

# **TURBOWIN**

## **TURBO BLOWER SERIES PRODUCT BROCHURE**

BEYOND IMAGINATION  
INNOVATION OF TURBO TECHNOLOGY  
FOR OIL-FREE GLOBAL BLOWER INDUSTRY

THE WORLD'S HIGHEST ENERGY EFFICIENCY

THE WORLD'S STRONGEST STABILITY WITH USER CONVENIENCE

THE WORLD'S BEST PATENTS AND CERTIFICATES

THE WORLD'S WIDEST PRODUCT LINE-UP

# COMPANY INTRODUCTION

## MAXIMIZED EFFICIENCY FROM PROVEN TECHNOLOGY









More than 80% of Turbowin’s employees are professional engineers who have been researching and developing only turbo technology for over 20 years with complete dedication to participating in the new product development and registration of new technology patents and certificates every year. This indomitable passion for technology advancement has led the company to launch the 8th generation. New turbo technology addresses the world’s growing demand for clean and affordable energy, which requires simultaneous advances in turbo science and technology to meet the performance demands of our global key end-users.

## MAJOR CERTIFICATES & PATENTS

- 2015** ISO 9001 / ISO 14001 / ISO 45001
  
- 2016** IATF 16949 / SPAN Certificate / High-Efficiency Energy Equipment Certificate  
 Korea - Valve Using Differential Pressure of Air (Patent No. 10-1651589)  
 Korea - Airfoil bearing device for high speed and high load that can maintain precision (Patent No. 10-1632356)  
 China - Single & Dual Cooling System (Patent No. ZL 2016 8 0000612.8)  
 China - Water and Moisture Proof (Patent No. ZL 2016 8 0027904.0)
  
- 2017** EAC Certificate / Cover for preventing ingress of foreign substances for turbomachinery (Patent No. 10-1791977)
  
- 2018** NRTL Certificate / Certification of Designation of Excellent Product – Public Procurement Service, Korea (No. 2018057)  
 Korea - Micro Turbo Compressor with Water-cooled Impeller (Patent No. 10-1969485)
  
- 2019** Korea - Surge Protection (Patent No. 10-1989588)  
 Korea - Airfoiled Radial Bearing with Optimal Cooling Induction (Patent No. 10-2067286)  
 Korea - Cooling Thermal Equilibrium (Patent No. 10-2050810)  
 Japan - Water and Moisture Proof (Patent No. 6524499)  
 Japan - Single & Dual Cooling System (Patent No. 6617903)
  
- 2020** USA - Water and Moisture Proof (Patent No. 10,648,476)  
 USA - Single & Dual Cooling System (Patent No. 10753372)  
 USA - Valve Using Differential Pressure of Air (Patent No. 10760581)  
 Germany - Water and Moisture Proof (Patent No. 11 2016 004 029)  
 Korea - Air-Cooled Multi-stage Turbo Compressor (Patent No. 10-2133245)  
 Korea - IoT Remote Controlled Turbo Machine (Patent No. 10-2200680)
  
- 2021** Anti-Explosive (EX / IECEx) Certificate of Conformity (No. KTL 21.0009X) / ABS Certificate / ASME Certificate  
 Excellent Production Designation Certificate / Innovative Water Company Designation Certificate  
 UL-US-2127364-0 & UL-CA-2122511-0 Certificate / World-Class Product Certificate (No. 2021-308)
  
- 2022** API Certificate



# TURBOWIN PRODUCT LINE-UP

2015	2016	2017	2018
 <p><b>WL &amp; WL-s Series</b> Turbo Blower &amp; Separated Type Turbo Blower</p>	 <p><b>WL-d &amp; WL-o Series</b> Dual &amp; Outdoor Type Turbo Blower</p>	 <p><b>WH &amp; WH-s &amp; WH-o Series</b> Turbo Compressor &amp; Separated &amp; Outdoor Type Turbo Compressor</p>	 <p><b>WH-m &amp; WH-d Series</b> Micro Turbo Compressor &amp; Dual Type Turbo Compressor</p>
2019	2020	2021	2022
 <p><b>WL-m Series</b> Micro Turbo Blower</p>	 <p><b>WL-i &amp; WH-i Series</b> Smart Turbo Blower &amp; Compressor</p> <p><b>WL-ex &amp; WH-ex Series</b> Anti-Explosive Turbo Blower &amp; Compressor</p>	 <p><b>WL-e Series</b> Eco Turbo Blower</p> <p><b>WH-g Series</b> Gas Turbo Compressor</p> <p><b>WH Series</b> 9.5Bar Turbo Compressor</p>	 <p><b>WL-v Series</b> Vacuum Turbo Blower</p> <p><b>WL-t Series</b> Triple Type Turbo Blower</p>

PRODUCT NAME	SERIES NAME	HP RANGE	BAR RANGE	LAUNCHED	DESCRIPTION
MICRO TURBO BLOWER	WL-m	3-10 HP	0.4-0.8 Bar(g)	2019	World's most advanced air-bearing baser turbo blower (7th generation)
TURBO BLOWER	WL	20-1200 HP	0.4-1.2 Bar(g)	2015	World-first smart IoT air-bearing based turbo blower
SMART TURBO BLOWER	WL-i	3-1200 HP	0.4-1.2 Bar(g)	2020	World-first anti-explosive(Ex) and widest range air-bearing based turbo blower
ANTI-EXPLOSIVE TURBO BLOWER	WL-ex	30-400 HP	0.4-1.2 Bar(g)	2020	Outdoor type turbo blower which doesn't need independent blower room
OUTDOOR TYPE TURBO BLOWER	WL-o	3-1200 HP	0.4-1.2 Bar(g)	2016	Dual type turbo blower with dual cores and four impellers
DUAL TYPE TURBO BLOWER	WL-d	100-1200 HP	0.4-1.2 Bar(g)	2016	Triple type turbo blower with triple cores and six impellers
SEPARATED TYPE TURBO BLOWER	WL-s	3-1200 HP	0.4-1.2 Bar(g)	2015	The control room and motor room can be separately installed and operated
ECO TURBO BLOWER	WL-e	30-300 HP	0.4-1.2 Bar(g)	2021	World's first vacuum turbo blower
VACUUM TURBO BLOWER	WL-v	50-300 HP	420 Torr	2022	Eco-friendly Turbo blower for developing countries
TRIPLE TYPE TURBO BLOWER	WL-t	1500 HP	0.6-1.2 Bar(g)	2022	World's smallest and lightest air-bearing based turbo blower

# WORLD'S HIGHEST EFFICIENCY

## PROVEN TO BE THE BEST TURBOMACHINERY

As oil prices have risen sharply recently and government's environmental regulations have been tightened due to global warming, most of the manufacturers in the world feel struggling. Turbowin has led the development of optimal applications for diverse industries, including petrochemicals, biochemicals, food and beverage, shipbuilding, automobiles, electronics, semiconductors, display, mining, metals and cement.

Accordingly, in 2019, when the turbowin's WL Series was introduced, reputable external global evaluation institute found that the Turbowin's turbo blower had an energy saving effect of 57.5%. Since then, Taiwan's AUO has been satisfied with Turbowin by the highest energy savings, user convenience and product durability, as well as reduced maintenance costs.



ZERO-OIL

57.5%

## SAVE YOUR PRECIOUS ENERGY COSTS

### ACTUAL ENERGY SAVING CASE

PROJECT	MOTOR (HP)	QUANTITY (SET)	HOUR POWER CONSUMPTION (KWH)	ANNUAL POWER CONSUMPTION (KWH)	ENERGY SAVING PERCENTAGE
BRAND A	150	1	105.6	925,056	29.5%
TURBOWIN WL Series	125	1	44.9	393,324	57.5%

- Low Vibration Under 1.0 mm/s
- Low Noise Under 75dB ± 5dB



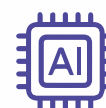
**END USER** AUO  
**LOCATION** Hsinchu Science Park, Hsinchu City, Taiwan  
**MODEL** WL125-08  
**APPLICATION** Wastewater Treatment



LOW VIBRATION UNDER  
1.0mm/s



LOW NOISE UNDER  
75dB ± 5dB

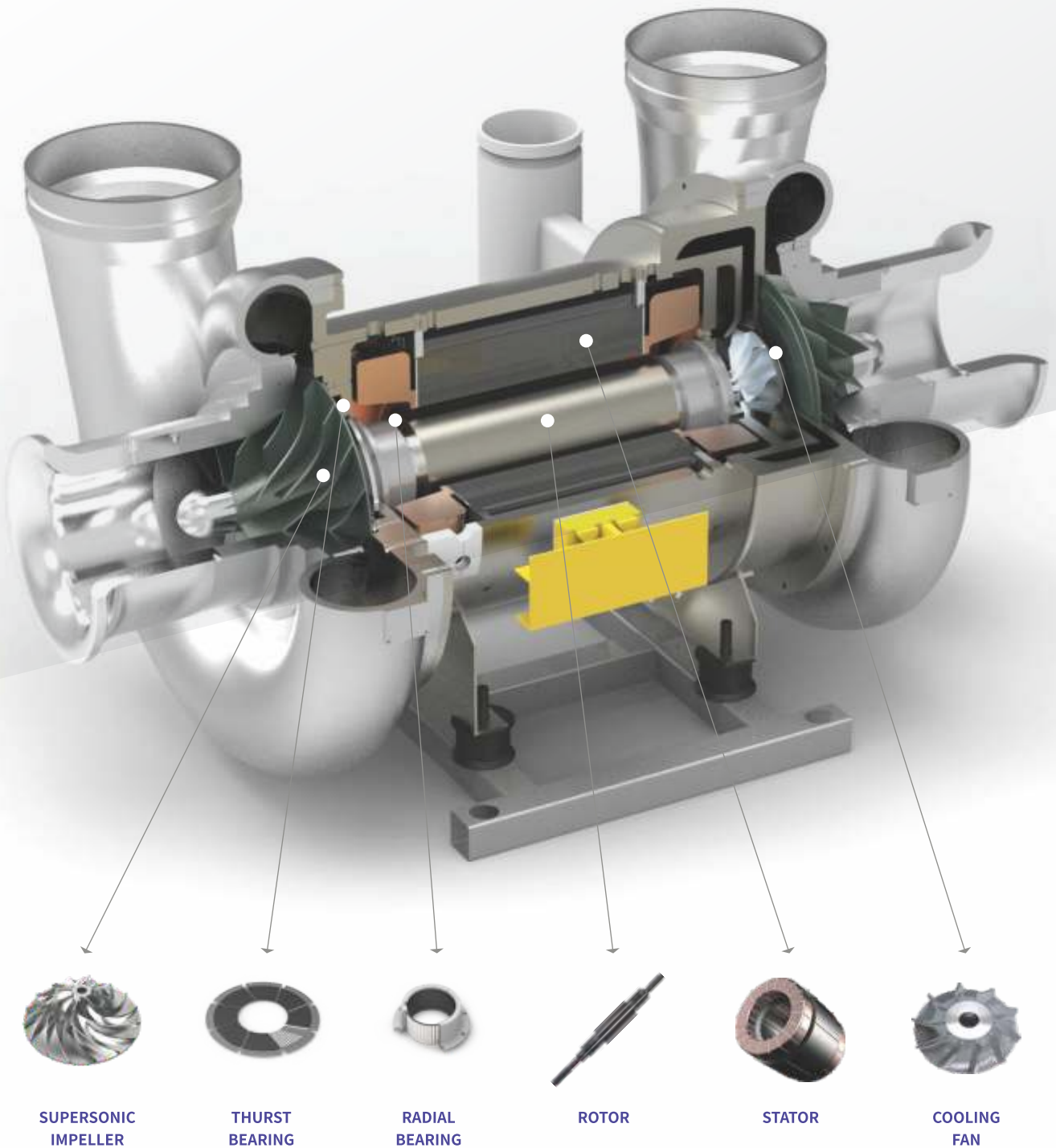


INDUSTRY 4.0  
AI

## CORE OF EXCELLENCE

### ULTRA HIGH-EFFICIENCY PERMANENT MAGNET MOTOR

For extreme temperature conditions, water/moisture/salt-proof, and anti-explosive based Turbowin's Ultra High-Efficiency Permanent Magnet Motor plays a key role in the world's most powerful turbo technology in the range from 20,000RPM to 280,000RPM



# CORE OF EXCELLENCE

---

## SUPERSONIC IMPELLER



ALUMINUM



STAINLESS

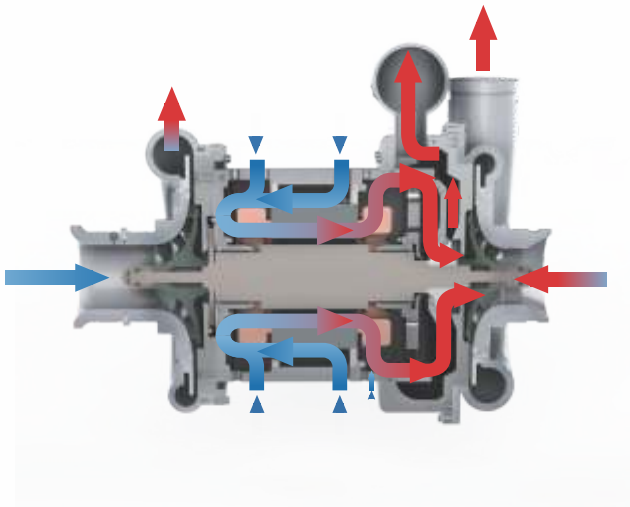


TITANIUM

Turbowin's Supersonic Impeller is an in-house designed and self-manufactured special product based on global patents and certificates. Therefore, depending on the end user's various or specific requirements, the main material of a supersonic impeller might be applied for aluminum alloy (AL7075-T651), stainless steel, or titanium. Turbowin does not allow even 0.001mm of error in machining and processing protocol at all. Moreover, a supersonic impeller could be specially coated with hard anodizing on the surface to provide excellent corrosion and chemical resistance.



TURBOWIN'S FACILITIES TO MAKE IN-HOUSE DESIGNED SUPERSONIC IMPELLER



### DUAL AIR-COOLING SYSTEM

Patent No. 10-1580877 / 10-1607492

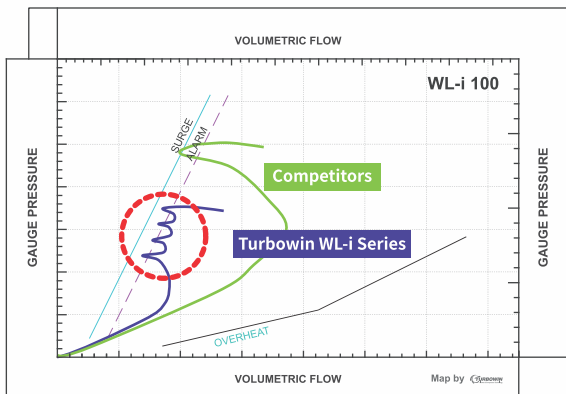
Turbowin can lower motor temperature by at least 10 degrees compared to other brands through its dual cooling system. This patented technology is composed of motor and inverter with no separate cooling device such as an external cooling fan or sinus filter.



### NBW AIR FOIL BEARING

Patent No. 10-1632356 / 30-0858674

Turbowin's air foil bearing is never bended nor welded. This is based on Turbowin's innovative technology to ensure our bearing to be extremely durable and reliable. Our bearing has passed on/off testing of over 150,000 cycles. NBW air foil bearing does not require any welding process with no holding bars. This patented technology makes the bearing durable, and it is not easily deformed even at high temperatures.



### SURGE PROTECTION SYSTEM

Patent No. 10-1989588

Having an emergency stop due to surge ultimately damages the motor. To prevent this from happening, sub solenoid valve has been additionally installed in WL-i Series for effective control and protection of the equipment from surge area. Sub solenoid valve is activated three to four times when the operating point falls under surge area; this protects the equipment from going to sudden surge and avoid immediate stop.

Surge, a frequent error of the old-fashioned blower, has been pointed out as the biggest disadvantage that makes blower application frightening and difficult. Turbowin's patented surge protection system protects the product from emergency changes in the external environment, especially Turbowin's Sub-Solenoid Valve, which operates quickly in the surge area without stopping or damage seen in the old-fashioned blowers.

# SIMPLIFIED STRUCTURE

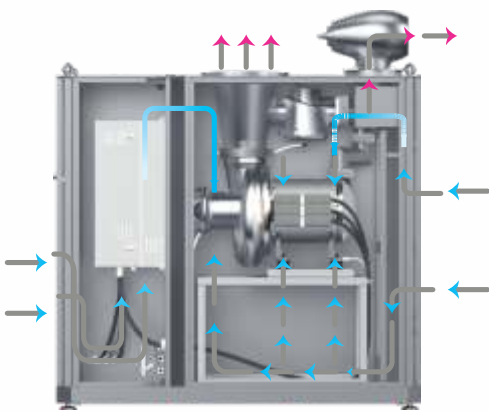
## INNOVATIVE STRUCTURE WITH PATENTS AND CERTIFICATES

Steve Jobs once said, “Simple can be harder than complex.” He also mentioned the significance of “Connecting Dots looking backward.” Turbowin’s R&D Group has continuously focused on simplifying and optimizing the turbo products based on the world-class turbo technology certified by global patents and certificates accumulated over the decades in a technical interactive manner.



### SMART HMI (Human Machine Interface)

By utilizing the Web and the APP in both IoT and AI(Artificial Intelligence) systems, Turbowin’s smart turbo system, which is easy to connect with its own server, has advanced user convenience, energy efficiency, and stability to the world-class level.



### VFD COOLING SYSTEM

Turbowin's globally patented dual cooling system, which does not require any additional motor cooling devices even for VFD at all, enables the world's best performance and durability. The cooling air that passes through the inverter merges with the cooling air that passes through the motor and is discharged to the outside, so it boasts stable operation even in extreme usage environments.



### AMBIENT LIGHTING

Visibility of System Status is a very important element in product design. Turbowin’s Smart display system, which won the Good Design Award, made it easy to clearly check the operation of the turbo blower product from afar through ambient lighting.

READY ▶ BLUE | RUN ▶ GREEN | WARNING ▶ ORANGE | STOP ▶ RED







**COOLING JET SILENCER**  
Patent No. 10-2200680

Turbowin's cooling discharge silencer has a compact size which is hardly affected by the installation site. With the help of Cooling Jet Silencer, noise can be reduced by 3~5dB compared to the other brands.



**BLOW OFF VALVE**  
Patent No. 10-1651589

Turbowin's patented BOV has a unique design that is operated by internally generated differential pressure without supply of external compressed air.



**EXPLOSION PROTECTION**  
Certificate of Conformity  
No. IECEx KTL 21.0009X

Turbowin is proud to announce the latest addition of IECEX certification, marking its turbo machinery as safe to use under explosive environments.

**WATER & MOISTURE RESISTANT ENCLOSURE**  
Patent No. 10-1616274

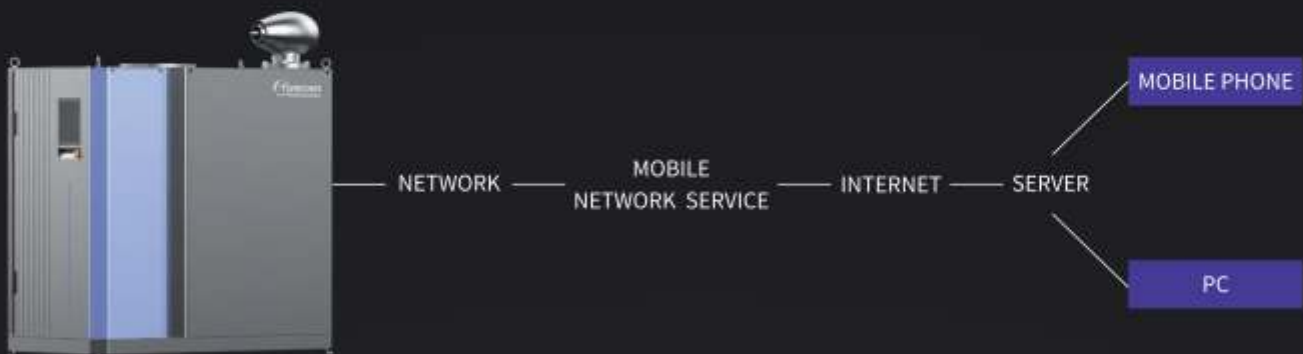
Patented water resistant enclosure for outdoor applications, a simple overhead canopy and covers on inlet louvers.

# WL-i SERIES

## SMART TURBO BLOWER



In the era of industry 4.0, Turbwin constantly pondered how to optimize energy efficiency and stability while maximizing user convenience in a safer work environment. As a result, the world's first IoT remote control system is provided to connect users and turbo blower through wireless communication, not only in smartphones and tablets but also in the business field where security forces them to use closed communication systems. Users who require very sophisticated levels of compressed air, such as semiconductors, displays, secondary batteries, bio-chemicals, F&B can implement user artificial intelligence systems and unmanned automated operation 24 hours a day. Turbwin's Smart Turbo Blower is receiving an ovation from global leading companies, causing a phenomenon of scrambling to apply Smart Turbo Blower. Especially, when applied with explosion-proof functionality, it exerts even more terrifying power to meet the demanding requirements of global leading companies with world-class global certification (CE, UL, IATF, EAC, ASME, API, ABS, etc.) along with these patented technologies.



# WL-m SERIES

## MICRO TURBO BLOWER

Turbowin's micro turbo blower WL-m Series is ideal if you need a reliable and energy-efficient supply of compressed air in a low flow rate range. The WL-m is a compact turbo blower while maintaining high efficiency. Offered in 3 to 10 HP, WL-m Series is explicitly developed for aeration applications, including aerobic, biological wastewater treatment, fermentation, and flotation.

**COST REDUCTION**  
Low installation expenses & high energy-saving feature

**COMPACT & PORTABLE**  
The product can be easily moved by forklift truck

**CLEAN TECHNOLOGY**  
Highly efficient, zero-oil air foil bearing technology

**PRAISEWORTHY ROI**  
Gain competitive ROI(Return on Investment) by reducing energy efficiency&maintenance costs

**MAXIMIZED EFFICIENCY**  
Energy saving up to 57.5% compared to roots blowers

**IoT & Ex**  
Adding smart and explosion-proof functions with WL-m Series provides strong performance even in a dangerous and narrow work environment

SPEC.	METRIC	WL-m3	WL-m5	WL-m7	WL-m10	IMPERIAL	WL-m3	WL-m5	WL-m7	WL-m10
	DISCHARGE PRESSURE (mmAq)	SINGLE TYPE Air Flow (m³/min) : 1atm, 20°C, 65%RH, Density =1.2kg/m³, Tolerance=±5%				DISCHARGE PRESSURE (psi)	SINGLE TYPE Air Flow (cfm) : 14.696psi, 20°C, 65%RH, Tolerance=±5%			
AIR FLOW RATE (m³/min)	4,000	-	-	-	-	5.8	-	-	-	-
	6,000	2.5	3.5	5	7	8.7	88	124	177	247
	8,000	-	-	3.5	5	11.6	-	-	124	177
	10,000	-	-	-	-	14.5	-	-	-	-
	12,000	-	-	-	-	17.4	-	-	-	-
SHAFT POWER(HP)		3	5	7.5	10		3	5	7.5	10
EXHAUST PIPE (mm/in)	4,000	-	-	-	-	5.8	-	-	-	-
	6,000	40A	50A	60A	80A	8.7	11/2	2	21/2	3
	8,000	-	-	50A	60A	11.6	-	-	2	21/2
	10,000	-	-	-	-	14.5	-	-	-	-
	12,000	-	-	-	-	17.4	-	-	-	-
DIMENSION (mm/ft)	W	520	520	520	520	W	1.71	1.71	1.71	1.71
	L	700	700	700	700	L	2.30	2.30	2.30	2.30
	H	685	685	685	685	H	2.25	2.25	2.25	2.25
WEIGHT(kg/lbs)		70	80	90	100		154	176	198	221
BLOW OFF V/V(mm/in)		20	30	40	40		3/4	1 1/4	1 1/2	1 1/2
NO FUSE BREAKER(A)		10	15	25	40		10	15	25	40

## WL-ex SERIES

### ANTI EXPLOSIVE TURBO BLOWER

Oil & Gas, Chemical industry end-users sometimes face very hazardous situations. This gives end-users hesitation to apply for energy-efficient turbo machinery due to the concern of explosivity. Turbowin developed WL-ex Series to support these end-users with field sites with the surrounding explosive gas. Turbowin has obtained an IECEx certificate to guarantee the safety of turbomachinery users.



## WL-v SERIES

### VACUUM TURBO BLOWER

Vacuum blowers can be applied for dental clinics or hospitals, optical coating, semiconductor & display, nanoscience, etc. Typically, a general vacuum blower has a limited energy efficiency for many reasons. But Turbowin's WL-v Series successfully overcome these barriers to provide end-users with the world-best quality vacuum airflow.



## WL-d SERIES

### DUAL TYPE TURBO BLOWER

WL-d Series is designed to provide end-users with excellent airflow can paring with the single one therefore, end-user may enjoy the maximum airflow with only one turbomachinery, which has the most comprehensive working range in the world.



## WL-s SERIES

---

### SEPARATED TYPE TURBO BLOWER

Sometimes our end-users may face a complicated situation in the working fieldsite. Based on their critical and specified requirements, Turbowin may provide a separated type turbo blower WL-s Series where control room or Inverter should be separated from motor room. Turbowin's IoT system can support these circumstances much better than any other facility.



## WL-o SERIES

---

### OUTDOOR TYPE TURBO BLOWER

The biggest difference between an outdoor type turbo blower and the so-called usual type turbo blower is the package enclosure. Designed to resist external weather conditions such as raindrops and snow, high salinity due to the coast waves, or any other external reasons, the package enclosure of outdoor type turbo blower is composed of special materials to ensure a much higher quality of the product based on both IP55 & IP65.



## WL-t SERIES

---

### TRIPLE-CORE TURBO BLOWER

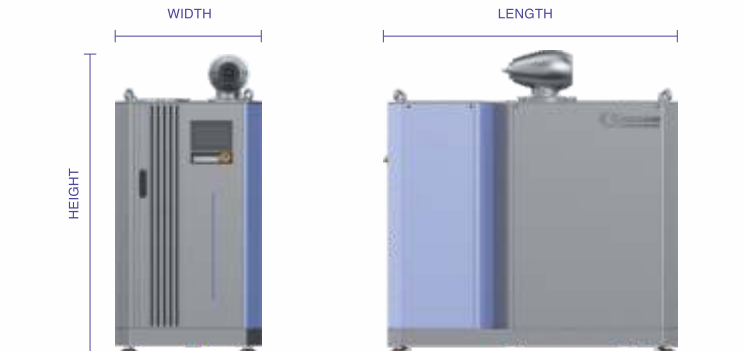
WL-t Series is the world's first turbo blower with three cores and six impellers, covering up to 1500 HP in a single turbo blower, with extreme energy efficiency, durability, and user convenience. WL-t Series eliminates the burden of installing multiple old-fashioned blowers and controls all together with a single WL-t Series, making it very efficient and convenient to manage with cost savings.



# SPECIFICATION

## SINGLE TYPE

Single Motor & Single Impeller



**\*METRIC**

SPECIFICATION		WL-20	WL-30	WL-40	WL-50	WL-75	WL-100	WL-125	WL-150	WL-200	WL-250
DISCHARGE PRESSURE (mmAq)		SINGLE TYPE									
		Air Flow (m <sup>3</sup> /min) : 1atm, 20°C, 65%RH, Tolerance=±5%									
AIR FLOW RATE (m <sup>3</sup> /min)	4,000	-	28	37	47	70	100	115	130	-	-
	6,000	14	20	25	34	51	69	82	105	140	160
	8,000	11	17	22	28	42	55	70	84	109	135
	10,000	8	14	18	21	34	45	55	65	87	104
	12,000	-	-	-	18	28	38	47	57	75	93
SHAFT POWER(HP)		20	30	40	50	75	100	120	150	200	250
EXHAUST PIPE (mm)	4,000	-	150	150	200	250	300	300	300	-	-
	6,000	100	125	150	150	200	200	250	300	300	300
	8,000	100	125	150	150	200	200	200	250	300	300
	10,000	100	100	125	150	150	200	200	200	250	300
	12,000	-	-	-	125	150	150	200	200	200	200
DIMENSION (mm)	W	650	650	700	700	850	850	850	900	900	1200
	L	1100	1100	1300	1300	1500	1500	1500	1800	1800	1900
	H	1000	1000	1100	1100	1400	1400	1400	1650	1650	2000
WEIGHT(kg)		320	350	450	450	550	600	650	800	850	900
BLOW OFF V/V(mm)		50	50	65	65	125	125	125	125	125	125
NO FUSE BREAKER(A)		50	60	100	100	150	200	250	300	350	400

**\*IMPERIAL**

SPECIFICATION		WL-20	WL-30	WL-40	WL-50	WL-75	WL-100	WL-125	WL-150	WL-200	WL-250
DISCHARGE PRESSURE (psi)		SINGLE TYPE									
		Air Flow (cfm) : 14.696psi, 20°C, 65%RH, Tolerance=±5%									
AIR FLOW RATE (cfm)	4,000	-	989	1,306	1,660	2,472	3,531	4,061	4,590	-	-
	6,000	494	706	883	1,201	1,801	2,436	2,895	3,708	4,943	5,650
	8,000	388	600	777	989	1,483	1,942	2,472	2,966	3,849	4,767
	10,000	282	494	636	742	1,201	1,589	1,942	2,295	3,072	3,672
	12,000	-	-	-	636	989	1,342	1,660	2,013	2,648	3,284
SHAFT POWER(HP)		20	30	40	50	75	100	120	150	200	250
EXHAUST PIPE (in)	4,000	-	6	6	8	10	12	12	12	-	-
	6,000	4	5	6	6	8	8	10	12	12	12
	8,000	4	5	6	6	8	8	8	10	12	12
	10,000	4	4	5	6	6	8	8	8	10	12
	12,000	-	-	-	5	6	6	8	8	8	10
DIMENSION (ft)	W	2.13	2.13	2.30	2.30	2.79	2.79	2.79	2.95	2.95	3.93
	L	3.60	3.60	4.26	4.26	4.92	4.92	4.92	5.90	5.90	6.23
	H	3.28	3.28	3.61	3.61	4.59	4.59	4.59	5.41	5.41	6.56
WEIGHT(lbs)		706	772	992	992	1,213	1,323	1,433	1,764	1,874	1,985
BLOW OFF V/V(in)		2	2	2 1/2	2 1/2	5	5	5	5	5	5
NO FUSE BREAKER(A)		50	60	100	100	150	200	250	300	350	400

### TWIN TYPE

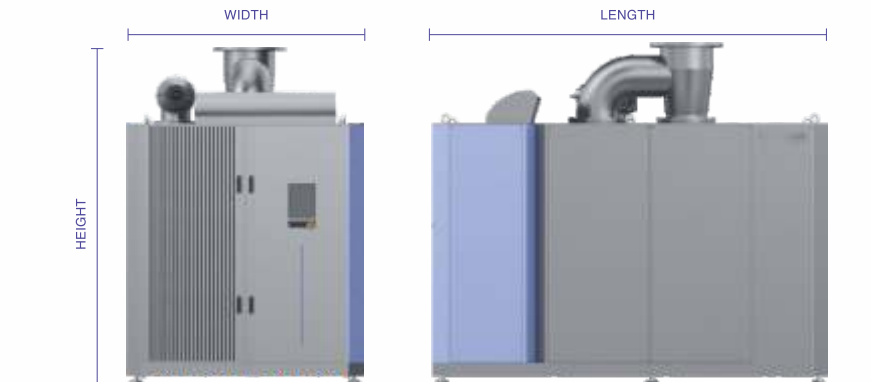
Single Motor & Dual Impellers

### DUAL TYPE

Dual Motors & Dual Impellers

### TRIPLE TYPE

Triple Motors & Six Impellers



**\*METRIC**

SPECIFICATION	WL-200	WL-300	WL-400	WL-500	WL-600	WL-d700	WL-d800	WL-d1000	WL-d1200	WL-t1500	
DISCHARGE PRESSURE (mmAq)		TWIN TYPE					DUAL & TRIPLE TYPE				
		Air Flow (m <sup>3</sup> /min) : 1atm, 20°C, 65%RH, Tolerance=±5%					Air Flow (m <sup>3</sup> /min) : 1atm, 20°C, 65%RH, Tolerance=±5%				
AIR FLOW RATE (m <sup>3</sup> /min)	4,000	200	266	-	-	-	-	-	-	-	
	6,000	-	210	272	320	420	475	540	640	840	
	8,000	-	164	216	270	325	370	430	540	650	
	10,000	-	133	172	208	265	300	340	416	530	
	12,000	-	114	150	185	228	264	300	370	456	
SHAFT POWER(HP)		220	300	400	500	600	700	800	1000	1200	
EXHAUST PIPE (mm)	4,000	400	400	-	-	-	-	-	-	-	
	6,000	-	400	400	500	500	600	600	700	700	
	8,000	-	400	400	400	500	500	600	600	700	
	10,000	-	300	400	400	400	400	500	600	600	
	12,000	-	300	300	400	400	400	400	500	600	
DIMENSION (mm)	W	1200	1200	1600	1600	1900	2200	2200	3200	3200	
	L	2200	2200	3000	3000	3500	3500	3500	3500	3700	
	H	2000	2000	2000	2000	2000	2100	2100	2100	2100	
WEIGHT(kg)		1300	1500	1700	2000	3000	3200	3500	5000	6000	
BLOW OFF V/V(mm)		175	175	175	175*2	175*2	175*2	175*2	175*4	175*4	
NO FUSE BREAKER(A)		400	500	630	800	500*2	630*2	630*2	800*2	800*2	

**\*IMPERIAL**

SPECIFICATION	WL-200	WL-300	WL-400	WL-500	WL-600	WL-d700	WL-d800	WL-d1000	WL-d1200	WL-t1500	
DISCHARGE PRESSURE (psi)		TWIN TYPE					DUAL & TRIPLE TYPE				
		Air Flow (cfm) : 14.696psi, 20°C, 65%RH, Tolerance=±5%					Air Flow (cfm) : 14.696psi, 20°C, 65%RH, Tolerance=±5%				
AIR FLOW RATE (cfm)	4,000	7,062	9,392	-	-	-	-	-	-	-	
	6,000	-	7,415	9,604	11,299	14,830	16,772	19,067	22,598	29,660	
	8,000	-	5,791	7,627	9,534	11,476	13,065	15,183	19,067	22,952	
	10,000	-	4,696	6,073	7,344	9,357	10,593	12,005	14,689	18,714	
	12,000	-	4,025	5,297	6,532	8,051	9,322	10,593	13,065	16,101	
SHAFT POWER(HP)		220	300	400	500	600	700	800	1000	1200	
EXHAUST PIPE (in)	4,000	16	16	-	-	-	-	-	-	-	
	6,000	-	16	16	20	20	24	24	28	28	
	8,000	-	16	16	16	20	20	24	24	28	
	10,000	-	12	16	16	16	16	20	24	24	
	12,000	-	12	12	16	16	16	16	20	24	
DIMENSION (ft)	W	3.94	3.94	5.25	5.25	6.23	7.22	7.22	10.50	10.50	
	L	7.22	7.22	9.84	9.84	11.48	11.48	11.48	11.48	12.14	
	H	6.56	6.56	6.56	6.56	6.56	6.89	6.89	6.89	6.89	
WEIGHT(lbs)		2,867	3,308	3,749	4,410	6,615	7,056	7,718	11,025	13,230	
BLOW OFF V/V(in)		7	7	7	7*2	7*2	7*2	7*2	7*4	7*4	
NO FUSE BREAKER(A)		400	500	630	800	500*2	630*2	630*2	800*2	800*2	

## Turbowin Co., Ltd.

Turbowin Headquarters

R&D, Production, Technology Service Center

633 Jeongjung Village, Osong Town, Chengju City,  
Chungchengbuk Province, Republic of Korea (Zip Code: 28164)

T. +82 43 - 214 - 0799

F. +82 43 - 216 - 0799

E. [info1@turbowin.com](mailto:info1@turbowin.com)

## Turbowin Global Co., Ltd.

Subsidiary of Turbowin

Global Sales, Marketing & Strategic Management

6/8 Fl, Hyoje Building, 427 Seolleung Road,  
Gangnam District, Seoul Metropolitan, Republic of Korea (Zip Code: 06212)

T. +82 2 - 554 - 0799

F. +82 2 - 556 - 0799

E. [info@turbowin.com](mailto:info@turbowin.com)



© Copyright 2022 Turbowin Co., Ltd. All rights reserved.

Telephone: 03 9768 3240  
Facsimile: 03 9768 3250

[sales@emtivac.com](mailto:sales@emtivac.com)  
[www.emtivar.com.au](http://www.emtivar.com.au)

**EMTIVAC Engineering Pty. Ltd.**  
ABN 89 080 463 556



**Factory and Head Office:**  
170-174 Discovery Road,  
Dandenong South VIC 3175



**EMTIVAC**  
VACUUM PUMP & SYSTEM ENGINEERS