40 &50

40 HP - 165 SCFM at 100 PSI - 69 dBA

50 HP - 200 SCFM at 100 PSI - 70 dBA

SYSTEMS

SCREW COMPRESSORS

BUILT BETTER

H40/H50 ALGONQUIN

ROTARY SCREW AIR COMPRESSORS

POWERFUL, EFFICIENT DELIVERY
SILENT OPERATION

› DRIVE TECHNOLOGY
VARIABLE SPEED, DIRECT DRIVE OR FIXED SPEED, BELT DRIVE

› 100% DUTY CYCLE OPERATION
IDEAL FOR CONTINUOUS-USE APPLICATIONS

› INNOVATIVE DESIGN
COMPACT, QUIET, ENGINEERED FOR OPTIMIZED EFFICIENCY & PERFORMANCE

› INTEGRATED AIR AFTER-COOLER
EFFECTIVELY COOLS AIR & ENHANCES SYSTEM EFFICIENCY

› CSC300 CONTROLLER
ADVANCED CONTROL SOLUTION

H40/H50 ALGONQUIN
ROTARY SCREW AIR COMPRESSORS
40HP & 50HP VARIABLE SPEED

These heavy-duty, high-performance & high-efficiency Rotary Screw Compressors operate at a 100% duty cycle and are ideal for continuous-use applications where reliable, dry, clean air is required. Innovative component integration results in a compact, quiet air system engineered for efficiency & performance, providing high capacity air delivery and stable system pressure with minimal installation space.

ENERGY SAVING VARIABLE SPEED DRIVE (VSD)

The DV Systems' VSD integrates a robust frequency inverter with the CSC300 controller to ensure energy efficiency. The VSD constantly aligns energy use with air demand, adjusting motor speed to provide optimum performance and reliability, resulting in a compressor that is extremely economical and energy efficient, providing energy savings of up to 25%.

Eliminating Artificial Demand

The VSD's Pressure Tracking controls ensure that energy use is optimized by producing only as much air as is needed at set pressure, avoiding artificial demand. The cost of over-pressurization is eliminated by tracking pressure multiple times each second.

Eliminating Current Spikes

The VSD starts the motor with a gradual speed increase, eliminating in-rush current spikes on start-up and further contributing to the overall energy efficiency of operation.

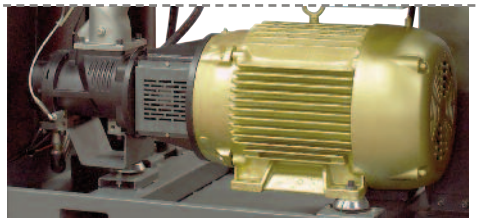
VSD Safety

The VSD also integrates numerous power monitoring and fault protection technologies, such as: Integrated EMC filter, line reactor, phase loss and overload protection.

FIXED SPEED, BELT DRIVE

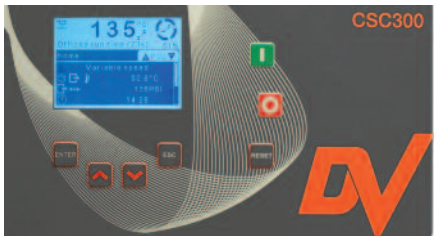
Ideal for continuous-use applications with constant compressed air demand.

Demonstrating efficient power transmission from the motor to the airend, the fixed-speed, belt-drive system provides maximum flexibility in pressure selection and features a single-point belt-tensioning system.



1:1 DIRECT DRIVE

DV Systems' One-to-One Direct Drive Technology enables efficient power transmission and optimizes power consumption, providing more air with less energy.
Our drive connects the motor directly to the high-efficiency airend with a low maintenance jaw in-shear coupling, providing maximum transmission efficiency and durability in use.



CSC 300 CONTROLLER

The Advanced CSC 300 features the option of sequencing up to 8 compressors, optimizing system performance & efficiency.

FEATURES

- Optional Sequencing - Up to 8 Compressors
- Web-Enabled System Control - Optional
- Variable-Speed Drive Integration
- Remote Stop/Start Operation
- Real Time Clock with Pressure Schedule
- Current (Amperage) Draw Display
- Remote Fault Signals & Power Restart Capability
- Service Maintenance Reminder
- Configurable Digital Inputs (Optional)
- 8 Relay Outputs (4 Configurable)

BUILT BETTER

COMPRESSOR COMPONENTS

AIR INTAKE FILTER

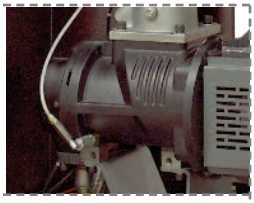
A protective, 3 stage, 3 micron premium air intake filter extends air end life and fluid change intervals. Easily serviced with no tools required.

AIR INTAKE VALVE

Designed to be extremely reliable, the air intake valve's unique profile and throat design creates a 25% increased air flow area when totally open, maintaining a minimal pressure drop under all operating conditions. The integrated by-pass valve is configured to reduce energy consumption while providing sufficient oil injection pressure during the unloaded state. The air intake valve is normally closed and integrated with a non-return valve. Crafted from quality materials, fewer components ensure reliable operation.

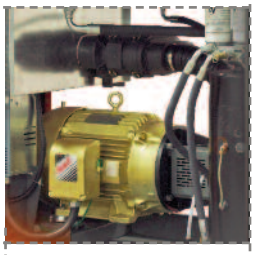
MINIMUM PRESSURE VALVE

A two-stage valve that allows the air to flow to the heat exchanger if the compressed air pressure exceeds 60 psi, where it is cooled and then exits the unit. Includes a non-return valve to prevent back flow into the compression element. Easy access for servicing. Anodized aluminum and brass components to prevent corrosion.



AIREND:

DV Systems' airends are accurately aligned to overall system operating specifications attaining the most efficient and reliable performance. The H Series direct-drive system features large displacement, low speed (< 4000 rpm) rotary screw airends, significantly extending bearing life and the lubricant breakdown rate. With a larger displacement, compression loads are distributed over larger surface areas, resulting in less material deflection and better air–coolant distribution. Rotor profiles make use of the latest technology in profile geometry, delivering high efficiency performance with long life and low noise. Shaft bearings and the materials used in the rotors and housings adhere to strict quality standards. All of the components are precision machined and ground on state of the art equipment in ISO 9001 facilities.



COOLER

The air end temperature is optimized for efficient operation by the combination of the aluminum block type air-air after cooler, which cools the compressed air as it leaves the unit, and the air-oil cooler, which removes the heat generated in the oil during compression. Large surface area, easy to clean and remove.

AIR / OIL SEPARATOR VESSEL:

The H50 is fitted with an optimized high-efficiency separation system specifically designed for variable flow applications. Initially, most of the oil is separated from the air by centrifugal force in the separator tank and any remaining oil aerosol is separated by a two-stage filter in the separator vessel. The oil level is verified by an easy-to-read oil level indicator.

"CYCLONE" MOISTURE SEPARATOR:

The optional cyclone moisture separator uses centrifugal separation to remove bulk liquids from the compressed air as it leaves the compressor.

THERMOSTATIC BYPASS VALVE:

A brass valve integrated in the oil filter housing ensures the compressor reaches its optimal temperature immediately after start-up to eliminate any risk of moisture build-up in the oil and to guarantee highly efficient operation.

OIL FILTER:

The oil filter ensures an extremely high filtration efficiency (10 microns), protecting the quality of the synthetic lubricant and improving the airend's lifetime.

H40/H50 ALGONQUIN
ROTARY SCREW AIR COMPRESSORS

100+ YEARS OF MANUFACTURING EXCELLENCE

DV Systems is a Designer of High-Performance, High-Efficiency Air Technology Solutions. 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.

ACCESSORIES

Dv Systems provides a range of clean air treatment products including dryers, filters, separators, air receivers, ETC oil free converters, EcoCentre Compressor Management Systems, etc.

SOLID & SILENT

Engineered to effectively minimize noise levels, DV's Rotary Screw Compressors are designed with solid steel base frames and floors, powdercoated, heavy gauge, acoustically insulated steel cabinets and sound-attenuating foam barriers with an oil-resistant coating.

SPECIFICATIONS

Electrical

Premium-Efficiency TEFC Industrial Motor

Motor RPM: 3600 RPM

3-Phase: 208V, 230V, 460V, 575V / 60Hz

Class F Insulation

Configurations

Base Mounted

VARIABLE SPEED DIRECT DRIVE

MODEL	HP	SOUND	SCFM 100 PSI	HEIGHT	WIDTH	DEPTH	WEIGHT (lbs)
H50VSD	50	69	200	64.5	35.5	64.5	1700

FIXED SPEED BELT DRIVE

MODEL	HP	SOUND	SCFM 100 PSI	HEIGHT	WIDTH	DEPTH	WEIGHT (lbs)
H50	50	70	200	64.5	35.5	64.5	1680
H40	40	70	165	64.5	35.5	64.5	1680

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BUILT BETTER

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