



# Two-Stage Oil-Free Reciprocating Air Compressor

**ELGi**  
Always Better.

**UPTIME™**  
ASSURANCE



CIN: L29120TZ1960PLC000351

[www.elgi.com](http://www.elgi.com)

5 - 15 HP / 3.7 - 11 kW

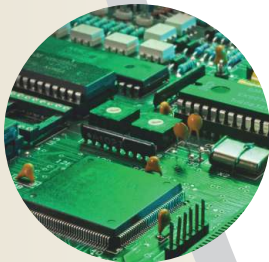
# Oil-free reciprocating compressors



The two stage oil-free reciprocating compressors are Elgi's solutions to the increasing need by industries and research institutions for higher purity in compressed air applications.

"No oil in compressor is equal to no oil in output air from the compressor" Elgi oil-free compressors are engineered on this principle. Elgi has adapted a dry crankcase that is totally devoid of oil. The internal moving and friction parts of the compressor have been designed suitably to overcome the absence of lubricating oil. Sealed bearings have been used for crankshaft and connecting rods. Poly Tetra Fluoro Ethylene (PTFE) coated pistons and PTFE rings have been used to provide wear resistance.

Designed for industrial duty, the compressor is a perfect solution for applications where oil carried in air can affect the end product or downstream components through which air flows after the compressor. To the customer this means less expenditure on maintenance – elimination of expensive oil removal filters, frequent stoppages for oil top and oil fills in the crankcase.



## Applications:

- Oxygen/Nitrogen generation plants
- Laboratories
- Research facilities
- Pharmaceutical industry
- Food processing & packaging
- Electronics production
- Ozone generation
- Printing equipment
- Fermenters
- Applications that are zero tolerant to oil in compressed air



### Cylinder and cylinder head

- deep finned cylinders for efficient heat dissipation
- cylinder walls are specially coated for wear and corrosion resistance
- polished bore and smooth finish of the cylinders provide longer wear life of the piston rings



### PTFE coated pistons and PTFE rings

ensure longer wear life and gas tight sealing



## The technology edge Design

### Stainless Steel reed valves

for corrosion resistance



### Single piece crankshaft

robust and easy to assemble



### Flanged aluminium aftercooler

from high pressure cylinder for efficient cooling



### Delivery unloader

for automatic unloading of the compressed air in the delivery pipelines



### Twin sided belt guard

meeting OSHA standards

### Rust proof internal coating

for air receiver



# Technical Specification

Model	Motor Power		Free Air Delivery		Dimensions (LxBxH)	Net Weight	Air receiver
	HP	kW	m <sup>3</sup> /hr	cfm	mm	kg	Litres
TS 05 OF B	5.0	3.7	24.60	14.5	1618 x 560 x 1015	210	220
TS 07 OF B	7.5	5.5	37.38	22.0	1618 x 560 x 1015	230	220
TS 10 OF B	10.0	7.5	57.78	34.0	1650 x 880 x 1315	400	420
TS 10 OF B	10.0	7.5	57.78	34.0	1545 x 675 x 830	220	BM
TS 15 OF B	15.0	11.0	76.44	45.0	1650 x 880 x 1315	460	420
TS 15 OF B	15.0	11.0	76.44	45.0	1545 x 675 x 830	280	BM

**Note:**

- Maximum operating pressure is 10 bar
- Free air delivery measured in accordance with IS 5456
- BM - Base Mounted

## ELGi Airmate Accessories



### Refrigeration Air Dryer

- Capacity : 10-2000 cfm
- Working pressure : 7-60 bar
- Filtration range: +3°C. PDP



### Dessicant Air Dryer

- Capacity : 10-45 cfm
- Max. working pressure : 16 bar g



### Downstream filter

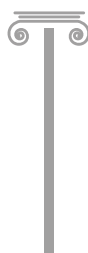
- Capacity : 19-1200 cfm
- Working pressure : 7-60 bar
- Filtration range: 1-0.003 microns



### Drain Valves

#### Timer controlled and zero loss

- Capacity : 50-2000 cfm
- Max. Working pressure : 16 bar g
- Media : Condensate



#### UPTIME Design

This speaks to the engineering and design of our products. Our R&D is dedicated to designing machines that run cooler, cleaner and longer... that are easy to service... with longer service intervals.



#### UPTIME Components

For so many of our customers, seeing is believing. They know a quality-built machine when they see it. That's why every part on a ELGi compressor is a quality part.



#### UPTIME Assurance

Here is where we back our pledge, Our industry leading warranties, parts availability and call centers staffed by experts assure peace-of-mind to our customers.



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