

The brand new premium line of commercial heat recovery air handling units for floor mounting with the high-efficient counter-flow heat exchanger. Provides 2943 CFM airflow capacity. Optionally accomplished with no heater (CFH series), electric heater (CFH-HE series) or water heater (CFH-HW series) and ready for operation with all necessary control elements.

FANS

High-efficient EC fans. Impellers with backward curved blades. Low power consumption at any speed, silent stable operation in any climate conditions.

CONTROL

The integrated plug-and-play controls on the basis of the Carel kVent controller. Easy connecting via web-interface using the Ethernet-Modbus and BACnet.

PLUG FAN CASING

The casing panels are made of steel with zinc-aluminium coating and internally lined with 1^{9/16}" heat- and sound-insulating mineral wool layer. The unit has C4 corrosion resistance class in compliance with ISO 12944. Each model is available in left- and right-handed modifications. The unit has service access on both sides and on the bottom.

HEAT EXCHANGER

High-efficient counter-flow heat exchanger is made of profiled aluminium plates and is impregnated with elastic heat-resistant sealant. The stainless steel drain pan is located on the inlet and outlet sides.

CONTROL PANELS

- A30 th-Tune: standard control panel with handy interface ensures basic setup of parameters.
- A32 pGDe: control panel with expanded functionality ensures complete setup of parameters.

FILTERS

Washable MERV 13 panel filters in exhaust and supply air streams.

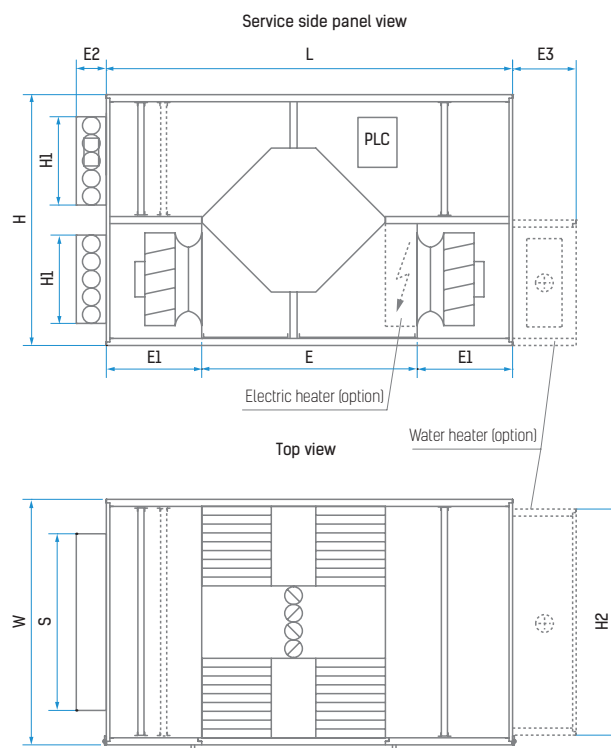


BYPASS AND DAMPERS

100% bypass of the heat exchanger with automatic damper and Belimo actuator ensures active freeze protection. Free heating and cooling functions are also available. Built-in automatic external air dampers with Belimo actuators.

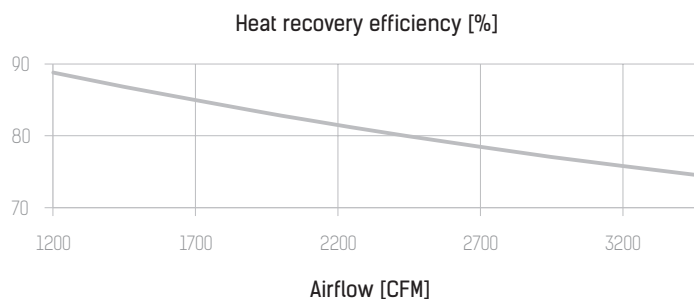
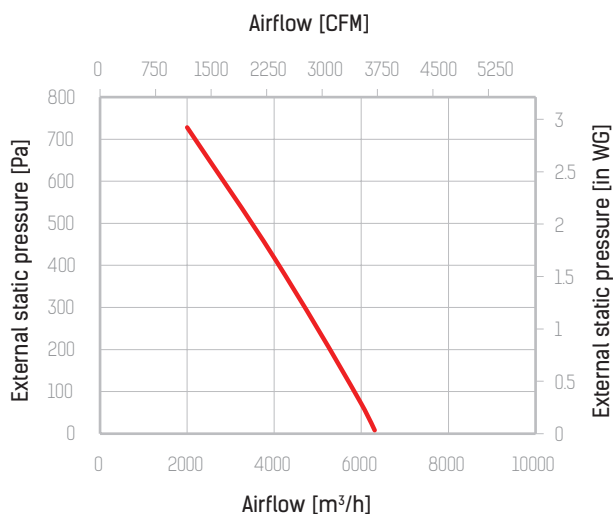
DIMENSIONS

Measurements [in]							
L	W	H	H1	S	H2 (Optoin)	E2	E3 (Optoin)
90 9/16"	54 3/4"	55 15/16"	19 11/16"	39 3/8"	50 3/8"	6 11/16"	14 3/16"



TECHNICAL DATA

Model		CFH 5000
Nominal airflow [CFM]		2943
EC fans	Phase/voltage [50/60Hz/VAC]	~3.380/480
	Power/current [kW/A]	2x1.32/2.1
	Fan speed [min^{-1}]	1350
	Permissible ambient temperature [$^{\circ}\text{F}$]	-31...+122
	Motor protection	IP54
	Insulation class	F
	Motor sound power level to outlet [Sones]	20
	SFP @ nominal airflow, max. pressure [$\text{kW}/(\text{m}^3/\text{s})$]	2x0.946
Filter class exhaust/supply standard (optional)		MERV13 (MERV8)/MERV13 (MERV8)
Weight (net, without packaging) [lb]		1260
Protection class		IP34
Sound pressure level @ 1 ft to environment [Sones]		2.2


Sound power L_w in dB

Environment	66	65	62	52	33	53	48	51	59
Outlet	68	69	70	68	65	64	61	58	71
Hz	63	125	250	500	1000	2000	4000	8000	L_{wA}

MODEL	QUANTITY	COMMENTS	PROJECT
			location:
			architect:
			engineer:
			contractor:
			submitted by: