

# ITALIAN PLASTICS & RUBBER PROCESSING MACHINERY INDUSTRY ~ NEWS

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PIATTAFORMA INDIA PROJECT

NEWSLETTER NO. 82



UCIMU-SISTEMI PER PRODURRE



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## INNOVATION FOR COOLING AND THERMOREGULATION OF MOULDS

FRIGEL FIRENZE has recently introduced the latest process cooling solutions, designed especially for applications, among others, in the automotive, packaging, medical, chemical, pharmaceutical, household industries.

FRIGEL FIRENZE's lineup includes Microgel Syncro, the new machine-side unit that revolutionizes the temperature control method for injection molding. Microgel Syncro technology provides for a drastic reduction in cycle time (up to 40%), while maintaining the surface quality, dimensional characteristics and mechanical performance of the finished product. The reduction of the total cycle time is obtained thanks to the reduction of the cooling time only: this result, achieved through the digital synchronization with the moulding process, has the great advantage of not requiring modifications of the other moulding parameters, with the unit communicating with the press but remaining completely autonomous and easily implemented by the operators.

The Microgel Syncro range features more than 10 models with cooling capacities from 16 kW to 56 kW and heating capacities from 12 kW to 24 kW. The big difference compared to the traditional method consists of the fact that the Syncro control unit supplies cold water to the mould only during the cooling phase, drastically reducing its duration. The advantages for the customer are easily understood: increased productivity and profitability of the dedicated production cell, against an investment with an average payback time of less than 6 months.

Moreover, FRIGEL FIRENZE expands its adiabatic product family line, introducing the Ecodry MDK range of closed-loop adiabatic coolers with closed spray chambers and patented booster cooling technology, designed for flexible configuration of modular adiabatic solutions for small to large plastic factories. MDK takes advantage of some of the technological advances already introduced in the LDK range (new efficient PADs, new generation of EC fans, modular design, wide and deep configuration). MDK features a high efficiency humidification system (Coolpad) and by a new generation of EC fans which, combined with a more effective dry cooler, reach a new level of compactness in a powerful new adiabatic cooler product line. The new Ecodry MDK is designed for integrating easily into existing Ecodry 3DK systems, of which FRIGEL FIRENZE has an existing installation base of thousands of units, in addition to responding to the new needs of industries, including energy efficiency, sustainability and saving of raw resources such as water.



[www.frigel.com](http://www.frigel.com)

The project Piattaforma India has been promoted by UCIMU – Association of Italian Machine Tools Manufacturers and AMAPLAST – Italian Plastics and Rubber Processing Machinery and Moulds Manufacturers Association. The two associations agreed on the idea that promoting a network of associations and entrepreneurs who have developed knowledge and experience on the Indian market, can be useful in favoring of new paths of development for business. The Indian companies who are interested to form JV, cooperation, technical tie up, purchase machinery etc from/with Italian companies can contact below mentioned address for any assistance:

Contact information of Piattaforma India desk:

**Mr. Nilesh Joshi**  
**Manager - Italian Machinery Desk in India**



C/o The Indo Italian Chamber of Commerce and Industry  
11th Floor, Tower – A, Urmi Estate, 95, Ganpatrao Kadam Marg,  
Lower Parel (W), Mumbai 400013, Maharashtra  
Tel: +91 22 67728186  
Mob : +91 7666795385  
Fax. : +91 22 67728191  
Email : [italianmachinery@indiaitaly.com](mailto:italianmachinery@indiaitaly.com)