

COMPLETE PRODUCT RANGE

Vacuum Pumps and Systems, Compressors
and Pressure/Vacuum Pumps

MAKE IT BECKER.



Официальный представитель в России и СНГ компания ООО "СибВест"

www.becker-by.com

VT • KVT • VTLF
ROTARY VANE VACUUM PUMPS

- Oil-free
- Air-cooled
- Integrated suction filter and blow off valve
- VT/KVT with vacuum regulating valve
- VTLF with vacuum safety valve
- Version /0-400 with VARIAIR frequency inverter



VT 4.40



| | | m ³ /h – Refers to intake pressure ¹⁾ | | | | | | | | | | |
|-------------------------|-------|---|------|------|------|------|------|------|------|----------------|------|------|
| mbar absolute | | 1000 | 900 | 800 | 700 | 600 | 500 | 400 | 300 | 200 | 150 | 100 |
| mbar relative | | 0 | -100 | -200 | -300 | -400 | -500 | -600 | -700 | -800 | -850 | -900 |
| VT 4.2 | 50 Hz | 1.9 | 1.8 | 1.6 | 1.3 | 1.1 | 0.9 | 0.7 | | | | |
| | 60 Hz | 2.3 | 2.2 | 2.0 | 1.8 | 1.5 | 1.3 | 1.0 | | | | |
| VT 4.4 | 50 Hz | 4.1 | 4.0 | 3.8 | 3.6 | 3.4 | 3.2 | 3.0 | 2.3 | 1.5 | 0.7 | |
| | 60 Hz | 4.7 | 4.6 | 4.5 | 4.3 | 4.1 | 3.8 | 3.5 | 3.0 | 2.5 | 2.0 | |
| VT 4.8 | 50 Hz | 8.0 | 7.9 | 7.8 | 7.6 | 7.3 | 7.0 | 6.5 | 6.0 | 5.0 | 4.0 | |
| | 60 Hz | 9.1 | 8.9 | 8.9 | 8.7 | 8.5 | 8.2 | 7.4 | 6.8 | 5.2 | 4.0 | |
| VT 4.10 | 50 Hz | 10 | 9.8 | 9.6 | 9.2 | 8.8 | 8.2 | 7.4 | 6.0 | 2.9 | 0.1 | |
| | 60 Hz | 12 | 11.8 | 11.5 | 11.1 | 10.6 | 9.9 | 8.8 | 7.1 | 3.5 | 0.1 | |
| VT 4.16 | 50 Hz | 16 | 15.7 | 15.3 | 14.9 | 14.2 | 13.2 | 11.8 | 9.4 | 4.7 | 0.1 | |
| | 60 Hz | 19 | 18.6 | 18.2 | 17.6 | 16.8 | 15.6 | 14.0 | 11.2 | 5.6 | 0.1 | |
| VT 4.25 | 50 Hz | 25 | 24.5 | 23.9 | 23.1 | 22.1 | 20.6 | 18.4 | 14.7 | 7.4 | 0.1 | |
| | 60 Hz | 30 | 29.4 | 28.7 | 27.7 | 26.5 | 24.7 | 22.1 | 17.6 | 8.8 | 0.1 | |
| VT 4.40 | 50 Hz | 40 | 39.2 | 38.2 | 37.0 | 35.3 | 32.9 | 29.4 | 23.5 | 11.8 | 0.1 | |
| | 60 Hz | 48 | 47.1 | 45.9 | 44.4 | 42.4 | 39.5 | 35.3 | 28.2 | 14.1 | 0.1 | |
| KVT 3.60 | 50 Hz | 55 | 55 | 54 | 53 | 52 | 50 | 48 | 45 | 37 | 20 | 0.1 |
| | 60 Hz | 66 | 65 | 64 | 63 | 61 | 59 | 55 | 49 | 37 | 25 | 0.1 |
| KVT 3.80 | 50 Hz | 67 | 66 | 65 | 63 | 61 | 59 | 55 | 49 | 38 | 24 | 0.1 |
| | 60 Hz | 78.5 | 77 | 76 | 75 | 73 | 70 | 65 | 58 | 44 | 29 | 0.1 |
| KVT 3.100 | 50 Hz | 98 | 97 | 96 | 93 | 90 | 86 | 80 | 71 | 56 | 35 | 0.1 |
| | 60 Hz | 112 | 111 | 109 | 107 | 104 | 100 | 93 | 83 | 62 | 41 | 0.1 |
| KVT 3.140 | 50 Hz | 129 | 127 | 125 | 123 | 120 | 116 | 108 | 96 | 75 | 47 | 0.1 |
| | 60 Hz | 154 | 152 | 150 | 147 | 143 | 138 | 130 | 117 | 90 | | |
| VTLF 2.200 | 50 Hz | 178 | 174 | 170 | 165 | 158 | 152 | 140 | 115 | 85 | | |
| | 60 Hz | 218 | 214 | 210 | 204 | 197 | 189 | 178 | 160 | 125 | | |
| VTLF 2.250 | 50 Hz | 244 | 242 | 238 | 235 | 230 | 222 | 210 | 197 | 165 | | |
| | 60 Hz | 286 | 284 | 281 | 276 | 270 | 261 | 248 | 230 | 195 | | |
| VTLF 2.250 SK | 50 Hz | 247 | 242 | 236 | 229 | 220 | 213 | 204 | 188 | 159 | 140 | 89 |
| | 60 Hz | 295 | 292 | 289 | 284 | 276 | 269 | 257 | 240 | 208 | 191 | 142 |
| VTLF 2.360 | 50 Hz | 351 | 351 | 350 | 347 | 343 | 334 | 324 | 302 | 283 @ 250 mbar | | |
| | 60 Hz | 402 | 403 | 401 | 399 | 391 | 382 | 370 | 360 | 352 @ 250 mbar | | |
| VTLF 2.400 | 50 Hz | 390 | 380 | 371 | 361 | 351 | 325 | 307 | 273 | 243 | | |
| | 60 Hz | 460 | 456 | 451 | 444 | 435 | 423 | 404 | 373 | 310 | | |
| VTLF 2.500 | 50 Hz | 495 | 487 | 480 | 472 | 464 | 450 | 424 | 397 | 376 @ 250 mbar | | |
| | 60 Hz | 570 | 565 | 559 | 552 | 541 | 526 | 504 | 463 | 446 @ 250 mbar | | |
| KVT 3.100/0-400 | 60 Hz | 112 | 111 | 109 | 107 | 104 | 99 | 94 | 84 | 68 | 56 | 35 |
| KVT 3.140/0-400 | 60 Hz | 145 | 140 | 137 | 134 | 131 | 127 | 121 | 110 | 95 | 83 | 61 |
| VTLF 2.250/0-400 | 60 Hz | 280 | 279 | 278 | 272 | 266 | 256 | 243 | 222 | 178 | | |
| VTLF 2.360/0-400 | 60 Hz | 405 | 405 | 404 | 396 | 385 | 370 | 350 | 349 | 349 @ 250 mbar | | |
| VTLF 2.500/0-400 | 60 Hz | 560 | 552 | 546 | 537 | 527 | 512 | 489 | 454 | 425 @ 250 mbar | | |

¹⁾ Reference (atmosphere): 1000 mbar, 20°C / tolerance: ±5%

²⁾ Alternatively available as DC variant

³⁾ Power of the VARIAIR frequency inverter



KVT 3.140



VTLF 2.250

| Technical data | | | | | | | | | | | |
|-------------------------|-------------------------|--------------------|--------------------|--------------------|-------|-------|-------|----------------------|-------|--------|------------|
| | kW 3~ | | kW 1~ | | db(A) | | kg | mm | | | Connection |
| | 50 Hz | 60 Hz | 50 Hz | 60 Hz | 50 Hz | 60 Hz | | Length | Width | Height | |
| VT 4.2 | | | 0.09 | 0.105 | 56.0 | 58.0 | 7.0 | 222 | 155 | 166 | 1/4" |
| VT 4.4 | 0.18 ²⁾ | 0.21 ²⁾ | 0.18 ²⁾ | 0.21 ²⁾ | 59.0 | 61.0 | 7.0 | 222 | 155 | 166 | 1/4" |
| VT 4.8 | 0.37 ²⁾ | 0.44 ²⁾ | 0.35 ²⁾ | 0.42 ²⁾ | 58.0 | 61.0 | 11.5 | 231 (3~) 251 (1~) | 155 | 172 | 3/8" |
| VT 4.10 | 0.37 | 0.45 | 0.37 | 0.44 | 60.0 | 62.0 | 16.0 | 429 | 206 | 192 | 1/2" |
| VT 4.16 | 0.55 | 0.7 | 0.55 | 0.66 | 61.0 | 64.0 | 22.5 | 452 | 231 | 208 | 1/2" |
| VT 4.25 | 0.75 | 0.9 | 0.8 | 1.0 | 62.0 | 67.0 | 26.0 | 505 | 260 | 293 | 3/4" |
| VT 4.40 | 1.25 | 1.5 | 1.1 | 1.1 | 67.0 | 72.0 | 38.5 | 572 | 280 | 293 | 3/4" |
| KVT 3.60 | 2.2 | 2.6 | | | 71.0 | 73.0 | 84.0 | 747 | 353 | 328 | 1" |
| KVT 3.80 | 2.2 | 2.6 | | | 72.0 | 75.0 | 86.0 | 747 | 353 | 328 | 1" |
| KVT 3.100 | 3.0 | 3.6 | | | 75.0 | 77.0 | 108.0 | 851 | 470 | 336 | 1 1/2" |
| KVT 3.140 | 4.0 | 4.8 | | | 76.0 | 79.0 | 142.5 | 967 | 470 | 336 | 1 1/2" |
| VTLF 2.200 | 4.0 | 4.8 | | | 75.0 | 77.0 | 265.0 | 1174 | 644 | 528 | 2 1/2" |
| VTLF 2.250 | 5.5 | 6.6 | | | 77.0 | 79.0 | 258.0 | 1144 | 644 | 528 | 2 1/2" |
| VTLF 2.250 SK | 7.5 | 9.0 | | | 77.0 | 79.0 | 268.0 | 1180 | 644 | 558 | 2 1/2" |
| VTLF 2.360 | 11.0 | 13.2 | | | 80.5 | 82.5 | 263.0 | 1174 | 644 | 528 | 2 1/2" |
| VTLF 2.400 | 7.5 | 9.0 | | | 77.0 | 79.0 | 425.0 | 1477 | 747 | 579 | 4" |
| VTLF 2.500 | 11.0 | 13.2 | | | 79.0 | 80.0 | 411.0 | 1477 | 747 | 579 | 4" |
| KVT 3.100/0-400 | 4.0 ³⁾ | | | | | 77.0 | 109.5 | 829 | 470 | 400 | 1 1/2" |
| KVT 3.140/0-400 | 4.0 ³⁾ | | | | | 77.9 | 115.5 | 829 | 470 | 400 | 1 1/2" |
| VTLF 2.250/0-400 | 7.5 ³⁾ | | | | | 79.0 | 270.0 | 1250 | 644 | 580 | 2 1/2" |
| VTLF 2.360/0-400 | 11.0–22.0 ³⁾ | | | | | 79.0 | 290.0 | 1179 | 644 | 635 | 2 1/2" |
| VTLF 2.500/0-400 | 11.0–22.0 ³⁾ | | | | | 80.0 | 445.0 | 1459 | 747 | 712 | 4" |

SERIES X: BECKER INNOVATION WITH TOP WARRANTY

Equipped with specially developed vanes, these oil-free rotary vane pumps distinguish themselves by high abrasion resistance, and with that extremely long service lives. Due to the low wear there is also minimal dust, so the series X pumps are perfectly suited for precision processes under clean room conditions.

This innovation branded by Becker is outstanding not only because of its 100 percent oil-free operation, excellent degree of efficiency and low power consumption.

In the area of sensitive vacuum, series X also guarantees precise low-pulsation air conduction.

Becker guarantees for these pumps a vane life-time of 20,000 operating hours or a maximum of 3 years. The enhanced longevity of X series pumps also extends service life intervals, and can cut out the need for frequent service visits with costly pump failures now no longer an issue.

Available as

- VX 4.10 – VX 4.40 (100 mbar absolute)
- K VX 3.60 – K VX 3.140
- V XLF 2.200, 2.250, 2.400 & 2.500



ADVANTAGES

- Quick, clean and quiet
- Oil-free
- Wear resistant
- Energy saving
- Long-life reliability