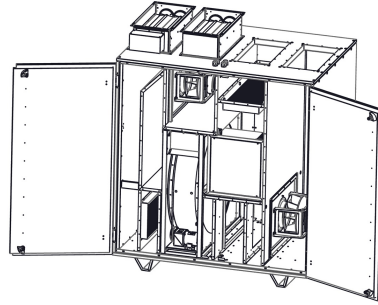


## Energy recovery unit Blauair BL02 RV 1500



		<b>Supply</b>	<b>Extract</b>
Air flow	[ cfm ]	1000	1000
External pressure	[ in. WG ]	1	1
Inlet temperature, summer	[ F ]	85	70
Relative humidity, summer	[ % ]	40	50
Inlet temperature, winter	[ F ]	5	70
Relative humidity, winter	[ % ]	90	40
After heat exchanger temperature, summer	[ F ]	72.79	82.2
Exchange efficiency dry, summer	[ % ]	81.4	81.4
After heat exchanger temperature, winter	[ F ]	57.87	17.4
Exchange efficiency dry, winter	[ % ]	81.34	80.9
Unit SFP	[ cfm/W ]	0.82	
Heating type		None	

## Heat exchanger

Rotary aluminum heat exchanger class H1 (DIN EN 13053)

Supply			Extract		
Temperature after heat exchanger	[ F ]	72.79	Temperature after heat exchanger	[ F ]	82.2
Relative humidity after heat exchanger	[ % ]	59.94	Relative humidity after heat exchanger	[ % ]	33.43
Exchange efficiency dry	[ % ]	81.4	Exchange efficiency dry	[ % ]	81.4
Exchange efficiency wet	[ % ]	0	Exchange efficiency wet	[ % ]	0
Heat recovery wet	[ kBTU/hr ]	-13.31			
Supply			Extract		
Temperature after heat exchanger	[ F ]	57.87	Temperature after heat exchanger	[ F ]	17.4
Relative humidity after heat exchanger	[ % ]	23.51	Relative humidity after heat exchanger	[ % ]	100
Exchange efficiency dry	[ % ]	81.34	Exchange efficiency dry	[ % ]	80.9
Exchange efficiency wet	[ % ]	27	Exchange efficiency wet	[ % ]	80
Heat recovery wet	[ kBTU/hr ]	63.67			

## Fans, winter

EC fan, backward curved impeller

Phase/voltage [50/60Hz/VAC] ~1, 200/277

Sound pressure level at 3 meters to environment 41 db(A)

Insulation class B

Motor protection class IP 54

Supply fan, winter			Extract fan, winter		
RPM	[ 1/min ]	2646.73	RPM	[ 1/min ]	2675.91
Electric power consumption, Pe	[ kBTU/h ]	1.38	Electric power consumption, Pe	[ kBTU/h ]	1.42
Current, I	[ A ]	2.63	Current, I	[ A ]	2.71
Total fan pressure, Pf	[ in. WG ]	1.84	Total fan pressure, Pf	[ in. WG ]	1.91
Static fan pressure, Psf	[ in. WG ]	1.69	Static fan pressure, Psf	[ in. WG ]	1.77
Static fan efficiency $\eta_{es}$	[ % ]	49.41	Static fan efficiency $\eta_{es}$	[ % ]	49.97
Number of fans		1	Number of fans		1

Fans sound power, winter Lw, (dB)

Hz	62.5	125	250	500	1000	2000	4000	8000	LwA
Inlet	62	60	67	67	65	65	66	61	72
Outlet	64	62	68	68	72	73	71	65	78

Fans sound power, winter Lw, (dB)

Hz	62.5	125	250	500	1000	2000	4000	8000	LwA
Inlet	62	60	67	68	65	65	66	61	72
Outlet	65	62	68	69	72	73	71	65	78

## SFP, winter

Unit external SFP, real at operation point [ cfm/W ] 0.82

## Filter

Filter, class (EN779) F7, Frames 253x403x48, panel type, PP+PET,

## Dampers

Multi-blade damper for air flow control

The housing made of galvanized steel. The aluminium blades driven by plastic gearwheels. Lever with removable metal handle and fixing clamp. Standard connection flange for rectangular air ducts or other ventilation system components. Flanges should be connected with galvanized bolts and clamps.

## Casing

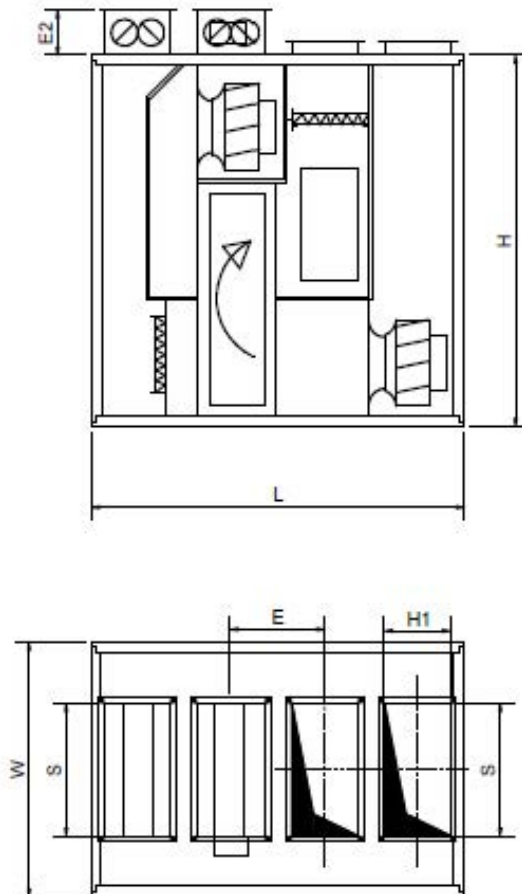
Double skin frameless casing with 40 mm mineral wool 90 kg/m<sup>3</sup>; non-flammable; outer skin: zinc-aluminum; inner skin: zinc-aluminum; EN1886 class: D1, T2, TB2; corrosion resistance according to ISO 12944: class C4. Insulation class B

L	W	H	S	H1	E2	S1	S2	S3	E
1400	960	1400	500	250	170	350	360	600	350

**Unit Weight** (without water cooler , DX coil, water heater), [Kg] - 307

**DX coil/water cooler weight**, [Kg] - 34

**Water heater weigh** , [Kg] - 30





ERP		
Trade mark		Blauberg
Model		Energy recovery unit Blauair BL02 RV 1500
Declared typology		NRVU BVU
Type of drive installed		Integrated MSD
Type of heat recovery system		Regenerative
Thermal efficiency of heat recovery	[ % ]	81.34
Supply flow rate	[ cfm ]	1000
Effective electric power input	[ HP ]	1.1
SFPint	[ cfm/W ]	0.35
Face velocity at design flow rate	[ f/m ]	5.03
External pressure	[ in. WG ]	1
Internal pressure drop of ventilation components	[ in. WG ]	0.69
Static efficiency of fans	[ % ]	49.41
Maximum leakage rates	[ % ]	2.7
Maximum leakage rates	[ % ]	2.7
Filtration class		B
Visual filter warning		Visual filter warning
Sound power level	[ db ]	79.12
Internet address		<a href="http://blaubergventilatoren.de/">http://blaubergventilatoren.de/</a>

Erp 2018 compliant according to Commission Regulation EU No 1253/2014, 7 July 2014