

Q7000 Quartz 7000

**THE COMPACT AND EVOLUTIONARY
MULTICHANNEL SOLUTION**

**Global installation cost
reduction of 30%**



Drying

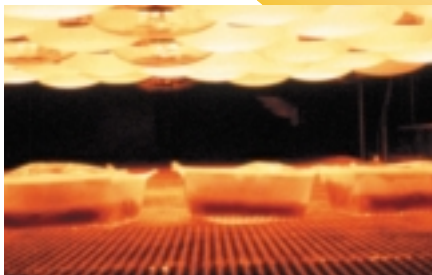
Blow moulding

Tracing

Thermoforming

Polymerisation

Stamping



Q7000 **Totally modular concept**

A DRIVER and DIGITAL COMMUNICATION card associated with POWER cards with the possibility to have 9, 18, 27 or 36 channels for each subset.

The subset association enables you to control hundreds of resistive or infra-red loads.

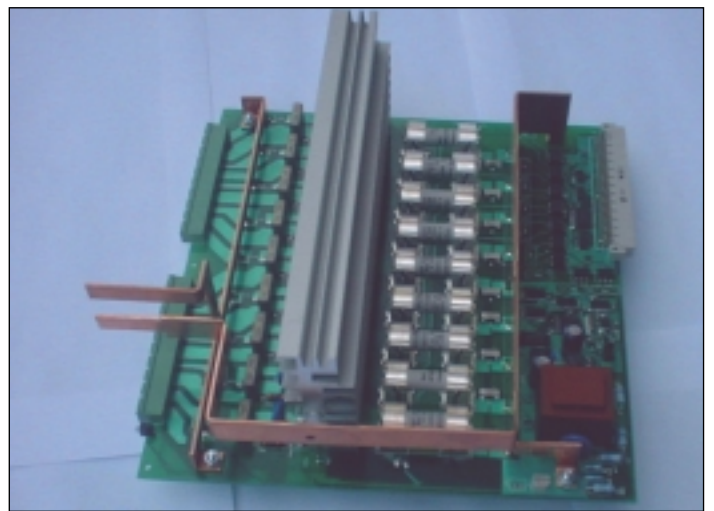
Totally adapted to your needs

Kit Version :

Version enabling the EURO THERM concept integration in the customer's specific mechanic



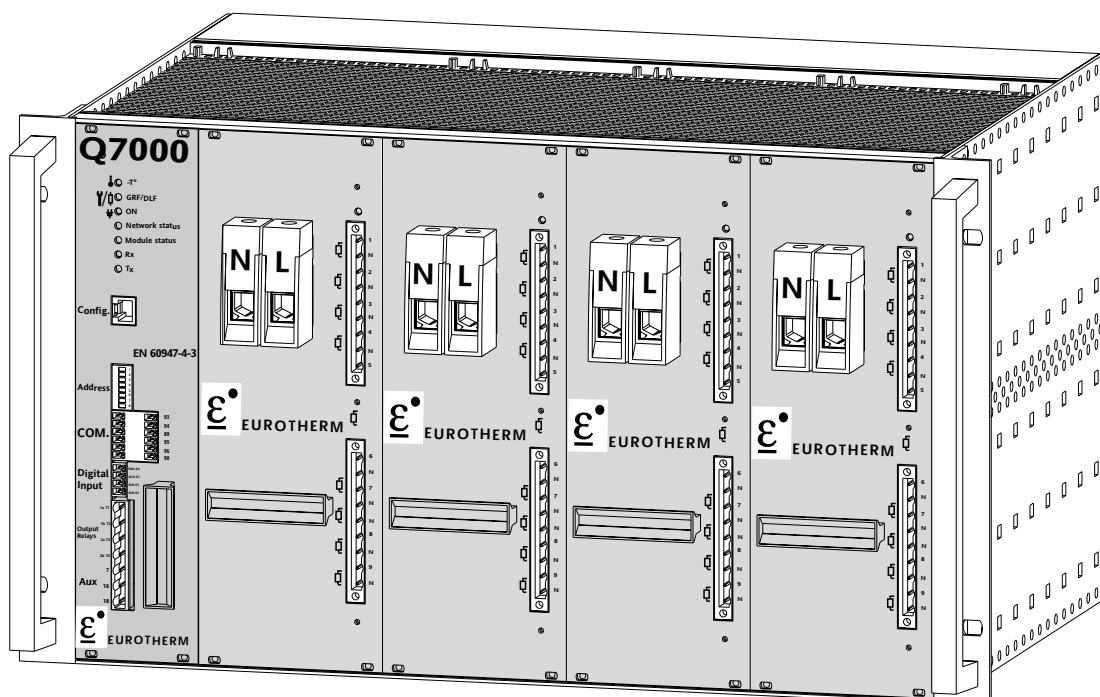
Driver electronic card



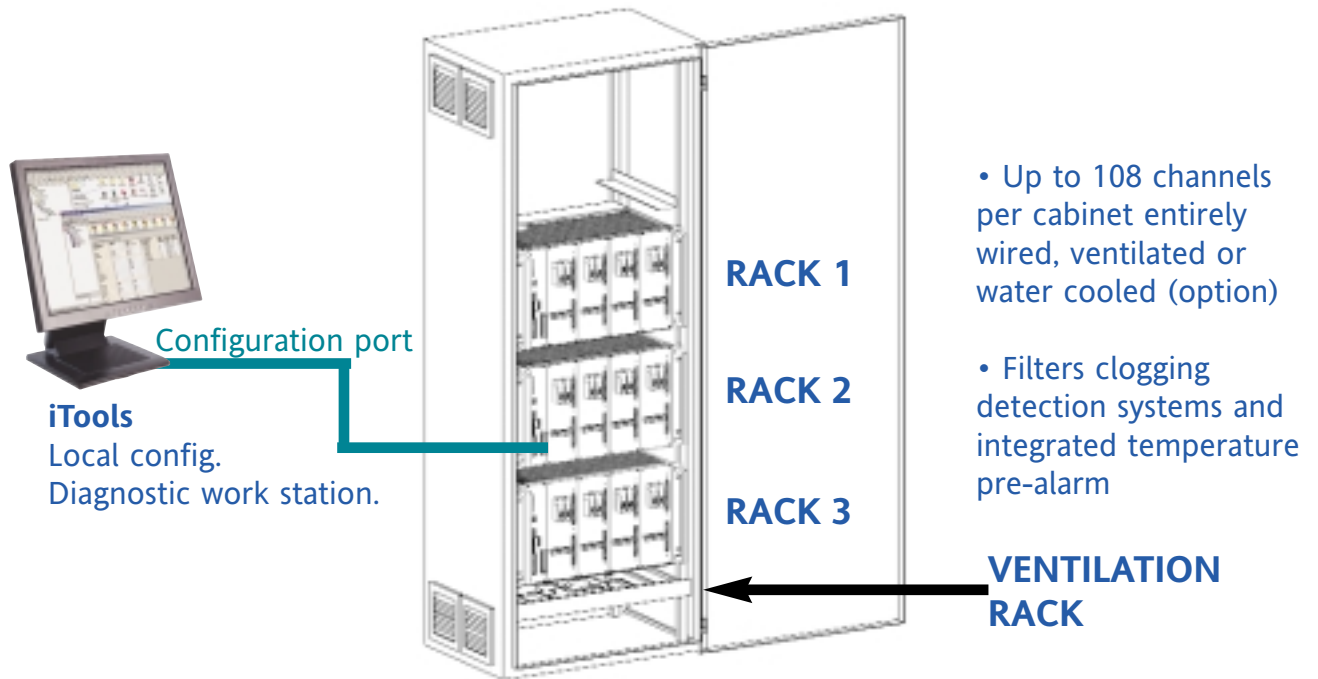
Power electronic card

19" Rack Version :

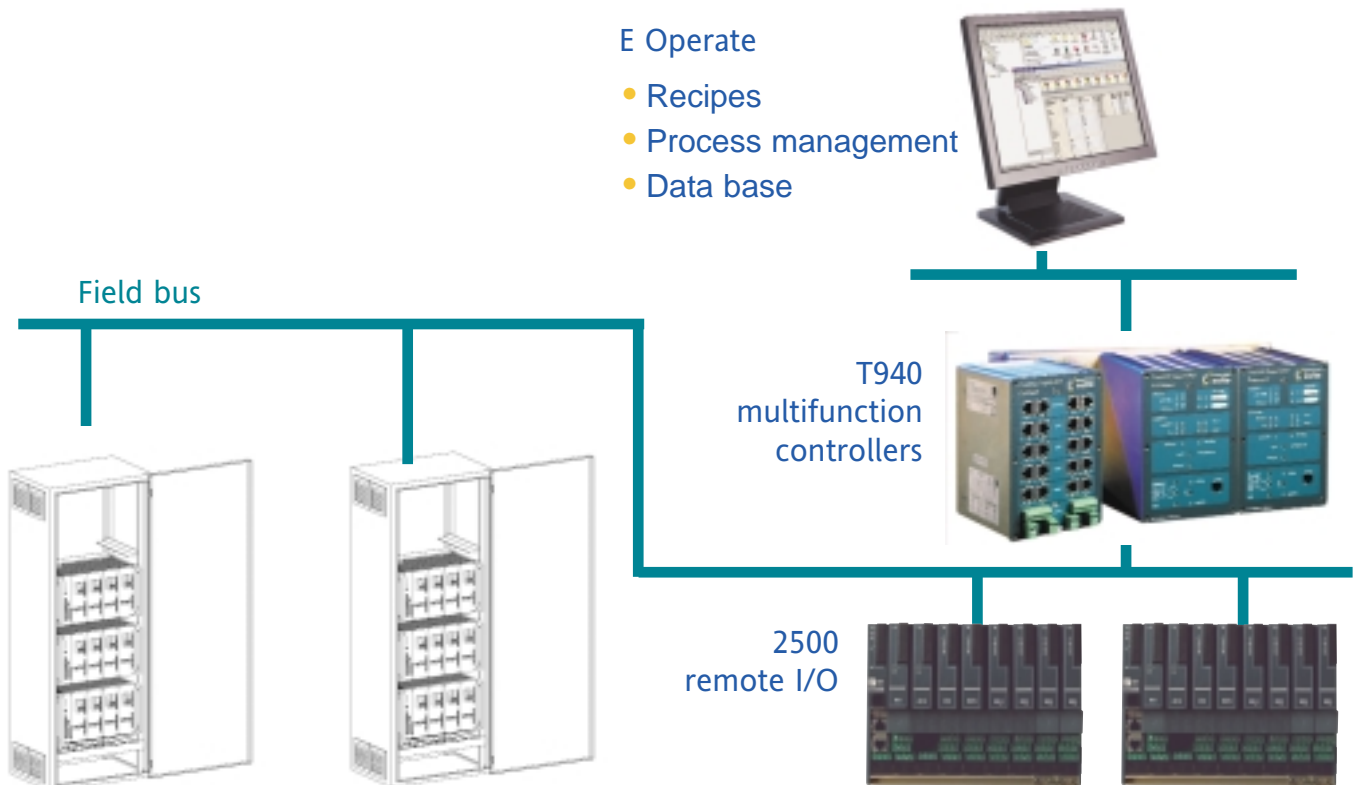
Up to 39 channels per 19" rack for integration in existing cabinet



19" cabinet Version :



Eurotherm Global Solution



EUROTHERM turn-key solution including :
power cabinets, supervision and EUROTHERM SUITE process control, multifunction controllers, Input/Output units, communication networks,
the EUROTHERM engineering and the whole of our associated services.



Technical Specifications

Product standard	8136R units comply with the terms of product standard EN 60947-4-3 'Contactors and motor-starters - AC semiconductor controllers and contactors for non-motor loads'.	Type 1 alarms	Serious alarms (GRF option)	Total load failure and thyristor short circuit detection. Signalling : Red 'GRF' LED and alarm relay contact.
CE labelling		Diagnostic alarm (DLF option)		Partial load failure detection. Signalling : Orange 'DLF' LED and alarm relay contact.
Compliance	Compliance with the essential requirements of the European Low Voltage Directive 73/23/EEC dated 19 Feb 1973 modified by 93/68/EEC dated 22 July 1993 and Electromagnetic compatibility Directive 89/336/EEC dated 3 May 1989 modified by 92/31/EEC dated 28 April 1992 and 93/68/EEC dated 22 July 1993.	Sensitivity (for each phase)		Detects the failure of at least one heating element for two identical elements. The DLF option includes Serious alarm monitoring.
Environment		Over-temperature alarm		For all units, the unit cuts out if the temperature threshold is exceeded. Signalling : Red 'T°' LED and alarm relay contact.
Use	0 to 60 °C at nominal current of 5,6 A or 0 to 40 °C at nominal current of 11 A max. altitude 2000 m.	Alarm relay		The relay contact (0.25 A/230 Vac; 32 Vdc) is either open on alarm or closed on alarm depending on the product code.
Storage	-10°C to +70°C.	Communication		<ul style="list-style-type: none"> Configuration : Modbus® RTU protocol compliant with the specifications 'PI-MBUS-300 rev J'. RS485 2-wire transmission at 9.6 or 19.2 kbaud (selected by switch on front panel). Thyristor unit address adjustable between 1 and 127 using switches. 3 diagnostic LEDs on front panel. Digital communication : Using the communication bus terminal (COM.). Modbus, Profibus or DeviceNet (code) protocols Supply: 115 V or 230 V (+10% ; -15 %)
Pollution	Degree 2 acceptable (defined by IEC 664).	Protection	Installation	Wiring protection by fuse
Humidity	5% to 95% RH without condensation.	Electrical protection		IP20 without adding additional protection. Over-voltage category 2 (as defined by IEC 664).
Power		Overall dimensions	Rack :	Height : 6 U (265,9 mm) Width : 19" (482,6 mm) Depth : 295 mm
Nominal current	5,6 A at 60 °C, 11 A at 40 °C	Front pannel :		Driver board : Width 12 F (60,96 mm) Power board : Width 18 F (91,44 mm)
Nominal voltage	230 V (+10%; -15%)	Cards :		Height : 233,25 mm Depth : 220 mm
Frequency	Use from 47 to 63 Hz	Mass		10 kg (max).
Dissipated power	1.3 W (approx.) per amp and per phase.			
Cooling	Ratings ≤ 11 A: Water cooling in addition of ventilation by fan 115 V or 230 V ; consumption 100 VA.			
Load	Industrial single-phased load.			
Categories of use	• AC-51 Resistive load with low temperature coefficient.			
Command				
Supply	External power supply (115 V or 230 V +10%; -15%) Consumption : 100 VA.			
Command type	Digital Communication			
Firing modes				
Zero crossing firing	<ul style="list-style-type: none"> 'Burst mode' : base time 16 or 64 cycles. 'Single-cycle' : base time 1 cycle (see product code). 			
Control				
Parameters	<ul style="list-style-type: none"> Standard: - Load voltage squared (V²) - Apparent power (V·I) 			
Linearity and Stability	Better than ±1% of full scale (with balanced network and load).			
Calibration	A control signal is available in V-I control for power and current calibration and in V2.			
Signalling	Electronics supply present : Green 'ON' LED.			

EUROTHERM LIMITED

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