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# AIRGAIN®

AIRGAIN COMPRESSOR

CHOOSE AIRGAIN, CHOOSE QUALITY

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German Technology

## ROTARY SCREW AIR COMPRESSOR

High Quality Air >> Low Noise Efficiency >> Elegant

Capacity: 7.5-90 KW



# SCREW AIR COMPRESSOR (Direct Type)



Airgain screw air compressors provide high-quality air you can rely on to avoid costly downtime and production delays. The robust design ensures continuous operation even in the harshest conditions, such as temperatures up to 55 °C. Furthermore, Airgain air compressors are easy to install and use, requiring minimal on-site installation work and offering simple operation and maintenance.

## Technical Specification for Direct Driven Type Compressor

Model	Pressure Bar	Airflow PSI	CFM Range	Moto Power KW	Air Outlet Inch	Dimension MM	Weight Kgs
AGD - 10A	8	116	38	7.5	1/2	950 x 650 x 880	220
	10	145	31				
AGD - 15A	8	116	60	11	3/4	1070 x 670 x 930	297
	10	145	52				
AGD - 20A	8	116	90	15	3/4	1070 x 670 x 930	308
	10	145	78				
AGD - 25A	8	116	110	18.5	1	1200 x 820 x 1115	451
	10	145	94				
AGD - 30A	8	116	130	22	1	1200 x 820 x 1115	451
	10	145	110				
AGD - 40A	8	116	180	30	1	1340 x 850 x 1145	610
	10	145	160				
AGD - 50A	8	116	225	37	1 1/2	1450 x 900 x 1185	671
	10	145	205				
AGD - 60A	8	116	265	45	1 1/2	1450 x 900 x 1185	748
	10	145	245				
AGD - 75A	8	116	360	55	2	1800 x 1160 x 1490	979
	10	145	325				
AGD - 100A	8	116	490	75	2	1800 x 1160 x 1490	1012
	10	145	440				

# INTEPARARMETER TABLE OF VSD



Airgain Inteparameter Table of VSD screw air compressors provide high-quality air you can rely on to avoid costly downtime and production delays. The robust design ensures continuous operation even in the harshest conditions, such as temperatures up to 55°C. Furthermore, These compressors are easy to install & use, requiring minimal on-site installation work and offering simple operation and maintenance.

## Technical Specification for Inteparameter Table of VSD

Model	Pressure Bar	Airflow PSI	CFM Range	Moto Power KW	Air Outlet Inch	Dimension MM	Weight Kgs
AGV - 10A	8	116	10-38	7.5	1/2	1060x600x950	270
AGV - 15A	8	116	17-60	11	3/4	1060x600x950	315
AGV - 20A	8	116	28-84	15	1	1420x850x1135	550
AGV - 25A	8	116	35-127	18.5	1	1410x850x1135	570
AGV - 30A	8	116	44-130	22	1	1410x850x1135	590
AGV - 40A	8	116	53-180	30	1	1340x850x1145	540
AGV - 50A	8	116	63-218	37	1 1/2	1530x930x1255	780
AGV - 75A	8	116	105-353	55	1 1/2	1800x1125x1430	1250
AGV - 100A	8	116	137-459	75	2	2000x1300x1600	1550
AGV - 60A	8	116	84-260	45	1 1/2	1530x930x255	820

# VARIABLE SPEED DRIVE SCREW AIR COMPRESSOR



With the Airgain Variable Speed Drive screw air compressor, you don't have to worry about the complexity of electrical installation and programming. All parts of the compressor are assembled before shipment, and as long as the main power supply is connected, it can start working immediately. The powerful intelligent controller continuously monitors changes in the air system pressure and accurately adjusts the speed and airflow, ensuring the air compressor always meets the system's demands. The intelligent controller's reaction rate is calculated in milliseconds, with speed corrections made within 3 ms, keeping the outlet air pressure within the minimum range.

## Six More Advantages

### ■ Intel drive features

High-efficiency induction motor, integrated Variable Speed Drive (VSD) with speed control, advanced control and protection, and soft starting that eliminates drive stress.

### ■ Economy of use

Save money by lowering your operating costs. These savings will continue to benefit your bottom line year after year.

### ■ High full-load operating efficiency

Class-leading performance is achieved through state-of-the-art air-end design and manufacturing processes, coupled with the reduction of internal losses, ensuring optimal air-end full load performance.

### ■ Best benefit at part-Load

When operating at part-load, the performance is best in class. The variable speed IntelliDrive eliminates load cycling and maintains a steady state of operation, reducing both operating and maintenance costs.

### ■ Soft start lowers your operating cost

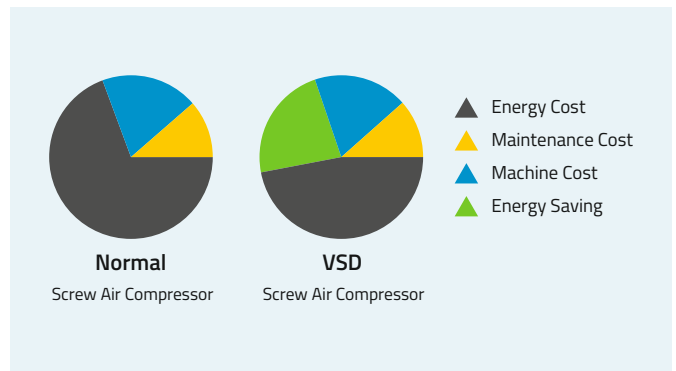
The gentle start cycle of the IntelliDrive increases service life, allowing frequent stop and restart cycles without the risk of overheating.

### ■ Multiple machine operation

When operating as a pressure trim machine, the power savings achieved by a single compressor are multiplied by additional savings across the entire installation.

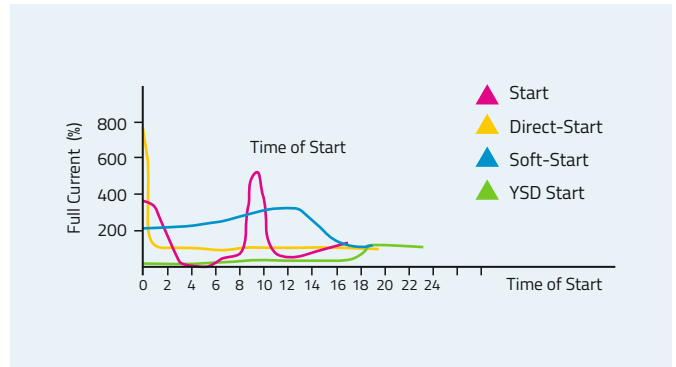
## Cost

The Airgain VSD screw air compressor precisely adjusts the motor RPM according to air consumption while maintaining stable discharge pressure. The compressor only delivers the required air, consuming energy only for the necessary compressed air. This is why the VSD screw air compressor can save energy throughout the entire machine operation. The energy savings far outweigh the cost of the machine itself.



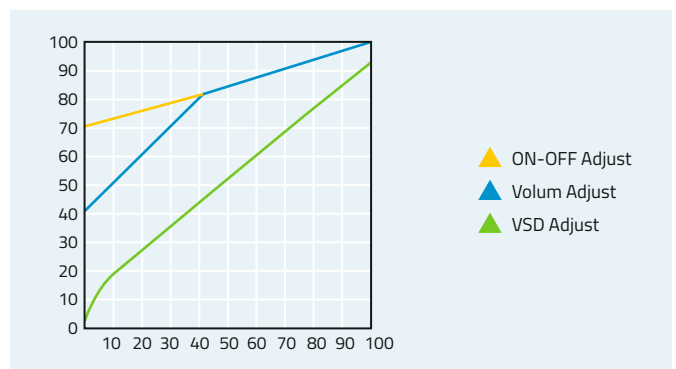
## Start and Operation

The figure compares several types of startup methods. It shows that the VSD air compressor accelerates slowly and more stably than the soft-start compressor, completely avoiding current peaks. The variable speed screw air compressor is especially ideal for areas with limited electricity.



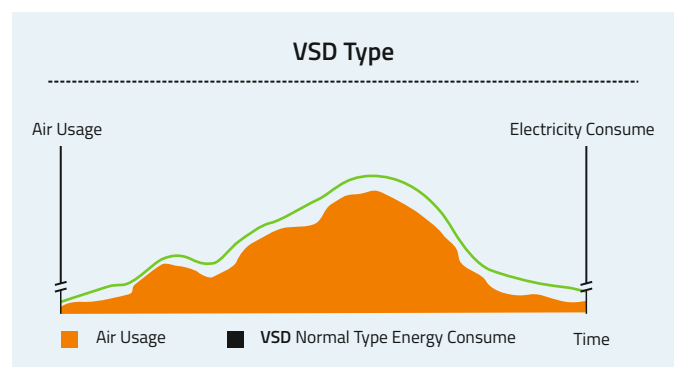
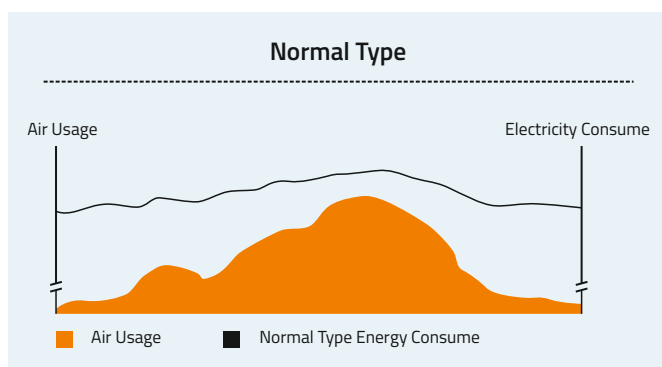
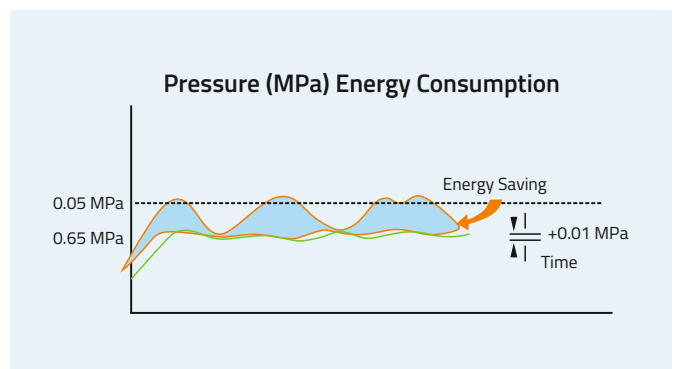
## Electricity saving results

According to research comparing VSD screw air compressors with standard screw air compressors, two key areas highlight the energy savings: no-load losses and fluctuating pressure losses. For example, a 55KW screw air compressor delivering 70% of air capacity over a year, the VSD type can save about 80,000 KWh of energy. The cost of the VSD system can be recovered within two years.



## Constant pressure air supply with balanced production

The figure shows the energy consumption comparison between a standard air compressor and a VSD air compressor. The VSD screw air compressor adjusts its rotational speed according to air consumption, balancing air supply with demand. This avoids frequent loading and unloading of the machine, saving more than 35% energy compared to a standard compressor. The stable pressure delivery is controlled within a pressure zone of 0.01-0.02 MPa, preventing energy loss caused by high pressure in standard air compressors.





# INTEGRATED TYPE SCREW AIR COMPRESSOR



## How can a compressed air system help increase profitability?

The answer is simple: by ensuring you achieve the highest productivity in your shop while reducing the total cost of ownership to the lowest levels possible.

### ■ Ultimate Reliability

AIRGAIN is so confident in the performance of its compressors that we offer a range of extended warranty packages, designed to provide you with maximum operational security. Smart integration eliminates leaks and pressure drops, ensuring maximum reliability.

### ■ Ultimate Efficiency

Our system delivers more air with less horsepower, saving thousands of dollars per year on energy. It eliminates wasteful unloaded running by cycling the compressor on and off.

### ■ Ultimate Flexibility

With a simplified, easy-to-maintain structure and long-lasting components, our system offers trouble-free operation. The compact design minimizes the space required for installation.

### ■ A revolutionary advancement

Going beyond simply combining the compressor, dryer, and filters into one package, smart integration also eliminates vulnerable interconnecting piping, minimizes pressure losses and drops, and integrates the compressor, dryer, and filter into an optimized, energy-efficient system. It combines the entire supply-side system into one whisper-quiet package, allowing for installation in virtually any location. Additionally, it provides ample space for cooling and unobstructed service access.

### ■ Dry and clean compressed air

All Total Air System packages are fully equipped with an integral, energy-saving air treatment center, which includes a high-performance air dryer and filtration pack designed to remove water, oil, and particles from the air stream. Every component is carefully matched to ensure optimal air quality, thereby extending the lifespan of air-powered tools and equipment.

### ■ High-efficiency components

Setting the standard in system design, the Total Air System incorporates only the highest quality components to maximize both system efficiency and productivity. It provides a high-efficiency compressor room without the hassle, complexity, and costs associated with traditional compressor rooms. Total Air System packages come fully equipped with: a high-efficiency rotary screw air compressor, an energy-saving cycling refrigerated air dryer, a high-efficiency coalescing filter, a high-efficiency particulate filter, an integral air receiver storage tank, integrated compressor and dryer controls, and low-pressure drop piping.

### ■ Benefits are virtually endless

With plug-and-play simplicity, the system eliminates the leading causes of failure in air systems, such as incorrect sizing and installation. It incurs virtually no installation costs, reducing 80% of installation time, materials, and expenses. The integral packaging saves valuable floor space for other uses. You'll also experience lifetime power savings through highly efficient components, increased productivity due to improved air quality, and the elimination of water and corrosion, which extends the life of your equipment.

# TANK & DRYER MOUNTED SCREW AIR COMPRESSOR

(2-IN-1 TYPE & 3-in-1 TYPE)



## Technical Specification for Tank & Dryer Mounted Screw Compressor (2-in-1 Type)

Model	Moto Power		Free Air Delivery	Free Air Delivery	Discharge Pressure	Tank Volume	Electricity	Dimension	Weight
	KW	HP	M3/Min	CFM	MPA	L	V / Ph / Hz	(mm)	Kgs.
<b>AHB-7A</b>	5.5	7.5	0.75	27	0.8	300	430 / 3 / 50	1600x600x1300	370
<b>AHB-10A</b>	7.5	10	1.1	39	0.8	300	430 / 3 / 50	1600x730x1550	380
<b>AHB-15A</b>	11	15	1.5	53	0.8	300	430 / 3 / 50	1600x800x1670	420
<b>AHB-20A</b>	15	20	2.3	81	0.8	500	430 / 3 / 50	1650x800x1780	490

## Tank & Dryer Mounted Screw Compressor (3-in-1 Type)

Model	Moto Power		Free Air Delivery	Free Air Delivery	Discharge Pressure	Tank Volume	Electricity	Dimension	Weight
	KW	HP	M3/Min	CFM	MPA	L	V / Ph / Hz	(mm)	Kgs.
<b>AHB-7A</b>	5.5	7.5	0.75	27	0.8	300	430 / 3 / 50	1900x700x1300	410
<b>AHB-10A</b>	7.5	10	1.1	39	0.8	300	430 / 3 / 50	1900x730x1520	425
<b>AHB-15A</b>	11	15	1.5	53	0.8	300	430 / 3 / 50	1900x700x1630	475
<b>AHB-20A</b>	15	20	2.3	81	0.8	500	430 / 3 / 50	2000x800x1800	540

# SUPER EFFICIENT TWO-STAGE SCREW AIR COMPRESSOR

CAPACITY: 22-315 KW

**AIRGAIN®**  
— AIRGAIN COMPRESSOR —  
CHOOSE AIRGAIN, CHOOSE QUALITY





## Advantages of Super Efficient Two-Stage Screw Air Compressor

- Low Internal Compression Ratio. Volumetric Efficiency Of 2 Stage Screw Air Compressor Is 98% While That Of Single Stage Is 90%.
- Low Rpm (1500rpm) Motor Is Used.
- Air Output Is 15% Higher Compared To Single Stage Screw Air Compressor.
- Energy Saving Upto 15%.
- Seamless Fitting For All Internal Piping No Hose Pipes Are Used Leading To Low Failure Of Hoses.
- Also Available With Pm Motor VFD PM Motor Efficiency Level When Used With VFD is Upto 96-97% Which Outperforms I.E.4. Motor Efficiency.
- Compact Small In Size Pm Motor Has No Bearing Which Means No Wearing Parts, No Maintenance On Motor Side. No Gears & Belts Leading To Transmission Efficiency of 100%.

## Technical Specification for Super Efficient Two-Stage Screw Air Compressor

Model	Moto Power		Working Pressure	Free Air Delivery	Transmission Type	Sound Level	Electricity	Dimension (LxWxH)	Weight
	KW	HP							
			Bar	CFM	---	DB	V / Ph / Hz	(cms)	Kgs.
<b>AETS-22</b>	22	30	6-8-10	135	Gear Driven	72	430 / 3 / 50	124x76x130	370
<b>AETS-30</b>	30	40	6-8-10	216	Gear Driven	72	430 / 3 / 50	145x89x147	380
<b>AETS-37</b>	37	50	6-8-10	262	Gear Driven	73	430 / 3 / 50	145x89x147	420
<b>AETS-45</b>	45	60	6-8-10	305	Gear Driven	74	430 / 3 / 50	200x119x165	490
<b>AETS-55</b>	55	75	6-8-10	373	Gear Driven	75	430 / 3 / 50	200x119x165	490
<b>AETS-75</b>	75	100	6-8-10	519	Gear Driven	75	430 / 3 / 50	200x119x165	500
<b>AETS-90</b>	90	120	6-8-10	620	Gear Driven	76	430 / 3 / 50	200x119x165	550
<b>AETS-110</b>	110	150	6-8-10	770	Gear Driven	76	430 / 3 / 50	285x180x190	600
<b>AETS-132</b>	132	180	6-8-10	905	Gear Driven	76	430 / 3 / 50	344x200x230	650
<b>AETS-160</b>	160	215	6-8-10	1070	Gear Driven	77	430 / 3 / 50	344x200x230	700
<b>AETS-180</b>	180	250	6-8-10	1240	Gear Driven	77	430 / 3 / 50	372x225x233	750
<b>AETS-200</b>	200	270	6-8-10	1300	Gear Driven	78	430 / 3 / 50	372x225x233	800
<b>AETS-220</b>	220	300	6-8-10	1450	Gear Driven	78	430 / 3 / 50	372x225x233	850
<b>AETS-250</b>	250	335	6-8-10	1590	Gear Driven	80	430 / 3 / 50	505x238x275	900

All in One High Pressure

# SCREW AIR COMPRESSOR FOR LASER CUTTING TECHNOLOGY

Recent advancements in laser cutting technology have significantly increased the demand for higher air pressure in compressors. Over the past few years, the required pressure has risen from 8 bar to 16 bar, reflecting the growing need for precision and efficiency in the industry. Higher air pressure not only improves cutting quality but also enhances overall efficiency, contributing to the development of more advanced and reliable professional laser cutting machines. This evolution has made it essential for air compressors to meet these heightened pressure demands.

## Key Benefits:

- Capable of delivering outlet pressure up to 16 bar
- Dew point-controlled dry air for optimal performance
- High-efficiency coalescence filtration for superior air quality
- Activated carbon filter ensuring clean, oil-free air"

Model	Working Pressure	Power Kw	FAD Cfm
ALCC-15	16	11	34
ALCC-20	16	15	46
ALCC-25	16	18.5	62
ALCC-30	16	22	74
ALCC-35	7 to 13	7.5	43
ALCC-40	7 to 13	11	59
ALCC-45	7 to 13	15	69



## End-to-End Solutions for Laser Cutting Machine



# OUR HIGH QUALITY ACCESSORIES

## Air End (German Technology)

Famous brand air ends with SKF bearings, the powerful heart that determines the high performance of the entire machine. It ensures greater air capacity, higher efficiency, high-precision rotor processing, and extends the life of the moving parts efficiently.

## Electrical Board (Siemens/Schneider)

The main electrical components use world-famous brands like Schneider, Siemens, etc. The professional wiring design ensures strong functionality for fault diagnosis and automatic protection.

## Control Panel

(Chinese, English, Russian, Spanish Available)

The Airgain control panel provides the most cost-effective maintenance program, ensuring trouble-free operation, almost like having a built-in service technician.

## Cooling System

With a design featuring a large heat exchange area, it effectively prevents overheating and adapts to harsh working conditions, ensuring a longer lifespan.

## Electric Motor

Using a well-known brand high-performance motor with an IP54 protection class, F-class insulation, and SKF load bearings, it offers 3%-5% higher efficiency compared to similar products.

## Intake Valve

Automatically adjusts based on gas consumption, offering low maintenance, excellent stability, and a large inlet air capacity. This advanced feature ensures efficient operation, reduces energy consumption, and enhances the overall performance, making it a reliable choice for long-term, cost-effective operation in various industrial settings

## Genuine Spare Parts

We offer high-quality, genuine spare parts for compressors, ensuring optimal performance and longevity for your machinery at an affordable price.



# Use Airgain Genuine Spare Parts for Long Life of your Compressor



## Airgain Genuine Spare Parts

We offer high-quality, genuine spare parts for compressors, ensuring optimal performance and longevity for your machinery at an affordable price. Our parts are designed to meet industry standards, providing reliable and efficient solutions for all your compressor needs, helping to reduce downtime and improve productivity.

## Maintenance of Air Compressor

We provide selective maintenance services for customer's equipment maintenance. The content is customized for your equipment. You can choose a single price maintenance or choose long-term parts supply or preventive maintenance contract, through the above contract, you can enjoy valued service and guarantee and overhauled and updated parts at competitive price. We also provide energy saving solution, such as energy recovery, frequency conversion, and energy-saving optimization systems, can greatly reduce your production cost.



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