



## Introduction

### About this document

#### **Purpose of the document**

The purpose of this document is to give you the information and instructions that will enable you to gas fill the AC components independent of the temperature gauge. This function control is a static test and is intended to be done in a workshop.

This document is also intended for use when troubleshooting and gas filling so that any faults can be localised in a systematic way.

In the static test, checks are performed to ensure that there are correct responses when given commands are issued.

#### **Limitations in the use of the document**

This document is only intended to test climate systems in which the Viper MK1 is installed and controls all climate components.

### Before you start testing







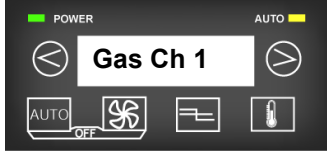


#### **Run mode/Test mode**

The first setting, or “mode”, that appears when the Viper MK1 starts is **run mode** (default setting). In this mode the climate system is controlled by the Viper, even though it is possible for the driver to control certain parameters manually.

In the function test, however, we will go down one more step in the system and, by pressing a few buttons, come into test mode. In this mode automatic control is switched off and it is the tester who controls the individual components. When you are in the test mode all components are set to OFF, that is, pumps and fans are switched off, flaps are reset to zero, and valves are closed.

When gas filling, follow the appropriate procedures as described in the documentation that is with the AC installation. Gas filling can only be done by authorized personnel.

## AC test/Gas charge

Step	Action	Indication	This is checked
1	<p>Press the two arrows simultaneously</p>  <p>Shortly thereafter, press AUTO and the flap button simultaneously.</p> 	 <p>If the indication is not achieved, check the cables between the Viper system and Display unit.</p>	That the Viper is in test mode and the roof valve is selected.
2	<p>Move to <b>Gas Ch 0</b> using the step arrows.</p>  <p>Change <b>Gas Ch 0</b> to <b>Gas Ch 1</b> by pressing the flap button</p> 	 	That the compressor, condenser fan and roof fans are working. If any unit is not working, perform the function test, page 2. in <i>Function control Viper Mark 1</i> , Sept. 2004 UWE Product information CD
3	<p>Press the button to read from the sensor (temperature) until the ceiling sensor is visible in the Viper display.</p> 	 <p>Check that the temperature goes down. You can now fill with coolant.</p>	That the AC is cooling the air in the ceiling channel. If not, check that no gas taps are closed. Check the amount of gas.
4	Press AUTO	To return to normal function	AC Test /Filling with gas is completed.