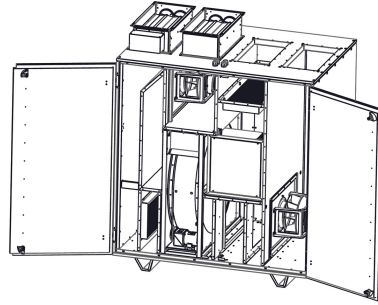


Energy recovery unit Blauair BL02 RV 2500



		Supply	Extract
Air flow	[cfm]	1500	1500
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]	73.62	81.37
Exchange efficiency dry, summer	[%]	75.87	75.9
After heat exchanger temperature, winter	[F]	54.21	21.06
Exchange efficiency dry, winter	[%]	75.72	75.3
Unit SFP	[cfm/W]	0.81	
Heating type		None	

Heat exchanger

Rotary aluminum heat exchanger class H1 (DIN EN 13053)

Supply			Extract		
Temperature after heat exchanger	[F]	73.62	Temperature after heat exchanger	[F]	81.37
Relative humidity after heat exchanger	[%]	58.29	Relative humidity after heat exchanger	[%]	34.34
Exchange efficiency dry	[%]	75.87	Exchange efficiency dry	[%]	75.9
Exchange efficiency wet	[%]	0	Exchange efficiency wet	[%]	0
Heat recovery wet	[kBTU/hr]	-18.6			
Supply			Extract		
Temperature after heat exchanger	[F]	54.21	Temperature after heat exchanger	[F]	21.06
Relative humidity after heat exchanger	[%]	27.96	Relative humidity after heat exchanger	[%]	100
Exchange efficiency dry	[%]	75.72	Exchange efficiency dry	[%]	75.3
Exchange efficiency wet	[%]	29	Exchange efficiency wet	[%]	73
Heat recovery wet	[kBTU/hr]	90.32			

Fans, winter

EC fan, backward curved impeller
 Phase/voltage [50/60Hz/VAC] ~1, 200/277
 Sound pressure level at 3 meters to environment 44 db(A)
 Insulation class B
 Motor protection class IP 54

Supply fan, winter			Extract fan, winter		
RPM	[1/min]	2384.43	RPM	[1/min]	2420.03
Electric power consumption, Pe	[kBTU/h]	2.02	Electric power consumption, Pe	[kBTU/h]	2.13
Current, I	[A]	2.6	Current, I	[A]	2.74
Total fan pressure, Pf	[in. WG]	2.13	Total fan pressure, Pf	[in. WG]	2.25
Static fan pressure, Psf	[in. WG]	1.97	Static fan pressure, Psf	[in. WG]	2.08
Static fan efficiency η_{es}	[%]	58.68	Static fan efficiency η_{es}	[%]	58.95
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	64	72	70	71	68	66	60	58	73
Outlet	69	77	75	76	73	71	65	63	78

Fans sound power, winter Lw, (dB)

Hz	62.5	125	250	500	1000	2000	4000	8000	LwA
Inlet	64	73	70	71	68	66	61	58	73
Outlet	69	78	75	76	73	71	66	63	78

SFP, winter

Unit external SFP, real at operation point [cfm/W] 0.81

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

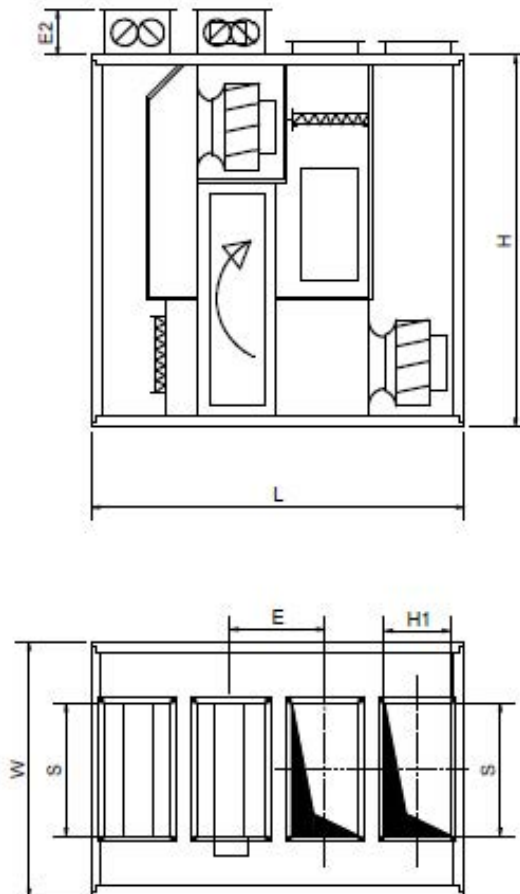
Double skin frameless casing with 40 mm mineral wool 90 kg/m³; non-flammable; outer skin: zinc-aluminum; inner skin: zinc-aluminum; EN1886 class: D1, T2, TB2; corrosion resistance according to ISO 12944: class C4. Insulation class B

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 2500
Declared typology		NRVU BVU
Type of drive installed		Integrated MSD
Type of heat recovery system		Regenerative
Thermal efficiency of heat recovery	[%]	75.72
Supply flow rate	[cfm]	1500
Effective electric power input	[HP]	1.63
SFPint	[cfm/W]	0.41
Face velocity at design flow rate	[f/m]	7.54
External pressure	[in. WG]	1
Internal pressure drop of ventilation components	[in. WG]	0.97
Static efficiency of fans	[%]	58.68
Maximum leakage rates	[%]	2.7
Maximum leakage rates	[%]	2.7
Filtration class		B
Visual filter warning		Visual filter warning
Sound power level	[db]	79.21
Internet address		http://blaubergventilatoren.de/

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