

# Tyr

Rotary Lobe Blowers  
WT 0100 - 0730 BV/BP



When it comes to performance and compact design, Tyr rotary lobe blowers set new standards for vacuum and overpressure generation.

Thanks to their robust design and the high level of precision during manufacture, Tyr rotary lobe blowers are extremely reliable and operationally dependable. Constant differential pressure both in the vacuum and in the overpressure range are ensured at medium and high pumping speeds.

#### Application-orientated

Tyr rotary lobe blowers are available as vacuum as well as overpressure generators. The six different sizes can be individually adjusted to perfectly suit any application by selecting the drive and variable speed. Tyr rotary lobe blowers are extremely energy-efficient thanks to the use of motors of efficiency class IE2 and high level of efficiency of the blowers stages.

Depending on the version, the innovative acoustic insulation concept reduces noise emission by 4 to 5 dB(A) compared to similar blowers. The acoustic enclosure (accessory) enables the noise level to be reduced by a further 15 to 20 dB(A).

#### Easy to service

Thanks to the non-contact design, no operating fluid is required in the compression chamber. The operating pressure, filter and gear oil level can easily be monitored via displays on the housing/sound absorbing cabinet. Belt tensioning between the drive and the blower stage is performed automatically, eliminating the need for inconvenient checks and re-tensioning of the v-belts. Maintenance is limited to lubrication of the bearings, changing of filters and gear oil.



**Tyr – Powerful and quiet.  
The modern vacuum and  
overpressure generator.**



### Technical specifications

Tyr three-blade rotary blowers work according to the proven Roots system: two parallel rotary pistons mounted rotate in opposite directions within a housing. The pumped medium is sealed in the space between the rotors and housing. It is pumped to the gas discharge by the rotary motion and discharged. A silencer with integrated inlet filter is connected upstream of the blower stage.

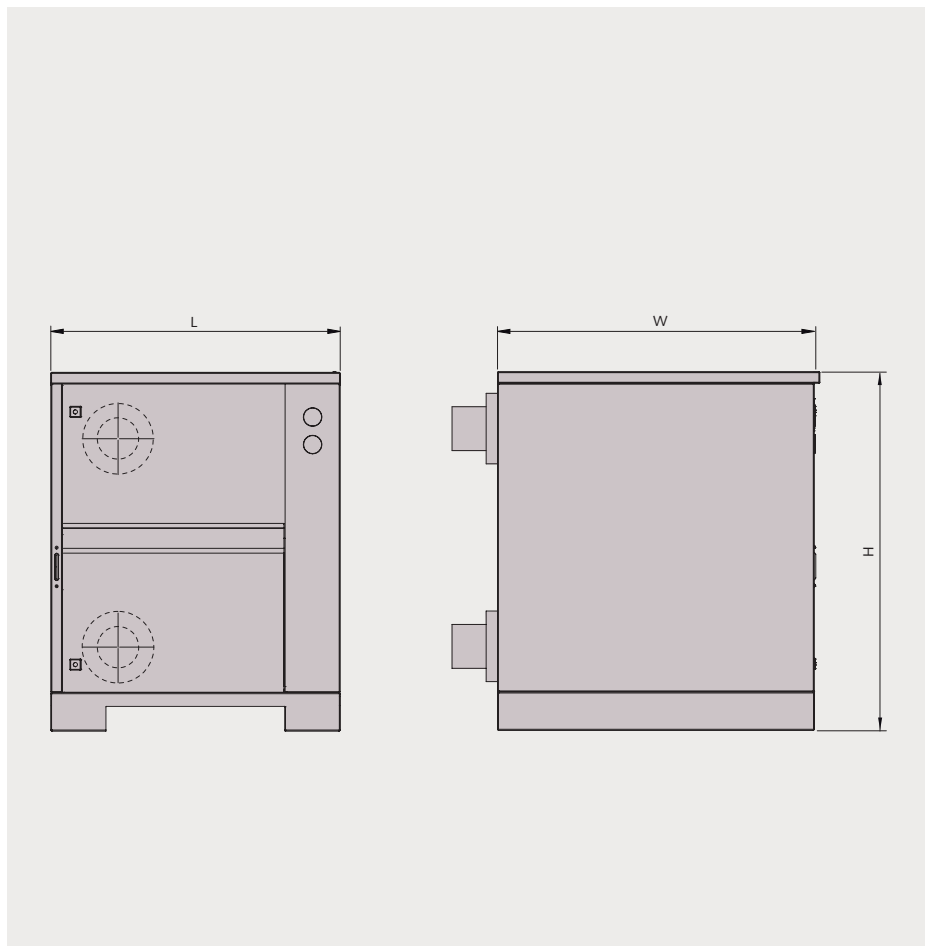
Once the medium has been compressed during the blower stage, it flows through the downstream discharge silencer.

The drive unit is operating with a motor using a v-belt. The v-belt drive enables the blower speed to be precisely adjusted to the process. The design of the Tyr rotary lobe blower is practically identical in the vacuum and overpressure version.

### Accessories/technical options

- Acoustic enclosure for noise level reduction
- Non-return valve to prevent backflow of the medium to the recipients (vacuum version) or blower stage (overpressure version)
- Heat sensor for continuous monitoring of the operating temperature
- Anticorrosion set to prevent corrosion during long downtimes
- Pulsation dampener for additional reduction of the exhaust noise

### Tyr WT 0100 - 0730 BV/BP



| Technical Data                               |                     | WT 0100 BV/BP | WT 0150 BV/BP | WT 0280 BV/BP  | WT 0390 BV/BP  | WT 0600 BV/BP  | WT 0730 BV/BP  |
|--|---------------------|---------------|---------------|----------------|----------------|----------------|----------------|
| Nominal pumping speed                        | m <sup>3</sup> /min | 2.5 - 10.0    | 3.7 - 15.0    | 5.1 - 28.0     | 7.1 - 39.0     | 12.0 - 64.0    | 15.4 - 73.0    |
| Max. differential pressure, vacuum version   | hPa (mbar)          | -500          | -500          | -500           | -500           | -500           | -500           |
| Max. differential pressure, pressure version | hPa (mbar)          | +1000         | +1000         | +1000          | +1000          | +1000          | +1000          |
| Nominal motor rating                         | kW                  | 0.75 - 22.0   | 1.1 - 37.0    | 1.5 - 55.0     | 2.2 - 75.0     | 4.0 - 90.0     | 5.5 - 110.0    |
| Speed of Roots blower                        | min <sup>-1</sup>   | 1150 - 4700   | 1150 - 4700   | 850 - 4700     | 850 - 4700     | 750 - 4050     | 750 - 3550     |
| Weight approx. (with acoustic enclosure)     | kg                  | 295           | 312           | 535            | 561            | 1014           | 1053           |
| Dimensions (L x W x H)                       | mm                  | 800x1000x1082 | 800x1000x1082 | 1050x1150x1302 | 1050x1150x1302 | 1450x1550x1732 | 1450x1550x1732 |
| Gas inlet/outlet                             | Ø mm                | 114           | 114           | 159            | 159            | 219            | 219            |

### Busch Vacuum Kft.

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