

AIRESTON



PERMANENT MAGNET SINGLE STAGE SCREW AIR COMPRESSOR SERIES



PERMANENT MAGNET INVERTER COMPRESSOR TECHNICAL PARAMETERS

Model	Max Pressure			Capacity M3/MIN	Motor		Outlet Size	Dimensions (mm)			Weight KG	Noise Level dB(A)
	Bar	PSI	mPA		kW	HP		L	W	H		
AS-10VSD	8	116	0.8	1.10	7.5	10	3/4"	860	630	840	135	68
	10	145	1.0	0.95								
AS-15VSD	8	116	0.8	1.50	11	15	3/4"	1080	750	1000	225	70
	10	145	1.0	1.30								
AS-20VSD	8	116	0.8	2.30	15	20	3/4"	1080	750	1000	235	70
	10	145	1.0	2.10								
AS-30VSD	8	116	0.8	3.60	22	30	1"	1120	880	1200	320	75
	10	145	1.0	3.20								
AS-50VSD	8	116	0.8	6.20	37	50	1 1/2"	1250	1000	1390	480	76
	10	145	1.0	5.60								
AS-75VSD	8	116	0.8	9.60	55	75	2"	1800	1250	1660	1010	78
	10	145	1.0	8.50								
AS-100VSD	8	116	0.8	13.80	75	100	2"	1800	1250	1660	1050	78
	10	145	1.0	12.60								

*Specifications may be subjected to changes, please refer to machine tag.

01

Axial Intake, High-Efficiency Main Engine

Engineered for superior performance, this component offers high efficiency, low noise, minimal vibration, and exceptional reliability. Its design reduces compression losses and air leakage, while dual bearing housings extend operational lifespan.

02

High-Efficiency Permanent Magnet Motor

Rated IP54, this high-performance motor maximises energy savings and output stability. It operates efficiently under variable load conditions and improves overall system efficiency by 5-8%.

03

High-Efficiency Oil-Gas Separator

Designed for optimal separation, this unit uses a simplified structure and high-efficiency core to deliver up to 8000 hours of service life, significantly reducing compression losses.

04

High-Precision Air Filter

Featuring low resistance and long service life (up to 4000 hours), the filter ensures precise filtration to protect internal components and bearings from contaminants.

05

Advanced Air Inlet Control System

This system draws in cooler ambient air independently, reducing energy loss and enhancing intake volume. It supports consistent, high-reliability compressor operation.

06

Intelligent Microcomputer Control System

A user-friendly interface with multi-mode control, real-time monitoring, and automated safety features ensures operational efficiency and system protection.

07

High-Performance Frequency Converter

This universal frequency converter reduces energy consumption, improves transmission efficiency, minimises noise, and enhances product quality across applications.

08

Optimised Cooling System

Designed for high heat exchange efficiency, this system reduces internal temperatures by 2-3°C, extending component lifespan and ensuring stable performance.