

Operating Instructions Speed Regulator





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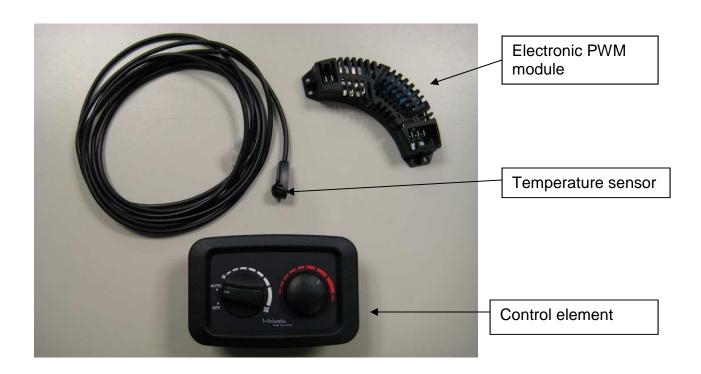
1. Warning

The speed regulator has been constructed in accordance with the latest technology and recognised safety technology rules. Nevertheless, inappropriate use may cause physical injury to the user or third parties i.e. damage to the equipment and other items. The speed regulator is only to be used for controlling fans.

2. Scope of delivery

The speed regulator is an electronic control element to regulate the number of revolutions depending on the temperature. It is supplied together with a control element, a temperature sensor, an electronic PWM module and connectors.





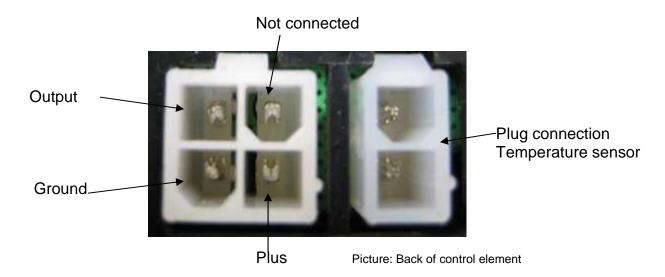
2.1 Control element



The rotary knob has 7 settings for the fan speed: Off, Automatic and five settings for manual control of the fan. The knob for temperature setting is variable. The indicators of both knobs light up in red.

At the back there are 2 plug connections, one 4-pole and one 2-pole.





2.2 Temperature sensor

The temperature sensor is supplied with a pre-assembled plug and a 3 metre cable.



The temperature sensor's housing is provided with a mounting hole.



2.3 Electronic module (diagram on page 8 refers)



The supply cables to the motor must be as short as possible (10 cm). The module is not dirt or moisture resistant which ought to be taken into consideration when choosing its installation location.

3. Use

Automatic

When set to "Auto" the speed regulator will regulate room temperature by varying the fan's speed. The higher the difference in temperature measured by the temperature sensor and the set temperature on the temperature selector, the faster the fan will turn

The number of revolutions will decrease when room temperature approaches the set temperature.

Manual

Using manual settings you can select five different revolution numbers. The number of revolutions increases or decreases evenly once a selection has been made.

The position of the temperature selector no longer affects the temperature setting.



4. Installation

4.1 Control element

Determine the installation position and make a hole measuring 98 x 63 mm (width x height). Remove the control element's cover by hooking your fingers behind it and pulling it off carefully.



Attach the 4-pole and 2-pole plugs to the corresponding connections. Tighten the control element by fastening it with least 2 screws diagonally opposite to each other.

4.2 Temperature sensor

The temperature sensor must be installed inside the room to be heated to a convenient location.

Pay attention to the following:

- Mount the sensor at a height of approx. 1.5 metres
- Not in direct sunlight
- Not in draughty locations
- Not in front of a heater's outlet

Select a fitting screw with a diameter of 3 mm max, of which the head does not exceed 5.5 mm. Do not fasten the screw too tight as this may damage the sensor's housing. Connect the sensor to the control element.



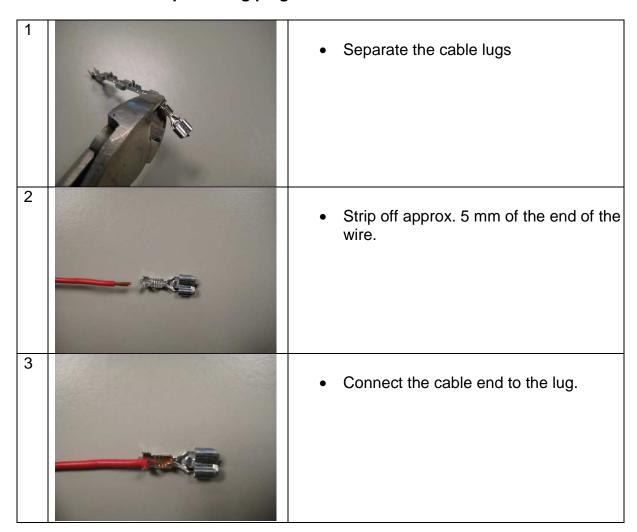
4.3 Electronic module

Choose a suitable installation place for the electronic module. Ensure that dirt and moisture cannot enter the module. Place the module as close to the motor as possible making the cables leading to the motor as short as possible (10 cm). Fit the module to the housing using screws or bolts. Ensure, when fastening or drilling,

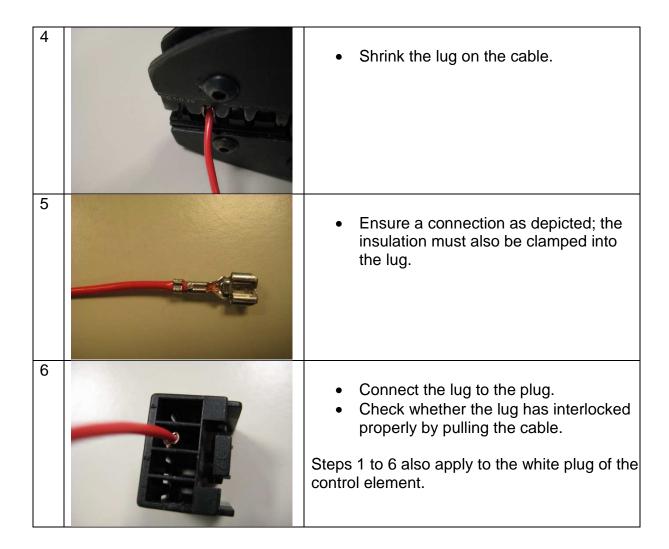
When connecting the module use cables with the same diameter as used for the motor.

that sensitive parts such as cables, hoses or radiators are not damaged.

4.4 Instructions for producing plug connections

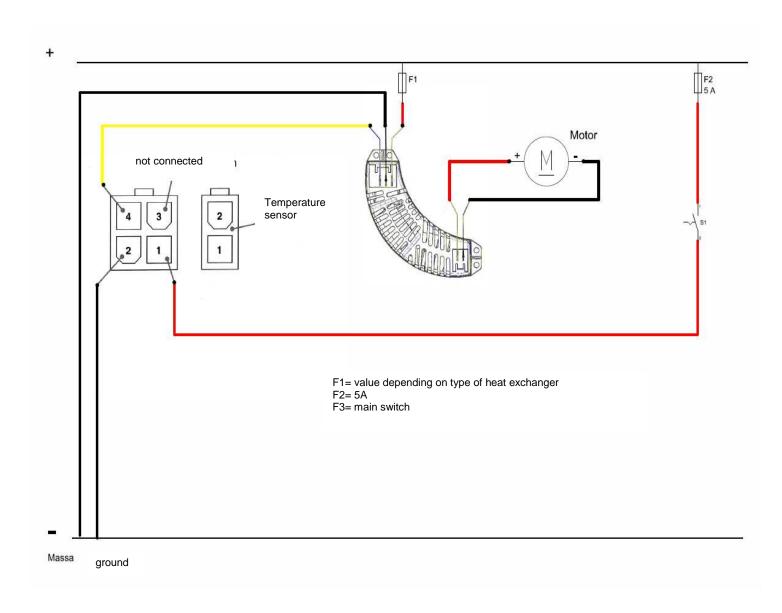








4.5 Wiring diagram





5. Overview of Webasto heat exchangers which can be used with the speed regulator.

Description	Article no.	Voltage	Dimensions	Regulator's position	Wire dia-
		(V)	(lxwxh)	(suggested)	meter (mm ²)
Florida 5	3200681A	12	269x122x198		
without	3200744A	12			
control	3200682A	24		Production of the second	2
	3200745A	24			
Viking	72004000	12	390x195x135		
	72005000	24			2.5
BB4	71174000	12	310x150x150	· ·	
	71174500	24		Month of the Control	1.5
BB8	71172000	12	480x305x170		
	71173000	24			2.5

There are application possibilities for other heat exchangers such as the Madera 3, 4 and 8 but a direct installation on the housing is not possible.

Warning: Ensure, when fastening or drilling the PWM module, that sensitive parts such as cables, hoses or fans are not damaged.



6 Trouble shooting list

symptom	cause	remedy
The fan is not turning	No voltage	Check the connections
The light of the rotary knobs		Check the power supply.
is not working		
The fan is not turning when in Automatic mode	Temperature sensor not connected or interrupted	
The fan shows delayed	This is normal	
reaction when turning the knobs		

Webasto Thermo & Comfort Benelux B.V. Constructieweg 47 8263 BC Kampen The Netherlands +31 (0)38-3371137 www.webasto.nl Info.nl@webasto.com

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