DVP

YOUR VACUUM
PROFESSIONALS

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DVP

YOUR VACUUM PROFESSIONALS

1973 2023

**Since 1973, we have been developing the science of vacuum technology by supporting the evolution of industrial processes. Our 50 years of experience makes us respected experts and our passion for challenges allows us to achieve ever higher levels of performance.**

# VACUUM PROFESSIONALS FOR 50 YEARS.

Passion, dedication and the ability to think outside the box have always been in the company's DNA. Ever since founder **Mario Zucchini** recognised an unexpressed need back in 1973 and then had the ability to interpret the product in a completely new way. This ability to listen and the vocation for innovation are still alive and well at DVP. A winning company, built with commitment and dedication, and still led with passion by his sons and driven by a team of Vacuum Professionals capable of making a real difference.

The result of half a century of experience in the sector is the production of quality, reliable and durable vacuum pumps and compressors developed for precise and multiple industrial applications: packaging, bottling, suction, compression, lifting, handling, oxygenation, drying. These are just some of the production processes that DVP vacuum technology can make more efficient, safe, competitive and sustainable.

# Responsibility.

We are the solid and reliable company we are today because we have always approached our work with a strong sense of responsibility: towards our customers, our colleagues and also towards our community. It is an approach that keeps us constantly striving for excellence and maximum transparency.

# Collaboration.

It is our most effective tool to arrive earlier at more rewarding results for everyone: for us who work at DVP and for our customers. We believe in sharing knowledge, we value people's experience and we listen to our customers' needs because they are the primary driver of our research.

# Transparency.

It is for us a value in all its possible meanings. We promote transparency between companies as synonymous with the fairness that is the basis of a fruitful technological partnership. We also believe in transparency between people, in the sense of openness to interpersonal relations and the inclination to exchange knowledge on which our cooperative spirit is based.

# Sustainability.

Acting responsibly at this historic moment means giving the highest priority to the issue of sustainability. Every person at DVP, and every company department, recognises the principles and pursues the goals of the UN Agenda 2023 and the Green New Deal EU according to the Environment, Social and Governance approach. And because we are used to backing up our promises with actions, we have pledged, among other things, to reduce $CO_2$ emissions by 5% over the next five years.

## Cutting-edge production technologies to guarantee volumes, flexibility and high quality.

We are an industrial force with great design, production and consultancy capabilities. Over the past 50 years, we have invested in technology and expertise to enhance the performance of our products and our pre- and after-sales service. At our research centre, **DVP LAB**, ideas and creativity meet the technical knowledge of our professionals and find application in concrete, high-performance solution proposals. Technical solutions that consolidate our leadership in the ability to provide timely satisfaction of specific customer needs.

The design develops and materialises the studied solutions using modern predictive operating systems that allow each phase to be kept under control and awareness of the end result. Significant investments in production have enabled the machining area to be equipped and upgraded with advanced robotic systems. Production processes were reorganised by implementing a new assembly layout with pull-in and just-in-time logic and a production supermarket. The individual work areas have also been supplemented with new, more strategic workstations, tailored to the product to be assembled.

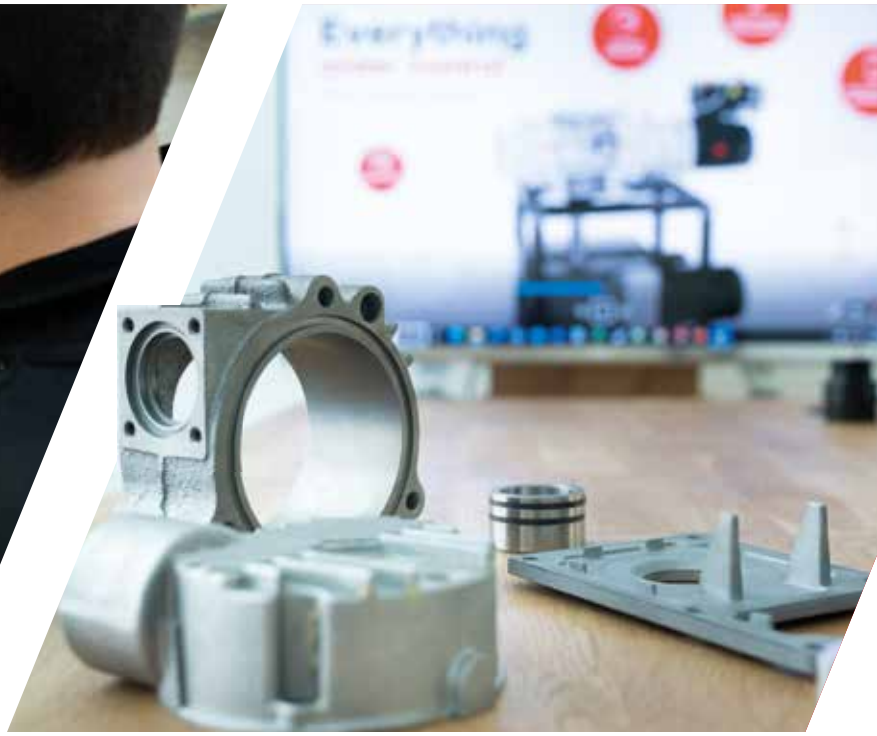

THE FORCE OF PRODUCTION.

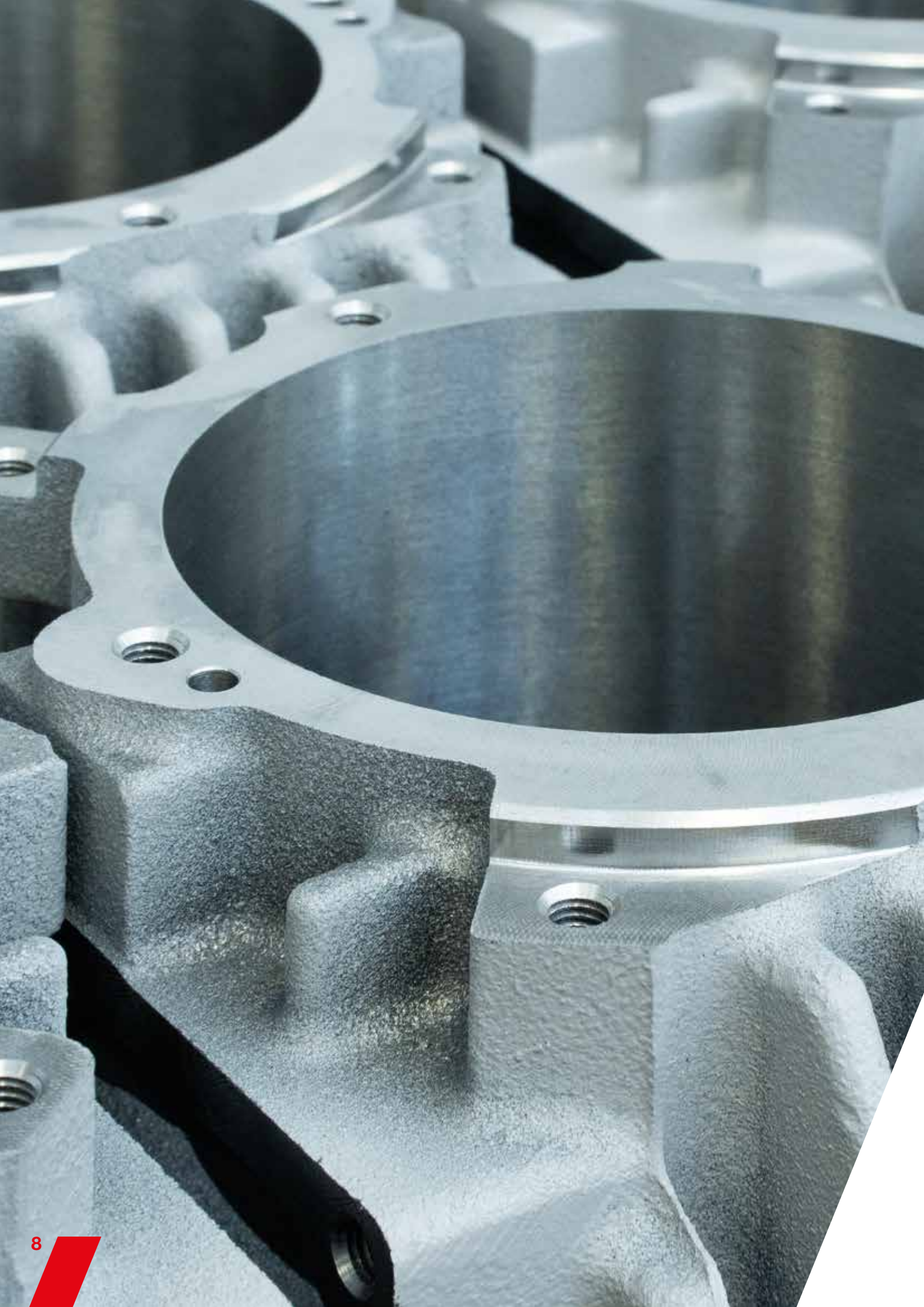
**An unrivalled mix of experience, technological know-how, innovative capacity and manufacturing strength.**

# THE VALUE OF OUR CONSULTANCY SYNERGY.

## Vacuum Professionals at the service of those who want safer, more efficient and innovative production processes.

What makes us truly unique, and of irreplaceable value to our customers, is our ability to create a perfect synergy between technological innovation, design, production and high-profile technical advice. Faced with each new stimulus, whether it comes from a customer or the market, our Vacuum Professionals take the field armed with a consolidated wealth of skills and a powerful passion for challenges. A team of trained technicians who actively listen to examine each case, understand the needs of their interlocutor and find valuable, customised solutions; new solutions that always arise from in-depth analysis and rigorous technical evaluation.





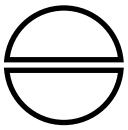
# PRODUCTS.

# **LUBRICATED ROTARY VANE VACUUM** PUMPS

| | FREQUENCY | NOMINAL CAPACITY | TOTAL FINAL PRESSURE (ABS.) | MOTOR POWER | NOMINAL R.P.M. | NOISE LEVEL (ISO 2151) | WEIGHT |
|---|---|---|---|---|---|---|---|
| | | $m^3/h$ | mbar – hPa | (1~/3~) kW | n/min | dB(A) | (1~/3~) Kg |
| **LC 2** | 50 Hz | 2 | 10 | 0.12 | 2800 | 48 | 5.4 |
| | 60 Hz | 2.5 | | 0.15 | 3300 | 52 | |
| **LC 4** | 50 Hz | 4 | 2 | 0.12 | 2800 | 48 | 5.4 |
| | 60 Hz | 4.8 | | 0.15 | 3300 | 52 | |
| **LC 8** | 50 Hz | 8 | 2 | 0.25 | 2800 | 56 | 10 |
| | 60 Hz | 9 | | 0.3 | 3300 | 58 | |
| **LC 12** | 50 Hz | 12 | 2 | 0.45/0.37 | 2800 | 62 | 14/12.5 |
| | 60 Hz | 14 | | 0.55/0.45 | 3300 | 64 | |
| **LC 12WR** | 50 Hz | 12 | 50 | –/0.37 | 2800 | 62 | –/15 |
| | 60 Hz | 14 | | –/0.45 | 3300 | 64 | |
| **LC 20** | 50 Hz | 20 | 2 | 0.75 | 2800 | 64 | 19/17 |
| | 60 Hz | 24 | | 0.9 | 3300 | 67 | |
| **LC 25** | 50 Hz | 25 | 0.5 | 0.75 | 1400 | 57 | 26/25 |
| | 60 Hz | 29 | | 0.9 | 1700 | 59 | |
| **LC 25WR** | 50 Hz | 25 | 4 | 0.75 | 1400 | 57 | 26.5/25.5 |
| | 60 Hz | 29 | | 0.9 | 1700 | 59 | |
| **LC 40** | 50 Hz | 40 | 0.1 | 1.1 | 1400 | 64 | 46.5/42 |
| | 60 Hz | 48 | | 1.35 | 1700 | 66 | |
| **LC 40WR** | 50 Hz | 40 | 4 | –/1.1 | 1400 | 64 | –/42 |
| | 60 Hz | 48 | | –/1.35 | 1700 | 66 | |
| **LC 60** | 50 Hz | 60 | 0.1 | 1.5 | 1400 | 66 | 46/44 |
| | 60 Hz | 72 | | 1.8 | 1700 | 68 | |
| **LC 60WR** | 50 Hz | 60 | 4 | –/1.5 | 1400 | 66 | –/44 |
| | 60 Hz | 72 | | –/1.8 | 1700 | 68 | |
| **LC 106** | 50 Hz | 106 | 0.1 | 1.5 | 1400 | 66 | –/70.5 |
| | 60 Hz | 127 | | 1.8 | 1700 | 68 | |
| **LC 106WR** | 50 Hz | 106 | 4 | –/2.2 | 1400 | 66 | –/71 |
| | 60 Hz | 127 | | –/2.7 | 1700 | 68 | |
| **LC 106 Kzero** | 50 Hz | 106 | 4 | –/2.2 | 1400 | 67 | –/70.5 |
| | 60 Hz | 127 | | –/2.7 | 1700 | 69 | |
| **LC 151** | 50 Hz | 151 | 0.1 | –/3.3 | 1400 | 68 | –/80 |
| | 60 Hz | 181 | | –/3.7 | 1700 | 70 | |
| **LC 151WR** | 50 Hz | 151 | 4 | –/3.3 | 1400 | 68 | –/80.5 |
| | 60 Hz | 181 | | –/3.7 | 1700 | 70 | |
| **LC 151 Kzero** | 50 Hz | 151 | 4 | –/3.3 | 1400 | 69 | –/80 |
| | 60 Hz | 181 | | –/3.7 | 1700 | 71 | |
| **LC 205** | 50 Hz | 205 | 0.1 | –/5.5 | 1400 | 70 | –/170 |
| | 60 Hz | 245 | | –/6.6 | 1700 | 73 | |
| **LC 205HV** | 50 Hz | 205 | 0.1 | –/5.5 | 1400 | 69 | –/170 |
| | 60 Hz | 245 | | –/6.6 | 1700 | 71 | |
| **LC 205 Kzero** | 50 Hz | 205 | 0.3 | –/5.5 | 1400 | 70 | –/170 |
| | 60 Hz | 245 | | –/6.6 | 1700 | 73 | |
| **LC 305** | 50 Hz | 305 | 0.1 | –/7.5 | 1400 | 71 | –/180 |
| | 60 Hz | 365 | | –/9 | 1700 | 74 | |
| **LC 305HV** | 50 Hz | 305 | 0.1 | –/7.5 | 1400 | 71 | –/180 |
| | 60 Hz | 365 | | –/9 | 1700 | 73 | |
| **LC 305 Kzero** | 50 Hz | 305 | 0.3 | –/7.5 | 1400 | 71 | –/180 |
| | 60 Hz | 365 | | –/9 | 1700 | 74 | |

## SYSTEMS WITH LUBRICATED ROTARY VANE VACUUM PUMPS

| | FREQUENCY | NOMINAL CAPACITY | TOTAL FINAL PRESSURE (ABS.) | MOTOR POWER | NOMINAL R.P.M. | NOISE LEVEL (ISO 2151) | WEIGHT |
|---|---|---|---|---|---|---|---|
| | | $m^3/h$ | mbar – hPa | (1~/3~) kW | n/min | dB(A) | (1~/3~) Kg |
| XC 405 | 50 Hz | 410 | 0.1 | –/2x 5.5 | 1400 | 73 | –/450 |
| | 60 Hz | 490 | | –/2x 6.6 | 1700 | 76 | |
| XC 605 | 50 Hz | 610 | 0.1 | –/2x 7.5 | 1400 | 74 | –/470 |
| | 60 Hz | 730 | | –/2x 9 | 1700 | 77 | |
| XC 905 | 50 Hz | 915 | 0.1 | –/3x 7.5 | 1400 | 76 | –/740 |
| | 60 Hz | 1095 | | –/3x 9 | 1700 | 79 | |



## HIGH VACUUM PUMPS

| | FREQUENCY | STAGES | NOMINAL CAPACITY | TOTAL FINAL PRESSURE (ABS.) | MOTOR POWER | WEIGHT |
|---|---|---|---|---|---|---|
| | | | $m^3/h$ | mbar – hPa | (1~/3~) kW | (1~/3~) Kg |
| RD 2D | 50 Hz | 2 | 1.8 | ≤0.50 | 0.12/– | 5/– |
| | 60 Hz | | 2 | | 0.15/– | |
| RC 4M | 50 Hz | 1 | 4 | 0.1 | 0.37 | 11/9 |
| | 60 Hz | | 4.6 | | | |
| RC 4D | 50 Hz | 2 | 4 | 0.01 | 0.37 | 12/10 |
| | 60 Hz | | 4.6 | | | |
| RC 8M | 50 Hz | 1 | 8 | 0.1 | 0.37 | 12/10 |
| | 60 Hz | | 9.5 | | | |
| RC 8D | 50 Hz | 2 | 8 | 0.01 | 0.37 | 13.2/11.2 |
| | 60 Hz | | 9.5 | | | |
| RC 50M | 50 Hz | 1 | 50 | 0.05 | –/1.1 | –/33.5 |
| | 60 Hz | | 60 | | –/1.35 | |
| DB 2D | 50 Hz | 2 | 2 | 0.005 | 0.25/– | 10/– |
| | 60 Hz | | 2.4 | | 0.3/– | |
| DC 4D | 50 Hz | 2 | 5.6 | 0.005 | 0.75/0.55 | 22.5/19.5 |
| | 60 Hz | | 6.4 | | 0.9/0.66 | |
| DC 8D | 50 Hz | 2 | 8.2 | 0.005 | 0.75/0.55 | 23.5/20.5 |
| | 60 Hz | | 9.6 | | 0.9/0.66 | |
| DC 16D | 50 Hz | 2 | 16 | 0.005 | 0.75/0.55 | 25.5/22.5 |
| | 60 Hz | | 17 | | 0.9/0.66 | |
| DC 16DEX | 50 Hz | 2 | 16 | 0.005 | 0.75/0.55 | 25.5/22.5 |
| | 60 Hz | | 17 | | 0.9/0.66 | |

# **OIL-FREE ROTARY VANE VACUUM** PUMPS AND COMPRESSORS

| | FREQUENCY | NOMINAL CAPACITY | TOTAL FINAL PRESSURE (ABS.) | MAXIMUM OVERPRESSURE | MOTOR POWER | NOISE LEVEL @ PUMP (ISO 2151) | NOISE LEVEL @ COMPRESSOR (ISO 2151) | WEIGHT |
|---|---|---|---|---|---|---|---|---|
| | | $m^3/h$ | mbar – hPa | bar – $10^5$Pa | (1~/3~) kW | dB(A) | dB(A) | (1~/3~) Kg |
| **SC 5** | 50 Hz | 5 | 120 | 0.8 | 0.12 | 59 | 62 | 5.4 |
| | 60 Hz | 6 | | | 0.15 | 61 | 64 | |
| **SC 5CC** | 24V d.c. | 5 | 150 | 0.5 | 0.9 | 59 | 62 | 4.5 |
| **SC 8** | 50 Hz | 8 | 150 | 0.8 | 0.25 | 59 | 60 | 8.5 |
| | 60 Hz | 9 | | | 0.3 | 61 | 62 | |
| **SC 8CC** | 24V d.c. | 8 | 150 | 0.8 | 0.28 | 67 | 67 | 11 |
| **SB 10** | 50 Hz | 10 | 120 | – | 0.37 | 64 | – | 15.5/14 |
| | 60 Hz | 12 | | | 0.45 | 66 | – | |
| **SB 10TV** | 50 Hz | 10 | 120 | – | 0.37 | 64 | – | 15.5/14 |
| | 60 Hz | 12 | | | 0.45 | 66 | – | |
| **CB 10** | 50 Hz | 10 | – | 0.6 | 0.37 | – | 64 | 15.5/14 |
| | 60 Hz | 12 | | | 0.45 | – | 66 | |
| **SB 12** | 50 Hz | 12 | 120 | – | 0.37 | 64 | – | 14.5/13.5 |
| | 60 Hz | 14 | | | 0.45 | 66 | – | |
| **CB 12** | 50 Hz | 12 | – | 0.6 | 0.37/0.45 | – | 64 | 14.5/13.5 |
| | 60 Hz | 14 | | | –/0.45 | – | 66 | |
| **SC 16** | 50 Hz | 16 | 120 | 1 | 0.75 | 63 | 63 | 31/33 |
| | 60 Hz | 19 | | | 0.9 | 65 | 65 | |
| **SC 25** | 50 Hz | 25 | 120 | 0.6 | 0.75 | 65 | 65 | 30.5/32.5 |
| | 60 Hz | 29 | | | 0.9 | 67 | 67 | |
| **SC 40** | 50 Hz | 40 | 120 | 0.6 | 1.3 | 68 | 68 | 41.5/45 |
| | 60 Hz | 48 | | | 1.5 | 67 | 67 | |
| **SC 60** | 50 Hz | 60 | 150 | – | –/1.5 | 70 | – | 66 |
| | 60 Hz | 70 | | | –/1.8 | 72 | – | |
| **CC 60** | 50 Hz | 60 | – | 1 | –/2.2 | – | 70 | 70 |
| | 60 Hz | 70 | | 1.2 | –/3 | – | 72 | |
| **SC 80** | 50 Hz | 80 | 150 | – | 2.2 | 72 | – | 71 |
| | 60 Hz | 90 | | | 3 | 74 | – | |
| **CC 80** | 50 Hz | 80 | – | 1.2 | –/3.4 | – | 72 | 74 |
| | 60 Hz | 90 | | 1 | –/4 | – | 74 | |
| **SC 100** | 50 Hz | 100 | 150 | – | –/3.4 | 73 | – | 87 |
| | 60 Hz | 115 | | | –/4 | 75 | – | |
| **CC 100** | 50 Hz | 100 | – | 1.3 | –/4 | – | 73 | 93 |
| | 60 Hz | 115 | | 1.1 | –/4.5 | – | 75 | |
| **SC 140** | 50 Hz | 130 | 150 | – | –/3.4 | 76 | – | 95 |
| | 60 Hz | 150 | 200 | | –/4 | 78 | – | |
| **CC 140** | 50 Hz | 130 | – | 1.3 | –/5.5 | – | 76 | 97 |
| | 60 Hz | 150 | | 1.2 | –/6.6 | – | 78 | |

# **LOBE** PUMPS

| | WITH AND WITHOUT MOTOR | | | | |
|---|---|---|---|---|---|
| | FREQUENCY | NOMINAL CAPACITY | MAX PRESSURE DIFFERENCE DURING CONTINUOUS OPERATION | MOTOR POWER | WEIGHT WITHOUT / WITH MOTOR |
| | | $m^3/h$ | mbar | (3~) kW | Kg |
| BCA 300 | 50 Hz | 279 | 80 | 1.1 | 76/85 |
| | 60 Hz | 334 | | 1.5 | |
| BCA 500 | 50 Hz | 504 | 80 | 2.2 | 115/130 |
| | 60 Hz | 605 | | 3 | |
| BCA 1000 | 50 Hz | 1008 | 80 | 4 | 208/240 |
| | 60 Hz | 1210 | | 5.5 | |
| BCA 1500 | 50 Hz | 1433 | 60 | 4 | 245/270 |
| | 60 Hz | 1720 | | 5.5 | |
| BCA 2000 | 50 Hz | 2045 | 50 | 5.5 | 320/360 |
| | 60 Hz | 2454 | | 7.5 | |
| BCA 3000 | 50 Hz | 2887 | 40 | 7.5 | 360/400 |
| | 60 Hz | 3465 | | 11 | |

| | WITH ADAPTSHIELD | | | |
|---|---|---|---|---|
| | FREQUENCY | NOMINAL CAPACITY | MOTOR POWER | WEIGHT |
| | | $m^3/h$ | (3~) kW | Kg |
| BCA 300 | 50 Hz | 279 | 1.1 | 89 |
| | 60 Hz | 334 | | |
| BCA 500 | 50 Hz | 504 | 2.2 | 135 |
| | 60 Hz | 605 | | |
| BCA 1000 | 50 Hz | 1008 | 4 | 245 |
| | 60 Hz | 1210 | | |
| BCA 1500 | 50 Hz | 1433 | 4 | 275 |
| | 60 Hz | 1720 | | |
| BCA 2000 | 50 Hz | 2045 | 5.5 | 369 |
| | 60 Hz | 2454 | | |
| BCA 3000 | 50 Hz | 2887 | 7.5 | 409 |
| | 60 Hz | 3465 | | |

# **CBL SYSTEMS WITH LOBE** PUMPS

| | FREQUENCY | LOBE PUMP | PRIMARY PUMP | INSTALLED POWER | CAPACITY (@ 5 MBAR) | FINAL PRESSURE (ABS.) | NOISE LEVEL (@ 1 MBAR) | INTAKE / OUTLET | WEIGHT |
|---|---|---|---|---|---|---|---|---|---|
| | | | | kW | $m^3/h$ | mbar | dB(A) | DN/" G | Kg |
| CBL 106/300 | 50 Hz | BCA 300 | LC 106 | 3.3 | 239 ÷ 282 | $6 \times 10^{-3}$ | 72 | 80 / 1"1/4 | 206 |
| | 60 Hz | | | 3.8 | 246 ÷ 290 | | 74 | | |
| CBL 205/500 | 50 Hz | BCA 500 | LC 205 | 7.7 | 450 ÷ 528 | $9 \times 10^{-3}$ | 74 | 100 / 2" | 350 |
| | 60 Hz | | | 8.8 | 461 ÷ 540 | | 76 | | |
| CBL 305/500 | 50 Hz | BCA 500 | LC 305 | 9.7 | 475 ÷ 562 | $9 \times 10^{-3}$ | 74 | 100 / 2" | 360 |
| | 60 Hz | | | 11.2 | 480 ÷ 570 | | 77 | | |
| CBL 305/1000 | 50 Hz | BCA 1000 | LC 305 | 11.5 | 858 ÷ 1003 | $9 \times 10^{-3}$ | 75 | 100 / 2" | 470 |
| | 60 Hz | | | 13 | 872 ÷ 1022 | | 77 | | |
| CBL 2x305/1500 | 50 Hz | BCA 1500 | 2x LC 305 | 19 | 1306 ÷ 1540 | $9 \times 10^{-3}$ | 76 | 150 / 2" | 756 |
| | 60 Hz | | | 22 | 1319 ÷ 1560 | | 79 | | |
| CBL 2x305/2000 | 50 Hz | BCA 2000 | 2x LC 305 | 20.5 | 1760 ÷ 2075 | $9 \times 10^{-3}$ | 76 | 150 / 2" | 846 |
| | 60 Hz | | | 23.5 | 1780 ÷ 2110 | | 79 | | |
| CBL 3x305/3000 | 50 Hz | BCA 3000 | 3x LC 305 | 30 | 2575 ÷ 3100 | $9 \times 10^{-3}$ | 78 | 150 / 2" | 1066 |
| | 60 Hz | | | 34.5 | 2615 ÷ 3125 | | 80 | | |

## **CLAW** PUMPS AND COMPRESSORS

| | FREQUENCY | NOMINAL CAPACITY | TOTAL FINAL PRESSURE (ABS.) | MAXIMUM OVERPRESSURE | MOTOR POWER | NOISE LEVEL (ISO 2151) | WEIGHT |
|---|---|---|---|---|---|---|---|
| | | $m^3/h$ | mbar – hPa | bar – $10^5$Pa | (3~) kW | dB(A) | Kg |
| **PA 155** | **50 Hz** | 155 | 150 | - | 3 | 78 | 135 |
| | **60 Hz** | 186 | | | 3.6 | 81 | |
| **PA 315** | **50 Hz** | 250 | 200 | - | 5.5 | 79 | 160 |
| | **60 Hz** | 300 | | | 6.6 | 83 | |
| **VA 155** | **50 Hz** | 155 | - | 1.2 | 5.5 | 83 | 143 |
| | **60 Hz** | 186 | | 1 | 6.6 | 86 | |
| **VA 155-1** | **50 Hz** | 155 | - | 2 | 7.5 | 83 | 147 |
| | **60 Hz** | 186 | | 1.8 | 9.2 | 86 | 170 |
| **VA 315** | **50 Hz** | 250 | - | 0.6 | 7.5 | 83 | 160 |
| **VA 315-1** | **50 Hz** | 250 | - | 1 | 9.2 | 83 | 177 |

## **SYSTEMS WITH CLAW** PUMPS

| | FREQUENCY | PUMP TYPE | NOMINAL CAPACITY | TOTAL FINAL PRESSURE (ABS.) | MOTOR POWER | WEIGHT |
|---|---|---|---|---|---|---|
| | | | $m^3/h$ | mbar – hPa | (3~) kW | Kg |
| **CPAP 2x155** | **50 Hz** | 2x PA 155 | 310 | 150 | 2x 3 | 520 |
| **CPAP 2x315** | **50 Hz** | 2x PA 315 | 500 | 200 | 2x 5.5 | 570 |
| **CPAP 3x155** | **50 Hz** | 3x PA 155 | 465 | 150 | 3x 3 | 660 |
| **CPAP 3x315** | **50 Hz** | 3x PA 315 | 750 | 200 | 3x 5.5 | 730 |

# **PISTON** PUMPS AND COMPRESSORS

| | FREQUENCY | NOMINAL CAPACITY | TOTAL FINAL PRESSURE (ABS.) | MAXIMUM OVERPRESSURE | POWER SUPPLY | MOTOR POWER | DUTY TYPE | WEIGHT |
|---|---|---|---|---|---|---|---|---|
| | | l/min | mbar – hPa | bar – $10^5$Pa | V | W | | Kg |
| ZB 12 | 50 Hz | 12 | 250 | 1 | 230 | 60 | S1 | 1.35 |
| | 60 Hz | 14 | | – | | | | |
| | 60 Hz | 14 | | 1 | 115 | 85 | | |
| ZB 12C | 50 Hz | 12 | – | 3 | 230 | 70 | S1 | 1.35 |
| | 60 Hz | 14 | | | | | | |
| ZB 12C CC | d.c. | 12 | – | 3 | 12 | 25 | S3 25% | 0.6 |
| ZB 15 | 50 Hz | 14 | 220 | – | 230 | 95 | S1 | 1.6 |
| | 60 Hz | 18 | | | | 75 | | |
| ZB 20CC | d.c. | 20 | 250 | – | 12 | 25 | S1 | 0.7 |
| | d.c. | | | | 24 | 30 | | |
| ZB 30 | 50 Hz | 28 | 150 | – | 230 | 80 | S1 | 1.9 |
| | 60 Hz | 32 | | | | 90 | | |
| ZB 30CC | d.c. | 30 | 150 | 0.2 | 12 | 75 | S1 | 1 |
| ZA 32 | 50 Hz | 32 | 110 | 3 | 230 | 20 | S1 | 7.1 |
| | 60 Hz | 38 | | | | | | |
| ZA 60S | 50 Hz | 60 | 30 | – | 230 | 27 | S1 | 8.7 |
| | 60 Hz | 70 | | | | | | |
| ZA 100P | 50 Hz | 100 | 80 | – | 230 | 27 | S1 | 8.9 |
| | 60 Hz | 120 | | | | | | |
| ZA 200P | 50 Hz | 186 | 60 | – | 230 | 58 | S1 | 11.5 |
| | 60 Hz | 224 | | | | | | |

# **SINGLE STAGE** BLOWERS

| | | | FLOW RATE | | MOTOR POWER | | VACUUM | | PRESSURE | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | $m^3/h$ | | kW | | mbar | | mbar | |
| | (1~) | (3~) | 50 Hz | 60 Hz | 50 Hz | 60 Hz | 50 Hz | 60 Hz | 50 Hz | 60 Hz |
| **TSL 40** | * | | 70 | 80 | 0.2 | 0.23 | -100 | -120 | +100 | +120 |
| **TSL 40** | | * | 70 | 80 | 0.2 | 0.23 | -100 | -120 | +100 | +120 |
| **TSL 70** | * | | 80 | 98 | 0.25 | 0.5 | -100 | -110 | +110 | +110 |
| **TSL 70** | | * | 80 | 98 | 0.25 | 0.29 | -100 | -110 | +110 | +110 |
| **TSL 80** | * | | 80 | 98 | 0.4 | 0.5 | -110 | -130 | +110 | +140 |
| **TSL 80** | | * | 80 | 98 | 0.4 | 0.5 | -120 | -150 | +130 | +160 |
| **TSL 100** | * | | 100 | 120 | 0.55 | 0.62 | -120 | -130 | +120 | +150 |
| **TSL 100** | | * | 100 | 120 | 0.55 | 0.62 | -110 | -110 | +120 | +120 |
| **TSL 150** | * | | 145 | 175 | 0.8 | 0.9 | -150 | -160 | +160 | +140 |
| **TSL 150** | | * | 145 | 175 | 0.85 | 0.95 | -160 | -160 | +160 | +160 |
| **TSL 150-1** | * | | 145 | 175 | 1.3 | 1.5 | -150 | -180 | +190 | +190 |
| **TSL 150-1** | | * | 145 | 175 | 1.3 | 1.5 | -170 | -210 | +200 | +220 |
| **TSL 210** | * | | 210 | 255 | 1.5 | 1.75 | -190 | -180 | +200 | +180 |
| **TSL 210** | | * | 210 | 255 | 1.6 | 2.05 | -200 | -220 | +190 | +210 |
| **TSL 210-0** | * | | 210 | 255 | 1.1 | 1.3 | -160 | -150 | +160 | +160 |
| **TSL 210-0** | | * | 210 | 255 | 1.3 | 1.5 | -170 | -150 | +170 | +140 |
| **TSL 210-1** | * | | 210 | 255 | 2.2 | 2.55 | -220 | -210 | +210 | +200 |
| **TSL 210-1** | | * | 210 | 255 | 2.2 | 2.55 | -220 | -260 | +270 | +290 |
| **TSL 270** | | * | 270 | 330 | 1.6 | 2.05 | -160 | -160 | +150 | +150 |
| **TSL 270-0** | | * | 270 | 330 | 1.3 | 1.5 | -120 | -90 | +110 | +80 |
| **TSL 270-1** | * | | 270 | 330 | 1.5 | 1.75 | -150 | -120 | +140 | +110 |
| **TSL 270-1** | | * | 270 | 330 | 2.2 | 2.55 | -220 | -260 | +230 | +250 |
| **TSL 310** | * | | 318 | 376 | 2.2 | 2.55 | -190 | -190 | +190 | +200 |
| **TSL 310** | | * | 318 | 376 | 2.2 | 2.55 | -190 | -190 | +190 | +190 |
| **TSL 310F** | | * | 318 | 376 | 2.2 | 2.55 | -190 | -190 | +190 | +190 |
| **TSL 310-1** | | * | 318 | 376 | 3 | 3.45 | -260 | -240 | +270 | +230 |
| **TSL 310-1F** | | * | 318 | 376 | 3 | 3.45 | -260 | -240 | +270 | +230 |
| **TSL 310-2** | | * | 318 | 376 | 4 | 4.6 | -290 | -320 | +360 | +310 |
| **TSL 310-2F** | | * | 318 | 376 | 4 | 4.6 | -290 | -320 | +360 | +310 |
| **TSL 410-0** | | * | 420 | 500 | 1.6 | 2.05 | -100 | -110 | +100 | +100 |
| **TSL 410-1** | | * | 420 | 500 | 2.2 | 2.55 | -180 | -160 | +170 | +150 |
| **TSL 410-2** | | * | 420 | 500 | 3 | 3.45 | -220 | -200 | +200 | +170 |
| **TSL 410-2F** | | * | 420 | 500 | 3 | 3.45 | -220 | -200 | +200 | +170 |
| **TSL 410-3** | | * | 420 | 500 | 4 | 4.6 | -260 | -260 | +280 | +260 |
| **TSL 410-3F** | | * | 420 | 500 | 4 | 4.6 | -260 | -260 | +310 | +280 |
| **TSL 550** | | * | 530 | 620 | 5.5 | 6.3 | -300 | -300 | +300 | +280 |
| **TSL 550-0** | | * | 530 | 620 | 4.3 | 4.6 | -200 | -160 | +200 | +160 |
| **TSL 550-1** | | * | 530 | 620 | 7.5 | 8.6 | -320 | -350 | +430 | +400 |
| **TSL 700** | | * | 700 | 840 | 5.5 | 6.3 | -200 | -180 | +190 | +180 |
| **TSL 700-0** | | * | 700 | 840 | 4.3 | 4.6 | -150 | -90 | +140 | +90 |
| **TSL 700-1** | | * | 700 | 840 | 7.5 | 8.6 | -270 | -270 | +260 | +260 |
| **TSL 1100** | | * | 1050 | 1250 | 12.5 | 14.5 | -290 | -270 | +280 | +260 |
| **TSL 1100-0** | | * | 1050 | 1250 | 8.5 | 9.8 | -190 | -150 | +190 | +140 |
| **TSL 1100-1** | | * | 1050 | 1250 | 15 | 17.5 | -320 | -340 | +380 | +360 |
| **TSL 1100-2** | | * | 1050 | 1250 | 18 | 21.3 | -360 | -380 | +460 | +420 |
| **TSL 1350** | | * | 1370 | 1650 | 12.5 | 14.5 | -190 | -150 | +180 | +150 |
| **TSL 1350-0** | | * | 1370 | 1650 | 8.5 | 9.8 | -120 | -80 | +110 | +70 |
| **TSL 1350-1** | | * | 1370 | 1650 | 15 | 17.5 | -250 | -225 | +250 | +215 |
| **TSL 1350-2** | | * | 1370 | 1650 | 18.5 | 21.3 | -310 | -300 | +320 | +280 |
| **TSL 2200** | | * | 2200 | 2650 | 18.5 | 21.3 | -200 | -160 | +180 | +140 |
| **TSL 2200-1** | | * | 2200 | 2650 | 22 | 24.5 | -230 | -180 | +180 | +170 |

F = Front Suction Inlet

# **DOUBLE STAGE** BLOWERS

| | | | FLOW RATE | | MOTOR POWER | | VACUUM | | PRESSURE | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | $m^3/h$ | | kW | | mbar | | mbar | |
| | (1~) | (3~) | 50 Hz | 60 Hz | 50 Hz | 60 Hz | 50 Hz | 60 Hz | 50 Hz | 60 Hz |
| **TDL 80** | * | | 85 | 102 | 0.7 | 0.83 | -210 | -250 | +240 | +250 |
| **TDL 80** | | * | 85 | 102 | 0.7 | 0.83 | -210 | -250 | +240 | +250 |
| **TDL 120** | * | | 120 | 145 | 1.1 | 1.3 | -240 | -230 | +280 | +260 |
| **TDL 120** | | * | 110 | 130 | 1.3 | 1.5 | -280 | -300 | +290 | +400 |
| **TDL 150** | * | | 150 | 180 | 1.5 | 1.75 | -280 | -250 | +290 | +280 |
| **TDL 150** | | * | 150 | 180 | 1.6 | 2.05 | -280 | -320 | +280 | +310 |
| **TDL 150-1** | | * | 150 | 180 | 2.2 | 2.55 | -330 | -350 | +420 | +440 |
| **TDL 210** | | * | 230 | 275 | 3 | 3.45 | -340 | -380 | +410 | +360 |
| **TDL 210-1** | | * | 230 | 275 | 4 | 4.6 | -390 | -410 | +440 | +480 |
| **TDL 310** | | * | 320 | 380 | 4.3 | 4.8 | -360 | -350 | +380 | +320 |
| **TDL 310-1** | | * | 320 | 385 | 5.5 | 6.3 | -440 | -440 | +500 | +500 |
| **TDL 310-2** | | * | 320 | 380 | 7.5 | 8.6 | -440 | -460 | +570 | +660 |
| **TDL 550** | | * | 520 | 620 | 7.5 | 8.6 | -400 | -360 | +400 | +330 |
| **TDL 550-1** | | * | 520 | 620 | 11 | 12.6 | -430 | -460 | +660 | +600 |
| **TDL 550-2** | | * | 520 | 620 | 15.5 | 17.3 | -460 | -490 | +520 | +620 |

# **DOUBLE PARALLEL STAGE** BLOWERS

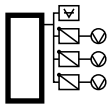
| | | FLOW RATE | | MOTOR POWER | | VACUUM | | PRESSURE | |
|---|---|---|---|---|---|---|---|---|---|
| | | $m^3/h$ | | kW | | mbar | | mbar | |
| | (3~) | 50 Hz | 60 Hz | 50 Hz | 60 Hz | 50 Hz | 60 Hz | 50 Hz | 60 Hz |
| **TPL 550** | * | 500 | 600 | 4.3 | 4.8 | -150 | -100 | +140 | +90 |
| **TPL 550-1** | * | 500 | 600 | 5.5 | 6.3 | -240 | -210 | +260 | +200 |
| **TPL 550-2** | * | 500 | 600 | 7.5 | 8.6 | -240 | -270 | +320 | +300 |
| **TPL 900** | * | 900 | 1050 | 7.5 | 8.6 | -200 | -150 | +180 | +120 |
| **TPL 900-1** | * | 900 | 1050 | 11 | 12.6 | -280 | -310 | +370 | +350 |
| **TPL 1100** | * | 1110 | 1310 | 16.5 | 19 | -410 | -340 | +370 | +300 |
| **TPL 1100-1** | * | 1110 | 1310 | 20 | 23 | -440 | -440 | +500 | +430 |
| **TPL 1100-2** | * | 1110 | 1310 | 25 | 29 | -440 | -440 | +590 | +540 |
| **TPL 2000** | * | 1940 | 2310 | 15 | 17.5 | -130 | -60 | +110 | +40 |
| **TPL 2000-1** | * | 1940 | 2310 | 20 | 23 | -220 | -160 | +200 | +130 |
| **TPL 2000-2** | * | 1940 | 2310 | 25 | 29 | -310 | -270 | +280 | +220 |
| **TPLV 2100** | * | 2050 | 2480 | 20 | 23 | -250 | -190 | +230 | +180 |
| **TPLV 2100-2** | * | 2050 | 2480 | 25 | 29 | -310 | -270 | +280 | +230 |

# **TRIPLE STAGE** BLOWERS

| | | FLOW RATE | | MOTOR POWER | | VACUUM | | PRESSURE | |
|---|---|---|---|---|---|---|---|---|---|
| | | $m^3/h$ | | kW | | mbar | | mbar | |
| | (3~) | 50 Hz | 60 Hz | 50 Hz | 60 Hz | 50 Hz | 60 Hz | 50 Hz | 60 Hz |
| **TTL 550** | * | 530 | 620 | 11 | 12.6 | -550 | -580 | +580 | +670 |
| **TTL 550-1** | * | 530 | 620 | 15 | 17.3 | -600 | -650 | +590 | +650 |

# **CPV** VACUUM SYSTEMS

| | FREQUENCY | PUMP TYPE | TANK CAPACITY | NOMINAL CAPACITY | TOTAL FINAL PRESSURE (ABS.) | MOTOR POWER | WEIGHT |
|---|---|---|---|---|---|---|---|
| | | | $dm^3$ | $m^3/h$ | mbar – hPa | kW | Kg |
| **CPV 4/8** | 50 Hz | LC 4 | 8 | 4 | 2 | 0.12 | 11 |
| | 60 Hz | | | 4.4 | | 0.15 | |
| **CPV 12/25** | 50 Hz | LC 12 | 25 | 12 | 5 | 0.45 | 37 |
| | 60 Hz | | | 14 | | 0.54 | |
| **CPV 25/25** | 50 Hz | LC 25WR | 25 | 25 | 5 | 0.75 | 55 |
| | 60 Hz | | | 29 | | 0.90 | |
| **CPV 40/25** | 50 Hz | LC 40WR | 25 | 40 | 5 | 1.10 | 71 |
| | 60 Hz | | | 48 | | 1.35 | |
| **CPV 60/25** | 50 Hz | LC 60WR | 25 | 60 | 5 | 1.50 | 72 |
| | 60 Hz | | | – | | – | |



## **CPA SIMPLEX** INDUSTRIAL VACUUM SYSTEMS

| | FREQUENCY | PUMP TYPE | TANK CAPACITY | NOMINAL CAPACITY | TOTAL FINAL PRESSURE (ABS.) | MOTOR POWER | WEIGHT |
|---|---|---|---|---|---|---|---|
| | | | $dm^3$ | $m^3/h$ | mbar – hPa | (3~) kW | Kg |
| **CPA 1x25/100** | **50 Hz** | LC 25 | 100 | 25 | 10 | 0.75 | 88 |
| **CPA 1x40/100** | **50 Hz** | LC 40 | 100 | 40 | 10 | 1.1 | 109 |
| **CPA 1x60/100** | **50 Hz** | LC 60 | 100 | 60 | 10 | 1.5 | 112 |
| **CPA 1x106/100** | **50 Hz** | LC 106 | 100 | 106 | 10 | 2.2 | 137 |
| **CPA 1x25/300** | **50 Hz** | LC 25 | 300 | 25 | 10 | 0.75 | 133 |
| **CPA 1x40/300** | **50 Hz** | LC 40 | 300 | 40 | 10 | 1.1 | 154 |
| **CPA 1x60/300** | **50 Hz** | LC 60 | 300 | 60 | 10 | 1.5 | 157 |
| **CPA 1x106/300** | **50 Hz** | LC 106 | 300 | 106 | 10 | 2.2 | 182 |
| **CPA 1x151/300** | **50 Hz** | LC 151 | 300 | 151 | 10 | 3.3 | 192 |
| **CPA 1x40/500** | **50 Hz** | LC 40 | 500 | 40 | 10 | 1.1 | 214 |
| **CPA 1x60/500** | **50 Hz** | LC 60 | 500 | 60 | 10 | 1.5 | 217 |
| **CPA 1x106/500** | **50 Hz** | LC 106 | 500 | 212 | 10 | 2.2 | 242 |
| **CPA 1x205/500** | **50 Hz** | LC 205 | 500 | 205 | 10 | 5.5 | 400 |
| **CPA 1x305/500** | **50 Hz** | LC 305 | 500 | 305 | 10 | 7.5 | 410 |

## **CPA DUPLEX** INDUSTRIAL VACUUM SYSTEMS

| | FREQUENCY | PUMP TYPE | TANK CAPACITY | NOMINAL CAPACITY | TOTAL FINAL PRESSURE (ABS.) | MOTOR POWER | WEIGHT |
|---|---|---|---|---|---|---|---|
| | | | $dm^3$ | $m^3/h$ | mbar – hPa | (3~) kW | Kg |
| **CPA 2x25/300** | **50 Hz** | 2x LC 25 | 300 | 50 | 10 | 2x 0.75 | 165 |
| **CPA 2x40/300** | **50 hz** | 2x LC 40 | 300 | 80 | 10 | 2x 1.1 | 195 |
| **CPA 2x60/300** | **50 Hz** | 2x LC 60 | 300 | 120 | 10 | 2x 1.5 | 200 |
| **CPA 2x40/500** | **50 Hz** | 2x LC 40 | 500 | 80 | 10 | 2x 1.1 | 280 |
| **CPA 2x60/500** | **50 Hz** | 2x LC 60 | 500 | 120 | 10 | 2x 1.5 | 285 |
| **CPA 2x106/500** | **50 Hz** | 2x LC 106 | 500 | 212 | 10 | 2x 2.2 | 340 |
| **CPA 2x151/500** | **50 Hz** | 2x LC 151 | 500 | 302 | 10 | 2x 3.3 | 360 |
| **CPA 2x106/1000V** | **50 Hz** | 2x LC 106 | 1000 | 212 | 10 | 2x 2.2 | 400 |
| **CPA 2x205/1000V** | **50 Hz** | 2x LC 205 | 1000 | 410 | 10 | 2x 5.5 | 580 |
| **CPA 2x305/1000V** | **50 Hz** | 2x LC 305 | 1000 | 610 | 10 | 2x 7.5 | 600 |

## **CPA TRIPLEX** INDUSTRIAL AND MEDICAL VACUUM SYSTEMS

| | FREQUENCY | PUMP TYPE | TANK CAPACITY | NOMINAL CAPACITY | TOTAL FINAL PRESSURE (ABS.) | MOTOR POWER | WEIGHT |
|---|---|---|---|---|---|---|---|
| | | | $dm^3$ | $m^3/h$ | mbar – hPa | (3~) kW | Kg |
| **CPA 3x25/300V** | **50 Hz** | 3x LC 25 | 300 | 75 | 10 | 3x 0.75 | 240/260 * |
| **CPA 3x25/500V** | **50 hz** | 3x LC 25 | 500 | 75 | 10 | 3x 0.75 | 300/320 * |
| **CPA 3x40/500V** | **50 Hz** | 3x LC 40 | 500 | 120 | 10 | 3x 1.1 | 415/435 * |
| **CPA 3x60/500V** | **50 Hz** | 3x LC 60 | 500 | 180 | 10 | 3x 1.5 | 430/450 * |
| **CPA 3x106/500V** | **50 Hz** | 3x LC 106 | 500 | 318 | 10 | 3x 2.2 | 540/560 * |
| **CPA 3x106/1000V** | **50 Hz** | 3x LC 106 | 1000 | 318 | 10 | 3x 2.2 | 600/620 * |
| **CPA 3x151/1000V** | **50 Hz** | 3x LC 151 | 1000 | 453 | 10 | 3x 3.3 | 620/640 * |
| **CPA 3x205/1000V** | **50 Hz** | 3x LC 205 | 1000 | 615 | 10 | 3x 5.5 | 850/870 * |
| **CPA 3x305/1000V** | **50 Hz** | 3x LC 305 | 1000 | 915 | 10 | 3x 7.5 | 880/900 * |

* Medical vacuum systems

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