



AZ-CFH5000

FLOOR MOUNTED HEAT RECOVERY AIR HANDLING UNITS

DESCRIPTION

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 (AZ-CFH series), electric heater (AZ-CFH-HE series) or water heater (AZ-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 ^{19/16}" 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

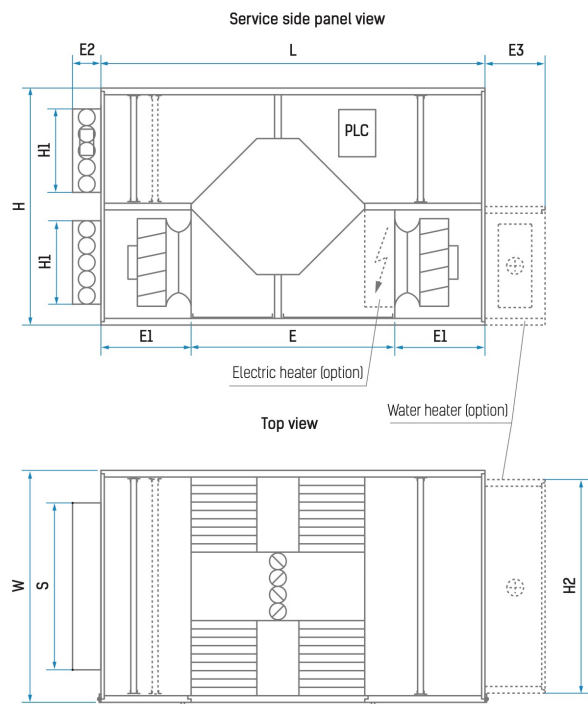
Washable MERV 13 panel filters in exhaust and supply air streams.

BYPASS & 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} " |



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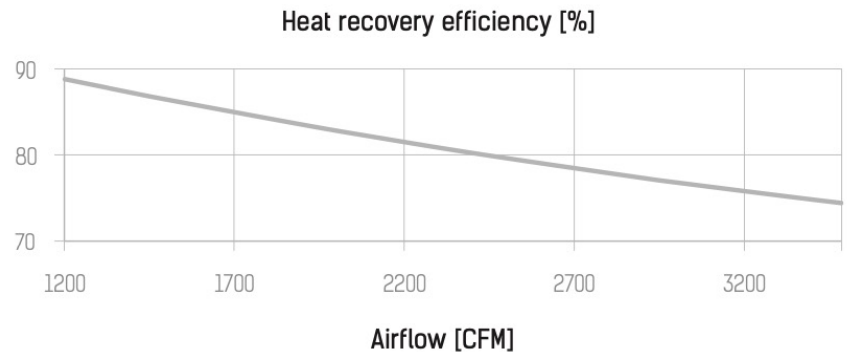
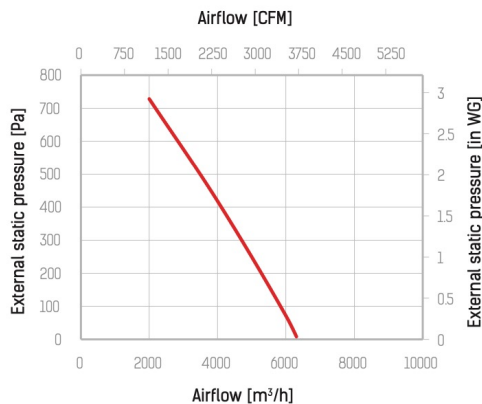


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TECHNICAL DATA

| 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 [°F] | -31...+122 |
| | Motor protection | IP54 |
| | Insulation class | F |
| | Motor sound power level to outlet [Sones] | 20 |
| | SFP @ nominal airflow, max. pressure [$\text{kW}/(\text{m}^3/\text{s})$] | 2x.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 Lw 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 | LwA |

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