FOCUS ON

ID974 DCC

Deep Cooling Cycle

Compact controller for blast chilling and cold storage rooms.

Features

- *Rapid blast chilling cycle with preset time;*
- *Cycle start key command;*
- *Storage control for "ventilated" refrigeration systems;*
- *Size 32 x 74 mm;*
- *Power supply 230V~.*

COMMERCIAL REFRIGERATION

GB

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eliwell
Invensys Controls Europe
An Invensys Company

ID974 DCC • Compact controller for blast chilling and cold storage rooms

The range of 32x74 format Eliwell electronic controllers is being extended with a new model that integrates temperature control for "ventilated" systems with control for rapid blast chilling.

The blast chilling cycle can be activated by pressing a key and has a configurable duration within the limits established by standards applicable to rapid chilling of foodstuffs.
The ID974 DCC is also suitable for "mixed" refrigeration systems that perform a blast chilling cycle and subsequent storage of foodstuffs. At the end of the blast chilling cycle the controller automatically switches to storage mode. The instrument automatically inhibits defrosting and manages alarms during the blast chilling function. This latter function is automatically restored when the cold room reaches the storage temperature.

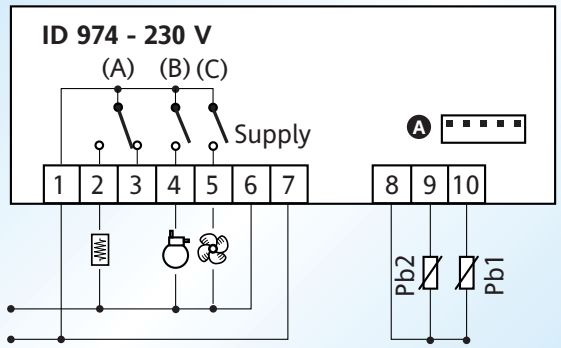
Applications

Low-price blast chillers

Technical Data

Front protection: IP65.
Container: PC+ABS UL94 V-0 resin plastic casing, polycarbonate glass, thermoplastic resin keys.
Dimensions: front 74x32 mm, depth 60 mm.
Mounting: panel mounting with 71x29 mm (+0.2/–0.1 mm) drilling template.
Usage temperature: –5...55 °C.
Storage temperature: –30...85 °C.
Usage environment humidity: 10...90 % RH*.
Storage environment humidity: 10...90% RH*.
*(non condensing).
Display range:
• NTC probe: –50...110°C (–58...230°F);
• PTC probe: –55...140°C (–67...284°F)
without decimal point (selectable by parameter), on display with 3 and a half digits + sign.
Analogue inputs: two PTC or NTC type inputs (selectable by parameter).
Serial: TTL for Copy Card connection.
Digital outputs: 3 relay outputs: first output SPDT 8(3)A 250V~, second output SPST 8(3)A 250V~, third output SPST 5(2)A 250V~.
Available with Buzzer.
Measurement range: from –55 to 140 °C.
Accuracy: better than 0.5% of full-scale +1 digit.
Resolution: 0.1°C (0.1°F up to +199.9°F; then 1°F).
Consumption: 3 VA max.
Power supply: 230V~ ±10% 50/60 Hz.

Electrical and terminal diagram



1	Common relay output
2	N.O. defrost relay (A)
3	N.C. defrost relay (A)
4	Compressor relay output (B)
5	Fan relay output (C)
6 - 7	Power supply
8 - 9	Probe 2 input (evaporator)
8 - 10	Probe 1 input (compressor)
A	TTL input for Copy Card

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