



**ENERG** Y IJA  
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**STIEBEL ELTRON**

VRC-W 450 E  
Premium manual



49  
dB

450 m<sup>3</sup>/h

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2016

1254/2014

**Product datasheet: Mechanical ventilation units to regulation (EU) no. 1254/2014 | 1253/2014**

		<b>VRC-W 450 E Premium</b>
		204941
Manufacturer		STIEBEL ELTRON
Specific energy consumption in colder climates, manual control	kWh/(m <sup>2</sup> p.a.)	-70.70
Specific energy consumption in average climates, manual control	kWh/(m <sup>2</sup> p.a.)	-36.22
Specific energy consumption in warmer climates, manual control	kWh/(m <sup>2</sup> p.a.)	-13.84
Energy efficiency class in colder climates, manual control		A+
Energy efficiency class in average climates, manual control		A
Energy efficiency class in warmer climates, manual control		E
Ventilation unit type		WLA, Two directions
Drive type		Variable speed
Heat recovery method		Recovery
Rate of temperature change for heat recovery	%	77
Max. air flow rate	m <sup>3</sup> /h	450
Max. power consumption	W	116.5
Sound power level Lwa	dB(A)	49
Reference air flow rate	m <sup>3</sup> /s	0.087
Reference pressure differential	Pa	50
Specific input	W/(m <sup>3</sup> /h)	0.16
Control factor, manual control		1
Declared maximum internal leakage rates	%	1,10
Declared maximum external leakage rates	%	0.78
Annual power consumption in colder climates with manual control	kWh/a	782
Annual power consumption in average climates with manual control	kWh/a	245
Annual power consumption in warmer climates with manual control	kWh/a	200
Annual heating savings in colder climates with manual control	kWh/a	8153
Annual heating savings in average climates with manual control	kWh/a	4168
Annual heating savings in warmer climates with manual control	kWh/a	1885



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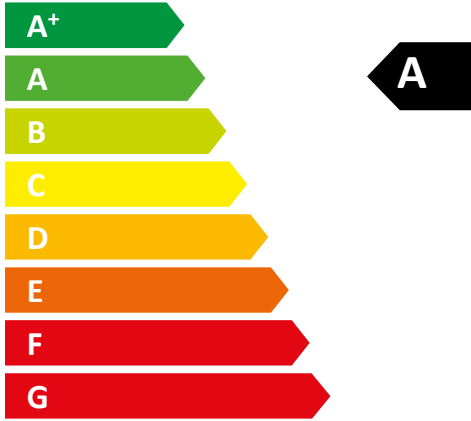
		<b>VRC-W 450 E Premium</b>
		204941
Manufacturer		STIEBEL ELTRON
Specific energy consumption in colder climates, time control	kWh/(m <sup>2</sup> p.a.)	-71.91
Specific energy consumption in average climates, time control	kWh/(m <sup>2</sup> p.a.)	-37.07
Specific energy consumption in warmer climates, time control	kWh/(m <sup>2</sup> p.a.)	-14.49
Energy efficiency class in colder climates, time control		A+
Energy efficiency class in average climates, time control		A
Energy efficiency class in warmer climates, time control		E
Ventilation unit type		WLA, Two directions
Drive type		Variable speed
Heat recovery method		Recovery
Rate of temperature change for heat recovery	%	77
Max. air flow rate	m <sup>3</sup> /h	450
Max. power consumption	W	116.5
Sound power level Lwa	dB(A)	49
Reference air flow rate	m <sup>3</sup> /s	0.087
Reference pressure differential	Pa	50
Specific input	W/(m <sup>3</sup> /h)	0.16
Control factor, time control		0,95
Declared maximum internal leakage rates	%	1,10
Declared maximum external leakage rates	%	0,78
Annual power consumption in colder climates with time control	kWh/a	763
Annual power consumption in average climates with time control	kWh/a	226
Annual power consumption in warmer climates with time control	kWh/a	181
Annual heating savings in colder climates with time control	kWh/a	8225
Annual heating savings in average climates with time control	kWh/a	4204
Annual heating savings in warmer climates with time control	kWh/a	1901



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		<b>VRC-W 450 E Premium</b>
		204941
Manufacturer		STIEBEL ELTRON
Specific energy consumption in colder climates, central demand-dependent control	kWh/(m <sup>2</sup> p.a.)	-74.24
Specific energy consumption in average climates, central demand-dependent control	kWh/(m <sup>2</sup> p.a.)	-38.71
Specific energy consumption in warmer climates, central demand-dependent control	kWh/(m <sup>2</sup> p.a.)	-15.72
Energy efficiency class in colder climates, central demand-dependent control		A+
Energy efficiency class in average climates, central demand-dependent control		A
Energy efficiency class in warmer climates, central demand-dependent control		E
Ventilation unit type		WLA, Two directions
Drive type		Variable speed
Heat recovery method		Recovery
Rate of temperature change for heat recovery	%	77
Max. air flow rate	m <sup>3</sup> /h	450
Max. power consumption	W	116.5
Sound power level Lwa	dB(A)	49
Reference air flow rate	m <sup>3</sup> /s	0.087
Reference pressure differential	Pa	50
Specific input	W/(m <sup>3</sup> /h)	0.16
Control factor, central demand-dependent control		0.85
Declared maximum internal leakage rates	%	1,10
Declared maximum external leakage rates	%	0.78
Annual power consumption in colder climates with central demand-dependent control	kWh/a	727
Annual power consumption in average climates with central demand-dependent control	kWh/a	190
Annual power consumption in warmer climates with central demand-dependent control	kWh/a	145
Annual heating savings in colder climates with central demand-dependent control	kWh/a	8368
Annual heating savings in average climates with central demand-dependent control	kWh/a	4278
Annual heating savings in warmer climates with central demand-dependent control	kWh/a	1934



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		<b>VRC-W 450 E Premium</b>
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Manufacturer		STIEBEL ELTRON
Specific energy consumption in colder climates, control subject to on-site requirements	kWh/(m <sup>2</sup> p.a.)	-78.61
Specific energy consumption in average climates, control subject to on-site requirements	kWh/(m <sup>2</sup> p.a.)	-41.68
Specific energy consumption in warmer climates, control subject to on-site requirements	kWh/(m <sup>2</sup> p.a.)	-17.89
Energy efficiency class in colder climates, control subject to on-site requirements		A+
Energy efficiency class in average climates, control subject to on-site requirements		A
Energy efficiency class in warmer climates, control subject to on-site requirements		E
Ventilation unit type		WLA, Two directions
Drive type		Variable speed
Heat recovery method		Recovery
Rate of temperature change for heat recovery	%	77
Max. air flow rate	m <sup>3</sup> /h	450
Max. power consumption	W	116.5
Sound power level L <sub>wa</sub>	dB(A)	49
Reference air flow rate	m <sup>3</sup> /s	0.087
Reference pressure differential	Pa	50
Specific input	W/(m <sup>3</sup> /h)	0.16
Control factor, control subject to on-site requirements		0.65
Declared maximum internal leakage rates	%	1,10
Declared maximum external leakage rates	%	0.78
Annual power consumption in colder climates with control subject to on-site requirements	kWh/a	667
Annual power consumption in average climates with control subject to on-site requirements	kWh/a	130
Annual power consumption in warmer climates with control subject to on-site requirements	kWh/a	85
Annual heating savings in colder climates with control subject to on-site requirements	kWh/a	8655
Annual heating savings in average climates with control subject to on-site requirements	kWh/a	4424
Annual heating savings in warmer climates with control subject to on-site requirements	kWh/a	2001