

DORIN CO2 COMPRESSORS

The largest displacements available on the market

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DORIN, one of the CO2 compressors technology leaders globally, has completed the qualification process of **the world's largest CO2 transcritical compressors** models. During the last year several OEMs have strongly inquired for larger CO2 compressors capacities than the ones actually available: as a matter of fact the EU F-gas Regulation and the several safety drawbacks induced by the use of NH3, have led the industrial refrigeration sector to **focus on CO2 as the most viable alternative** also for large refrigeration duties.

After a challenging year of backbreaking testing, Dorin is now proud to welcome official orders for the following compressors models:

CD400 RANGE

- ➔ **CD5200M**, belonging to - 4 cylinders, featuring a displacement of 35.2 m³/n @ 50Hz.



CD400 - Model CD5200M

CD500 RANGE

- ➔ **CD6 500-40B, CD6 600-40M, CD6 700-40H**, 6 cylinders, nominal power from 50hp to 70hp, featuring a displacement of 39.8 m³/h @ 50Hz.
- ➔ **CD6 500-45B, CD6 700-45M, CD6 800-45H**, 6 cylinders, nominal power from 50hp to 80hp, featuring a displacement of 45.3 m³/n @ 50Hz.
- ➔ **CD6 500-53B, CD6 800-53M**, 6 cylinders, nominal power from 50hp to 80hp, featuring a displacement of 53.2 m³/h @ 50Hz.



CD500 - Model CD6 800-53M

These displacements generate the **largest refrigeration capacities available nowadays**: in typical medium temperature conditions (-8°C evap. temp. / 90 bar high pressure / 35°C gas cooler output. /

50Hz) an array of duties varying between 85 kW (**CD5200M**) and 125 kW (**CD6 800-59M**) are now available with a single compressor configuration.

In addition, all these models are characterized by and appreciated for:

- frequency drive capability
- extra smooth operation
- peculiar tribology solutions coming from the automotive industry (passengers cars engines)
- advanced oil pump lubrication
- ultra low pressure pulses and noise level

Dorin is sure, offering **CD400** and **CD500** compressors to OEMs, to put them now into the excellent position to have a unique opportunity to correctly address all those End Users inquiries seeking for large capacities compressors. Dorin has then solved the actual issue of lack of alternatives to unaffordable costs for the larger refrigeration racks: as a matter of fact, given a certain duty, the aforementioned large displacements allow now for smaller amount of racks to fulfil large capacities inquiries, like it happens for:

- large warehouses
- food processing plants
- industrial applications

Dorin invites all the refrigeration experts to visit its booth during Chillventa exhibition (Hall6, Stand 6-316): Dorin experts will be glad to address any kind of inquiries pertaining to these models and obviously to the entire product portfolio.

During the show additional (even larger) CO2 compressors models will be showcased for the first time, so the industry experts shall not miss this unique opportunity.

Officine Mario Dorin is a company established in 1918, manufacturing compressors since 1932. Based in the area of Florence (Tuscany), Italy, OMD reaches all over the world thanks to its commercial partnerships and internal technical-commercial personnel. OMD is present in more than 90 countries supplying always perfect and reliable products, following the principle of its founder Mr Mario Dorin "...the main thing is that our products must always be perfect..."

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