

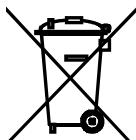


## *Environmental product declaration*

<b>Product</b>	Device type	<b>WRV81.xxx</b>	
	Designation	<b>Control and heating cost allocation valve</b>	
	Product range	<b>SYNERGYR</b>	
<b>Process control</b>	Siemens Building Technologies Ltd. Gubelstrasse 22, CH-6301 Zug		
	Management system certified	since	by
	ISO 14001 (environment)	<b>20 Oct. 1998</b>	<b>BSI</b>
	ISO 9001 (quality)	<b>22 July 1986</b>	<b>BSI</b>
<b>Product use</b>	Typical energy consumption per year	<b>approx. 25 kWh</b>	
	Maintenance	<b>none</b>	
	Environmental benefits	<b>see notes on page 2</b>	
<b>Environmental risk (fire)</b>	Fire protection as per	<b>EN 60730</b>	
	Fire load	<b>approx. 5 MJ</b>	
	Parts containing halogens (result in corrosive smoke)	<b>circuit board with components</b>	
<b>Packaging</b>	Paperboard, cardboard boxes, paper	<b>tucked bottom box</b>	<b>113 g</b>
		<b>liner</b>	<b>60 g</b>
		<b>mounting instructions</b>	<b>6 g</b>
	Notes on disposal	<b>can be recycled – marked on packaging</b>	

<b>Materials</b>		total weight of device	<b>2079 g</b>
Plastics	ABS, halogen-free, fiberglass-free	cover, motor mounting, strain relief, service plug	<b>61 g</b>
	SAN, halogen-free, fiberglass-free	window in cover	<b>2 g</b>
	POM, halogen-free, fiberglass-free	gear wheels 1, 6/7, 10, stem, 2 bushings	<b>21 g</b>
	PA66, halogen-free, fiberglass-free	gear wheels 4/5, 8/9, centering ring	<b>15 g</b>
	PC, halogen-free, fiberglass-free	guide on master circuit board	<b>3 g</b>
	EPDM	O-ring seals, seals	<b>9 g</b>
	Misc.	small parts	<b>&lt;1 g</b>
Metals	Die-cast zinc with polyester labels	gear housing	<b>748 g</b>
	Brass, up to 3% Pb	valve body, gland, delta-p cover, small parts	<b>847 g</b>
	Steel	board, shaft, stem, 4 axes, leaf spring, screws, small parts	<b>90 g</b>
Circuit board with components	FR4, containing halogens, SnPb solder	main and display circuit boards	<b>100 g</b>
	FR4, containing halogens, SnPb solder, with cable	sensor circuit board	<b>7 g</b>
<b>Special components</b>	DC motor	in motor mounting	<b>45 g</b>
	LCD, 2x5 cm, unlit	on display circuit board	(8 g)
	Electrolytic capacitors approx. 5 cm <sup>3</sup>	2 on main circuit board	(12 g)
	Connection cable 7 pole, PVC		<b>65 g</b>
	Sensor, Ni wire on PSU coil, in brass sleeve with PE/PUR cable	flow sensor 1522 mm return sensor 122 mm	<b>54 g</b> <b>11 g</b>

### Disposal



Do not dispose of the device as part of standard household garbage, but as special waste from electrical and electronic components. This particularly applies to electronic circuit boards.

Additionally, the law may mandate special treatment for specific components or special treatment may be ecologically sensible.

**Observe all local and applicable laws.**

### Notes

#### Environmental benefits

Supports individual heating cost calculations that, based on experience, achieve savings of up to 30% and more. Reduction of heating energy consumption by closing the integrated control valve outside the occupancy times and when there is excess heat in the unit.

#### **Legal disclaimer: This declaration is for information purposes only.**

The above information may be inaccurate or incomplete. Siemens Building Technologies Ltd. therefore does not assume liability for any error or any consequences which may arise from the use of this information to the maximum extent under the law.

If you require further information on environmental aspects and disposal, contact your local Siemens branch office.