



* Hose connection diameters

- Ø = 16mm
- Ø = 18mm
- Ø = 19mm

Stated diameter Ø, is on the hoses' inside.



230V ~ 50Hz



SafeStart PTC Engine heater

Characteristics: Hose heater

The heaters consist of a self-regulating PTC heating element and a water chamber with replaceable in- and outlet connections (A) adapted to different hose dimensions. The PTC element and electronics is placed in a "dry zone" separated from the engine coolant. The heaters have a built-in internal overtemperature fuse with automatic reset function.

The replaceable hose connections (A) comes in different dimensions* and 3 different angles; 45°, 90° and 180°.

DEFA PTC hose heater pre-heats the coolant. The PTC technology allows the heater's power to be reduced when the temperature on the coolant rises within certain limits. The power varies and is affected by resistance in the cooling circuit.

DEFA AS is conforming to the requirements of both ISO 9001-2008, ISO 14001:2004 and OHSAS 18001:2007.

In addition to this, our engine heaters and cables are conforming to the requirements of ISO/TS 16949:2002.

Item number

Separate order numbers on each configuration.

Item no: 412761 (Ø16mm), 412762 (Ø18mm), 412763 (Ø19mm)

Weight** = 295 gr.

** PTC heater with hose connections and bracket.

Part of

The engine heater must be ordered separately, because of special adapted solutions for a variety of engines and vehicles.

Installation

Read and follow the included fitting instructions for your vehicle carefully.

The heater should **ONLY** be installed as described in the installation guide.

Installation of engine heaters shall be performed by authorized garages.

Technical specifications

Voltage [V]	230
Rated power @ -25°C[W]	500
Start power, Max [W] ¹⁾	750-1000
IP rating [IP]	44
Test & Approval	EMKO-TUB(61)NO 293/91 EN 60335-1, EMKO-TSB(61) NO293A94

¹⁾ Varies with the ambient temperature