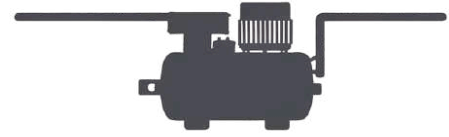


AIRGEN COMPRESSOR



AIRGEN COMPRESSOR

COMPRESSING AIR, AMPLIFYING EFFICIENCY



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COMPANY PROFILE

Founded in 2011 in Bangalore, AIRGEN COMPRESSOR began its journey as a trusted trader of high-quality air compressors. Driven by a passion for delivering reliable industrial solutions, we quickly gained recognition in the market.

By 2016, in response to growing demand and a commitment to innovation, we established our own manufacturing unit in Peenya 2nd Stage, Bangalore. This expansion allowed us to offer a diverse range of products, including screw compressors and piston compressors, tailored to meet the needs of various industries.

With a strong vision for quality and energy efficiency, we launched our proprietary brand, AIRGEN COMPRESSOR. Today, our manufacturing operations are focused on delivering cutting-edge, customer-centric solutions built with premium materials to ensure durability and performance.

CORE VALUES

- **Customer Focus:** Prioritize customer needs and deliver responsible business practices.
- **Quality & Service:** Provide quality products and superior service at fair prices.
- **Customer Relationships:** Build strong relationships and be the preferred choice.
- **Aftermarket Support:** Offer world-class aftermarket services, breakdown support, and training.
- **Work Environment:** Maintain a safe and healthy working environment.
- **Market Leadership:** Strive to be the market leader in compressed air solutions.

ENGINEERED FOR PERFORMANCE, TRUSTED FOR RELIABILITY

AIRGEN AGC Series Screw Compressors

Renowned for legendary reliability and performance, the AGC Series is built for demanding industrial applications. These compressors deliver maximum power efficiency through AIRGEN's exclusive high-performance airend, a premium-efficiency motor, centrifugal fan, and top-quality components.

An intelligent controller ensures peak performance by constantly monitoring key parameters and logging data for predictive maintenance. Compact yet powerful, the AGC Series offers quiet, continuous operation with low ownership costs, easy service, and minimal downtime. Enjoy steady airflow, stable pressure, and clean, high-quality air with minimal oil carryover.

SCREW COMPRESSOR

 MODEL NO	 KW	 HP	 PRESSURE	 CFM	 m3/min	 NOISE dBA	 WEIGHT kg	 DIMENSIONS L W H		
AGC-7.5DD	5.5	7.5	7	21	0.9	60 ± 2	215	780	600	1020
			10	27	0.69	60 ± 2				
AGC-10DD	7.5	10	7	42	1.1	65 ± 2	250	800	720	950
			10	35	1	65 ± 2				
AGC-15DD	11	15	7	68	1.9	70 ± 2	350	950	800	1160
			10	53	1.5	70 ± 2				
AGC-20DD	15	20	7	95	2.6	70 ± 2	400	950	800	1160
			10	74	2.1	70 ± 2				
AGC-25DD	18.5	25	7	118	3.3	70 ± 2	450	980	840	1180
			10	95	3.6	70 ± 2				
AGC-30DD	22	30	7	138	3.9	73 ± 2	600	1150	900	1380
			10	110	3.1	73 ± 2				
AGC-40DD	30	40	7	195	5.5	73 ± 2	650	1150	900	1380
			10	163	4.6	73 ± 2				
AGC-50DD	37	50	7	245	6.9	73 ± 2	890	1350	950	1420
			10	198	5.6	73 ± 2				
AGC-60DD	45	60	7	292	8.2	73 ± 2	1170	1350	950	1420
			10	247	7	73 ± 2				
AGC-75DD	55	75	7	380	10.7	73 ± 2	1200	1600	1170	1580
			10	318	9	73 ± 2				
AGC-100DD	75	100	7	510	14.4	73 ± 2	1350	1800	1250	1670
			10	417	11.8	73 ± 2				

Screw Element

A screw element consists of two meshing helical rotors, typically referred to as the male rotor and the female rotor. These rotors rotate in opposite directions inside a precisely machined housing.



KEY COMPONENTS OF A SCREW COMPRESSOR SYSTEM

1. Electric Motor

- Type: Special Modified, Industry Standard TEFC (Totally Enclosed Fan Cooled), IP54 Protection.
- Features: Squirrel cage induction motor, premium winding and insulation quality.
- Benefit: Ensures continuous, trouble-free operation with high efficiency and reliability.

2. Heavy-Duty Air Intake Filter

- Function: Removes dust and particulates from incoming air.
- Benefit: Protects internal compressor components, prolonging service life.

3. Centrifugal Fan (Blower)

- Design: High-efficiency, low-noise centrifugal type.
- Benefit: Delivers effective cooling for consistent compressor performance.

4. Separate Oil Cooler and After Cooler

- Design: Large surface area for enhanced heat dissipation.
- Benefit: Reduces outlet air temperature, extends oil lifespan, and improves overall thermal.

5. Safety Relief Valve

- Function: Maintains system pressure within safe limits.
- Benefit: Ensures safe operation and protects against overpressure situations.

6. Air Intake Valve

- Function: Regulates the volume of air entering the screw element.
- Benefit: Controls compressor capacity and energy consumption based on demand.

7. Oil-Air Separation System

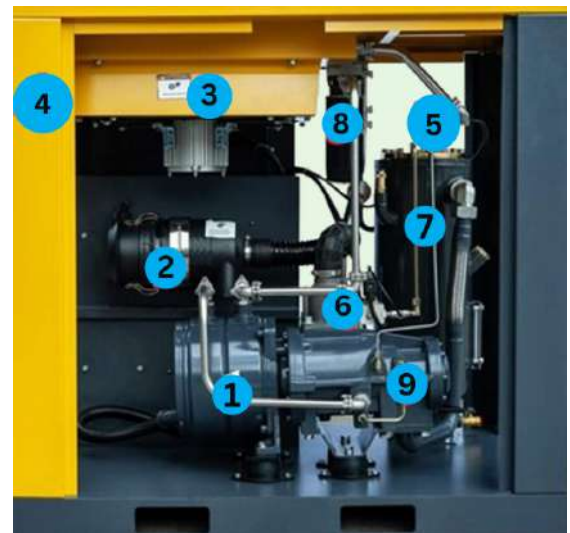
- Design: Optimized for low pressure drop and static grounding.
- Benefit: Provides efficient separation, reduces oil carryover, and ensures clean compressed air.

8. Oil Filter

- Features: High filtration efficiency, durable design.
- Benefit: Protects the oil circuit, reduces maintenance frequency, and ensures long service life.

9. High-Efficiency Airend (Screw Element)

- Design: Advanced rotor profile with premium bearings (e.g., SKF).
- Benefit: Delivers high output volume with superior mechanical reliability and efficiency.



Features of AGC Screw Compressor

- Direct Driven feature provide zero transmission losses with low RPM Screw Element.
- 3 Years Warranty for Screw Air End.
- Oil cooler is designed for 45° C ambient Temp, which is suitable for Indian industries circumstances.
- All parts are designed with universal design code/Standard.
- Consumable cost is Rs. 3.50 upto GRE 50 D(Price of consumable Lowest).
- No Hose pipe or any Rubber parts in System.

PERMANENT MAGNET SCREW COMPRESSOR

A Permanent Magnet Screw Compressor (often called PM Screw Compressor or PM VFD Compressor) is a high-efficiency rotary screw air compressor that uses a permanent magnet motor instead of a conventional induction motor. It is typically paired with a variable frequency drive (VFD) for intelligent speed control.

Feature	Traditional Screw Compressor	PM Screw Compressor
Motor Type	Standard Induction Motor	Permanent Magnet Motor
Motor Efficiency	Lower	Higher (IE4/IE5 class)
Speed Control	Fixed or VFD	Always VFD (Variable Speed)
Energy Savings	Moderate	30–50% more efficient
Start/Stop	High inrush current	Soft start with VFD
Maintenance	More moving parts	Fewer, longer lifespan

Key Features of a PM VFD Screw Compressor

- Permanent Magnet Motor** : Ultra-efficient IE4/IE5 motor with low energy loss.
- Variable Speed Drive (VFD)** : Adjusts speed based on air demand, saves up to 50% energy.
- Direct Drive Design** : Motor directly coupled to airend, minimizing transmission losses.
- High Efficiency at All Loads** : Maintains excellent performance even under partial load.
- Low Operating Cost** : Reduced electricity bills and minimal maintenance.
- Compact & Quiet Operation** : Integrated design, smaller footprint, low noise.
- Soft Start Technology** : No current spikes, smoother starts, protects electrical system



Shaft Less Motor

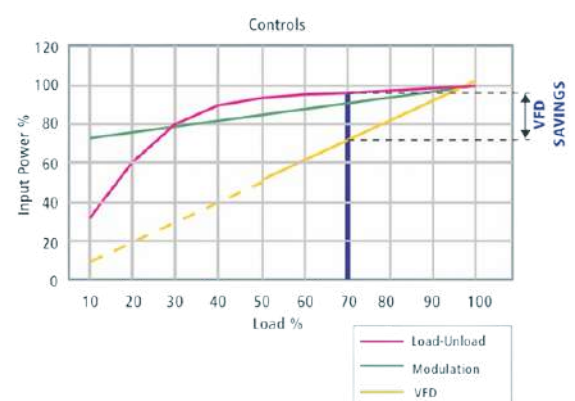


Technical Specification

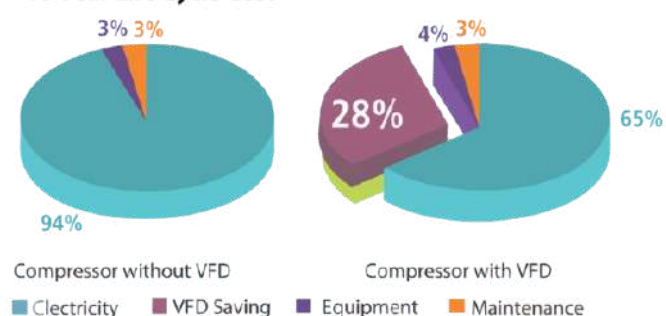
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Benefits

- **Energy Saving** : Cuts power use upto 35% by matching speed to air demand.
- **Stable Pressure** : Maintains consistent system pressure.
- **Soft Start** : Lowers starting load, reducing stress on components.
- **Less Maintenance** : Smoother operation means fewer breakdowns.
- **Low Noise** : Quieter performance at reduced speeds.
- **Longer Life** : Minimizes wear on motor and parts.
- **Quick ROI** : Saves energy, pays back investment faster.
- **Eco-Friendly** : Reduces power use and carbon footprint.



10 Year Life Cycle Cost



AIR DRYER

What an Air Dryer Does :

- Removes moisture from the compressed air before it reaches the point of use.
- Protects pneumatic tools, valves, actuators, and equipment.
- Prevents rust and contamination in the piping system.
- Improves air quality for processes that require dry air (like painting, powder coating, or food/pharma industries).

Base Model	Nominal Capacity cfm	Maximum Pressure Bar g	Air Connection In / Out	Rated Power* kW Air Cooled
AG-7.5AD	25	16	½"BSP(F)	0.15
AG-10AD	45	16	½"BSP(F)	0.20
AG-15AD	68	16	1"BSP(F)	0.40
AG-20AD	85	16	1"BSP(F)	0.50
AG-25AD	100	16	1½"BSP(F)	0.60
AG-30AD	134	16	1"BSP(F)	1.00
AG-40AD	180	16	1½"BSP(F)	0.90
AG-50AD	250	16	2"BSP(F)	1.40
AG-60AD	300	16	2"BSP(F)	1.60
AG-75AD	400	16	2"BSP(F)	1.90
AG-100AD	500	16	3"NB ASME Flg	2.30
AG-125AD	600	16	3"NB ASME Flg	2.80

AIRGEN AIR DRYER= LONG LIFE + HIGH QUALITY



Advantages of Airgen Dryer

- No Rust.
- Low Maintenance.
- Freeze-Proof in Winters.
- Clean, Reliable Air Always.
- Zero Moisture in End Product.
- Smooth Machine Performance.

MOISTURE FILTER

What Does a Moisture Filter Do in a Screw Compressor?

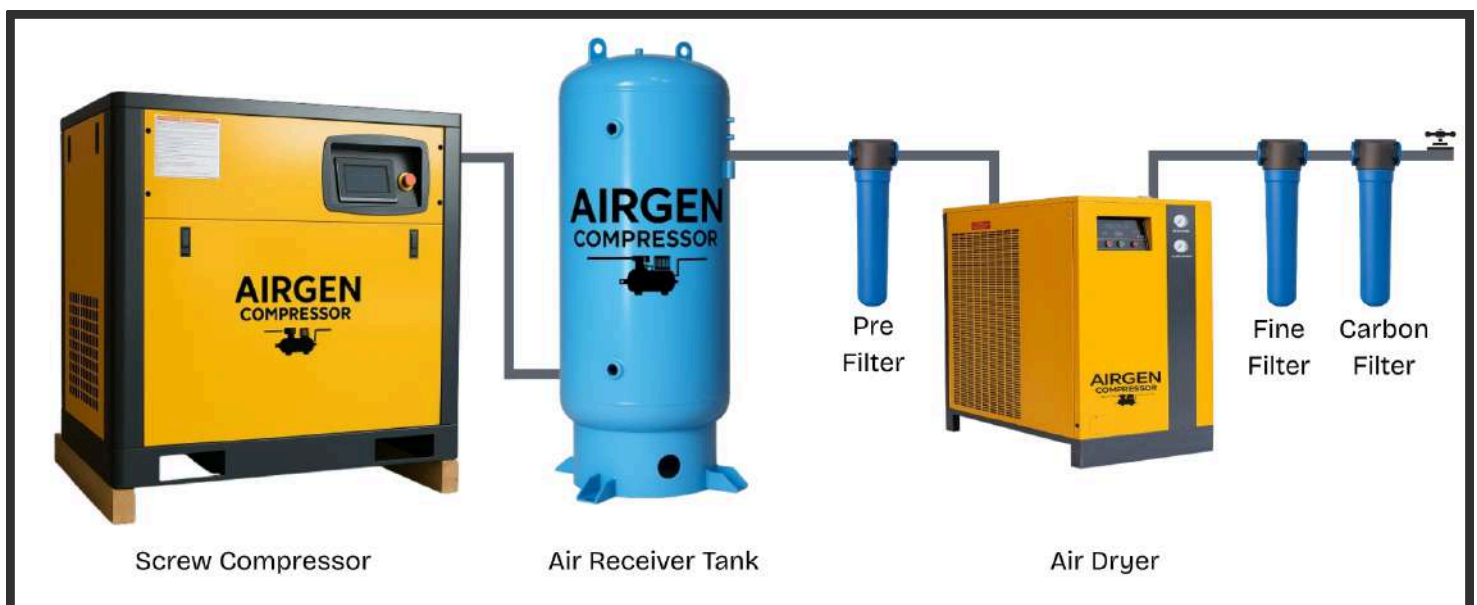
- Traps moisture that forms after compression.
- Prevents water from flowing through the air lines.
- Protects pneumatic tools, valves, and systems.
- Improves air quality and prevents damage from water corrosion.

SILENT PROTECTOR OF YOUR COMPRESSOR



Advantages of Airgen Moisture filter

- Prevents rust and corrosion.
- Extends tool and equipment life.
- Improves air quality.
- Reduces maintenance costs.
- Enhances product quality.
- Prevents freezing in cold conditions.
- Protects control systems.
- Boosts overall efficiency.



RECIPROCATING COMPRESSOR

RECIPROCATING TWO STAGE COMPRESSOR

TECHNICAL SPECIFICATION

MODEL	MOTOR		NO. OF CYL	RPM	RECIEVE R (LTR)	PRESSU RE (KG)	CFM
	HP	KW					
AGC-1	1	0.70	1	1440	110	12	3.5
AGC-2	2	1.40	2	1440	160	12	5
AGC-3	3	2.20	2	1440	200	12	9.05
AGC-5	5	3.70	2	1440	250	12	15.00
AGC-7.5	7.5	5.50	2	1440	250	12	21.00
AGC-10	10	7.50	2	1440	300	12	35.00



RECIPROCATING COMPRESSOR

RECIPROCATING MULTI-STAGE COMPRESSOR

“Engineered for High Pressure, Built for Reliability.”

A multistage reciprocating air compressor compresses air in multiple steps using two or more cylinders. Between each stage, the air is cooled using intercoolers, which increases efficiency and allows the compressor to reach much higher pressures with lower energy consumption.

MODEL	MOTOR		NO. OF CYL	RPM	RECIEVE R (LTR)	PRESSUR E (KG)	CFM
	HP	KW					
AGC-15	15	11.0	3	1440	500	12	48.09
AGC-20	20	15.0	3	1440	500	12	56.00
AGC-25	25	18.5	3	1440	1000	12	62
AGC-30	30	22	3	1440	1000	12	75

Key Features

- Heavy-Duty Construction – Cast iron cylinders and precision-machined components.
- High Pressure Output – Up to 1000 psi.
- Efficient Intercooling – Reduces heat and improves performance.
- Low Maintenance Design – Easy access for servicing.
- Low Vibration and Noise – Balanced operation.
- Air / Water Cooling Options – Suitable for different environment.

AIR RECEIVER TANK

TECHNICAL SPECIFICATION OF RECEIVER TANK

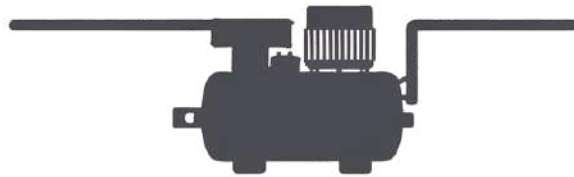
BASE MODEL	MAXIMUM PRESSURE BAR (KG)	AIR CONNECTION IN / OUT
AGT - 300 LTR	12	1"BSP (F)
AGT - 500 LTR	12	1½ "BSP (F)
AGT - 1000 LTR	12	1½ "BSP (F)
AGT - 1500 LTR	12	3"BSP (F)
AGT - 2000 LTR	12	3"BSP (F)
AGT - 3000 LTR	12	3"BSP (F)
AGT - 5000 LTR	12	3"BSP (F)



Airgen High-Quality Air Receiver

- **Consistent Air Pressure** : Maintains steady output pressure, protecting equipment from fluctuations.
- **Increased Compressor Life** : Reduces frequent start-stop cycles, minimizing wear and extending compressor lifespan.
- **System Stability** : Supports better performance of dryers, filters, and other downstream equipment.
- **Improved Safety** : Built with certified safety valves and tested for high-pressure endurance to prevent accidents.
- **Low Maintenance, Long Life** : Manufactured with corrosion-resistant materials and strong welds, ensuring durability and minimal servicing.
- **Compliance with Standards** : Meets industry standards like ASME / IS, giving peace of mind and regulatory compliance.
- **Higher ROI** : Investing in quality means fewer breakdowns, longer service intervals, and better overall system performance.

AIRGEN COMPRESSOR



Our Vision

To be a leading global brand in compressed air solutions by delivering innovation, unmatched reliability, and world-class service—empowering industries with sustainable and efficient compressor technologies.

Our Mission

At Airgen Compressor, our mission is to manufacture high-quality screw and piston compressors that deliver performance, durability, and value. We are dedicated to exceeding customer expectations through a strong service network, responsive after-sales support, and a commitment to continuous improvement. With a focus on reliability and customer satisfaction, we aim to build lasting partnerships and contribute to the success of industries worldwide.



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