

Pure Air, Naturally Lubricated

LY-WPM SERIES

Power Range: 7.5 -250kW

The absolute choice for sterile environments — pharmaceutical, food, medical, and electronics-grade breathing air.

100% Oil-Free Class 0

<50°C Isothermal Discharge

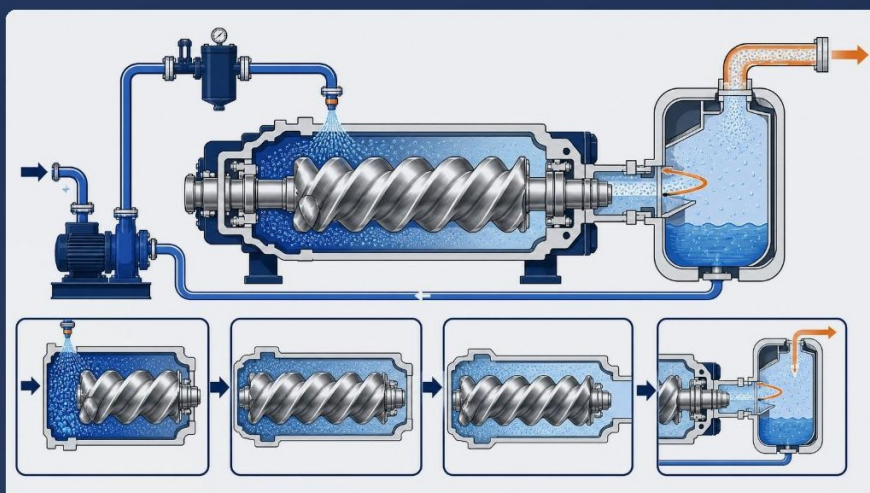
304L Stainless Internals

1.5 bar Tap Water Feed

55°C Export Ambient Rating

CE & ISO 9001 Certified

MAINTENANCE CYCLE: Automatic water flush / replacement every **500–800 hours** · Air & water filter service every **1,500–2,500 hours**



AirSpace Machinery Co., Ltd.

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SECTION 01

The Engineering Moat

Two decades of compressed-air engineering, distilled into a 4,000 m² advanced manufacturing facility in Shanghai. We don't just build compressors — we engineer uptime.

4,000

M² FACILITY

20

YEARS HERITAGE

100%

DIRECT-DRIVE

35

DAY DELIVERY

01

The Fourth Utility

Compressed air is the lifeblood of modern manufacturing — electricity, water, and gas are the first three utilities; clean compressed air is the fourth. AirSpace engineers it to Class 0 purity, on demand, for the world's most demanding production lines.

02

Shanghai Manufacturing Base

A purpose-built 4,000 m² facility houses precision rotor machining, stainless-steel air-end assembly, water-lubrication system integration, and full-load factory acceptance testing (FAT) on every unit before it ships.

03

Engineering Heritage

Twenty years of continuous screw-compressor engineering — from fixed-speed workhorses to oil-free water-lubricated Class 0 systems. Every design iteration is validated against real plant-floor data, not just lab conditions.

"We engineer uptime." — The AirSpace Machinery founding principle

SECTION 02

Technical Advantages

Isothermal Power & Water System — the physics of water-lubricated compression that no oil-injected unit can match.



100% Oil-Free — Class 0

Water replaces oil entirely in the compression chamber. Zero risk of hydrocarbon contamination. ISO 8573-1 Class 0 certified by independent lab — not a marketing claim, a verified guarantee for pharmaceutical, food, and medical breathing-air applications.



Isothermal Compression <50°C

Water's high specific heat capacity absorbs compression heat in real time, holding discharge temperature below 50°C. This near-isothermal process maximizes thermodynamic efficiency and eliminates thermal stress on downstream seals and piping.



304L Stainless Steel Internals

The air-end rotors, housing, and all water-contact components are 304L stainless steel — preventing scaling, rust, and galvanic corrosion over decades of water-lubricated service life.

Direct Tap Water Connection

The water-lubrication system connects directly to standard municipal tap water. No purified-water loop, no deionized feed, no complex pre-treatment — just connect and run. A minimum supply pressure of **1.5 bar** is required to maintain positive injection flow across all operating points.

Min Supply Pressure: 1.5 bar · Source: Standard Tap Water

Automated Maintenance Schedule

500–800h

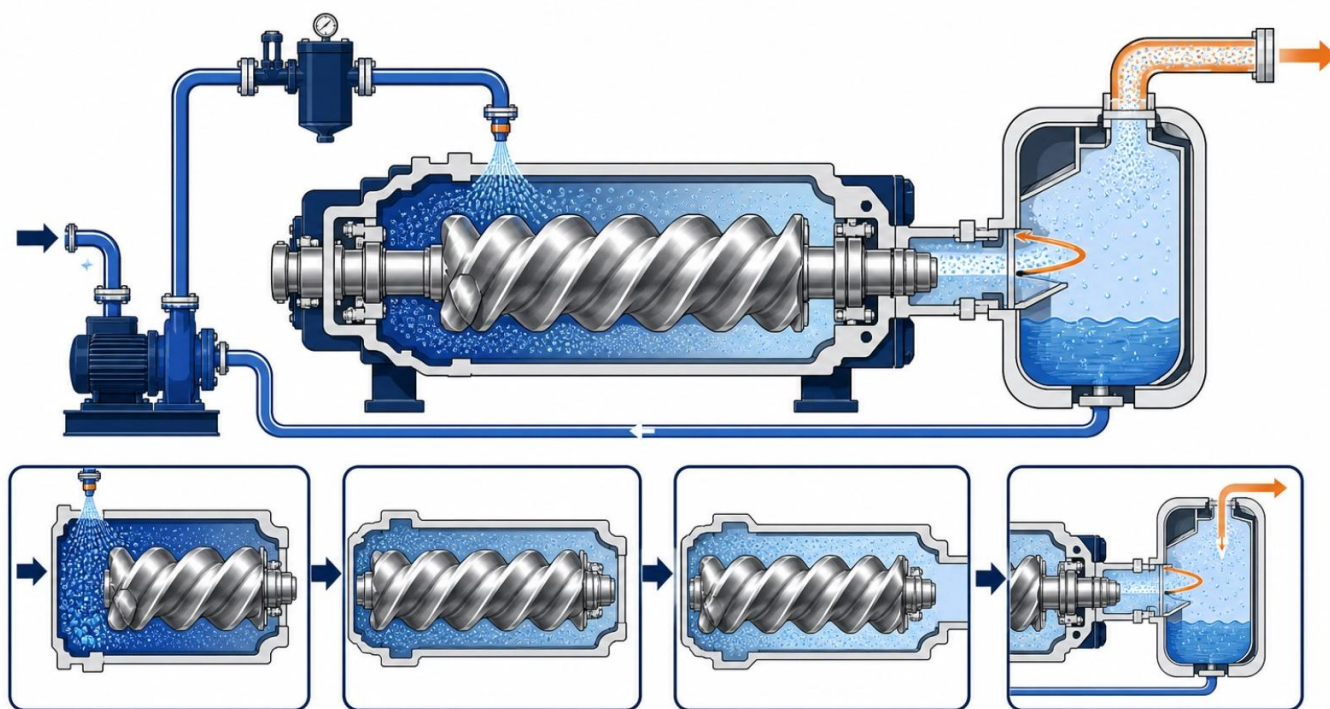
OPERATING HOURS

Automatic Water Flush & Replacement. The controller initiates an automated drain-and-refresh cycle, purging dissolved minerals and biological contamination from the water circuit. Ensures consistent cooling performance and protects 304L internals against scale buildup.

1,500–2,500h

OPERATING HOURS

Air Filter & Water Filter Service. Scheduled replacement or backwash of intake air filters and inline water filtration elements. Maintains ISO 8573-1 Class 0 air purity and preserves injection-water cleanliness across the full service interval.



Water-Lubricated Oil-Free Compression Cycle — water injection enables isothermal compression (<50°C) while 304L stainless internals ensure corrosion-free Class 0 air delivery.

SECTION 03

Export Excellence

The Global Wedge — engineered for the world's harshest climates, shipped on the world's fastest timeline.



55°C Export Ambient Rating

Standard on every export unit. While legacy brands thermal-trip at 40°C, AirSpace keeps your line running through Middle East heatwaves, equatorial summers, and Southeast Asian monsoon humidity. Third-party verified 55°C continuous-operation data provided with every shipment.



7-35 Day Factory-Direct Delivery

Pre-cleared customs dossiers and a vertically integrated Shanghai production line let us bypass global port congestion. From RFQ confirmation to container loading: 7 to 35 days, depending on model and configuration. The "Strike Delivery" that Tier 1 incumbents cannot match.



Multi-Region Compliance

A complete 9-country compliance library — CE, ISO 9001, BIS, SABER, and more — ships with every unit. We remove the friction of international procurement so your procurement team can focus on installation, not paperwork.

CE

European Union

ISO 9001

Global Quality

BIS

India — IS 17093

SABER

Saudi Arabia

Product Lineup — Technical Data

Complete 5.5 kW to 250 kW KB/LY-WPM Series specification matrix. Nineteen models covering pharmaceutical, food processing, medical breathing air, and clean-tech electronics applications.

MODEL	POWER (KW)	POWER (HP)	PRESSURE (BAR)	FAD (M³/MIN)	DIMENSIONS L×W×H (MM)	WEIGHT (KG)
LY-WPM 5.5	5.5	7.5	8–10	0.65–0.55	900×650×1000	280
LY-WPM 7.5	7.5	10	8–10	0.95–0.80	1000×720×1050	320
LY-WPM 11	11	15	8–10	1.50–1.30	1000×720×1050	380
LY-WPM 15	15	20	8–10	2.20–1.90	1156×845×1250	510
LY-WPM 18.5	18.5	25	8–10	2.80–2.40	1156×845×1250	560
LY-WPM 22	22	30	8–10	3.40–3.00	1360×945×1260	650
LY-WPM 30	30	40	8–10	4.80–4.20	1520×1060×1390	800
LY-WPM 37	37	50	8–10	6.00–5.20	1520×1060×1390	850
LY-WPM 45	45	60	8–10	7.20–6.30	1760×1160×1490	1050
LY-WPM 55	55	75	8–10	9.20–8.00	1760×1160×1490	1200
LY-WPM 75	75	100	8–10	12.50–10.50	1900×1250×1360	1430
LY-WPM 90	90	125	8–10	15.00–13.00	2000×1300×1450	1700
LY-WPM 110	110	150	8–10	18.50–16.00	2100×1400×1550	2100
LY-WPM 132	132	180	8–10	22.00–19.00	2200×1450×1600	2500
LY-WPM 160	160	220	8–10	26.50–23.00	2400×1500×1700	3100
LY-WPM 185	185	250	8–10	30.50–26.50	2500×1550×1750	3500
LY-WPM 200	200	270	8–10	33.00–28.50	2550×1600×1800	3800
LY-WPM 220	220	300	8–10	36.50–31.50	2600×1650×1850	4100
LY-WPM 250	250	340	8–10	41.50–36.00	2700×1700×1900	4600

Notes: FAD (Free Air Delivery) values shown as range at 8–10 bar working pressure. All models feature 304L stainless steel air-end internals, water-lubricated compression (<50°C discharge), IE5+ permanent-magnet direct-drive motors, IP55 protection, and 55°C export ambient rating. Water supply: standard tap water, minimum 1.5 bar pressure. Dimensions and weights are approximate and may vary by configuration. Full test data and compliance dossiers available on request.

SECTION 05

The AirSpace ROI Audit & Zero Ransom

The financial case is engineering, not marketing. A 35% energy delta, a structured audit, and a policy that ends proprietary lock-in for good.



The 3-Step ROI Audit

01

Identify Current Load & Pressure

Read the nameplate on your existing compressor for rated motor power (HP or kW) and the working pressure your process demands (bar). These two figures set your baseline energy footprint.

02

Calculate Annual Operating Hours

Multiply daily running hours by operating days per year. Two-shift and 24/7 plants carry the highest energy weight — and the biggest upside from variable-speed PMV control.

03

Factor in the “Unload Tax”

Fixed-speed units draw 40–70% of full-load power when unloaded. Estimate idle-time share — this hidden cost is what PMV+VFD technology eliminates. Send your numbers and receive a verified savings projection within one business day.

Typical payback: 12–18 months · Energy-funded · 10-year TCO savings stack across seven compounding factors

The Zero Ransom Policy

No proprietary software locks. No encrypted controller firmware. No captive spare-parts pricing. Every AirSpace compressor ships with full software and hardware transparency — you own the machine, you own the data, you own the service timeline. We compete on engineering, not on ransom.



No proprietary software locks or encrypted firmware — open controller architecture



Full hardware transparency — standard parts, no captive spares pricing



Your data, your dashboard — no vendor-locked telemetry or paywalled monitoring

SECTION 06

Contact & Certification

Direct access to AirSpace Machinery's engineering and export team — no distributor layers, no markups, no delays.

AirSpace Machinery Co., Ltd.

Helping Cut Energy Cost by 35–50% · PMV & Oil-Free Technical Consultant

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EMA

CE CERTIFIED

ISO 9001:2015

ISO 8573-1 CLASS 0

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Request Your Tailored 1-Page ROI Audit →

Send your site specifications and operating parameters. Our engineering team will return a verified savings projection, equipment recommendation, and delivery timeline within one business day.

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