

INNOVATING FOR STABLE PERFORMANCE

VERDES AIR COMPRESSOR

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LOW PRESSURE SCREW AIR COMPRESSOR

Built for demanding industrial air systems



Disclaimer: The parameters listed are for reference only and are subject to change without prior notice. Please contact us for the most current specifications.

OPENING STATEMENT

Low-pressure compressed air is not about pushing pressure lower. It is about delivering more air with less energy, improving efficiency, and reducing operating costs.

In low-pressure applications, every unnecessary pressure increase means wasted energy and higher expenses. That is why low-pressure systems must be optimized for airflow and efficiency from the core, not adjusted afterward.

WHY LOW PRESSURE NEEDS A DIFFERENT DESIGN LOGIC

Low-pressure operation demands higher airflow, optimized efficiency, and precise system matching rather than increased pressure.

Unlike standard compressors, low-pressure systems must deliver large air volumes continuously with minimal energy consumption, where efficiency directly impacts operating cost.

PRODUCT OVERVIEW

Low Pressure Screw Air Compressor

Designed for energy-efficient and continuous operation

Pressure Range: 3 bar / 4 bar / 5 bar

Power Range: Customized for demanding applications

Typical Applications: textile industry, glass processing, cement conveying, wastewater treatment



SAVING ENERGY 30%-50%



4-5 Bar
Low Pressure Range



30-50%
Power Saving



HIGH-EFFICIENCY AIREND FOR LOW PRESSURE OPERATION

- The air-end is the heart of any low-pressure compressor.
- Our low-pressure air ends are specially engineered for large air delivery, reduced discharge pressure, and continuous operation.
- Optimized rotor profiles and advanced design ensure high volumetric efficiency, stable performance, and long service life in energy-demanding applications.

PERMANENT MAGNET MOTOR

- PM motor with high-performance neodymium iron boron (NdFeB) magnets
- The service life is more than 15 years
- The level 1 energy saving PM motor
- Cancels the loss of the excitation system which improves efficiency 5%-12%

SMART TOUCH SCREEN PANEL

- Supports multiple languages
- Control panel has the remind & record function, Display the compressor situation clearly
- Monitor & control key compressor functions



EFFICIENT OIL SEPARATION & CLEAN AIR OUTPUT

- The oil separation system is specially designed for low-pressure, high-flow conditions, minimizing pressure loss while maintaining excellent separation efficiency, ensuring clean air supply and improved energy performance.



Type	Power		Max. Working Pressure		F.A.D		Noise dB(A)	Connection	Dimension (mm) L*W*H	Weight kg
	kw	hp	bar	psi	m ³ /min	cfm				
VDSL15	11	15	4	116	3.2	38.8	68±2	G1	1300*980*1220	500
VDSL20	15	20	4	116	4.2	66.4	68±2	G1	1300*980*1220	550
VDSL25	18.5	25	4	116	4.5	77.7	68±2	G1 1/2	1400*1100*1450	700
VDSL30	22	30	4	116	6.2	105.9	68±2	G1 1/2	1400*1100*1450	800
VDSL40	30	40	4	116	8.5	127.1	68±2	G1 1/2	1400*1100*1450	850
VDSL50	37	50	4	116	10.3	176.6	70±2	G1 1/2	2100*1440*1650	1600
VDSL60	45	60	4	116	12.2	218.9	70±2	G1 1/2	2100*1440*1650	1650
VDSL60	55	75	4	116	15.5	257.8	72±2	DN65	2450*1700*1765	2350
VDSL100	75	100	4	116	20.5	324.9	72±2	DN80	2600*1900*1890	2800
VDSL120	90	120	4	116	26.5	444.9	75±2	DN80	2600*1900*1890	2800
VDSL150	110	150	4	116	28.0	529.7	75±2	DN80	2600*1900*1890	2900
VDSL175	132	175	4	116	38.0	699.1	79±2	DN100	3250*2100*2200	4000
VDSL215	160	215	4	116	47.0	780.4	79±2	DN125	3550*2300*2300	5500
VDSL250	185	250	4	116	52.0	1006.5	79±2	DN125	3800*2300*2200	6000
VDSL270	200	270	4	116	57.0	1059.4	82±2	DN125	3800*2300*2200	6500
VDSL300	220	300	4	116	62.0	1147.7	82±2	DN125	4300*2300*2430	8000