

rotary screw air compressor  
30kW to 55kW



# Avelair

compressed air solutions

## Efficiency you can Trust

### Intelligent design

- Modular design to suit your requirements – base mounted, receiver mounted or full plug and play with receiver, refrigerant dryer and filtration
- High performance **NK EVO|TECHNOLOGY** encapsulated air ends use the latest in smooth rolling technology offering high air output to energy input
- Premium efficiency motors ensure reduced electrical running costs and longer service life
- User friendly electronic control system offers easy compatibility with a compressor management controller for complete system control where multiple compressors are installed
- Ease of maintenance offers reduced service costs
- Compact and low noise operation
- Solid metal or metal overbraided pipes ensuring no expensive hose replacements or leaks
- Pre intake filter panel ensures clean internal environment

### ✓ Optimum efficiency

Using the latest in built **NK EVO|TECHNOLOGY** and high efficiency motors ensure optimum air output to energy input, reducing electrical running cost and lowering your carbon footprint

**Inverter driven VSD** and **Energy-Saver** valve options offer potential further efficiency savings

### ✓ 8 year warranty

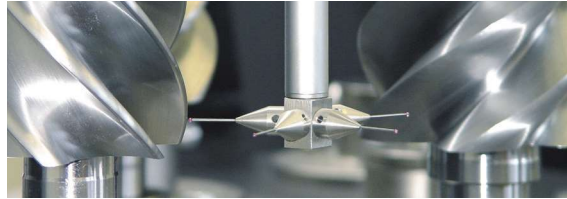
Our confidence in our compressors is reflected in our 8 year air end and 5 year major parts warranty

### ✓ Made in Britain

Best of all, we design and manufacture the compressors here in the UK, which means quality workmanship and total technical backup

# rotary screw air compressor

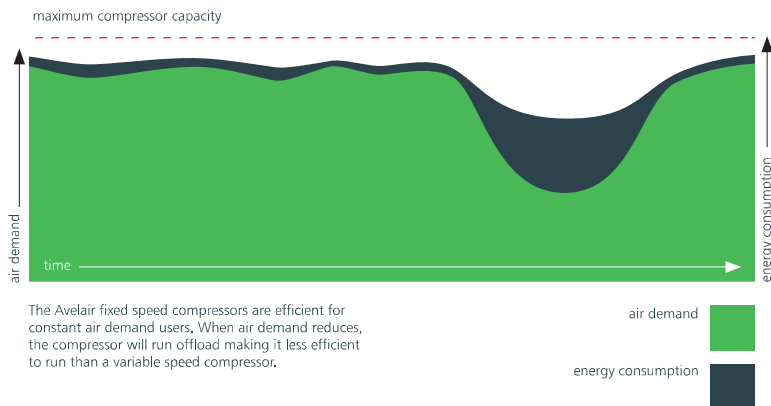
## 30kW to 55kW



### eVO range

A fixed speed compressor will run "on load" (compressing air at full motor power) or "off load" (not compressing air at a reduced motor power). The high efficiency motor and evo airend offers high air output to energy input for a fixed speed rotary screw air compressor.

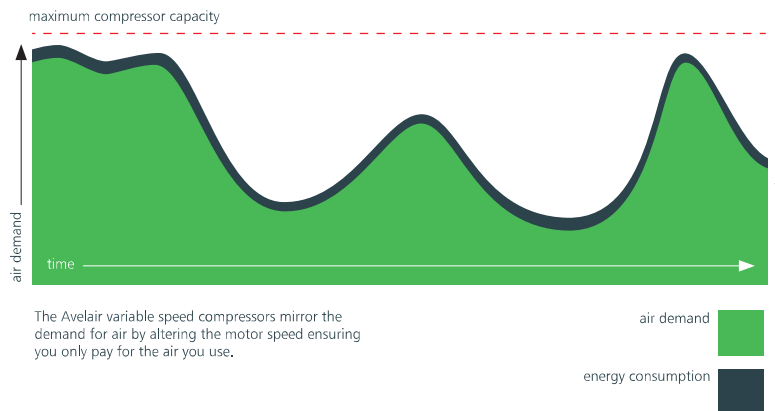
- Perfect for applications where compressed air demand is fairly constant
- Use as a base load compressor to work alongside a variable speed compressor
- Cost effective solution



### VSD range

Our variable speed compressors incorporate a high efficiency inverter drive. This offers soft starting which reduces start up current peaks and accurately maintains system pressure by 0.2 bar. The inverter smoothly alters the motor speed in response to air demand. In the correct applications, this offers minimal "off load" running and hence reduced electrical running costs year on year. In many cases this can reduce energy costs by over 35% with paybacks from around 12 – 18 months.

- Perfect for applications where there is a variable compressed air demand
- Soft start ensures reduced wear on the drive train and reduced start up running costs
- Highly efficient solution reducing electrical running costs year on year and reducing your carbon footprint



## Consider installing an Avelair Energy-Saver Valve on your receiver

The Energy-Saver valve is an automatic valve which opens and closes on a programmed timer offering digital automation to your compressed air system.

### A cost effective solution.

- ✓ Ensures the system does not run and maintains pressure in the air receiver when production is not required.
- ✓ Reduces electrical running cost and carbon footprint
- ✓ Reduces wear and tear
- ✓ Reduces servicing intervals and associated costs

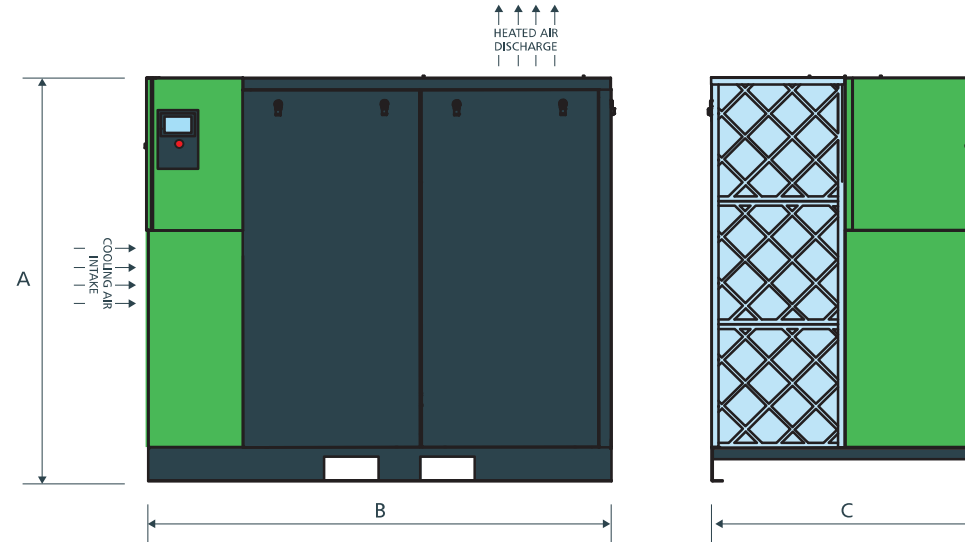


# rotary screw air compressor

## 30kW to 55kW

**MADE IN  
BRITAIN**

**8 YEAR PERFORMANCE<sup>+</sup>**  
PEACE OF MIND WARRANTY



Model	A Height** (mm)	B Length** (mm)	C Width** (mm)	Weight (kg)	Outlet connection size
<b>evo 30x</b>	1,720	1,950	1,127	800	1 1/4" BSPP male
<b>VSD 30x</b>	1,720	1,950	1,127	810	1 1/4" BSPP male
<b>evo 37x</b>	1,720	1,950	1,127	805	1 1/4" BSPP male
<b>VSD 37x</b>	1,720	1,950	1,127	820	1 1/4" BSPP male
<b>evo 45</b>	1,720	1,950	1,127	840	1 1/4" BSPP male
<b>VSD 45</b>	1,720	1,950	1,127	850	1 1/4" BSPP male
<b>evo 55</b>	1,720	1,950	1,127	860	1 1/4" BSPP male
<b>VSD 55</b>	1,720	1,950	1,127	870	1 1/4" BSPP male

# rotary screw air compressor

## 30kW to 55kW



**8 YEAR PERFORMANCE<sup>+</sup>**  
PEACE OF MIND WARRANTY

Model	Motor	Type (speed)	Capacity 8 bar <sup>+</sup>	Capacity 10 bar <sup>+</sup>	Capacity 13 bar <sup>+</sup>	Capacity 15 bar <sup>+</sup>	External isolator current rating (Ie)	SWA incoming cable size 30°C	Circuit breaker rating (Amps)	Circuit breaker setting (Amps)	Circuit breaker type	Fuse rating	Fuse class	Fuse type	Starter	Cooling air required <sup>***</sup>
<b>evo 30x</b>	30 kW	Fixed	181cfm 307m <sup>3</sup> /hr	165cfm 280m <sup>3</sup> /hr	136cfm 231m <sup>3</sup> /hr	126cfm 214m <sup>3</sup> /hr	100A	16mm	100A	80A	MCCB <sup>*</sup>	80A	aM	HRC	Star Delta	6,500 m <sup>3</sup> /hr
<b>VSD 30x</b>	30 kW	Variable	181cfm 307m <sup>3</sup> /hr	162cfm 275m <sup>3</sup> /hr	139cfm 236m <sup>3</sup> /hr	-	100A	25mm	100A	80A	MCCB <sup>*</sup>	100A	gG	HRC	Inverter start	6,500 m <sup>3</sup> /hr
<b>evo 37x</b>	37 kW	Fixed	222cfm 377m <sup>3</sup> /hr	197cfm 335m <sup>3</sup> /hr	173cfm 294m <sup>3</sup> /hr	151cfm 257m <sup>3</sup> /hr	100A	16mm	100A	80A	MCCB <sup>*</sup>	80A	aM	HRC	Star Delta	6,500 m <sup>3</sup> /hr
<b>VSD 37x</b>	37 kW	Variable	216cfm 371m <sup>3</sup> /hr	195cfm 331m <sup>3</sup> /hr	169cfm 287m <sup>3</sup> /hr	165cfm 280m <sup>3</sup> /hr	125A	35mm	125A	100A	MCCB <sup>*</sup>	100A	gG	HRC	Inverter start	6,500 m <sup>3</sup> /hr
<b>evo 45</b>	45 kW	Fixed	263cfm 447m <sup>3</sup> /hr	235cfm 399m <sup>3</sup> /hr	213cfm 362m <sup>3</sup> /hr	188cfm 319m <sup>3</sup> /hr	100A	25mm	125A	100A	MCCB <sup>*</sup>	100A	aM	HRC	Star Delta	10,000 m <sup>3</sup> /hr
<b>VSD 45</b>	45 kW	Variable	263cfm 447m <sup>3</sup> /hr	240cfm 408m <sup>3</sup> /hr	210cfm 357m <sup>3</sup> /hr	200cfm 340m <sup>3</sup> /hr	160A	35mm	125A	120A	MCCB <sup>*</sup>	125A	gG	HRC	Inverter start	10,000 m <sup>3</sup> /hr
<b>evo 55</b>	55 kW	Fixed	327cfm 556m <sup>3</sup> /hr	288cfm 490m <sup>3</sup> /hr	245cfm 416m <sup>3</sup> /hr	-	125A	35mm	160A	125A	MCCB <sup>*</sup>	125A	aM	HRC	Star Delta	10,000 m <sup>3</sup> /hr
<b>VSD 55</b>	55 kW	Variable	327cfm 556m <sup>3</sup> /hr	288cfm 490m <sup>3</sup> /hr	243cfm 416m <sup>3</sup> /hr	-	200A	50mm	160A	150A	MCCB <sup>*</sup>	160A	gG	HRC	Inverter start	10,000 m <sup>3</sup> /hr

### Notes:

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.

Local machine isolator to be supplied by others.

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.

Dimensions and weight vary depending on special requirements.

### Appendix:

- \* Device type, general purpose for line protection. Combined thermal / magnetic device.
- \*\* Measurements do not include such items as emergency stop button, anti vibration feet etc.
- \*\*\* Compressor is designed for continuous use from 1°C (Integra from 3°C) up to 35°C and with intermittent temperature increase to 40°C. 40°C constant use will require additional design features - please contact Avelair to discuss.
- + The capacity of the compressor is quoted to ISO1217 and based upon the point of maximum motor demand. evo fixed speed compressor – at the maximum machine pressure (off load setting). VSD compressor – at the speed and pressure just prior to the unit slowing, (generally 1 bar below the maximum operating pressure).

The Avelair range of rotary screw air compressors are built in compliance with UKCA / CE Machinery Directive requirements. Specification subject to change without notice.

Noise level at 1 metre: 76-79 dB(A) +/- 5%, subject to installation