

dental



clean and quiet

air



JUN-AIR®

# a powerful range



## JUN-AIR compressors for the dental clinic

Sophisticated use of clean and dry compressed air within the dental industry results in an increasing demand for higher quality air compressors. JUN-AIR's extensive range complies with the company's traditional values - low noise level, reliability and long lifetime.

## Oil-less compressors

The oil-less range of air compressors meet the need for oil-free compressed air in the modern dental practice. The compressors are quiet in operation and are rated for continuous duty. They are virtually maintenance free with a long life expectancy. The compressor receivers are internally coated to resist corrosion and the compressors are suitable for single to multiple surgeries. These units are available with adsorption dryer to give the ultimate air quality.

## Oil-less in cabinet

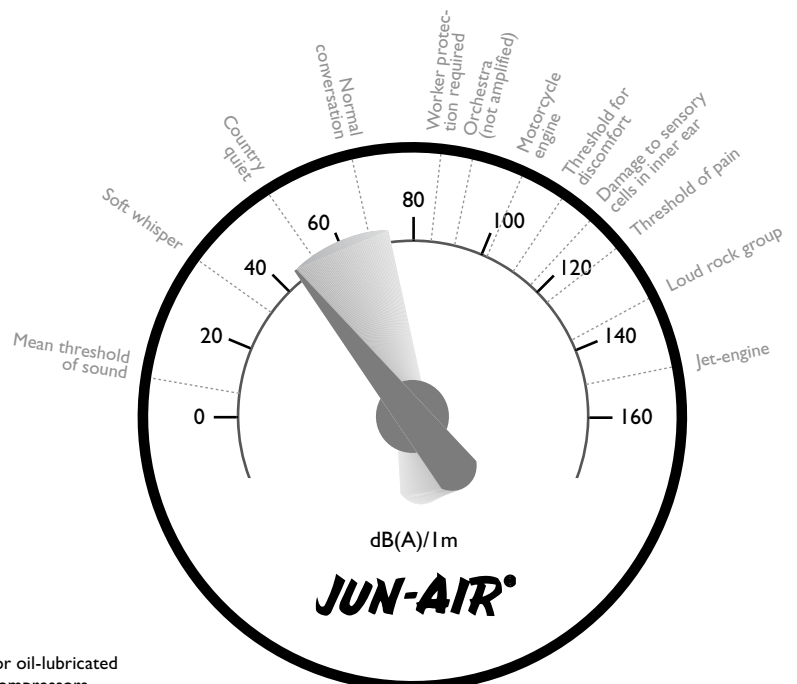
The optimal dental solution is the M series where a metal cabinet reduces the noise level by 75%,

resulting in a level of only 47-55 dB(A). These can be located in the surgery if required.

## Oil-lubricated compressors

The "original" quiet compressor. The JUN-AIR compressor has

been the lifeline of dental surgeries worldwide. Extremely reliable, silent running - below 45 dB(A), many of these units are still in operation after 25 years - a testament to the quality and reliability of our compressors.



Noise level for oil-lubricated and oil-less compressors

Model		6-25 (oil-lubricated)	12-40 (oil-lubricated)	24-40 (oil-lubricated)	OF302-25 (oil-less)	2xOF302-40 (oil-less)	2000-40 (oil-less)	4000-150 (oil-less)			
Version	B=basic M=cabinet				B	M	B	M	B		
Voltage	V	120 230	120 230	230 3x400	120/230 3x400	120/230 3x400	120/230 3x400/3x440	230 3x400/3x440			
Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60			
No. of dental units		1	2	6	1	3	4	8			
Displacement - 50Hz	l/min	50	100	200	108	216	176	352			
Displacement - 60Hz	l/min	60	120	240	138	276	212	424			
FAD@8 bar <sup>1)</sup> - 50Hz	l/min	32	64	128	38	76	90	180			
FAD@8 bar <sup>1)</sup> - 60Hz	l/min	37	74	148	44	88	110	220			
Max. pressure	bar psi	8 120	8 120	8 120	8 120	8 120	8 120	8 120			
Weight	kg lbs	29 64	48 106	84 185	28 62	78 172	46 101	107 236	50 111	111 245	126 278
Noise level	dB(A)/1m	45	48	56	65	47	68	50	72	52	74
Dimensions (l x w x h)	mm inch	380x380x550 15x15x21 5/8	420x540x585 16 4/8x21 1/2x23	590x540x610 23 2/8x21 1/2x24	B: 380x380x590 M: 665x440x861 B: 15x15x23 2/8 M: 26 1/8x17 3/8x33 7/8	B: 420x540x620 M: 665x450x861 B: 16 4/8x21 1/2x24 3/8 M: 26 1/8x17 6/8x33 7/8	B: 425x540x630 M: 665x638x861 B: 16 6/8x21 1/2x24 6/8 M: 26 1/8x25 1/8x33 7/8	1280x480x820 50 3/8x18 7/8x32 2/8			

<sup>1)</sup> Displacement is reduced by approx. 18-20% on units with dryer (D). Min. pressure required to operate dryer: 6 bar



### Filtration and dryers

JUN-AIR's range of ancillary equipment includes breathing air filters to remove particles, oil, water, oil odour and vapour from the air line ensuring that the air to the surgery is of a high quality.

The filters will not remove water vapour - this requires an adsorption dryer for the oil-less compressors only.

### Dry air

Compressors are used for compression of atmospheric air, which contains a large amount of water vapour. If the compressor is not supplied with an efficient dryer, the major part of this water vapour will condense and will change from the form of vapour into the shape of drops/liquid. This water constitutes ideal conditions for the growth of micro organisms together with the heat naturally generated during compression of the atmospheric air.

The JUN-AIR adsorption air dryer is an option for all oil-less compressors, which efficiently removes the water vapour immediately after compression of the air ensuring that the conditions for the survival of bacteria has been completely eliminated before the compressed air is accumulated in the receiver of the compressor. The compressed air used for instruments, patients and staff is, therefore, 100% dry, clean and without bacteria.

Please find samples from compressor receivers to the right:



### Wet air

Typical sample where the air was wet - bacteria soon developed in the sample



### Dry air

Sample taken from an oil-less compressor with dryer - as the air is dry, there are no conditions suitable to develop the bacteria.

Source: "Focus on hygiene in dental compressors" by Finn Djurhuus, chief adviser and head of section for DTI Industri (please contact JUN-AIR International A/S for a copy of the article).

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