       |
|       |      | 0.62       | 21.2  | 0.63       | 21.2  | 0.64       | 21.9  | 0.64       | 22.6  | 0.65       | 23.2  | 0.64       | 23.1  | 0.62       | 22.8  | 0.59       | 19.4  | -          | -     |
|       | 2200 | 1646       |       | 1604       |       | 1562       |       | 1520       |       | 1478       |       | 1434       |       | 1297       |       | 1057       |       | -          |       |
|       |      | 0.72       | 22.6  | 0.72       | 22.7  | 0.73       | 23.2  | 0.74       | 23.8  | 0.74       | 24.6  | 0.74       | 24.5  | 0.72       | 24.2  | 0.69       | 21.7  | -          | -     |
|       | 2300 | 1721       |       | 1681       |       | 1641       |       | 1601       |       | 1560       |       | 1519       |       | 1392       |       | 1180       |       | -          |       |
|       |      | 0.82       | 24.0  | 0.82       | 24.1  | 0.83       | 24.5  | 0.84       | 25.1  | 0.85       | 25.7  | 0.84       | 25.9  | 0.82       | 25.6  | 0.80       | 24.5  | -          | -     |
| 1 1/2 | 2400 | 1796       |       | 1757       |       | 1719       |       | 1680       |       | 1642       |       | 1603       |       | 1481       |       | 1292       |       | -          |       |
|       |      | 0.93       | 25.4  | 0.94       | 25.6  | 0.94       | 25.8  | 0.95       | 26.4  | 0.96       | 26.9  | 0.96       | 27.4  | 0.94       | 27.0  | 0.92       | 26.5  | -          | -     |
|       | 2450 | 1833       |       | 1796       |       | 1758       |       | 1720       |       | 1683       |       | 1645       |       | 1526       |       | 1343       |       | 731        |       |
|       |      | 1.00       | 26.2  | 1.00       | 26.4  | 1.00       | 26.6  | 1.01       | 27.0  | 1.02       | 27.5  | 1.03       | 28.1  | 1.00       | 27.7  | 0.98       | 27.3  | 0.77       | 23.1  |

Performance certified is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of appurtenances (belt tube and bearing cover). The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type A: free outlet hemispherical sone levels.

# BELT DRIVE FAN DATA

## SQ- INLINE FAN SERIES

### ➤ SQ12B



| A                          | B   | C   | D   | H   | h   |
|----------------------------|-----|-----|-----|-----|-----|
| 558                        | 558 | 692 | 498 | 919 | 361 |
| Damper Size – 560 x 560 mm |     |     |     |     |     |
| Fan Weight – 45 KG         |     |     |     |     |     |

All dimensions are in mm

| HP  | RPM  | 0.000" Pst |       | 0.125" Pst |       | 0.250" Pst |       | 0.375" Pst |       | 0.500" Pst |       | 0.625" Pst |       | 1.000" Pst |       | 1.500" Pst |       | 2.500" Pst |       |
|-----|------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|     |      | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       |
|     |      | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones |
| 1/4 | 700  | 872        |       | 730        |       | 529        |       | -          |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|     |      | 0.05       | 5.4   | 0.05       | 5.7   | 0.05       | 5.6   | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
|     | 800  | 997        |       | 876        |       | 734        |       | -          |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|     |      | 0.07       | 6.8   | 0.08       | 7.0   | 0.08       | 7.1   | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
|     | 900  | 1122       |       | 1015       |       | 898        |       | 749        |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|     |      | 0.09       | 8.1   | 0.10       | 8.3   | 0.11       | 8.5   | 0.11       | 8.4   | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
|     | 950  | 1184       |       | 1083       |       | 973        |       | 848        |       | 625        |       | -          |       | -          |       | -          |       | -          |       |
|     |      | 0.11       | 8.9   | 0.12       | 9.1   | 0.13       | 9.2   | 0.13       | 9.2   | 0.12       | 8.8   | -          | -     | -          | -     | -          | -     | -          | -     |
|     | 1000 | 1246       |       | 1151       |       | 1048       |       | 934        |       | 773        |       | -          |       | -          |       | -          |       | -          |       |
|     |      | 0.13       | 9.7   | 0.14       | 9.8   | 0.15       | 10.0  | 0.15       | 10.0  | 0.15       | 9.9   | -          | -     | -          | -     | -          | -     | -          | -     |
| 1/3 | 1100 | 1371       |       | 1284       |       | 1193       |       | 1096       |       | 985        |       | 821        |       | -          |       | -          |       | -          |       |
|     |      | 0.17       | 11.4  | 0.18       | 11.5  | 0.19       | 11.6  | 0.20       | 11.7  | 0.20       | 11.6  | 0.20       | 11.4  | -          | -     | -          | -     | -          | -     |
|     | 1150 | 1433       |       | 1350       |       | 1265       |       | 1172       |       | 1071       |       | 939        |       | -          |       | -          |       | -          |       |
|     |      | 0.19       | 12.3  | 0.20       | 12.3  | 0.22       | 12.3  | 0.22       | 12.5  | 0.23       | 12.5  | 0.23       | 12.3  | -          | -     | -          | -     | -          | -     |
| 1/2 | 1200 | 1495       |       | 1416       |       | 1336       |       | 1247       |       | 1155       |       | 1048       |       | -          |       | -          |       | -          |       |
|     |      | 0.22       | 13.1  | 0.23       | 13.1  | 0.24       | 13.1  | 0.25       | 13.3  | 0.26       | 13.3  | 0.26       | 13.2  | -          | -     | -          | -     | -          | -     |
|     | 1300 | 1620       |       | 1547       |       | 1473       |       | 1393       |       | 1311       |       | 1221       |       | -          |       | -          |       | -          |       |
|     |      | 0.28       | 14.9  | 0.29       | 14.8  | 0.30       | 14.9  | 0.31       | 14.9  | 0.32       | 15.0  | 0.33       | 15.0  | -          | -     | -          | -     | -          | -     |

Performance certified is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of appurtenances (belt tube and bearing cover). The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type A: free outlet hemispherical sone levels.

### ➤ SQ12B

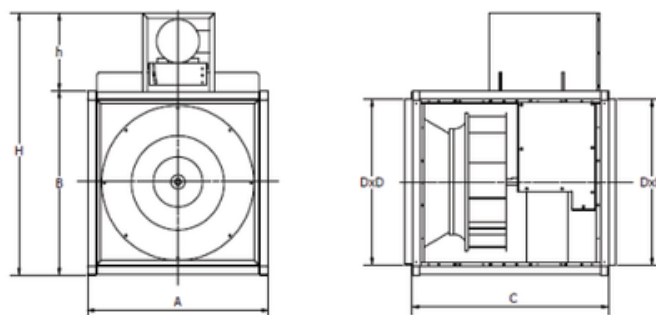
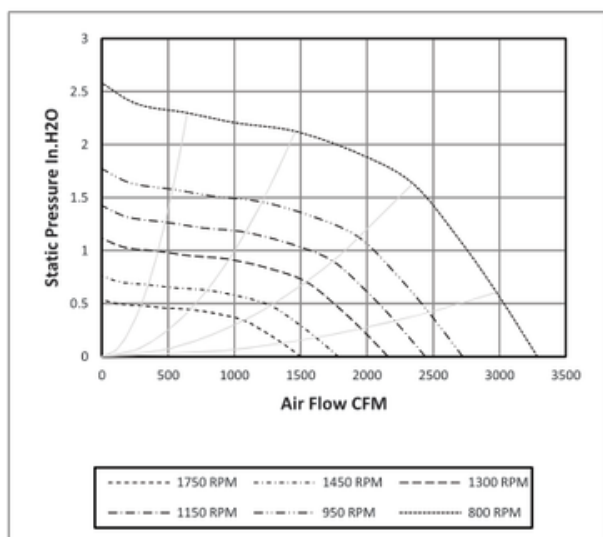
| HP    | RPM  | 0.000" Pst |       | 0.125" Pst |       | 0.250" Pst |       | 0.375" Pst |       | 0.500" Pst |       | 0.625" Pst |       | 1.000" Pst |       | 1.500" Pst |       | 2.500" Pst |       |
|-------|------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|       |      | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       |
|       |      | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones |
| 1/2   | 1400 | 1745       |       | 1676       |       | 1608       |       | 1537       |       | 1461       |       | 1384       |       | 1059       |       | -          |       | -          |       |
|       |      | 0.35       | 16.6  | 0.36       | 16.6  | 0.37       | 16.7  | 0.39       | 16.7  | 0.39       | 16.7  | 0.40       | 16.8  | 0.40       | 16.5  | -          | -     | -          | -     |
| 3/4   | 1450 | 1807       |       | 1741       |       | 1675       |       | 1608       |       | 1534       |       | 1461       |       | 1177       |       | -          |       | -          |       |
|       |      | 0.38       | 17.6  | 0.40       | 17.6  | 0.41       | 17.6  | 0.43       | 17.6  | 0.44       | 17.7  | 0.45       | 17.7  | 0.45       | 17.5  | -          | -     | -          | -     |
|       | 1500 | 1869       |       | 1806       |       | 1742       |       | 1678       |       | 1607       |       | 1536       |       | 1293       |       | -          |       | -          |       |
|       |      | 0.42       | 18.6  | 0.44       | 18.6  | 0.45       | 18.6  | 0.47       | 18.6  | 0.48       | 18.6  | 0.49       | 18.7  | 0.51       | 18.5  | -          | -     | -          | -     |
|       | 1600 | 1994       |       | 1934       |       | 1874       |       | 1815       |       | 1751       |       | 1684       |       | 1469       |       | -          |       | -          |       |
|       |      | 0.51       | 20.5  | 0.53       | 20.5  | 0.54       | 20.5  | 0.56       | 20.6  | 0.57       | 20.6  | 0.58       | 20.6  | 0.61       | 20.6  | -          | -     | -          | -     |
|       | 1700 | 2119       |       | 2062       |       | 2006       |       | 1950       |       | 1893       |       | 1830       |       | 1638       |       | 1261       |       | -          |       |
|       |      | 0.61       | 22.5  | 0.63       | 22.5  | 0.65       | 22.5  | 0.66       | 22.5  | 0.68       | 22.5  | 0.69       | 22.5  | 0.73       | 22.7  | 0.72       | 22.4  | -          | -     |
| 1     | 1750 | 2181       |       | 2126       |       | 2072       |       | 2017       |       | 1962       |       | 1902       |       | 1719       |       | 1381       |       | -          |       |
|       |      | 0.67       | 23.5  | 0.69       | 23.5  | 0.70       | 23.5  | 0.72       | 23.5  | 0.74       | 23.5  | 0.75       | 23.6  | 0.79       | 23.7  | 0.79       | 23.5  | -          | -     |
|       | 1900 | 2368       |       | 2318       |       | 2267       |       | 2217       |       | 2166       |       | 2116       |       | 1947       |       | 1696       |       | -          |       |
|       |      | 0.86       | 26.7  | 0.87       | 26.7  | 0.89       | 26.8  | 0.91       | 26.8  | 0.93       | 26.8  | 0.95       | 26.9  | 0.99       | 27.0  | 1.02       | 26.9  | -          | -     |
| 1 1/2 | 2200 | 2742       |       | 2698       |       | 2655       |       | 2611       |       | 2568       |       | 2524       |       | 2387       |       | 2192       |       | 1641       |       |
|       |      | 1.33       | 34.3  | 1.35       | 34.3  | 1.37       | 34.3  | 1.39       | 34.3  | 1.41       | 34.4  | 1.43       | 34.4  | 1.49       | 34.4  | 1.55       | 34.5  | 1.55       | 33.8  |

Performance certified is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of appurtenances (belt tube and bearing cover). The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type A: free outlet hemispherical sone levels.

# BELT DRIVE FAN DATA

## SQ- INLINE FAN SERIES

### ► SQ13B



| A                          | B   | C   | D   | H   | h   |
|----------------------------|-----|-----|-----|-----|-----|
| 558                        | 558 | 692 | 498 | 919 | 361 |
| Damper Size – 560 x 560 mm |     |     |     |     |     |
| Fan Weight – 45 KG         |     |     |     |     |     |

All dimensions are in mm

| HP  | RPM  | 0.000" Pst |       | 0.125" Pst |       | 0.250" Pst |       | 0.375" Pst |       | 0.500" Pst |       | 0.625" Pst |       | 1.000" Pst |       | 1.500" Pst |       | 2.500" Pst |       |
|-----|------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|     |      | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       |
|     |      | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones |
| 1/4 | 600  | 1126       |       | 936        |       | 533        |       | -          |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|     |      | 0.07       | 5.1   | 0.06       | 4.4   | 0.06       | 3.6   | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
|     | 700  | 1314       |       | 1155       |       | 965        |       | 262        |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|     |      | 0.09       | 6.7   | 0.10       | 6.0   | 0.10       | 5.5   | 0.06       | 5.0   | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
|     | 800  | 1502       |       | 1365       |       | 1212       |       | 990        |       | 202        |       | -          |       | -          |       | -          |       | -          |       |
|     |      | 0.13       | 8.5   | 0.14       | 7.8   | 0.15       | 7.2   | 0.15       | 6.7   | 0.08       | 6.2   | -          | -     | -          | -     | -          | -     | -          | -     |
| 1/3 | 900  | 1689       |       | 1568       |       | 1438       |       | 1289       |       | 1045       |       | 374        |       | -          |       | -          |       | -          |       |
|     |      | 0.19       | 10.4  | 0.20       | 9.7   | 0.20       | 9.1   | 0.21       | 8.6   | 0.21       | 7.9   | 0.13       | 7.5   | -          | -     | -          | -     | -          | -     |
|     | 950  | 1783       |       | 1669       |       | 1547       |       | 1412       |       | 1251       |       | 892        |       | -          |       | -          |       | -          |       |
|     |      | 0.22       | 11.1  | 0.23       | 10.5  | 0.24       | 9.9   | 0.25       | 9.4   | 0.25       | 8.9   | 0.22       | 8.3   | -          | -     | -          | -     | -          | -     |
|     | 1000 | 1877       |       | 1768       |       | 1654       |       | 1533       |       | 1391       |       | 1167       |       | -          |       | -          |       | -          |       |
|     |      | 0.26       | 12.0  | 0.27       | 11.4  | 0.28       | 10.8  | 0.28       | 10.3  | 0.29       | 9.8   | 0.29       | 9.3   | -          | -     | -          | -     | -          | -     |
| 1/2 | 1100 | 2065       |       | 1966       |       | 1866       |       | 1756       |       | 1638       |       | 1519       |       | -          |       | -          |       | -          |       |
|     |      | 0.34       | 13.7  | 0.35       | 13.2  | 0.36       | 12.7  | 0.37       | 12.3  | 0.38       | 11.8  | 0.39       | 11.4  | -          | -     | -          | -     | -          | -     |
|     | 1150 | 2159       |       | 2064       |       | 1969       |       | 1865       |       | 1759       |       | 1645       |       | -          |       | -          |       | -          |       |
|     |      | 0.39       | 14.8  | 0.40       | 14.3  | 0.41       | 13.7  | 0.42       | 13.3  | 0.43       | 12.9  | 0.44       | 12.4  | -          | -     | -          | -     | -          | -     |
| 3/4 | 1200 | 2252       |       | 2162       |       | 2071       |       | 1973       |       | 1872       |       | 1768       |       | 1487       |       | -          |       | -          |       |
|     |      | 0.44       | 15.9  | 0.45       | 15.3  | 0.46       | 14.8  | 0.47       | 14.3  | 0.48       | 13.9  | 0.49       | 13.5  | 0.50       | 12.0  | -          | -     | -          | -     |

Performance certified is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of appurtenances (belt tube and bearing cover). The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type A: free outlet hemispherical sone levels.

### ► SQ13B

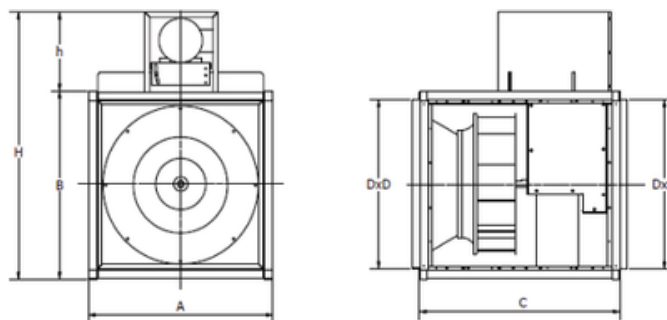
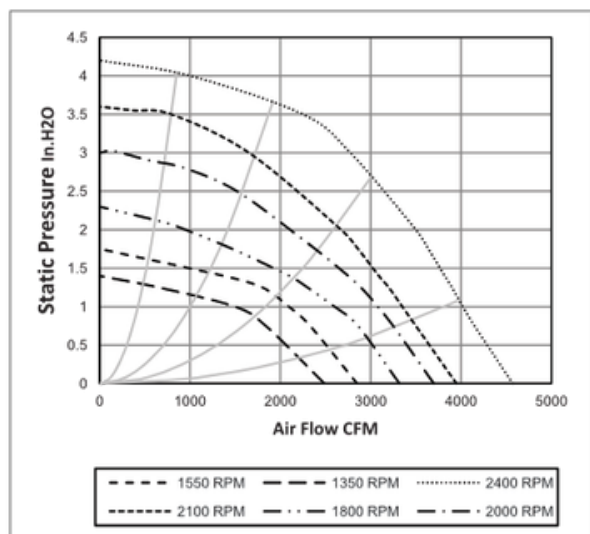
| HP    | RPM  | 0.000" Pst |       | 0.125" Pst |       | 0.250" Pst |       | 0.375" Pst |       | 0.500" Pst |       | 0.625" Pst |       | 1.000" Pst |       | 1.500" Pst |       | 2.500" Pst |       |
|-------|------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|       |      | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       |
|       |      | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones |
| 3/4   | 1300 | 2440       |       | 2356       |       | 2273       |       | 2186       |       | 2093       |       | 2007       |       | 1809       |       | -          |       | -          |       |
|       |      | 0.56       | 18.1  | 0.57       | 17.6  | 0.59       | 17.1  | 0.60       | 16.6  | 0.61       | 16.1  | 0.62       | 15.7  | 0.63       | 14.3  | -          | -     | -          | -     |
| 1     | 1400 | 2628       |       | 2550       |       | 2472       |       | 2394       |       | 2309       |       | 2230       |       | 2058       |       | -          |       | -          |       |
|       |      | 0.70       | 20.4  | 0.71       | 19.8  | 0.73       | 19.3  | 0.74       | 18.9  | 0.75       | 18.4  | 0.76       | 17.9  | 0.78       | 16.7  | -          | -     | -          | -     |
|       | 1450 | 2722       |       | 2647       |       | 2571       |       | 2496       |       | 2416       |       | 2339       |       | 2180       |       | -          |       | -          |       |
|       |      | 0.78       | 21.6  | 0.79       | 21.1  | 0.80       | 20.6  | 0.82       | 20.1  | 0.83       | 19.7  | 0.84       | 19.2  | 0.86       | 18.0  | -          | -     | -          | -     |
| 1 1/2 | 1500 | 2816       |       | 2743       |       | 2670       |       | 2598       |       | 2522       |       | 2448       |       | 2300       |       | 1495       |       | -          |       |
|       |      | 0.86       | 22.9  | 0.87       | 22.4  | 0.89       | 21.9  | 0.90       | 21.4  | 0.91       | 20.9  | 0.92       | 20.5  | 0.94       | 19.2  | 0.89       | 17.3  | -          | -     |
|       | 1600 | 3003       |       | 2935       |       | 2867       |       | 2799       |       | 2731       |       | 2662       |       | 2524       |       | 1981       |       | -          |       |
|       |      | 1.04       | 25.4  | 1.06       | 24.9  | 1.07       | 24.4  | 1.09       | 23.9  | 1.10       | 23.5  | 1.11       | 23.0  | 1.13       | 21.7  | 1.17       | 19.9  | -          | -     |
| 2     | 1700 | 3191       |       | 3127       |       | 3063       |       | 2999       |       | 2935       |       | 2874       |       | 2744       |       | 2327       |       | -          |       |
|       |      | 1.25       | 28.3  | 1.27       | 27.7  | 1.28       | 27.2  | 1.30       | 26.6  | 1.31       | 26.1  | 1.33       | 25.7  | 1.35       | 24.4  | 1.41       | 22.7  | -          | -     |

Performance certified is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of appurtenances (belt tube and bearing cover). The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type A: free outlet hemispherical sone levels.

# BELT DRIVE FAN DATA

## SQ- INLINE FAN SERIES

### ➤ SQ13BHP



| A                          | B   | C   | D   | H   | h   |
|----------------------------|-----|-----|-----|-----|-----|
| 558                        | 558 | 692 | 498 | 919 | 361 |
| Damper Size - 560 x 560 mm |     |     |     |     |     |
| Fan Weight - 48kg          |     |     |     |     |     |

All dimensions are in mm

|       | RPM  | 0.000" Pst |       | 0.750" Pst |       | 1.000" Pst |       | 1.250" Pst |       | 1.500" Pst |       | 2.000" Pst |       | 2.500" Pst |       | 3.000" Pst |       | 3.500" Pst |       |
|-------|------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|       |      | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       |
|       |      | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones |
| 1/3   | 1050 | 2000       |       | 930        |       | -          |       | -          |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|       |      | 0.25       | 12    | 0.28       | 9     | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
| 1/2   | 1150 | 2200       |       | 1340       |       | -          |       | -          |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|       |      | 0.37       | 13    | 0.38       | 10.5  | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
|       | 1250 | 3300       |       | 1615       |       | 1154       |       | -          |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|       |      | 0.40       | 15    | 0.49       | 12    | 0.45       | 12    | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
| 3/4   | 1350 | 2490       |       | 1840       |       | 1500       |       | -          |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|       |      | 0.55       | 16    | 0.60       | 12.5  | 0.60       | 12.5  | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
| 1     | 1450 | 2750       |       | 2140       |       | 1875       |       | 1525       |       | 870        |       | -          |       | -          |       | -          |       | -          |       |
|       |      | 0.85       | 18    | 0.70       | 15    | 0.70       | 15    | 0.70       | 15    | 0.68       | 15    | -          | -     | -          | -     | -          | -     | -          | -     |
|       | 1550 | 2850       |       | 2330       |       | 2095       |       | 1800       |       | 1371       |       | -          |       | -          |       | -          |       | -          |       |
|       |      | 0.92       | 19    | 0.82       | 16    | 0.83       | 16    | 0.85       | 16    | 0.80       | 16    | -          | -     | -          | -     | -          | -     | -          | -     |
| 1 1/2 | 1650 | 3100       |       | 2550       |       | 2350       |       | 2090       |       | 1800       |       | 1300       |       | -          |       | -          |       | -          |       |
|       |      | 1.20       | 19    | 0.97       | 17.5  | 1.00       | 17.5  | 1.10       | 17.5  | 1.10       | 17.5  | 1.09       | 17.4  | -          | -     | -          | -     | -          | -     |
|       | 1800 | 3550       |       | 2840       |       | 2445       |       | 2200       |       | 1925       |       | 1460       |       | -          |       | -          |       | -          |       |
|       |      | 1.30       | 21    | 1.20       | 18    | 1.20       | 18    | 1.24       | 18    | 1.26       | 18.5  | 1.20       | 19    | -          | -     | -          | -     | -          | -     |
| 2     | 2000 | 3860       |       | 3250       |       | 3080       |       | 2900       |       | 2700       |       | 2275       |       | 1520       |       | -          |       | -          |       |
|       |      | 1.80       | 22    | 1.61       | 20    | 1.61       | 20    | 1.63       | 20    | 1.70       | 20    | 1.65       | 21    | 1.60       | 21    | -          | -     | -          | -     |

Performance is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of appurtenances (belt tube and bearing cover). The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type A: free outlet hemispherical sone levels. Model SQ13BHP is not licensed to bear the AMCA Certified Rating Seal.

### ➤ SQ13BHP

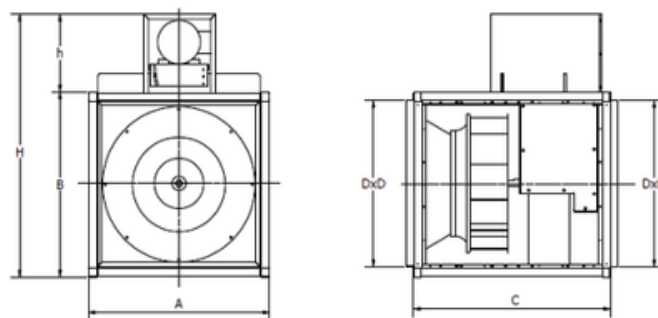
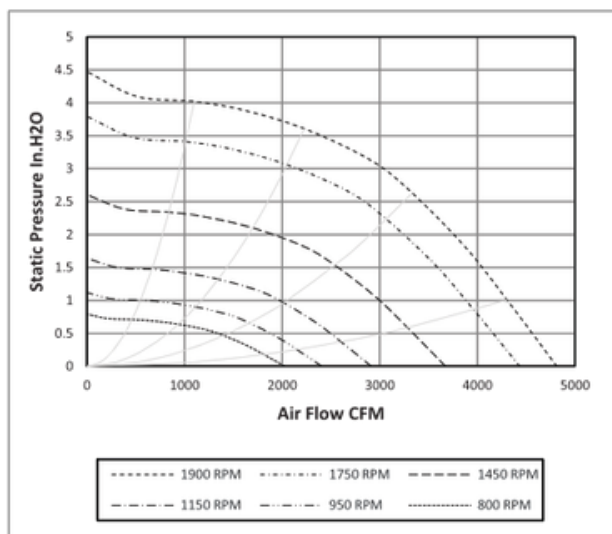
|   | RPM  | 0.000" Pst |       | 0.750" Pst |       | 1.000" Pst |       | 1.250" Pst |       | 1.500" Pst |       | 2.000" Pst |       | 2.500" Pst |       | 3.000" Pst |       | 3.500" Pst |       |
|---|------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|   |      | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       |
|   |      | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones |
| 3 | 2100 | 4000       |       | 3500       |       | 3350       |       | 3200       |       | 3010       |       | 2660       |       | 2172       |       | 1252       |       | -          |       |
|   |      | 1.93       | 22    | 1.90       | 21    | 1.95       | 21    | 2.00       | 21    | 2.00       | 22    | 2.10       | 22    | 2.10       | 22    | 1.80       | 22    | -          | -     |
|   | 2200 | 4210       |       | 3750       |       | 3600       |       | 3450       |       | 3275       |       | 2775       |       | 2560       |       | 1950       |       | -          |       |
|   |      | 2.30       | 25    | 2.17       | 23    | 2.23       | 23    | 2.22       | 23    | 2.30       | 24    | 2.40       | 24    | 2.40       | 24    | 2.30       | 24    | -          | -     |
|   | 2300 | 4390       |       | 3950       |       | 3825       |       | 3685       |       | 3530       |       | 3375       |       | 2875       |       | 2420       |       | 1630       |       |
|   |      | 2.55       | 27    | 2.45       | 24    | 2.55       | 24    | 2.60       | 24    | 2.60       | 25    | 2.65       | 25    | 2.70       | 25    | 2.70       | 25    | 2.50       | 24    |
| 4 | 2400 | 4575       |       | 4150       |       | 4000       |       | 3900       |       | 3775       |       | 3400       |       | 3150       |       | 2775       |       | 2250       |       |
|   |      | 3.30       | 29    | 2.90       | 26    | 2.90       | 26    | 3.00       | 26    | 3.10       | 26    | 3.10       | 26    | 3.10       | 26    | 3.20       | 26    | 3.10       | 26    |

Performance is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of appurtenances (belt tube and bearing cover). The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type A: free outlet hemispherical sone levels. Model SQ13BHP is not licensed to bear the AMCA Certified Rating Seal.

# BELT DRIVE FAN DATA

## SQ- INLINE FAN SERIES

### ➤ SQ15B



| A                        | B   | C   | D   | H    | h   |
|--------------------------|-----|-----|-----|------|-----|
| 711                      | 711 | 838 | 653 | 1101 | 390 |
| Damper Size - 711x 711mm |     |     |     |      |     |
| Fan Weight - 98kg        |     |     |     |      |     |

All dimensions are in mm

| HP  | RPM  | 0.000" Pst |       | 0.250" Pst |       | 0.375" Pst |       | 0.500" Pst |       | 0.625" Pst |       | 1.000" Pst |       | 1.500" Pst |       | 2.000" Pst |       | 3.000" Pst |       |
|-----|------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|     |      | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       |
|     |      | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones |
| 1/4 | 600  | 1521       |       | 1089       |       | 650        |       | -          |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|     |      | 0.10       | 7.5   | 0.11       | 5.1   | 0.10       | 4.5   | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
|     | 700  | 1774       |       | 1430       |       | 1204       |       | 819        |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|     |      | 0.16       | 9.5   | 0.17       | 7.5   | 0.17       | 6.3   | 0.15       | 5.9   | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
| 1/3 | 800  | 2028       |       | 1729       |       | 1559       |       | 1356       |       | 1030       |       | -          |       | -          |       | -          |       | -          |       |
|     |      | 0.24       | 11.5  | 0.25       | 9.4   | 0.25       | 8.5   | 0.25       | 7.8   | 0.23       | 7.3   | -          | -     | -          | -     | -          | -     | -          | -     |
| 1/2 | 900  | 2281       |       | 2018       |       | 1880       |       | 1719       |       | 1539       |       | -          |       | -          |       | -          |       | -          |       |
|     |      | 0.34       | 14.0  | 0.35       | 12.0  | 0.35       | 11.1  | 0.35       | 10.2  | 0.35       | 9.4   | -          | -     | -          | -     | -          | -     | -          | -     |
|     | 950  | 2408       |       | 2160       |       | 2030       |       | 1889       |       | 1727       |       | -          |       | -          |       | -          |       | -          |       |
|     |      | 0.40       | 15.3  | 0.41       | 13.3  | 0.41       | 12.4  | 0.41       | 11.6  | 0.41       | 10.7  | -          | -     | -          | -     | -          | -     | -          | -     |
| 3/4 | 1000 | 2534       |       | 2299       |       | 2177       |       | 2053       |       | 1901       |       | 1225       |       | -          |       | -          |       | -          |       |
|     |      | 0.47       | 16.7  | 0.48       | 14.8  | 0.48       | 13.9  | 0.48       | 13.0  | 0.48       | 12.1  | 0.44       | 10.4  | -          | -     | -          | -     | -          | -     |
|     | 1100 | 2788       |       | 2574       |       | 2465       |       | 2353       |       | 2238       |       | 1785       |       | -          |       | -          |       | -          |       |
|     |      | 0.62       | 19.5  | 0.63       | 17.7  | 0.64       | 16.8  | 0.64       | 16.0  | 0.64       | 15.3  | 0.63       | 12.7  | -          | -     | -          | -     | -          | -     |
| 1   | 1150 | 2915       |       | 2710       |       | 2607       |       | 2500       |       | 2392       |       | 1995       |       | -          |       | -          |       | -          |       |
|     |      | 0.71       | 21.2  | 0.72       | 19.2  | 0.73       | 18.4  | 0.73       | 17.6  | 0.73       | 16.8  | 0.73       | 14.2  | -          | -     | -          | -     | -          | -     |
|     | 1200 | 3041       |       | 2845       |       | 2747       |       | 2645       |       | 2542       |       | 2178       |       | 1299       |       | -          |       | -          |       |
|     |      | 0.80       | 22.8  | 0.82       | 21.0  | 0.82       | 20.1  | 0.83       | 19.2  | 0.83       | 18.4  | 0.83       | 15.8  | 0.73       | 14.1  | -          | -     | -          | -     |

Performance certified is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of appurtenances (belt tube and bearing cover). The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type A: free outlet hemispherical sone levels.

### ➤ SQ15B

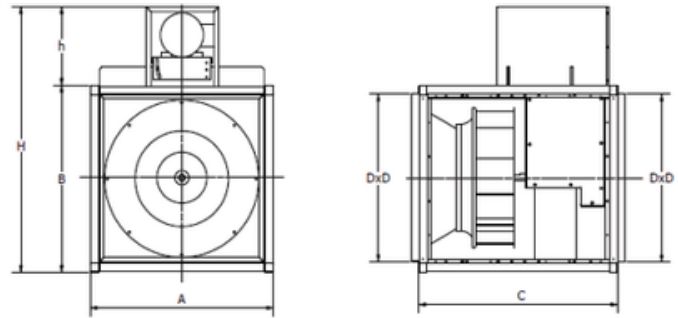
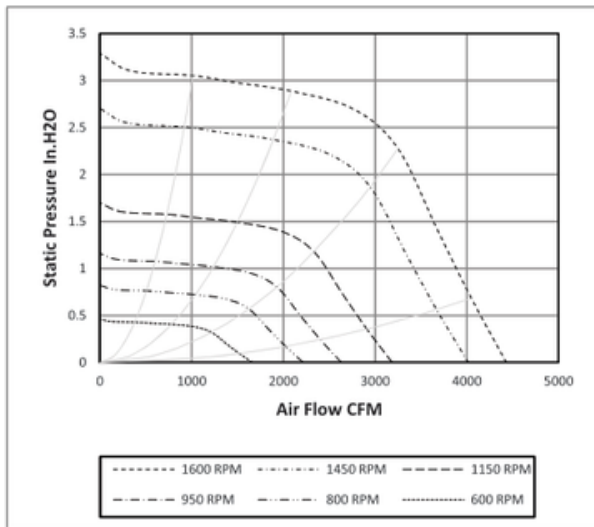
| HP    | RPM  | 0.000" Pst |       | 0.250" Pst |       | 0.375" Pst |       | 0.500" Pst |       | 0.625" Pst |       | 1.000" Pst |       | 1.500" Pst |       | 2.000" Pst |       | 3.000" Pst |       |
|-------|------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|       |      | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       |
|       |      | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones |
| 1 1/2 | 1300 | 3295       |       | 3113       |       | 3023       |       | 2932       |       | 2836       |       | 2524       |       | 1979       |       | -          |       | -          |       |
|       |      | 1.02       | 26.3  | 1.03       | 24.3  | 1.04       | 23.5  | 1.05       | 22.7  | 1.05       | 21.9  | 1.05       | 19.3  | 1.03       | 16.1  | -          | -     | -          | -     |
|       | 1400 | 3548       |       | 3380       |       | 3296       |       | 3212       |       | 3125       |       | 2859       |       | 2408       |       | 1639       |       | -          |       |
|       |      | 1.27       | 28.6  | 1.29       | 26.8  | 1.29       | 25.9  | 1.30       | 25.1  | 1.31       | 24.4  | 1.32       | 22.3  | 1.31       | 19.1  | 1.19       | 18.1  | -          | -     |
| 2     | 1450 | 3675       |       | 3512       |       | 3431       |       | 3350       |       | 3268       |       | 3011       |       | 2598       |       | 1963       |       | -          |       |
|       |      | 1.41       | 29.8  | 1.43       | 28.0  | 1.44       | 27.2  | 1.44       | 26.4  | 1.45       | 25.7  | 1.46       | 23.6  | 1.46       | 20.6  | 1.38       | 19.1  | -          | -     |
| 3     | 1600 | 4055       |       | 3908       |       | 3834       |       | 3761       |       | 3687       |       | 3458       |       | 3118       |       | 2712       |       | -          |       |
|       |      | 1.89       | 34.2  | 1.91       | 32.5  | 1.92       | 31.8  | 1.93       | 31.0  | 1.94       | 30.2  | 1.96       | 28.0  | 1.96       | 25.5  | 1.94       | 23.2  | -          | -     |
|       | 1700 | 4308       |       | 4170       |       | 4101       |       | 4031       |       | 3962       |       | 3749       |       | 3453       |       | 3091       |       | 1866       |       |
|       |      | 2.27       | 38.0  | 2.29       | 36.3  | 2.30       | 35.4  | 2.31       | 34.6  | 2.32       | 33.9  | 2.34       | 31.8  | 2.36       | 29.1  | 2.34       | 26.6  | 2.07       | 24.8  |

Performance certified is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of appurtenances (belt tube and bearing cover). The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type A: free outlet hemispherical sone levels.

# BELT DRIVE FAN DATA

## SQ- INLINE FAN SERIES

### ➤ SQ16B



| A                        | B   | C   | D   | H    | h   |
|--------------------------|-----|-----|-----|------|-----|
| 711                      | 711 | 838 | 653 | 1101 | 390 |
| Damper Size - 711x 711mm |     |     |     |      |     |
| Fan Weight - 105kg       |     |     |     |      |     |

All dimensions are in mm

| HP    | RPM  | 0.000" Pst |       | 0.250" Pst |       | 0.375" Pst |       | 0.500" Pst |       | 0.625" Pst |       | 1.000" Pst |       | 1.500" Pst |       | 2.000" Pst |       | 2.500" Pst |       |
|-------|------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|       |      | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       |
|       |      | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones |
| 1/4   | 500  | 1385       |       | 932        |       | -          |       | -          |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|       |      | 0.08       | 5.7   | 0.09       | 4.6   | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
|       | 600  | 1662       |       | 1319       |       | 1073       |       | -          |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|       |      | 0.13       | 7.7   | 0.15       | 6.7   | 0.15       | 6.2   | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
| 1/3   | 700  | 1939       |       | 1640       |       | 1500       |       | 1279       |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|       |      | 0.20       | 9.9   | 0.22       | 8.8   | 0.24       | 8.4   | 0.24       | 8.0   | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
| 1/2   | 800  | 2216       |       | 1950       |       | 1826       |       | 1704       |       | 1525       |       | -          |       | -          |       | -          |       | -          |       |
|       |      | 0.30       | 12.2  | 0.32       | 11.3  | 0.34       | 10.8  | 0.35       | 10.3  | 0.36       | 9.9   | -          | -     | -          | -     | -          | -     | -          | -     |
| 3/4   | 900  | 2493       |       | 2253       |       | 2142       |       | 2032       |       | 1924       |       | -          |       | -          |       | -          |       | -          |       |
|       |      | 0.42       | 14.5  | 0.45       | 13.6  | 0.46       | 13.2  | 0.48       | 12.8  | 0.50       | 12.3  | -          | -     | -          | -     | -          | -     | -          | -     |
|       | 950  | 2631       |       | 2402       |       | 2297       |       | 2192       |       | 2089       |       | -          |       | -          |       | -          |       | -          |       |
|       |      | 0.49       | 15.8  | 0.52       | 14.9  | 0.54       | 14.4  | 0.56       | 14.0  | 0.58       | 13.6  | -          | -     | -          | -     | -          | -     | -          | -     |
| 1     | 1000 | 2770       |       | 2551       |       | 2450       |       | 2350       |       | 2252       |       | 1864       |       | -          |       | -          |       | -          |       |
|       |      | 0.57       | 17.1  | 0.60       | 16.2  | 0.62       | 15.7  | 0.64       | 15.3  | 0.66       | 14.9  | 0.70       | 13.7  | -          | -     | -          | -     | -          | -     |
| 1 1/2 | 1100 | 3047       |       | 2848       |       | 2752       |       | 2661       |       | 2571       |       | 2304       |       | -          |       | -          |       | -          |       |
|       |      | 0.76       | 19.6  | 0.79       | 18.8  | 0.81       | 18.4  | 0.83       | 18.0  | 0.86       | 17.6  | 0.93       | 16.4  | -          | -     | -          | -     | -          | -     |
|       | 1150 | 3185       |       | 2995       |       | 2901       |       | 2815       |       | 2728       |       | 2472       |       | -          |       | -          |       | -          |       |
|       |      | 0.87       | 20.8  | 0.90       | 20.0  | 0.92       | 19.6  | 0.94       | 19.3  | 0.97       | 18.9  | 1.04       | 17.7  | -          | -     | -          | -     | -          | -     |

Performance certified is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of appurtenances (belt tube and bearing cover). The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type A: free outlet hemispherical sone levels.

### ➤ SQ16B

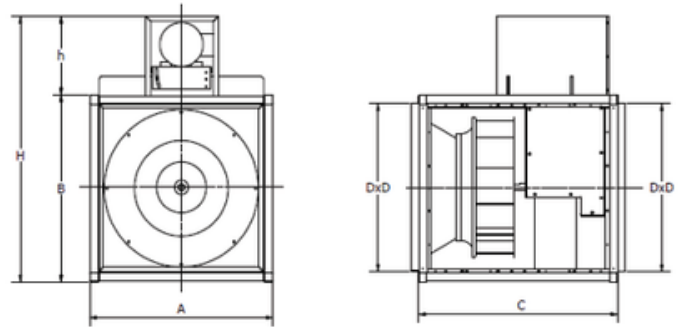
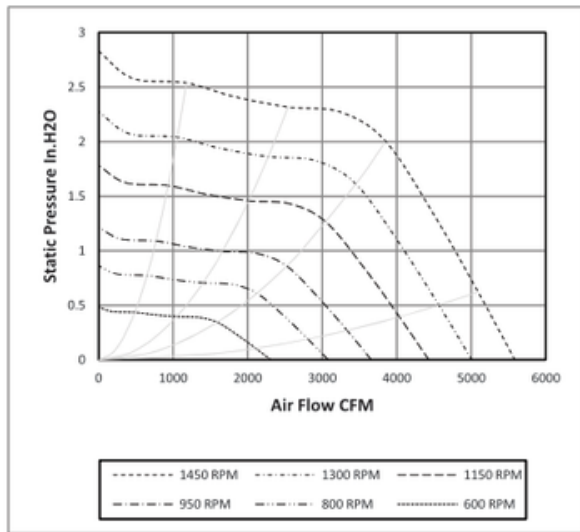
| HP    | RPM  | 0.000" Pst |       | 0.250" Pst |       | 0.375" Pst |       | 0.500" Pst |       | 0.625" Pst |       | 1.000" Pst |       | 1.500" Pst |       | 2.000" Pst |       | 2.500" Pst |       |
|-------|------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|       |      | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       |
|       |      | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones |
| 1 1/2 | 1200 | 3324       |       | 3142       |       | 3051       |       | 2967       |       | 2884       |       | 2637       |       | 2147       |       | -          |       | -          |       |
|       |      | 0.99       | 22.2  | 1.02       | 21.4  | 1.04       | 21.0  | 1.06       | 20.6  | 1.09       | 20.3  | 1.16       | 19.2  | 1.19       | 17.8  | -          | -     | -          | -     |
| 2     | 1300 | 3601       |       | 3433       |       | 3349       |       | 3267       |       | 3190       |       | 2961       |       | 2661       |       | -          |       | -          |       |
|       |      | 1.25       | 24.9  | 1.29       | 24.1  | 1.31       | 23.8  | 1.33       | 23.4  | 1.36       | 23.1  | 1.44       | 22.0  | 1.55       | 20.7  | -          | -     | -          | -     |
|       | 1400 | 3878       |       | 3722       |       | 3644       |       | 3566       |       | 3493       |       | 3279       |       | 2999       |       | 2559       |       | -          |       |
|       |      | 1.56       | 27.7  | 1.60       | 27.0  | 1.62       | 26.6  | 1.64       | 26.3  | 1.67       | 25.9  | 1.76       | 24.9  | 1.87       | 23.6  | 1.89       | 22.4  | -          | -     |
| 3     | 1450 | 4016       |       | 3865       |       | 3790       |       | 3715       |       | 3642       |       | 3436       |       | 3165       |       | 2831       |       | -          |       |
|       |      | 1.73       | 29.2  | 1.78       | 28.5  | 1.80       | 28.1  | 1.82       | 27.8  | 1.84       | 27.5  | 1.93       | 26.4  | 2.06       | 25.1  | 2.13       | 23.9  | -          | -     |
|       | 1500 | 4155       |       | 4009       |       | 3936       |       | 3863       |       | 3791       |       | 3592       |       | 3329       |       | 3069       |       | 2290       |       |
|       |      | 1.92       | 30.7  | 1.96       | 30.0  | 1.98       | 29.7  | 2.01       | 29.3  | 2.03       | 29.0  | 2.12       | 28.0  | 2.25       | 26.7  | 2.37       | 25.4  | 2.13       | 24.0  |
| 4     | 1600 | 4432       |       | 4295       |       | 4227       |       | 4159       |       | 4090       |       | 3900       |       | 3652       |       | 3408       |       | 3051       |       |
|       |      | 2.33       | 34.1  | 2.37       | 33.3  | 2.40       | 32.9  | 2.42       | 32.6  | 2.44       | 32.2  | 2.54       | 31.2  | 2.67       | 29.9  | 2.81       | 28.6  | 2.85       | 27.4  |

Performance certified is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of appurtenances (belt tube and bearing cover). The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type A: free outlet hemispherical sone levels.

# BELT DRIVE FAN DATA

## SQ- INLINE FAN SERIES

### ➤ SQ20B



| A                         | B   | C   | D   | H    | h   |
|---------------------------|-----|-----|-----|------|-----|
| 711                       | 711 | 838 | 653 | 1101 | 390 |
| Damper Size - 711 x 711mm |     |     |     |      |     |
| Fan Weight - 145kg        |     |     |     |      |     |

All dimensions are in mm

| HP    | RPM  | 0.000" Pst |       | 0.250" Pst |       | 0.375" Pst |       | 0.500" Pst |       | 0.625" Pst |       | 1.000" Pst |       | 1.500" Pst |       | 2.000" Pst |       | 2.500" Pst |       |
|-------|------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|       |      | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       |
|       |      | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones |
| 1/4   | 500  | 1926       |       | 1285       |       | -          |       | -          |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|       |      | 0.10       | 6.2   | 0.12       | 5.8   | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
| 1/3   | 600  | 2311       |       | 1810       |       | 1420       |       | -          |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|       |      | 0.17       | 8.4   | 0.21       | 8.0   | 0.21       | 7.7   | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
| 1/2   | 700  | 2697       |       | 2285       |       | 2058       |       | 1753       |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|       |      | 0.27       | 11.1  | 0.31       | 10.5  | 0.33       | 10.1  | 0.33       | 9.8   | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
| 3/4   | 800  | 3082       |       | 2726       |       | 2540       |       | 2334       |       | 2116       |       | -          |       | -          |       | -          |       | -          |       |
|       |      | 0.41       | 13.6  | 0.45       | 13.0  | 0.47       | 12.7  | 0.49       | 12.3  | 0.50       | 12.1  | -          | -     | -          | -     | -          | -     | -          | -     |
| 1     | 900  | 3467       |       | 3154       |       | 2989       |       | 2824       |       | 2638       |       | -          |       | -          |       | -          |       | -          |       |
|       |      | 0.58       | 16.3  | 0.62       | 15.7  | 0.65       | 15.4  | 0.67       | 15.1  | 0.69       | 14.7  | -          | -     | -          | -     | -          | -     | -          | -     |
|       | 950  | 3660       |       | 3363       |       | 3209       |       | 3052       |       | 2887       |       | 2018       |       | -          |       | -          |       | -          |       |
|       |      | 0.68       | 17.8  | 0.72       | 17.1  | 0.75       | 16.8  | 0.78       | 16.4  | 0.80       | 16.0  | 0.75       | 15.4  | -          | -     | -          | -     | -          | -     |
| 1 1/2 | 1000 | 3852       |       | 3571       |       | 3426       |       | 3277       |       | 3128       |       | 2569       |       | -          |       | -          |       | -          |       |
|       |      | 0.79       | 19.2  | 0.84       | 18.5  | 0.87       | 18.2  | 0.90       | 18.0  | 0.92       | 17.7  | 0.96       | 16.7  | -          | -     | -          | -     | -          | -     |
|       | 1100 | 4238       |       | 3982       |       | 3853       |       | 3718       |       | 3583       |       | 3142       |       | -          |       | -          |       | -          |       |
|       |      | 1.05       | 22.2  | 1.10       | 21.5  | 1.13       | 21.2  | 1.16       | 20.9  | 1.20       | 20.7  | 1.27       | 19.9  | -          | -     | -          | -     | -          | -     |
| 2     | 1150 | 4430       |       | 4185       |       | 4063       |       | 3935       |       | 3806       |       | 3395       |       | -          |       | -          |       | -          |       |
|       |      | 1.20       | 23.7  | 1.26       | 23.0  | 1.28       | 22.8  | 1.32       | 22.5  | 1.35       | 22.3  | 1.43       | 21.5  | -          | -     | -          | -     | -          | -     |

Performance certified is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of appurtenances (belt tube and bearing cover). The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type A: free outlet hemispherical sone levels.

### ➤ SQ20B

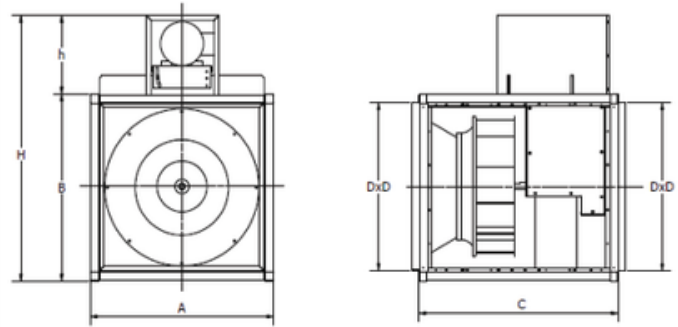
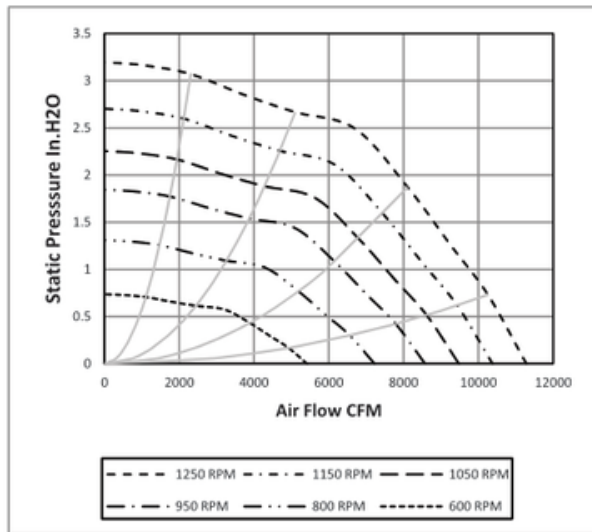
| HP | RPM  | 0.000" Pst |       | 0.250" Pst |       | 0.375" Pst |       | 0.500" Pst |       | 0.625" Pst |       | 1.000" Pst |       | 1.500" Pst |       | 2.000" Pst |       | 2.500" Pst |       |
|----|------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|    |      | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       |
|    |      | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones |
| 2  | 1200 | 4623       |       | 4388       |       | 4271       |       | 4150       |       | 4026       |       | 3644       |       | 2923       |       | -          |       | -          |       |
|    |      | 1.36       | 25.3  | 1.42       | 24.6  | 1.45       | 24.4  | 1.48       | 24.1  | 1.52       | 23.9  | 1.61       | 23.1  | 1.62       | 22.0  | -          | -     | -          | -     |
| 3  | 1300 | 5008       |       | 4792       |       | 4683       |       | 4575       |       | 4461       |       | 4118       |       | 3605       |       | -          |       | -          |       |
|    |      | 1.73       | 28.7  | 1.80       | 28.1  | 1.83       | 27.8  | 1.86       | 27.6  | 1.90       | 27.3  | 2.01       | 26.5  | 2.10       | 25.4  | -          | -     | -          | -     |
|    | 1400 | 5393       |       | 5192       |       | 5092       |       | 4991       |       | 4889       |       | 4571       |       | 4116       |       | 3505       |       | -          |       |
|    |      | 2.16       | 32.6  | 2.23       | 31.9  | 2.26       | 31.6  | 2.30       | 31.2  | 2.33       | 30.9  | 2.46       | 30.1  | 2.58       | 28.9  | 2.59       | 27.9  | -          | -     |
| 4  | 1450 | 5586       |       | 5392       |       | 5295       |       | 5198       |       | 5101       |       | 4794       |       | 4356       |       | 3894       |       | 1375       |       |
|    |      | 2.40       | 34.4  | 2.47       | 33.8  | 2.51       | 33.4  | 2.54       | 33.1  | 2.58       | 32.8  | 2.70       | 31.9  | 2.85       | 30.7  | 2.94       | 29.7  | 1.91       | 27.7  |

Performance certified is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of appurtenances (belt tube and bearing cover). The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type A: free outlet hemispherical sone levels.

# BELT DRIVE FAN DATA

## SQ- INLINE FAN SERIES

### ➤ SQ22B



| A                          | B   | C   | D   | H    | h   |
|----------------------------|-----|-----|-----|------|-----|
| 845                        | 845 | 914 | 762 | 1308 | 463 |
| Damper Size - 844 x 844 mm |     |     |     |      |     |
| Fan Weight - 175kg         |     |     |     |      |     |

All dimensions are in mm

| HP    | RPM | 0.000" Pst |       | 0.125" Pst |       | 0.250" Pst |       | 0.375" Pst |       | 0.500" Pst |       | 0.625" Pst |       | 1.000" Pst |       | 1.500" Pst |       | 2.000" Pst |       |
|-------|-----|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|       |     | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       |
|       |     | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones |
| 1/2   | 400 | 3612       |       | 3000       |       | 2217       |       | -          |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|       |     | 0.18       | 8.5   | 0.19       | 12.0  | 0.17       | 6.9   | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
|       | 450 | 4063       |       | 3546       |       | 2905       |       | 1384       |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|       |     | 0.25       | 9.7   | 0.26       | 12.7  | 0.26       | 10.2  | 0.17       | 6.3   | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
|       | 500 | 4514       |       | 4077       |       | 3499       |       | 2858       |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|       |     | 0.34       | 11.4  | 0.36       | 13.6  | 0.35       | 13.6  | 0.34       | 9.7   | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
| 3/4   | 550 | 4966       |       | 4574       |       | 4068       |       | 3542       |       | 2794       |       | -          |       | -          |       | -          |       | -          |       |
|       |     | 0.45       | 12.9  | 0.47       | 14.7  | 0.47       | 16.9  | 0.46       | 13.2  | 0.43       | 10.2  | -          | -     | -          | -     | -          | -     | -          | -     |
|       | 600 | 5417       |       | 5058       |       | 4621       |       | 4141       |       | 3615       |       | 2488       |       | -          |       | -          |       | -          |       |
|       |     | 0.59       | 14.6  | 0.61       | 16.0  | 0.61       | 17.8  | 0.61       | 16.4  | 0.59       | 13.5  | 0.48       | 10.6  | -          | -     | -          | -     | -          | -     |
| 1     | 650 | 5869       |       | 5537       |       | 5161       |       | 4716       |       | 4275       |       | 3753       |       | -          |       | -          |       | -          |       |
|       |     | 0.75       | 16.2  | 0.77       | 17.4  | 0.78       | 18.9  | 0.78       | 19.6  | 0.76       | 16.6  | 0.74       | 14.3  | -          | -     | -          | -     | -          | -     |
| 1 1/2 | 700 | 6320       |       | 6012       |       | 5691       |       | 5276       |       | 4866       |       | 4439       |       | -          |       | -          |       | -          |       |
|       |     | 0.93       | 17.8  | 0.95       | 18.9  | 0.97       | 20.2  | 0.97       | 21.6  | 0.96       | 19.8  | 0.94       | 17.4  | -          | -     | -          | -     | -          | -     |
|       | 750 | 6772       |       | 6484       |       | 6197       |       | 5825       |       | 5439       |       | 5057       |       | 2815       |       | -          |       | -          |       |
|       |     | 1.15       | 19.5  | 1.17       | 20.4  | 1.19       | 21.5  | 1.19       | 22.7  | 1.19       | 22.8  | 1.18       | 20.5  | 0.88       | 14.1  | -          | -     | -          | -     |

Performance certified is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of appurtenances (belt tube and bearing cover). The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type A: free outlet hemispherical sone levels.

### ➤ SQ22B

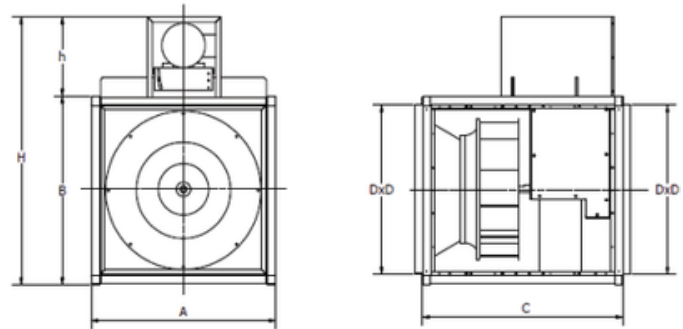
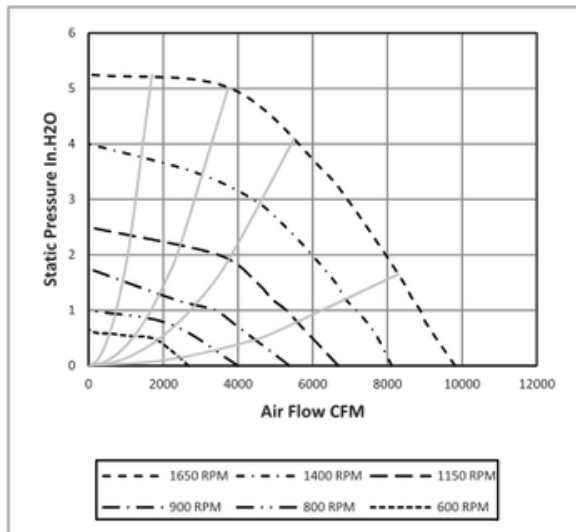
| HP    | RPM  | 0.000" Pst |       | 0.125" Pst |       | 0.250" Pst |       | 0.375" Pst |       | 0.500" Pst |       | 0.625" Pst |       | 1.000" Pst |       | 1.500" Pst |       | 2.000" Pst |       |
|-------|------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|       |      | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       |
|       |      | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones |
| 2     | 800  | 7223       |       | 6954       |       | 6684       |       | 6363       |       | 6000       |       | 5641       |       | 4434       |       | -          |       | -          |       |
|       |      | 1.39       | 21.2  | 1.41       | 22.1  | 1.43       | 22.9  | 1.45       | 24.0  | 1.45       | 25.2  | 1.44       | 23.5  | 1.36       | 18.2  | -          | -     | -          | -     |
|       | 850  | 7675       |       | 7421       |       | 7167       |       | 6893       |       | 6551       |       | 6211       |       | 5133       |       | -          |       | -          |       |
|       |      | 1.67       | 23.0  | 1.69       | 23.7  | 1.71       | 24.5  | 1.73       | 25.4  | 1.74       | 26.5  | 1.73       | 26.8  | 1.67       | 21.1  | -          | -     | -          | -     |
| 3     | 900  | 8126       |       | 7886       |       | 7647       |       | 7407       |       | 7093       |       | 6771       |       | 5810       |       | 2768       |       | -          |       |
|       |      | 1.98       | 24.8  | 2.00       | 25.4  | 2.03       | 26.1  | 2.05       | 26.9  | 2.06       | 27.8  | 2.06       | 28.7  | 2.01       | 24.2  | 1.34       | 17.5  | -          | -     |
|       | 950  | 8577       |       | 8350       |       | 8124       |       | 7897       |       | 7626       |       | 7321       |       | 6413       |       | 4729       |       | -          |       |
|       |      | 2.32       | 26.6  | 2.35       | 27.2  | 2.38       | 27.8  | 2.40       | 28.6  | 2.42       | 29.3  | 2.42       | 30.1  | 2.38       | 27.4  | 2.15       | 21.9  | -          | -     |
| 4     | 1000 | 9029       |       | 8813       |       | 8598       |       | 8382       |       | 8153       |       | 7863       |       | 6998       |       | 5717       |       | -          |       |
|       |      | 2.71       | 28.5  | 2.74       | 29.0  | 2.76       | 29.6  | 2.79       | 30.3  | 2.82       | 30.9  | 2.82       | 31.5  | 2.80       | 30.5  | 2.70       | 25.2  | -          | -     |
|       | 1050 | 9480       |       | 9275       |       | 9070       |       | 8864       |       | 8659       |       | 8398       |       | 7571       |       | 6410       |       | 3592       |       |
|       |      | 3.13       | 30.4  | 3.16       | 30.9  | 3.19       | 31.5  | 3.22       | 32.0  | 3.25       | 32.5  | 3.26       | 33.1  | 3.26       | 33.5  | 3.15       | 28.2  | 2.27       | 22.5  |
| 5     | 1100 | 9932       |       | 9736       |       | 9540       |       | 9344       |       | 9148       |       | 8926       |       | 8135       |       | 7085       |       | 5589       |       |
|       |      | 3.60       | 32.4  | 3.63       | 32.8  | 3.67       | 33.3  | 3.70       | 33.7  | 3.73       | 34.2  | 3.75       | 34.8  | 3.76       | 36.4  | 3.67       | 31.3  | 3.38       | 26.9  |
|       | 1150 | 10383      |       | 10196      |       | 10008      |       | 9821       |       | 9633       |       | 9446       |       | 8693       |       | 7694       |       | 6535       |       |
|       |      | 4.12       | 34.4  | 4.15       | 34.7  | 4.18       | 35.1  | 4.21       | 35.6  | 4.25       | 36.0  | 4.28       | 36.5  | 4.30       | 38.0  | 4.22       | 34.3  | 4.06       | 30.3  |
| 7 1/2 | 1200 | 10835      |       | 10655      |       | 10475      |       | 10296      |       | 10116      |       | 9936       |       | 9242       |       | 8283       |       | 7231       |       |
|       |      | 4.68       | 36.4  | 4.71       | 36.8  | 4.74       | 37.1  | 4.78       | 37.5  | 4.81       | 37.9  | 4.85       | 38.3  | 4.88       | 39.6  | 4.82       | 37.4  | 4.68       | 33.4  |
|       | 1250 | 11286      |       | 11114      |       | 10941      |       | 10769      |       | 10596      |       | 10424      |       | 9785       |       | 8862       |       | 7911       |       |
|       |      | 5.29       | 38.6  | 5.32       | 39.0  | 5.36       | 39.3  | 5.39       | 39.6  | 5.43       | 39.9  | 5.46       | 40.3  | 5.51       | 41.4  | 5.48       | 40.5  | 5.36       | 36.5  |

Performance certified is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of appurtenances (belt tube and bearing cover). The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type A: free outlet hemispherical sone levels.

# BELT DRIVE FAN DATA

## SQ- INLINE FAN SERIES

### ➤ SQ22BHP



| A                         | B   | C   | D   | H    | h   |
|---------------------------|-----|-----|-----|------|-----|
| 845                       | 845 | 914 | 762 | 1308 | 463 |
| Damper Size - 844 x 844mm |     |     |     |      |     |
| Fan Weight - 175kg        |     |     |     |      |     |

All dimensions are in mm

| HP    | RPM  | 0.000" Pst |       | 0.750" Pst |       | 1.000" Pst |       | 1.250" Pst |       | 1.500" Pst |       | 2.000" Pst |       | 2.500" Pst |       | 3.000" Pst |       | 3.500" Pst |       |
|-------|------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|       |      | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       |
|       |      | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones |
| 3/4   | 700  | 4000       |       | 2180       |       | -          |       | -          |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|       |      | 0.65       | 12    | 0.55       | 9     | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
| 1     | 800  | 4950       |       | 3150       |       | 2400       |       | -          |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|       |      | 0.90       | 15    | 0.85       | 11    | 0.80       | 11    | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
| 1 1/2 | 900  | 5375       |       | 3900       |       | 3380       |       | 2275       |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|       |      | 1.30       | 17    | 1.20       | 13    | 1.19       | 13    | 1.10       | 12.5  | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
| 2     | 1000 | 5950       |       | 4650       |       | 4220       |       | 3725       |       | 2420       |       | -          |       | -          |       | -          |       | -          |       |
|       |      | 1.75       | 18    | 1.60       | 15    | 1.60       | 15    | 1.45       | 15    | 1.30       | 15    | -          | -     | -          | -     | -          | -     | -          | -     |
| 3     | 1150 | 6685       |       | 5635       |       | 5300       |       | 4910       |       | 4500       |       | 3475       |       | -          |       | -          |       | -          |       |
|       |      | 2.65       | 21    | 2.40       | 18    | 2.38       | 18    | 2.41       | 18    | 2.38       | 18    | 2.30       | 19    | -          | -     | -          | -     | -          | -     |
| 4     | 1250 | 7325       |       | 6400       |       | 6100       |       | 5775       |       | 5450       |       | 4650       |       | 3625       |       | -          |       | -          |       |
|       |      | 3.55       | 24    | 3.10       | 20    | 3.20       | 20    | 3.15       | 20    | 3.30       | 20    | 3.40       | 21    | 3.12       | 21    | -          | -     | -          | -     |
| 5     | 1400 | 8115       |       | 7750       |       | 7160       |       | 6875       |       | 6605       |       | 5975       |       | 5275       |       | 4400       |       | 2790       |       |
|       |      | 4.95       | 26    | 4.80       | 23    | 4.85       | 25    | 5.00       | 25    | 5.03       | 25    | 5.10       | 25    | 5.10       | 25    | 5.10       | 26    | 5.10       | 26    |
| 7 1/2 | 1550 | 8465       |       | 8235       |       | 8000       |       | 7750       |       | 7500       |       | 6950       |       | 6380       |       | 5710       |       | 4960       |       |
|       |      | 6.60       | 28    | 5.30       | 26    | 5.30       | 26    | 5.70       | 27    | 5.78       | 27    | 5.90       | 27    | 5.95       | 28    | 6.00       | 28    | 5.90       | 28    |

Performance is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of appurtenances (belt tube and bearing cover). The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type A: free outlet hemispherical sone levels. Model SQ22BHP is not licensed to bear the AMCA Certified Rating Seal.

### ➤ SQ22BHP

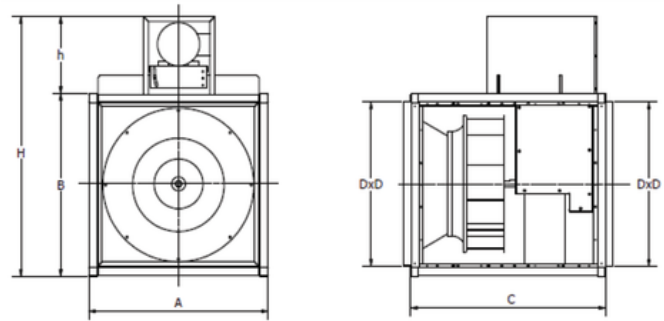
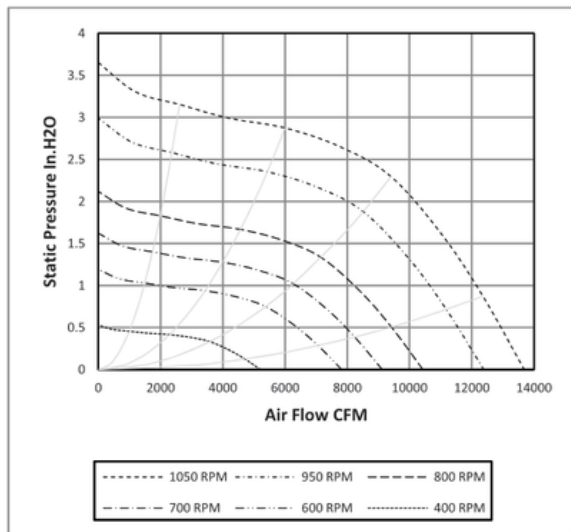
| HP    | RPM  | 0.000" Pst |       | 0.750" Pst |       | 1.000" Pst |       | 1.250" Pst |       | 1.500" Pst |       | 2.000" Pst |       | 2.500" Pst |       | 3.000" Pst |       | 3.500" Pst |       |
|-------|------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|       |      | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       |
|       |      | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones |
| 7 1/2 | 1600 | 9350       |       | 8750       |       | 8500       |       | 8325       |       | 8050       |       | 7605       |       | 7050       |       | 6500       |       | 5855       |       |
|       |      | 7.30       | 32    | 6.50       | 29    | 6.60       | 29    | 6.7        | 29    | 6.80       | 29    | 6.90       | 29    | 7.10       | 30    | 7.00       | 30    | 7.10       | 30    |
| 10    | 1650 | 9810       |       | 9050       |       | 8875       |       | 8670       |       | 8430       |       | 7950       |       | 7450       |       | 6925       |       | 6310       |       |
|       |      | 8.20       | 33    | 7.00       | 30    | 7.20       | 30    | 7.3        | 30    | 7.40       | 30    | 7.60       | 30    | 7.50       | 31    | 7.40       | 31    | 7.20       | 31    |

Performance is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of appurtenances (belt tube and bearing cover). The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type A: free outlet hemispherical sone levels. Model SQ22BHP is not licensed to bear the AMCA Certified Rating Seal.

# BELT DRIVE FAN DATA

## SQ- INLINE FAN SERIES

### ➤ SQ27B



| A                           | B    | C    | D   | H    | h   |
|-----------------------------|------|------|-----|------|-----|
| 1029                        | 1029 | 1120 | 946 | 1555 | 526 |
| Damper Size - 1022 x 1022mm |      |      |     |      |     |
| Fan Weight - 190kg          |      |      |     |      |     |

All dimensions are in mm

| HP    | RPM | 0.000" Pst |       | 0.250" Pst |       | 0.375" Pst |       | 0.500" Pst |       | 0.625" Pst |       | 1.000" Pst |       | 1.500" Pst |       | 2.000" Pst |       | 2.500" Pst |       |
|-------|-----|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|       |     | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       |
|       |     | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones |
| 1/2   | 400 | 5216       |       | 4133       |       | 3169       |       | -          |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|       |     | 0.34       | 7.4   | 0.40       | 6.3   | 0.38       | 6.3   | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
| 3/4   | 450 | 5868       |       | 4943       |       | 4332       |       | 3276       |       | -          |       | -          |       | -          |       | -          |       | -          |       |
|       |     | 0.48       | 8.9   | 0.55       | 7.9   | 0.57       | 7.4   | 0.53       | 7.7   | -          | -     | -          | -     | -          | -     | -          | -     | -          | -     |
| 1     | 500 | 6520       |       | 5709       |       | 5242       |       | 4633       |       | 3514       |       | -          |       | -          |       | -          |       | -          |       |
|       |     | 0.66       | 10.5  | 0.74       | 9.5   | 0.77       | 9.0   | 0.78       | 8.5   | 0.72       | 9.1   | -          | -     | -          | -     | -          | -     | -          | -     |
| 1 1/2 | 550 | 7171       |       | 6457       |       | 6036       |       | 5562       |       | 5007       |       | -          |       | -          |       | -          |       | -          |       |
|       |     | 0.88       | 12.2  | 0.97       | 11.2  | 1.00       | 10.7  | 1.03       | 10.2  | 1.03       | 9.8   | -          | -     | -          | -     | -          | -     | -          | -     |
|       | 600 | 7823       |       | 7171       |       | 6805       |       | 6420       |       | 5945       |       | -          |       | -          |       | -          |       | -          |       |
|       |     | 1.14       | 13.9  | 1.24       | 13.0  | 1.28       | 12.5  | 1.32       | 12.0  | 1.33       | 11.6  | -          | -     | -          | -     | -          | -     | -          | -     |
| 2     | 650 | 8475       |       | 7873       |       | 7557       |       | 7201       |       | 6846       |       | 5079       |       | -          |       | -          |       | -          |       |
|       |     | 1.44       | 15.7  | 1.56       | 15.3  | 1.61       | 14.4  | 1.65       | 13.9  | 1.69       | 13.5  | 1.63       | 13.3  | -          | -     | -          | -     | -          | -     |
| 3     | 700 | 9127       |       | 8568       |       | 8288       |       | 7966       |       | 7636       |       | 6416       |       | -          |       | -          |       | -          |       |
|       |     | 1.80       | 17.7  | 1.92       | 17.2  | 1.98       | 16.3  | 2.03       | 15.9  | 2.07       | 15.4  | 2.12       | 14.2  | -          | -     | -          | -     | -          | -     |
| 4     | 750 | 9779       |       | 9257       |       | 8996       |       | 8718       |       | 8410       |       | 7356       |       | -          |       | -          |       | -          |       |
|       |     | 2.22       | 19.6  | 2.34       | 19.2  | 2.41       | 18.3  | 2.47       | 17.9  | 2.51       | 17.5  | 2.60       | 16.3  | -          | -     | -          | -     | -          | -     |

Performance certified is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of appurtenances (belt tube and bearing cover). The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type A: free outlet hemispherical sone levels.

### ➤ SQ27B

| HP    | RPM  | 0.000" Pst |       | 0.250" Pst |       | 0.375" Pst |       | 0.500" Pst |       | 0.625" Pst |       | 1.000" Pst |       | 1.500" Pst |       | 2.000" Pst |       | 2.500" Pst |       |
|-------|------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|       |      | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       | CFM        |       |
|       |      | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones | BHP        | Sones |
| 4     | 800  | 10431      |       | 9942       |       | 9697       |       | 9452       |       | 9169       |       | 8266       |       | 6339       |       | -          |       | -          |       |
|       |      | 2.69       | 21.6  | 2.82       | 20.8  | 2.89       | 20.4  | 2.96       | 20.0  | 3.02       | 19.6  | 3.15       | 18.4  | 3.05       | 18.4  | -          | -     | -          | -     |
| 5     | 850  | 11083      |       | 10623      |       | 10392      |       | 10162      |       | 9918       |       | 9102       |       | 7718       |       | -          |       | -          |       |
|       |      | 3.22       | 23.6  | 3.37       | 22.8  | 3.44       | 22.4  | 3.51       | 22.0  | 3.58       | 21.7  | 3.74       | 20.7  | 3.79       | 19.4  | -          | -     | -          | -     |
|       | 900  | 11735      |       | 11300      |       | 11083      |       | 10865      |       | 10647      |       | 9886       |       | 8664       |       | 6552       |       | -          |       |
|       |      | 3.82       | 25.7  | 3.98       | 24.9  | 4.06       | 24.6  | 4.13       | 24.3  | 4.21       | 24.0  | 4.38       | 22.9  | 4.49       | 21.7  | 4.22       | 22.9  | -          | -     |
| 7 1/2 | 950  | 12387      |       | 11975      |       | 11769      |       | 11563      |       | 11357      |       | 10658      |       | 9585       |       | 8103       |       | -          |       |
|       |      | 4.50       | 27.9  | 4.66       | 27.2  | 4.74       | 26.9  | 4.82       | 26.6  | 4.91       | 26.2  | 5.10       | 25.3  | 5.27       | 24.0  | 5.22       | 23.5  | -          | -     |
|       | 1000 | 13039      |       | 12647      |       | 12452      |       | 12256      |       | 12060      |       | 11418      |       | 10485      |       | 9266       |       | 7029       |       |
|       |      | 5.24       | 30.3  | 5.42       | 29.7  | 5.50       | 29.3  | 5.59       | 29.0  | 5.67       | 28.7  | 5.90       | 27.7  | 6.14       | 26.4  | 6.17       | 25.2  | 5.70       | 27.5  |
|       | 1050 | 13691      |       | 13318      |       | 13132      |       | 12945      |       | 12759      |       | 12170      |       | 11289      |       | 10205      |       | 8499       |       |
|       |      | 6.07       | 32.8  | 6.25       | 32.1  | 6.34       | 31.8  | 6.43       | 31.5  | 6.52       | 31.2  | 6.77       | 30.2  | 7.03       | 28.9  | 7.13       | 27.6  | 7.00       | 27.9  |

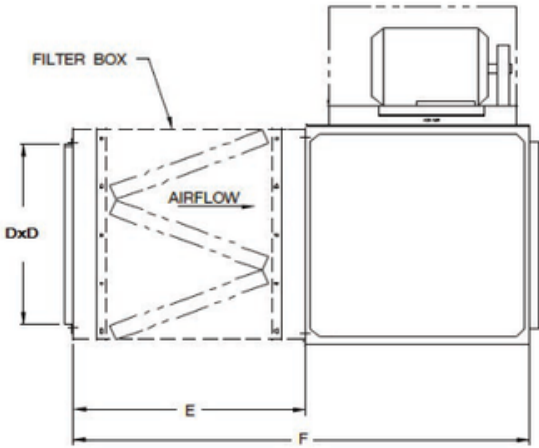
Performance certified is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of appurtenances (belt tube and bearing cover). The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type A: free outlet hemispherical sone levels.

# FILTER BOX DIMENSIONAL DATA

SQ- INLINE FAN SERIES

## FILTER BOX DIMENSIONS

| MODEL      | E   | F    | D   | Weight KG |
|------------|-----|------|-----|-----------|
| FB-SQ10B/D | 675 | 1291 | 330 | 52        |
| FB-SQ12B/D | 800 | 1492 | 478 | 67        |
| FB-SQ13B/D | 800 | 1492 | 478 | 67        |
| FB-SQ15B/D | 815 | 1653 | 634 | 82        |
| FB-SQ16B   | 815 | 1653 | 634 | 95        |
| FB- SQ20B  | 815 | 1653 | 634 | 131       |
| FB- SQ22B  | 840 | 1754 | 769 | 180       |
| FB- SQ27B  | 840 | 1960 | 929 | 258       |
|            |     |      |     |           |
|            |     |      |     |           |



➤ **Notes:** All dimensions are in mm unless otherwise noted.

## FILTER PRESSURE DROP

| Type                 | Aluminum Washable Filter |       | Disposable Filter |     |
|----------------------|--------------------------|-------|-------------------|-----|
| Thickness Inches     | 1"                       | 2"    | 1"                | 2"  |
| Pressure Drop In. WG | 0.015                    | 0.025 | 0.2               | 0.3 |

## MOTOR WEIGHT

| HP | 1/4 | 1/3 | 1/2  | 3/4  | 1  | 1 1/2 | 2  | 3  | 4  | 5  | 7 1/2 | 10 |
|----|-----|-----|------|------|----|-------|----|----|----|----|-------|----|
| KG | 9.5 | 9.5 | 12.5 | 12.5 | 19 | 25    | 27 | 38 | 43 | 45 | 57    | 68 |

### TYPICAL SPECIFICATION

Fans shall be Model SQ Backward Inclined, as manufactured by Energy Twin City.

### PERFORMANCE

Fans shall be certified in accordance with AMCA Publication 211 and AMCA Publication 311 test codes for air moving devices and shall be guaranteed by the manufacturer to deliver rated published performance levels. SQ fans shall be licensed to bear the AMCA certified ratings seal for both sound and air performance.

### HOUSING

Unit exterior shall be constructed of heavy gauge galvanized steel. The fan housing shall be square in shape and readily attachable to building ductwork. Unit side panels shall be removable for easy access for maintenance and service. The power assembly shall be removable as a complete module through the side access panel. Fan housings shall have universal mounting brackets to accommodate horizontal or vertical installations

### IMPELLERS

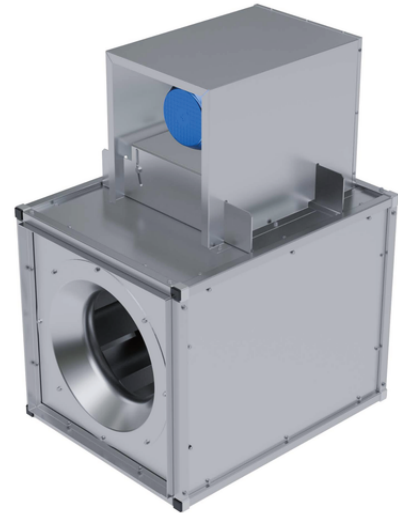
SQ backward inclined impellers shall be single thickness plate type designed for maximum efficiency and quiet operation and shall be of the non-overloading type. Sizes 09 through 42 shall be constructed of aluminum, with blades welded to the spun impeller front plate and back plate.

### SHAFT

Shafts shall be AISI 1045 hot rolled steel, accurately turned, ground, polished, and ring gauged for accuracy. Shafts shall be sized for the first critical speed of at least 1.25 times the maximum speed.

### BEARINGS

Bearings shall be heavy - duty, grease lubricated, anti-friction ball, self-aligning, pillow block type and selected for a minimum average bearing life (AFBMA L-50) in excess of 200,000 hours at the maximum fan RPM.



### DRIVE

Motor sheaves shall be cast iron, and supplied as either variable pitch or fixed pitch. Drives and belts shall be rated for a minimum of 150% of the required motor HP.

### ACCESSORIES

When specified, accessories such as access doors, variable inlet vanes, outlet shutters, inlet screens, etc., shall be provided by Energy Twin City maintain one source responsibility.

### FACTORY RUN TEST

All fans prior to shipment shall be completely assembled and test run as a unit at operating speed or maximum RPM allowed for the particular construction type. Each wheel shall be statically and dynamically balanced in accordance with ANSI/AMCA 204-20 / ISO1940 "Balance Quality and Vibration Levels for Fans" to Fan Application Category BV-3, Balance Quality Grade G6.3. Balance readings shall be taken by electronic type equipment in the axial, vertical and horizontal directions on each of the bearings. Records shall be maintained and a written copy shall be available upon request.

### WARRANTY

The manufacturer shall guarantee the workmanship and materials for its SQ Series models for at least one (1) year from startup or eighteen (18) months from shipment, whichever occurs first.

## Trusted Partners In Advanced Ventilation Solutions



### MIDDLE EAST

PO Box 24021, Sharjah Industrial Area  
United Arab Emirates  
Phone: 971.6534.3488 | Fax: 971.6534.3710  
[energyintl.com](http://energyintl.com)

### UNITED STATES

5959 Trenton Lane, Minneapolis, MN 55442  
Phone: 763.551.7600 | Fax: 763.551.7601  
[careers.tcf.com](http://careers.tcf.com)