

499.3.701-3

Vacuum cleaner motor performance

DOMEL®

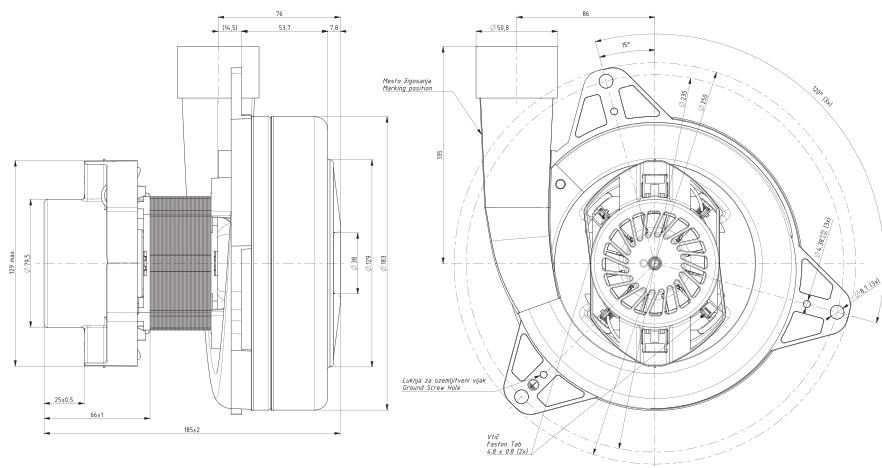
Vacuum cleaner motors 499.3.701-3 / 1800W /120V / 60Hz are used for wet and dry aspiration. Technical data and dimensions are given in the table. Vacuum motors consist of universal commutator motor and two fan stages. The rotor is located between two ball bearings enabling vertical or horizontal installation of motor. The motor is designed for insulation class 105(A) and constructed according to EN 60335-1.

Technical data:

| | | | | |
|-------------------------|---------------|----|-------------|----------------------------|
| Normal operation: | P_m | >= | 1760 | W |
| Vacuum: | P_{max} | >= | 29 116,2 | kPa in H ₂ O |
| Air Flow at $\phi 50$: | $Q_{\phi 50}$ | >= | 53 113 | dm ³ /s CFM |
| Air Power: | P_{2max} | >= | 650 | W |
| Efficiency: | η_{max} | >= | 37 | % |
| Mass: | m | = | 3,36 | kg |

Max. power 1850W

| | |
|----------------|--------|
| Voltage: | 120 V |
| Frequency: | 60 Hz |
| Nominal Power: | 1800 W |



Dimensional and performance data are subject to change without notice.

| Orifice | | Current | Input Power | Speed | Pressure | | Air Flow | | Air power | Efficiency |
|---------|-------|---------|-------------|-------------------|----------|---------------------|--------------------|-------|-----------|------------|
| mm | in* | A | W | min ⁻¹ | kPa | in H ₂ O | dm ³ /s | CFM | W | % |
| 50 | 2 | 16,59 | 1868 | 13697 | 1,7 | 6,2 | 62,2 | 132,3 | 106 | 5,7 |
| 40 | 1 1/2 | 16,42 | 1848 | 13736 | 3,9 | 19,7 | 59,5 | 122,9 | 229 | 12,4 |
| 30 | 1 1/8 | 16,06 | 1811 | 13911 | 9,5 | 44,2 | 51,8 | 104,6 | 490 | 27,1 |
| 23 | 7/8 | 15,70 | 1771 | 14089 | 17,0 | 71,7 | 40,0 | 80,7 | 678 | 38,3 |
| 19 | 3/4 | 14,80 | 1676 | 14658 | 21,6 | 86,3 | 30,4 | 64,7 | 655 | 39,1 |
| 16 | 5/8 | 13,86 | 1577 | 15249 | 24,6 | 99,1 | 22,9 | 47,8 | 562 | 35,6 |
| 13 | 1/2 | 12,93 | 1480 | 15909 | 26,8 | 108,1 | 15,7 | 32,0 | 421 | 28,5 |
| 10 | 3/8 | 12,01 | 1382 | 16644 | 27,9 | 112,5 | 9,5 | 18,6 | 265 | 19,2 |
| 6 | 1/4 | 11,02 | 1276 | 17513 | 28,9 | 116,3 | 4,1 | 8,6 | 120 | 9,4 |
| 0 | 0 | 10,32 | 1201 | 18218 | 30,5 | 122,4 | 0,0 | 0,0 | 0 | 0,0 |

Data above represent the performance of an average motor sample. Individual data may vary due to normal manufacturing variations.

* Orifice in inch is only approximative.