



230V~ 50Hz ⊕ △ CE

Electrolux SafeStart 400-series

Characteristics: Hose installation without thermostat

Electrolux no: 401-499

Electrolux number series 401 to 499. Heaters in number series 420 to 423 are an exception (420-423 product sheet).

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.

Tests made on a medium size vehicle, shows that a 600W 000-series heater will increase the coolant temperature approx 50°C related to the outdoor temperature when connected in 195 minutes at an outdoor temperature of -17°C or colder. After 195 minutes the system has achieved thermal balance. Longer heating time that 195 minutes at -17°C or colder is energy dissipation. For that reason we recommend you to use a timer. Please look at the product sheet for Electrolux Smart-Start™ or Electrolux Futura.

Electrolux 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

Electrolux number series from 411401 to 411499.

Weight: Varies depending on diameter and size.

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 Electrolux heaters must only be executed by authorized garages.

Usage

Normal usage - Electrolux engine heaters is dimensioned for "normal usage".

Electrolux 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 Electrolux AS.

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

Technical specifications

Voltage [V]	230
Power [W]	550-820
IP rating	IP44
Testing & acceptance	EMKO-TUB(61)NO 293/91 EMKO-TUB(61)NO293A94

