

# CPVS Series

Variable Speed Drive Rotary Screw Air Compressors



People  
Passion  
Performance

 **Chicago  
Pneumatic**

# Variable Speed Drive Rotary Screw Air Compressors

## Compressed Air That Pays For Itself

The Chicago Pneumatic Variable Speed (CPVS) compressor allows you to save operating costs when your application does not require the compressor's full capacity. Artificial intelligence automatically maintains designated pressure and provides only the air that your system requires. As a result, you save energy and money. The CPVS is great as a stand-alone machine or networked to a base-load compressor where it can function as a trim machine.

### CPVS 20 to 30 hp

Belt Drive			
Model	CPVS-20 HP(D)	CPVS-25 HP(D)	CPVS-30 HP(D)
Horsepower	20	25	30
Min-Max acfm @ 100 psig	22 - 89	30 - 112	35 - 130
Sound Level (dBA)	69	72	74
Base Mount L x W x H (in)	47 x 32 x 48	47 x 32 x 48	47 x 32 x 48
Net Wt. / Shipping Wt. (lb)	807 / 898	827 / 918	862 / 953
Base Mount w/Dryer L x W x H (in)	66 x 32 x 48	66 x 32 x 48	66 x 32 x 48
Net Wt. / Shipping Wt. (lb)	978 / 1069	988 / 1079	1022 / 1113
Tank Mount L x W x H (in)	77 x 32 x 73	77 x 32 x 73	77 x 32 x 73
Net Wt. / Shipping Wt. (lb)	TBD	TBD	TBD
Tank Mount w/Dryer L x W x H (in)	77 x 32 x 73	77 x 32 x 73	77 x 32 x 73
Net Wt. / Shipping Wt. (lb)	TBD	TBD	TBD

### CPVS 40 to 250 hp

Gear Drive					
Model	CPVS-40	CPVS-50	CPVS-60	CPVS-75	CPVS-95
Horsepower	40	50	60	75	100
Min-Max acfm @ 100 psig	54 - 198	67 - 239	80 - 285	103 - 350	129 - 456
Sound Level (dBA)	73	73	74	75	78
L x W x H (in)	56 x 42 x 64	56 x 42 x 64	56 x 42 x 64	67 x 42 x 64	67 x 42 x 64
Base Weight (lb)	1852	2028	2039	2646	3058

Gear Drive					
Model	CPVS-100	CPVS-120	CPVS-150	CPVS-175	CPVS-250
Horsepower	100	125	150	175	240
Min-Max acfm @ 100 psig	139 - 515	162 - 573	127 - 674	229 - 873	173 - 1071
Sound Level (dBA)	75	77	75	75	74
L x W x H (in)	75 x 42 x 64	75 x 42 x 64	88 x 42 x 64	120 x 58 x 76	125 x 62 x 78
Base Weight (lb)	3616	3682	4101	7057	7826



## Standard Features:

- Low sound enclosure
- Min/Max outlet pressure: 58-145 psi (20-30 hp)
- Min/Max outlet pressure: 58-189 psi (40-250 hp)
- 30-100% capacity
- Networking capability
- ES3000 electronic microprocessor (20-30 hp)
- ES4000 Advanced controller (40-150 hp)
- Airlogic electronic microprocessor (175-250 hp)
- 460V, TEFC motor
- Heavy duty, 2-stage pre-filtration
- Axial cooling fan (40-125 hp)
- Centrifugal cooling fan (150-250 hp)

## Designed to Last

Every CPVS comes with a rugged, Vacon variable speed drive that does much more than simply control the speed of the motor. The VSD comes completely programmed and wired, so time spent on installation and set-up are minimized. The VSD also includes a removable LCD display, integrated cooling fans, built-in line reactor and electromagnetic frequency filters as standard equipment.

## Setting the Standard

Competitive VSD compressors require external vents to keep the VSD cool during operation. Ventilated VSDs still overheat and ultimately fail in the field because they become contaminated as dust and debris are ingested over time. The VSD on the CPVS has integrated fans which use cool air from the intake and do not require vents in the electrical cabinet door. The VSD always stays cool and protected.

## Built-in Protection

The line reactor protects against voltage spikes and fluctuations, also known as "dirty voltage". A common example occurs when generators are used to run the compressors. Voltage fluctuations from the generator cannot be adequately controlled, which will result in damage to the compressor motor and VSD. EMF (electromagnetic frequency protection) prevents electromagnetic frequency in the plant from damaging the VSD, as well as protecting plant equipment from magnetic frequencies that may be generated by the VSD.



## The CP Compressor Guarantee

Chicago Pneumatic (CP) is dedicated to providing high quality, reliable equipment that has stood the test of time as one of the most rugged compressors in the market. Our compressors are 100% factory tested, and we stand behind our products with one of the most competitive warranties in the industry!

- |                              |  |
|------------------------------|--|
| • All rotary screw           | 1 Year with option to extend to 5 Years* |
| • Two-stage reciprocating**  | 2 Years                                  |
| • Single-stage reciprocating | 1 Year                                   |

*\*Screw compressors are supported by our CP Secure 1-Year Warranty with the option to extend to a full 5-year warranty (authorized start-up required and regular maintenance with factory authorized fluids and parts).*

*\*\*Excluding Two-stage Gasoline Drive Contractor Series which are covered for 1 year.*

CP compressors are supported by a network of trained service technicians who can provide complete warranty support, spare parts and technical consultation. For more information on our products, please contact your CP territory sales manager or a local authorized CP distributor.



## Over 100 years of experience

Since 1901 the Chicago Pneumatic name has represented high-performance tools and equipment designed for an extensive range of applications. Today, Chicago Pneumatic has a global reach, with local customer centers around the world. Chicago Pneumatic products are tailored to the needs of the industrial, vehicle service, and construction markets. Every day we develop and manufacture new products that are meant to meet your demands not only today, but tomorrow as well.

To learn more about our extensive range of tools, hydraulic attachments, industrial and portable compressors, accessories and workshop equipment, please visit [www.cp.com](http://www.cp.com).

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## Care. Trust. Efficiency.

**Care.** Care is what service is all about: professional service by knowledgeable people, using high-quality Original parts.

**Trust.** Trust is earned by delivering on our promises of reliable, uninterrupted performance and long equipment lifetime.

**Efficiency.** Equipment efficiency is ensured by regular maintenance. Efficiency of the service organization is how Original Parts and Service make the difference.

DISTRIBUTED BY



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The Compressed Air and Gas Institute, CAGI, is an organization dedicated to improving the compressed air industry through established standards. As a proud member of CAGI, CP Compressors publishes all technical data in accordance with CAGI/PNEUROP PN2CPTC2 guidelines and voluntarily allows products to be selected for participation in CAGI's Performance Verification Program. With CP Compressors, our customers know they are receiving the excellent performance that we publish.



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