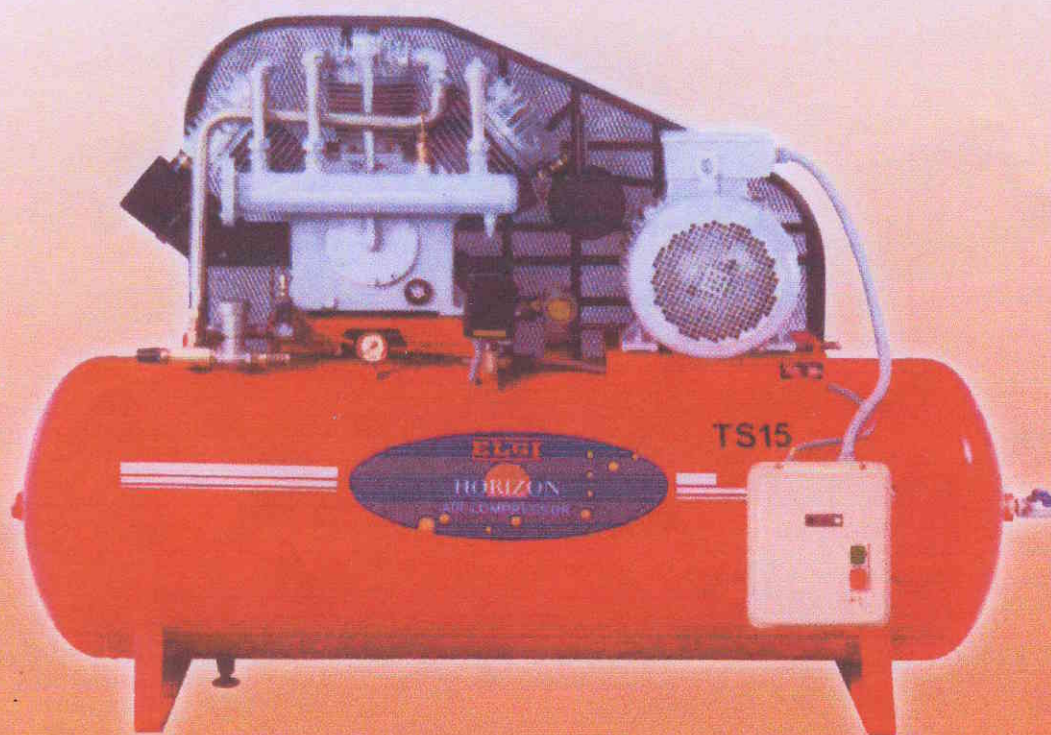




**ELGI<sup>®</sup>**

# BUILT STRONG

TO LAST LONG  
TO MEET EVERY APPLICATION



**HORIZON**

**RECIPROCATING AIR COMPRESSORS**  
SETTING NEW STANDARDS, OPENING NEW HORIZONS

## Technical Specifications

01	Model	TS 03 120 HN		
02	Type	Reciprocating, Air cooled, Splash lubricated		
03	Displacement	m <sup>3</sup> /h	18.16	
		lpm	302.74	
		cfm	10.69	
04	Free air delivery @ 10 bar	m <sup>3</sup> /h	15.00	
		lpm	249.95	
		cfm	8.82	
05	Working pressure	kgf/cm <sup>2</sup>	12	
06	Type of configuration		V	
07	Compression stages	No.	2	
08	Cylinders	No.	2	
09	Cylinder size & stroke	mm	70 x 50 x 85	
10	Type of piston rings		Dia 70	Dia 50
	a) Plain compression	No.	1	1
	b) Stepped compression	No.	1	1
	c) Slotted oil control	No.	2	2
11	Clearance between piston crown and cylinder top	mm	0.95 to 1.35	
12	Type of valve		Finger	
13	Volumetric efficiency	%	78	
14	Compressor speed	rpm	925	
15	Motor type		Sq. cage Ind. TEFC	
16	Motor rating	HP	3	
		kW	2.2	
17	Motor speed - syn.	rpm	1420	
18	Motor frame size		100 L	

## Technical Specifications

19	Degree of protection		IP55	
20	Class of insulation		F	
21	Electric supply			
	a) Voltage	V	415 / 380	
	b) Phase		3	
	c) Frequency	Hz	50	
22	Type of starter		DOL	
23	Belt size & qty 160 / 220 ltrs		A 70x2 / A 74x2	
24	Specific power consumption	kW/m <sup>3</sup> /h	0.1366	
25	Type of lubrication		Splash	
26	Type of cooling		Air	
27	Type of fan		Forced draught	
28	Oil fill capacity	ml	580max 440 min.	
29	Grade of oil (Servo Press)			
	a) -15 to +80 deg C		ELGI AIRLUBE	
30	Outlet air temperature	Deg C	10 above ambient	
31	Air outlet size	BSP	1/2"	
32	Pressure switch set pressure			
	a) cut off	kgf/cm <sup>2</sup>	12	
	b) cut in	kgf/cm <sup>2</sup>	9	
33	Safety valve set pressure			
	a) Intercooler	kgf/cm <sup>2</sup>	6	
	b) Aftercooler	kgf/cm <sup>2</sup>	16.2	
	c) Air receiver	kgf/cm <sup>2</sup>	14	
34	Air receiver capacity	litre	160	220
35	Overall dimensions (lxbxh)	mm	1345 x 510 x 1085	1595 x 510 x 1085
36	Nett weight	Kg	200	225

## The ELGI Edge - In Black & White

Model	Piston Displacement		Free Air Delivery*		Motor Power		Compressor	Tank Capacity	Overall Dimensions	Net Weight
	lpm	cfm	lpm	cfm	HP	kW	rpm	Litres	(LxBxH) mm	kg

### SS SERIES (Maximum Pressure 9kg / cm<sup>2</sup> 128 psi, Single Stage)

SS 03 090 HN	360	12.7	256	9.0	3.0	2.2	550	160L	1345X540X1085	205
SS 05 090 HN	605	21.4	443	15.6	5.0	3.7	925	220L	1595X545X1085	265
SS 07 090 HN	921	32.5	708	25.0	7.5	5.5	690	220L	1595X635X1115	307
SS10090HN	1228	43.4	950	33.6	10.0	7.5	920	220L	1595X635X1115	322
SS10090HN	1228	43.4	950	33.6	10.0	7.5	920	420L	1660X825X1240	367
SS15090HN	1853	66.4	1390	49.1	15.0	11.0	925	500L	1925X885X1515	514

### TS SERIES (Maximum Pressure 12kg / cm<sup>2</sup> or 175 psi, Two Stage)

TS 03 120 HN	311	10.98	250	8.8	3.0	2.2	925	160L	1345X510X1085	200
TS 03 120 HN	311	10.98	250	8.8	3.0	2.2	925	220L	1595X510X1085	225
TS 05 120 HN	501	17.7	410	14.5	5.0	3.7	925	220L	1595X585X1095	275
TS 07 120 HN	700	24.7	580	20.5	7.5	5.5	1050	220L	1600X630X1120	275
TS 10 120 HN	1001	35.3	853	30.1	10.0	7.5	750	500L	1925X885X1350	525
TS 15120 HN	1535	54.3	1250	44.1	15.0	11.0	1150	500L	1925X885X1350	575

\*Measured as per IS 5456 at working pressures for SS models at 7kg/cm<sup>2</sup> and for TS models at 10kg/cm<sup>2</sup>

Key product feature	Benefits
Cast iron block	Our performs and outlasts aluminium block compressor
Continuous duty rating	No stand-by compressor required
High efficiency, lower rpm	Lower wear & tear
Pressure switch with unloader*	Easy starting and increased motor life
Totally enclosed belt guard	Full protection against accidents
Inter stage pressure relief valve	Provides extra safety
Air receiver (ASME / Euro norms)	Totally safe, as per international standards
Low outlet air temperature	Long life of downstream accessories & machine components
Testing as per IS 5456 standards	Guaranteed output
* Future available with select models only	



Screw  
Air Compressor



Tank Mounted  
Screw Compressor



Air Receiver



Refrigerated Air Drier

NOTE : Since manufacturers are continuously developing their products , the details given in the leaflet are not binding are subject to change without notice.

Manufactured by : **ELGI Equipments Limited**, Coimbatore  
**Authorised Distributor :**

### CONVERSION TABLE

From	To	Multiply by
cfm	m <sup>3</sup> /h	1.699
<del>cfm</del>	lpm	28.317
cfm	m <sup>3</sup> /min	28.317/1000
cfm	l/s	0.472
cfm	Nm <sup>3</sup> /h	1.432
cfm	Scfm	0.8905
m <sup>3</sup> /h	lpm	16.667
m <sup>3</sup> /h	cfm	35.315/60
m <sup>3</sup> /min	m <sup>3</sup> /h	60
m <sup>3</sup> /min	cfm	35.315
lpm	cfm	0.03531
l/s	cfm	2.119
Nm <sup>3</sup> /h	m <sup>3</sup> /h	1.2285*
Nm <sup>3</sup> /h	cfm	1.2285/60 x 35.315
bar	kgf/cm <sup>2</sup>	1.0197
bar	psi	14.503
bar	atm	0.9889
kgf/cm <sup>2</sup>	psi	14.223
psi	Pa	6895.125
kW	hp	1.341
hp	kW	0.7457
kg	lb	2.2046

\* Coimbatore inlet condition