



CONCERTO

COMPRESSED AIR MANAGEMENT SYSTEM



Concerto system

CONCERTO: complete control and absolute flexibility

Numerous compressor stops and starts, energy wastage and wide variations in the compressor operation represent common problems in many compressed air systems.

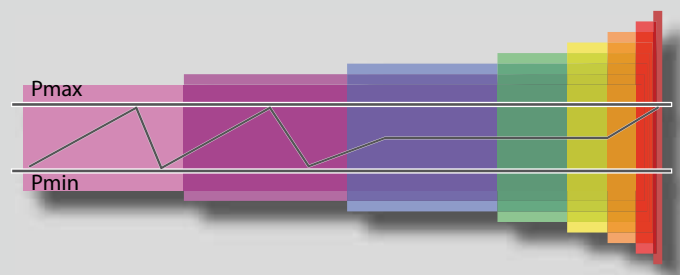
Concerto is Mattei's state-of-the-art compressed air management system, designed to satisfy any requirement of a compressed air user, regardless of the type of compressor installed. By the use of customisable functions the device allows the simultaneous command and control of **up to 16 compressors**, limiting the idle running times and optimising the customer's choice. Concerto enables **energy savings of over 35%**.



system in perfect harmony

Concerto can control compressors with different performances and functions, including those systems already installed, by automatically adjusting compressed air production according to the unit's air requirements.

The system automatically calculates the network's size, displaying the unit's key energy efficiency parameters and constantly monitoring management costs, this can also be viewed online.



Constant cost monitoring

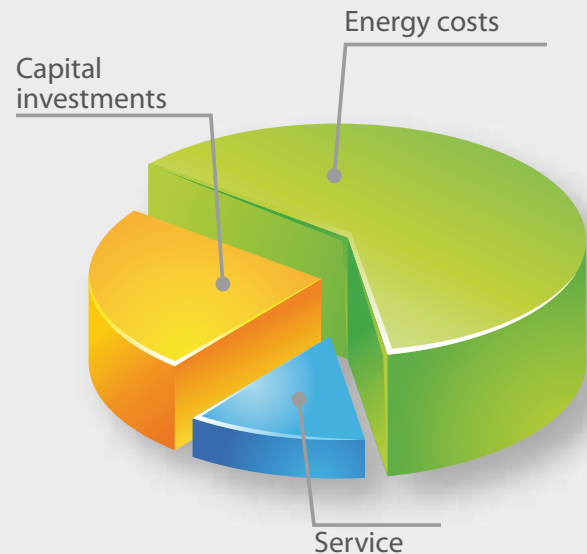


It is crucial for industry today to be aware of the availability and importance of a system that controls, manages and measures compressed air production systems.

The energy costs incurred during a compressor's entire life cycle are higher than those involved in the purchase and maintenance of the equipment.

Compressed air production systems evolve over time, and different (sometimes very different) compressors are frequently found in the same system.

Concerto is specifically designed to control and monitor compressor rooms, achieving the perfect harmonisation of all types of units. Concerto **optimises the costs and ensures safe and cost-effective compressor operation.**



IMMEDIATE SAVING

Regardless of the combination and model of compressors, Concerto always selects the most economical configuration, maximizing the plant efficiency.

Concerto controller extends the life of your compressors, guaranteeing the **lowest number of motor start ups, and eliminating idle running times almost completely.**

AN INTELLIGENT SYSTEM

Concerto requires only a few programming parameters and it works the rest out itself, enabling a combination of different compressors with different performances to perform efficiently by aligning production and consumption values.

A large display facilitates system programming, making it simple and intuitive.

All-in-one management



Dryers, filters and condensate treatment accessories can be directly connected to the system via digital inputs. In the same way analogue output sensors can be connected, in order to monitor the entire compressed air system.

Due to this Concerto provides an extremely wide range of information regarding the plant management, which is also viewable via web server.



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efficient and modular

Concerto provides configuration flexibility, allowing numerous operating combinations. The control modules enable the control of up to 16 compressors of different types and from different manufacturers.

Concerto also manages and monitors **variable speed inverter compressors, ensuring operation within the maximum efficiency range.**

With this dynamic management system, it is the system's productivity that determines the best compressor combination to be started.



- Over 35% total savings
- Reduces energy costs related to idle operation by 99%
- Cuts maintenance costs by 30%
- Extends the compressor's life cycle by 50%
- Requires an investment of only 5%
- Constantly monitors unit operation

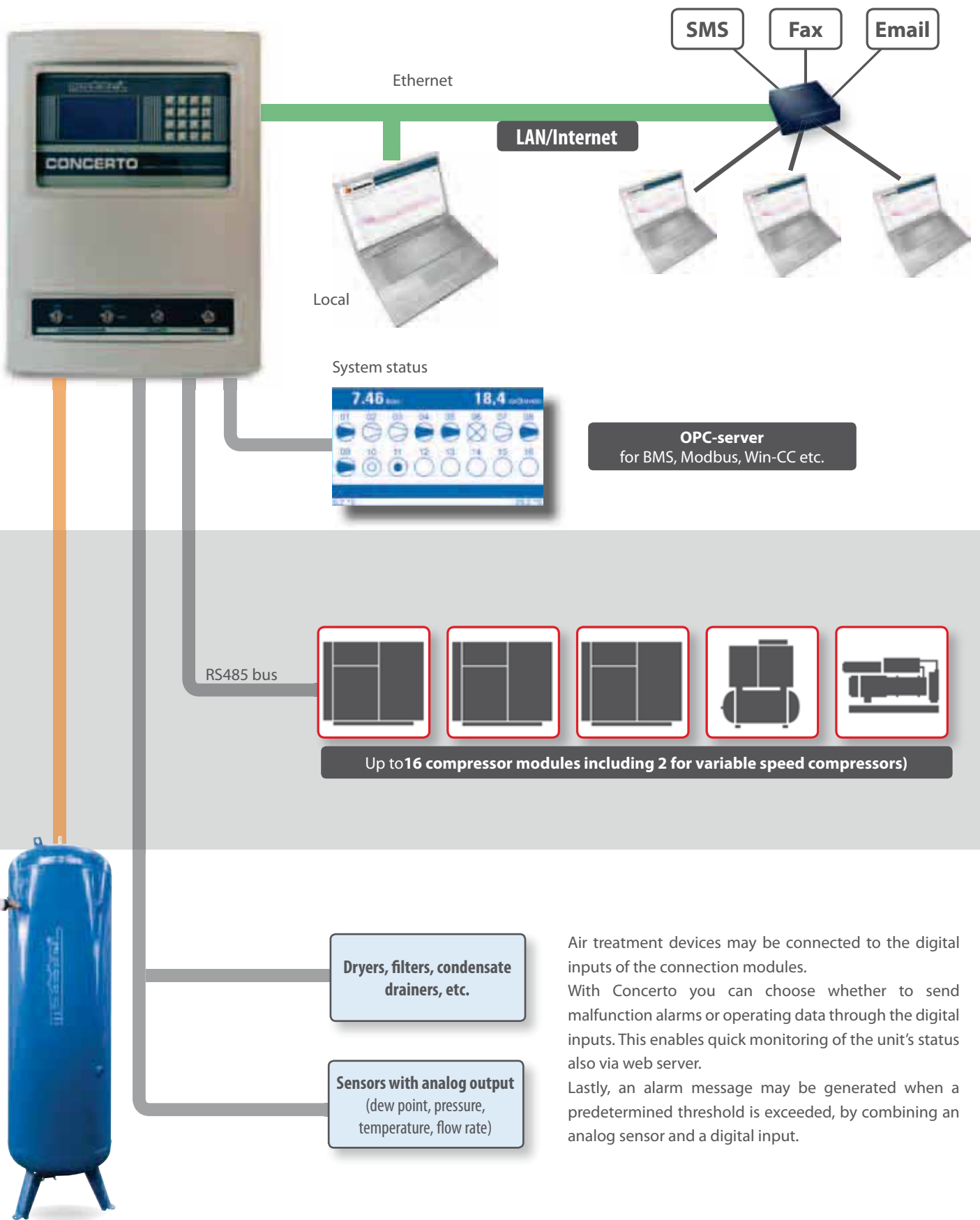
* The data may vary according to the unit's distinctive features.



Integrate communication

The main parameters, failure signals, maintenance intervals and energy consumptions can be directly displayed on a PC via a normal web server. This way the equipment can always be easily monitored and controlled in order to minimise unplanned events.

All of the data is collected on an internal long term storage device and is available to view in graph format for optimal system monitoring.



Pressure probe

Air treatment devices may be connected to the digital inputs of the connection modules. With Concerto you can choose whether to send malfunction alarms or operating data through the digital inputs. This enables quick monitoring of the unit's status also via web server. Lastly, an alarm message may be generated when a predetermined threshold is exceeded, by combining an analog sensor and a digital input.

Always caring about our customers' requirements

WORLDWIDE CONSULTANCY AND ASSISTANCE

Mattei operates worldwide with its sales and assistance network, providing a wide service range.

By purchasing a Mattei compressor you can rely on a qualified after-sales service, able to answer any request for assistance in very short time scales.



Certified quality

Quality as an integral part of all company functions and constant improvement of all production processes so as to always guarantee the maximum level of reliability and satisfaction. This, in brief, is the value and the meaning of Mattei's operational philosophy. A way of approaching the market and customers that makes Mattei an absolute point of reference in the compressed air sector.

Since 1994, Mattei has been operating with a Quality System certified by the DNV Institute under UNI EN ISO 9001 regulations.



MIEM: Mattei Intelligent Energy Management

The cost to produce a fixed quantity of compressed air greatly depends on the efficiency of the compression system.

To obtain potentially significant energy savings it is important to identify the minimum working pressure and demand profile required for a plant's compressed air supply.

The MIEM system allows Mattei to check the suitability of a currently installed compressed air plant and to verify any possible opportunities to improve its efficiency.

Thanks to specifically developed software, Mattei's technicians are able to evaluate the customer's current air consumption profile and to estimate the relative energy consumption. In addition the MIEM analysis allows Mattei to simulate the optimum energy solution via a computer, often providing potential savings of 40%.



Total quality management

Mattei considers quality as an essential value that represents the key factor to develop a positive relationship between the culture and performance of one's company. Innovative management software, developed solely for Mattei and technologically advanced manufacturing equipment, such as robotic machining centres and high precision machine tools, are at the heart of the advanced technical and quality levels of Mattei's products.



Technical features

| Power supply connection | |
|--|-------------------------------|
| System | 1~/N/PE |
| Voltage | 90-230 V 50/60 Hz |
| Display | |
| Type | LCD-Display 240x128 Pixel |
| Interfaces | |
| Total compressor modules | 16 |
| Number of variable speed compressors that can be connected | 2 |
| Number of modules for sensors and accessories | 8 |
| Compressor connections | |
| Compressor connection | 4 x RS485 |
| Max serial line length | max. 1200 m |
| Client | 1 x Ethernet |
| Storage card | |
| Type | SD card (1 GByte) |
| Temperature | |
| Operation and storage | 0 - 45 °C |
| Casing | |
| Size | 380 x 480 x 130 mm |
| Design | Plastic box for wall mounting |
| Protection index | IP 54 |
| Weight | ~4 kg |
| EMC conformity | |
| EN 61000-4-2 EN 61000-4-5 | |
| EN 61000-4-3 EN 61000-4-6 | |
| Concerto standard supply | |
| Pressure probe | |
| Integrated SD storage card | |
| Documentation | |
| Web-server system | |





ITALY - ING. ENEA MATTEI SpA

Strada Padana Superiore, 307
20090 VIMODRONE (MI)
Tel + 39 02253051 - Fax +39 0225305243
E-mail: info@mattei.it

M.T.A. SpA

Mattei Service Partner

C.so Italia, 47
24049 Verdello-Zingonia (BG)
Tel +39 035 4186400 - Fax +39 035 4186490
E-mail: info@mta.bg.it

www.matteigroup.com

UNI EN ISO 9001:2008

FRANCE

MATTEI COMPRESSEURS Sarl
Phone +33 1 48609860 - Fax +33 1 48609870
E-MAIL: infos@mattei.fr - www.mattei.fr

GERMANY

MATTEI KOMPRESSOREN DEUTSCHLAND GmbH
Phone +49 7151 5002560 - Fax +49 7151 5002565
E-MAIL: info@mattei-kompressoren.de - www.mattei-kompressoren.de

GREAT BRITAIN

MATTEI COMPRESSORS Ltd
Phone +44 (0)1789 450577 - Fax +44 (0)1789 450698
E-MAIL: info@mattei.co.uk - www.mattei.co.uk

U.S.A.

MATTEI COMPRESSORS Inc
Phone +1 410 5217020 - Fax +1 410 5217024
E-MAIL: info@matteicomp.com - www.matteicomp.com

RUSSIAN FEDERATION

ING. ENEA MATTEI SpA
Phone +7-495-739 41 90 - Fax +7-495-739 41 90
E-MAIL: mattei@inbox.ru

SINGAPORE

ING. ENEA MATTEI SpA
Phone +65 6741 8187 - Fax +65 6741 6826
E-MAIL: mattei@singnet.com.sg

SPAIN

ING. ENEA MATTEI SpA
Phone +34 93 435 03 94 - Fax +34 93 455 26 76
E-MAIL: info@mattei.it

PEOPLE'S REPUBLIC OF CHINA

Zhangjiagang
OMIC AIR COMPRESSORS MANUFACTURING Co. Ltd
WFOE by Ing. Enea Mattei SpA - Italy
Tel: +86 512 56951120 Fax: +86 512 56951121
E-MAIL: info@matteiomc.cn - www.matteiomc.cn