

rotary screw air compressor
15kW to 37kW



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
- Flexible hot air discharge (15-22kW) offers complete flexibility for installation and heat recovery
- 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

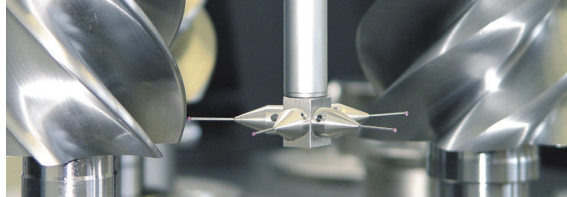
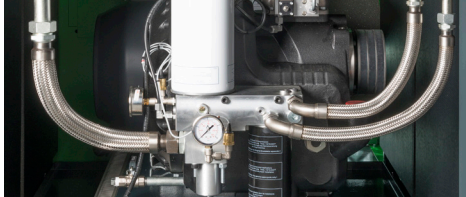
Our confidence in our compressors is reflected in our 8 year airend and 5 year major parts warranty

✓ Made in Britain

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

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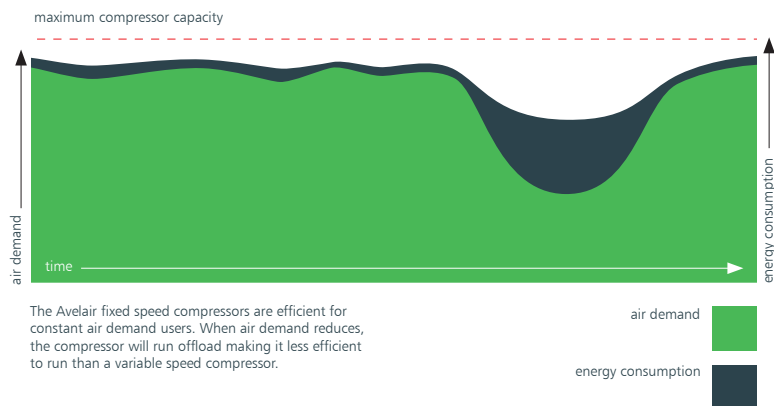
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eVO range

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.

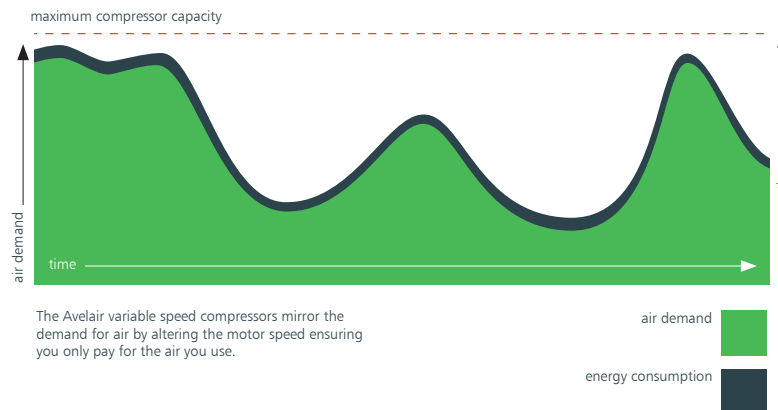
- Perfect for applications where compressed air demand is fairly constant
- Use as a base load compressor to work alongside a variable speed compressor
- Cost effective solution



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



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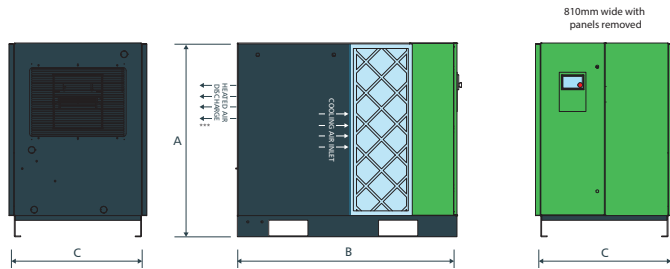


8 YEAR **PERFORMANCE⁺**
PEACE OF MIND WARRANTY

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

Option 1: EVO / VSD

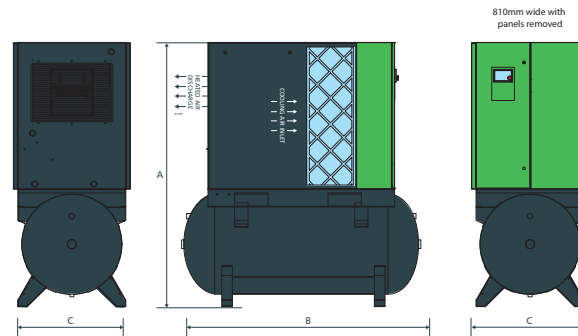
base mounted air compressor



Model	A Height** (mm)	B Length** (mm)	C Width** (mm)	Weight (kg)	Outlet connection size
evo 15x	1,235	1,400	878	640	3/4" BSPP male
VSD 15x	1,235	1,400	878	660	3/4" BSPP male
evo 18.5	1,235	1,400	878	650	3/4" BSPP male
VSD 18.5	1,235	1,400	878	670	3/4" BSPP male
evo 22	1,235	1,400	878	655	3/4" BSPP male
VSD 22	1,235	1,400	878	675	3/4" BSPP male
evo 30	1,235	1,400	878	720	3/4" BSPP male
VSD 30	1,235	1,400	878	740	3/4" BSPP male
evo 37	1,235	1,400	878	750	3/4" BSPP male

Option 2: EVO-r / VSD-r

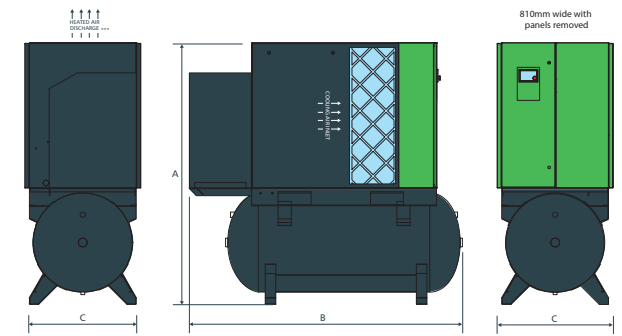
660L receiver mounted air compressor



Model	A Height** (mm)	B Length** (mm)	C Width** (mm)	Weight (kg)	Outlet connection size
evo-r 15x	1,950	1,785	878	800	3/4" BSPT female
VSD-r 15x	1,950	1,785	878	820	3/4" BSPT female
evo-r 18.5	1,950	1,785	878	810	3/4" BSPT female
VSD-r 18.5	1,950	1,785	878	830	3/4" BSPT female
evo-r 22	1,950	1,785	878	815	3/4" BSPT female
VSD-r 22	1,950	1,785	878	835	3/4" BSPT female
evo-r 30	1,950	1,785	878	860	3/4" BSPT female
VSD-r 30	1,950	1,785	878	880	3/4" BSPT female
evo-r 37	1,950	1,785	878	890	3/4" BSPT female

Option 3: EVO Integra / VSD Integra

660L receiver mounted with built on condensate drain, refrigerant dryer and filtration offering oil free (residual oil content of 0.03mg/m³) 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
evo 15x integra	1,950	2,010	878	870	3/4" BSPT female
VSD 15x integra	1,950	2,010	878	890	3/4" BSPT female
evo 18.5 integra	1,950	2,069	878	880	3/4" BSPT female
VSD 18.5 integra	1,950	2,069	878	900	3/4" BSPT female
evo 22 integra	1,950	2,069	878	880	3/4" BSPT female
VSD 22 integra	1,950	2,069	878	900	3/4" BSPT female

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8 YEAR PERFORMANCE⁺
PEACE OF MIND WARRANTY

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Model	Motor	Type (speed)	Capacity 8 bar ⁺	Capacity 10 bar ⁺	Capacity 13 bar ⁺	Capacity 15 bar ⁺	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 ^{***}
evo 15x includes -r and integra	15 kW	Fixed	88cfm 150m ³ /hr	80cfm 136m ³ /hr	68cfm 116m ³ /hr	46cfm 78m ³ /hr	63A	6mm	40A	40A	D-Type	40A	aM	HRC	Star Delta	5,500 m ³ /hr
VSD 15x includes -r and integra	15 kW	Variable	88cfm 150m ³ /hr	80cfm 136m ³ /hr	68cfm 116m ³ /hr	46cfm 78m ³ /hr	63A	6mm	50A	45A	MCCB*	50A	gG	HRC	Inverter start	5,500 m ³ /hr
evo 18.5 includes -r and integra	18.5 kW	Fixed	108cfm 183m ³ /hr	94cfm 160m ³ /hr	81cfm 138m ³ /hr	62cfm 105m ³ /hr	63A	6mm	50A	50A	D-Type	50A	aM	HRC	Star Delta	5,500 m ³ /hr
VSD 18.5 includes -r and integra	18.5 kW	Variable	108cfm 183m ³ /hr	94cfm 160m ³ /hr	81cfm 138m ³ /hr	62cfm 105m ³ /hr	63A	10mm	63A	55A	MCCB*	63A	gG	HRC	Inverter start	5,500 m ³ /hr
evo 22 includes -r and integra	22 kW	Fixed	120cfm 204m ³ /hr	106cfm 180m ³ /hr	95cfm 161m ³ /hr	73cfm 124m ³ /hr	63A	10mm	50A	50A	D-Type	50A	aM	HRC	Star Delta	5,500 m ³ /hr
VSD 22 includes -r and integra	22 kW	Variable	120cfm 204m ³ /hr	106cfm 180m ³ /hr	95cfm 161m ³ /hr	73cfm 124m ³ /hr	100A	16 mm	80A	65A	MCCB*	80A	gG	HRC	Inverter start	5,500 m ³ /hr
evo 30 includes -r	30 kW	Fixed	154cfm 262m ³ /hr	143cfm 243m ³ /hr	119cfm 202m ³ /hr	110cfm 187m ³ /hr	100A	16mm	100A	80A	MCCB*	80A	aM	HRC	Star Delta	5,500 m ³ /hr
VSD 30 includes -r	30 kW	Variable	164cfm 278m ³ /hr	147cfm 250m ³ /hr	128cfm 217m ³ /hr	115cfm 195m ³ /hr	100A	25mm	90A	80A	MCCB*	100A	gG	HRC	Inverter start	5,500 m ³ /hr
evo 37 includes -r	37 kW	Fixed	173cfm 294m ³ /hr	153cfm 260m ³ /hr	133cfm 226m ³ /hr	125cfm 212m ³ /hr	125A	35mm	125A	100A	MCCB*	100A	aM	HRC	Star Delta	5,500 m ³ /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).

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: 75-78 dB(A) +/- 5%, subject to installation