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DETROIT AIR

COMPRESSED AIR INNOVATION THROUGH TECHNOLOGY

PRODUCT CATALOGUE

PISTON COMPRESSORS



PISTON COMPRESSORS

Built old-school tough, the Detroit Air range of Reciprocating Piston Air Compressors is designed to work hard and give years of service in harsh operating conditions. DIY models are available for light workloads from 1.5HP - 3HP in 8 bar max. pressures. Heavy-duty, full industrial models are available from 3HP - 20HP with a max. pressure rating of 12,5 bar. The foundations of Detroit Air were firmly established in the marketplace with this range of machines and quickly developed a reputation for excellent value and durability. Over the years, as technology and manufacturing processes have developed and improved, these models have been tweaked to provide even longer service life and improved efficiency.

Constant improvements over the years have ensured market growth and recognition of the benefits Detroit Air offers to the marketplace with a world-class product. Putting the client's needs first have ensured a strong client support system is in place with a solid warranty to give peace of mind.

All Detroit Air Reciprocating Piston Compressors are manufactured under ISO protocols and conform to local laws for pressure vessel requirements. CE standards ensure compliance of manufacturing processes that meet world standards and result in world-class machinery.

- ✦ **DIRECT DRIVE**
- ✦ **8 BAR SINGLE-STAGE**
- ✦ **12.5 BAR TWO-STAGE**
- ✦ **REPLACEMENT PUMPS**



HEAVY-DUTY CONSTRUCTION

Large displacement two- and three-cylinder configurations are used to ensure low RPM and heat. Reducing RPM and heat provides the benefit of lower noise levels and longer service life.

Efficient valve design is key to simple maintenance and repair processes. Keeping maintenance costs and repair times to a minimum is always essential for clients. With a simple, yet very efficient valve structure, service life is long and repair costs and time are kept to a minimum.

Reliable switch gear is used on the entire range of Reciprocating Piston Compressor models. The time-tested Lefoo pressure switch is able to provide years of trouble-free service at a fraction of the cost one may expect. Schneider direct-online-starter systems, with built-in high current protection, provide both motor protection and performance stability to the electric motor and are capable of trouble-free service in harsh conditions.

AESTHETIC APPEAL

Quality paintwork is essential to corrosion prevention; powder coating of pressure vessels provide good protection against corrosion and gives the machine an excellent finish. All powder coating is done to European standards with a textured finish which is aesthetically pleasing. Data presentation on the machine is comprehensive and various data plates are used to provide information such as serial number, date of manufacture, weight, dimensions, air delivery, electrical requirements and design codes. Artwork provides information aimed at the consumer for quick reference to the machine's configuration, pressure and air delivery.

MARKETING

Although we believe that engineering and manufacturing processes are core to high-quality products, we also understand that clients no longer accept outdated and poorly presented machinery. Marketing is core to any brand, and as such, we have provided a manufacturing process that takes into account and encompasses a product that has a relevant design language and looks attractive and well-balanced. Attention to detail is essential and considerable effort and research have been put into ensuring an aesthetically pleasing product is put to market. Careful selection of colour combinations, design of artworks, paint and paint texture and information presentation showcase the products' high level of quality through excellent engineering.





OIL FREE VARIABLE SPEED



QUALITY DIY MODELS

Oil free applications have become more and more common place in the compressed air industry. This model has been developed with that specifically in mind. Scope of use covers dental, medical, lab and instrument quality air. This machine is virtually maintenance free and requires only minimal effort to maintain and service.

READY TO RUN

Variable Speed Drive systems are used to conserve energy and reduce power costs. We have designed the model with a Permanent Magnetic Motor structure and a variable speed drive to increase energy efficiency. The VSD also means that start-up load is greatly reduced benefiting users with UPS or back-up generators installed.

MODEL		V-0.045/8-24L	V-0.045/8-24L	V-0.1/8-50L	V-0.15/8-50L
MOTOR POWER	HP / kW	0825	1.1	1.5	1.8
PISTON (ØxNo.)	MM	64	64	64	64
TRAVEL	MM	21	21	21	21
AIR DELIVERY	CFM	1.6/45	2.3/67	3.5/100	5.3/150
PRESSURE	BAR	8/0.8	8/0.8	8/0.8	8/0.8
TANK	L	24	24	50	50
PACKING LxWxH	CM	730x400x700	730x400x700	730x400x700	730x400x700
N.W	Kg	25	25	39	39
QUANTITY	20"GP	130	130	130	130
	40"GP	270	270	270	270
	40"HQ	300	300	300	300





DIRECT DRIVE



QUALITY DIY MODELS

The DIY Direct Drive Air Compressor range works excellently for small air volume requirements. DIY machines are designed to be light, portable, and easy to operate, making utilisation a simple and hassle-free process. Careful design ensures high efficiency and good maintainability helping prolong the machine's working life, resulting in less overall spend for the customer.

READY TO RUN

The Detroit Air Direct Drive Air Compressor comes with an induction motor complete with overload protection to keep the machine running smoothly throughout use. Additionally, our variants are available in single-phase 100V, 110V, 115V, 220V, 230V, and 240V from 1.5HP up to 3HP twin-cylinder.

MODEL		ZB-0.08/8	ZB-0.1/8	ZB-0.12/8	DD-0.3/8
MOTOR POWER	HP / kW	1.0 / 0.75	1.5 / 1.1	2.5 / 1.5	2.2 / 3
PISTON (ØxNo.)	MM	42 x 1	42 x 1	47 x 1	47 x 2
TRAVEL	MM	36	38	38	38
AIR DELIVERY	CFM	2.8	2.8	4.2	10
PRESSURE	BAR	8	8	8	8
TANK	L	6	24	50	90
PACKING LxWxH	CM	47 x 21 x 47	54 x 22 x 50	59 x 29 x 63	110 x 29 x 63
N.W	Kg	16.5	16.5	28	55
QUANTITY	20"GP	628	484	252	126
	40"GP	1420	984	519	259
	40"HQ	2150	1120	620	310





8 BAR SINGLE-STAGE



QUALITY INDUSTRIAL MODELS

The Single-Stage Air-Cooled Stationary Belt-Drive Compressor range is a full industrial heavy-duty series. It employs a low RPM, multi-cylinder, cast iron pump configuration using SKF bearings to ensure a longer service life; low oil consumption, low noise and good heat dissipation are part of the design.

BUILT TO LAST

The advanced machining process employed in manufacturing ensures excellent quality and efficiency. The Detroit Air range of Belt-Driven Compressors are built to last and deliver exceptional value and quality in a range of sizes to suit your requirements.

MODEL		V-0.17/8	V-0.25/8	W-0.36/8	V-0.48/8	W-0.67/8	W-0.9/8	W-1.25/8	W-1.5/8	W-2.0/8	W-3.0/10
HP/KW		2/1.5	3/2.2	4/3	5.5/4	7.5/5.5	10/7.5	10/7.5	15/11	20/15	30/22
RPM		950	950	1085	847	924	930	708	749	725	745
FAD/ RATED PRESSURE	M ³ /MIN	0.17	0.25	0.36	0.48	0.67	0.9	1.25	1.5	2.0	3.0
	MPa	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	CFM	6.0	8.8	12.7	17.0	23.7	32	44.2	53.0	70.7	106.0
	PSI	116	116	116	116	116	116	116	116	116	116
PISTON DIMENSIONS	MM	51x2	65x2	65x3	90x2	80x3	90x3	100x3	100x3	120x3	15x3
RECEIVER	Ltrs	90	100 / 150 / 200	200	200	270	270	360	400	400	500
VOLTAGE	50Hz	220	220	380	380	380	380	380	380	380	380
PACKING CM	L	108	115x48x86 / 152x55x87 / 160x55x99	160	160	169	179	185	188	188	192
	W	46		55	55	70	63	76	77	82	85
	H	86		107	99	114	120	121	135	141	150
WEIGHT	Kg	83	75 / 95 / 123	133	183	214	230	370	430	490	950





12.5 BAR TWO-STAGE



QUALITY INDUSTRIAL MODELS

The Two-Stage Air-Cooled Stationary Belt-Drive Compressor range is a full industrial heavy-duty series. It employs a low RPM, multi-cylinder, cast iron pump configuration using SKF bearings to ensure a longer service life; low oil consumption, low noise and good heat dissipation are part of the design.

BUILT TO LAST

The advanced machining process employed in manufacturing ensures excellent quality and efficiency. The Detroit Air range of Belt-Driven Compressors are built to last and deliver exceptional value and quality in a range of sizes to suit your requirements.

MODEL		W-0.3/12.5	V-0.4/12.5	W-0.6/12.5	W-0.8/12.5	W-1.1/12.5	W-1.5/12.5
HP/kW		4/3	5.5/4	7.5/5.5	10/7.5	15/11	20/15
RPM		1085	847	924	824	749	725
FAD/RATED PRESSURE	M ³ /MIN	0.3	0.4	0.6	0.8	1.1	1.5
	MPa	1.25	1.25	1.25	1.25	1.25	1.25
	CFM	10.6	14.1	21.2	28.3	38.9	53.0
	PSI	179	179	179	179	179	179
PISTON DIMENSIONS	MM	65 x 2/51 x 1	90 x 1/65 x 1	80 x 2/65 x 1	90 x 2/80 x 1	100 x 3	120 x 3
RECEIVER	Ltrs	200	200	270	270	400	400
VOLTAGE	50Hz	380	380	380	380	380	380
PACKING CM	L	152	160	169	179	188	188
	W	62	55	71	63	77	77
	H	88	99	114	120	135	135
WEIGHT	Kg	134	189	222	262	450	560





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