



GSD Industrial Co.,Ltd.



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097-3619703

# GRB Series

GRB three-lobe roots blower



GRB roots blower series is a positive displacement blower which can be utilizing in a wide range of applications. Equipped with three lobe rotors type, GRB roots blower provide an excellent air output stability while generated low noise level and low vibration during operating. Additional accessories also available for installation including silencer, flexible joint, etc.

## Application

| Industry                        | Process                                 |
|---------------------------------|-----------------------------------------|
| • Wastewater treatment          | Aeration                                |
| • Brewery and beverage industry | Cleaning process                        |
| • Fire extinguisher             | Spraying fire-resistant material        |
| • Fishery                       | Aeration                                |
| • Incinerator                   | Increase oxygen to promote combustion   |
| • Fermenting plant              | Increase oxygen to promote fermentation |
| • Car washing                   | Cleaning agent spraying                 |
| • Pipe clearing                 | Pipe flushing                           |
| • Paper mill                    | Drying process                          |
| • Electroplate factory          | Stirring gas in liquid                  |
| • Sauna                         | Air circulation system                  |
| • Pneumatic conveying           | Material conveying                      |



*\*Sample Models*



## Features

- Rotors are machined from a cast iron with three lobe type designed for large volume of air output and steady airflow rate with precisely balance for smooth operation.
- Rigid and high-strength body casing is machined from a single piece of cast iron for durability, stability and accurate rotating between rotors.
- Timing gear and single row ball bearing type are installed in an enclose oil reservoir and lubricated by oil splash system to reduce friction tolerance.



- Extended drive shaft is made by high-strength steel for utilizing with V-belt drive installation.
- Available in 15 different sizes.
  - Diameter: 40 – 400 mm
  - Capacity: 0.63 – 283 m<sup>3</sup>/min
  - Pressure: One-stage type, up to 8,000 mmAq (0.8 kgf/cm<sup>2</sup>)
- Oil reservoir and bearing socket are equipped with NBR oil seal and Viton® V-ring to ensure an oil-free air output as well as provided a maximum seal life during continuous high temperature operation.

## Model Description

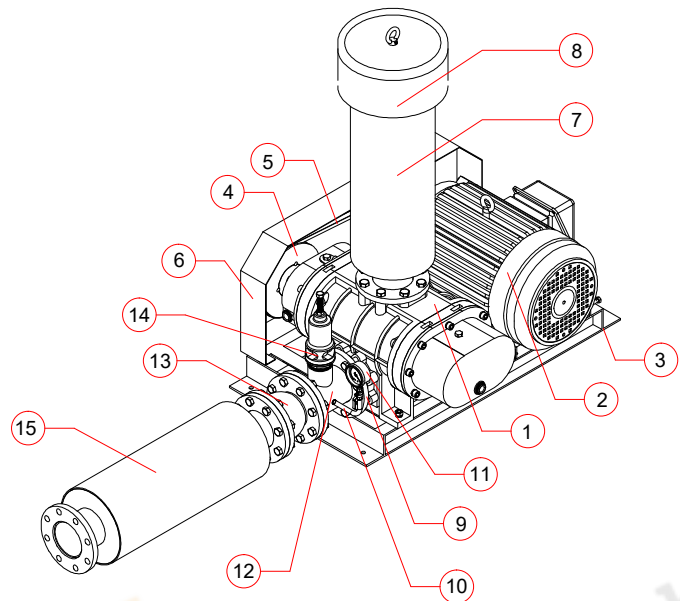
**GRB - 40**

- Discharge diameter (mm)

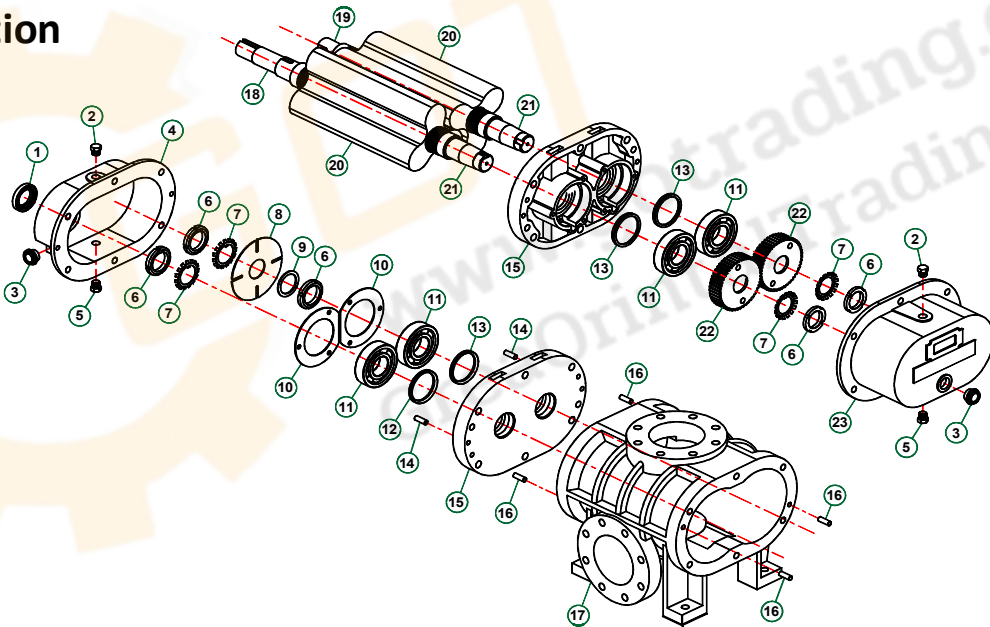
- Three-lobe roots blower

## External construction

| NO. | Part List        | MATERIAL     |
|-----|------------------|--------------|
| 1   | Blower main body | FC250        |
| 2   | Motor            | Refer to MFR |
| 3   | Steel base       | SS400        |
| 4   | Pulley           | FC250        |
| 5   | Drive V-belt     | Refer to MFR |
| 6   | Belt cover       | SS400        |
| 7   | In-let silencer  | SS400        |
| 8   | Rain cover       | SS400        |
| 9   | Check valve      | SS400        |
| 10  | Gauge pipe       | SS400        |
| 11  | Pressure gauge   | Refer to MFR |
| 12  | T-Joint          | SS400        |
| 13  | Flexible joint   | SS400 + EPDM |
| 14  | Safety valve     | FC250        |
| 15  | Out-let silencer | SS400        |



## Construction



| NO. | NAME               | MATERIAL | Q'TY | NO. | NAME             | MATERIAL | Q'TY |
|-----|--------------------|----------|------|-----|------------------|----------|------|
| 1   | TC Oil seal        | NBR      | 1    | 13  | V-ring           | Viton    | 3    |
| 2   | Lubricant plug     | ABS      | 2    | 14  | Positioning pins | S45C     | 2    |
| 3   | Oil sight window   | Glass    | 2    | 15  | Bearing case     | FC250    | 2    |
| 4   | Oil reservoir      | FC250    | 1    | 16  | Positioning pins | S45C     | 4    |
| 5   | Purge plug         | S45C     | 2    | 17  | Blower casing    | FC250    | 1    |
| 6   | Locking nuts       | S45C     | 5    | 18  | Drive shaft      | SCM440   | 1    |
| 7   | Lock washer        | S45C     | 4    | 19  | Driven shaft     | SCM440   | 1    |
| 8   | Oil thrower        | SS400    | 1    | 20  | Rotors           | FC250    | 2    |
| 9   | Oil thrower washer | SS400    | 1    | 21  | Gear Shaft       | SCM440   | 2    |
| 10  | Bearing fixtures   | SS400    | 2    | 22  | Timing gears     | SNCM220  | 2    |
| 11  | Bearings           | SUJ2     | 4    | 23  | Oil reservoir    | FC250    | 1    |
| 12  | TC Oil seal        | NBR      | 1    |     |                  |          |      |

## Conversion table

| Pressure                    | atm      | kPa     | bar      | lbt/in <sup>2</sup> (psi) | kgf/cm <sup>2</sup> | in Hg  | ftAq   | mmHg(Torr) | mmAq  |
|-----------------------------|----------|---------|----------|---------------------------|---------------------|--------|--------|------------|-------|
| 1 atm                       | 1        | 101.325 | 1.01325  | 14.696                    | 1.0333              | 29.921 | 33.914 | 760        | 10333 |
| 1 kPa                       | 0.0099   | 1       | 0.01     | 0.145                     | 0.0102              | 0.295  | 0.335  | 7.5        | 102   |
| 1 bar                       | 0.9869   | 100     | 1        | 14.504                    | 1.0198              | 29.53  | 33.47  | 750        | 10198 |
| 1 lbt/in <sup>2</sup> (psi) | 0.068    | 6.894   | 0.0689   | 1                         | 0.0703              | 2.036  | 2.308  | 51.71      | 703   |
| 1 kgf/cm <sup>2</sup>       | 0.968    | 98.062  | 0.981    | 14.228                    | 1                   | 28.96  | 32.82  | 735.53     | 10000 |
| 1 inHg                      | 0.0334   | 3.3863  | 0.0339   | 0.491                     | 0.0345              | 1      | 1.133  | 25.4       | 345.3 |
| 1 ftAq                      | 0.0295   | 2.99    | 0.0299   | 0.434                     | 0.0305              | 0.882  | 1      | 22.42      | 304.8 |
| 1 mmHg(Torr)                | 0.013    | 0.1338  | 0.00138  | 0.019                     | 0.0014              | 0.04   | 0.045  | 1          | 13.6  |
| 1 mmAq                      | 0.000097 | 0.0098  | 0.000098 | 0.0014                    | 0.0001              | 0.003  | 0.0033 | 0.074      | 1     |

| Capacity                    | m <sup>3</sup> /min | l/min | cm <sup>3</sup> /s | in <sup>3</sup> /s | ft <sup>3</sup> /min(cfm) |
|-----------------------------|---------------------|-------|--------------------|--------------------|---------------------------|
| 1 m <sup>3</sup> /min       | 1                   | 1000  | 16667              | 1016               | 35.288                    |
| 1 l/min                     | 0.001               | 1     | 16.67              | 1.02               | 0.0353                    |
| 1 cm <sup>3</sup> /s        | 0.00006             | 0.06  | 1                  | 0.061              | 0.002                     |
| 1 in <sup>3</sup> /s        | 0.00098             | 0.983 | 16.39              | 1                  | 0.035                     |
| 1 ft <sup>3</sup> /min(cfm) | 0.028               | 28.32 | 471.95             | 28.8               | 1                         |

Pressure Conversion Formula

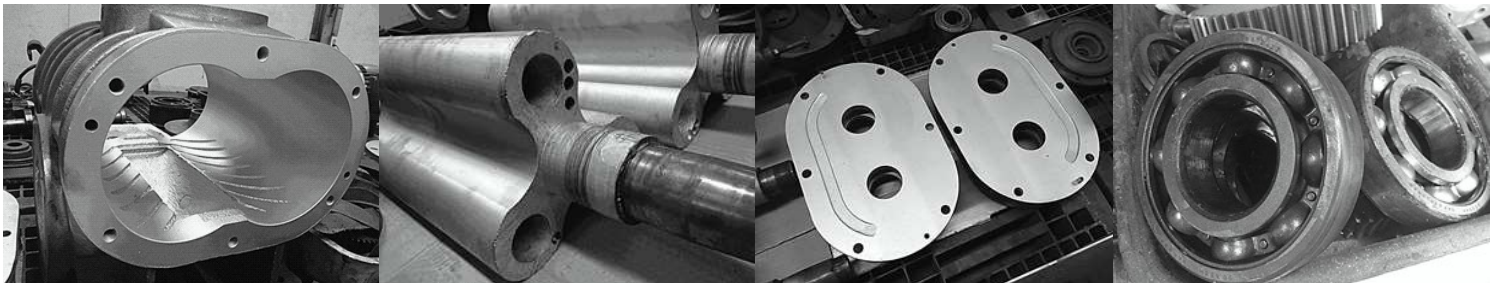
1 kPa=1000Pa=1000N/m<sup>2</sup>

1mbar=10.198mmAq 1mmHg  
(Torr)=133.8Pa

## Working directions of performance table

- The performance table indicate the model, diameter, speed (RPM), discharge pressure, actual inlet air capacity and shaft power of the blower.
- The performance table indicate the air quantity in standard suction condition (20°C temperature, absolute pressure 1.0332 kgf/cm<sup>2</sup> and relative humidity 65%) .
- The reference air capacity (0°C temperature and absolute pressure 1.0332kgf/cm<sup>2</sup>) is generally indicated in Nm<sup>3</sup>/min.
- The outlet air capacity can be converted as following.
$$Q_2 = Q_1 \times \frac{P_1}{P_2} \times \frac{273+T_2}{273+T_1}$$

Q<sub>1</sub>: Air capacity (m<sup>3</sup>/min) based on absolute pressure P<sub>1</sub>(mmAq) and temperature T<sub>1</sub>(°C)  
Q<sub>2</sub>: Air capacity (m<sup>3</sup>/min) based on absolute pressure P<sub>2</sub>(mmAq) and temperature T<sub>2</sub>(°C)
- Select motor rated output with 15 - 20% additional power to given shaft power.



# Performance table

| Model  | RPM  | 1000mmAq |      | 2000mmAq |      | 3000mmAq |      | 4000mmAq |      | 5000mmAq |       | 6000mmAq |       | 7000mmAq |       | 8000mmAq |       |
|--------|------|----------|------|----------|------|----------|------|----------|------|----------|-------|----------|-------|----------|-------|----------|-------|
|        |      | Qs       | La   | Qs       | La   | Qs       | La   | Qs       | La   | Qs       | La    | Qs       | La    | Qs       | La    | Qs       | La    |
| GRB-40 | 850  | 1.02     | 0.42 | 0.89     | 0.64 | 0.79     | 0.85 | 0.71     | 1.07 | 0.63     | 1.29  |          |       |          |       |          |       |
|        | 950  | 1.18     | 0.47 | 1.05     | 0.71 | 0.95     | 0.95 | 0.86     | 1.20 | 0.79     | 1.44  |          |       |          |       |          |       |
|        | 1050 | 1.33     | 0.52 | 1.20     | 0.79 | 1.10     | 1.06 | 1.02     | 1.32 | 0.94     | 1.59  |          |       |          |       |          |       |
|        | 1150 | 1.49     | 0.57 | 1.36     | 0.86 | 1.26     | 1.16 | 1.18     | 1.45 | 1.10     | 1.74  |          |       |          |       |          |       |
|        | 1250 | 1.65     | 0.62 | 1.52     | 0.94 | 1.42     | 1.26 | 1.33     | 1.58 | 1.26     | 1.90  | 1.19     | 2.22  | 1.13     | 2.54  | 1.07     | 2.86  |
|        | 1350 | 1.80     | 0.67 | 1.67     | 1.01 | 1.57     | 1.36 | 1.49     | 1.70 | 1.42     | 2.05  | 1.35     | 2.39  | 1.29     | 2.74  | 1.23     | 3.08  |
|        | 1450 | 1.96     | 0.71 | 1.83     | 1.09 | 1.73     | 1.46 | 1.65     | 1.83 | 1.57     | 2.20  | 1.50     | 2.57  | 1.44     | 2.94  | 1.39     | 3.31  |
|        | 1550 | 2.12     | 0.76 | 1.99     | 1.16 | 1.89     | 1.56 | 1.80     | 1.95 | 1.73     | 2.35  | 1.66     | 2.75  | 1.60     | 3.15  | 1.54     | 3.54  |
|        | 1650 | 2.27     | 0.81 | 2.14     | 1.24 | 2.04     | 1.66 | 1.96     | 2.08 | 1.89     | 2.50  | 1.82     | 2.93  | 1.76     | 3.35  | 1.70     | 3.77  |
|        | 1750 | 2.43     | 0.86 | 2.30     | 1.31 | 2.20     | 1.76 | 2.12     | 2.21 | 2.04     | 2.65  | 1.98     | 3.10  | 1.91     | 3.55  | 1.86     | 4.00  |
|        | 1850 | 2.59     | 0.91 | 2.46     | 1.39 | 2.36     | 1.86 | 2.27     | 2.33 | 2.20     | 2.81  | 2.13     | 3.28  | 2.07     | 3.75  | 2.01     | 4.23  |
|        | 1950 | 2.74     | 0.96 | 2.61     | 1.46 | 2.51     | 1.96 | 2.43     | 2.46 | 2.36     | 2.96  | 2.29     | 3.46  | 2.23     | 3.96  | 2.17     | 4.46  |
| GRB-50 | 850  | 1.81     | 0.61 | 1.64     | 0.97 | 1.52     | 1.34 | 1.41     | 1.70 | 1.31     | 2.06  | 1.22     | 2.42  | 1.14     | 2.79  | 1.07     | 3.15  |
|        | 950  | 2.07     | 0.68 | 1.91     | 1.09 | 1.78     | 1.49 | 1.67     | 1.90 | 1.57     | 2.30  | 1.48     | 2.71  | 1.40     | 3.11  | 1.33     | 3.52  |
|        | 1050 | 2.34     | 0.75 | 2.17     | 1.20 | 2.04     | 1.65 | 1.93     | 2.10 | 1.83     | 2.55  | 1.75     | 2.99  | 1.67     | 3.44  | 1.59     | 3.89  |
|        | 1150 | 2.60     | 0.82 | 2.43     | 1.32 | 2.30     | 1.81 | 2.19     | 2.30 | 2.09     | 2.79  | 2.01     | 3.28  | 1.93     | 3.77  | 1.85     | 4.26  |
|        | 1250 | 2.86     | 0.90 | 2.69     | 1.43 | 2.56     | 1.96 | 2.45     | 2.50 | 2.35     | 3.03  | 2.27     | 3.56  | 2.19     | 4.10  | 2.11     | 4.63  |
|        | 1350 | 3.12     | 0.97 | 2.95     | 1.54 | 2.82     | 2.12 | 2.71     | 2.70 | 2.62     | 3.27  | 2.53     | 3.85  | 2.45     | 4.42  | 2.37     | 5.00  |
|        | 1450 | 3.38     | 1.04 | 3.21     | 1.66 | 3.08     | 2.28 | 2.97     | 2.90 | 2.88     | 3.51  | 2.79     | 4.13  | 2.71     | 4.75  | 2.64     | 5.37  |
|        | 1550 | 3.64     | 1.11 | 3.47     | 1.77 | 3.34     | 2.43 | 3.23     | 3.10 | 3.14     | 3.76  | 3.05     | 4.42  | 2.97     | 5.08  | 2.90     | 5.74  |
|        | 1650 | 3.90     | 1.18 | 3.73     | 1.89 | 3.61     | 2.59 | 3.50     | 3.30 | 3.40     | 4.00  | 3.31     | 4.70  | 3.23     | 5.41  | 3.16     | 6.11  |
|        | 1750 | 4.16     | 1.26 | 4.00     | 2.00 | 3.87     | 2.75 | 3.76     | 3.50 | 3.66     | 4.24  | 3.57     | 4.99  | 3.49     | 5.74  | 3.42     | 6.48  |
|        | 1850 | 4.43     | 1.33 | 4.26     | 2.12 | 4.13     | 2.91 | 4.02     | 3.70 | 3.92     | 4.48  | 3.84     | 5.27  | 3.76     | 6.06  | 3.68     | 6.85  |
|        | 1950 | 4.69     | 1.40 | 4.52     | 2.23 | 4.39     | 3.06 | 4.28     | 3.89 | 4.18     | 4.73  | 4.10     | 5.56  | 4.02     | 6.39  | 3.94     | 7.22  |
| GRB-65 | 850  | 2.38     | 0.79 | 2.16     | 1.18 | 2.00     | 1.66 | 1.86     | 2.13 | 1.74     | 2.60  | 1.63     | 3.07  | 1.53     | 3.54  | 1.44     | 4.01  |
|        | 950  | 2.71     | 0.88 | 2.50     | 1.32 | 2.34     | 1.85 | 2.20     | 2.38 | 2.08     | 2.91  | 1.97     | 3.43  | 1.87     | 3.96  | 1.78     | 4.49  |
|        | 1050 | 3.05     | 0.97 | 2.84     | 1.46 | 2.68     | 2.05 | 2.54     | 2.63 | 2.42     | 3.21  | 2.31     | 3.79  | 2.21     | 4.38  | 2.12     | 4.96  |
|        | 1150 | 3.39     | 1.06 | 3.18     | 1.60 | 3.02     | 2.24 | 2.88     | 2.88 | 2.76     | 3.52  | 2.65     | 4.15  | 2.55     | 4.79  | 2.46     | 5.43  |
|        | 1250 | 3.73     | 1.16 | 3.52     | 1.74 | 3.36     | 2.44 | 3.22     | 3.13 | 3.10     | 3.82  | 2.99     | 4.52  | 2.89     | 5.21  | 2.80     | 5.90  |
|        | 1350 | 4.07     | 1.25 | 3.86     | 1.88 | 3.70     | 2.63 | 3.56     | 3.38 | 3.44     | 4.13  | 3.33     | 4.88  | 3.23     | 5.63  | 3.14     | 6.38  |
|        | 1450 | 4.41     | 1.34 | 4.20     | 2.02 | 4.04     | 2.83 | 3.90     | 3.63 | 3.78     | 4.43  | 3.67     | 5.24  | 3.57     | 6.04  | 3.48     | 6.85  |
|        | 1550 | 4.75     | 1.43 | 4.54     | 2.16 | 4.38     | 3.02 | 4.24     | 3.88 | 4.12     | 4.74  | 4.01     | 5.60  | 3.91     | 6.46  | 3.82     | 7.32  |
|        | 1650 | 5.09     | 1.53 | 4.88     | 2.30 | 4.72     | 3.22 | 4.58     | 4.13 | 4.46     | 5.05  | 4.35     | 5.96  | 4.25     | 6.88  | 4.16     | 7.79  |
|        | 1750 | 5.43     | 1.62 | 5.22     | 2.44 | 5.06     | 3.41 | 4.92     | 4.38 | 4.80     | 5.35  | 4.69     | 6.32  | 4.59     | 7.29  | 4.50     | 8.26  |
|        | 1850 | 5.77     | 1.71 | 5.56     | 2.58 | 5.40     | 3.61 | 5.26     | 4.63 | 5.14     | 5.66  | 5.03     | 6.68  | 4.93     | 7.71  | 4.84     | 8.74  |
|        | 1950 | 6.11     | 1.80 | 5.90     | 2.72 | 5.74     | 3.80 | 5.60     | 4.88 | 5.48     | 5.96  | 5.37     | 7.05  | 5.27     | 8.13  | 5.18     | 9.21  |
| GRB-80 | 800  | 4.11     | 1.30 | 3.83     | 2.09 | 3.62     | 2.87 | 3.44     | 3.65 | 3.28     | 4.44  | 3.13     | 5.22  | 3.00     | 6.00  | 2.87     | 6.78  |
|        | 900  | 4.71     | 1.47 | 4.43     | 2.35 | 4.22     | 3.23 | 4.03     | 4.11 | 3.87     | 4.99  | 3.73     | 5.87  | 3.60     | 6.75  | 3.47     | 7.63  |
|        | 1000 | 5.31     | 1.63 | 5.03     | 2.61 | 4.82     | 3.59 | 4.63     | 4.57 | 4.47     | 5.55  | 4.33     | 6.52  | 4.20     | 7.50  | 4.07     | 8.48  |
|        | 1100 | 5.91     | 1.79 | 5.63     | 2.87 | 5.42     | 3.95 | 5.23     | 5.02 | 5.07     | 6.10  | 4.93     | 7.18  | 4.79     | 8.25  | 4.67     | 9.33  |
|        | 1200 | 6.51     | 1.96 | 6.23     | 3.13 | 6.01     | 4.31 | 5.83     | 5.48 | 5.67     | 6.65  | 5.53     | 7.83  | 5.39     | 9.00  | 5.27     | 10.18 |
|        | 1300 | 7.11     | 2.12 | 6.83     | 3.39 | 6.61     | 4.66 | 6.43     | 5.94 | 6.27     | 7.21  | 6.13     | 8.48  | 5.99     | 9.75  | 5.87     | 11.03 |
|        | 1400 | 7.71     | 2.28 | 7.43     | 3.65 | 7.21     | 5.02 | 7.03     | 6.39 | 6.87     | 7.76  | 6.73     | 9.13  | 6.59     | 10.50 | 6.47     | 11.87 |
|        | 1500 | 8.31     | 2.45 | 8.03     | 3.91 | 7.81     | 5.38 | 7.63     | 6.85 | 7.47     | 8.32  | 7.32     | 9.79  | 7.19     | 11.25 | 7.07     | 12.72 |
|        | 1600 | 8.91     | 2.61 | 8.63     | 4.18 | 8.41     | 5.74 | 8.23     | 7.31 | 8.07     | 8.87  | 7.92     | 10.44 | 7.79     | 12.00 | 7.67     | 13.57 |
|        | 1650 | 9.21     | 2.69 | 8.93     | 4.31 | 8.71     | 5.92 | 8.53     | 7.54 | 8.37     | 9.15  | 8.22     | 10.76 | 8.09     | 12.38 | 7.97     | 13.99 |
|        | 1750 | 9.81     | 2.85 | 9.53     | 4.57 | 9.31     | 6.28 | 9.13     | 7.99 | 8.97     | 9.70  | 8.82     | 11.42 | 8.69     | 13.13 | 8.57     | 14.84 |
|        | 1850 | 10.41    | 3.02 | 10.12    | 4.83 | 9.91     | 6.64 | 9.73     | 8.45 | 9.57     | 10.26 | 9.42     | 12.07 | 9.29     | 13.88 | 9.16     | 15.69 |
|        | 1950 | 11.00    | 3.18 | 10.72    | 5.09 | 10.51    | 7.00 | 10.33    | 8.91 | 10.17    | 10.81 | 10.02    | 12.72 | 9.89     | 14.63 | 9.76     | 16.54 |

Remark: 1. Qs unit = inlet air flow (m<sup>3</sup>/min)      2. Ls unit = shaft power (BKW)

## Performance table

| Model    | RPM  | 1000mmAq |      | 2000mmAq |       | 3000mmAq |       | 4000mmAq |       | 5000mmAq |       | 6000mmAq |       | 7000mmAq |       | 8000mmAq |       |
|----------|------|----------|------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|
|          |      | Qs       | La   | Qs       | La    | Qs       | La    | Qs       | La    | Qs       | La    | Qs       | La    | Qs       | La    | Qs       | La    |
| GRB-100  | 800  | 5.78     | 1.98 | 5.39     | 3.07  | 5.09     | 4.17  | 4.84     | 5.26  | 4.62     | 6.36  | 4.42     | 7.46  | 4.24     | 8.55  | 4.07     | 9.65  |
|          | 900  | 6.61     | 2.22 | 6.23     | 3.46  | 5.93     | 4.69  | 5.68     | 5.92  | 5.46     | 7.15  | 5.26     | 8.39  | 5.08     | 9.62  | 4.91     | 10.85 |
|          | 1000 | 7.45     | 2.47 | 7.07     | 3.84  | 6.77     | 5.21  | 6.52     | 6.58  | 6.30     | 7.95  | 6.10     | 9.32  | 5.91     | 10.69 | 5.74     | 12.06 |
|          | 1100 | 8.29     | 2.72 | 7.90     | 4.22  | 7.61     | 5.73  | 7.36     | 7.24  | 7.14     | 8.74  | 6.94     | 10.25 | 6.75     | 11.76 | 6.58     | 13.27 |
|          | 1200 | 9.13     | 2.96 | 8.74     | 4.61  | 8.45     | 6.25  | 8.20     | 7.90  | 7.98     | 9.54  | 7.78     | 11.18 | 7.59     | 12.83 | 7.42     | 14.47 |
|          | 1300 | 9.97     | 3.21 | 9.58     | 4.99  | 9.29     | 6.77  | 9.03     | 8.55  | 8.81     | 10.33 | 8.61     | 12.12 | 8.43     | 13.90 | 8.26     | 15.68 |
|          | 1400 | 10.81    | 3.46 | 10.42    | 5.37  | 10.12    | 7.29  | 9.87     | 9.21  | 9.65     | 11.13 | 9.45     | 13.05 | 9.27     | 14.97 | 9.10     | 16.88 |
|          | 1500 | 11.65    | 3.70 | 11.26    | 5.76  | 10.96    | 7.81  | 10.71    | 9.87  | 10.49    | 11.92 | 10.29    | 13.98 | 10.11    | 16.03 | 9.94     | 18.09 |
|          | 1600 | 12.49    | 3.95 | 12.10    | 6.14  | 11.80    | 8.33  | 11.55    | 10.53 | 11.33    | 12.72 | 11.13    | 14.91 | 10.95    | 17.10 | 10.78    | 19.30 |
|          | 1650 | 12.91    | 4.07 | 12.52    | 6.33  | 12.22    | 8.60  | 11.97    | 10.86 | 11.75    | 13.12 | 11.55    | 15.38 | 11.37    | 17.64 | 11.20    | 19.90 |
|          | 1750 | 13.74    | 4.32 | 13.36    | 6.72  | 13.06    | 9.12  | 12.81    | 11.51 | 12.59    | 13.91 | 12.39    | 16.31 | 12.21    | 18.71 | 12.04    | 21.10 |
|          | 1850 | 14.58    | 4.57 | 14.20    | 7.10  | 13.90    | 9.64  | 13.65    | 12.17 | 13.43    | 14.71 | 13.23    | 17.24 | 13.04    | 19.78 | 12.87    | 22.31 |
|          | 1950 | 15.42    | 4.81 | 15.03    | 7.49  | 14.74    | 10.16 | 14.49    | 12.83 | 14.27    | 15.50 | 14.07    | 18.17 | 13.88    | 20.84 | 13.71    | 23.52 |
| GRB-125A | 780  | 8.59     | 2.61 | 8.17     | 4.18  | 7.85     | 5.74  | 7.58     | 7.31  | 7.34     | 8.88  | 7.13     | 10.44 | 6.93     | 12.01 | 6.75     | 13.58 |
|          | 830  | 9.20     | 2.78 | 8.78     | 4.44  | 8.46     | 6.11  | 8.20     | 7.78  | 7.96     | 9.45  | 7.74     | 11.11 | 7.55     | 12.78 | 7.36     | 14.45 |
|          | 880  | 9.82     | 2.95 | 9.40     | 4.71  | 9.08     | 6.48  | 8.81     | 8.25  | 8.57     | 10.01 | 8.36     | 11.78 | 8.16     | 13.55 | 7.98     | 15.32 |
|          | 930  | 10.43    | 3.11 | 10.01    | 4.98  | 9.69     | 6.85  | 9.42     | 8.72  | 9.19     | 10.58 | 8.97     | 12.45 | 8.78     | 14.32 | 8.59     | 16.19 |
|          | 990  | 11.17    | 3.31 | 10.75    | 5.30  | 10.43    | 7.29  | 10.16    | 9.28  | 9.93     | 11.27 | 9.71     | 13.25 | 9.51     | 15.24 | 9.33     | 17.23 |
|          | 1050 | 11.91    | 3.51 | 11.49    | 5.62  | 11.17    | 7.73  | 10.90    | 9.84  | 10.66    | 11.95 | 10.45    | 14.06 | 10.25    | 16.17 | 10.07    | 18.28 |
|          | 1110 | 12.64    | 3.72 | 12.23    | 5.94  | 11.91    | 8.17  | 11.64    | 10.40 | 11.40    | 12.63 | 11.19    | 14.86 | 10.99    | 17.09 | 10.81    | 19.32 |
|          | 1180 | 13.50    | 3.95 | 13.09    | 6.32  | 12.77    | 8.69  | 12.50    | 11.06 | 12.26    | 13.43 | 12.05    | 15.80 | 11.85    | 18.17 | 11.67    | 20.54 |
|          | 1250 | 14.36    | 4.18 | 13.95    | 6.69  | 13.63    | 9.20  | 13.36    | 11.71 | 13.12    | 14.23 | 12.91    | 16.74 | 12.71    | 19.25 | 12.53    | 21.76 |
|          | 1320 | 15.23    | 4.42 | 14.81    | 7.07  | 14.49    | 9.72  | 14.22    | 12.37 | 13.98    | 15.02 | 13.77    | 17.67 | 13.57    | 20.32 | 13.39    | 22.97 |
|          | 1390 | 16.09    | 4.65 | 15.67    | 7.44  | 15.35    | 10.24 | 15.08    | 13.03 | 14.84    | 15.82 | 14.63    | 18.61 | 14.43    | 21.40 | 14.25    | 24.19 |
|          | 1470 | 17.07    | 4.92 | 16.65    | 7.87  | 16.33    | 10.82 | 16.06    | 13.78 | 15.83    | 16.73 | 15.61    | 19.68 | 15.42    | 22.63 | 15.23    | 25.59 |
|          | 1560 | 18.18    | 5.22 | 17.76    | 8.35  | 17.44    | 11.49 | 17.17    | 14.62 | 16.93    | 17.75 | 16.72    | 20.89 | 16.52    | 24.02 | 16.34    | 27.15 |
|          | 1650 | 19.28    | 5.52 | 18.87    | 8.84  | 18.55    | 12.15 | 18.28    | 15.46 | 18.04    | 18.78 | 17.83    | 22.09 | 17.63    | 25.40 | 17.44    | 28.72 |
|          | 1750 | 20.51    | 5.86 | 20.10    | 9.37  | 19.78    | 12.89 | 19.51    | 16.40 | 19.27    | 19.92 | 19.06    | 23.43 | 18.86    | 26.94 | 18.67    | 30.46 |
|          | 1850 | 21.74    | 6.19 | 21.33    | 9.91  | 21.01    | 13.62 | 20.74    | 17.34 | 20.50    | 21.05 | 20.28    | 24.77 | 20.09    | 28.48 | 19.90    | 32.20 |
| GRB-125  | 780  | 12.64    | 3.82 | 12.08    | 6.11  | 11.64    | 8.39  | 11.27    | 10.68 | 10.95    | 12.97 | 10.66    | 15.26 | 10.39    | 17.55 | 10.14    | 19.84 |
|          | 830  | 13.54    | 4.06 | 12.97    | 6.50  | 12.54    | 8.93  | 12.17    | 11.37 | 11.85    | 13.81 | 11.55    | 16.24 | 11.28    | 18.68 | 11.03    | 21.11 |
|          | 880  | 14.44    | 4.30 | 13.87    | 6.89  | 13.44    | 9.47  | 13.07    | 12.05 | 12.75    | 14.64 | 12.45    | 17.22 | 12.18    | 19.80 | 11.93    | 22.39 |
|          | 930  | 15.34    | 4.55 | 14.77    | 7.28  | 14.34    | 10.01 | 13.97    | 12.74 | 13.64    | 15.47 | 13.35    | 18.20 | 13.08    | 20.93 | 12.83    | 23.66 |
|          | 990  | 16.42    | 4.84 | 15.85    | 7.75  | 15.41    | 10.65 | 15.05    | 13.56 | 14.72    | 16.47 | 14.43    | 19.37 | 14.16    | 22.28 | 13.91    | 25.18 |
|          | 1050 | 17.50    | 5.14 | 16.93    | 8.22  | 16.49    | 11.30 | 16.12    | 14.38 | 15.80    | 17.46 | 15.51    | 20.55 | 15.24    | 23.63 | 14.99    | 26.71 |
|          | 1110 | 18.57    | 5.43 | 18.01    | 8.69  | 17.57    | 11.95 | 17.20    | 15.20 | 16.88    | 18.46 | 16.59    | 21.72 | 16.32    | 24.98 | 16.07    | 28.24 |
|          | 1180 | 19.83    | 5.77 | 19.26    | 9.24  | 18.83    | 12.70 | 18.46    | 16.16 | 18.14    | 19.63 | 17.84    | 23.09 | 17.57    | 26.55 | 17.32    | 30.02 |
|          | 1250 | 21.09    | 6.11 | 20.52    | 9.78  | 20.09    | 13.45 | 19.72    | 17.12 | 19.39    | 20.79 | 19.10    | 24.46 | 18.83    | 28.13 | 18.58    | 31.80 |
|          | 1320 | 22.35    | 6.46 | 21.78    | 10.33 | 21.34    | 14.21 | 20.98    | 18.08 | 20.65    | 21.96 | 20.36    | 25.83 | 20.09    | 29.70 | 19.84    | 33.58 |
|          | 1390 | 23.61    | 6.80 | 23.04    | 10.88 | 22.60    | 14.96 | 22.23    | 19.04 | 21.91    | 23.12 | 21.62    | 27.20 | 21.35    | 31.28 | 21.10    | 35.36 |
|          | 1470 | 25.04    | 7.19 | 24.48    | 11.51 | 24.04    | 15.82 | 23.67    | 20.14 | 23.35    | 24.45 | 23.06    | 28.76 | 22.79    | 33.08 | 22.53    | 37.39 |
|          | 1560 | 26.66    | 7.63 | 26.09    | 12.21 | 25.66    | 16.79 | 25.29    | 21.37 | 24.97    | 25.95 | 24.67    | 30.53 | 24.40    | 35.10 | 24.15    | 39.68 |
|          | 1650 | 28.28    | 8.07 | 27.71    | 12.91 | 27.27    | 17.76 | 26.91    | 22.60 | 26.58    | 27.44 | 26.29    | 32.29 | 26.02    | 37.13 | 25.77    | 41.97 |
|          | 1750 | 30.08    | 8.56 | 29.51    | 13.70 | 29.07    | 18.83 | 28.70    | 23.97 | 28.38    | 29.11 | 28.09    | 34.24 | 27.82    | 39.38 | 27.57    | 44.52 |
|          | 1850 | 31.87    | 9.05 | 31.30    | 14.48 | 30.87    | 19.91 | 30.50    | 25.34 | 30.18    | 30.77 | 29.88    | 36.20 | 29.61    | 41.63 | 29.36    | 47.06 |
| GRB-150  | 780  | 16.35    | 4.92 | 15.64    | 7.87  | 15.09    | 10.82 | 14.62    | 13.78 | 14.22    | 16.73 | 13.85    | 19.68 | 13.51    | 22.63 | 13.20    | 25.59 |
|          | 830  | 17.51    | 5.24 | 16.79    | 8.38  | 16.25    | 11.52 | 15.78    | 14.66 | 15.38    | 17.80 | 15.01    | 20.94 | 14.67    | 24.08 | 14.35    | 27.23 |
|          | 880  | 18.67    | 5.55 | 17.95    | 8.88  | 17.40    | 12.21 | 16.94    | 15.54 | 16.53    | 18.87 | 16.17    | 22.20 | 15.83    | 25.53 | 15.51    | 28.87 |
|          | 930  | 19.83    | 5.87 | 19.11    | 9.39  | 18.56    | 12.91 | 18.10    | 16.43 | 17.69    | 19.95 | 17.33    | 23.47 | 16.99    | 26.99 | 16.67    | 30.51 |
|          | 990  | 21.22    | 6.24 | 20.50    | 9.99  | 19.95    | 13.74 | 19.49    | 17.49 | 19.08    | 21.23 | 18.72    | 24.98 | 18.38    | 28.73 | 18.06    | 32.47 |

Remark: 1. Qs unit = inlet air flow (m<sup>3</sup>/min) 2. Ls unit = shaft power (BKW)

# Performance table

| Model    | RPM  | 1000mmAq |       | 2000mmAq |       | 3000mmAq |       | 4000mmAq |       | 5000mmAq |       | 6000mmAq |        | 7000mmAq |        | 8000mmAq |        |
|----------|------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|--------|----------|--------|----------|--------|
|          |      | Qs       | La    | Qs       | La    | Qs       | La    | Qs       | La    | Qs       | La    | Qs       | La     | Qs       | La     | Qs       | La     |
| GRB-150  | 1050 | 22.61    | 6.62  | 21.89    | 10.60 | 21.34    | 14.57 | 20.88    | 18.55 | 20.47    | 22.52 | 20.11    | 26.49  | 19.77    | 30.47  | 19.45    | 34.44  |
|          | 1110 | 24.00    | 7.00  | 23.28    | 11.20 | 22.73    | 15.40 | 22.27    | 19.61 | 21.86    | 23.81 | 21.50    | 28.01  | 21.16    | 32.21  | 20.84    | 36.41  |
|          | 1180 | 25.62    | 7.44  | 24.90    | 11.91 | 24.36    | 16.38 | 23.89    | 20.84 | 23.49    | 25.31 | 23.12    | 29.77  | 22.78    | 34.24  | 22.46    | 38.71  |
|          | 1250 | 27.24    | 7.89  | 26.53    | 12.62 | 25.98    | 17.35 | 25.52    | 22.08 | 25.11    | 26.81 | 24.74    | 31.54  | 24.40    | 36.27  | 24.09    | 41.00  |
|          | 1320 | 28.86    | 8.33  | 28.15    | 13.32 | 27.60    | 18.32 | 27.14    | 23.31 | 26.73    | 28.31 | 26.36    | 33.31  | 26.02    | 38.30  | 25.71    | 43.30  |
|          | 1390 | 30.48    | 8.77  | 29.77    | 14.03 | 29.22    | 19.29 | 28.76    | 24.55 | 28.35    | 29.81 | 27.98    | 35.07  | 27.65    | 40.33  | 27.33    | 45.59  |
|          | 1470 | 32.34    | 9.27  | 31.62    | 14.84 | 31.08    | 20.40 | 30.61    | 25.96 | 30.21    | 31.53 | 29.84    | 37.09  | 29.50    | 42.65  | 29.18    | 48.22  |
|          | 1560 | 34.42    | 9.84  | 33.71    | 15.74 | 33.16    | 21.65 | 32.70    | 27.55 | 32.29    | 33.46 | 31.92    | 39.36  | 31.59    | 45.27  | 31.27    | 51.17  |
|          | 1650 | 36.51    | 10.41 | 35.80    | 16.65 | 35.25    | 22.90 | 34.78    | 29.14 | 34.38    | 35.39 | 34.01    | 41.63  | 33.67    | 47.88  | 33.36    | 54.12  |
|          | 1750 | 38.83    | 11.04 | 38.11    | 17.66 | 37.56    | 24.29 | 37.10    | 30.91 | 36.69    | 37.53 | 36.33    | 44.16  | 35.99    | 50.78  | 35.67    | 57.40  |
|          | 1850 | 41.14    | 11.67 | 40.43    | 18.67 | 39.88    | 25.67 | 39.42    | 32.68 | 39.01    | 39.68 | 38.64    | 46.68  | 38.31    | 53.68  | 37.99    | 60.68  |
| GRB-200A | 830  | 28.66    | 8.40  | 27.75    | 13.44 | 27.06    | 18.48 | 26.47    | 23.51 | 25.96    | 28.55 | 25.49    | 33.59  | 25.06    | 38.63  | 24.66    | 43.67  |
|          | 880  | 30.52    | 8.90  | 29.61    | 14.25 | 28.92    | 19.59 | 28.33    | 24.93 | 27.81    | 30.27 | 27.35    | 35.62  | 26.92    | 40.96  | 26.52    | 46.30  |
|          | 930  | 32.38    | 9.41  | 31.47    | 15.06 | 30.78    | 20.70 | 30.19    | 26.35 | 29.67    | 31.99 | 29.21    | 37.64  | 28.78    | 43.29  | 28.38    | 48.93  |
|          | 990  | 34.61    | 10.02 | 33.70    | 16.03 | 33.01    | 22.04 | 32.42    | 28.05 | 31.90    | 34.06 | 31.44    | 40.07  | 31.01    | 46.08  | 30.61    | 52.09  |
|          | 1050 | 36.84    | 10.62 | 35.93    | 17.00 | 35.24    | 23.37 | 34.65    | 29.75 | 34.13    | 36.12 | 33.67    | 42.50  | 33.24    | 48.87  | 32.84    | 55.25  |
|          | 1110 | 39.07    | 11.23 | 38.16    | 17.97 | 37.47    | 24.71 | 36.88    | 31.45 | 36.36    | 38.19 | 35.90    | 44.92  | 35.47    | 51.66  | 35.07    | 58.40  |
|          | 1180 | 41.67    | 11.94 | 40.76    | 19.10 | 40.07    | 26.27 | 39.48    | 33.43 | 38.96    | 40.59 | 38.50    | 47.76  | 38.07    | 54.92  | 37.67    | 62.08  |
|          | 1250 | 44.27    | 12.65 | 43.37    | 20.24 | 42.67    | 27.82 | 42.08    | 35.41 | 41.57    | 43.00 | 41.10    | 50.59  | 40.67    | 58.18  | 40.27    | 65.77  |
|          | 1320 | 46.87    | 13.36 | 45.97    | 21.37 | 45.27    | 29.38 | 44.69    | 37.40 | 44.17    | 45.41 | 43.70    | 53.42  | 43.27    | 61.44  | 42.87    | 69.45  |
|          | 1390 | 49.48    | 14.06 | 48.57    | 22.50 | 47.87    | 30.94 | 47.29    | 39.38 | 46.77    | 47.82 | 46.30    | 56.26  | 45.87    | 64.70  | 45.47    | 73.13  |
|          | 1470 | 52.45    | 14.87 | 51.54    | 23.80 | 50.85    | 32.72 | 50.26    | 41.65 | 49.74    | 50.57 | 49.28    | 59.49  | 48.85    | 68.42  | 48.45    | 77.34  |
| GRB-200  | 880  | 39.61    | 11.45 | 38.59    | 18.32 | 37.81    | 25.19 | 37.16    | 32.05 | 36.58    | 38.92 | 36.06    | 45.79  | 35.58    | 52.66  | 35.13    | 59.53  |
|          | 930  | 42.00    | 12.10 | 40.98    | 19.36 | 40.20    | 26.62 | 39.55    | 33.88 | 38.97    | 41.13 | 38.45    | 48.39  | 37.97    | 55.65  | 37.52    | 62.91  |
|          | 990  | 44.86    | 12.88 | 43.85    | 20.61 | 43.07    | 28.33 | 42.41    | 36.06 | 41.84    | 43.79 | 41.31    | 51.52  | 40.83    | 59.24  | 40.39    | 66.97  |
|          | 1050 | 47.73    | 13.66 | 46.72    | 21.86 | 45.94    | 30.05 | 45.28    | 38.25 | 44.70    | 46.44 | 44.18    | 54.64  | 43.70    | 62.83  | 43.25    | 71.03  |
|          | 1110 | 50.60    | 14.44 | 49.58    | 23.10 | 48.81    | 31.77 | 48.15    | 40.43 | 47.57    | 49.10 | 47.05    | 57.76  | 46.57    | 66.42  | 46.12    | 75.09  |
|          | 1180 | 53.94    | 15.35 | 52.93    | 24.56 | 52.15    | 33.77 | 51.49    | 42.98 | 50.92    | 52.19 | 50.39    | 61.40  | 49.91    | 70.61  | 49.47    | 79.82  |
|          | 1250 | 57.29    | 16.26 | 56.27    | 26.02 | 55.50    | 35.77 | 54.84    | 45.53 | 54.26    | 55.29 | 53.74    | 65.05  | 53.26    | 74.80  | 52.81    | 84.56  |
|          | 1320 | 60.63    | 17.17 | 59.62    | 27.48 | 58.84    | 37.78 | 58.18    | 48.08 | 57.61    | 58.38 | 57.08    | 68.69  | 56.60    | 78.99  | 56.16    | 89.29  |
|          | 1390 | 63.98    | 18.08 | 62.96    | 28.93 | 62.19    | 39.78 | 61.53    | 50.63 | 60.95    | 61.48 | 60.43    | 72.33  | 59.95    | 83.18  | 59.50    | 94.03  |
|          | 1470 | 67.80    | 19.12 | 66.79    | 30.60 | 66.01    | 42.07 | 65.35    | 53.55 | 64.78    | 65.02 | 64.25    | 76.49  | 63.77    | 87.97  | 63.33    | 99.44  |
|          | 830  | 50.02    | 14.40 | 48.83    | 23.03 | 47.92    | 31.67 | 47.15    | 40.31 | 46.48    | 48.95 | 45.87    | 57.59  | 45.30    | 66.22  | 44.78    | 74.86  |
| GRB-250  | 880  | 53.21    | 15.26 | 52.02    | 24.42 | 51.11    | 33.58 | 50.34    | 42.74 | 49.66    | 51.90 | 49.05    | 61.06  | 48.49    | 70.21  | 47.97    | 79.37  |
|          | 930  | 56.39    | 16.13 | 55.20    | 25.81 | 54.29    | 35.49 | 53.53    | 45.17 | 52.85    | 54.85 | 52.24    | 64.52  | 51.68    | 74.20  | 51.15    | 83.88  |
|          | 990  | 60.21    | 17.17 | 59.03    | 27.48 | 58.12    | 37.78 | 57.35    | 48.08 | 56.67    | 58.38 | 56.06    | 68.69  | 55.50    | 78.99  | 54.97    | 89.29  |
|          | 1050 | 64.04    | 18.21 | 62.85    | 29.14 | 61.94    | 40.07 | 61.17    | 51.00 | 60.50    | 61.92 | 59.88    | 72.85  | 59.32    | 83.78  | 58.80    | 94.71  |
|          | 1110 | 67.86    | 19.25 | 66.67    | 30.81 | 65.76    | 42.36 | 64.99    | 53.91 | 64.32    | 65.46 | 63.71    | 77.01  | 63.14    | 88.57  | 62.62    | 100.12 |
|          | 1180 | 72.32    | 20.47 | 71.13    | 32.75 | 70.22    | 45.03 | 69.46    | 57.31 | 68.78    | 69.59 | 68.17    | 81.87  | 67.60    | 94.15  | 67.08    | 106.43 |
|          | 1250 | 76.78    | 21.68 | 75.59    | 34.69 | 74.68    | 47.70 | 73.92    | 60.71 | 73.24    | 73.72 | 72.63    | 86.73  | 72.06    | 99.74  | 71.54    | 112.75 |
|          | 1320 | 81.24    | 22.90 | 80.05    | 36.63 | 79.14    | 50.37 | 78.38    | 64.11 | 77.70    | 77.85 | 77.09    | 91.58  | 76.53    | 105.32 | 76.00    | 119.06 |
|          | 1390 | 85.70    | 24.11 | 84.51    | 38.58 | 83.60    | 53.04 | 82.84    | 67.51 | 82.16    | 81.97 | 81.55    | 96.44  | 80.99    | 110.91 | 80.46    | 125.37 |
|          | 1470 | 90.80    | 25.50 | 89.61    | 40.80 | 88.70    | 56.10 | 87.93    | 71.39 | 87.26    | 86.69 | 86.65    | 101.99 | 86.08    | 117.29 | 85.56    | 132.59 |
|          | 830  | 66.52    | 19.20 | 64.86    | 30.71 | 63.59    | 42.23 | 62.52    | 53.75 | 61.57    | 65.26 | 60.72    | 76.78  | 59.94    | 88.30  | 59.21    | 99.82  |
| GRB-300A | 880  | 70.76    | 20.35 | 69.11    | 32.56 | 67.84    | 44.77 | 66.77    | 56.99 | 65.82    | 69.20 | 64.97    | 81.41  | 64.18    | 93.62  | 63.45    | 105.83 |
|          | 930  | 75.01    | 21.51 | 73.36    | 34.41 | 72.09    | 47.32 | 71.01    | 60.22 | 70.07    | 73.13 | 69.22    | 86.03  | 68.43    | 98.94  | 67.70    | 111.84 |
|          | 990  | 80.11    | 22.90 | 78.45    | 36.63 | 77.18    | 50.37 | 76.11    | 64.11 | 75.17    | 77.85 | 74.31    | 91.58  | 73.53    | 105.32 | 72.80    | 119.06 |
|          | 1050 | 85.21    | 24.28 | 83.55    | 38.85 | 82.28    | 53.42 | 81.21    | 67.99 | 80.27    | 82.56 | 79.41    | 97.13  | 78.63    | 111.70 | 77.90    | 126.27 |

Remark: 1. Qs unit = inlet air flow (m<sup>3</sup>/min) 2. Ls unit = shaft power (BKW)

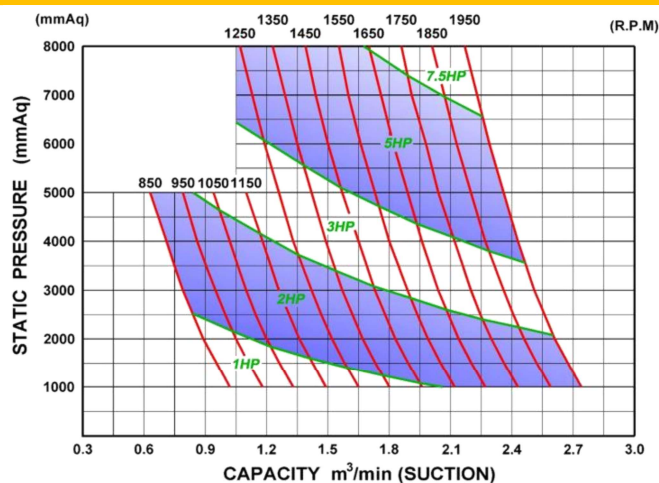
## Performance table

| Model    | RPM  | 1000mmAq |       | 2000mmAq |        | 3000mmAq |        | 4000mmAq |        | 5000mmAq |        | 6000mmAq |        | 7000mmAq |        | 8000mmAq |        |
|----------|------|----------|-------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|
|          |      | Qs       | La    | Qs       | La     | Qs       | La     | Qs       | La     | Qs       | La     | Qs       | La     | Qs       | La     | Qs       | La     |
| GRB-300A | 1110 | 90.30    | 25.67 | 88.65    | 41.07  | 87.38    | 56.48  | 86.31    | 71.88  | 85.36    | 87.28  | 84.51    | 102.68 | 83.72    | 118.09 | 82.99    | 133.49 |
|          | 1180 | 96.25    | 27.29 | 94.60    | 43.66  | 93.32    | 60.04  | 92.25    | 76.41  | 91.31    | 92.79  | 90.46    | 109.16 | 89.67    | 125.53 | 88.94    | 141.91 |
|          | 1250 | 102.20   | 28.91 | 100.54   | 46.25  | 99.27    | 63.60  | 98.20    | 80.95  | 97.26    | 98.29  | 96.40    | 115.64 | 95.62    | 132.98 | 94.89    | 150.33 |
|          | 1320 | 108.15   | 30.53 | 106.49   | 48.84  | 105.22   | 67.16  | 104.15   | 85.48  | 103.20   | 103.79 | 102.35   | 122.11 | 101.57   | 140.43 | 100.84   | 158.75 |
|          | 1390 | 114.09   | 32.15 | 112.44   | 51.43  | 111.17   | 70.72  | 110.09   | 90.01  | 109.15   | 109.30 | 108.30   | 128.59 | 107.51   | 147.88 | 106.78   | 167.16 |
|          | 1470 | 120.89   | 34.00 | 119.23   | 54.40  | 117.96   | 74.79  | 116.89   | 95.19  | 115.95   | 115.59 | 115.09   | 135.99 | 114.31   | 156.39 | 113.58   | 176.78 |
| GRB-300  | 800  | 101.28   | 29.11 | 98.93    | 46.58  | 97.12    | 64.05  | 95.60    | 81.52  | 94.26    | 98.99  | 93.05    | 116.46 | 91.94    | 133.92 | 90.90    | 151.39 |
|          | 900  | 114.64   | 32.75 | 112.30   | 52.40  | 110.49   | 72.06  | 108.97   | 91.71  | 107.63   | 111.36 | 106.42   | 131.01 | 105.31   | 150.66 | 104.27   | 170.32 |
|          | 1000 | 128.01   | 36.39 | 125.66   | 58.23  | 123.86   | 80.06  | 122.34   | 101.90 | 121.00   | 123.73 | 119.79   | 145.57 | 118.68   | 167.40 | 117.64   | 189.24 |
|          | 1100 | 141.38   | 40.03 | 139.03   | 64.05  | 137.23   | 88.07  | 135.71   | 112.09 | 134.37   | 136.11 | 133.16   | 160.13 | 132.05   | 184.14 | 131.01   | 208.16 |
|          | 1200 | 154.75   | 43.67 | 152.40   | 69.87  | 150.60   | 96.08  | 149.08   | 122.28 | 147.74   | 148.48 | 146.53   | 174.68 | 145.41   | 200.89 | 144.38   | 227.09 |
|          | 1300 | 168.12   | 47.31 | 165.77   | 75.70  | 163.97   | 104.08 | 162.45   | 132.47 | 161.11   | 160.85 | 159.90   | 189.24 | 158.78   | 217.63 | 157.75   | 246.01 |
|          | 1400 | 181.49   | 50.95 | 179.14   | 81.52  | 177.34   | 112.09 | 175.82   | 142.66 | 174.48   | 173.23 | 173.27   | 203.80 | 172.15   | 234.37 | 171.12   | 264.94 |
| GRB-350  | 600  | 118.60   | 34.31 | 115.52   | 54.90  | 113.16   | 75.49  | 111.16   | 96.08  | 109.40   | 116.66 | 107.82   | 137.25 | 106.36   | 157.84 | 105.00   | 178.43 |
|          | 700  | 139.61   | 40.03 | 136.53   | 64.05  | 134.16   | 88.07  | 132.17   | 112.09 | 130.41   | 136.11 | 128.82   | 160.13 | 127.36   | 184.14 | 126.00   | 208.16 |
|          | 800  | 160.62   | 45.75 | 157.54   | 73.20  | 155.17   | 100.65 | 153.18   | 128.10 | 151.42   | 155.55 | 149.83   | 183.00 | 148.37   | 210.45 | 147.01   | 237.90 |
|          | 900  | 181.63   | 51.47 | 178.54   | 82.35  | 176.18   | 113.23 | 174.19   | 144.11 | 172.43   | 174.99 | 170.84   | 205.88 | 169.38   | 236.76 | 168.02   | 267.64 |
|          | 1000 | 202.64   | 57.19 | 199.55   | 91.50  | 197.19   | 125.81 | 195.19   | 160.13 | 193.44   | 194.44 | 191.85   | 228.75 | 190.39   | 263.06 | 189.03   | 297.38 |
|          | 1100 | 223.64   | 62.91 | 220.56   | 100.65 | 218.19   | 138.39 | 216.20   | 176.14 | 214.44   | 213.88 | 212.86   | 251.63 | 211.39   | 289.37 | 210.04   | 327.11 |
|          | 1200 | 244.65   | 68.63 | 241.57   | 109.80 | 239.20   | 150.98 | 237.21   | 192.15 | 235.45   | 233.33 | 233.86   | 274.50 | 232.40   | 315.68 | 231.04   | 356.85 |
|          | 1300 | 265.66   | 74.34 | 262.58   | 118.95 | 260.21   | 163.56 | 258.22   | 208.16 | 256.46   | 252.77 | 254.87   | 297.38 | 253.41   | 341.98 | 252.05   | 386.59 |
| GRB-400  | 1400 | 286.67   | 80.06 | 283.58   | 128.10 | 281.22   | 176.14 | 279.22   | 224.18 | 277.47   | 272.21 | 275.88   | 320.25 | 274.42   | 368.29 | 273.06   | 416.33 |
|          | 600  | 137.87   | 39.77 | 134.46   | 63.63  | 131.84   | 87.50  | 129.64   | 111.36 | 127.69   | 135.22 | 125.94   | 159.09 | 124.32   | 182.95 | 122.82   | 206.81 |
|          | 700  | 162.22   | 46.40 | 158.81   | 74.24  | 156.19   | 102.08 | 153.99   | 129.92 | 152.04   | 157.76 | 150.29   | 185.60 | 148.67   | 213.44 | 147.17   | 241.28 |
|          | 800  | 186.57   | 53.03 | 183.16   | 84.85  | 180.54   | 116.66 | 178.34   | 148.48 | 176.39   | 180.30 | 174.64   | 212.11 | 173.02   | 243.93 | 171.52   | 275.75 |
|          | 900  | 210.92   | 59.66 | 207.51   | 95.45  | 204.89   | 131.25 | 202.69   | 167.04 | 200.74   | 202.83 | 198.99   | 238.63 | 197.37   | 274.42 | 195.87   | 310.22 |
|          | 1000 | 235.27   | 66.29 | 231.86   | 106.06 | 229.24   | 145.83 | 227.04   | 185.60 | 225.09   | 225.37 | 223.34   | 265.14 | 221.72   | 304.92 | 220.22   | 344.69 |
|          | 1100 | 259.62   | 72.91 | 256.21   | 116.66 | 253.59   | 160.41 | 251.39   | 204.16 | 249.44   | 247.91 | 247.69   | 291.66 | 246.07   | 335.41 | 244.57   | 379.16 |
|          | 1200 | 283.97   | 79.54 | 280.56   | 127.27 | 277.94   | 174.99 | 275.74   | 222.72 | 273.79   | 270.45 | 272.04   | 318.17 | 270.42   | 365.90 | 268.92   | 413.62 |

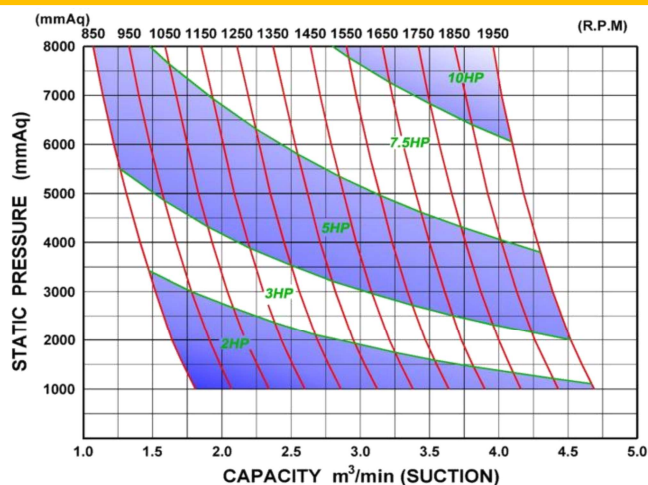
Remark: 1. Qs unit = inlet air flow (m<sup>3</sup>/min) 2. Ls unit = shaft power (BKW)

## Performance curve

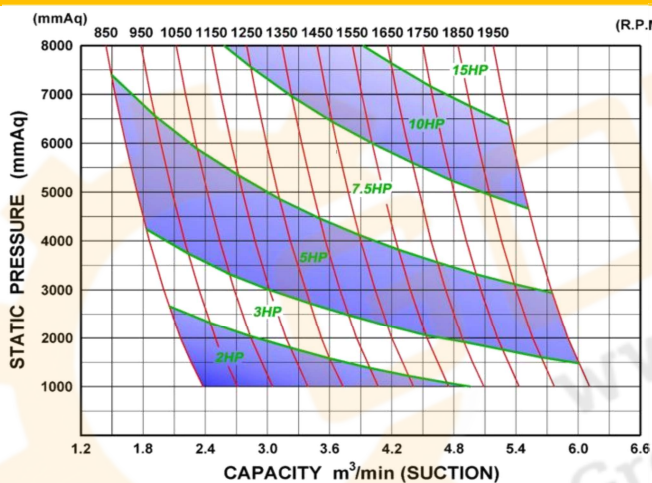
**GRB-40**



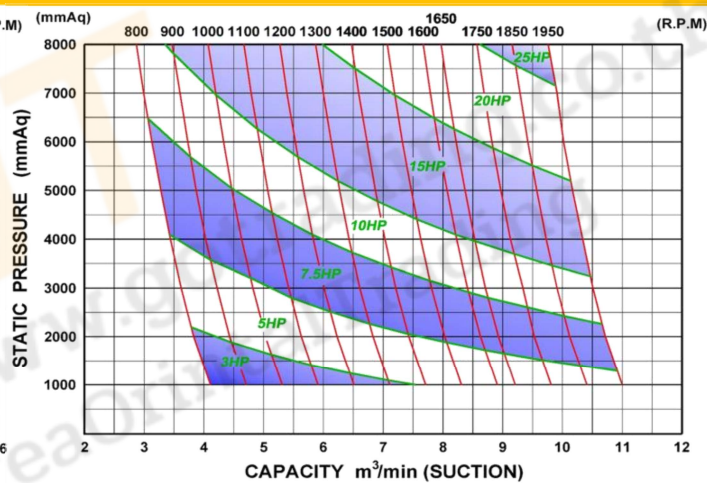
**GRB-50**



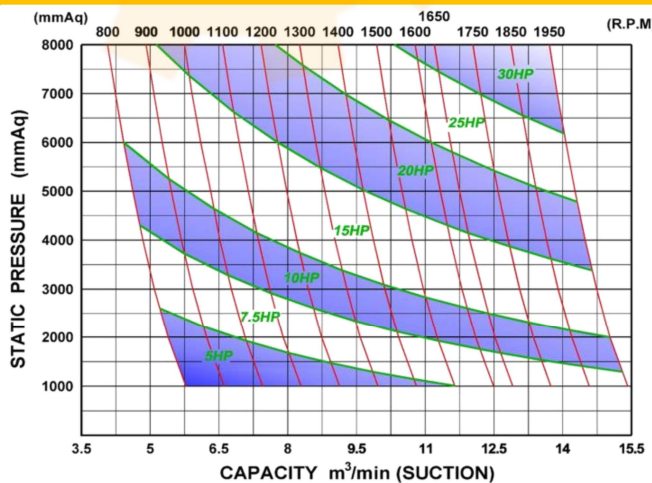
**GRB-65**



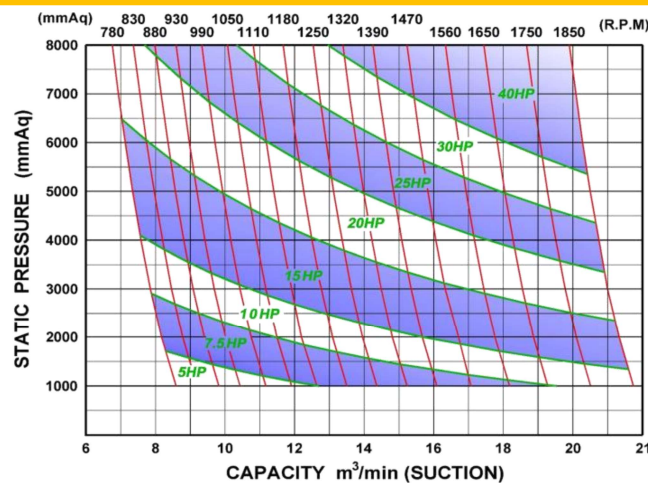
**GRB-80**



**GRB-100**



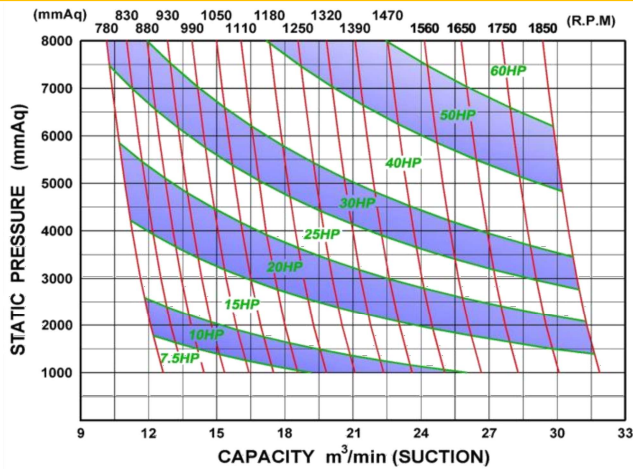
**GRB-125A**



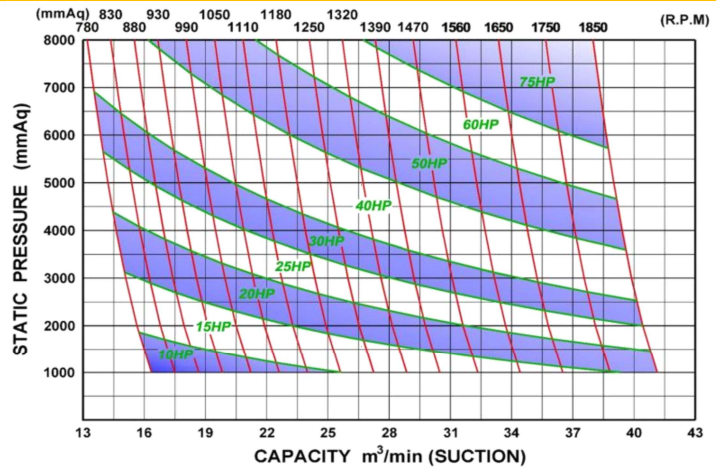
Remark: 1. Air volume Q (m³/min) is at intake condition.  
2. Output of electric motor (HP) is approximate value.

## Performance curve

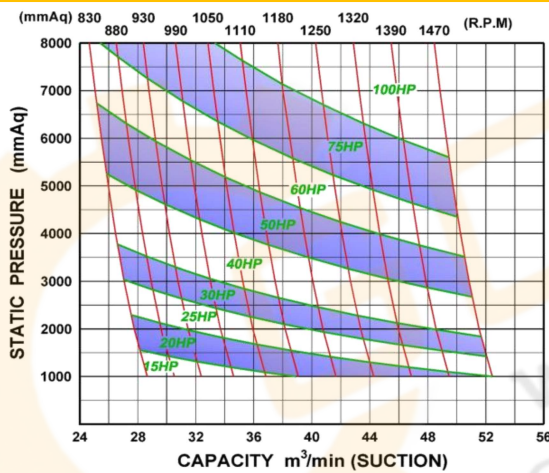
**GRB-125**



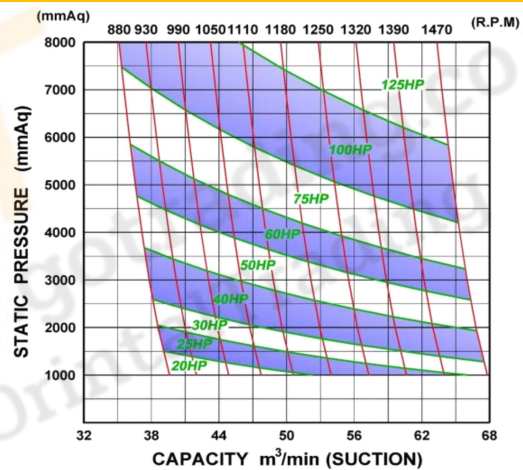
**GRB-150**



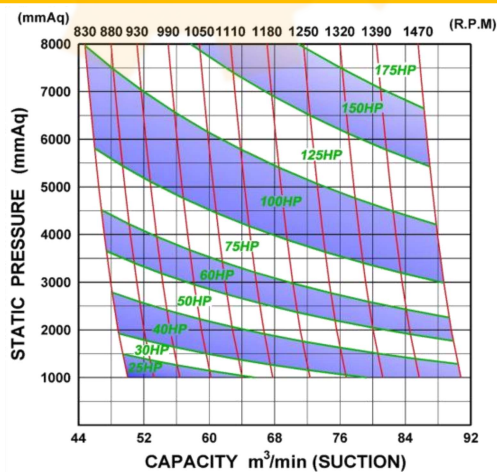
**GRB-200A**



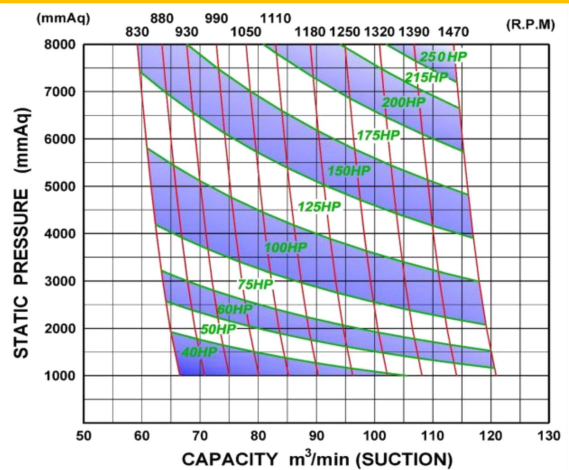
**GRB-200**



**GRB-250**



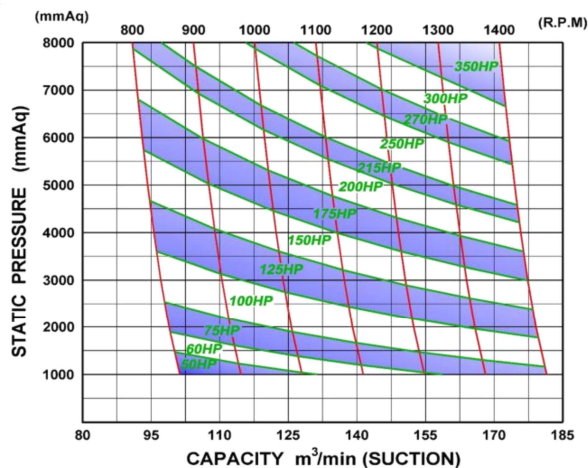
**GRB-300A**



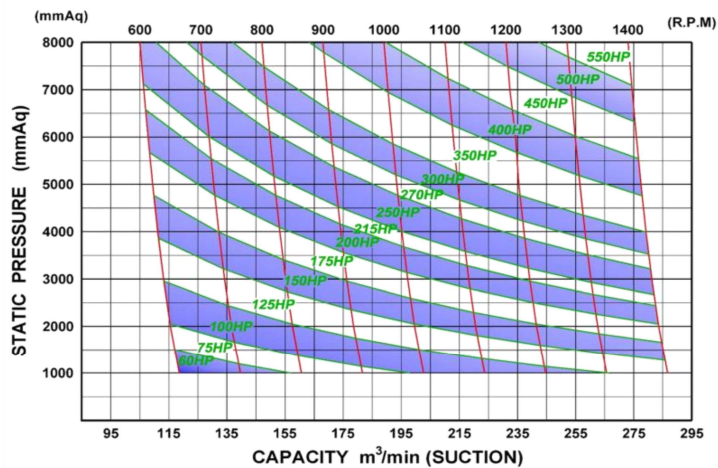
- Remark:
1. Air volume  $Q$  (m³/min) is at intake condition.
  2. Output of electric motor (HP) is approximate value.

## Performance curve

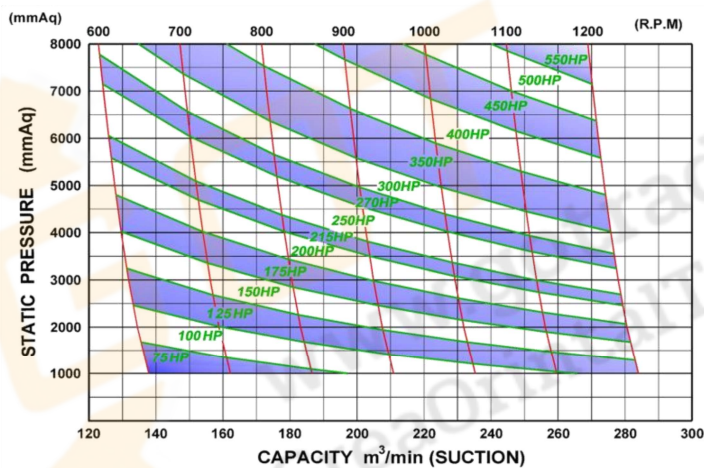
**GRB-300**



**GRB-350**



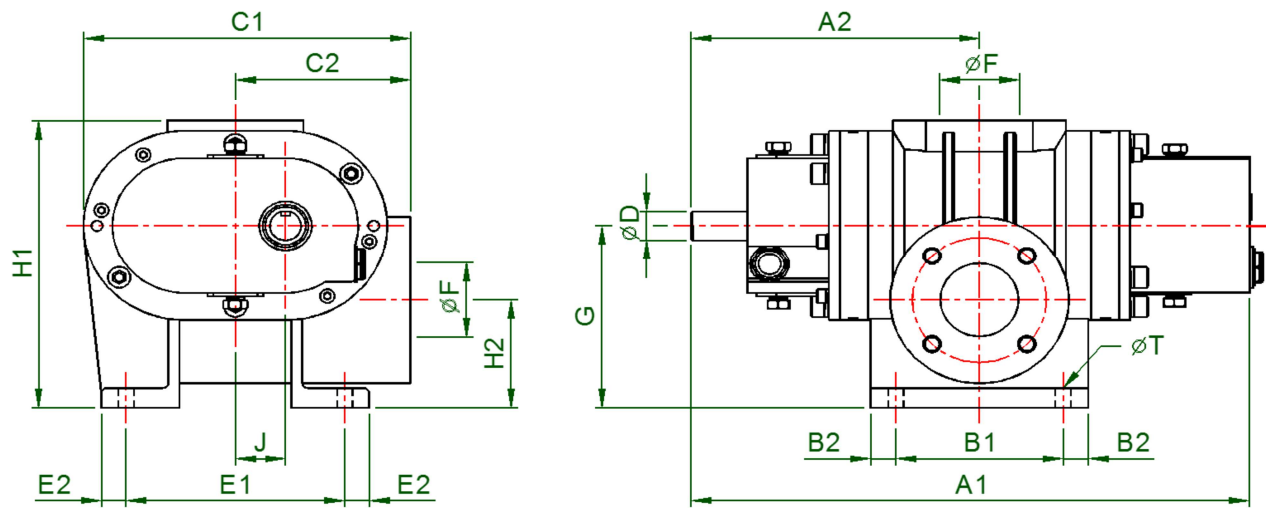
**GRB-400**



- Remark:
1. Air volume Q (m³/min) is at intake condition.
  2. Output of electric motor (HP) is approximate value.

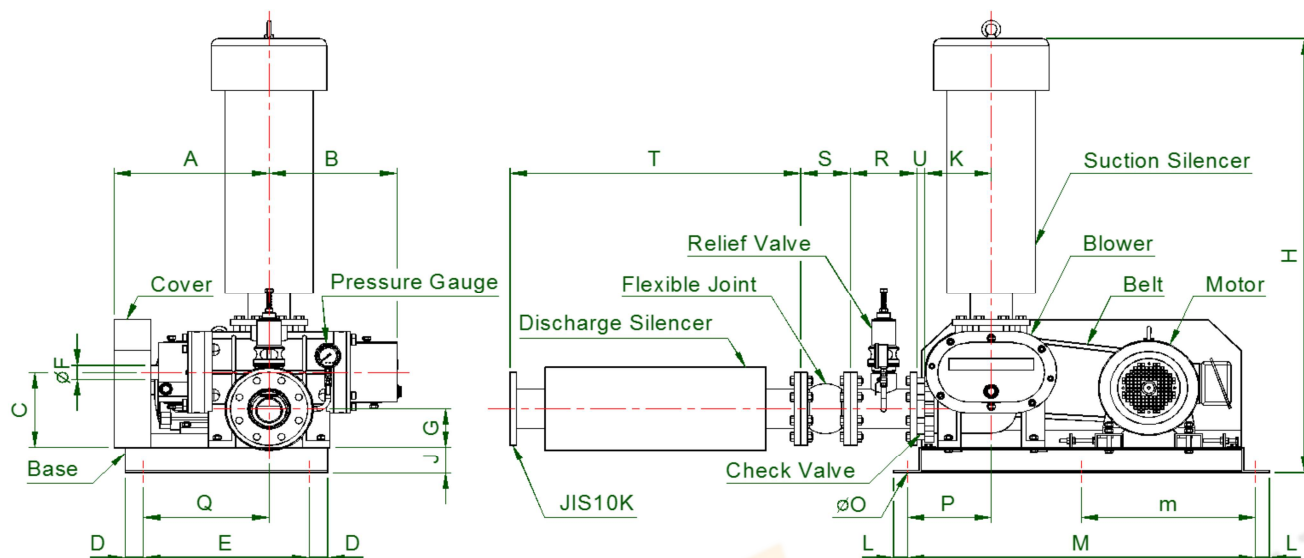


## Main-body dimension



| Model    | A1   | A2  | B1  | B2   | C1   | C2  | $\psi D$ | $\psi T$ | E1  | E2   | $\psi F$           | G   | H1  | H2  | J   | Wt.(kg) |
|----------|------|-----|-----|------|------|-----|----------|----------|-----|------|--------------------|-----|-----|-----|-----|---------|
| GRB-40   | 421  | 219 | 80  | 15   | 276  | 140 | 28       | 14       | 196 | 22   | JIS 5K 2" / 10K 2" | 180 | 285 | 104 | 45  | 55      |
| GRB-50   | 501  | 259 | 150 | 22.5 | 276  | 140 | 28       | 14       | 196 | 22   | JIS 10K 2"         | 191 | 292 | 104 | 45  | 70      |
| GRB-65   | 561  | 289 | 196 | 27   | 288  | 152 | 28       | 14       | 196 | 27   | JIS 10K 2.5"       | 194 | 295 | 104 | 45  | 72      |
| GRB-80   | 640  | 343 | 196 | 22   | 358  | 180 | 38       | 14       | 196 | 22   | JIS 10K 3"         | 212 | 341 | 107 | 60  | 136     |
| GRB-100  | 740  | 393 | 282 | 24   | 358  | 180 | 38       | 14       | 232 | 29   | JIS 10K 4"         | 217 | 352 | 112 | 60  | 148     |
| GRB-125A | 770  | 400 | 210 | 20   | 483  | 250 | 48       | 19       | 346 | 27   | JIS 10K 5"         | 262 | 430 | 135 | 80  | 248     |
| GRB-125  | 890  | 460 | 310 | 30   | 483  | 250 | 48       | 19       | 355 | 22.5 | JIS 10K 5"         | 262 | 430 | 163 | 80  | 274     |
| GRB-150  | 1000 | 515 | 428 | 26   | 483  | 250 | 48       | 19       | 355 | 22.5 | JIS 10K 6"         | 289 | 453 | 163 | 80  | 308     |
| GRB-200A | 993  | 495 | 239 | 45.5 | 700  | 360 | 65       | 23       | 555 | 42.5 | JIS 10K 8"         | 402 | 630 | 198 | 120 | 640     |
| GRB-200  | 1093 | 545 | 400 | 38   | 690  | 350 | 65       | 23       | 550 | 35   | JIS 10K 8"         | 402 | 630 | 198 | 120 | 732     |
| GRB-250  | 1243 | 620 | 520 | 25   | 700  | 360 | 65       | 23       | 550 | 35   | JIS 10K 10"        | 435 | 660 | 218 | 120 | 929     |
| GRB-300A | 1479 | 756 | 680 | 45   | 700  | 360 | 75       | 23       | 540 | 40   | JIS 10K 12"        | 435 | 675 | 255 | 120 | 1071    |
| GRB-300  | 1306 | 699 | 420 | 55   | 1010 | 510 | 95       | 33       | 780 | 35   | JIS 10K 12"        | 550 | 880 | 300 | 180 | 1700    |
| GRB-350  | 1626 | 859 | 740 | 55   | 1010 | 510 | 95       | 33       | 780 | 35   | JIS 10K 14"        | 550 | 880 | 300 | 180 | 2250    |
| GRB-400  | 1766 | 929 | 880 | 55   | 1010 | 510 | 95       | 33       | 780 | 35   | JIS 10K 16"        | 550 | 880 | 300 | 180 | 2500    |

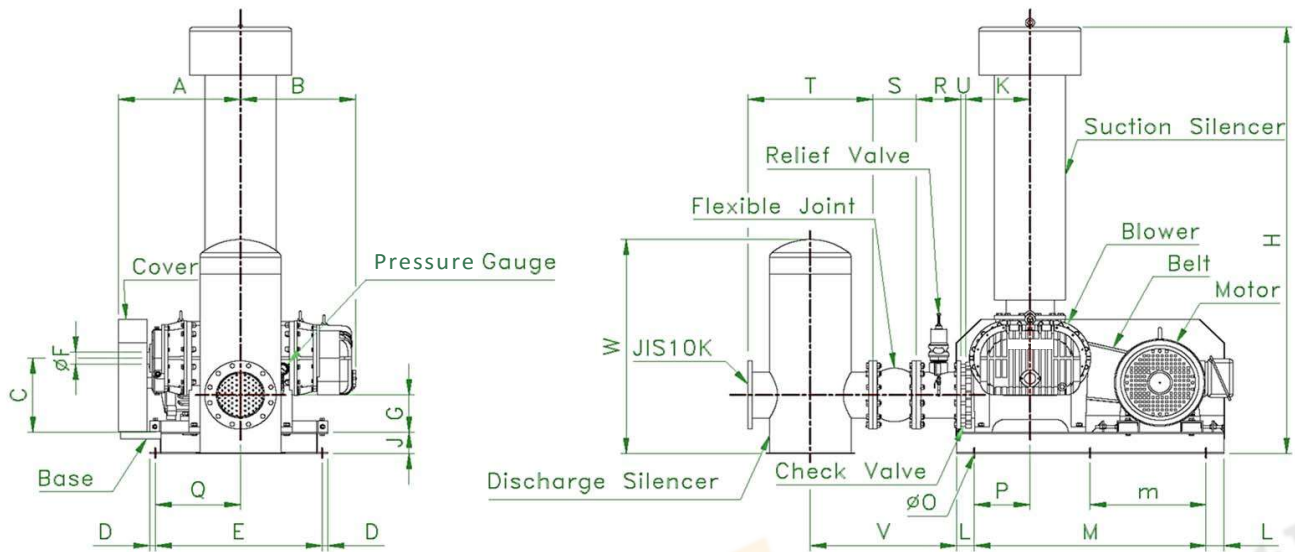
## Complete set dimension (Horizontal discharge silencer)



※Wt. without motor

| Model    | A    | B   | C   | D    | E    | ψF | G   | H    | J   | K   | L    | M    | m    | ψO   | P   | Q   | R   | U  | S   | T    | Wt.(kg) |
|----------|------|-----|-----|------|------|----|-----|------|-----|-----|------|------|------|------|-----|-----|-----|----|-----|------|---------|
| GRB-40   | 235  | 202 | 180 | 20   | 350  | 28 | 104 | 731  | 46  | 140 | 50   | 500  | -    | 14   | 98  | 255 | 150 | 20 | 105 | 589  | 85      |
| GRB-50   | 274  | 242 | 191 | 50   | 350  | 28 | 104 | 933  | 75  | 140 | 37.5 | 795  | -    | 12.7 | 208 | 209 | 150 | 20 | 105 | 589  | 122     |
| GRB-65   | 303  | 272 | 194 | 50   | 350  | 28 | 104 | 936  | 75  | 152 | 37.5 | 795  | -    | 12.7 | 208 | 238 | 150 | 24 | 115 | 589  | 132     |
| GRB-80   | 371  | 297 | 212 | 50   | 450  | 38 | 107 | 1251 | 75  | 180 | 37.5 | 945  | -    | 12.7 | 228 | 291 | 180 | 24 | 136 | 789  | 233     |
| GRB-100  | 421  | 347 | 217 | 50   | 450  | 38 | 112 | 1262 | 75  | 180 | 37.5 | 945  | -    | 12.7 | 228 | 341 | 180 | 22 | 136 | 789  | 247     |
| GRB-125A | 435  | 371 | 262 | 25   | 550  | 48 | 135 | 1851 | 100 | 250 | 100  | 900  | -    | 19   | 133 | 240 | 250 | 24 | 174 | 1260 | 408     |
| GRB-125  | 495  | 431 | 262 | 25   | 550  | 48 | 163 | 1851 | 100 | 250 | 100  | 900  | -    | 19   | 138 | 300 | 250 | 24 | 174 | 1260 | 434     |
| GRB-150  | 536  | 486 | 289 | 25   | 550  | 48 | 163 | 1874 | 100 | 250 | 100  | 900  | -    | 19   | 138 | 341 | 250 | 26 | 180 | 1260 | 485     |
| GRB-200A | 560  | 498 | 402 | 32.5 | 935  | 65 | 198 | 2263 | 125 | 360 | 100  | 1300 | 650  | 20   | 313 | 352 | 250 | 27 | 205 | 1640 | 990     |
| GRB-200  | 610  | 548 | 402 | 32.5 | 935  | 65 | 198 | 2263 | 125 | 350 | 100  | 1300 | 650  | 20   | 313 | 403 | 250 | 27 | 205 | 1640 | 1080    |
| GRB-250  | 685  | 623 | 435 | 32.5 | 935  | 65 | 218 | 2500 | 125 | 360 | 100  | 1300 | 650  | 20   | 313 | 478 | 250 | 28 | 240 | 1760 | 1350    |
| GRB-300A | 800  | 723 | 435 | 37.5 | 925  | 75 | 255 | 2682 | 150 | 360 | 235  | 1530 | 765  | 24   | 273 | 523 | 300 | 32 | 260 | 1750 | 1660    |
| GRB-300  | 780  | 607 | 550 | 45   | 1010 | 95 | 300 | 3097 | 250 | 510 | 235  | 2000 | 1000 | 33   | 325 | 400 | 300 | 32 | 260 | 1850 | 2500    |
| GRB-350  | 940  | 767 | 550 | 45   | 1110 | 95 | 300 | 3367 | 250 | 510 | 235  | 2000 | 1000 | 33   | 325 | 560 | 350 | 35 | 265 | 2500 | 3380    |
| GRB-400  | 1020 | 837 | 550 | 45   | 1110 | 95 | 300 | 3663 | 250 | 510 | 235  | 2000 | 1000 | 33   | 325 | 670 | 350 | 40 | 265 | 2700 | 3850    |

## Complete set dimension (Vertical discharge silencer)



※Wt. without motor

| Model    | A   | B   | C   | D  | E   | ØF | G   | H    | J   | K   | L    | M    | m   | ØO   | P   | Q   | R   | U  | S   | T   | V   | W    | Wt.(kg) |
|----------|-----|-----|-----|----|-----|----|-----|------|-----|-----|------|------|-----|------|-----|-----|-----|----|-----|-----|-----|------|---------|
| GRB-40   | 235 | 202 | 108 | 20 | 350 | 28 | 104 | 731  | 46  | 140 | 50   | 500  | -   | 14   | 98  | 255 | 150 | 20 | 105 | 300 | 417 | 420  | 102     |
| GRB-50   | 274 | 242 | 191 | 50 | 350 | 28 | 104 | 933  | 75  | 140 | 37.5 | 795  | -   | 12.7 | 208 | 209 | 150 | 20 | 105 | 300 | 389 | 420  | 130.5   |
| GRB-65   | 303 | 272 | 194 | 50 | 350 | 28 | 104 | 936  | 75  | 152 | 37.5 | 795  | -   | 12.7 | 208 | 238 | 150 | 24 | 115 | 350 | 440 | 485  | 142     |
| GRB-80   | 371 | 297 | 212 | 50 | 450 | 38 | 107 | 1251 | 75  | 180 | 37.5 | 945  | -   | 12.7 | 228 | 291 | 180 | 24 | 136 | 400 | 518 | 595  | 239     |
| GRB-100  | 421 | 347 | 217 | 50 | 450 | 38 | 112 | 1262 | 75  | 180 | 37.5 | 945  | -   | 12.7 | 228 | 341 | 180 | 22 | 136 | 450 | 547 | 665  | 262.5   |
| GRB-125A | 435 | 371 | 262 | 25 | 550 | 48 | 135 | 1851 | 100 | 250 | 100  | 900  | -   | 19   | 133 | 240 | 250 | 24 | 174 | 500 | 715 | 805  | 423     |
| GRB-125  | 495 | 431 | 262 | 25 | 550 | 48 | 163 | 1851 | 100 | 250 | 100  | 900  | -   | 19   | 138 | 300 | 250 | 24 | 174 | 500 | 711 | 805  | 449     |
| GRB-150  | 536 | 486 | 289 | 25 | 550 | 48 | 163 | 1874 | 100 | 250 | 100  | 900  | -   | 19   | 138 | 341 | 250 | 26 | 180 | 598 | 773 | 920  | 519     |
| GRB-200A | 560 | 498 | 402 | 33 | 935 | 65 | 198 | 2263 | 125 | 360 | 100  | 1300 | 650 | 20   | 313 | 352 | 250 | 27 | 205 | 648 | 761 | 1080 | 984     |
| GRB-200  | 610 | 548 | 402 | 33 | 935 | 65 | 198 | 2263 | 125 | 350 | 100  | 1300 | 650 | 20   | 313 | 403 | 250 | 27 | 205 | 648 | 743 | 1080 | 1076    |
| GRB-250  | 685 | 646 | 435 | 33 | 935 | 65 | 218 | 2500 | 125 | 360 | 100  | 1300 | 650 | 20   | 313 | 478 | 250 | 28 | 245 | 700 | 820 | 1255 | 1356    |

Remark: Larger models are available upon request.

## Sound Proof Packaged



### Features

Sound reduction packaged for GRB Series Roots blower to provide low noise effect during operation and safety environmental from loud noise.

- Fiber glass absorption material, capable to reduce noise of 10 -13 dB.
- Easy to assembly with streamline designed.
- Equipped with ventilation fan for interior temperature cooling.
- Featured 2 maintenance doors for convenient maintenance and overhaul.
- Available for all sizes and models.



- Inlet channel for air suction.



- Cooling fan outlet ventilation.



- Two side doors for maintenance access and overhaul.



- Interchangeable door knob handle for maintenance door.



- 3 phase, 380V, 50 Hz ventilation fan for interior temperature cooling.

#### Remark:

*It is recommended to set the runtime-delay relay for ventilation fan at 10 -15 minute after the blower stop operating to allow interior cooling.*



- 90° Inlet silencer designed to accommodate with the packaged.

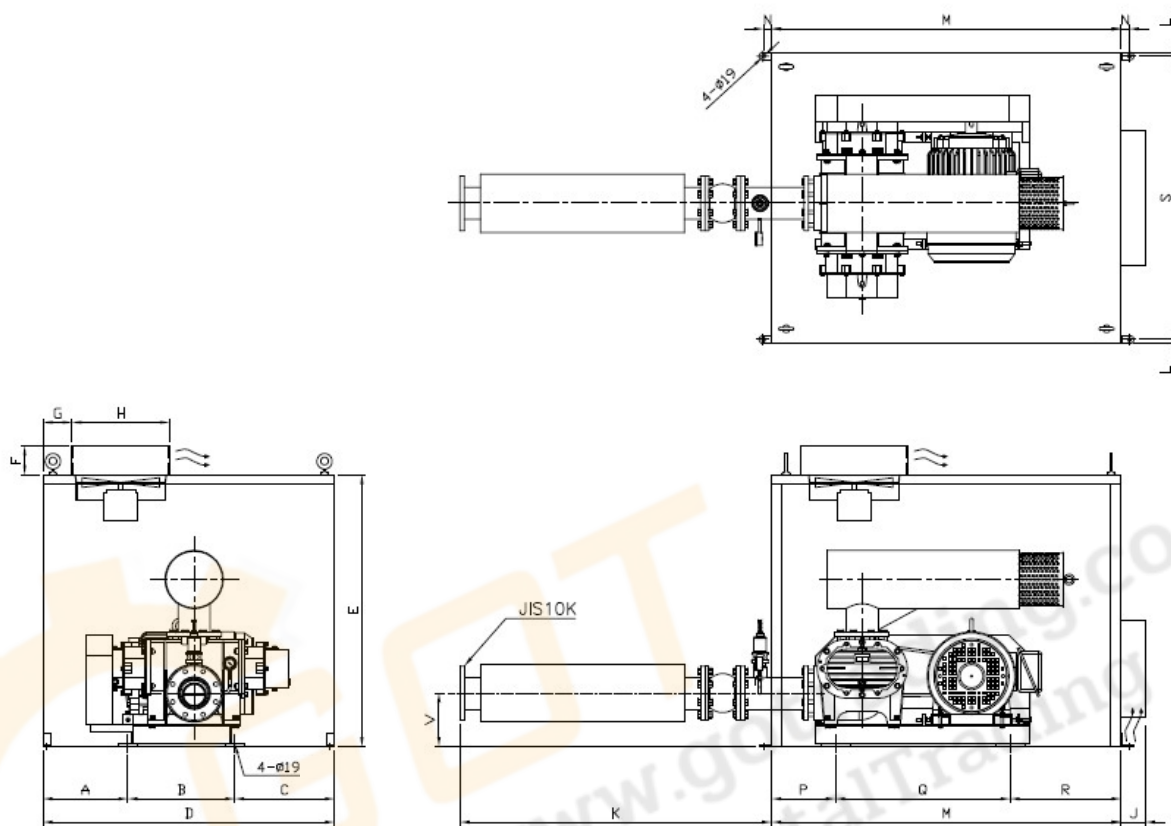
## Specification

| Model    | Sound Proof Dimension (mm) |      |       | Maintenance Door Dimension (mm) |       | Ventilation Fan Specification |            |         |      | Component Material |                |                  |         |                |                |
|----------|----------------------------|------|-------|---------------------------------|-------|-------------------------------|------------|---------|------|--------------------|----------------|------------------|---------|----------------|----------------|
|          |                            |      |       |                                 |       | Capacity (cmm)                | Power (HP) | Voltage | Q'ty | Exterior           |                | Noise Absorption |         |                | Interior Frame |
|          | Length                     | High | Width | High                            | Width |                               |            |         |      | Material           | Thickness (mm) | Material         | Density | Thickness (mm) |                |
| GRB-40   | 900                        | 700  | 800   | 700                             | 700   | 200                           | 0.5        | 380     | 1    | SS400              | 1.6            | Fiber Glass      | 48K     | 50             | SS400          |
| GRB-50   | 1000                       | 750  | 800   | 750                             | 800   | 200                           | 0.5        | 380     | 1    | SS400              | 1.6            | Fiber Glass      | 48K     | 50             | SS400          |
| GRB-65   | 1000                       | 750  | 800   | 750                             | 800   | 200                           | 0.5        | 380     | 1    | SS400              | 1.6            | Fiber Glass      | 48K     | 50             | SS400          |
| GRB-80   | 1300                       | 900  | 1100  | 900                             | 900   | 250                           | 0.5        | 380     | 1    | SS400              | 1.6            | Fiber Glass      | 48K     | 50             | SS400          |
| GRB-100  | 1300                       | 900  | 1100  | 900                             | 900   | 250                           | 0.5        | 380     | 1    | SS400              | 1.6            | Fiber Glass      | 48K     | 50             | SS400          |
| GRB-125A | 1600                       | 1200 | 1400  | 1150                            | 900   | 250                           | 0.5        | 380     | 1    | SS400              | 1.6            | Fiber Glass      | 48K     | 50             | SS400          |
| GRB-125  | 1600                       | 1200 | 1400  | 1150                            | 900   | 250                           | 0.5        | 380     | 1    | SS400              | 1.6            | Fiber Glass      | 48K     | 50             | SS400          |
| GRB-150  | 1800                       | 1400 | 1500  | 1400                            | 900   | 250                           | 0.5        | 380     | 1    | SS400              | 1.6            | Fiber Glass      | 48K     | 50             | SS400          |
| GRB-200A | 1900                       | 1600 | 1500  | 1600                            | 800   | 250                           | 0.5        | 380     | 2    | SS400              | 1.6            | Fiber Glass      | 48K     | 50             | SS400          |
| GRB-200  | 1900                       | 1600 | 1500  | 1600                            | 800   | 250                           | 0.5        | 380     | 2    | SS400              | 1.6            | Fiber Glass      | 48K     | 50             | SS400          |
| GRB-250  | 2200                       | 1600 | 1650  | 1600                            | 900   | 250                           | 0.5        | 380     | 2    | SS400              | 1.6            | Fiber Glass      | 48K     | 50             | SS400          |
| GRB-300A | 2500                       | 1800 | 2000  | 1800                            | 1000  | 250                           | 0.5        | 380     | 2    | SS400              | 1.6            | Fiber Glass      | 48K     | 50             | SS400          |
| GRB-300  | 2850                       | 2100 | 1900  | 2100                            | 1200  | 250                           | 0.5        | 380     | 2    | SS400              | 1.6            | Fiber Glass      | 48K     | 50             | SS400          |

**Remark:** Larger models are available upon request.

## Complete set dimension (Sound proof packaged installation)

For GRB-40 - GRB-150

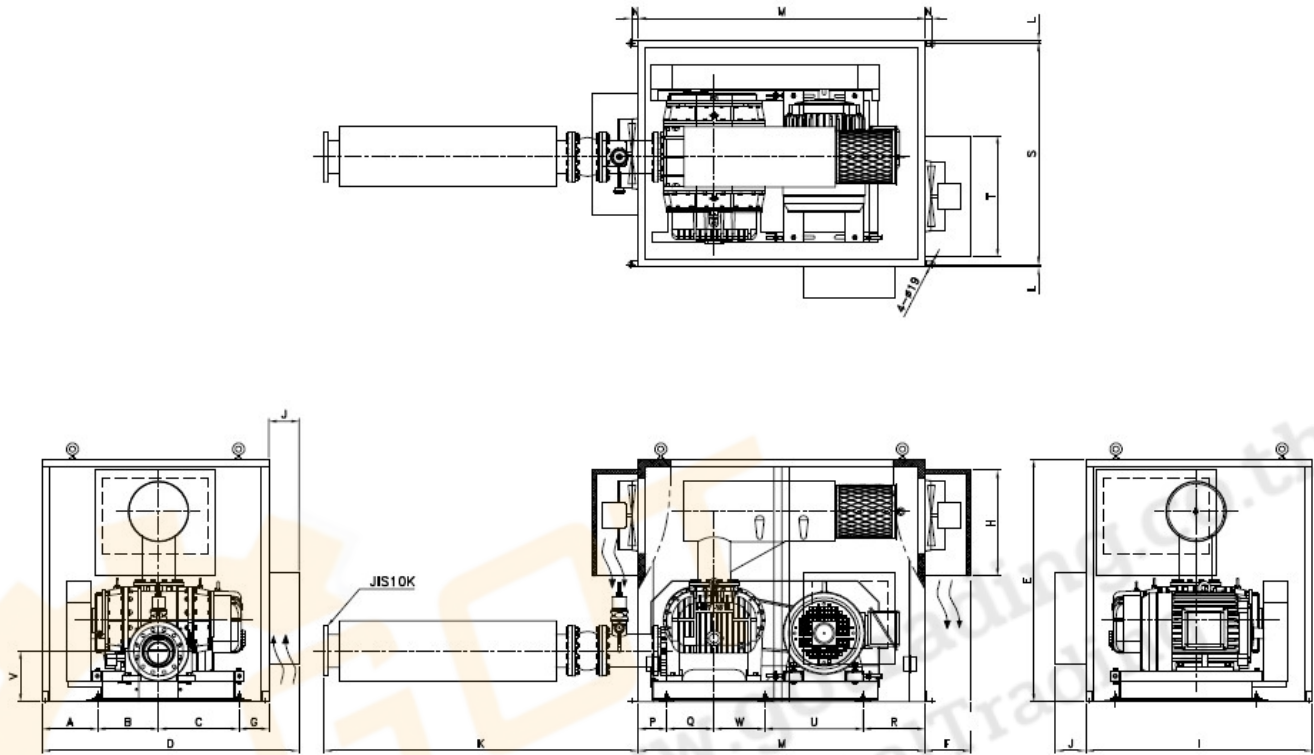


| Model    | A   | B   | C   | D    | E    | F   | G    | H   | J   | K    | L  | M    | N  | P   | Q   | R   | S    | V   |
|----------|-----|-----|-----|------|------|-----|------|-----|-----|------|----|------|----|-----|-----|-----|------|-----|
| GRB-40   | 195 | 350 | 255 | 800  | 700  | 150 | 47.5 | 465 | 100 | 825  | 20 | 900  | 42 | 181 | 500 | 219 | 760  | 150 |
| GRB-50   | 209 | 350 | 241 | 800  | 750  | 150 | 47.5 | 465 | 100 | 834  | 20 | 1000 | 42 | 93  | 795 | 112 | 760  | 179 |
| GRB-65   | 238 | 350 | 212 | 800  | 750  | 150 | 47.5 | 465 | 100 | 835  | 20 | 1000 | 42 | 93  | 795 | 112 | 760  | 179 |
| GRB-80   | 309 | 450 | 341 | 1100 | 900  | 150 | 100  | 500 | 125 | 1054 | 20 | 1073 | 42 | 128 | 945 | 227 | 1060 | 182 |
| GRB-100  | 259 | 450 | 391 | 1100 | 1050 | 150 | 100  | 500 | 125 | 1052 | 20 | 1300 | 42 | 128 | 945 | 227 | 1060 | 187 |
| GRB-125A | 510 | 550 | 340 | 1400 | 1200 | 150 | 150  | 500 | 125 | 1617 | 20 | 1600 | 42 | 308 | 900 | 392 | 1360 | 235 |
| GRB-125  | 450 | 550 | 400 | 1400 | 1200 | 150 | 150  | 500 | 125 | 1613 | 20 | 1600 | 42 | 308 | 900 | 392 | 1360 | 263 |
| GRB-150  | 437 | 550 | 513 | 1500 | 1400 | 150 | 150  | 500 | 125 | 1605 | 20 | 1800 | 42 | 328 | 900 | 571 | 1460 | 275 |

mm.

## Complete set dimension (Sound proof packaged installation)

For GRB-200A - GRB-300



| Model    | A   | B   | C   | D    | E    | F   | G   | H   | I    | J   | K    | L  | M    | N  | P   | Q   | R   | S    | T   | W   | U    | V   | mm. |
|----------|-----|-----|-----|------|------|-----|-----|-----|------|-----|------|----|------|----|-----|-----|-----|------|-----|-----|------|-----|-----|
| GRB-200A | 373 | 352 | 583 | 1700 | 1600 | 300 | 192 | 700 | 1500 | 200 | 2089 | 20 | 1900 | 42 | 190 | 313 | 410 | 1460 | 800 | 337 | 650  | 335 |     |
| GRB-200  | 367 | 402 | 533 | 1700 | 1600 | 300 | 198 | 700 | 1500 | 200 | 2079 | 20 | 1900 | 42 | 190 | 313 | 410 | 1460 | 800 | 337 | 650  | 335 |     |
| GRB-250  | 368 | 477 | 457 | 1850 | 1600 | 300 | 348 | 700 | 1650 | 200 | 2250 | 20 | 2200 | 42 | 190 | 313 | 710 | 1610 | 800 | 337 | 650  | 355 |     |
| GRB-300A | 468 | 548 | 378 | 2250 | 1800 | 300 | 608 | 700 | 2000 | 250 | 2205 | 20 | 2500 | 42 | 325 | 273 | 646 | 1960 | 800 | 493 | 765  | 417 |     |
| GRB-300  | 565 | 400 | 610 | 2150 | 2100 | 300 | 325 | 700 | 1900 | 250 | 2327 | 20 | 2850 | 42 | 400 | 325 | 450 | 1860 | 800 | 675 | 1000 | 562 |     |

**Remark:** Larger models are available upon request.

## Welcome to ask for the following product catalogue



### Pump series

- Submersible pump series
- On land pump series
- Special pump series
- Fire fighting pump series



### Mixing and flow Propeller series

- Mixer series
- Flow propeller series



### Aerating oxygen Inputting series

- Aerator series
- Disc diffuser series
- Diffuser series



### Blower series

- Three-lobe roots blower series
- Pressure boost roots blower



### Sludge treatment equipment and others

- Solid liquid separation series
- Dissolving equipment
- Conveying equipment



**GSD Industrial Co.,Ltd**

本型录内容如有变更，恕不另行通知。  
We reserve the right to change content without notice.

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