



## The dental compressor

### Characteristics of the dental compressor

The dental profession requires clean compressed air which is dry and free from any harmful gases. In some cases it must also be sterile. Accordingly, oil-lubricated compressors and dry compressors are not advisable, as they do not guarantee clean air. Compressors without an air drying system are also inadvisable. The tank must be treated internally with a product which does not contaminate the air.

As a result, Cattani produces a dry compressor with pistons which are coated with a self-lubricating material and a compatible cylinder.

**Dry compressors** have always been viewed as having a shorter lifespan than lubricated compressors. This might seem obvious, as oil fills empty spaces, deadening noise and reducing wear, as well as the temperature of surfaces sliding against one another.

Yet Cattani S.p.A has managed to prove the contrary. In 40 years of research, Cattani has produced a dry compressor in which surfaces sliding against one another are not subject to wear and tear. As a result no dust forms, and generally speaking the pistons do not need to be replaced for the whole lifespan of the compressor. We are committed to making constant improvements and have achieved a system so reliable even experts thought it impossible, as it was commonly believed that oil was vital in both traditional compressors and combustion engines. We proved that this is not the case. We believe we have reached, or perhaps even exceeded, the same level of reliability as oil-lubricated compressors.

We still recommend performing the periodic checks indicated in the instruction manual. Discarded compressors can overheat because dry leaves from the garden obstruct ventilation, or because the condenser has run out.

Cattani S.p.A. has run tests on its pistons for up to ten thousand hours without seeing any reduction in size. We have taken compressors in for repairs which have worked for up to twenty-five years without suffering any real wear or tear. The absence of wear preserves the compressed air from any contamination.

Results of this kind involve extensive research and dedication which is based on true passion.

### Making the right choice

Around thirty years ago, when we first started making special dental compressors, we also took the option of using components available on the marketplace into account. It would have been less expensive and quicker, but it would have thrown us off the track.

We started from scratch and feel certain it was the right choice to make. Over the years, many details of the compressor have been improved; these improvements were not advertised but they did not go unnoticed by expert observers with a keen eye. We learned that technical progress has no limitations, and perhaps it doesn't have an end date either. This allows us to continue to develop products and to perfect them.



Cattani S.p.A.