

# 20 HP



## DENE D20 20HP

### ROTARY SCREW AIR COMPRESSORS

- › **POWERFUL, EFFICIENT DELIVERY**  
Variable Speed or Fixed Speed Belt Drive
- › **100% DUTY CYCLE OPERATION**  
Ideal for Continuous-Use Applications
- › **INNOVATIVE DESIGN**  
Compact, Quiet, Engineered for Optimized Efficiency & Performance
- › **CSC300 CONTROLLER**  
Advanced Control Solution
- › **5 YEAR LIMITED WARRANTY**



**BUILT BETTER**



# DENE D20 20HP

## ROTARY SCREW AIR COMPRESSORS

**These heavy-duty, high-performance & high-efficiency Rotary Screw Air Compressors** can operate at a 100% duty cycle and are ideal for continuous-use applications.

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.



D20 Base Mounted

### VARIABLE SPEED DRIVE (VSD)

The VSD integrates a robust frequency inverter with the CSC300 controller to ensure energy efficiency, proving energy savings of up to 25%. 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.

#### 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

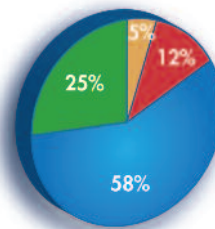
The VSD also integrates numerous power monitoring and fault protection technologies, such as: Integrated EMC filter, line reactor, phase loss and overload protection.

### FIXED SPEED, BELT DRIVE

DV Systems' fixed speed, belt-drive is ideal for continuous-use applications with constant compressed air demand.

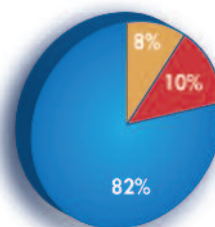
Demonstrating efficient power transmission from the motor to the airend, the fixed-speed, belt-drive provides maximum flexibility in pressure selection and features a single-point belt-tensioning system.

#### > VSD INSTALLATION



- ENERGY
- INVESTMENT
- SERVICE
- ENERGY SAVINGS

#### > TYPICAL INSTALLATION



- ENERGY
- INVESTMENT
- SERVICE



## AIRSYSTEM

### The Complete Solution

D20 AirSystem offers a complete solution for your entire compressed air system requirements, providing clean, dry, compressed air.

The AirSystem includes:

- › D20 Air Compressor
- › A Heavy-Duty Aluminum Pre-Filter Housing with a 3-Micron Filter Element
- › A Microprocessor controlled ASD100 ProDry™ Refrigerated Air Dryer with Stainless Steel Separator & Auto Drain
- › 120 Gallon Air Receiver - Built to ASME Codes & CRN Registered

## DRYTANK

### Clean, Dry Compressed Air

A unique compressed air system configuration developed by DV Systems delivering clean, dry compressed air directly to the air receiver by employing the combination of a 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 for your required applications, reliably and consistently.

## CSC 300 CONTROLLER

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

### Optional Sequencing Mode

Controls target system pressure within fine limits to reduce generating costs, and ensures that compressors are employed in the most efficient combination to suit a fluctuating air demand pattern.

## 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)



# DENE D20 20HP

## ROTARY SCREW AIR COMPRESSORS

### SOLID & SILENT

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

### ACCESSORIES

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

### SPECIFICATIONS

#### ELECTRICAL

**Premium-Efficiency TEFC Industrial Motor**

**Motor RPM** 3540 RPM

**Three Phase** 200V/53A, 230V/46A 460V/23A,575V/18.4A, 60Hz

#### CONFIGURATIONS

**AirSystem** D20TD & D20TDVSD

**Tank Mounted** D20T & D20TVSD

**Base Mounted** D20 & D20VSD

### 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.

### > VARIABLE SPEED DIRECT DRIVE

Model	HP	Sound Nominal	S.C.F.M.		Dimensions (inches)			Weight Lbs
			120 psi	145 psi	Height	Width	Depth	
D20TDVSD*	20	71	82	73	70"	83"	29 3/4"	1230
D20TVSD**	20	71	82	73	70"	83"	29 3/4"	1183
D20VSD	20	71	82	73	43"	44 1/2"	29 3/4"	980

### > FIXED SPEED BELT DRIVE

Model	HP	Sound Nominal	S.C.F.M.		Dimensions (inches)			Weight Lbs
			120 psi	145 psi	Height	Width	Depth	
D20TD*	20	71	82	73	70"	83"	29 3/4"	1230
D20T**	20	71	82	73	70"	83"	29 3/4"	1183
D20	20	71	82	73	43"	44 1/2"	29 3/4"	980

\*TD - Tank Mounted (120 Gallon) with ASD100 Dryer, \*\*T - Tank Mounted (120 Gallon)

FOR MORE INFORMATION VISIT [DVCOMPRESSORS.COM](http://DVCOMPRESSORS.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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D20-03-15-6 Printed in Canada