

## Module eFC-VAG

### Technical description

### Module description

The eFC-VAG v2.3 module (hereinafter referred to as the module) is the expander of the FanControl-VAG module.

The module is designed for diesel cars VW Caddy (2004--), Golf 5, Golf 6, Golf Plus, Jetta (2006--), Passat B6, Passat SS, Tiguan, Touaran, in which in 2010 the factory preheater Webasto was updated with new software.

**!** eFC-VAG works only in conjunction with FanControl-VAG, starting with v2.9.

If there is an earlier version of FanControl-VAG installed in the car (below v2.9) – it is required to replace it or update the software by the manufacturer.

The installation of the eFC-VAG is required in the following cases:

1. The FanControl-VAG module is installed in the car, but after a visit to the official VW dealer and the Webasto software updating, FanControl-VAG still triggers the climatic system but there is no control of preheater anymore.
2. To guarantee the start of the preheater when installing the FanControl-VAG module, regardless of version of the Webasto software, which can be changed when visiting the official representatives of VW.

### Module connection

The module is connected to the preheater CAN-bus by cutting into it with series connection right beside of the Webasto preheater.

There should not be any factory electronic units and sensors, etc. between connection point of the eFC-VAG module and the Webasto preheater.

Wire assignment in the car:

- CAN-L – orange with brown stripe.
- CAN-H – orange with violet stripe.

Module paired wires CAN 1 and CAN 2 are used to connect the module to the CAN-bus: one of the pairs is connected to the CAN-bus from the Webasto preheater side and the other to the CAN-bus from the vehicle side.

It does not matter what pair (CAN1 or CAN2) is connected to the preheater, the main thing is that the wires CAN-H and CAN-L are not mixed up.

When installing eFC-VAG, pin #18 of the FanControl-VAG module (factory preheater digital control-bus) doesn't have to be connected.

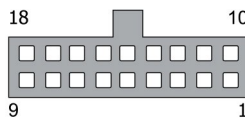


Figure 1. Pin numeration, wire side view

Table 1. Pin assignment of module connector

Nº	Color	Type	Assignment
1	Black	Power source	GRND
2	Brown	CAN 2	Data-bus CAN2-L
3	Brown	CAN 1	Data-bus CAN1-L
4-9	–	–	–
10	Red	Power source	+12 B
11	Brown/Red	CAN 2	Data-bus CAN2-H
12	Brown/Red	CAN 1	Data-bus CAN1-H
13-18	–	–	–

Table 2. Technical data and operating conditions

Characteristics	Description
Voltage, V	9 ... 15
Maximum current consumption in active mode, mA	200
Maximum current consumption in standby mode, mA	1,5
Temperature, °C	- 40 ... + 85
Maximum relative humidity, %	95

Table 3. Package

Name	Amount, pcs
Main unit	1
Wire harness	1
Technical description	1
Package	1