



SCREW COMPRESSORS

PARAMINA
Air Compressors Manufacturers



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, 400-440V/50-60Hz, with overload protection

Simple Maintenance

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

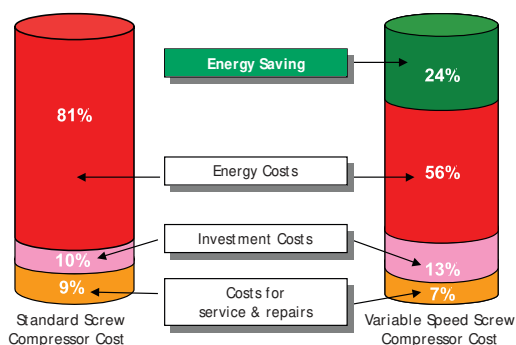
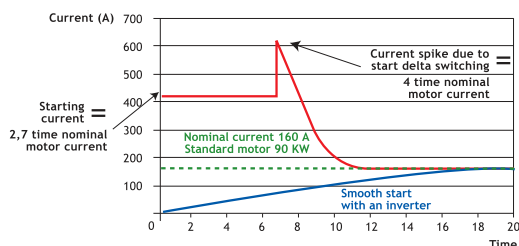
Low Noise Level

- Silent operation through highly efficient soundproofed enclosures.

Automatic Belt Tensioning system

Built-In Anti-vibration control

Full availability of all spare parts in stock



Variable Speed Inverter

- Saving in energy consumption.
- Smooth motor starting.
- Continuous speed variation to achieve the exact required air volume.
- Constant network pressure ($\pm 0,1$ bar).
- User controlled selection of the network pressure (variable adjustment between 5 and 13 bar).
- Non-expensive and long unload times (energy efficient).
- No Load/Unload switching to ensure less stress to the machine.
- Harmonic filters and sensing protection device.

Product Line



AE 4RE - 7RE



AE 11RE - 15RE



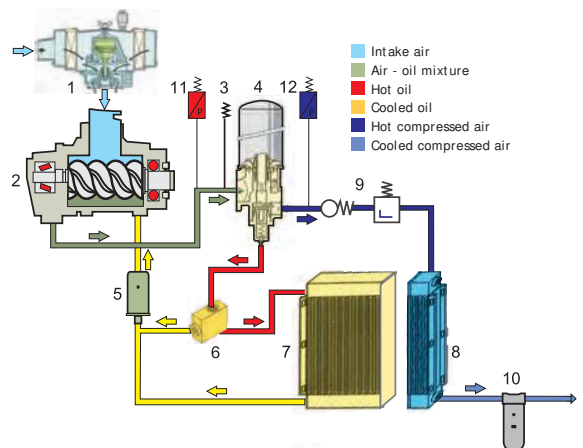
18RE - 30RE



AE 30T - 45T



AE 55RE - 75RE



Flow Diagram

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

Fixed Speed (FS) & Variable Speed (VS)

Models & Technical Data

Model	Working Pressure		Capacity @ nominal pressure		Motor Power		Air Outlet	Noise Level	Dimensions (mm)						Weight
	bar	psi	m3/min	cfm	kW	Hp	inch	dB (A)	FS			VS			FS
									L	W	H	L	W	H	Kg
AE 4RE	7.5	110	0.65	21.89	4	5.5	G 1/2"	65	810	660	1400	810	660	1400	230
	10	145	0.47	15.89											
	13	190	0.37	10.94											
AE 5RE	7.5	110	0.90	30.00	5.5	7.5	G 1/2"	65	810	660	1400	810	660	1400	232
	10	145	0.72	23.65											
	13	190	0.52	17.65											
AE 7RE	7.5	110	1.23	41.65	7.5	10	G 1/2"	67	810	660	1400	810	660	1400	256
	10	145	0.95	31.77											
	13	190	0.84	26.48											
AE 11RE	7.5	110	1.78	61.77	11	15	G 3/4"	68	1040	660	1400	1040	660	1400	328
	10	145	1.54	53.66											
	13	190	1.25	40.95											
AE 15RE	7.5	110	2.36	79.42	15	20	G 3/4"	69	1040	660	1400	1040	660	1400	340
	10	145	2.05	69.89											
	13	190	1.65	54.72											
AE 18RE	7.5	110	3.23	111.20	18.5	25	G 1 1/2"	71	1250	850	1650	1250	850	1650	585
	10	145	2.72	93.55											
	13	190	2.26	77.66											
AE 22RE	7.5	110	3.70	127.08	22	30	G 1 1/2"	72	1250	850	1650	1250	850	1650	615
	10	145	3.13	107.67											
	13	190	2.72	93.55											
AE 30RE	7.5	110	4.80	169.44	30	40	G 1 1/2"	73	1250	850	1650	1250	850	1990	670
	10	145	4.26	150.38											
	13	190	3.70	130.61											
AE 30T	7.5	110	5.25	185.33	30	40	G 1 1/2"	72	1250	850	1650	1250	850	1990	723
	10	145	4.34	153.20											
	13	190	3.71	130.96											
AE 37T	7.5	110	6.31	222.74	37	50	G 1 1/2"	73	1250	850	1650	1250	850	1990	735
	10	145	5.48	193.44											
	13	190	4.70	165.91											
AE 45T	7.5	110	7.21	254.51	45	60	G 1 1/2"	74	1250	850	1650	1250	850	1990	810
	10	145	6.45	227.69											
	13	190	5.40	190.62											
AE 55RE	7.5	110	9.40	338.88	55	75	G 2 1/2"	75	1950	1020	2200	1950	1020	2200	1330
	10	145	7.72	289.60											
	13	190	6.64	250.63											
AE 75RE	7.5	110	12.20	441.25	75	100	G 2 1/2"	76	1950	1020	2200	1950	1020	2200	1400
	10	145	10.70	388.30											
	13	190	8.86	349.47											

* Allowed ambient temperature: 0 - 45 °C

1. Refrigerated/Adsorption Air Dryers

Unique design with new aluminum heat exchanger, ensuring a simple, reliable and maintenance free solution for dry and clean air.



2. 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.



3. Air Tanks

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

- Manometer & Safety Valve
- Manual & Automatic Condensate drain.



5. Spare parts for all types of screw compressors

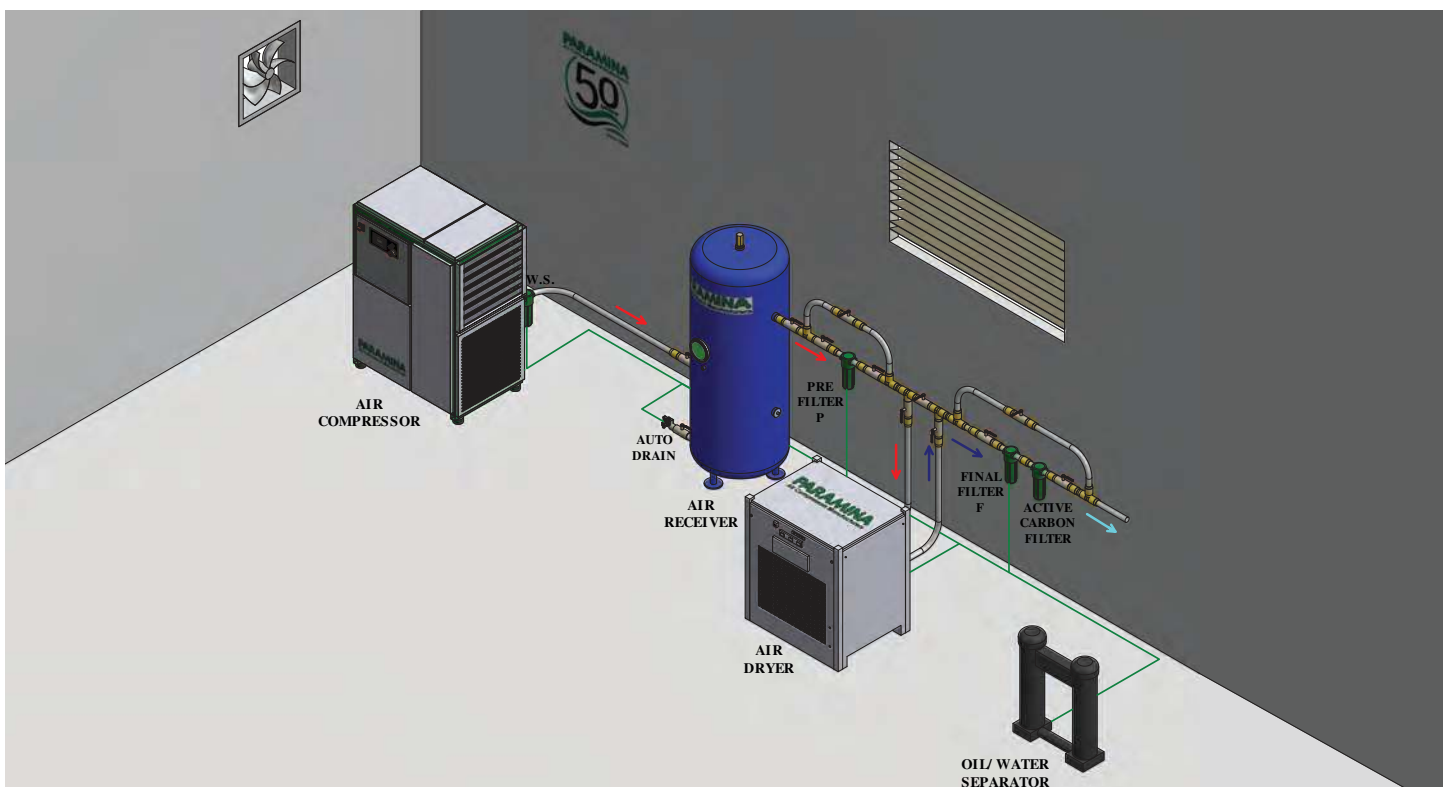


4. Oil/Water Separators

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



Industrial compressed air system installation diagram



Quality
Experience
Specialization
Reliability
Since 1966



Paramina was founded in 1966 and continues to exclusively manufacture air compressors and compressed air systems. Five decades of experience and specialization, together with new ideas and the proven reliability of our compressors, have established **PARAMINA as a byword for quality** in the compressed air market.



London Dive Show



1973

PARAMINA pioneers the first use of an adjusting screw compressor on a tractor (5 m³/min, 8 bar).

1981

PARAMINA is the first company in Greece to begin the manufacture of screw compressors.

1995

PARAMINA commences the production of high pressure breathing air compressors (40-350 bar).

2002

PARAMINA extends its screw compressor series, up to 110 KW.

2003

PARAMINA began with great success to export its products in the international market.

2004

PARAMINA installs variable speed technology (inverter) to the whole range of screw compressors and develops the most contemporary energy saving systems for any compressed air system installation.

2005

PARAMINA moves to the new factory aiming to further development of its products and services.

2007

PARAMINA extends its high pressure compressor series, with the new model Cyclone, 24-36 m³/h – 350bar max.

2010

PARAMINA manufactures high pressure refrigerated dryer "CRYO", 36 m³/h – 350bar max.

2012

PARAMINA increases the maximum working pressure of its high pressure compressor models Typhoon & Cyclone, up to 420 bar.

2015

PARAMINA launches the new force in our high pressure compressor series, Notus model, 10 m³/h – 420bar max.



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