



# OIL-FREE DENTAL COMPRESSORS

Reliability. Simplicity.  
Performance.

- 100% oil-free
- Many variants including open frame, silenced cabinet and membrane dryer
- High reliability
- Low noise levels
- High air quality







# THE DENTAL COMPRESSOR RANGE YOU CAN TRUST

## At a glance...

-  **Nominal Pressure**  
Up to 10 bar
-  **Motor Power**  
0.8 - 15kW
-  **Volume Flow**  
Flow @ 5 bar  
78 - 1350 L/min



## Dental Oil Free Compressors

**When compressed air is used in the dental, health, cosmetics sectors or to operate machinery which cannot be contaminated by impurities, an oil-free Champion compressor is required.**

Champion oil free compressors are available as open frame, silenced with or without on-board membrane dryer. Due to the high quality filtration and drying system Champion oil free compressors are compliant with HTM2022.

C-PRIME compressors benefit from heavy duty cycle use, silent running, superior design, high reliability, and articulated connecting rod system and brass internal cylinder surface. The entire PRIME range is equipped with hour-counter, thermic protection and amperometric protection. Versions equipped with membrane dryer (M) have a filtration system offering filtration to 0.01 micron, achieving a dew point value of -20°C, producing oil free hygienic air. In addition, the silenced cabinet versions (CS) are among the lowest noise level for this technology.

**The comprehensive and innovative range of oil free piston compressors feature:**

- Power range from 0.8 to 10 kW
- Suitable for 1-20 dental chairs
- Silenced operation on cabinet versions
- Noise level of 53-78 dB(A)
- Receiver sizes from 24-270 litres
- Efficient and improved duty cycles
- Operating pressure up to 10 Bar
- Double filtration system to 0.01 microns
- Maintenance free membrane dryers to -20°C dew point

In addition, the special internal surface treatment prevents rust generation and air tank corrosion. The installation of a simple automatic drain system reduces the need of periodical ordinary maintenance.

The choice of dental compressor is critical for the correct operating standards of surgeries and laboratories. Actual and future compressed air demand are important questions when making the correct dental compressor choice. The Champion dental compressor range satisfies every need, both from the performance and the investment point of view.







## Technical data

### C-Prime Open Frame: Oil free, Dental compressors

**Design:** 100% oil-free, dental piston compressors  
**Pressure Range:** up to 10 bar

CODE	MODEL	CHAIRS	FAD @ 5 BAR			MOTOR POWER				NOISE LEVEL	DIMENSIONS L x W x H	WEIGHT
			[CFM]	[L/ min]		[HP]	[kW]	[V]	[REC]		[mm]	
CC1189691	C-Prime 30-7 S	1	3.0	85	1	0.8	230	24	65	430 x 400 x 600	29	
CC1189692	C-Prime 50-15 S	3	6.0	170	2	1.5	230	40	66	600 x 410 x 770	46	
CC1189693	C-Prime 50-25 S	4	8.8	250	3	2.2	230	90	69	600 x 410 x 810	54	
CC1189714	C-Prime 100-30 Tandem S	6	12.0	340	4	3	230	90	69	1100 x 600 x 810	97	
CC1189715	C-Prime 100-50 Tandem S	8	17.6	500	6	4.4	400	90	69	1100 x 600 x 820	113	
CC1189716	C-Prime 200-75 Tandem S	10	25.4	750	9	6.6	400	200	72	1550 x 1000 x 1030	173	
CC1189717	C-Prime 270-100 Tandem S	15	31.6	900	13	10	400	270	75	1560 x 1000 x 1030	220	
CC1189718	C-Prime 500-150 Tandem S	20	47.4	1350	20	15	400	500	78	1980 x 780 x 1050	330	

Models can be configured to 10 Bar maximum pressure offering on average 33% lower FAD @ 8 Bar

### C-Prime Silenced Cabinet: Oil free, Dental compressors

**Design:** 100% oil-free, dental piston compressors  
**Pressure Range:** up to 10 bar

CODE	MODEL	CHAIRS	FAD @ 5 BAR			MOTOR POWER				NOISE LEVEL	DIMENSIONS L x W x H	WEIGHT
			[CFM]	[L/ min]		[HP]	[kW]	[V]	[REC]		[mm]	
CC1189719	C-Prime 30-15 CS	2	5.9	170	2	1.5	230	40	53	490 x 720 x 890	94	
CC1189720	C-Prime 50-25 CS	4	8.8	250	3	2.2	230	40	53	490 x 720 x 890	102	
CC1189721	C-Prime 100-30 Tandem CS	6	11.8	340	4	5	230	90	56	1245 x 725 x 1020	210	
CC1189722	C-Prime 100-50 Tandem CS	8	17.6	500	6	4.4	400	90	56	1245 x 725 x 1020	220	

Models can be configured to 10 Bar maximum pressure offering on average 33% lower FAD @ 8 Bar

## DENTAL COMPRESSORS

**J&J Air Systems**



### C-Prime Open Frame with Membrane Dryer: Oil free, Dental compressors

**Design:** 100% oil-free, dental piston compressors  
**Pressure Range:** up to 10 bar



CODE	MODEL	CHAIRS	FAD @ 5 BAR			MOTOR POWER				NOISE LEVEL	DIMENSIONS L x W x H	WEIGHT
			[CFM]	[L/ min]		[HP]	[kW]	[V]	[REC]		[mm]	
CC1189725	C-Prime 30-7 SM	1	2.8	78	1	0.75	230	24	65	500 x 470 x 600	36	
CC1189726	C-Prime 50-15 SM	3	5.4	152	2	1.5	230	40	66	710 x 410 x 770	50	
CC1189727	C-Prime 50-25 SM	4	7.9	225	3	2.2	230	40	66	710 x 410 x 810	58	
CC1189728	C-Prime 100-30 Tandem SM	5	10.8	305	4	3	230	90	69	1100 x 630 x 810	102	
CC1189729	C-Prime 100-50 Tandem SM	7	15.8	450	6	4.4	400	90	69	1100 x 630 x 820	118	
CC1189730	C-Prime 200-75 Tandem SM	9	23.0	660	9	6.6	400	200	72	1450 x 820 x 900	183	
CC1189731	C-Prime 270-100 Tandem SM	14	27.5	780	13	10	400	270	75	1560 x 1000 x 1030	240	

Models can be configured to 10 Bar maximum pressure offering on average 33% lower FAD @ 8 Bar

### C-Prime Silenced Cabinet with Membrane Dryer: Oil free, Dental compressors

**Design:** 100% oil-free, dental piston compressors  
**Pressure Range:** up to 10 bar



CODE	MODEL	CHAIRS	FAD @ 5 BAR			MOTOR POWER				NOISE LEVEL	DIMENSIONS L x W x H	WEIGHT
			[CFM]	[L/ min]		[HP]	[kW]	[V]	[REC]		[mm]	
CC1189732	C-Prime 30-15 CSM	2	5.4	152	2	1.5	230	40	53	490 x 720 x 890	98	
CC1189733	C-Prime 50-25 CSM	4	7.9	225	3	2.2	230	40	53	490 x 720 x 890	106	
CC1189744	C-Prime 100-30 Tandem CSM	5	10.8	305	4	3	230	90	56	1245 x 725 x 1020	215	
CC1189745	C-Prime 100-50 Tandem CSM	7	15.8	450	6	4.4	400	90	56	1245 x 725 x 1020	225	

Models can be configured to 10 Bar maximum pressure offering on average 33% lower FAD @ 8 Bar

# COMPRESSED AIR SOLUTIONS

## J&J Air Systems



# YOUR COMPRESSED AIR PARTNER



Champion's piston compressor range is designed to cover all the possible professional uses of compressed air. Our piston compressors come in various forms and sizes, providing a truly complete range of choices.



Champion stationary rotary screw compressors, both fixed and variable speed drive, are the answer to the needs of small and medium-sized companies.

**Call our technical support team on 0800 027 8442**



- Trade Counter (8am-5pm Mon-Fri)
- On Site Technical Assistance
- Supply & Installation
- Service Team on Call 24/7
- Support 365 days a year
- Local Free Delivery\*

## J&J Air Systems



J&J Air Systems  
Sands Industrial Estate,  
High Wycombe  
Bucks HP12 4HJ  
United Kingdom

Customer Service: 0800 027 8442  
Telephone: 01494 530291  
International: +44 (0)1494 530291  
Fax: +44 (0)1494 463062

[sales@JJAirSystems.co.uk](mailto:sales@JJAirSystems.co.uk)  
[www.JJAirSystems.co.uk](http://www.JJAirSystems.co.uk)

