HDI SERIES
5HP TO 30HP
RECIPIROCATING AIR COMPRESSORS

- RUGGED & RELIABLE
  Ideal for Demanding Industrial Environments
- PRESSURE-LUBRICATED, CAST-IRON PUMPS
  Built for Heavy-Duty Operation
- SLOW COMPRESSOR PUMP RPM
  Long-Lasting Operation
- DEEP-FINNED CAST-IRON DESIGN
  Enhanced Heat Dissipation
- 7 YEAR LIMITED WARRANTY
**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 INSERTS**
Greatly reduce 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**
10 to 30 HP air compressors are equipped with a centrifugal pressure release which allows the motor to start before a pressure load is applied to the pump.
MANUFACTURED IN CANADA

All moving components of the 247/447 heavy duty pumps are machined, honed, balanced and assembled in Barrie, Ontario, Canada since 1954. 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 Warranty.

QUICK, 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.

DEEP-FINNED CAST-IRON INTER-COOLERS
Reliable deep-finned cast-iron intercoolers provide superior cooling between compression stages, enhancing heat dissipation.

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, vibration-free operation.

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

PRECISION BALANCED, OVERSIZED 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.
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 premium-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 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 & Custom Engineered

› BASIC Pump, ODP Motor & Air Receiver
› MS + Definite Purpose Magnetic Starter & Alternator Relay (on Duplex Units)
› XL + Definite Purpose Magnetic Starter & Alternator Relay (on Duplex Units), 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.

**7 Year Limited Warranty**
### PERFORMANCE SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>HP</th>
<th>Tank</th>
<th>Displacement CFM</th>
<th>Delivery CFM 175psi</th>
<th>Delivery CFM 150psi</th>
<th>Delivery CFM 100psi</th>
<th>Pump RPM</th>
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<td>5</td>
<td>80 Gal. Hor.</td>
<td>23.4</td>
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<td>19.8</td>
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<td>VATV-5063</td>
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### 5 & 7.5 HP

**ELECTRICAL**
- Single-Phase: 230V
- 3-Phase: 200-208V/230V/460V/575V

**CONFIGURATIONS**
- Base-Mounted: No Air Receiver
- Tank-Mounted: 80 Gal. Horizontal or Vertical ASME Approved & CRN Registered Air Receiver

**PACKAGES**
- Basic
- MS: Definite Purpose Magnetic Starter
- XL: Definite Purpose Magnetic Starter, Low Oil-Level Sight / Shut-Down Monitor & Auto Drain

### 10 & 15 HP

**ELECTRICAL**
- 3-Phase: 200-208V/230V/460V/575V

**CONFIGURATIONS**
- Base-Mounted: No Air Receiver
- Tank-Mounted: 120 Gal. Horizontal or Vertical ASME Approved & CRN Registered Air Receiver

**PACKAGES**
- Basic
- MS: Definite Purpose Magnetic Starter
- XL: Definite Purpose Magnetic Starter, Low Oil-Level Sight / Shut-Down Monitor & Auto Drain
- Optional: Constant Run-Stop-Start Controls

### 13 HP GAS

13 HP Honda Gas Engine

**CONFIGURATIONS**
- Base-Mounted: No Air Receiver
- Tank-Mounted: 30 Gal. Horizontal ASME Approved & CRN Registered Air Receiver

**Standard**
- Automatic Unloader & Electric Starter on Engine

### 25 & 30 HP

**ELECTRICAL**
- 3-Phase: 200-208V/230V/460V/575V

**CONFIGURATIONS**
- Base-Mounted: No Air Receiver
- Tank-Mounted: 240 Gal. Horizontal ASME Approved & CRN Registered Air Receiver

**PACKAGES**
- Basic
- XL: Definite Purpose Magnetic Starter, Low Oil-Level Sight / Shut-Down Monitor & Auto Drain
- Optional: Constant Run-Stop-Start Controls
**HDI SERIES DUPLEX**

**5HP / 7.5HP / 10HP / 15HP**

**HEAVY DUTY INDUSTRIAL AIR COMPRESSORS**

**Duplex units** are equipped with 2-Stage, 2-Cylinder 247 [5HP & 7.5HP] or 4-Cylinder 447 [10HP & 15HP] cast-iron compressor pumps, 2 ODP motors, and 2 optional magnetic starters with an alternator relay, or an optional alternating control panel [ACP] providing reliable, continuous-use, 24/7 operation.

**Available in 4 Configurations**

[BASIC] Duplex  
[MS] Magnetic Starter & Alternator Relay  
[XL] MS Configuration + Low Oil Level Shutdown Monitors / Switches & Pneumatic Auto Drain  
[ACP] Alternator Control Panel

**Built-In Back-Up System**

Duplex system provides reliable, continuous-use operation.

<table>
<thead>
<tr>
<th>AVAILABLE MODELS</th>
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<tbody>
<tr>
<td><strong>MODEL</strong></td>
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<tr>
<td>TAP-5562</td>
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<td>TAS-5562</td>
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<tr>
<td>VAT-5583</td>
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<td>VAV-5582</td>
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</table>

**5 & 7.5 HP**

**ELECTRICAL**

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

**PACKAGES**

Basic  
MS Definite Purpose Magnetic Starter  
XL Definite Purpose Magnetic Starter, Low Oil-Level Sight / Shut-Down Monitor & Auto Drain

**10 & 15 HP**

**ELECTRICAL**

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

**PACKAGES**

Basic  
MS Definite Purpose Magnetic Starter  
XL Definite Purpose Magnetic Starter, Low Oil-Level Sight / Shut-Down Monitor & Auto Drain
Basic Duplex Package

Features two cast-Iron compressor pumps, two high-efficiency North American made open drip proof (ODP) motors, and an air receiver.

XL Package - Magnetic Starters & Alternator Relay with Low Oil Level Shutdown Monitors & Auto Drain

Features the basic duplex + two definite purpose magnetic starters & alternator relay, two low oil level shutdown monitors / switches & pneumatic auto drain.

The magnetic starters & alternator relay act as a simple alternator, enabling each pump & motor combination to start alternately.

ACP - Alternator Control Panel

An advanced alternator option enabling each pump & motor combination to start alternately, providing reliable, continuous-Use, 24/7 operation. If the active pump & motor cannot deliver the desired demand, the secondary pump & motor is automatically enlisted.

The ACP configuration includes the Duplex air compressor + an alternator control panel driven by a logic relay preloaded with an alternating program.

MS Package - Magnetic Starters & Alternator Relay

Features the basic duplex + two definite purpose magnetic starters & alternator relay. The magnetic starters & alternator relay act as a simple alternator, enabling each pump & motor combination to start alternately.

Basic Duplex Package

Features two cast-Iron compressor pumps, two high-efficiency North American made open drip proof (ODP) motors, and an air receiver.
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 and air compressor management systems.

125+ 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 125 plus years. Our objective is to provide reliable, innovative products and compressed air system solutions, strengthened by a commitment to exceptional customer service.

FOR MORE INFORMATION VISIT
STILESMACHINERY.COM

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.