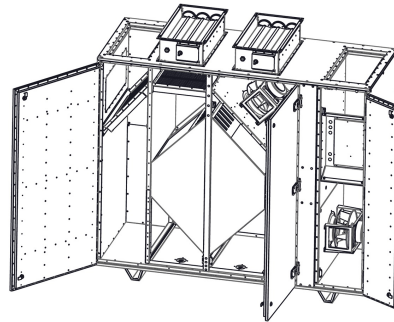


Heat recovery unit Blauair BL02 CFV 2500



		Supply	Extract
Air flow	[cfm]	1200	1200
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]	73.25	82.12
Exchange efficiency dry, summer	[%]	78.31	80.8
After heat exchanger temperature, winter	[F]	64.45	31.65
Exchange efficiency dry, winter	[%]	84.44	73.54
Unit SFP	[cfm/W]	0.83	
Heating type		None	

Heat exchanger

Counterflow aluminum plate heat exchanger

Eurovent certified heat recovery efficiency

Removable drain pans on both supply and extract

Automatic full-size by-pass

Supply			Extract		
Temperature after heat exchanger	[F]	73.25	Temperature after heat exchanger	[F]	82.12
Relative humidity after heat exchanger	[%]	58.84	Relative humidity after heat exchanger	[%]	33.49
Condensation	[kg/h]	0	Condensation	[kg/h]	0
Exchange efficiency dry	[%]	78.31	Exchange efficiency dry	[%]	80.8
Exchange efficiency wet	[%]	78.31	Exchange efficiency wet	[%]	80.8
Heat recovery dry	[kBTU/hr]	-15.42			
Heat recovery wet	[kBTU/hr]	-15.42			
Supply			Extract		
Temperature after heat exchanger	[F]	64.45	Temperature after heat exchanger	[F]	31.65
Relative humidity after heat exchanger	[%]	7.23	Relative humidity after heat exchanger	[%]	100
Condensation	[kg/h]	0	Condensation	[kg/h]	-7.41
Exchange efficiency dry	[%]	84.44	Exchange efficiency dry	[%]	73.54
Exchange efficiency wet	[%]	91.46	Exchange efficiency wet	[%]	59
Heat recovery dry	[kBTU/hr]	60.7			
Heat recovery wet	[kBTU/hr]	67.7			

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		
RPM	[1/min]	2168.66
Electric power consumption, Pe	[kBTU/h]	1.59
Current, I	[A]	2.05
Total fan pressure , Pf	[in. WG]	2.04
Static fan pressure , Psf	[in. WG]	1.94
Static fan efficiency η_{es}	[%]	58.73
Number of fans		1

Extract fan, winter		
RPM	[1/min]	2262.76
Electric power consumption, Pe	[kBTU/h]	1.8
Current, I	[A]	2.32
Total fan pressure , Pf	[in. WG]	2.3
Static fan pressure , Psf	[in. WG]	2.2
Static fan efficiency η_{es}	[%]	58.95
Number of fans		1

Fans sound power, winter Lw, (dB)

Hz	62.5	125	250	500	1000	2000	4000	8000	LwA
Inlet	62	72	67	68	65	63	57	53	70
Outlet	67	77	72	73	70	68	62	58	75

Fans sound power, winter Lw, (dB)

Hz	62.5	125	250	500	1000	2000	4000	8000	LwA
Inlet	63	72	68	69	66	64	58	55	71
Outlet	68	77	73	74	71	69	63	60	76

SFP, winter		
Unit external SFP, real at operation point	[cfm/W]	0.83

Filter

Filter, class (EN779) F7, Frames 253x603x48, 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

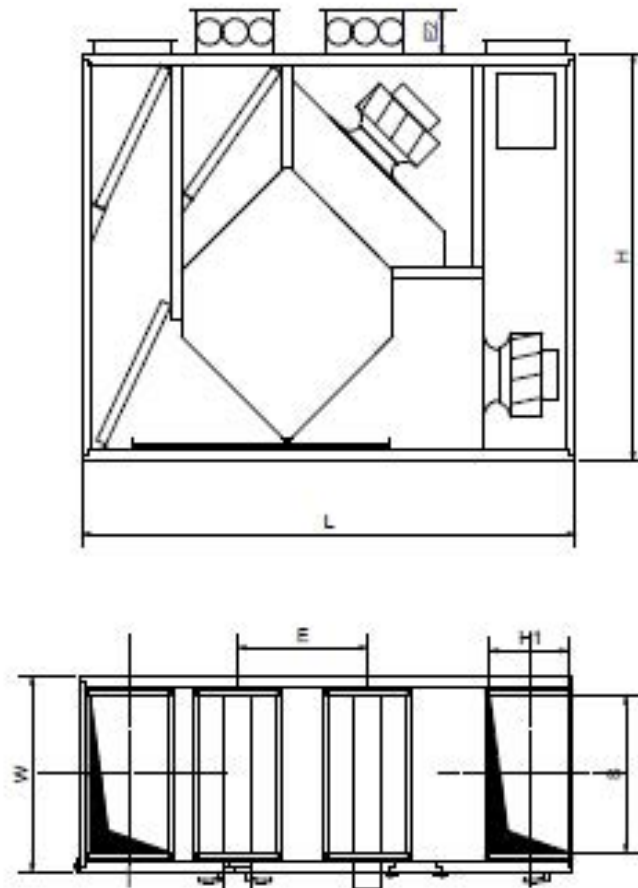
Double skin frameless casing with 40 mm mineral wool 90 kg/m³; non-flammable; outer skin: zinc-aluminum; inner skin: zinc-aluminum; EN1886 class: D1, T2, TB2; corrosion resistance according to ISO 12944: class C4. Insulation class B

L	W	H	S	H1	E2	S1	S2	S3	E
1950	750	1550	600	300	170	350	360	600	500

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		Heat recovery unit Blauair BL02 CFV 2500
Declared typology		NRVU BVU
Type of drive installed		Integrated MSD
Type of heat recovery system		Regenerative
Thermal efficiency of heat recovery	[%]	84.44
Supply flow rate	[cfm]	1200
Effective electric power input	[HP]	1.33
SFPint	[cfm/W]	0.43
Face velocity at design flow rate	[f/m]	5.7
External pressure	[in. WG]	1
Internal pressure drop of ventilation components	[in. WG]	0.94
Static efficiency of fans	[%]	58.73
Maximum leakage rates	[%]	2.7
Maximum leakage rates	[%]	2.7
Filtration class		B
Visual filter warning		Visual filter warning
Sound power level	[db]	76.44
Internet address		http://blaubergventilatoren.de/

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