

Tyr

Rotary Lobe Blowers
WT 0100–0730 BV/BP



- › **Silent:**
due to an innovative acoustic insulation concept
- › **Compact:**
minimized footprint, small surface area
- › **Efficient:**
low energy consumption, reduced operating costs, minimal maintenance
- › **Reliable:**
robust construction, reliable operation
- › **Flexible:**
application-oriented

Tyr WT rotary lobe blowers were developed by Busch as modern high-performance vacuum and pressure generators. They have established new standards of noise levels, compactness and efficiency.

The robust construction and outstanding manufacturing quality of Tyr WT rotary lobe blowers ensure outstanding reliability and durability. Constant pressure differentials in both vacuum and pressure applications at medium and high pumping speeds are guaranteed.

Tyr WT rotary lobe blowers are available as vacuum or pressure generators, with conversion possible at any time. Six sizes are available, with a range of motors and speed control, allowing the optimal configuration to match every application.

Tyr WT rotary lobe blowers achieve high levels of energy efficiency due to their IE3 class motors and flow-optimized blower stages. The innovative acoustic insulation

concept with integrated inlet and discharge silencers reduces noise emissions by up to five dB(A) in comparison to blowers of similar output, depending on the particular version. The optional acoustic enclosure can reduce sound levels by an additional 10 to 20 dB(A).

Due to the contact-free operating principle, no fluids are required in the compression chamber. Operating pressure, filter condition and the gear oil level are displayed by instruments mounted on the unit housing or acoustic enclosure. The tension of the drive belt between the motor and blower stage is maintained automatically, thus eliminating almost entirely the inconvenient task of adjusting V-belts. Annual servicing is confined to the simple inspection of the V-belt tension and replacement of the filter and gear oil.

**Tyr – powerful and quiet.
The modern vacuum and
pressure generator.**



Tyr WT 0150 BP / BV

Tyr

Rotary Lobe Blowers WT 0100–0730 BV/BP



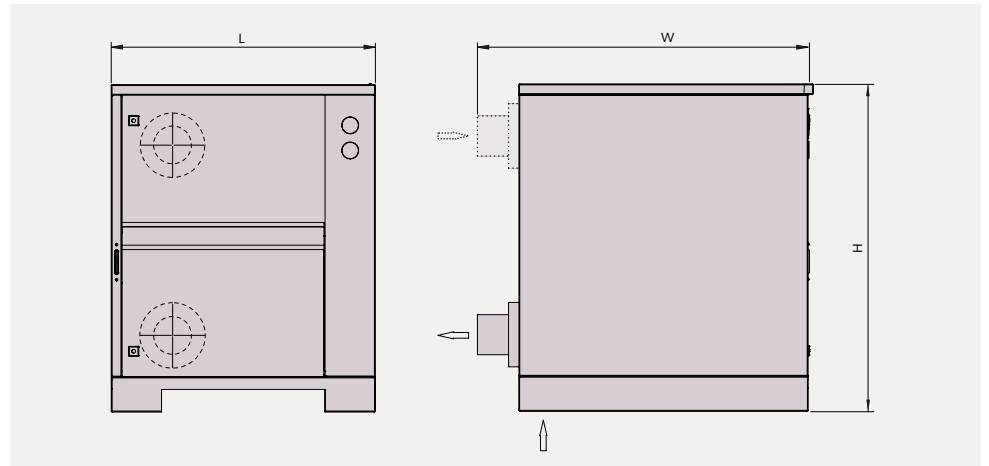
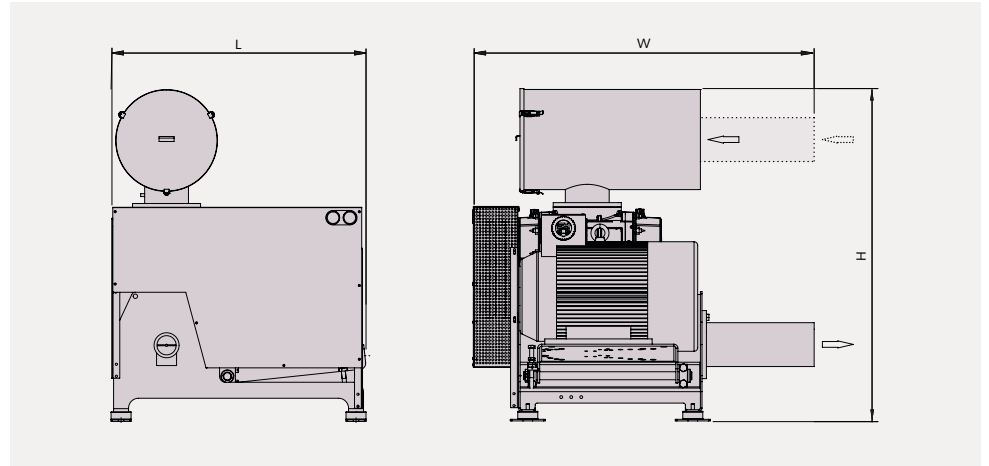
Technical specifications

Three-bladed Tyr WT rotary lobe blowers for vacuum and pressure operate according to the proven Roots principle: Two rotary lobes are mounted in parallel within the unit housing and operate in opposite directions. The rotation of the lobes traps the pumped medium and transports it to the outlet, where it is discharged. A silencer with an integrated filter is fitted to the inlet side. After compression, the pumped medium is discharged through an outlet silencer. The blower is driven by an electric motor with V-belt transmission, which allows the blower speed to be regulated precisely. The high quality of the V-belts makes this the ideal form of power transmission. Standard motors can be fitted with a speed control unit for optimal response to changing demand.

Accessories / Technical options

- C4 corrosion protection version
- Anti-corrosion coating for blower stage
- Acoustic enclosure
- Pulsation silencer without absorption material
- Flame arresters

Tyr WT 0100–0730 BV/BP



..... Vacuum version

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
Min./Max. flow	ACFM	88/353	131/530	180/989	251/1377	424/2119	544/2578
Max. vacuum (BV)	"HgV	14.75	14.75	14.75	14.75	14.75	14.75
Max. pressure (BP)	PSIG	14.5	14.5	14.5	14.5	14.5	14.5
Nominal motor rating	kW (HP)	0.75–22.0 (1.0–30.0)	1.1–37.0 (1.5–50.0)	1.5–55.0 (2.0–75.0)	2.2–75.0 (3.0–100.0)	4.0–90.0 (5.0–125.0)	5.5–110.0 (7.5–150.0)
Nominal motor speed	RPM	1150–4700	1150–4700	850–4700	850–4700	750–4050	750–3550
Weight approx. (without/with acoustic enclosure)	Lbs	397/650	434/688	763/1179	820/1237	1567/2235	1653/2321
Dimensions (without/with acoustic enclosure, L x W x H)	inches	28 1/8 x 43 7/8 x 40 1/8 31 1/8 x 46 3/8 x 42 5/8	27 1/16 x 43 3/4 x 40 1/2 31 1/8 x 46 3/8 x 42 5/8	37 3/16 x 48 x 49 1/4 41 5/16 x 50 3/4 x 51 1/4	37 3/16 x 48 x 49 1/4 41 5/16 x 50 3/4 x 51 1/4	50 3/16 x 67 x 65 3/8 57 1/16 x 70 1/8 x 68 3/16	50 3/16 x 67 x 65 3/8 57 1/16 x 70 1/8 x 68 3/16
Gas inlet/outlet	Ø mm (inches)	114/114 (4.48/4.48)	114/114 (4.48/4.48)	159/159 (6.26/6.26)	159/159 (6.26/6.26)	219/219 (8.62/8.62)	219/219 (8.62/8.62)

All performance data is based on ambient conditions of 14.7 PSIA and 70 °F, and has a tolerance of ± 10%.

Busch LLC

516 Viking Drive | Virginia Beach, VA 23452 | Phone 757-463-7800 | info@buschusa.com | www.buschusa.com

Argentina Australia België Brasil Canada Česko Chile 中国 Colombia Danmark Deutschland España France भारत गणराज्य Ireland ישראל Italia 日本 대한민국 Magyarország Malaysia México Nederland New Zealand Norge Österreich Perú Polska Portugal România Россия Schweiz Singapore South Africa Suomi Sverige 台湾 ประเทศไทย Türkiye الإمارات العربية المتحدة United Kingdom USA

Technical data is subject to change. Created in Germany. MG PL TYRWT01000730VB/BP USenus 11/2016 6.0