

5 to 30HP

Distributed by:

CENTRAIR Air Systems & Supplies

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HDI SERIES 5HP TO 30HP RECIPROCATING AIR COMPRESSORS

- › **Rugged & Reliable**
Ideal for Demanding Industrial Environments
- › **Pressure-Lubricated, Cast-Iron Pumps**
High Duty Cycle Operation
- › **Slow Compressor Pump RPM**
Long-Lasting Operation
- › **Deep-Finned Cast-Iron Castings**
Enhanced Heat Dissipation
- › **7 Year Extended Warranty**
Rugged Construction & Long Life



DV Systems. Built Better.



HDI SERIES 5HP TO 30HP HEAVY DUTY INDUSTRIAL AIR COMPRESSORS



BALANCED PISTONS

Heat treated and stress relieved connecting rods are cast from ductile iron for strength and long life. High pressure pistons are made from solid cast iron to withstand extreme forces while the low pressure pistons are made from aluminum alloy. The tin-plated compression rings are designed to work in concert with the oil control rings and scraper.

BABBITT BEARINGS

Reduces wear on crankshaft.

SOLID CAST IRON CYLINDERS

Solid cast iron minimizes distortion from assembly torque and heat. Precision-machined cylinder walls are honed to reduce friction and minimize oil carry over. Extra-deep fins provide increased cooling and greater strength.

BALL BEARINGS

Assuring an exceptionally free-running crankshaft, heavy load capacity ball bearings used in DV Systems outfits are lubricated from the crankcase and require no maintenance.

LOAD-FREE STARTING

Many DV Systems air compressors are equipped with a centrifugal pressure release which allows the motor to start before a pressure load is applied to the pump.

BUILT BETTER

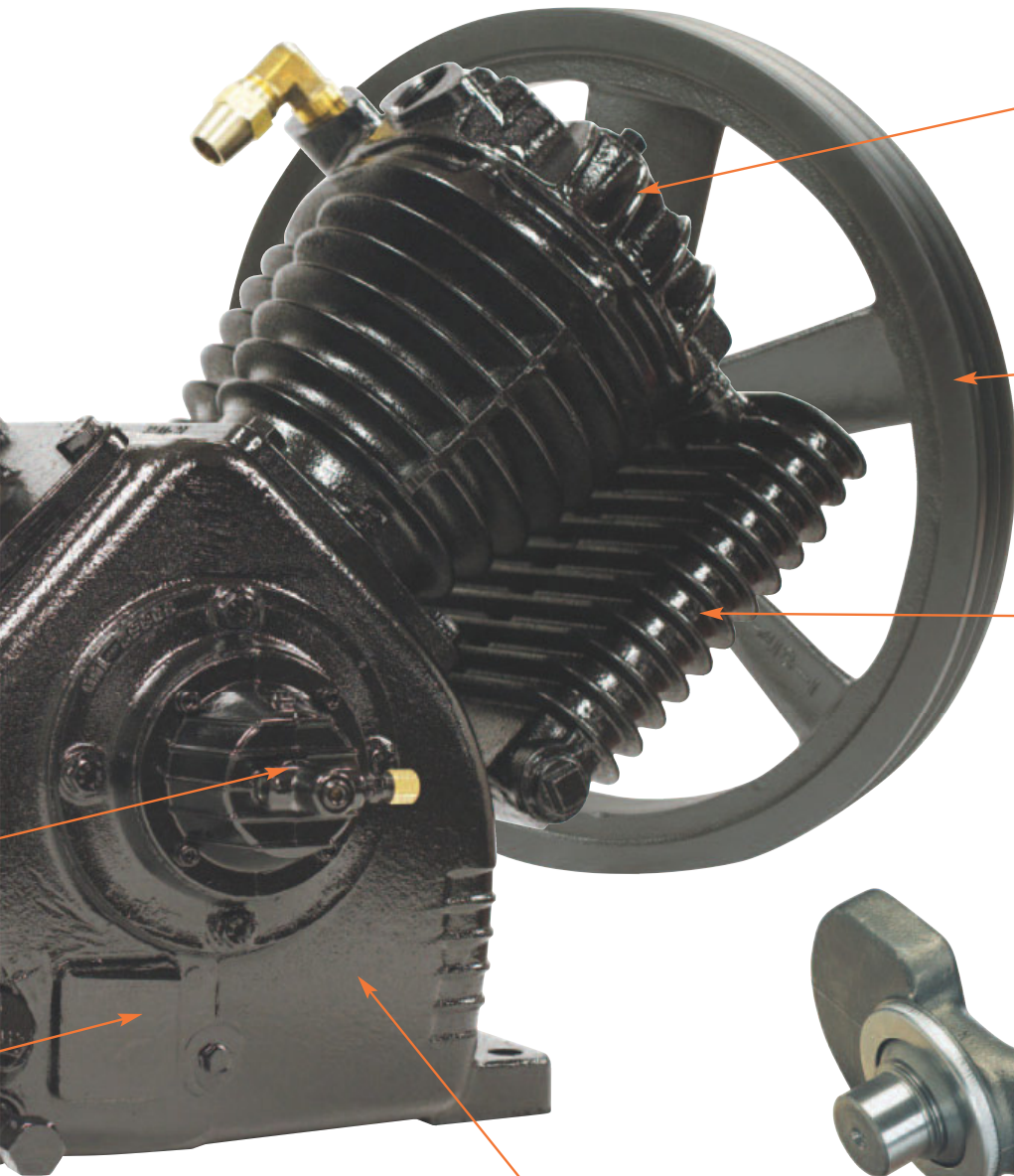
Manufactured in Canada, since 1954

All moving components of the 247/447 are machined, honed, balanced and assembled in Barrie, Ontario. Once assembled, each unit is factory tested twice under industrial conditions to ensure it meets our exacting operational standards. Rugged construction and long life allows DV Systems to confidently offer an unprecedented **7 Year Extended Warranty**.



QUIET, QUICK-ACTING VALVES

Machined carbon steel valves balance air passages and structural integrity, for maximum airflow and dependability. Hardened carbon steel valve guides complement the stainless steel Valve Discs and Springs.



COOL CYLINDER HEAD

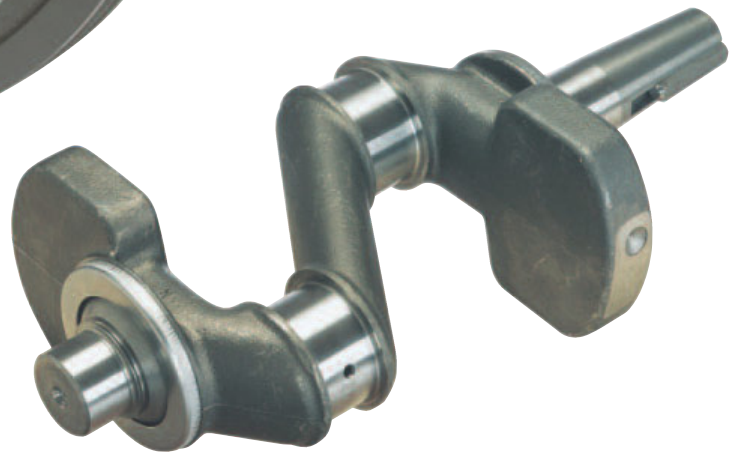
Deep directional fins provide quick cooling; compact streamlined air passages in the cylinder head allow a fast, efficient flow of cooler intake air and rapid removal of exhaust.

BALANCED FAN-TYPE FLYWHEEL

Airfoil-type spokes provide a continuous powerful blast of cooling air for all portions of the compressors. Balanced, it assures smooth, vibrationless operation.

DEEP-FINNED CAST-IRON INTER-COOLERS

Reliable deep-finned cast-iron intercoolers provide superior cooling between compression stages, enhancing heat dissipation.



SHORT STROKE DESIGN

The combination of large bore, short stroke and slow operating speeds improves life expectancy and provides high air delivery.

BALANCED CRANKSHAFT

The crankshaft, with integral counter weights, is balanced to ensure longer life and smooth operation. Journals are precision ground and furnished with inserts for long trouble free life. The crankshaft is drilled and ported to allow centrifugal force to carry oil to bearing surfaces. Babbitt bearing inserts further ensure balanced operation.



HDI SERIES 5HP TO 30HP HEAVY DUTY INDUSTRIAL AIR COMPRESSORS

The Air-Cooled, Pressure-Lubricated, Reciprocating Heavy Duty Industrial Series is engineered to provide a Heavy-Duty, Durable and Dependable Air Compressor built to withstand the most demanding industrial environments.

Available in both Simplex & Duplex configurations, The HDI Series 5HP to 30HP is equipped with 2-Stage, 2-cylinder (247) or 4-cylinder (447) cast-iron compressor pumps powered by high-efficiency North American made open drip proof (ODP) motors, providing reliable, high duty-cycle operation.

The heavily weighted cast iron pumps and Low RPM enhance heat dissipation and enable up to a 75-80% duty cycle. Pressure lubrication ensures oil is delivered to journal bearings and all necessary components, minimizing oil carry-over and friction.

Configurations

Available in Simplex & Duplex

- › **BASIC** Pump, ODP Motor & Receiver
- › **MS** Definite Purpose Magnetic Starter & Alternator Relay (w/ Duplex)
- › **XL** Definite Purpose Magnetic Starter & Alternator Relay (w/ Duplex), Low Oil Level Sight / Shut-Down Monitor & Auto Drain
- › **ACP** Alternator Control Panel

HIGHLIGHTS

Cast-Iron Construction, Low RPM

Solid cast-iron cylinders, head & crankcase enhances heat dissipation and enables low-distortion, long-lasting, reliable operation

Pressure Lubrication Technology

Ensures oil is delivered to journal bearings and all necessary components, minimizing oil carry-over & friction

Deep-Finned Cast-Iron Inter-Cooler

Enhanced Heat Dissipation

Reliable & Safe

OSHA Fully-Enclosed Belt-Guard, Motor with Overload Protection, CRN & ASME Approved Air Receivers.

Made in Canada

DV Systems industrial air compressors are manufactured in our factory located in Barrie, Ontario, Canada.

Additional Standard Features

- › Quiet, Quick-Acting Valves
- › Steel connecting rods with serviceable babbit bearing inserts
- › Precision balanced oversized crankshaft (2.25 inch dia.) and premium bearings.
- › Large diameter filter/silencer.
- › Mechanical CPR for load-free motor starting.



HDI SERIES 5HP TO 30HP HEAVY DUTY INDUSTRIAL AIR COMPRESSORS

5 & 7.5 HP

Compressor Pump

247 2-Stage, 2-Cylinder

ELECTRICAL

Single-Phase 230V

3-Phase 200-208V / 230V / 460V / 575V

AIR RECEIVER

80 Gal. Vertical

80 Gal. Horizontal

120 Gal. Horizontal (Duplex)

CONFIGURATIONS

Base-Mounted No Air Receiver

MS Optional Magnetic Starter with Alternator Relay (Duplex)

XL Optional Magnetic Starter with Alternator Relay (Duplex), Low Oil Level Sight / Shut-Down Monitor & Auto Drain & Auto Drain



10 & 15 HP

Compressor Pump

447 2-Stage, 4-Cylinder

ELECTRICAL

3-Phase

200-208V / 230V / 460V / 575V

AIR RECEIVER

120 Gal. Horizontal / Vertical

240 Gal. Horizontal (Duplex)

CONFIGURATIONS

Base-Mounted No Air Receiver

MS Optional Magnetic Starter with Alternator Relay (Duplex)

XL Optional Magnetic Starter with Alternator Relay (Duplex), Low Oil Level Sight / Shut-Down Monitor & Auto Drain & Auto Drain



25 & 30 HP

Compressor Pump 2 x 447 2-Stage, 4-Cylinder

ELECTRICAL

3-Phase 200-208V / 230V / 460V / 575V

AIR RECEIVER

240 Gal. Horizontal

CONFIGURATIONS

Base-Mounted No Air Receiver

XL Optional Magnetic Starter with Alternator Relay (Duplex), Low Oil-Level Sight/Shutdown Monitor & Auto Drain

ACP Alternator Control Panel



13 HP GAS

Compressor Pump 247 2-Stage, 4-Cylinder

GAS-POWERED

Honda 13 HP Engine

AIR RECEIVER

30 Gal. Horizontal

CONFIGURATIONS

Standard Automatic Unloader & Electrical Starter on Engine

Base-Mounted No Air Receiver



PERFORMANCE SPECIFICATIONS

Model	HP	Tank	Displacement	CFM@175psig	CFM@150psig	CFM@ 100psig	Pump RPM
TAP-5052	5	80 Gal. Hor.	23.4	19.1	19.8	20.3	635
TAPV-5052	5	80 Gal. Vert.	23.4	19.1	19.8	20.3	635
TAS-5052	7.5	80 Gal. Hor.	28.9	25.8	25.9	26.2	800
TASV-5052	7.5	80 Gal. Vert.	28.9	25.8	25.9	26.2	800
TASE-5030	13 Gas	30 Gal. Hor.	28.9	25.8	25.9	26.2	800
TASE-5000	13 Gas	Base Mtd.	28.9	25.8	25.9	26.2	800

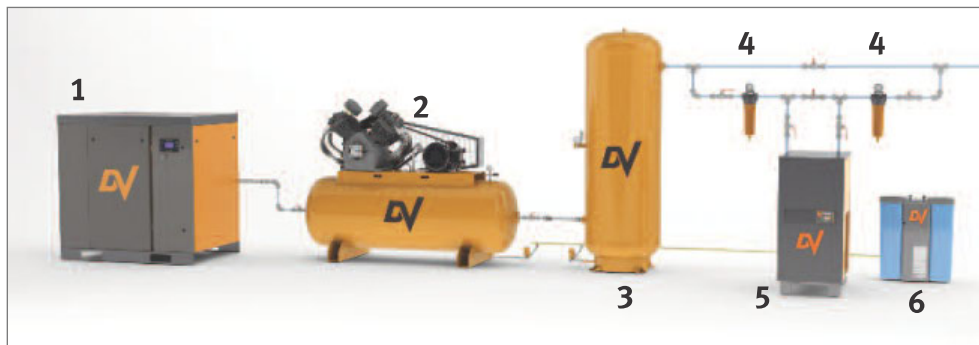
Model	HP	Tank	Displacement	CFM@175psig	CFM@150psig	CFM@ 100psig	Pump RPM
VAT-5063	10	120 Gal. Hor.	43.3	36.5	36.8	37.3	590
VATV-5063	10	120 Gal. Vert.	43.3	36.5	36.8	37.3	590
VAV-5062	15	120 Gal. Hor.	64.8	51.8	52.1	52.9	880
VAVV-5062	15	120 Gal. Vert.	64.8	51.8	52.1	52.9	880
VAX-5081	25	240H	108.2	86.6	87.0	88.5	735
VAY-5081	30	240H	124.1	99.3	99.9	101.5	845



HDI SERIES 5HP TO 30HP HEAVY DUTY INDUSTRIAL AIR COMPRESSORS

Compressed air quality is critical in maintaining an effective, efficient & properly operating compressed air system. An air dryer with appropriate filtration ensures the delivery of cool, clean, dry compressed air, promoting air system efficiency and reliable operation.

DV Systems provides a comprehensive range of compressed air treatment products and compressed air system accessories, including air dryers, filters, separators, air receivers, ETC oil-free converters & air compressor management systems.



- 1 Rotary screw compressor
- 2 Piston compressor
- 3 Air receiver
- 4 Series A filters
- 5 Compressed air dryer
- 6 Ecotron oil water separator

100+ YEARS OF MANUFACTURING EXCELLENCE

DV Systems is a designer of high-performance, high-efficiency compressed air systems.

We have been engineering and manufacturing industrial air compressors since 1954 and our commitment to a culture of innovation dates back 100 plus years.

Our objective is to provide reliable, innovative products and compressed air system solutions, strengthened by a commitment to exceptional customer service.

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ATTENTION: TO MAINTAIN WARRANTY PLEASE USE ONLY ORIGINAL SERVICE PARTS AND OFFICIAL DV SYSTEMS MAINTENANCE KITS. AS WE ARE COMMITTED TO CONTINUOUS IMPROVEMENT AND INNOVATION OF OUR PRODUCTS, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.



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