

30kW to 55kW
rotary screw air compressors
fixed and variable speed



Avelair
compressed air solutions

Reliability you can trust.





About the team

Avelair is a UK company specialising in the design and manufacturer of efficient air compressors. We have an in-house team of compressor specialists with over 150 years experience, passionate about exceptional design, reliability and energy efficiency.

With a factory trained technical support team and readily available service components, we offer an unrivalled service. Our philosophy is to focus on exceptional customer care as a foundation for long term relationships with our customers.

Quality

We are a long standing member of the British Compressed Air Society and we work in line with their professional values. Thanks to our UKAS accredited ISO 9001 quality system we continuously achieve high quality design and manufacturing.



Made in Britain is something we are extremely proud of and ensures we offer the best possible quality product in terms of reliability, safety and efficiency through innovative design and build.



Our confidence in our compressors is reflected in our 5 year warranty, ensuring long term peace of mind. Our comprehensive warranty covers all major components with unlimited hours of use.



How we stand out

The Avelair air compressors use the latest rotary screw technology assuring superior reliability and long term satisfaction. Our constant drive to innovate has led to one of the most efficient and reliable compressor on the market today. Our confidence in our compressors is reflected in our 5 year warranty. Best of all, we design and manufacture the compressors here in the UK, which means quality workmanship and total technical backup whenever you need it.

Proven design

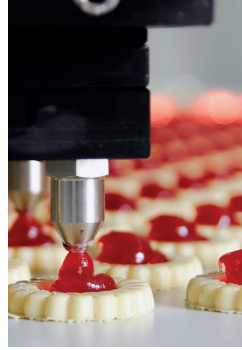
The Avelair air compressor is one of the market leaders using our NK EVO | TECHNOLOGY with rolling profile ensuring long term reliability and low noise levels. With over 20 years of compressor manufacturing, we are confident we can offer unrivalled quality, reliability and efficiency. Avelair NK EVO | TECHNOLOGY offers efficient quiet operation and is designed for continual use 24/7.

Energy efficient

Our rotary screw airend uses the latest in built NK EVO | TECHNOLOGY offering highly efficient air output to energy input. Along with compressor management controllers, high efficiency motors and the option of inverter driven, you can be confident of enhanced future savings.

Unrivalled service backup

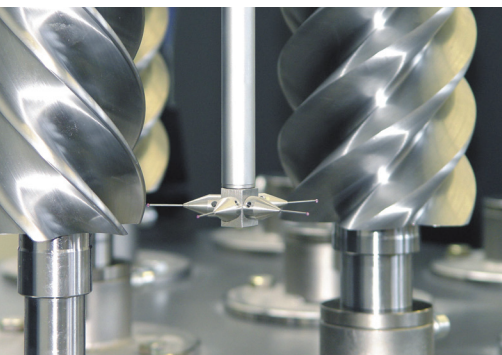
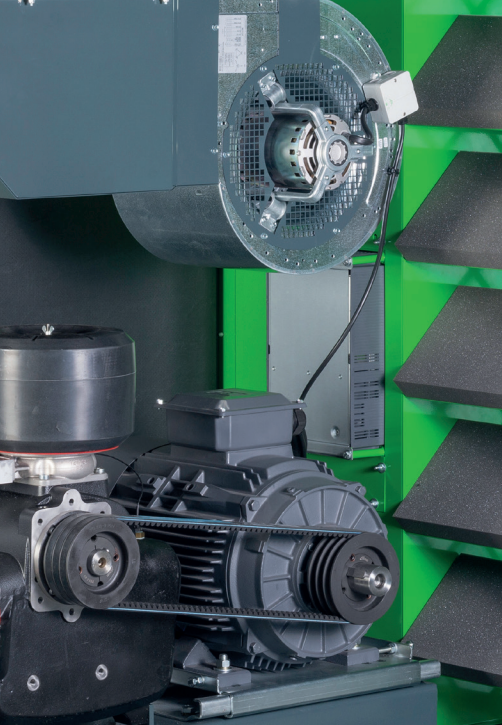
Avelair and our global distributor network offer excellent local service ensuring long term confidence in your investment. High quality and proven genuine spare parts and components provide the best protection for your compressors for long term satisfaction.



SOME OF OUR CLIENTS

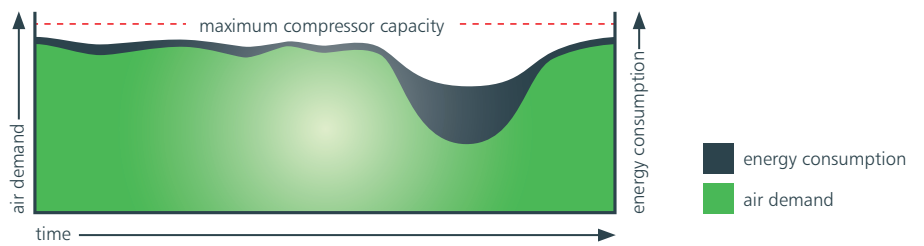


Mercedes-Benz



Fixed speed rotary screw compressors

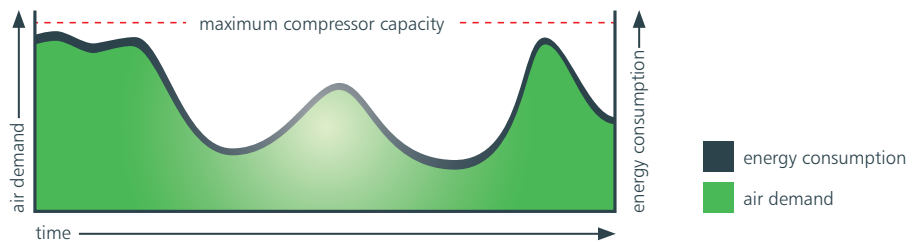
- Ideal for compressed air users who have a fairly constant demand or who require a base load compressor to work alongside a variable speed compressor.
- High performance air ends ensure high air output from energy input ensuring cost effective production of air.
- Premium IE3 efficiency motors ensure optimum running efficiency and longer service life.
- Tried and tested components ensure long term reliability.



The Avelair fixed speed compressors are efficient for constant air demand users. When air demand reduces, the compressor will run offload making it less efficient to run than a variable speed compressor.

Variable speed rotary screw compressors

- The perfect choice for users who have a variable compressed air demand.
- The compressors use a high performance inverter to smoothly alter the motor speed in response to demand for air, ensuring there is minimum offload running. You only pay for the compressed air you use.
- In many cases this can reduce energy costs by 35% or more, with paybacks from around 6 - 18 months.
- The inverter further saves energy by accurately maintaining the system pressure within a 0.2 bar margin, and by soft starting which reduces start up current peaks and wear on the motor and drive system.



The Avelair variable speed compressors mirror the demand for air by altering the motor speed ensuring optimum energy efficiency.

30kW to 55kW rotary screw air compressor

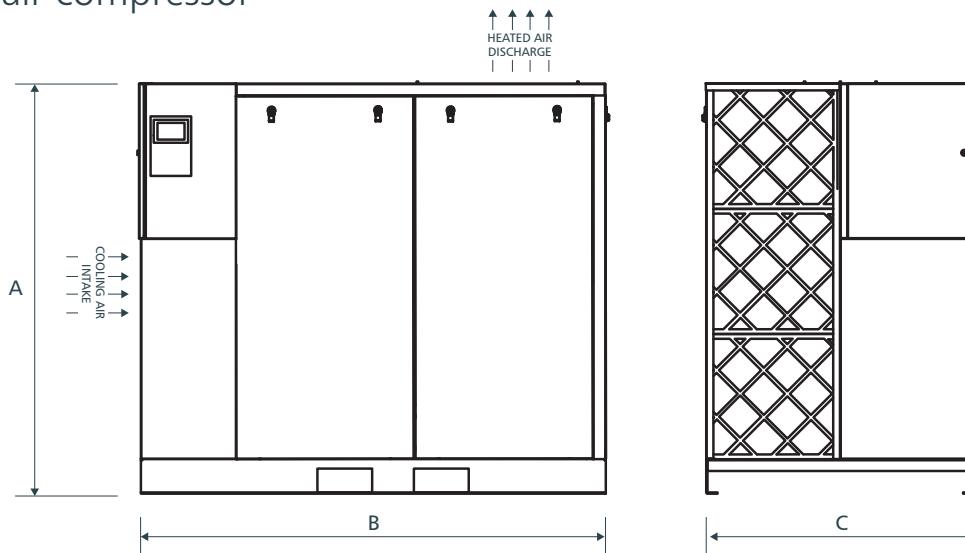


1. Designed and manufactured here in the UK, which means quality workmanship and total technical backup whenever you need
2. 5 year parts warranty is offered ensuring long term peace of mind
3. Blower type fan - efficient, ultra quiet and suitable for high ambient temperatures
4. High performance encapsulated air ends - optimum air output from power input and no separator vessel inspections required, reducing future costs
5. Premium efficiency IE3 motors - reduced running costs and longer service life
6. Electronic control system - user friendly information at the touch of a button. Offers the ability to link in to a compressor management system
7. Ease of maintenance from the front of the compressor spin on / off separators and oil filters - reduced service costs. Unrivalled access for maintenance.
8. High quality robust steel enclosure and acoustic foam for low noise operation
9. Rigid steel piping for oil and air - no expensive hose replacements or leaks
10. Pre intake filter panel ensuring clean internal environment

Options available:

- fixed speed or variable speed
- water cooled
- air and water cooled

30kW to 55kW rotary screw air compressor



Model	RMS 30	VSD 30 L	RMS 37	VSD 37	RMS 45	VSD 45	RMS 55	VSD 55
Motor	30 kW	30 kW	37 kW	37 kW	45 kW	22 kW	55 kW	55 kW
Type (speed)	Fixed	Variable	Fixed	Variable	Fixed	Variable	Fixed	Variable
Capacity 8 bar +	181 cfm	181 cfm	216 cfm	216 cfm	263 cfm	263 cfm	327 cfm	327 cfm
Capacity 10 bar +	162 cfm	162 cfm	195 cfm	195 cfm	240 cfm	240 cfm	288 cfm	288 cfm
Capacity 13 bar +	139 cfm	139 cfm	169 cfm	169 cfm	210 cfm	210 cfm	245 cfm	243 cfm
External isolator current rating (Ie)	100A	100A	100A	125A	100A	160A	125A	200A
SWA incoming cable size 30°C	16mm	25mm	16mm	35mm	25mm	35mm	35mm	50mm
Circuit breaker rating (Amps)	100A	90A	100A	100A	125A	125A	160A	160A
Circuit breaker setting (Amps)	80A	80A	80A	100A	100A	120A	125A	150A
Circuit breaker type	MCCB*	MCCB*	MCCB*	MCCB*	MCCB*	MCCB*	MCCB*	MCCB*
Fuse rating	80A	100A	80A	100A	100A	125A	125A	160A
Fuse class	aM	gG	aM	gG	aM	gG	aM	gG
Fuse type	HRC	HRC	HRC	HRC	HRC	HRC	HRC	HRC
Starter	Star Delta	Inverter start	Star Delta	Inverter start	Star Delta	Inverter start	Star Delta	Inverter start
Height** (A)	1,720 mm	1,720 mm	1,720 mm	1,720 mm	1,720 mm	1,720 mm	1,720 mm	1,720 mm
Length** (B)	1,950 mm	1,950 mm	1,950 mm	1,950 mm	1,950 mm	1,950 mm	1,950 mm	1,950 mm
Width** (C)	1,127 mm	1,127 mm	1,127 mm	1,127 mm	1,127 mm	1,127 mm	1,127 mm	1,127 mm
Weight	800 kg	810 kg	805 kg	820 kg	840 kg	850 kg	860 kg	870 kg
Cooling air required	5,500 m ³ /hr	5,500 m ³ /hr	8,000 m ³ /hr	8,000 m ³ /hr	8,000 m ³ /hr	8,000 m ³ /hr	8,000 m ³ /hr	8,000 m ³ /hr
Min / Max amb temp	>1°C/40°C	>1°C/40°C	>1°C/40°C	>1°C/40°C	>1°C/40°C	>1°C/40°C	>1°C/40°C	>1°C/40°C

General Data

Motor enclosure	IP55
Motor Insulation / temp rise	Class F / B
Electrical enclosure	IP54
Control circuit	24 Vac
Oil carry over	2/3 ppm
Noise level at 1 metre	76 dB(A)
Max / min pressure switch d/p	2.5 / 0.7 bar
Outlet connection size	1 1/4" bspp m
Oil capacity (30-45)	23 litres
Oil capacity (55)	35 litres

Important note: All values given are for guidance only. The individual site electrical characteristics MUST be measured and assessed by a qualified electrician in regards to suitable electrical equipment specification, installation and connection.

Please note: The cable size guidance has been provided with the following assumptions. Cable type, Multicore armoured 90°C thermosetting insulated cables (SWA, Table 4E4 of BS7671), installed using Reference Method E, in a maximum ambient air temperature of 30°C, with cable length being less than 20m.

If the proposed installation is outside the above specification, then the installation electrician MUST re-assess the suitability of the cable in line with the requirements of BS7671 IET Wiring Regulations.

Note: If the compressor has an autodrain or dryer built on, then in addition, a **neutral supply** will be required. Dimensions and weight vary depending on special requirements.

* Device type, general purpose for line protection. Combined thermal / magnetic device.

** Measurements do not include such items as isolator, emergency stop button, anti vibration feet etc.

+ Output capacity quoted to ISO1217

Specification subject to change without notice.