

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





CHAMPION

CHAMPION

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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 [dB(A)] | DIMENSIONS L x W x H [mm] | WEIGHT [kg] |
|-----------|--------------------------|--------|-------------|----------|------|-------------|-----|-------|------------------------|---------------------------------|----------------|
| | | | [CFM] | [L/ min] | [HP] | [kW] | [V] | [REC] | | | |
| 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 [dB(A)] | DIMENSIONS L x W x H [mm] | WEIGHT [kg] |
|-----------|--------------------------|--------|-------------|----------|------|-------------|-----|-------|------------------------|---------------------------------|----------------|
| | | | [CFM] | [L/ min] | [HP] | [kW] | [V] | [REC] | | | |
| 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

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 [dB(A)] | DIMENSIONS L x W x H [mm] | WEIGHT [kg] |
|-----------|---------------------------|--------|-------------|----------|------|-------------|-----|-------|------------------------|---------------------------------|----------------|
| | | | [CFM] | [L/ min] | [HP] | [kW] | [V] | [REC] | | | |
| 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 [dB(A)] | DIMENSIONS L x W x H [mm] | WEIGHT [kg] |
|-----------|---------------------------|--------|-------------|----------|------|-------------|-----|-------|------------------------|---------------------------------|----------------|
| | | | [CFM] | [L/ min] | [HP] | [kW] | [V] | [REC] | | | |
| 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

