







"Six Decades of experience and specialization, together with new ideas and the proven reliability of our compressors and compressed air systems." Founded in 1966, PARAMINA SA deals exclusively with compressed air; driven to the third generation of ownership as a manufacturer of high-pressure (420bar max.) piston air compressors, screw air compressors and auxiliary compressed air systems suitable for Breathing Air as well as Industrial applications in

- Firefighting
- Diving & Medical Engineering
- Defense (air force, navy, army)
- Oil & Gas/H₂S protection
- Marine & Offshore
- Gas Industry (Nitrogen, Helium, Argon)
- Paintball & Shooting Sports
- Motorsports
- Industrial & General-Purpose Air





CERTIFICATES



- Robust Manufacturing based on quality, endurance and low operational cost
- Extensive and specialized knowledge of our engineers
- 3D Mechanical Design & Engineering
- Flexibility
- Personal & Direct approach to all customers
- Instant response to all inquiries
- · Short & Prompt deliveries
- Rapid & Immediate service support
- Full availability of all spare parts in stock
- · Low priced spare parts
- Custom design solutions according to customers' demands
- Free sales & service training in our facilities for all our partners
- Quality Management system according to EN ISO 9001:2015, certified by TUV AUSTRIA, for the entire production process, from Research & Development to Manufacturing, Sales and After Sales Services for all our air compressors and air processing equipment. We apply also an environmental system according to EN ISO 14001.
- CE & UKCA declaration of conformity by independent accredited bodies & compliance with EU & UK directives of all our air compressors and air processing equipment.
- IACS approved and certified products for marine industry
- ATEX approved and certified products for Oil & Gas industry
- Compliance with all international standards and regulations in order to reassure the final product quality and user's safety during operation.
 Paramina's own manufacturing products such as Compressors, Dryers, Filtration Systems, Filling Panels, Storage Systems, Air Quality Control & Measuring Systems, Safety Valves, Filling Valves, Filling Hoses, Pressure Maintaining Valves, are tested ONE by ONE individually, under strict procedures and with the latest pressure testing equipment.
- Product Liability Insurance for all our customers
- · Worldwide Sales & Service network





Design Specifications

Robust Construction

 High performance screw compressors, air cooled, oil lubricated with compact cast-iron unit (encapsulated screw air end), providing leak-free operation and long-lasting performance. The compact unit incorporates: Screw air end with heavy-duty bearings and large diameter rotors, ensuring high efficiency and long service life, Intake valve, Intake Air filter, Centrifugal Air-Oil separation system with coalescing element resulting in oil carry-over less than 2 mg/m³, Oil filter, Oil receiver, Oil thermostat, Safety valve, Maintenance valve.

Highly Efficient Cooling

- Oversized aluminum Air Oil cooler, ensuring continuous operation even at high ambient temperatures.
- Centrifugal condensate separator with automatic drain.
- Independent cooling fan motor.

Optimal Control System

- Paramina Digital Controller drives, controls & protects the compressor, ensuring safe operation and proper maintenance.
- Safety device protecting against voltage failure & incorrect phase rotation.
- Analogue safety & operating pressure sensors
- 24V secondary voltage providing safety during routine operation
- Star/Delta Starter system
- Electric motor Class F, IP55, IE3-4, 400-440V/50-60Hz, with overload protection

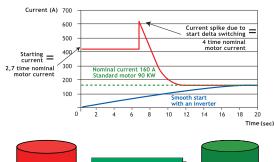
Simple Maintenance

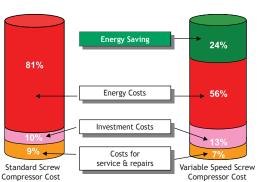
 Easy and rapid service access, through large doors (openings)

Low Noise Level / Vibration

- Silent operation through highly efficient soundproofed enclosures.
- Build-In anti-vibration control
- Automatic belt tensioning system

Working Pressure 15bar max.





Variable Speed Inverter

- Saving in energy consumption.
- Smooth motor starting with zero over current.
- Continuous speed variation to achieve the exact required air volume.
- Constant network pressure (± 0,1 bar).
- User controlled selection of the network pressure (variable adjustment between 5 and 13 bar).
- Avoiding unload times (energy efficient).
- Reduction of unload cycles.
- No Load/Unload switching to ensure less stress to the machine.
- Harmonic filters and sensing protection device.
- Constant Power Factor.
- High Efficiency of the moror.

MODELS & TECHNICAL DATA







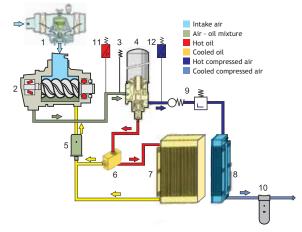












Flow Diagram

- 1 Air filter intake valve.
- 2 Screw Air End.
- 3 Safety valve.
- 4 Air/Oil separator.
- **5** Oil filter.
- 6 Oil thermostat.
- 7 Oil cooler.
- 8 Air cooler.
- 9 Maintenance valve.
- 10 Water separator.
- 11 Safety pressure switch.
- 12 Working pressure switch.



FIXED SPEED (FS) & VARIABLE SPEED (VS)

Model	Working Pressure		Capacity @ nominal		Motor Power		Air Outlet	Noise Level	Dimensions (mm)						Weight
	working Pressure		pressure		Motor Fower				FS VS					Weight	
	bar	psi	m3/min	cfm	kW	Нр	inch	dB (A)	L	W	н	L	W	Н	Kg
AE 4RE	8	116	0.65	22.95	4	5.5	G 1/2"	65	810	660	1400	810	660	1400	215
	10	145	0.47	16.59											
	13	190	0.37	13.06											
AE 5RE	8	116	0.90	31.77	5.5	7.5	G 1/2"	65	810	660	1400	810	660	1400	241
	10	145	0.72	25.42											
	13	190	0.52	18.36											
AE 7RE	8	116	1.23	43.42	7.5	10	G 1/2"	67	810	660	1400	810	660	1400	252
	10	145	0.95	33.54											
	13	190	0.84	29.65											
	15	220	0.68	24.00											
AE 11RE	8	116	1.78	62.83	11	15	G 3/4"	68	1040	660	1400	1040	660	1400	328
	10	145	1.54	54.36											
	13	190	1.25	44.13											
	15	220	1.00	35.30											
AE 15RE	8	116	2.36	83.31	15	20	G 3/4"	69	1040	660	1400	1040	660	1400	345
	10	145	2.05	72.37											
	13	190	1.65	58.25											
	15	220	1.40	49.42											
AE 18RE	8	116	3.23	114.02	18.5	25			1250			1250	850	1650	539
	10	145	2.72	96.02			G 1 ½"	71		850	1650				
	13	190	2.26	79.78											
	15	220	1.75	61.78											
AE 22RE	8	116	3.70	130.61	- 22	30	G 1 ½"	72	1250	850	1650	1250	850	1650	570
	10	145	3.13	110.49											
	13	190	2.72	96.02											
	15	220	1.90	67.07											
AE 30RE	8	116	4.80	169.44	30	40	G 1 ½"	73	1250	850	1650	1250	850	1990	645
	10	145	4.26	150.38											
	13	190	3.70	130.61											
	15	220	2.80	98.84											
AE 30T	8	116	5.25	185.33	30	40	G 1 ½"	72	1250	850	1650	1250	850	1990	723
	10	145	4.34	153.20											
	13	190	3.71	130.96											
AE 37T	8	116	6.31	222.74	37	50	G 1 ½"	73	1250	850	1650	1250	850	1990	740
	10	145	5.48	193.44											
	13	190	4.70	165.91											
AE 37RE	15	220	3.50	123.55											
AE 45T	8	116	7.21	254.51	45	60	G 1 ½"	74	1250	850	1650	1250	850	1990	810
	10	145	6.45	227.69											
	13	190	5.40	190.62											
AE 45RE	15	220	4.90	172.97											
AE 55RE	8	116	9.40	331.82	55	75	G 2 ½"	75	1950	1020	2200	1950			
	10	145	7.72	272.52									1020	2200	1222
	13	190	6.64	234.39											
	15	220	5.90	208.27											
AE 75RE	8	116	12.20	430.66	75	100	G 2 ½"	76	1950	1020	2200	1950	1020	2200	1306
	10	145	10.70	377.71											
	13	190	8.86	312.76											
	15	220	7.60	268.28											

Air Dryers

Refrigerated with unique design and new aluminum heat exchanger, ensuring a simple, reliable and maintenance free solution for dry and clean air. Dew Point: +3 °C



Adsorption, heatless or heat regenerated for totally dry compressed air - absolutely free from condesnsation. Dew Point: -20 °C to -70 °C.



Coalescing Filters

Highly efficient compressed air filters, designed to remove particles, oil, oil vapor and odour down to 0,01 micron and 0,003 mg/m³.

- Differential pressure manometer.
- Anodising treatment.
- Automatic condensate drain.



Air Tanks

High-Resistant air tanks, CE certified according to European directives.

- Painted or Galvanized
- Manometer & Safety Valve
- Manual & Automatic Condensate drain.



Oil/Water Separators

Separation and collection of condensate lubricant according to European directives for environmental protection.

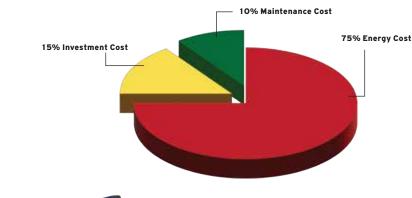
Compressed air system installation diagram



WORLD-CLASS COMPRESSED AIR AUDITING & ENERGY SAVING MANAGEMENT SOLUTIONS

Do you know the cost of compressed air?

Researches in industries all over the world have shown that Energy is the largest cost associated with compressed air, equal to **75%** of the total cost of ownership of a typical rotary screw air compressor.

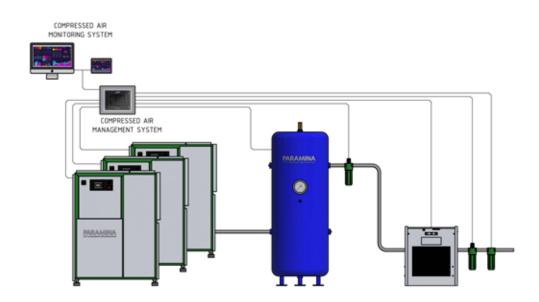


We Measure and Analyze the performance, health and efficiency of the compressor & entire compressed air system, regardless of its size, brand or age.

We Measure Quickly and efficiently Pressure, Voltage, Current & Flow and calculate productive power and unproductive power relating of the compressed air system.



We provide Compressed Air energy saving Management solutions that enable your organization to reduce energy costs and its environmental footprint, regardless of the brand and age of compressors you use. By the combined use of Variable Speed Controlled (Inverter) compressors, energy savings of up to 60% can be achieved.



	1966	Birth of PARAMINA						
1973	1981	PARAMINA is the first company						
1995	d	in Greece to begin the manufacture of screw compressors.						
2002	1997	One of the first Greek Companies, but worldwide as well, to start the quality management procedures for the certification of ISO 9001 and CE.						
2004	2003	PARAMINA began with great success to export						
2004	Ĭ	its products in the international market. London Dive Show						
2007	0 2005	PARAMINA moves to the new factory aiming to further development of its products and services.						
2012	2010	PARAMINA manufactures high pressure refrigerated dryer "CRYO", 36 m³/h – 350bar max.						
	2013	PARAMINA begins the production of new high pressure piston gas compressors suitable for Nitrogen(N_2),						
2014	d	Helium (He), Argon (Ar). Mistral, Typhoon & Cyclone Gas series, from 6.6 m³/h to 36 m³/h – 350bar max.						
2016	2015	PARAMINA launches the new "Force" in our high pressure compressor series, Notus model, 10 m ³ /h – 350bar max.						
	2019	Newly designed Typhoon compressor models, Tropical series specialized for high ambient temperatures, increased humidity and contaminated environment. Electric & Diesel version, 19,2 m³/h – 350bar max.						
2021	0 2022	PARAMINA introduces new breathing air compressor model Cyclone Classic 24 Diesel, 24 m ³ /h -350bar max.						
	1995 2002 2004 2007 2012 2014	1973						





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