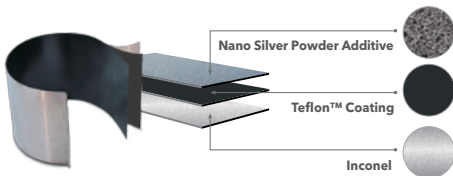


TurboLIGHT high efficiency, high-speed turbo blower

FOR LOW TO MEDIUM FLOWS



The Sanitaire TurboLIGHT turbo blower is the solution of choice when seeking a compact, efficient, low maintenance, oil-free, direct drive blower for lower airflow requirements at wastewater treatment facilities. The TurboLIGHT series is suitable for delivering oxygen for approximately 2,000-70,000 population equivalent, especially for customers looking to save money on energy and operating costs.

Designed with high quality, carefully selected components, the blower provides:

- Ultimate efficiency
- Minimal maintenance
- Optimized operator experience
- Ensured reliability

TurboLIGHT is based on centrifugal blower technology, which eliminates low-frequency pulsating flow, ensuring less noise transmission.

The high-speed permanent magnet synchronous motor (PMSM) provides high efficiency at varying loads with no slip and no mechanical losses.

The impeller is directly connected to the motor shaft resulting in 0% transmission losses. The airfoil bearing featuring Nano Silver Triple Treatment Bearing (NSTB) eliminates vibration and offers over 15 years in normal operating conditions before bearing overhaul is needed.



SANITAIRE
a xylem brand

TurboLIGHT Features

Motor

- High-speed PMSM with Class H motor insulation
- Voltage 380-400 VAC, 50-60 Hz, 3-phase
- Protective earth (3P + PE)

Impeller

- Solid forged aluminum Al7075-T6
- 5-axis, CNC-milled
- Anodized coating

Controls

- Danfoss Drives Vacon® Variable Frequency Drive
- Mi-Com controller with six operational modes
- Full color 7" touchscreen Human Machine Interface
- Communication options: Modbus RTU, Modbus TCP, 4-20 mA, along with Profibus DP or ProfiNET by request

Enclosure

- Powder coated steel with IP52 rating
- Optional powder coated stainless steel 304 outdoor enclosure with IP54 rating
- Does not require a concrete foundation for installation



Additional Features

- Easy access, built-in air filters
- Calculated flow meter (accuracy of +/-3%)
- Blow off valve
- Optional discharge silencer, check valve, expansion joint

Approvals

- CE compliant
- ISO 9000 and 14000 manufacturing standards

Performance

Factory tested in accordance with ASME PTC-10 and ISO 5389

Models		TLX10	TLX15	TLX20	TLX25	TLX30	TLX40	TLX50
Discharge Pressure [barG]	Air Flow [m³/h] @ 1atm, 20°C, 0% RH, Air Flow Tolerance : ±5%							
	HP	10	15	20	25	30	40	50
	kW	7.5	11.25	15	18.75	22.5	30	37
0.2		420	780	840	1260	1620	2100	2700
0.3		402	750	810	1140	1530	2040	2580
0.4		360	660	780	1050	1440	1920	2460
0.5		342	570	732	960	1290	1770	2280
0.6		300	480	660	810	1110	1620	2070
0.7							1320	1770
0.8							1170	1590

- Ambient temperature range -10°C – 40°C. Contact Xylem if other temperature ranges are needed.
- Atmospheric pressure range 90 kPa – 110 kPa
- Maximum relative humidity 95%, non-condensing, non-corrosive, no dripping water
- Maximum altitude 1,000 m above sea level

Enclosure data

Noise levels at 72-76 dBA, according to ISO 3744:2010

Models	Dimensions, mm			Weight, kg
	W	L	H	
TLX10-C060 & TLX15-C060	700	1150	1050	260
TLX20-C060, TLX25-C060 & TLX30-C060	700	1150	1050	290
TLX40-C060, TLX40-C080, TLX50-C060 & TLX50-C080	700	1150	1050	300

Measurements and data are for guidance only. For correct selections and sizing, please contact your nearest Xylem office or Xylem distributor.

Cooling air quality

Permitted vapors according to IEC 60721-3-3 class 3C2

Compound	Average, mg/m³	Maximum, mg/m³
Sulphur dioxide (SO ₂)	0.3	1.0
Hydrogen sulphide (H ₂ S)	0.1	0.5
Chlorine (Cl)	0.1	0.3
Hydrogen chlorine (HCl)	0.1	0.5
Hydrogen fluoride (HF)	0.01	0.03
Ammonia (NH ₃)	1.0	3.0
Ozone (O ₃)	0.05	0.1
Nitrogen oxides (NO _x)	0.5	1.0