

**ELGI™**



**ELGI PET High Pressure  
Reciprocating Compressor**

The lungs of your PET machine

**UPTIME™**  
ASSURANCE

# The ELGI Advantage

Elgi's high pressure compressors are ideally suited for PET bottle blowing applications which operate with semi automatic machines. While the model HP 20 330S is suitable for the requirements of PET bottle blowing needing working pressure up to 30 bar, the model HP 20 400S addresses blowing applications which need a working pressure of 35 bar since its maximum operating pressure is 40 bar. The latter model precisely meets the requirements of semi automatic PET preform blowing machines for carbonated drinks like soda, etching of shapes in bottles, and other applications which need blowing pressure in excess of 33 bar.

The compressors are designed for operator and plant safety with OSHA standards with twin sided belt guard, sealed safety valves as the compressors operate at higher pressures. Elgi offers these compressors with a host of Elgi 'Airmate' downstream accessories such as pre and fine filters, oil moisture separators, refrigerant dryers and vertical air receivers designed to ASME standards.

## Flanged Joints

Flanged joints prevent compressed air leaks. It is easier to torque-tighten these joints during maintenance.

## Piston Rings

The compressor is provided with piston rings to ensure low oil carry over

## Deep Finned Cylinders & After coolers

Ensures that the compressor block is properly cooled while operating at higher pressures.

## Safety Valves

Sealed valves ensure operator safety as compressors operates at maximum pressure of 33 bar.

## Suction Unloaders

Helps operate the compressor for longer durations as PET blowing applications demand over 16 hours of operation per day.

## Delivery Unloader

Operator need not worry about manually bleeding the compressed air whenever motor switches off eg: power failure. Compressor will bleed automatically and will start up smoothly whenever power is restored.



## Technical Specifications

Model	Motor power	Piston displacement		Free air delivery*	Stages	Compr. speed	Working Pressure		Tank Capacity	Cooling	Weight	Dimensions (LXBXH)	Air Outlet Port Size
	HP kW	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	rpm	Kg/cm <sup>2</sup>	psi	Ltrs.		Kg	mm	BSP Inches
HP 15 300	15 11	1.17	41.27	0.85	30	2 875	30	426	500	AC	740	1980 X 865 X 1405	3/4
HP 20 330S	20 15	1.53	54.00	1.09	38	2 1150	33	479	500	AC	780	1978 X 843 X 1464	3/4
HP 20 330S	20 15	1.53	54.00	1.09	38	2 1150	33	479	BM	AC	640	1463 X 775 X 865	3/4
HP 20 330 WC	20 15	1.54	54.26	1.08	38	2 1150	33	479	500	WC	780	1980 X 865 X 1405	3/4
HP 20 400S	20 15	1.47	51.96	1.05	37	3 850	40	569	BM	AC	500	1450 X 845 X 949	3/4 <b>NEW</b>

\*BM=Base Mounted, AC=Air Cooled, WC=Water Cooled

\*Free air delivery measured as per IS 5456

\*Standard model available with 415V, squirrel cage 3 Phase Induction motor with IP 55, Class F Protection and Star Delta Starter

\*The HP 20 330S air receiver mounted model alone is supplied with oil moisture separator.

\*Due to continuous engineering improvements, the technical specifications are subject to change without prior notice

### Disc Valves

Disc valves for suction and delivery ensure improved volumetric efficiency of compressor thereby preventing loss of compressed air.

### Starter Box

Starter box contain selector switch with provisions for continuous/intermittent operation of compressor according to plant load.



Base mounted unit

### Air Receiver

Built as per ASME standards to ensure safety of the PET blowing plant.

## Constant supply of compressed air at 40 bar

Ideal for blow moulding of soft drink bottles requiring constant supply of air at 40 bar for proper formation of the base. Suitable for embossing and etching patterns on bottles

## Accessories

### Oil Moisture Separator

Capacity	: 40 cfm
<b>Inlet conditions</b>	
Inlet Air Pressure	: 35 Kg/cm <sup>2</sup>
Relative Humidity	: 100 percent
Filtering Media Inlet	: Polypropylene
Filtering Media Outlet	: Activated
Carbon Candle	
Rating	: 5 micron
Inlet /Outlet Connection	: 3/4" BSP F
Drain 1/4"	: BSP Manual
Overall Dimensions	: 450 x 450 x 300m (lxbxh)mm

### Zero Oil Filter

Model	: ZOA 0057
Capacity	: 40 cfm
Inlet Pressure	: 42 Kg/cm <sup>2</sup>
Inlet Temperature	: 80 °C
Flow Rate	: 40 cfm
Inlet Dust Content	: 1 micron
Inlet Oil Content	: 0.1 ppm
Pressure Drop	: 0.1 Kg/cm <sup>2</sup>
Outlet Dirt Condition	: 0.01 micron
Outlet Oil Content	: 0.01 ppm
Inlet /Outlet Condition	: 1/2" BSP(F)
Filter Media	: Boro Silicate



\*Vertical air receivers available on request

### Drier

Model	: ELHD 40	: ELHD 85
Inlet Air Temperature	: 45 °C	: 45 °C
Inlet Air Pressure	: 35 Kg/cm <sup>2</sup>	: 35 Kg/cm <sup>2</sup>
Relative Humidity	: 100 percent	: 100 percent
Pressure Dew Point	: 2 to 4 °C	: 2 to 4 °C
Pressure Drop	: 0.2 Kg/cm <sup>2</sup>	: 0.2 Kg/cm <sup>2</sup>
Power	: 220V/50Hz/1	: 220V/50Hz/1
Air Inlet /Outlet Conn.	: 1/2" BSP (F)	: 1" NPT
Overall Dimensions	: 360 x 475 x 570 (L x B x H)mm	: 500 X 600 X 730 (L x B x H)mm

### Oil Removal Filter

Model	: ORF 0037
Capacity	: 40 cfm
Inlet Pressure	: 42 Kg/cm <sup>2</sup>
Inlet Temperature	: 70 °C
Flow Rate	: 40 cfm
Inlet Dust Content	: 5 micron
Inlet Oil Content	: 15 ppm
Pressure Drop	: 0.1 Kg/cm <sup>2</sup>
Outlet Dirt Condition	: 5 micron
Outlet Oil Content	: 3 ppm
Inlet /Outlet Condition	: 1/2" BSP(F)
Filter Media	: Polypropylene, Activated Carbon

### After Filter

Model	: AF 0037
Capacity	: 40 cfm
Inlet Pressure	: 42 Kg/cm <sup>2</sup>
Inlet Temperature	: 70 °C
Flow Rate	: 40 cfm
Inlet Dust Content	: 10 micron
Pressure Drop	: 0.1 Kg/cm <sup>2</sup>
Outlet Dirt Condition	: 5 micron
Inlet /Outlet Condition	: 1/2" BSP(F)
Filter Media	: Polypropylene

### Pre Filter

Model	: PF 0037
Capacity	: 40 cfm
Inlet Pressure	: 42 Kg/cm <sup>2</sup>
Inlet Temperature	: 70 °C
Flow Rate	: 40 cfm
Inlet Dust Content	: 25 micron
Pressure Drop	: 0.1 Kg/cm <sup>2</sup>
Outlet Dirt Condition	: 5 micron
Inlet /Outlet Condition	: 1/2" BSP(F)
Filter Media	: Polypropylene

### Water-cooled After Cooler



## AIR UP.

UPTIME™ comes standard on every ELGI Compressor



#### DESIGN

#### 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.



#### COMPONENTS

#### 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 an ELGI compressor is a quality part. From our proprietary air ends, to our use of leak-free hoses and piping.



#### ASSURANCE

#### UPTIME Assurance

Here is where we back our pledge, with industry-leading warranties, parts availability, loaner machines and call centers staffed by experts.

**ELGI**<sup>TM</sup>  
Elgi Equipments Ltd.

Singapur, Coimbatore-641005, India, Tel: +91-422-2589555  
Fax: +91-422-2573697 International Division: Fax: +91-422-2589401  
Email: enquiry@elgi.com Visit us at www.elgi.com

Manufacturing locations: China, France, India, Italy

Subsidiaries and offices : Australia, Bangladesh, Brazil, China, France, Indonesia, Italy, Sri Lanka, Thailand, UAE, USA

Toll free customer care number 1800 - 425 - 3544

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