

# 10HP



## B10 AIRSYSTEM 10HP VARIABLE SPEED, DIRECT DRIVE ROTARY SCREW AIR COMPRESSOR

- › **Revolutionary Single-Phase Design**  
Enabling Installations in Locations  
Previously Uneconomical or Impossible
- › **Energy-Efficient Performance**  
Variable Speed, Direct Drive
- › **100% Duty Cycle Operation**
- › **Integrated Air After-Cooler**  
Effectively Cools Air & Enhances System Efficiency
- › **CSC300 Controller**  
Advanced Control Solution



**Built Better**



# B10 AIRSYSTEM 10HP / SINGLE-PHASE ROTARY SCREW AIR COMPRESSORS

Featuring an extremely low maximum 55 Amp draw enabling installations in locations previously uneconomical or impossible, these heavy-duty, high-performance & high-efficiency rotary screw air compressors operate at a 100% duty cycle and are ideal for 24/7 continuous-use applications where reliable, dry, clean air is required.

Innovative component integration results in a compact, quiet air system engineered for efficiency and performance, providing high-capacity air delivery and stable system pressure with minimal installation space. B10 Rotary Screw Air Compressor features energy saving variable-speed, direct drive technology and efficiently delivers 37 SCFM at 145 PSI.

## VARIABLE SPEED DRIVE (VSD)

Constantly aligns energy use with air demand, adjusting motor speed to provide optimum performance and reliability, resulting in an air compressor that is extremely economical and energy efficient, providing energy savings of up to 25%.

## ELIMINATING ARTIFICIAL DEMAND

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, further contributing to the overall energy-efficiency of operation.

## VSD SAFETY

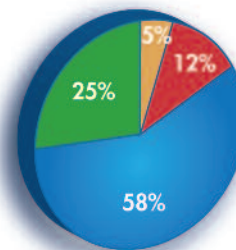
The VSD also integrates numerous power monitoring and fault protection technologies, such as: Integrated EMC filter, line reactor, phase loss and overload protection.

## 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.

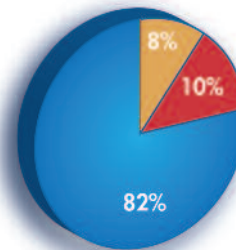
Our drive connects the motor directly to the high-efficiency airend with a low maintenance jaw in-shear coupling, providing maximum transmission efficiency and durability in use.

## VSD INSTALLATION



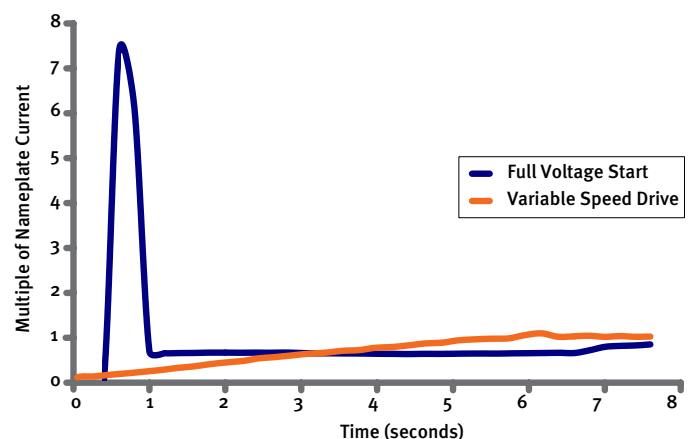
- ENERGY
- INVESTMENT
- SERVICE
- ENERGY SAVINGS

## TYPICAL INSTALLATION



- ENERGY
- INVESTMENT
- SERVICE

Starting Current for Full Voltage Start and Variable Speed Drive Units





## AIRSYSTEM

### The Complete Solution

The B10 AirSystem offers a complete solution for your entire compressed air system requirements, providing clean, dry, compressed air.

The AirSystem includes:

- › Microprocessor controlled ASD40 ProDry® Refrigerated Air Dryer with Stainless Steel Separator & Auto Drain
- › All Aluminum Die-Cast Pre-Filter Housing with 1-Micron Filter Element
- › 80 Gallon Air Receiver - Built to ASME Codes & CRN Registered.
- › B10 Air Compressor

## DRYTANK™

### Clean, Dry Compressed Air

A unique compressed air system configuration developed by DV Systems reliably delivering clean, dry compressed air to the air receiver by treating it first with a 1 micron pre-filter and air dryer.

This configuration ensures that the tank is virtually dry, achieving not only an unprecedented level in the abatement of corrosion, but also maximizes the capacity of the tank for its intended use – to store and provide continuously cool, clean and dry air.

## CSC 300 CONTROLLER

The Advanced CSC 300 Control Solution 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
- › 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)



# B10 AIRSYSTEM 10HP / SINGLE-PHASE ROTARY SCREW AIR COMPRESSORS

MODEL	HP	SOUND	SCFM 145 PSI	HEIGHT	WIDTH	DEPTH	WEIGHT (lbs)
B10TDVSD	10	68 dBA	37	51"	65 1/2"	24"	870
B10TVSD	10	68 dBA	37	51"	65 1/2"	24"	722

## ACCESSORIES

### DV Remote Start Kit Part # DSC-002851

Control and monitor your air compressor from anywhere in your shop with our rugged DV remote panel. The large, bright indicator lights allow you to easily see whether the air compressor is turned on or if there is any service required. The keyed switch ensures safety and security in controlling your air compressor. The durable polycarbonate enclosure is water and dust proof.

### Electronic Zero Loss Auto Drain Part # KK-9860

An electronic drain ensures that any potential condensate is discharged from the air receiver tank regularly and automatically, optimizing system performance.

### Maintenance Kit Part # MK-B57



DF Series Air Filters



Refrigerated Air Dryer

## > SPECIFICATIONS

### PERFORMANCE

**Power** 10 HP

### ELECTRICAL

**Premium-Efficiency TEFC Industrial Motor**

**Motor RPM:** 3450 RPM

**Single Phase:** 230V / 55A / 60Hz

**3-Phase:** 200V / 38A, 230V / 35A, 460V / 15A, 575V / 12A, 60Hz

**Class F Insulation**

### CONFIGURATIONS

**AirSystem B10TDVSD** Includes pre-filter & air dryer

**Tank Mounted B10TVSD** (80 Gal. air receiver)

## ENGINEERED FOR EFFICIENCY

The simplified, reduced-component, encapsulated design of the airend enhances reliability and contributes to the B Series' silent and efficient operation.

## SOLID & SILENT

Engineered to effectively minimize noise levels, DV's rotary screw air compressors are designed with solid steel base frames and floors and powder-coated, heavy-gauge, acoustically insulated steel cabinets.

FOR MORE INFORMATION VISIT [DVSYSTEMS.COM](http://DVSYSTEMS.COM)

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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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