

rotary screw air compressor  
2.2kW to 7.5kW



# 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

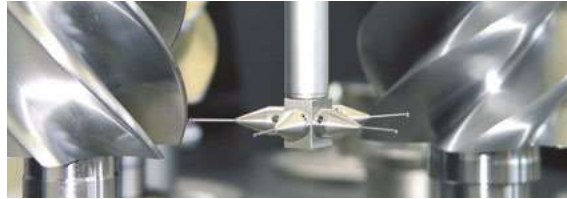
Our confidence in our compressors is reflected in our 8 year airend and 5 year major parts warranty

### ✓ 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

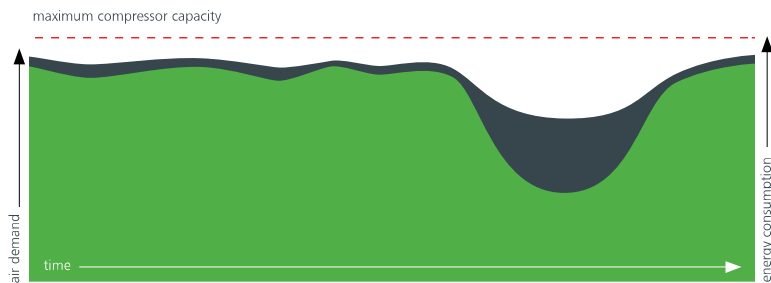
## 2.2kW to 7.5kW



### eVO range

Our eVO fixed speed compressors use a direct on line starter up to 5.5kW and star delta starter above 5.5kW motor size. 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



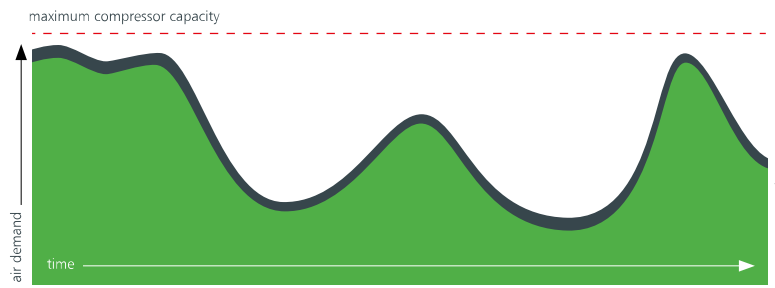
The Avelair fixed speed compressors are efficient for constant air demand users. When air demand reduces, the compressor will run offload making it less efficient to run than a variable speed compressor.

air demand  
energy consumption

### 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



The Avelair variable speed compressors mirror the demand for air by altering the motor speed ensuring you only pay for the air you use.

air demand  
energy consumption

## 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



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## 2.2kW to 7.5kW



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

Avelair's intelligent design offers 3 options for the fixed speed (evo) or variable speed (VSD) compressors:

### Option 1: EVO / VSD

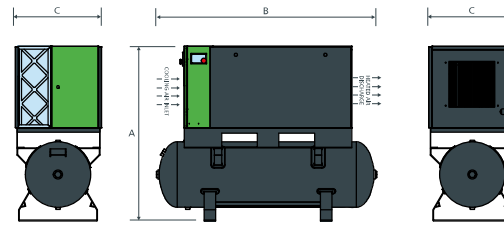
base mounted air compressor



Model	A Height** (mm)	B Length** (mm)	C Width** (mm)	Weight (kg)	Outlet connection size
<b>evo 2.2</b>	710	1,170	610	240	1/2" BSPP male
<b>evo 2.2</b>	710	1,170	610	240	1/2" BSPP male
<b>evo 3.7</b>	710	1,170	610	240	1/2" BSPP male
<b>evo 4</b>	710	1,170	610	240	1/2" BSPP male
<b>evo 5.5</b>	710	1,170	610	240	1/2" BSPP male
<b>evo 7.5</b>	710	1,170	610	240	1/2" BSPP male
<b>VSD 7.5</b>	710	1,170	610	240	1/2" BSPP male

### Option 2: EVO-r / VSD-r

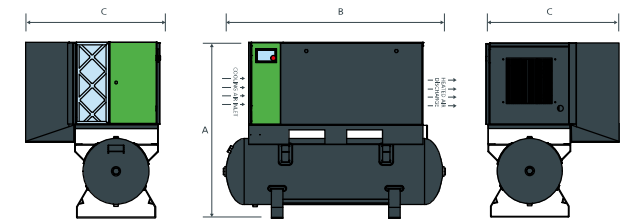
250L receiver mounted air compressor



Model	A Height** (mm)	B Length** (mm)	C Width** (mm)	Weight (kg)	Outlet connection size
<b>evo-r 2.2</b>	1,220	1,600	610	300	1/2" BSPT female
<b>evo-r 2.2</b>	1,220	1,600	610	300	1/2" BSPT female
<b>evo-r 3.7</b>	1,220	1,600	610	300	1/2" BSPT female
<b>evo-r 4</b>	1,220	1,600	610	300	1/2" BSPT female
<b>evo-r 5.5</b>	1,220	1,600	610	300	1/2" BSPT female
<b>evo-r 7.5</b>	1,220	1,600	610	300	1/2" BSPT female
<b>VSD-r 7.5</b>	1,220	1,600	610	300	1/2" BSPT female

### Option 3: EVO Integra / VSD Integra

250L receiver mounted with built on condensate drain, refrigerant dryer and filtration offering oil free (residual oil content of 0.03mg/m<sup>3</sup>) and dry (3-5°C dewpoint based on 20°C ambient temp)



Model	A Height** (mm)	B Length** (mm)	C Width** (mm)	Weight (kg)	Outlet connection size
<b>evo 2.2 integra</b>	1,220	1,600	932	350	1/2" BSPT female
<b>evo 2.2 integra</b>	1,220	1,600	932	350	1/2" BSPT female
<b>evo 3.7 integra</b>	1,220	1,600	932	350	1/2" BSPT female
<b>evo 4 integra</b>	1,220	1,600	932	350	1/2" BSPT female
<b>evo 5.5 integra</b>	1,220	1,600	932	350	1/2" BSPT female
<b>evo 7.5 integra</b>	1,220	1,600	932	350	1/2" BSPT female
<b>VSD 7.5 integra</b>	1,220	1,600	932	350	1/2" BSPT female

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## 2.2kW to 7.5kW



**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
<b>SINGLE PHASE</b>																
<b>evo 2.2</b> includes -r and integra	Single phase 2.2 kW	Fixed	15cfm 26m <sup>3</sup> /hr	-	-	-	20A	4mm	20A	20A	D-Type	20A	aM	HRC	Direct on line	2,500 m <sup>3</sup> /hr
<b>evo 3.7</b> includes -r and integra	Single phase 3.7 kW	Fixed	21cfm 36m <sup>3</sup> /hr	19cfm 32m <sup>3</sup> /hr	-	-	32A	4mm	32A	32A	D-Type	32A	aM	HRC	Direct on line	2,500 m <sup>3</sup> /hr
<b>3 PHASE</b>																
<b>evo 2.2</b> includes -r and integra	2.2 kW	Fixed	15cfm 26m <sup>3</sup> /hr	-	-	-	20A	2.5mm	10A	10A	D-Type	10A	aM	HRC	Direct on line	2,500 m <sup>3</sup> /hr
<b>evo 4</b> includes -r and integra	4 kW	Fixed	24cfm 40m <sup>3</sup> /hr	23cfm 38m <sup>3</sup> /hr	-	-	20A	2.5mm	16A	16A	D-Type	16A	aM	HRC	Direct on line	2,500 m <sup>3</sup> /hr
<b>evo 5.5</b> includes -r and integra	5.5 kW	Fixed	36cfm 61m <sup>3</sup> /hr	31cfm 53m <sup>3</sup> /hr	24cfm 41m <sup>3</sup> /hr	-	20A	2.5mm	20A	20A	D-Type	20A	aM	HRC	Direct on line	2,500 m <sup>3</sup> /hr
<b>evo 7.5</b> includes -r and integra	7.5 kW	Fixed	41cfm 70m <sup>3</sup> /hr	37cfm 63m <sup>3</sup> /hr	31cfm 53m <sup>3</sup> /hr	28cfm 48m <sup>3</sup> /hr	32A	2.5mm	25A	25A	D-Type	25A	aM	HRC	Star Delta	2,500 m <sup>3</sup> /hr
<b>VSD 7.5</b> includes -r and integra	7.5 kW	Variable	38cfm 65m <sup>3</sup> /hr	36cfm 61m <sup>3</sup> /hr	29cfm 49m <sup>3</sup> /hr	26cfm 44m <sup>3</sup> /hr	32A	4mm	32A	30A	MCCB*	32A	gG	HRC	Inverter start	2,500 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.

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.

**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.

### 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).
- ^ Maximum working pressure of receiver mounted / Integra models is 10.5 bar on load / 11.5 bar off load.

The Avelair range of rotary screw air compressors are built in compliance with UKCA / CE Machinery Directive requirements. Local machine isolator to be supplied by others. Specification subject to change without notice.

Noise level at 1 metre: 76-80 dB(A) +/- 5%, subject to installation.