

# ZEBRA RH 0003–0010 B

Two-stage oil-lubricated rotary vane vacuum pumps



Discover all advantages of the product series ZEBRA RH

## Reliable

Specially designed for a wide range of applications in the medium vacuum range, robust construction, proven rotary vane vacuum technology

## High performance

Stable pumping speed even in low pressure range

## Quiet

Perfectly suited for research labs and low-noise working environments, < 60 dB(A) at 50 Hz

### Accessories

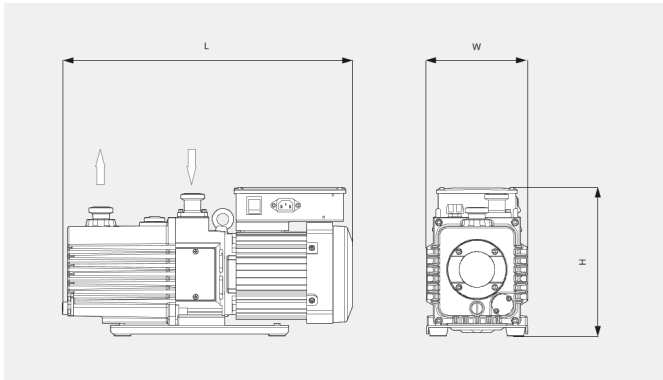
- Inlet filter
- Oil mist separator
- Gas-ballast valve

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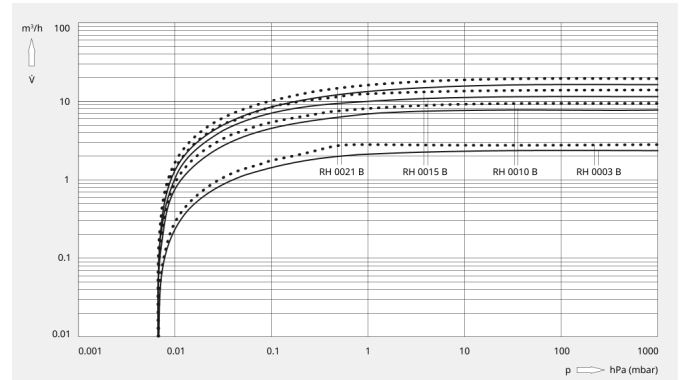


## Dimensional drawing



## Pumping speed

Air at 20 °C. Tolerance: ± 10%



The following technical values refer to ISO 50 Hz

|   | ZEBRA RH 0003 B                | ZEBRA RH 0010 B (A)            | ZEBRA RH 0010 B (B)            |
|---|--------------------------------|--------------------------------|--------------------------------|
| <b>Pumping speed (m³/h)</b>                                 | 2.4 m³/h                       | 8.1 m³/h                       | 8.1 m³/h                       |
| <b>Pumping speed (l/min)</b>                                | 40 l/min                       | 135 l/min                      | 135 l/min                      |
| <b>Ultimate partial pressure (gas#ballast valve closed)</b> | $6.7 \cdot 10^{-4}$ hPa (mbar) | $6.7 \cdot 10^{-4}$ hPa (mbar) | $6.7 \cdot 10^{-4}$ hPa (mbar) |
| <b>Ultimate total pressure (gas#ballast valve closed)</b>   | $6.7 \cdot 10^{-3}$ hPa (mbar) | $6.7 \cdot 10^{-3}$ hPa (mbar) | $6.7 \cdot 10^{-3}$ hPa (mbar) |
| <b>Ultimate total pressure (gas#ballast valve open)</b>     | $6.7 \cdot 10^{-2}$ hPa (mbar) | $6.7 \cdot 10^{-2}$ hPa (mbar) | $6.7 \cdot 10^{-2}$ hPa (mbar) |
| <b>Max. back pressure (gauge)</b>                           | 300 hPa (mbar)                 | 300 hPa (mbar)                 | 300 hPa (mbar)                 |
| <b>Water vapor capacity (gas#ballast valve open)</b>        | 5 g/h                          | 38 g/h                         | 38 g/h                         |
| <b>Motor phase</b>  | Single-phase                   | Single-phase                   | Three-phase                    |
| <b>Nominal motor rating</b>                                 | 0.2 kW                         | 0.4 kW                         | 0.4 kW                         |
| <b>Operating voltage</b>                                    | 100 – 120 / 200 – 240 V        | 100 – 120 / 200 – 240 V        | 200 – 240 / 380 – 415 V        |
| <b>Ambient temperature</b>                                  | 7 – 40 °C                      | 7 – 40 °C                      | 7 – 40 °C                      |
| <b>Oil</b>  | VSD 026                        | VMA 055                        | VMA 055                        |
| <b>Oil capacity</b>   | 0.8 l                          | 1 l                            | 1 l                            |
| <b>Noise level (ISO 2151)</b>                               | < 52 dB(A)                     | < 52 dB(A)                     | < 49 dB(A)                     |
| <b>Weight approx.</b>                                       | 16 kg                          | 29 kg                          | 26 kg                          |

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|                               | ZEBRA RH 0003 B    | ZEBRA RH 0010 B (A) | ZEBRA RH 0010 B (B) |
|-------------------------------|--------------------|---------------------|---------------------|
| <b>Dimensions (L x W x H)</b> | 427 x 150 x 228 mm | 488 x 170 x 250 mm  | 486 x 170 x 240 mm  |
| <b>Gas inlet</b>              | ISO-KF 25          | ISO-KF 25           | ISO-KF 25           |
| <b>Gas outlet</b>             | ISO-KF 25          | ISO-KF 25           | ISO-KF 25           |
| <b>Marking</b>                | cTUVus             | cTUVus              | cTUVus              |

The following technical values refer to ISO 60 Hz

|   | ZEBRA RH 0003 B                   | ZEBRA RH 0010 B (A)               | ZEBRA RH 0010 B (B)               |
|---|-----------------------------------|-----------------------------------|-----------------------------------|
| <b>Pumping speed (m<sup>3</sup>/h)</b>                      | 2.9 m <sup>3</sup> /h             | 9.7 m <sup>3</sup> /h             | 9.7 m <sup>3</sup> /h             |
| <b>Pumping speed (l/min)</b>                                | 48 l/min                          | 162 l/min                         | 162 l/min                         |
| <b>Ultimate partial pressure (gas#ballast valve closed)</b> | 6.7 · 10 <sup>-4</sup> hPa (mbar) | 6.7 · 10 <sup>-4</sup> hPa (mbar) | 6.7 · 10 <sup>-4</sup> hPa (mbar) |
| <b>Ultimate total pressure (gas#ballast valve closed)</b>   | 6.7 · 10 <sup>-3</sup> hPa (mbar) | 6.7 · 10 <sup>-3</sup> hPa (mbar) | 6.7 · 10 <sup>-3</sup> hPa (mbar) |
| <b>Ultimate total pressure (gas#ballast valve open)</b>     | 6.7 · 10 <sup>-2</sup> hPa (mbar) | 6.7 · 10 <sup>-2</sup> hPa (mbar) | 6.7 · 10 <sup>-2</sup> hPa (mbar) |
| <b>Max. back pressure (gauge)</b>                           | 300 hPa (mbar)                    | 300 hPa (mbar)                    | 300 hPa (mbar)                    |
| <b>Water vapor capacity (gas#ballast valve open)</b>        | 5 g/h                             | 38 g/h                            | 38 g/h                            |
| <b>Motor phase</b>  | Single-phase                      | Single-phase                      | Three-phase                       |
| <b>Nominal motor rating</b>                                 | 0.2 kW                            | 0.4 kW                            | 0.4 kW                            |
| <b>Operating voltage</b>                                    | 100 – 120 / 200 – 240 V           | 100 – 120 / 200 – 240 V           | 200 – 240 / 380 – 460 V           |
| <b>Ambient temperature</b>                                  | 7 – 40 °C                         | 7 – 40 °C                         | 7 – 40 °C                         |
| <b>Oil</b>  | VSD 026                           | VMA 055                           | VMA 055                           |
| <b>Oil capacity</b>   | 0.8 l                             | 1 l                               | 1 l                               |
| <b>Noise level (ISO 2151)</b>                               | < 53 dB(A)                        | < 54 dB(A)                        | < 52 dB(A)                        |
| <b>Weight approx.</b>                                       | 16 kg                             | 29 kg                             | 26 kg                             |
| <b>Dimensions (L x W x H)</b>                               | 427 x 150 x 228 mm                | 488 x 170 x 250 mm                | 486 x 170 x 240 mm                |
| <b>Gas inlet</b>  | ISO-KF 25                         | ISO-KF 25                         | ISO-KF 25                         |
| <b>Gas outlet</b>   | ISO-KF 25                         | ISO-KF 25                         | ISO-KF 25                         |
| <b>Marking</b>  | cTUVus                            | cTUVus                            | cTUVus                            |

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**DO YOU WANT TO KNOW MORE**

Please contact us!  
[sales@busch.co.nz](mailto:sales@busch.co.nz) or +64 (0)800 428 724



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