



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

VRC-W 450  
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 Premium</b>
		204940
Manufacturer		STIEBEL ELTRON
Specific energy consumption in colder climates, manual control	kWh/(m <sup>2</sup> p.a.)	-77.99
Specific energy consumption in average climates, manual control	kWh/(m <sup>2</sup> p.a.)	-39.64
Specific energy consumption in warmer climates, manual control	kWh/(m <sup>2</sup> p.a.)	-15.04
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	%	89.7
Max. air flow rate	m <sup>3</sup> /h	450
Max. power consumption	W	131.9
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)	0.18
Control factor, manual control		1
Declared maximum internal leakage rates	%	1.03
Declared maximum external leakage rates	%	0.78
Annual power consumption in colder climates with manual control	kWh/a	807
Annual power consumption in average climates with manual control	kWh/a	270
Annual power consumption in warmer climates with manual control	kWh/a	225
Annual heating savings in colder climates with manual control	kWh/a	8945
Annual heating savings in average climates with manual control	kWh/a	4550
Annual heating savings in warmer climates with manual control	kWh/a	2068



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		<b>VRC-W 450 Premium</b>
		204940
Manufacturer		STIEBEL ELTRON
Specific energy consumption in colder climates, time control	kWh/(m <sup>2</sup> p.a.)	-78.86
Specific energy consumption in average climates, time control	kWh/(m <sup>2</sup> p.a.)	-40.35
Specific energy consumption in warmer climates, time control	kWh/(m <sup>2</sup> p.a.)	-15.66
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	%	89.7
Max. air flow rate	m <sup>3</sup> /h	450
Max. power consumption	W	131.9
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)	0.18
Control factor, time control		0.95
Declared maximum internal leakage rates	%	1.03
Declared maximum external leakage rates	%	0.78
Annual power consumption in colder climates with time control	kWh/a	785
Annual power consumption in average climates with time control	kWh/a	248
Annual power consumption in warmer climates with time control	kWh/a	203
Annual heating savings in colder climates with time control	kWh/a	8977
Annual heating savings in average climates with time control	kWh/a	4589
Annual heating savings in warmer climates with time control	kWh/a	2075



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		<b>VRC-W 450 Premium</b>
		204940
Manufacturer		STIEBEL ELTRON
Specific energy consumption in colder climates, central demand-dependent control	kWh/(m <sup>2</sup> p.a.)	-80.52
Specific energy consumption in average climates, central demand-dependent control	kWh/(m <sup>2</sup> p.a.)	-41.69
Specific energy consumption in warmer climates, central demand-dependent control	kWh/(m <sup>2</sup> p.a.)	-16.83
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	%	89.7
Max. air flow rate	m <sup>3</sup> /h	450
Max. power consumption	W	131.9
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)	0.18
Control factor, central demand-dependent control		0.85
Declared maximum internal leakage rates	%	1,03
Declared maximum external leakage rates	%	0.78
Annual power consumption in colder climates with central demand-dependent control	kWh/a	745
Annual power consumption in average climates with central demand-dependent control	kWh/a	208
Annual power consumption in warmer climates with central demand-dependent control	kWh/a	163
Annual heating savings in colder climates with central demand-dependent control	kWh/a	9041
Annual heating savings in average climates with central demand-dependent control	kWh/a	4622
Annual heating savings in warmer climates with central demand-dependent control	kWh/a	2090



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		<b>VRC-W 450 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.)	-83.49
Specific energy consumption in average climates, control subject to on-site requirements	kWh/(m <sup>2</sup> p.a.)	-44.04
Specific energy consumption in warmer climates, control subject to on-site requirements	kWh/(m <sup>2</sup> p.a.)	-18.81
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	%	89.7
Max. air flow rate	m <sup>3</sup> /h	450
Max. power consumption	W	131.9
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)	0.18
Control factor, control subject to on-site requirements		0.65
Declared maximum internal leakage rates	%	1.03
Declared maximum external leakage rates	%	0.78
Annual power consumption in colder climates with control subject to on-site requirements	kWh/a	677
Annual power consumption in average climates with control subject to on-site requirements	kWh/a	140
Annual power consumption in warmer climates with control subject to on-site requirements	kWh/a	95
Annual heating savings in colder climates with control subject to on-site requirements	kWh/a	9169
Annual heating savings in average climates with control subject to on-site requirements	kWh/a	4687
Annual heating savings in warmer climates with control subject to on-site requirements	kWh/a	2119