

## 40-100 HP FIXED SPEED ROTARY SCREW COMPRESSORS

### D Series

#### Compact & Built for Continuous-Use

Heavy-duty, high-performance D Series compressors are ideal for continuous-use applications where constant compressed air demand is required. The innovative component integration results in a compact, serviceable and quiet compressed air system engineered for efficiency and performance. The compact design ensures stable system pressure with minimal installation space. The compressors serviceability and reliability benefits, along with its small footprint, make it easy to see why the D Series sets itself apart from the competition. Best of all, it is affordable.

#### Durable and Silent

Engineered to withstand demanding environments while being whisper-quiet, D Series rotary screw compressors are designed with solid steel base frames and powder-coated, heavy gauge, acoustically insulated steel cabinets that feature sound-attenuating foam barriers. This quiet enclosed design keeps the noise inside the cabinet yielding noise levels as low as 70 dBA while delivering the dependable air needed for your application.

#### Advanced Control Solution

D Series compressors come equipped with an innovative CSC300 control solution. This reliable LCD controller manages, monitors and maintains optimal operational parameters that keep your investment protected while optimizing system performance. Features include:

- Remote start/stop operation
- Real-time clock with advanced run schedule
- Sequencing control of up to 8 compressors
- Remote fault signals & power restart capability
- Service maintenance reminder
- Advanced motor & phase protection



## D40-D100 ROTARY SCREW COMPRESSOR

MODEL	DRIVE MOTOR HP	SCFM 100 PSI	SCFM 125 PSI	SCFM 145 PSI	DRIVE CONFIG.	MOUNT	DIMENSIONS L x W x H INCHES	WEIGHT LBS.	SOUND DBA	CONTROLLER	THREE PHASE VOLTAGE 60 HZ
D40	40	157	144	142	BELT	BASE	65 x 36 x 65	1740	70	CSC300	230 / 460
D50	50	190	165	162	BELT	BASE	65 x 36 x 65	1760	72	CSC300	230 / 460
D75	75	281	276.8	N/A	DIRECT	BASE	79 x 47 x 79	3360	74	CSC300	460
D100	100	463	412	N/A	DIRECT	BASE	79 x 47 x 79	3770	75	CSC300	460

### Air Intake Valve

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 bypass valve is configured to reduce energy consumption while providing sufficient oil injection pressure during the unloaded state.

### 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. The MPV includes a nonreturn valve to prevent back flow into the compression element and is comprised of anodized aluminum and brass components to prevent corrosion.

### Air/Oil Separator Vessel

The optimized high-efficiency separation system initially separates most of the oil from the air by centrifugal force in the separator tank. 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.

### Air Intake Filter

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

### Cooler

The airend temperature is optimized for efficient operation by the combination of the aluminum block type after cooler, which cools the compressed air as it leaves the unit and the oil cooler, which removes the heat generated in the oil during compression.

### Oil Filter

The long-life oil filter ensures high filtration efficiency protecting synthetic lubricant quality and life of the airend.

### Efficient Airend

The low noise airend delivers efficient and reliable performance utilizing the latest technology profile with large displacement and operating below 4000 rpms extending bearing life, lubricant breakdown rate and better air-coolant distribution.

### Thermostatic Bypass Valve

A brass valve integrated in the oil filter housing ensures the compressor reaches its optimal temperature immediately after start-up, eliminating any risk of moisture build-up in the oil.



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