

**Born for
laser cutting
applications!**

1. Plug and play
2. Compact unit and easy installation
3. Latest VSD technology brings perfect energy saving
4. Robust operation for clean compressor air providing
5. All-in-one air solution designed for laser cutting process



People. Passion. Performance.

 **Chicago
Pneumatic**

LASER CUTTING AIR COMPRESSOR APPLICATION

Laser cutting surpasses traditional methods like gas cutting, plasma cutting, and mechanical punching with significant advantages. It offers faster cutting speeds, $\pm 0.05\text{mm}$ precision, ultra-narrow kerf, minimal material deformation, energy efficiency, and cost savings. These strengths are driving its adoption as the industry's preferred solution over outdated equipment.

During laser cutting, compressed air plays a vital dual role: removing molten debris and protecting optical

lenses. However, if the air contains excessive oil or moisture, it contaminates the lenses, causing laser beam dispersion and rough, jagged edges. This not only compromises cut quality but also risks damaging lenses or laser heads, shortening equipment lifespan by 30-40% and increasing maintenance costs. Our solution ensures high air quality through multi-stage filtration and drying treatment, while maintaining stable pressure, to deliver consistent precision and equipment longevity.

Innovative technical advantages

1

Controller

- Reliable VSD control system
- Managing stably operation
- Friendly human-machine interface

2

Pack compressor :

- IE5/IP23 PM motor, higher efficiency
- Integrated drive chain with direct drive, less mechanical loss

3

Filter:

Pre and after filter cleaner and dryer air

4

Dryer:

3-5°C PDP

5

WSD:

Less water content

6

Tank:

- Cooling and filtering air, removing oil and water
- Buffer air and energy saving



Technical data

Model	Working pressure	Motor Power		Capacity			Noise Level dB(A)		Weight	Connection	Dimension	Tank
	Mpa	HP	kW	l/s	cfm	m³/min	50Hz	60Hz	kg		LxWxH(mm)	L
CPVSH20-15	1.5	20	15	9.0 - 23	18 - 48	0.5 - 1.4	70	71	240	R3/4"	905x740x1011	
CPVSH30-15	1.5	30	22	11.0 - 36.0	23 - 76	0.6 - 2.1	70	71	260	R1"	1005x895x1279	
CPVSH20-15 TMDD	1.5	20	15	9 - 23	18 - 48	0.5 - 1.4	70	71	585	G1"	1887X900X1813	500
CPVSH30-15 TMDD	1.5	30	22	11 - 36	23 - 76	0.6 - 2.1	70	71	655	G1"	1887X920X2085	500

Power supply: 400V/50Hz, 380V/60Hz. Please contact local sales team if any inquiry.

Unit performance measured according to ISO1217, Annex C, latest edition and ISO 2151.

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