



120V~60Hz



DEFA SafeStart 410404

Characteristics: Hose installation without thermostat.

For this type of engine heater, the flange consists of a metal pipe (A). The pipe can entirely or partially surround the heating element (B). The heater is attached to a specific point inside one of the engine's coolant hoses, and is butted against a metal support (e.g. water pump brackets). With this method, the entire heated part of the heating element is surrounded by metal.

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

DEFA no.: 410404

Part of

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

Installation

Install the heater according to the enclosed installation guide.

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

Use

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 perform an annual 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]	120
Power [W]	550
IP rating [IP]	44
Testing & acceptance	Electric Heating Appliances, UL 499, Thirteenth Edition, dated November 17, 2005, with revisions through and including April 11, 2012 & Engine Heaters and Battery Warmers, CAN/CSA-C22.2 No. 191-M89, Issue: 1989/09/01, General Instruction No. 1-3, (Reaffirmed 2009)

www.defa.com