FCU – Vertikaler Gebläsekonvektor

Discontinued product

Overview

- Electric reheaters up to 1200W
- Silent and stepless fan operation
- Integrated electrical connectors
- Total cooling capacity up to 1250W
- Recycled air range up to 235 m^3/h
- Air connections and fan type can be tailored according to customer's specifications
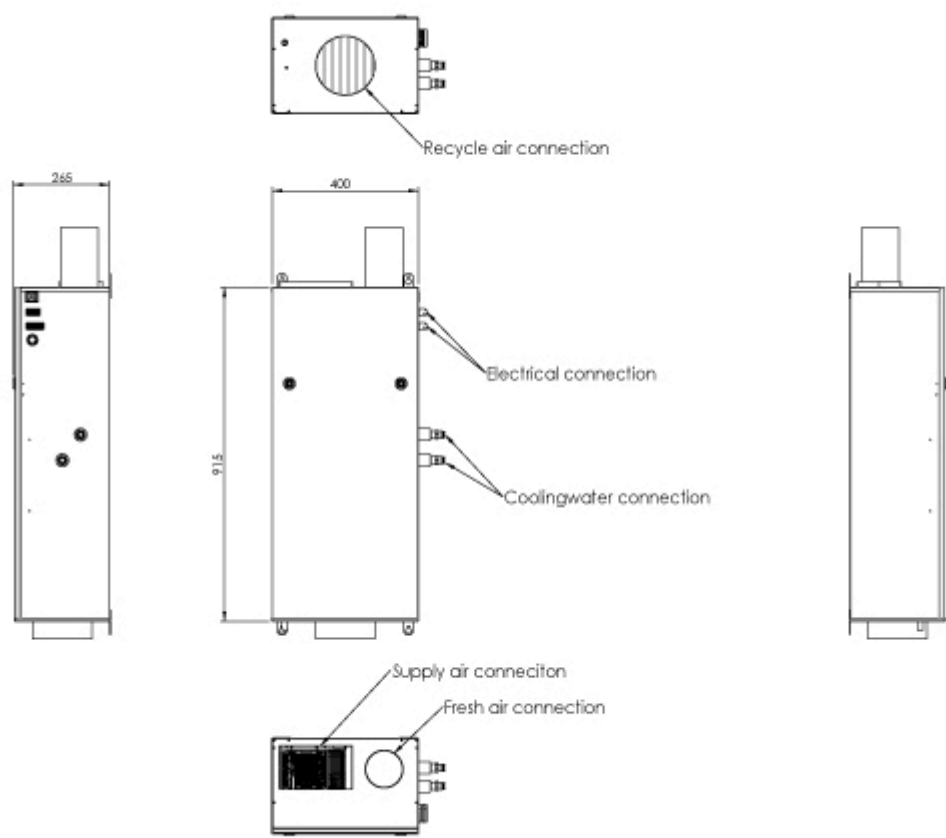
Specification

Halton FCU fancoil is a cabin ventilation solution for demanding marine applications. The FCU units can be tailored to customer demands according to the needed integration and requirements. Dimensions, capacities and functionality details can be modified to project specific. The FCU vertical fancoil together with Halton return and supply grilles have been specifically designed for silent cabin comfort with sophisticated air treatment and control. An advanced digital room temperature control system with stepless fan speed control and heating/ cooling power regulation completes the solution.

To ensure easy installation in prefabricated cabins, FCU can be installed e.g. in the toilet block in the vertical position. In addition to better sound attenuation, this offers easy access to the unit without disturbing passengers.

The manufacturing method and innovative, compact design allow fancoil units to be modified for any situation. FCU is capable of distributing airflows up to 360 m3/h. The unit's operating voltage is 230 VAC ±10%, 50/60 Hz.

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Dimensions

Recycle air connection

265

400

915

Electrical connection

Coolingwater connection

Supply air conneciton

Fresh air connection

Please note: Sizes and positions of air and water connections can be tailored according to customers' needs.

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Material

PART	MATERIAL
Structure	Galvanized steel. Inner surface insulated with marine mineral wool
	Stainless steel drip tray EN 1.4404 (AISI316L) or antibacterial plastic with rounded corners for easy cleaning, insulated to prevent condensation
	Maintenance hatch enable access to filter, cooling coil, fan and electrical reheaters
Components	A return air filter according to requested class
	Tubes and finning of cooling coil made of copper. Casing of the cooling coil copper or stainless steel EN 1.4404 (AISI316L)
	An electric reheater with safety switch (manual reset)
Water set	A 2-way PICV or 3-way control valve
	Quick water connections or customer specific water connections
	Flow control valve

Accessories

Communication adapter

- Bluetooth communication to external device
- For wireless connection to set cabin unit parameters and trouble shooting

Network adapters

- Network adapter (also available as WiFi) expands a stand-alone unit to network compatible unit (LON or Ethernet network)
- Enables supervision and advanced energy efficiency functions
- For more information, see Halton Networks for cabin ventilation -brochure or contact Halton Marine Sales office

Control panel features

Halton Marine FCU cabin units are available with three different control panel models; with rotating knob, push buttons with LED bar graph (available as option: IP56) and push buttons with LCD-display.

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Common features

- Balcony door and keycard switch available as an option
- Cabin temperature measurement
- Connector for Bluetooth / communication adapter to set cabin parameters
- Software for parameter setting and trouble shooting
- Different colour options and custom labeling available as an option
- Delivered with IC-Cable (interconnection cable)
  - For control panel – cabin unit connection
  - Prefabricated with plugs on both ends
  - Cable plug on panel end is designed to be pulled through standard installation pipe
  - Halogen free and flame-retardant
  - Standard length 7 meters
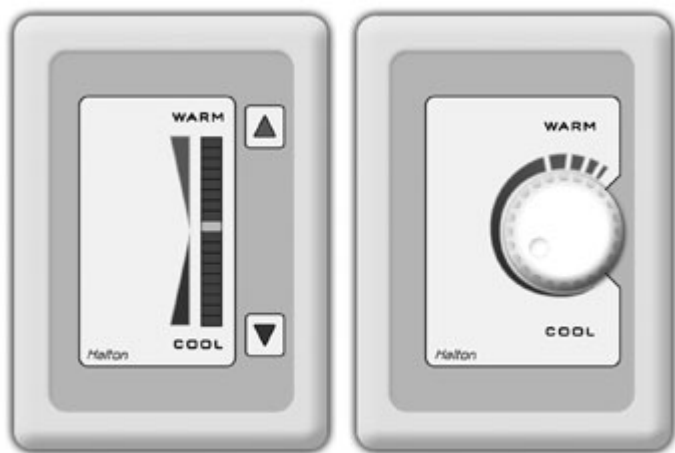
Control panel with rotating knob

- Temperature adjustment by rotating knob

Control panel with push buttons and LED bar graph

- Temperature adjustment by push buttons
- Self diagnose function
- LED intensity control and auto dimming

Control panel with push buttons and LCD-display

- Temperature adjustment by touch buttons
- Self diagnose function
- LCD intensity control and auto dimming
- Display for actual and set point temperatures available as an option
- Time display available as an option
- A customized background picture available as an option
- Several frame options available

Control panel models: push button and rotating knob

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LCD control panel

Overheat Protection

If minimum airflow alarm is active (e.g. low fan speed), reheaters will not heat (see diagram).

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