

## Alphacool ES Chiller 1000

Alphacool article number: 13070





## Quick Info

The Alphacool ES Chiller 1000 is a compressor cooling system with a maximum cooling capacity of 1000 watts, making it the perfect choice for cooling servers and workstation systems. Equipped with an integrated pump, the chiller takes on the task of circulating and cooling the coolant. Ensuring that the desired temperature is maintained.

- · Compressor cooling system for up to 1000 watts
- Pump with 10m head
- Flow rate and temperature alarm
- Stationary device with carrying handle

## Scope of delivery

1x ES Chiller 1000

1x 1.5m power cable (Euro plug)

1x 1.5m power cable (UK standard)

1x Chiller Alarm Adapter

## Technical data

| Dimensions (L x W x H) | 440 x 260 x 390 mm   |
|------------------------|--|
| Net Weight             | 16kg   |
| Voltage                | 220V   |
| Frequency              | 50 Hz  |
| Current                | 0.4-2.68A  |
| Compressor Power       | 0.44/0.46 kW   |
| Refrigeration Capacity | 0.89/1.08 kW   |
| Refrigerant            | R-134a   |
| Refrigerant Charge     | 280g   |
| Precision              | +/-0.3°C   |
| Reducer                | Capillary  |
| Protection             | Over current protection for compressor, flow alarm, over temperature alarm |
| Pump Power             | 0.03 kW  |
| Reservoir Capacity     | 21   |
| Inlet / Outlet         | G1/4 Inner threads   |
| max. Lift              | 10m  |
| max. Flow              | 10 l/min   |
| Color                  | black  |

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# Packaging dimensions per unit

L x W x H 540 x 380 x 500 mm

Weight 19000 g

## Other data

| Certificates | CE, FC, RoHS  |
|--------------|---------------|
| EAN          | 4250197130707 |
| Customs code | 84195080900   |

### Article text

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#### All in One

The ES Chiller is equipped with a display that can be used to configure various settings, including temperature control in precise 0.3°C increments. The G1/4" connections are compatible with common connections for water cooling systems. A built-in reservoir holds a capacity of 2 liters. Thanks to the integrated pump, with a maximum delivery head of up to 10m, the chiller can be integrated directly into the cooling loop. An extra pump is not necessary. For the sake of additional protection, the chiller is equipped with overvoltage protection for the compressor and has an alarm that warns if the flow rate is too low or the temperature is too high.

The ES Chiller 1000 is a stationary appliance with a carrying handle for easy transportation.

0,95

0,96

#### Performance calcuation

| Water outlet temperature (Fw)        |      |      |      |      |      |      |      |      |  |  |
|--------------------------------------|------|------|------|------|------|------|------|------|--|--|
| C°                                   | 8    | 10   | 15   | 20   | 25   | 30   | 35   | 40   |  |  |
| factor                               | 0,69 | 0,77 | 1    | 1,22 | 1,44 | 1,64 | 1,82 | 2    |  |  |
| Ambient temperature (Fa)             |      |      |      |      |      |      |      |      |  |  |
| C°                                   | 15   | 20   | 25   | 32   | 35   | 40   | 45   | 50   |  |  |
| factor                               | 1,26 | 1,2  | 1,11 | 1    | 0,95 | 0,87 | 0,8  | 0,72 |  |  |
| Percentage of glycol in coolant (Fg) |      |      |      |      |      |      |      |      |  |  |
| %                                    | 0    | 10   | 15   | 20   | 25   | 30   | 35   | 40   |  |  |

0,93

0,91

0,9

0,88

0,94

Formular: 1,08kW \* Fw \* Fa \* Fg

1

factor

**Example:** A chiller delivers 1.08kW cooling capacity. Water outlet temperature (Fw) is 30 C°, Ambient temperature (Fa) is 40 C° and Percentage of glycol (Fg) is 30 %.

Calculation: 1,08kW \* 1,64 \* 0,87 \* 0,91 = 1,4kW