



230V~ 50Hz ⊕ △ CE X



DEFA SafeStart 700-series

Characteristics: Hose heater
 DEFA no: 700-799

This heaters can be divided into two different groups:

A. Heaters without thermostat

These heaters are identified with the DEFA number series 701-709 and 758-799. The heaters consist of a heating element and a coolant chamber with intake and outlet connections (C) for different hose dimensions.

B. Heaters with thermostat.

Heaters 710-757. The heater is equipped with a thermostat that regulates the coolant temperature and switches off the power supply to the element when the coolant has reached a temperature of 80°C at the intake/outlet of the heater. The thermostat switches the heater back on at 70°C. Also look at the 721-734 product sheet.

Required and adapted connectors, screws and hoses are supplied with the heater.

DEFA AS is conforming to the requirements of both ISO 9001-2000 and ISO 14001. In addition to this, our engine heaters and cables are conforming to the requirements of ISO/TS 16949:2002.

Item number

DEFA number series 411700 - 411799 and 412700 -412799.

Weight: **A** = 250gr, **B**=325gr.

Up to 25-pack. Varies with the size of the heater.

Part of

Engine pre-heater is supplied separately because of special adapted solutions for a variety of engines and vehicles.

Installation

Install the heater according to the enclosed installation guide.

Install **ONLY** the heater on vehicles listed in the installation guide.

Installing DEFA heaters must only be executed by authorized garages.

Usage

Normal usage - DEFA engine heaters is dimensioned for "normal usage". DEFA defines "normal usage" as; 3 connections for 3 hours pr. 24 hour based upon 150 users days a year (5 months a year).

Professional usage - It is necessary to make a yearly function control and if necessary install a new heater to obtain necessary extent of service on emergency vehicles or power supplies where the heater is connected more or less 24/7. This yearly service cost will not be covered by DEFA AS.

Pulse power - Some car parking areas are using interval (pulse) power timers turning the power On and Off several times per hour. Using DEFA engine heater in suchlike parking facilities will not be considered as "Normal use" and claims will be declined.

Technical specifications

Voltage [V]	230
Power [W]	550-2000
IP rating	IP44
Testing & acceptance	EMKO-TUB(61)NO 293/91 EN 60335-1, EMKO-TSB(61)NO293A94

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