

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<sup>9/16</sup>" 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.



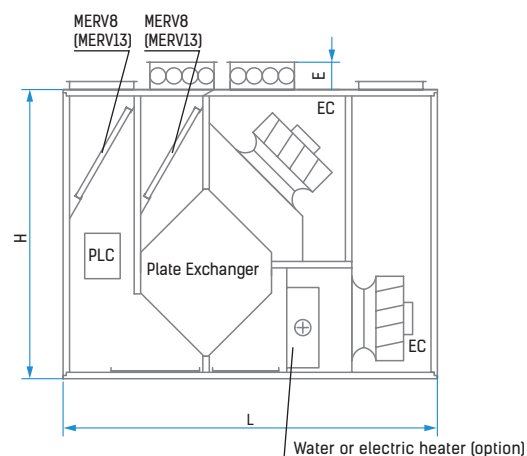
## BYPASS AND DAMPERS

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.

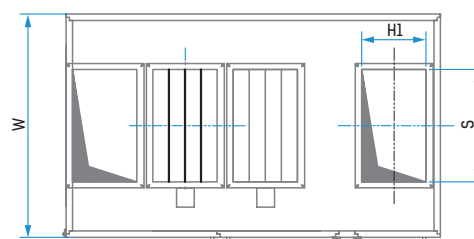
## DIMENSIONS

| Measurements [in] |         |         |         |          |           |
|-------------------|---------|---------|---------|----------|-----------|
| L                 | W       | H       | H1      | S        | E         |
| 91 3/4"           | 54 3/4" | 70 7/8" | 15 3/4" | 27 9/16" | 19 11/16" |

Service Side panel view

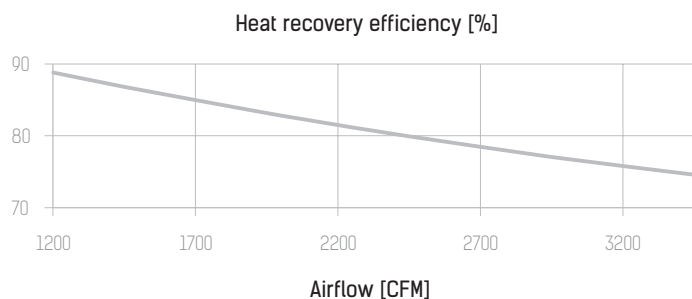
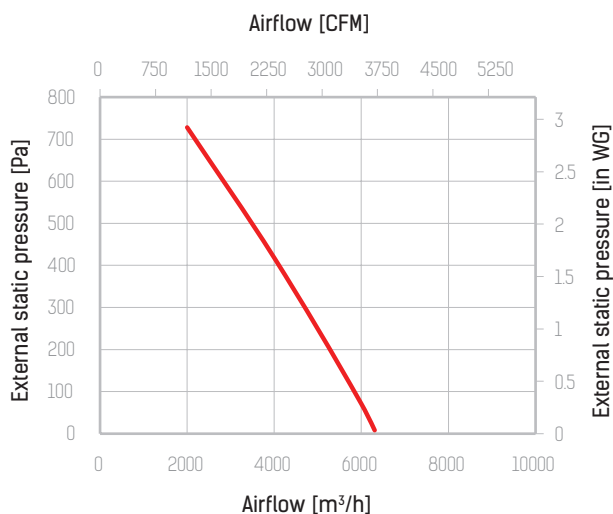


Top view



**TECHNICAL DATA**

| Model                                              |                                                                            | CFV 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 [ $\text{min}^{-1}$ ]                                            | 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]               |                                                                            | 800                           |
| 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: |