



# LOW PRESSURE SCREW AIR COMPRESSOR

Built for demanding industrial air systems

## INNOVATING FOR STABLE PERFORMANCE

### VERDES AIR COMPRESSOR

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

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# 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

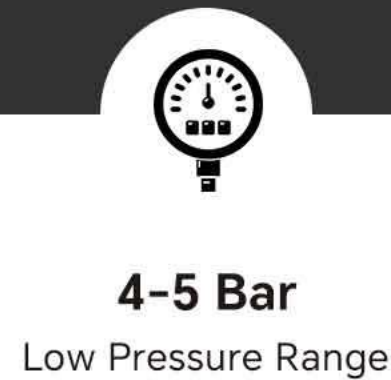
Pressure Range: 3 bar / 4 bar / 5 bar

Power Range: Customized for demanding applications

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



# SAVING ENERGY 30%-50%



## 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

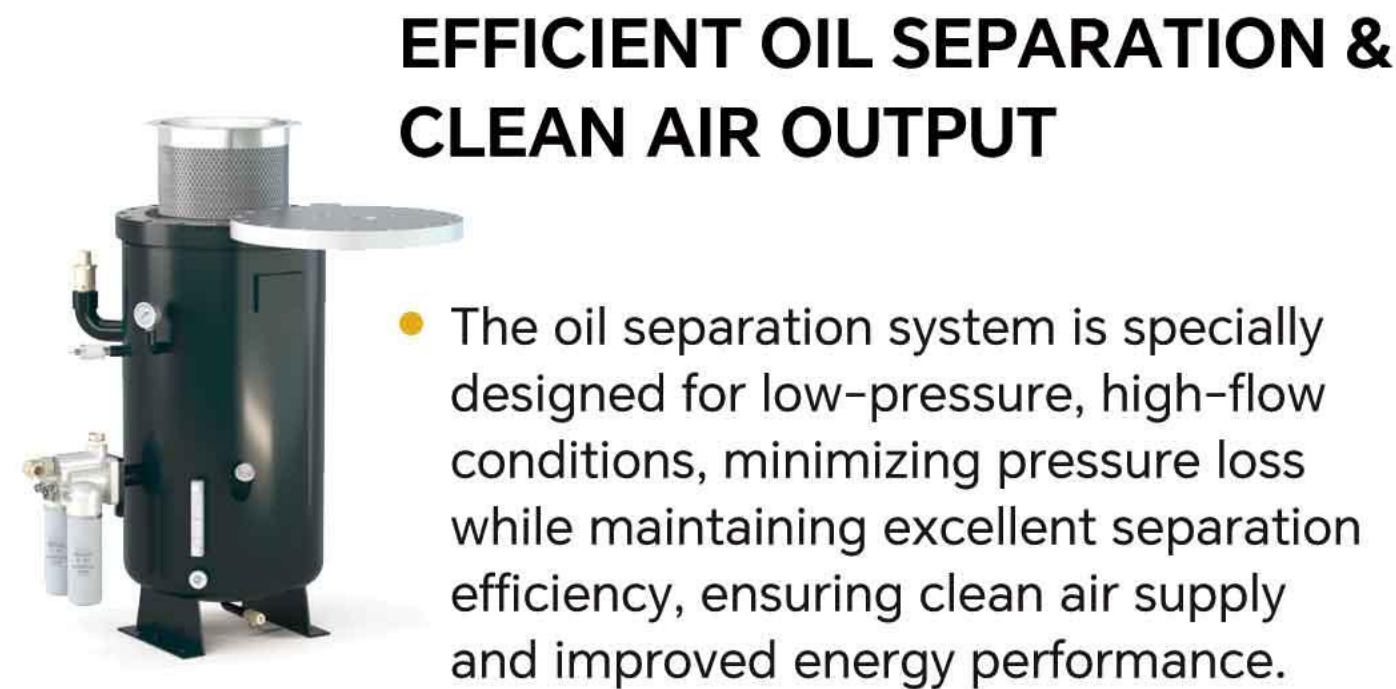
- PM motor with high-performance neodymium iron boron (NdFeB) magnets
- The service life is more than 15 years
- The level 1 energy saving PM motor
- Cancels the loss of the excitation system which improves efficiency 5%-12%

## SMART TOUCH SCREEN PANEL

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



| Type   | Power |     | Max. Working Pressure |     | F.A.D  |        | Noise<br>dB(A) | Connection | Dimension<br>(mm)<br>L*W*H | Weight<br>kg |
|--------|-------|-----|-----------------------|-----|--------|--------|----------------|------------|----------------------------|--------------|
|        | kw    | hp  | bar                   | psi | m³/min | cfm    |                |            |                            |              |
| VDL15  | 11    | 15  | 4                     | 116 | 3.2    | 38.8   | 68±2           | G1         | 1300*980*1220              | 500          |
| VDL20  | 15    | 20  | 4                     | 116 | 4.2    | 66.4   | 68±2           | G1         | 1300*980*1220              | 550          |
| VDL25  | 18.5  | 25  | 4                     | 116 | 4.5    | 77.7   | 68±2           | G1 1/2     | 1400*1100*1450             | 700          |
| VDL30  | 22    | 30  | 4                     | 116 | 6.2    | 105.9  | 68±2           | G1 1/2     | 1400*1100*1450             | 800          |
| VDL40  | 30    | 40  | 4                     | 116 | 8.5    | 127.1  | 68±2           | G1 1/2     | 1400*1100*1450             | 850          |
| VDL50  | 37    | 50  | 4                     | 116 | 10.3   | 176.6  | 70±2           | G1 1/2     | 2100*1440*1650             | 1600         |
| VDL60  | 45    | 60  | 4                     | 116 | 12.2   | 218.9  | 70±2           | G1 1/2     | 2100*1440*1650             | 1650         |
| VDL60  | 55    | 75  | 4                     | 116 | 15.5   | 257.8  | 72±2           | DN65       | 2450*1700*1765             | 2350         |
| VDL100 | 75    | 100 | 4                     | 116 | 20.5   | 324.9  | 72±2           | DN80       | 2600*1900*1890             | 2800         |
| VDL120 | 90    | 120 | 4                     | 116 | 26.5   | 444.9  | 75±2           | DN80       | 2600*1900*1890             | 2800         |
| VDL150 | 110   | 150 | 4                     | 116 | 28.0   | 529.7  | 75±2           | DN80       | 2600*1900*1890             | 2900         |
| VDL175 | 132   | 175 | 4                     | 116 | 38.0   | 699.1  | 79±2           | DN100      | 3250*2100*2200             | 4000         |
| VDL215 | 160   | 215 | 4                     | 116 | 47.0   | 780.4  | 79±2           | DN125      | 3550*2300*2300             | 5500         |
| VDL250 | 185   | 250 | 4                     | 116 | 52.0   | 1006.5 | 79±2           | DN125      | 3800*2300*2200             | 6000         |
| VDL270 | 200   | 270 | 4                     | 116 | 57.0   | 1059.4 | 82±2           | DN125      | 3800*2300*2200             | 6500         |
| VDL300 | 220   | 300 | 4                     | 116 | 62.0   | 1147.7 | 82±2           | DN125      | 4300*2300*2430             | 8000         |



## 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.