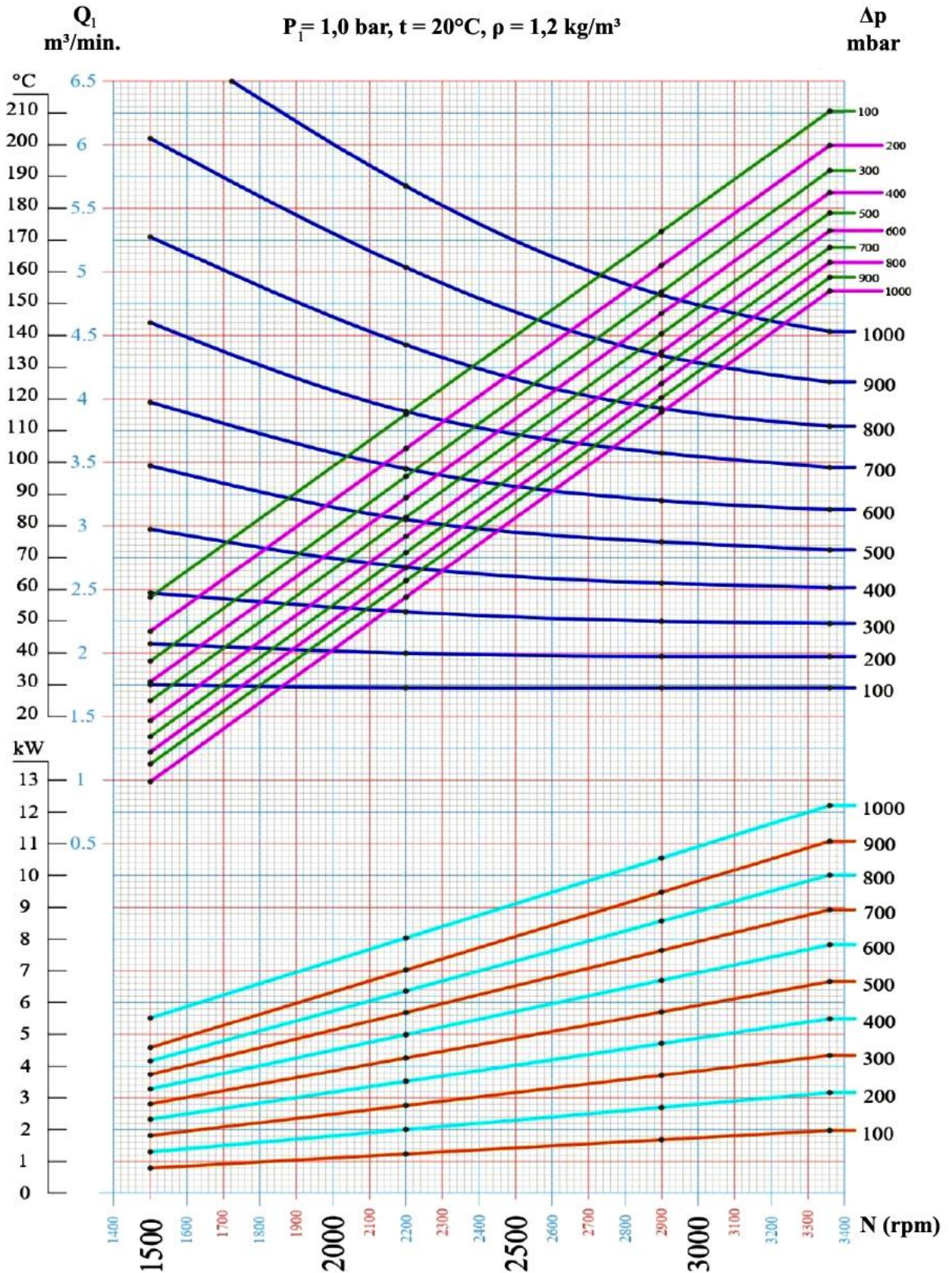


# PB112 Twin-Lobe Roots Blower

## Flow, Pressure and Power Diagram

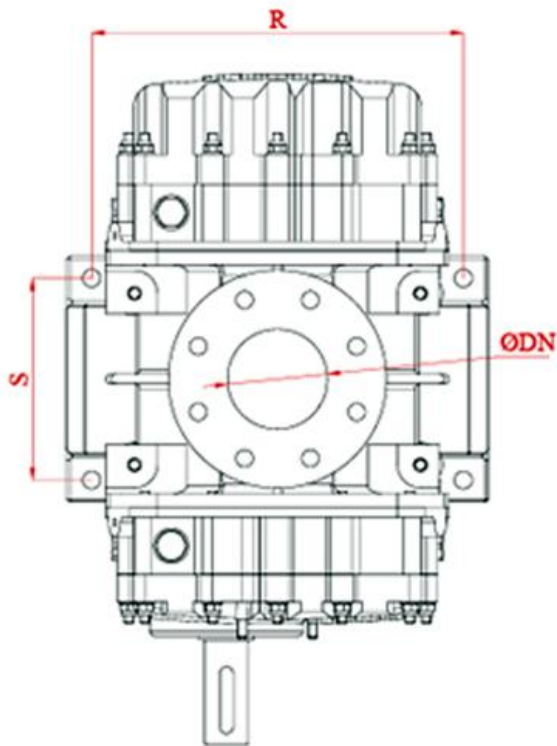
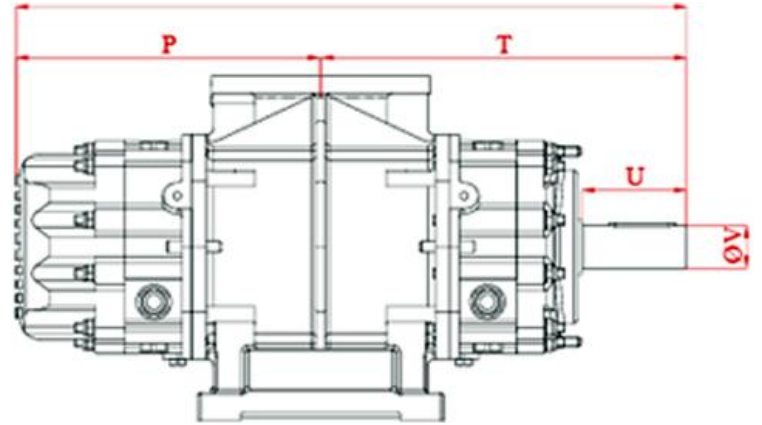
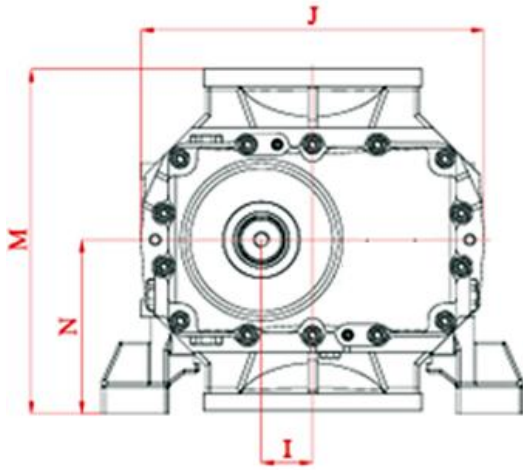


## PB112 Twin-Lobe Blower Pressure and Volume Values

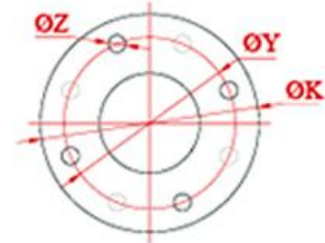
$$P_1 = 1,0 \text{ bar}, t = 20^\circ\text{C}, \rho = 1,2 \text{ kg/m}^3$$

| 1500 rpm.  |                      |       |      | 2200 rpm.  |                      |       |      | 2900 rpm.  |                      |       |      | 3360 rpm.  |                      |       |      |
|------------|----------------------|-------|------|------------|----------------------|-------|------|------------|----------------------|-------|------|------------|----------------------|-------|------|
| $\Delta p$ | Flow                 | Power | Heat | $\Delta p$ | Flow                 | Power | Heat | $\Delta p$ | Flow                 | Power | Heat | $\Delta p$ | Flow                 | Power | Heat |
| mbar       | m <sup>3</sup> /min. | kW    | °C   | mbar       | m <sup>3</sup> /min. | kW    | °C   | mbar       | m <sup>3</sup> /min. | kW    | °C   | mbar       | m <sup>3</sup> /min. | kW    | °C   |
| 100        | 2,44                 | 0,79  | 30   | 100        | 3,88                 | 1,23  | 29   | 100        | 5,32                 | 1,68  | 29   | 100        | 6,26                 | 1,97  | 29   |
| 200        | 2,17                 | 1,30  | 43   | 200        | 3,61                 | 2,00  | 40   | 200        | 5,05                 | 2,70  | 39   | 200        | 6,00                 | 3,16  | 39   |
| 300        | 1,94                 | 1,81  | 59   | 300        | 3,39                 | 2,76  | 53   | 300        | 4,84                 | 3,71  | 50   | 300        | 5,80                 | 4,33  | 49   |
| 400        | 1,82                 | 2,33  | 79   | 400        | 3,22                 | 3,52  | 67   | 400        | 4,67                 | 4,71  | 62   | 400        | 5,62                 | 5,49  | 61   |
| 500        | 1,63                 | 2,81  | 99   | 500        | 3,07                 | 4,26  | 82   | 500        | 4,51                 | 5,71  | 75   | 500        | 5,46                 | 6,66  | 72   |
| 600        | 1,47                 | 3,28  | 118  | 600        | 2,92                 | 4,99  | 98   | 600        | 4,37                 | 6,70  | 88   | 600        | 5,32                 | 7,82  | 85   |
|            |                      |       |      | 700        | 2,79                 | 5,69  | 116  | 700        | 4,24                 | 7,64  | 103  | 700        | 5,19                 | 8,92  | 98   |
|            |                      |       |      | 800        | 2,67                 | 6,36  | 137  | 800        | 4,12                 | 8,56  | 117  | 800        | 5,07                 | 10,01 | 111  |
|            |                      |       |      |            |                      |       |      | 900        | 4,01                 | 4,47  | 134  | 900        | 4,96                 | 11,08 | 125  |
|            |                      |       |      |            |                      |       |      |            |                      |       |      | 1000       | 4,85                 | 12,20 | 141  |

# PB112 Bare Shaft Dimensions

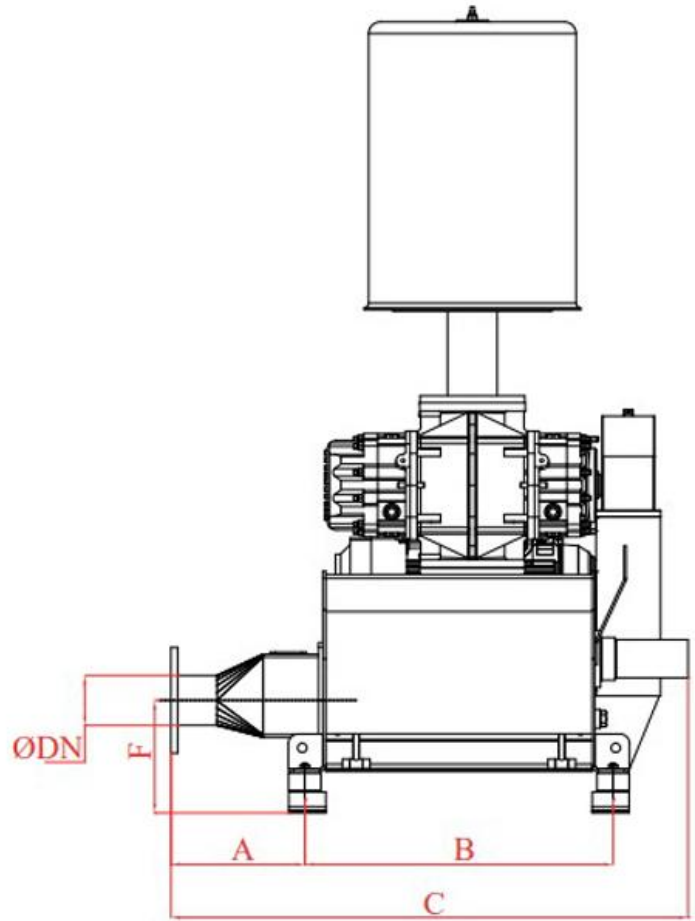
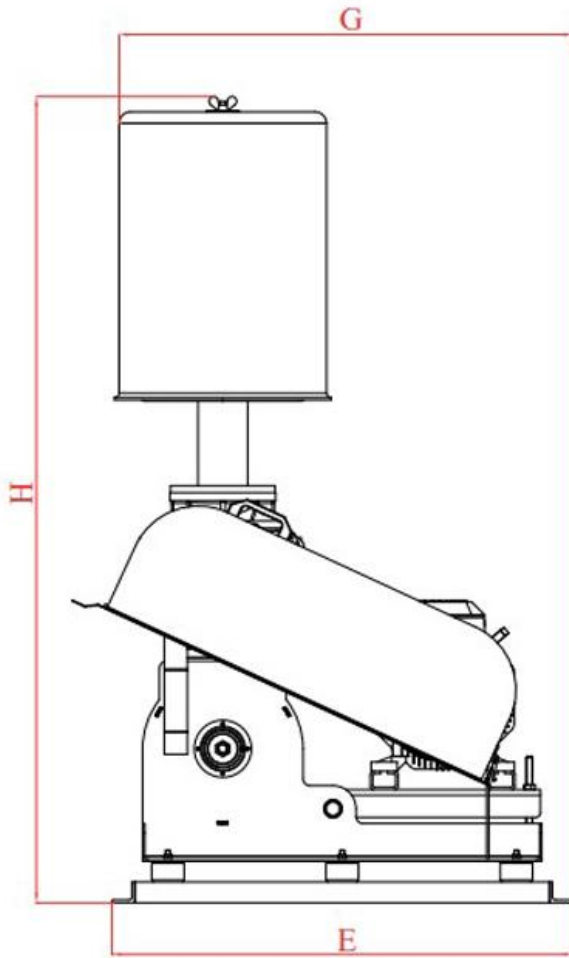


DIN 2576 (PN 10)



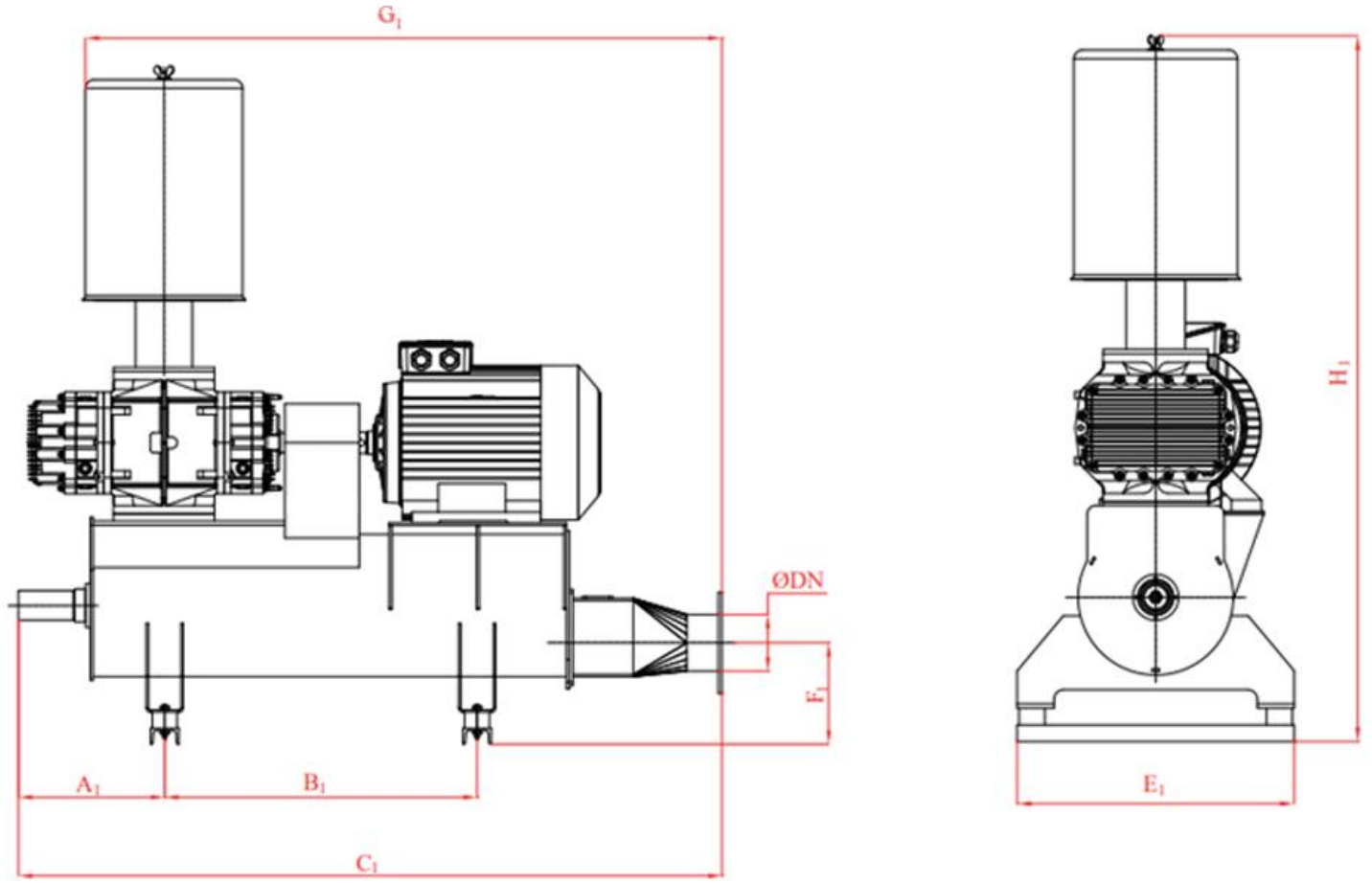
| Type  | ØDN | ØK  | L   | M     | N     | P     | R   | S   | T     | U  | ØV | ØY  | ØZ | Hole Qty | Weight |
|-------|-----|-----|-----|-------|-------|-------|-----|-----|-------|----|----|-----|----|----------|--------|
| PB112 | 80  | 200 | 545 | 325,5 | 165,5 | 247,5 | 346 | 100 | 297,5 | 88 | 38 | 160 | 18 | 8        | 105 Kg |

# PB112 Belt Driven Dimensions



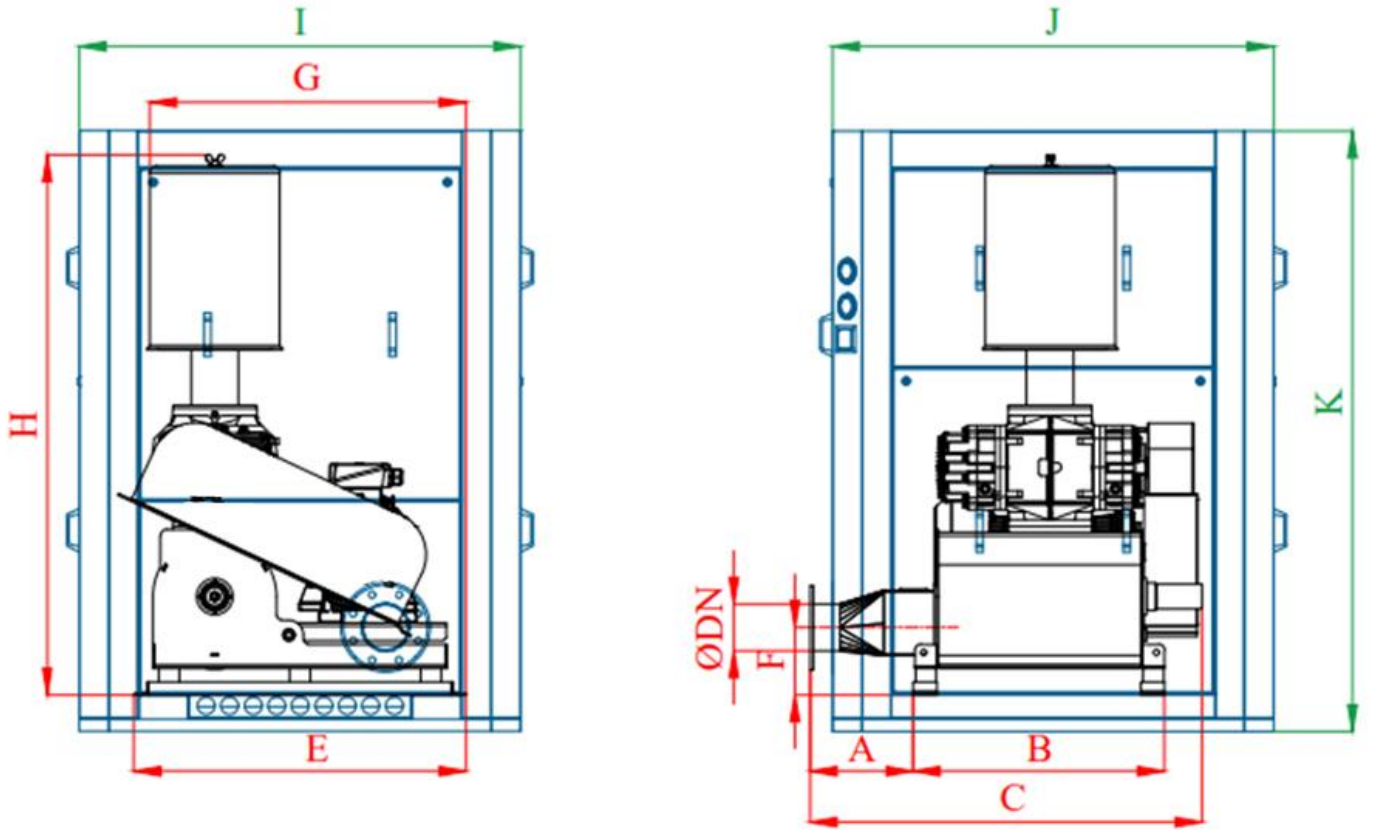
| Type  | A   | B   | C   | ØDN | E   | F   | G   | H    | Weight |
|-------|-----|-----|-----|-----|-----|-----|-----|------|--------|
| PB112 | 245 | 520 | 922 | 80  | 800 | 205 | 825 | 1288 | 215 Kg |

# PB112 Direct Driven Dimensions



| Type  | A <sub>1</sub> | B <sub>1</sub> | C <sub>1</sub> | ØDN | E <sub>1</sub> | F <sub>1</sub> | G <sub>1</sub> | H <sub>1</sub> | I    | J   | Weight |
|-------|----------------|----------------|----------------|-----|----------------|----------------|----------------|----------------|------|-----|--------|
| PB112 | 319            | 711            | 1437           | 80  | 500            | 225            | 1280           | 1402           | 42,7 | 295 | 215 Kg |

# PB112 Acoustic Cabin Dimensions



| Type  | A   | B   | C   | ØDN | E   | F   | G   | H    | I x J x K      | Weight |
|-------|-----|-----|-----|-----|-----|-----|-----|------|----------------|--------|
| PB112 | 245 | 520 | 922 | 80  | 800 | 205 | 825 | 1288 | 1100x1100x1544 | 500 Kg |