Outdoor Compact Cooling Unit MULTICOOL 1100

1 Application

Anywhere, predominately outdoors, where INTERTEC protective cabinets of glassfibre reinforced polyester (GRP), construction are used, the same criteria would apply to the air conditioning units.

2 Description

Due to sensitive measuring equipment installed inside cabinets constant temperatures should be maintained, especially in hot climates where air conditioning of the cabinet components is required - as is heating in colder climates.
INTERTEC offers both technologies separately or combined in a single unit.

The air conditioner is usually mounted on the outside wall of the protective cabinet or shelter.
It is suitable for use outdoors at ambient temperatures ranging from -20°C to +55°C. (lower temperatures upon request).

The components of the air conditioning unit are housed in a corrosion-resistant GRP box – INTERTEC's MULTIBOX series.
Through the construction of the enclosure, the IP (ingress protection) will be maintained.

INTERTEC can deliver a complete cabinet or shelter consisting of heating, cooling and integration using these systems.

3 The principle

The unit operates on the basis of compressed refrigeration consisting of the four main components, compressor, condenser, throttle and evaporator.
It forms a closed loop cooling refrigerant system.
An integrated thermostat constantly measures the air temperature inside the cabinet and regulates the cooling unit to suit.
The interior and exterior compartments are isolated to keep any outside weather from entering the cabinet or shelter.
Filter-free operation: The condenser within the external circuit is coated with a special dust protection system. The coating also ensures an advanced protection against aggressive media. Through the filter-free design, it is nearly maintenance-free at a constant power (e.g. no power drop due to soiled filter mats). Condensate does not have to be handled (e.g. regular exhaust or overflow of the condensate reservoir) through a special technique there is only a small quantity of condensate, which will be exhausted via the external circuit by the airflow.

4 Technical Data

Nominal Voltage	230 V ±10 %; 50/60 Hz
Initial Current	10.8 A
Rated Current	approx. 4.5 A
Fuse Rating	16 A
Net Cooling Capacity see 6 Cooling Capacity	Q_0=ca. 1.100 W (35°C/ 35°C)
Operating temperature range	-20°C … +55°C (standard) -40°C … +55°C (optional)
Control Area	+20 °C ... +45 °C; ±2 °C
Refrigerant/quantity	R134a / 400 g
Noise Level	ca. 58 dB(A) in 1 meter distance
Condensate Drain	automatic (maintenance free)
Housing Material	Glassfibre reinforced polyester GRP
Color	Similar to RAL 7032
Weight	approx. 38 kg (83lbs)
Dimension H x W x D	750 x 520 x 250 mm
Condenser Side	minimum 800 mm clearance to the wall

5 Optional accessories

Alternative voltages, heater, door contact switches, digital controller and additional sensor or alarm devices on request

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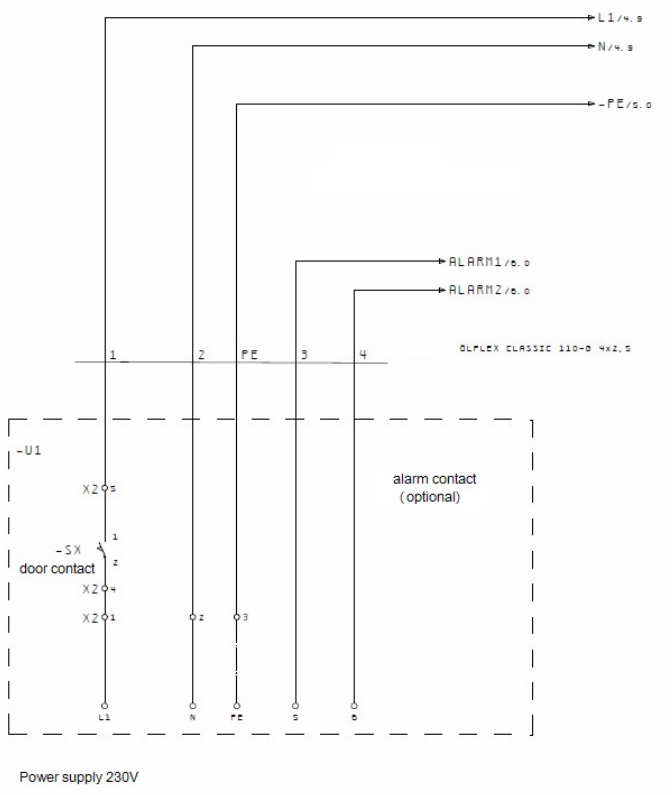
7 Electric Wiring



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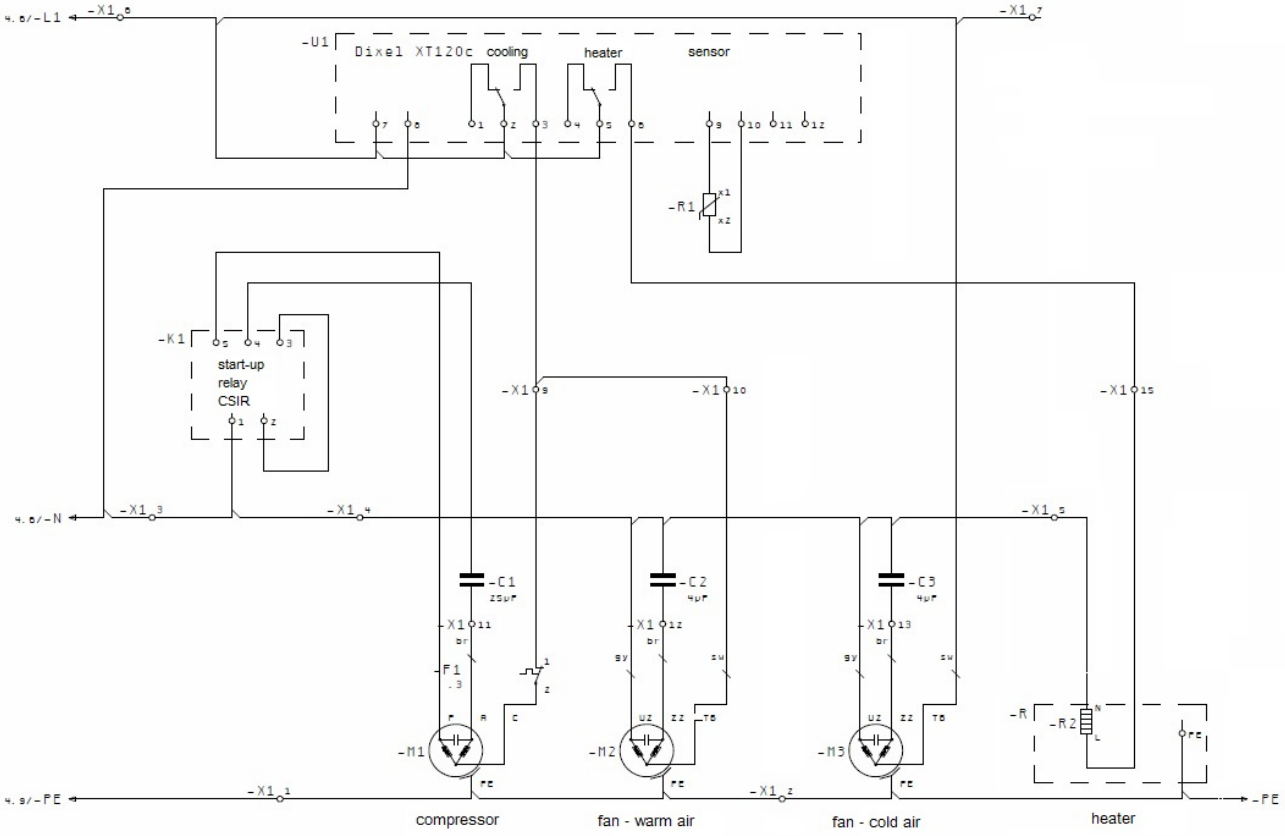

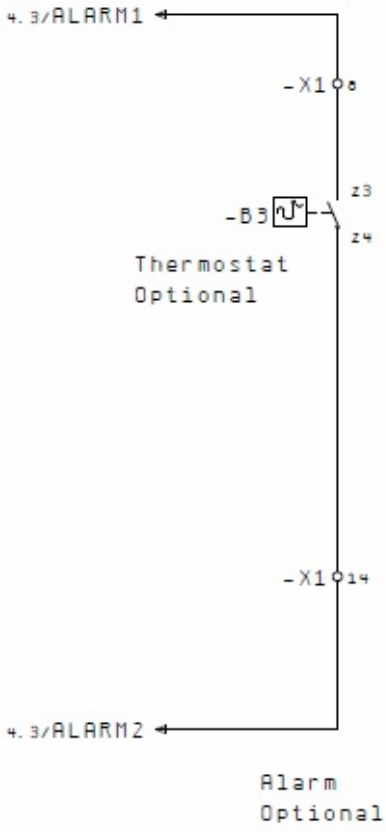

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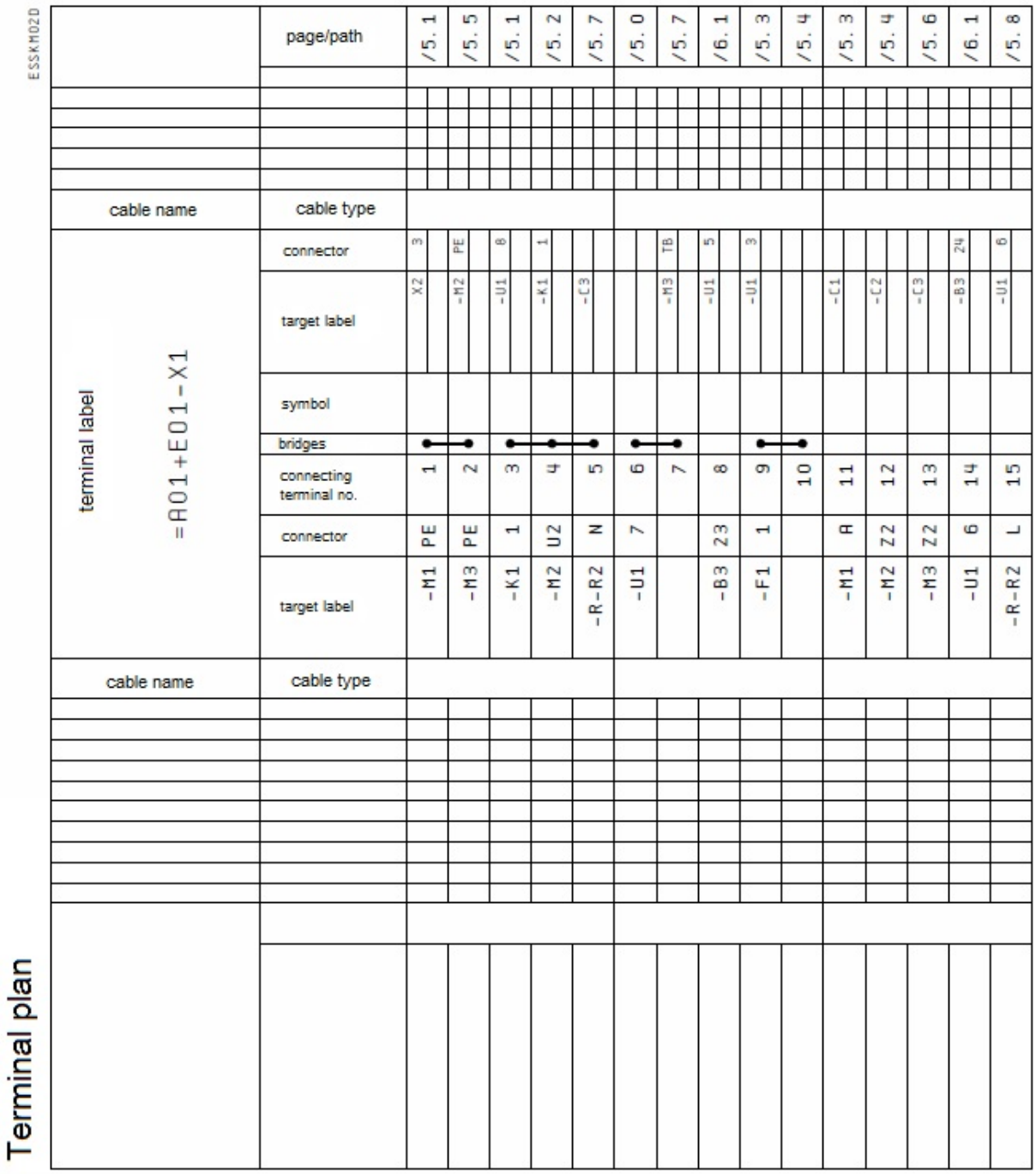

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