



# BL SERIES

## Heat Recovery Unit with Rotary Heat Exchanger

Heat recovery ventilator with rotary aluminum plate heat exchanger for 300 to 6000 CFM. Complete with high efficiency EC external rotor motors and Carel plug and play control. Designed for light commercial applications with indoor and outdoor mounting options.



### CASING

Double skin; frameless, 1 9/16 inch; mineral wool 5.62 lb/ft<sup>3</sup>; non-flammable; Outer/Inner skin: zinc-aluminum, EN1886 class: D1, T2, TB2; corrosion resistant according to ISO 12944: class C4.

### CONTROLS

Integrated plug and play Carel control unit is supplied ready for operation for all necessary control elements.

### SPECIFICATIONS

### FEATURES

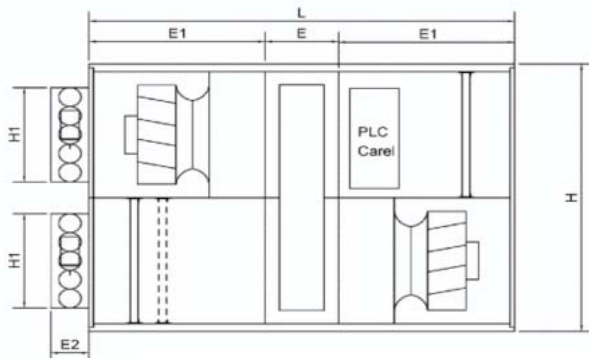
- High efficiency rotor aluminum plate heat exchanger up to 87% thermal efficiency
- High efficiency EC fans with backward-curved wheels and external rotor motors
- Motors IP54 with F insulation class
- Integrated Belimo controlled dampers
- Automatic full size bypass
- Insulated double skin frameless casing
- Exhaust and supply panel filters MERV8 standard with optional MERV13 and MERV15
- Hinged service doors - on right side (standard) with left side optional
- Removable drain pans on both supply and exhaust
- Optional outdoor installation mounting kit
- Web-interface, MODBUS, outputs for optional DX or Hydronic cooling/heating.

Model	Nominal Airflow (CFM)	Efficiency @Nominal	Minimum Airflow (CFM)	Recommended Airflow (CFM)	Maximum Airflow (CFM)	EC Motors					Sound Pressure Level @ 1M away dB(A)
						Voltage/Phase/Hz	HP/Amps	RPM	Perm. ambient air temp. (°F)	Motor sound power level to outlet dB(A)	
BL02-1500	880	83%	300	1237	1412	120V/1/60Hz	2 x .75HP/3A	2400	-13 to +104	74	41
BL02-2500	1470	76%	300	1780	2003		2x1HP/3.75A	2300		75	43
BL03-3500	2060	81%	600	2356	2945	230V/3/60Hz	2x2HP/1.8A	2000	-40 to +140	76	44
BL07-5000	2940	79%	600	3240	4653		2x2HP/2.1A	1200	-40 to +122	71	39
BL07-6000	3530	75%	600	4064	5885		2x5HP/4A	1300		77	46

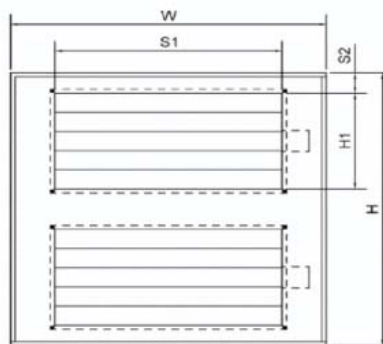
### DIMENSIONS

MODEL	DIMENSIONS								
	L	W	H	H1	S1	S2	E	E1	E2
BL02-1500	51 3/16"	37 13/16"	37 13/16"	13 3/4"	23 5/8"	2 1/4"	11 7/16"	19 7/8"	6 11/16"
BL02-2500	51 3/16"	37 13/16"	37 13/16"	13 3/4"	23 5/8"	2 1/4"	11 7/16"	19 7/8"	6 11/16"
BL03-3500	51 1/4"	50 3/4"	49 1/2"	13 3/4"	23 3/4"	8"	11 1/2"	20"	6 3/4"
BL07-5000	75 3/16"	54 3/4"	55 3/4"	19 11/16"	36 3/8"	4 1/8"	13"	31 1/8"	6 11/16"
BL07-6000	75 3/16"	54 3/4"	54 3/4"	19 11/16"	36 3/8"	4 1/8"	13"	31 1/8"	6 11/16"

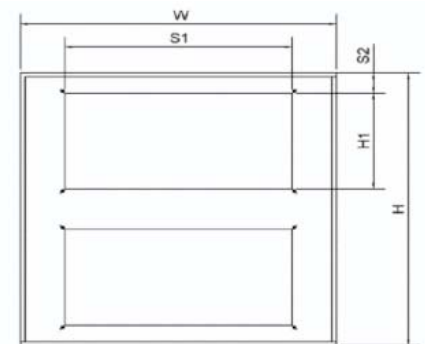
SERVICE SIDE PANEL VIEW



DAMPER SIDE VIEW



END VIEW



### ACCESSORIES

Silencers, VAV, CAV, flexible duct connectors, filter pressure switch, DX coil, cooling or heating coil, grills, base feet for floor mount, roof mount, weather hood.