



# ELGi Airmate Air Accessories

Total Compressed Air Solutions









# **A Tradition of Reliability**

ELGi, established in 1960, designs and manufactures a wide range of air compressors. The company has gained its reputation for design and manufacture of screw compressors through strategic partnerships and continuous research and development. Over the years, it has emerged as a multi-product, multi-market enterprise providing total compressed air solutions in all segments. ELGi's design capabilities translated into a wide range of products ranging from oil-lubricated and oil-free rotary screw compressors, reciprocating compressors and centrifugal compressors. ELGi has its own manufacturing operations in India, Italy and USA with subsidiaries in Australia, Brazil, UAE and Indonesia. The company is fast expanding its global footprint attracting distributors and customers with its latest generation products.



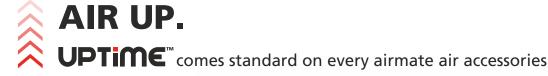
### **Robust Infrastructure**

ELGi has modern manufacturing facilities equipped with advanced high precision grinding machines, turning centres and CNC horizontal and vertical machining centres. Screw airends are manufactured with the latest rotor grinding technology, coupled with measurement technology to maintain precise manufacturing tolerances. ELGi's manufacturing plants are both ISO and EOHS certified. The products are manufactured under controlled environment to ensure that its quality continues to meet the highest standards.



# **Innovative Technology**

Screw Compressor elements are manufactured in-house using state-of-the-art machining centres for rotor grinding and machining castings of various sizes. ELGi's own eta-V profile rotors ensure energy-efficient compressed air supply for all demanding applications. ELGi is one of the few companies capable of manufacturing wide range of airends and compressor packages in the world. ELGi's patent portfolio is a testament to the company's continuous research and innovation capability





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. From our proprietary air ends, to our use of leak-free hoses and piping.



#### **UPTIME Assurance**

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

# Prevent Real Life Problems with Elgi Airmate Refrigeration Air Dryers and Filters





Real life problem 1 Unwanted Abrasive Sludge



Real life problem 2 Corrosion of Piping



Real life problem 3
Damaged Pneumatic Tools

#### Why do we need to dry the air?

When atmospheric air cools down, as happens following a compressor compression process, water vapour precipitates as condensate. This is the form of water that is naturally present in the air we breathe. Under average conditions, a compressor with a capacity of 3 m³/min at 7.5 bar will generate approximately 40 litres of water per day. This condensate needs to be removed from the compressed air system to prevent corrosion and damage to transmission piping and end use machines. Compressed air drying is hence essential and is an important part of air treatment process.

Compressed air will also contain water, dirt, wear particles, bacteria and even degraded lubricating oil. All these impurities mix together to form an abrasive sludge. This sludge is often acidic and accelerates wear and tear of tools, pneumatic machinery, block valves and orifices. This results in costly air leaks and high maintenance. It also corrodes pipes and can bring production process to a standstill.

Only compressed air that is totally clean and dry will ensure reliable working of compressed air systems and maximum savings. The favoured method of drying the compressed air is through refrigeration dryers.

Elgi offers a reliable solution through Elgi Airmate Refrigerant Air Dryers. The dryers ensure longer life of compressed air systems through efficient removal of the condensate and contaminants.

# **Total Air Cure Solutions for clean and dry air**

Ambient air of 3m³/min at 35°C with 60% RH contains 82 litres of water / day

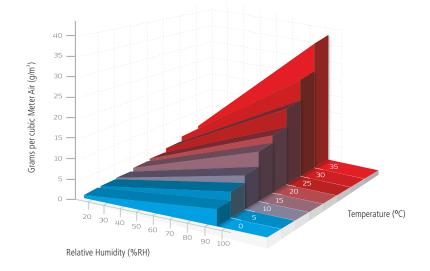


Compression ratio 1:10 working volume of 0.3m³/min at 45°C will precipitate 61 litres of water/day & get removed by the moisture separator



Elgi Airmate Refrigerant Dryer and Filter wiil remove 19 to 20 litres of water / day













Adding value to the Elgi Compressor range **Elgi Air Accessories** 

## **Cycle controller**

The pressure operated 100% modulating cycle controller provides a quicker and reliable response to the inlet air temperature. It ensures optimum dew point control under all operating conditions. It is primarily used to prevent freezing phenomenon in the evaporator. Mechanical type cycle controller is used in the higher flow models and solenoid operated cycle controller is used in lower flow models.





#### **Controller**

The use of microprocessor based controller ensures higher performance reliability of the drier. The controller indicates the pressure dew point for online monitoring. Setting options for controlling the cycle controller and automatic drain valves are provided.

# **Refrigeration compressor**

Hermetically sealed and highly energy efficient reciprocating piston compressor ensures effective compression of the refrigerant for drying the compressed air.





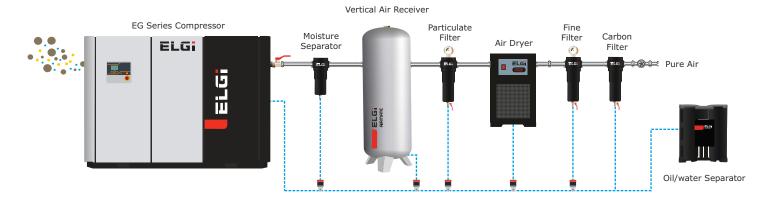
#### Condenser

Highly efficient copper tubed Aluminum finned condenser. The hot and high pressure refrigerant enters into the condenser in gaseous state and gets cooled through the forced circulation of cold air using a fan and flows to the expansion valve in liquid state



### **Installation of Air Accessories**

#### **Compressed Air Supply System**





### **Capillary/Expansion Device**

Use of capillary refrigerant expander or mechanical expansion device prior to the heat exchanger ensures that the refrigerant flow into the evaporator is only in the liquid state. High quality copper ensures minimum due point fluctuation and maximum heat transfer efficiency between compressed air and refrigerant.







### **Heat exchanger**

High efficiency 'tube in tube' heat exchanger. The high quality copper tube ensures maximum heat transfer efficiency, corrosion resistance and minimum pressure drop. The heat exchanger is filled with PUF for better insulation and efficiency. It performs the function of both pre-cooler and evaporator.

### **Condensate drain**

High reliability automatic condensate drain ensures maximum condensate removal form the system. The drain is solenoid controlled and the timings of moisture draining can be set by the user using the microprocessor based controller. This controllable feature ensures reliable moisture cured air even at high humid and tropical conditions.



# **Airmate Refrigeration Air Dryer**

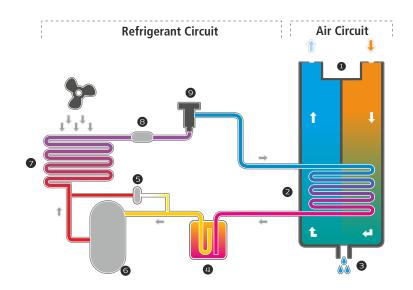




### **Ozone-friendly refrigerant**

Elgi thinks long run to make the earth and the environment a safer and a better place to live. As per international protocol, Elgi uses ozone-friendly R 134A gas as the refrigerant which has zero ozone-depletion potential.

# **ELGI Refrigeration Air dryer Schematic diagram**



Refrigerant gas / Liquid

Refrigerant gas

Hot refrigerant gas

Cold refrigerant liquid

Expanded refrigerant liquid

Air - to heat exchanger

2 Air - to - refrigerant heat exchanger

Incoming hot wet air

Cool wet air

Outgoing dry air

Integrated water separator

Liquid separator

S Regulation device

**6** Refrigerant compressor

Refrigerant condenser

Refrigerant filter

Thermostatic expansion valve

	FI	ow	Max Pressure	El	ectrical		Dime	ensions i	n mm	Weight	Cooling
Model	cfm	m³/min	bar g	Volts	Hz	phase	length	breadth	height	Kg	media
ELRD 010	10	0.28	16	230	50	Single	360	475	570	45	Air
ELRD 020	20	0.57	16	230	50	Single	360	475	570	45	Air
ELRD 030	30	0.85	16	230	50	Single	360	475	570	47	Air
ELRD 040	40	1.13	16	230	50	Single	360	475	570	47	Air
ELRD 050	50	1.42	16	230	50	Single	500	600	735	84	Air
ELRD 080	80	2.27	16	230	50	Single	500	600	735	84	Air
ELRD 100	100	2.83	16	230	50	Single	600	800	850	121	Air
ELRD 150	150	4.25	16	415	50	Three	600	800	850	135	Air
ELRD 200	200	5.66	16	415	50	Three	600	800	850	135	Air
ELRD 300	300	8.50	16	415	50	Three	800	900	1150	200	Air
ELRD 400	400	11.33	16	415	50	Three	800	900	1150	250	Air
ELRD 500	500	14.16	16	415	50	Three	800	1000	1350	250	Air
ELRD 600	600	16.99	16	415	50	Three	800	1000	1350	275	Air
ELRD 750	750	21.24	16	415	50	Three	900	1200	1475	375	Air
ELRD 900	900	25.48	16	415	50	Three	900	1200	1725	425	Air/ Water
ELRD 1100	1100	31.15	16	415	50	Three	900	1200	1725	425	Air/ Water
ELRD 1254	1254	35.51	16	415	50	Three	900	1200	1725	1000	Air/Water
ELRD 1552	1552	43.95	12.5	415	50	Three	1300	1800	1650	1200	Air/Water
ELRD 1750	1750	49.55	12.5	415	50	Three	1300	1800	1650	1500	Air/Water
ELRD 2000	2000	56.63	12.5	415	50	Three	1300	1800	1900	1600	Air/Water

Performance data is measured at 7 bar, inlet temperature 45°C, ambient temperature 35°C, pressure dew point +3°C

Customized models are available on request

Dryers of higher capacities are also available

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

#### **Correction factors**

Inlet temp.	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C
factor	1.22	1.20	1.15	1.05	1	0.85	0.8	0.7

Ambient temp.	20°C	25°C	30°C	35°C	40°C	45 °C	50°C
factor	1.20	1.14	1.10	1	0.91	0.87	0.78

Working Pressure	4 bar g	5 bar g	6 bar g	7 bar g	8 bar g	9 bar g	10 bar g	11 bar g
factor	0.75	0.85	0.93	1	1.06	1.11	1.15	1.18

# **Airmate Desiccant Dryer**



Make your end products more reliable, last longer and work harder with the ELGi Assurance of Pure & Dry Air. Because the quality of your end product can make your business more consistent

Specification	
Max. Working Pressure	16 kg / cm²
Air Inlet Condition	Maximum Fluid Temp. 45°C
Pre-filter Rating	0.3 Microns (Coalescer)
Cycle Time	4 Minutes
Regeneration Volume	10%
Air Outlet Condition	Dry air at -40°C Dew Point
Operating Voltage	85 - 265 V 50 / 60 hz 1 Ph

### **Key Features**

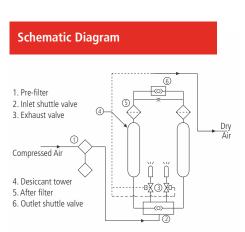
- Microprocessor based controller for accurate and trouble free operation, skid mounted and therefore can be easily moved
- coalescing filter with automatic drain valve ensures efficient pre-filtration
- Shuttle valves for low-pressure drop
- All aluminium drying towers resist oxidation and scale formation for a long period of time
- Elgi Desiccant Dryer offers total cleaning solution for lubricated as well as non-lubricated compressed air

### **Principle of Operation**

**Drying Cycle:** Moist air from the compressor is sent through the coalescing filter. Here water & oil coalesces, gets purged through the auto drain valve. The relatively clean air with water vapour passes through the aluminum drying tower filled with desiccant gets completely dried (upto -40°C dew point) and then passes through a built in after filter. The desiccant fines from the towers are completely removed and clean dry air is let out through the outlet port for use.

**Regeneration Cycle:** During the regeneration cycle. The sudden depressurization brings out water molecules trapped in the Desiccant pores to the surface of the beads. A small portion dry compressed air from the drying tower then passes over the desiccant through the regeneration orifice built in the Top Block. This results in complete regeneration of the Desiccant.

Model <sup>#</sup>	Flow	End Connection	[	Dimensions (m	m)	Weight
Widdel	scfm **	BSP	Н	W	D	Kgs
HLD 1X	10	1/2"	675	335	280	11
HLD 2X	20	1/2"	106	335	280	16
HLD 3X	30	1/2"	880	420	181	28
HLD 5X	45	1/2"	1110	420	181	34
HLD 8X	75	1"	1192	523	313	61
HLD 10X	100	1"	1603	439	372	106
HLD 13X	125	1"	1913	439	372	119
HLD 20X	200	11/2"	1615	449	582	214
HLD 25X	250	11/2"	1925	449	582	238
HLD 30X	300	2"	1615	457	764	256
HLD 38X	375	2"	1925	457	764	286



Due to continuous engineering improvements, specifications are subject to change.

Sizes above 400 cfm available on request

#### **Inlet Pressure Correction Factor**

bar (g)	4.1	5.5	6.9	8.3	9.7	11	12.4
F actor	0.65	0.83	1	1.18	1.37	1.52	1.7

#### **Temperature Correction Factor**

°C	32	35	40	45	50
Factor	1.55	1.33	1.15	1.00	0.74

# Airmate Air Receiver



The Elgi Air Receiver is engineered to handle the stress of fluctuating air demands, reduce wear and tear and increase the life of the end use equipment.

Model	Сара	acity	Max Working Pressure	Dimen	sions (m)
	ltr.	m³	bar g	Height	Dia.
VA 00 010	250	0.25	12.5	1745	500
VA 00 020	500	0.5	7	2060	600
VA 00 020	500	0.5	10	2060	600
VA 00 020	500	0.5	12.5	2010	622
VA 00 030	750	0.75	12.5	2095	752
VA 00 040	1000	1	7	2700	750
VA 00 040	1000	1	10	2700	750
VA 00 040	1000	1	12.5	2700	750
VA 00 060	1500	1.5	7	2510	996
VA 00 060	1500	1.5	10	2510	996
VA 00 060	1500	1.5	12.5	2520	1020
VA 00 080	2000	2	7	3185	1000
VA 00 080	2000	2	10	3185	1000
VA 00 080	2000	2	12.5	3185	1000
VA 00 120	3000	3	7	2995	1310
VA 00 120	3000	3	10	2995	1310
VA 00 120	3000	3	12.5	2815	1314
VA 00 160	4000	4	12.5	3590	1314
VA 00 200	5000	5	12.5	3545	1500

Dimensions are approximate
Air receivers of higher capacities are available on request

Air receivers are made as per ASME section VIII Div 1 / IS 2825. Consult Marketing for specific certification requirements. Level sensing auto drains are also available

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# **Airmate Filters**

#### Alocrom aluminium treatment

The Alocrom aluminium treatment is a special feature of all Elgi Airmate die-cast filter housings. This treatment ensures there is no corrosion and no carry over of corroded particles into the airline, which can otherwise cause blockades in sophisticated parts.



#### TYPE PF

**High efficiency General Purpose** Protection: For the removal of particles down to 1 micron including coalesced liquid water and oil, providing a maximum remaining oil aerosol content of 0.5 mg/m<sup>3</sup> @ 21°C.



#### TYPE FF

**High Efficiency Oil Removal Filtration:** For the removal of particles down to 0.01 micron including water and oil aerosols, providing a maximum remaining oil aerosol content of 0.01 mg/m³@ 21°C. (Precede type FF with type PF)





#### TYPE CF

Activated Carbon Filtration: For the removal of oil vapour and hydrocarbon odour giving a maximum remaining oil content of <0.003 mg/m<sup>3</sup>(<0.003 ppm) (excluding methane) @ 21°C. (Precede type CF with type FF & PF)

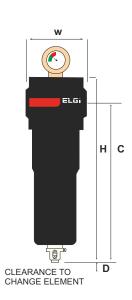


Filter type Economy Filter size

PF - PreFilter FF - Fine Filter CF - Carbon Filter

# **Economy Series Filters**

Filter Type	End	Flow	rates		Dimensio	ons (mm)		Weight
(PF,FF,CF)	Connections	@/ bar g	(100 psi g) <b>m</b> ³/ <b>h</b>	Н	W	C	D	(kg)
(Filter Type)E 0018	G 3/8	18	31	275	70	180	75	1.2
(Filter Type)E 0035	G 3/8	35	59	315	80	215	90	1.3
(Filter Type)E 0053	G 1/2	53	90	315	80	215	120	1.5
(Filter Type)E 0070	G 1/2	70	119	350	95	235	120	1.6
(Filter Type)E 0105	G 3/4	105	178	350	95	235	150	1.8
(Filter Type)E 0125	G 1	125	212	420	110	295	150	1.8
(Filter Type)E 0160	G 1	160	272	420	110	295	150	2.5
(Filter Type)E 0210	G 1 1/4	210	357	420	110	295	200	2.7
(Filter Type)E 0280	G 1 1/2	280	476	575	150	405	200	5
(Filter Type)E 0420	G 2	420	714	575	150	405	280	6
(Filter Type)E 0620	G 2	620	1053	1015	280	830	450	28
(Filter Type)E 0840	G 2 1/2	840	1427	1015	280	830	580	33
(Filter Type)E 1120	G 3	1120	1903	1315	320	1120	850	40
(Filter Type)E 1700	G 4	1700	2888	1100	410	710	580	80
(Filter Type)E 2540	G 4	2540	4315	1100	410	810	580	80
(Filter Type)E 3300	G 4	3300	5607	1370	410	1140	850	90



0018 - 0620 : Threaded end connection with manual drain 0840 - 3300 : Flanged end connection with manual drain

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

Technical Data				
Maximum operating pressure (0020 to 2120) with Autodrain	16 bar g (232 psi g)	Max. recommended operating temperature 30°C (86°F)	Initial 'dry' differential pressure	Initial 'wet' differential pressure
Maximum operating pressure (0020 to 2120) with manual drain	20 bar g (290 psi g)	(Type CF)  Min. recommended 1.5°C (35°F)	Type PF - 70m bar (1.0 psi) Type FF - 100m bar (1.5 psi) Type CF - 70m bar (1.0 psi)	Type PF - 140m bar (2.0 psi) Type FF - 200m bar (3.0 psi) Type CF - N/A
Maximum recommended operating temperature (Type PF/FF)	66°C (150°F)		Maximum recommended press element change: (PF, FF filters o	

### For Flow Rates at other pressures, apply the factor shown

Line	bar g	1	2	3	5	7	9	11	13	15	17	20
Pressure	psi g	15	29	44	73	100	131	160	189	218	247	290
Correction Factor		0.38	0.53	0.65	0.85	1.0	1.13	1.25	1.36	1.46	1.56	1.7

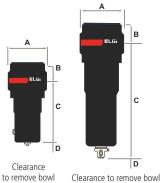
The CF Filter will not remove CO/COor other toxic gases or fumes.

# **Airmate Moisture Separator**



Maximum operating pressure: Maximum recommended operating temperature: Minimum recommended operating temperature: Typical pressure differential at rated flow: 16 bar g (232 psi g) 66°C (150°F) 1.5°C (35°F) 20 - 60 m bar (0.3 - 0.9 psi)

Line Pressure	bar g	1	3	5	7	9	11	13	15	16
	psi g	15	44	73	100	131	160	189	218	232
Correction Factor		0.5	0.71	0.87	1.0	1.12	1.22	1.32	1.41	1.56



Model*	Inlet/Outlet Connections	Flow @ 7 bar g	Dime	Weight				
wodei"		cfm	m <sup>†</sup> min	Α	В	С	D	Kg
MS100	G1/2	100	2.83	95	21	236	130	1.25
MS150	G 3/4	150	4.25	95	21	236	130	1.25
MS365	G1½	365	10.34	122	33	267	180	2.80

<sup>\*</sup> For NPT connections suffix Model No. with NPT Larger sizes on request

# **Airmate Drain Valves**

### "Zero loss advantage"

Compressed air condenses moisture in dryers, after-coolers and air receivers. This condensate needs to be removed frequently. This process is done by the drain valves. In ordinary drains, there is always loss of compressed air. Most of the condensate drains have a 4 mm orifice. This 4 mm orifice bleeds about 34 cfm, which is the equivalent of 6.5 kw of power. Elgi airmate drains work on the principle of zero air loss and do not bleed your compressed air, consequently saving energy.

#### **Technical Specifications**

Capacity : 50 to 2000 cfm Working pressure : 16 bar g max Media : Condensate

#### Compact Timer Drain Valve



The controller is built with ultra reliable microcontroller with dual adjustment of both both cylce and drains for added flexibility of use. The valve has large orifice and special solenoid operator section to discharge dust.

- Easy to mount at all location
- Maintain and clean drain valve without removing from service
- Adjustable on and off timing
- Large orifice for effective drain of dust and condensate
- Condensate discharging is no problem

### Level Sensing Drain Valve



The condensate sensing type automatic drain valve is the latest advancement in drain valve technology. Instead of operating through cycle timer, these valves sense the condensate level for activation, ensuring absolutely no loss of compressed air and hence enormous energy saving. These drain valves are highly efficient and reliable. They can be fitted directly on the equipment simply by replacing the manual drains.

- The electronic level control ensures proper draining of condensate and avoids unnecessary loss of air.
- All the functions of the valve are accurately indicated by the LED display.
- Test switch (or) manual drain allows function test at anytime.
- Intelligent Controller detects valve, probe failure and acts accordingly.
- Noise free, as air is not discharged.

# **Energy Saving Solutions**



# **Energy saving - The CONSERVE way**

**CONSERVE**Variable Frequency Drives(VFD)

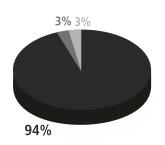
ELGI CONSERVE drives match output with demand by varying motor speed. the power consumption reduces in line with the reduction in demand. Helps in eliminating the frequent load-unload cycle and the also the wasted power from the energy bill.

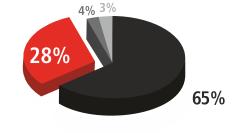
A fixed speed compressor operates on a load-unload band of atleast 10 psi around the working pressure whereas with ELGI VFD, compressor can be operated within a band of 2 psi. Since compressors are not operated under higher than working pressure requirements, there is substantial energy saving. For every 2 psi reduction in operating pressure, there is 1% power saving.

In a fixed speed compressor with Star-Delta starter, starting current is as high as three times the full load current(FLC). With Elgi VFD starting, starting current is as high as three times the full load current (FLC). This helps to avoid using heavy rated components like fuses, MCCB, cable size, generator rating, isolators etc.

For compressed air systems with fluctuating demand pattern, return on investment due to power saving will be less than 12 months

# 10 Year Life Cycle Cost





Compressor with CONSERVE

Compressor without VFD

■ Electricity■ VFD Saving■ Equipment■ Maintenance

# Electrical

Low starting current High efficiency Improved power factor Reduced maximum demand

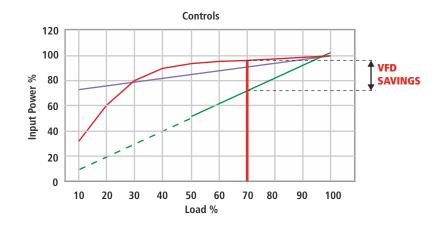
**Advantages** 

Mechanical

Smooth start Smooth control

Minimum maintenance

Model	Compatible Compressor Model
ELVD 11-ELVD 75	E11-75 & EE75
ELVD 90	E90 & EE90
ELVD 110	E110 & EE110
ELVD132	E132 & EE132
ELVD 160	E160 & EE160
ELVD 200	E200
ELVD 250	E250



**Example: For a demand of 70 % of full load, the savings from Elgi Conserve compared to a fixed speed** compressor will be about 28% of full load power



# Compressed air solutions for all sustainable air needs



**Oil-Free Series Screw** 90 - 450 kW / 480 - 2515 cfm



**EG Series Rotary Screw** 11 - 250 kW / 47 - 1612 cfm



**EN Series Rotary Screw** 2.2 - 75 kW / 8.0 - 469 cfm



Electric Portable (Trolley) 22 - 75 kW / 131 - 490 cfm



**Diesel portable (Trolley)** 185 - 1100 cfm / 100 - 300 psi



**Diesel Portable (Skid)** 475 - 1500 cfm / 150 - 400 psi



**Oil-free Recip** 1.0 - 75 HP / 1.8 - 300 cfm



Oil-lubricated Recip 1.0 - 40 HP / 2.0 - 128 cfm

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