

Halton Rex R6W, variable air volume chilled beam – Technical description

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1 Introduction

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1.2 About this document

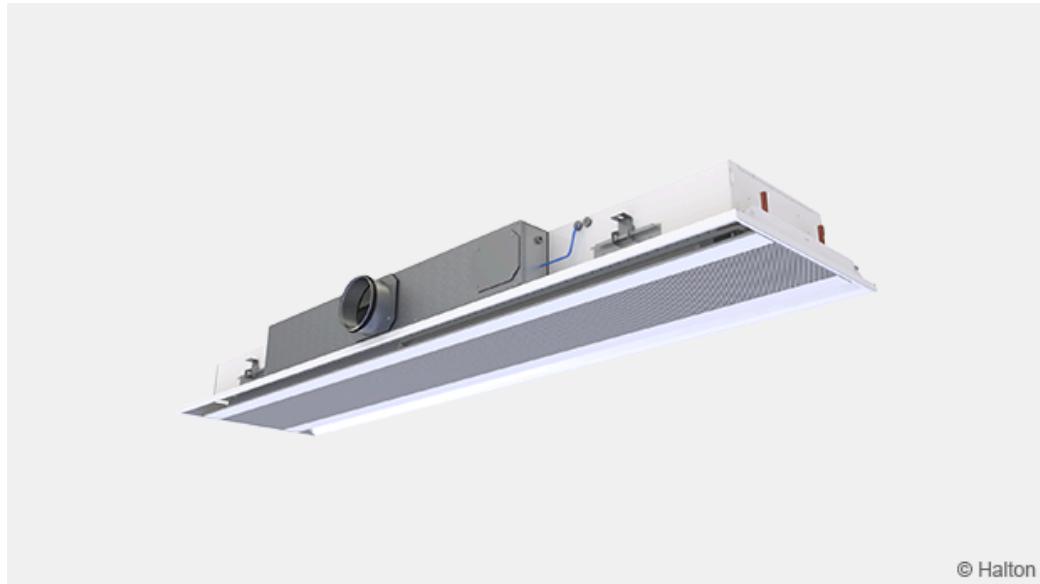
The purpose of this document is to give technical information and design examples for salespersons, technical support and designers.

1.3 Summary of changes

Release	Date	Description
1.2	24-Oct-2025	Minor corrections and translations (FI, SV and FR)
1.1	03-Oct-2025	2.4 Structure and materials, 2.7 Specification and 2.8 Order code - Removed RAL 9010 as standard colour option.
1.0	05-Sep-2025	First published version

2 Product description

2.1 Overview



The Halton Rex R6W chilled beam is a versatile product designed for demand-based ventilation systems. It serves as a combined cooling, heating, and supply air unit, ideal for flush installation within a suspended ceiling. Its compatibility with both pressure-dependent constant static pressure ductwork and pressure-independent ductwork makes it well-suited for demand-based ventilation. It is particularly effective in applications that prioritize high-quality indoor conditions, energy-efficient operation, and individual room control.

Halton Rex R6W chilled beam is designed for high-quality office requirements with high flexibility of airflow adjustability. The operation of this chilled beam will adapt to changes in the use of the space and office layout changes.

Application areas

- Office rooms
- Public spaces
- Landscape offices and meeting rooms

Key features

- Easy and fast selection with Halton eHIT design tool
- In-built flexibility for partition wall relocations with Halton Velocity Control (HVC).
- Adjustable supply airflow rate changes with Operation Mode Damper (OMD).
- Combined cooling, heating, and supply air unit for flush installation within a suspended ceiling.
- Well suited for spaces with high cooling loads, low humidity loads, and demand-based ventilation requirements.
- Enhanced life cycle performance with optimised air and water flow rates.
- Two product models with adjustable airflow using manual CAV or motorised VAV.
 - Flexible model with 0-100% airflow control and pressure-dependent operation.
 - Autonomic model with 0-100% airflow control and pressure-independent operation.

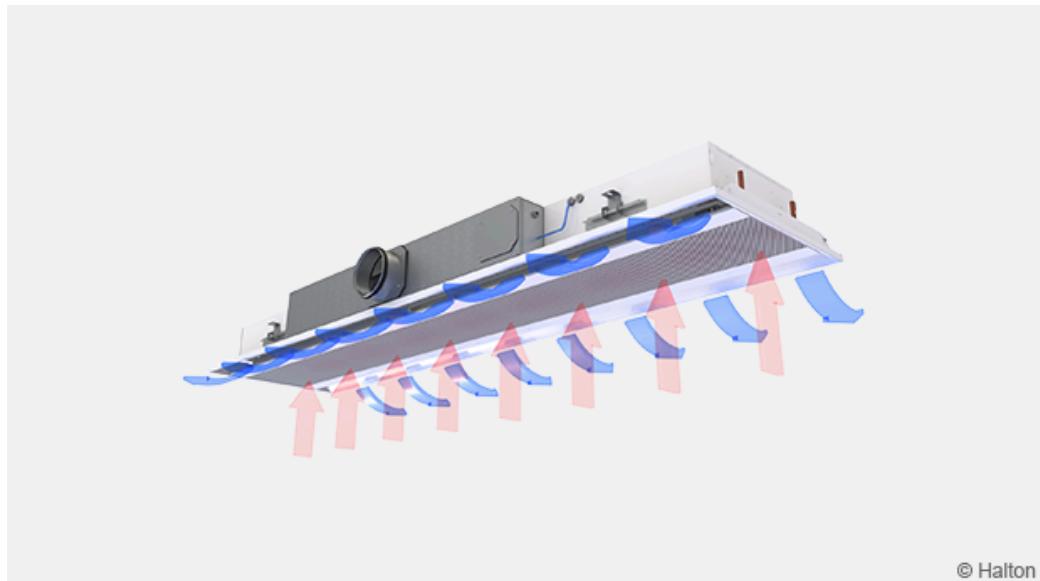
- Ideal solution for applications where high-quality indoor conditions, energy-efficient operation and individual room control are appreciated.
- A model with Halton Workplane WRA room automation system package available.

2.2 Operating principle

The Halton Rex R6W is an active variable air volume chilled beam flush with a suspended ceiling.

The primary supply air enters the plenum of the active chilled beam and is delivered into the room through precision-engineered nozzles controlled by the Operation Mode Damper (OMD).

As the high-velocity supply air exits the nozzles (blue arrows in the figure below), it generates jets that effectively induce ambient room air into the unit (red arrows in the figure below). The built-in heat exchanger then conditions this induced air, either cooling it or heating it as required. The resulting mixed airflow is discharged horizontally along the ceiling surface, which enhances air circulation and ensures uniform thermal comfort throughout the space.



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Fig. 1. Operating principle of the Halton Rex R6W chilled beam with cooling coil (TC=C)

2.2.1 Velocity control in the occupied zone

The Halton Velocity Control (HVC) system is designed to adjust air velocity within a room, either to accommodate changes in room layout, such as positioning the chilled beam near a partition wall or to locally modify velocity conditions in response to individual user comfort needs. The HVC adjustment impacts the induced room airflow through the heat exchanger. Therefore, it either increases or decreases both the velocities in the occupied zone and the cooling/heating capacity of the chilled beam.

The HVC involves manual velocity adjustment in three different positions 1 = Throttle, 2 = Normal, and 3 = Boost, as shown in Fig. 2. The HVC system is divided into sections to enable the adjustment of conditions in different parts of the occupied zone. Depending on the length of the beam, the optimal HVC damper module lengths are between 500 and 1400 mm. It enables the adjustment of conditions in different parts of the occupied zone.

The HVC damper is divided into sections (Pos. 1-3) to enable the adjustment of conditions in different parts of the occupied zone.

It is recommended to design the chilled beam in the normal position, to allow both throttle and boost functions

during the building's life cycle.

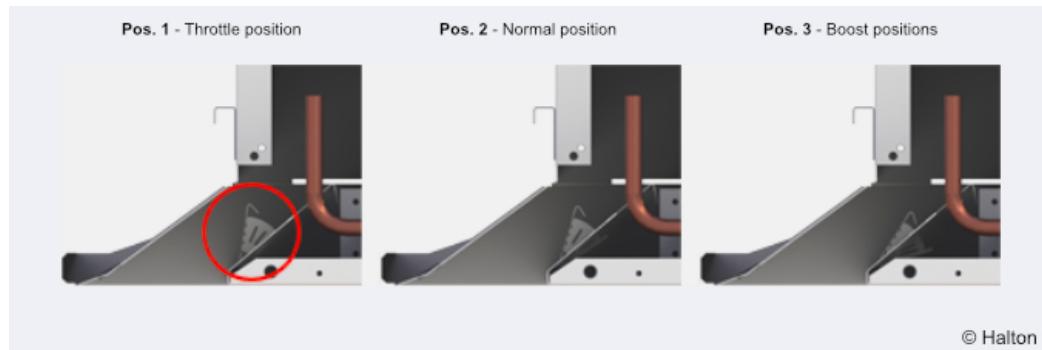


Fig. 2. Halton Velocity Control (HVC) positions

2.2.2 Supply airflow control

The supply airflow of the chilled beam nozzle jets is dependent on the nozzle type, nozzle row length and static chamber pressure.

The Operation Mode Damper (OMD), blue in Fig. 3, adjusts and controls the fresh airflow rate in a room, either manually or by electric actuator. The airflow rate is dependent on the opening position of the OMD damper. The occupancy sensor monitors the room's operation mode.

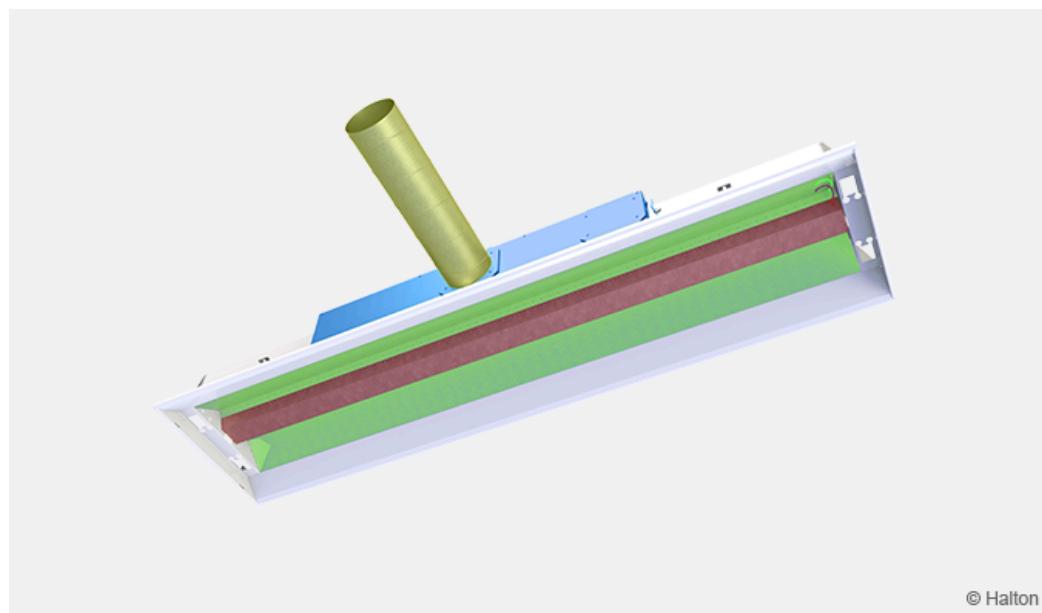
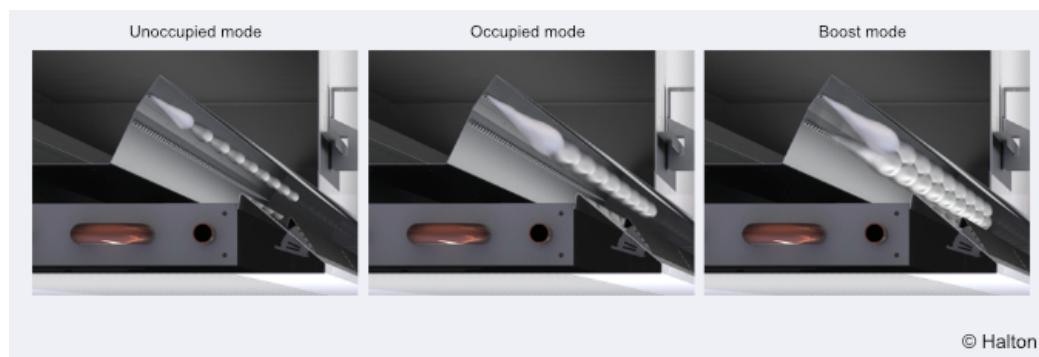


Fig. 3. OMD (blue), Chamber 1 (green) , Chamber 2 (red)

The figure below (Fig. 4.) presents the function in different modes controlled by the OMD.

1. **Unoccupied mode:** In this mode, supply air rate is set to a minimum value that can remove material emission.
2. **Occupied mode:** In this mode, set the supply air rate to normal office mode.
3. **Boost mode:** When more persons are in the space, based on the CO₂ sensor, airflow is increased to boost mode to maintain the set target value of indoor air quality.



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Fig. 4. Supply air modes of the Halton Rex R6W chilled beam

Chilled beams for demand-based airflows can be connected to any kind of duct work zones. Constant pressure ductwork zone gives advantages for easier design and operation.

2.2.2.1 Flexible model

Flexible model with 0-100% supply airflow control and pressure dependent operation

The Halton Operation Mode Damper (OMD) in the Halton Rex R6W Flexible model is used for manual supply airflow adjustment or motorised Variable Air Volume (VAV) control of the supply airflow rate.

The OMD control can also be used as a Constant Air Volume (CAV) damper. That is, it can adjust the k-factor to achieve the correct airflow with a certain pressure level. It removes the need for changing or plugging the nozzles of the Halton Rex R6W chilled beam supply air control.

When OMD control is equipped with a motorised actuator, fully flexible VAV control is achieved. It allows different pressure-dependent VAV modes, with minimum, normal, and boost airflow settings.

When control type is manual, motorised actuator is unavailable. However, the OMD adjustment is possible.

It is recommended that Halton Rex R6W Flexible model chilled beams for demand-based airflows be connected to a constant-pressure ductwork zone.

2.2.2.2 Autonomic model

Autonomic model with 0-100% supply airflow control and pressure independent operation

The Halton Operation Mode Damper (OMD) in the Halton Rex R6W Autonomic model is used for manual supply airflow adjustment or motorised Variable Air Volume (VAV) control of the supply airflow rate. In this Halton Rex R6W Autonomic model, when the OMD control is equipped with a motorised actuator integrated with pressure measurement, fully flexible VAV control with pressure-independent operation is achieved. It allows different pressure-independent VAV modes with minimum, normal, and boost airflow settings.

Halton Rex R6W Autonomic model chilled beams can be used in any type of ductwork zone. The design of a chilled beam should ensure both minimum and maximum ductwork pressure levels with variable pressure levels in the ductwork.

2.2.3 Temperature control

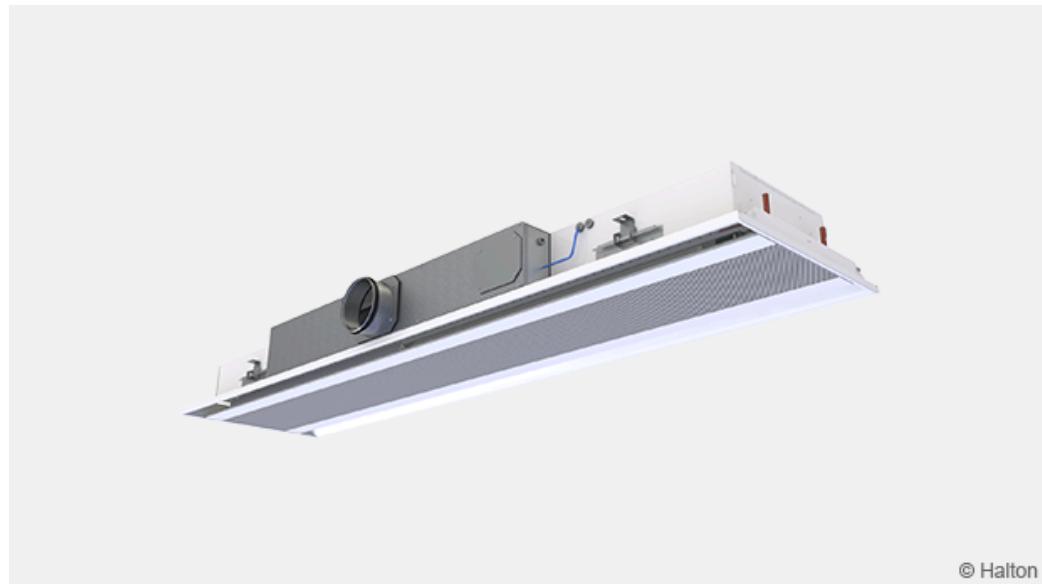
It regulates the water flow rate, controlling the cooling and heating capacities of the chilled beam in response to the control signal from the room temperature controller.

In heating mode, it is recommended that the temperature difference between the jet outlet and room air be no greater than 3 °C. The inlet water temperature of the heat exchanger should also be no higher than 35 °C. Optimal heating performance requires an appropriate primary airflow rate. Thus, the air handling unit shall

operate during heating periods to ensure proper heating performance.

2.3 Features and options

Accessory / mode	Code	Description	Note
Combined cooling and heating coil	TC = C	Coil with cooling water circulation	Cooling copper water pipe connections are Ø 12 mm with normal pressure drop (see " <u>Dimensions and weight</u> " section) and Ø 15 mm with low pressure drop.
	TC = H	Coil with both cooling and heating water circulation	Cooling and heating copper water pipe connections are Ø 12 mm with normal pressure drop. With low pressure drop, cooling water pipe connection is Ø 15 mm and heating Ø 12 mm. (see " <u>Dimensions and weight</u> " section)



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Fig. 5. Halton Rex R6W chilled beam with cooling coil (TC=C)

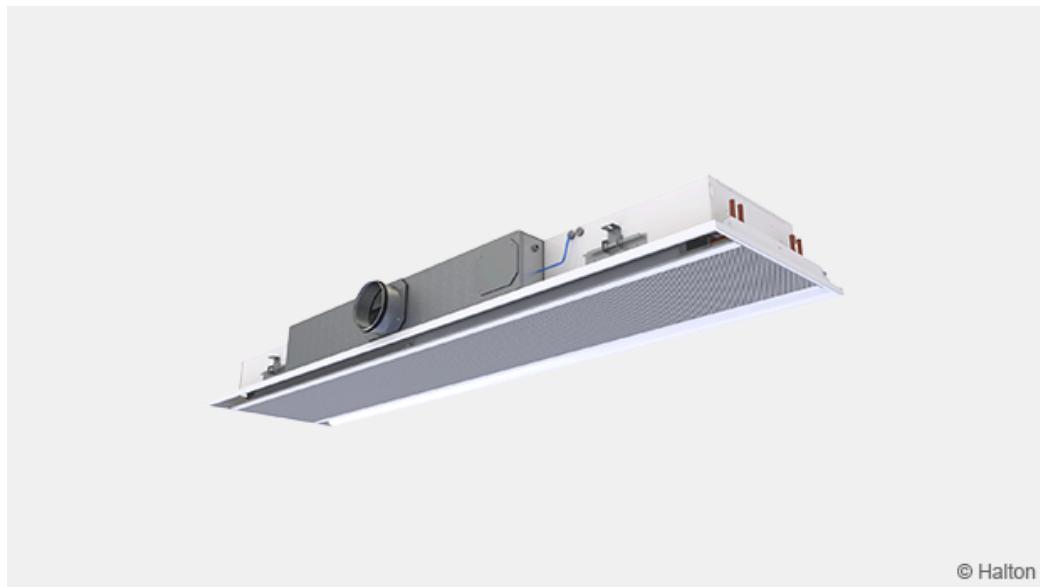


Fig. 6. Halton Rex R6W chilled beam with heading coil (TC=H)

2.4 Structure and materials

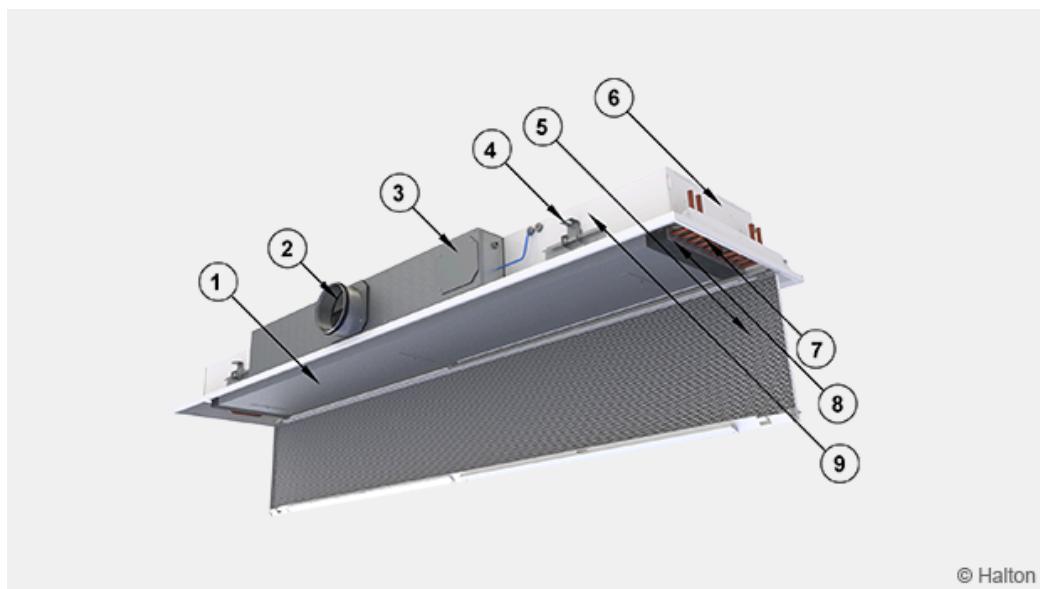


Fig. 7. Halton Rex R6W chilled beam structure with heating coil (TC=H)

No.	Part	Material	Description	Note
1	Heat exchanger	Galvanised steel	-	-
2	Supply air connection	Galvanised steel	-	-
3	Operation mode damper	Galvanised steel	-	-
4	Brackets	Aluminium	-	-
5	Front panel ^[1]	Pre-painted galvanised steel	Polyester-painted, white (RAL 9003, 20% gloss)	Special colours available, Polyester-epoxy-painted

No.	Part	Material	Description	Note
6	End plates	Galvanised steel	Polyester-painted, white (RAL 9003, 20% gloss)	Special colours available
7	Coil pipes	Copper	-	-
8	Coil fins	Aluminium	-	-
9	Side plates	Pre-painted galvanised steel	Polyester-painted, white (RAL 9003, 20% gloss)	Special colours available, Polyester-epoxy-painted

Cooling/heating water pipe connections are Cu12 with wall thickness of 0.9-1.0 mm fulfilling European Standard EN 1057:1996.

The maximum chilled/hot water circuit operating pressure is 1.0 MPa.

2.5 Dimensions and weight

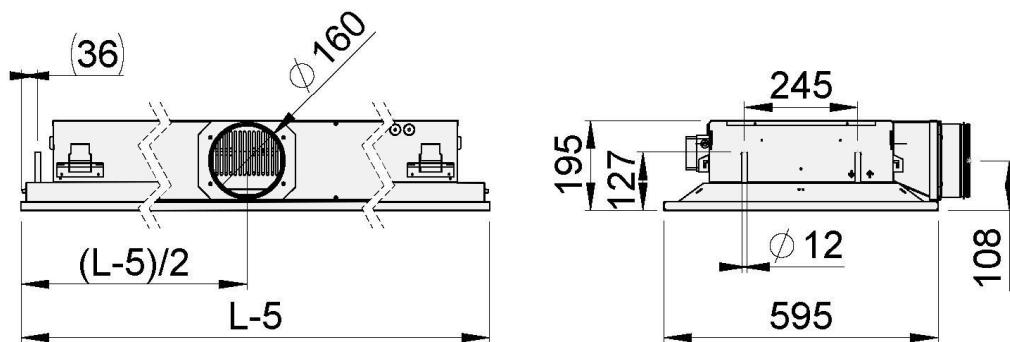


Fig. 8. Halton Rex R6W dimensions, cooling coil (TC = C)

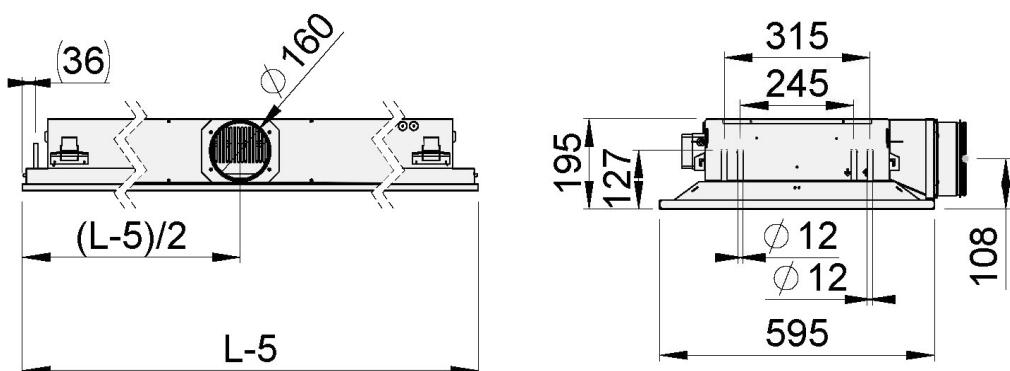


Fig. 9. Halton Rex R6W dimensions, heating coil (TC = H)

ØD	Coil length [mm]	Length L-5 [mm]	Weight [kg/m, water excluded]
160	1000, +600, ..., 3400	1195, +600, ..., 3595 (+1715)	15

1. Front plate perforations differ in the cooling and heating models.

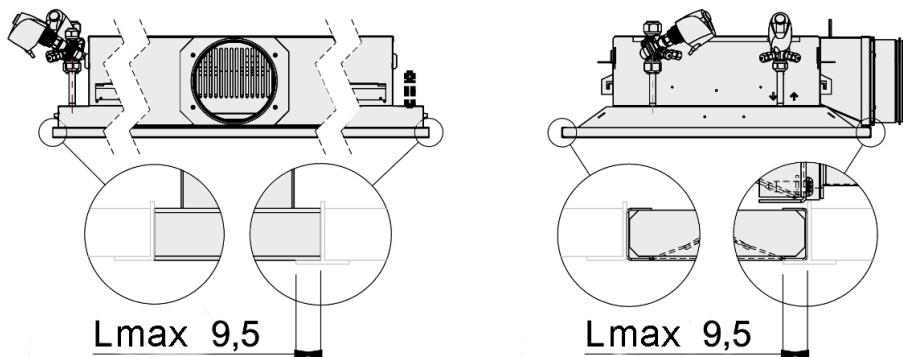


Fig. 10. Integration with suspended ceiling

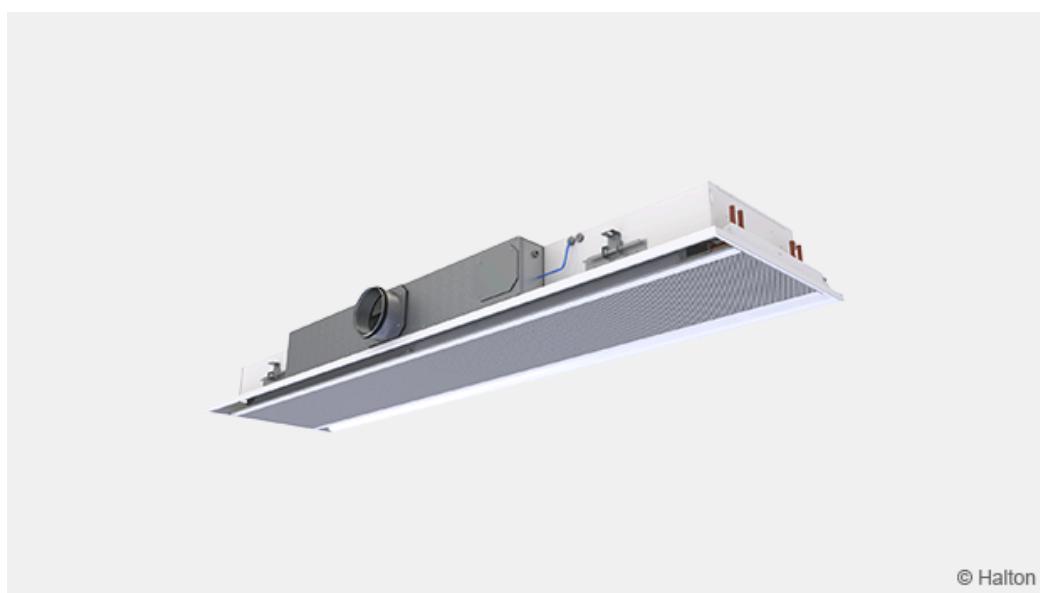
2.6 System package

If required, the system package includes a valve with actuator, controller, humidity sensor, CO₂ sensor, and temperature sensor.

2.6.1 Halton Workplace WRA automation

Halton Workplace WRA room automation system package for Halton Rex R6W.

Halton Workplace WRA is part of the Halton Workplace solution offering.



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Fig. 11. Halton Workplace WRA room automation controller integrated to Halton Rex R6W, chilled beam with heating coil (TC=H)

Halton Workplace WRA is a controller specially designed to control the automation system of office spaces and meeting rooms. It controls ventilation airflow, room temperature, and indoor air quality.

Halton Workplace WRA room automation package consists of a controller unit and optional components depending on customer needs: a wall panel and sensors for temperature, CO₂, occupancy, pressure, and condensation.

Depending on the number of controls and sensors required, the controller unit and wall panel are available in options. The Halton Workplace WRA room automation controller is always combined with other Halton products for an adaptable and high-level indoor climate.

2.6.2 Application area

- Controlling the ventilation airflow, room temperature, and indoor air quality in office spaces and meeting rooms
- The Halton Workplace WRA room automation controller is an essential part of the Halton Workplace system, controlling room units and airflow control dampers.
- Overall Halton Workplace system includes the following:
 - Room air conditioning applications with Halton Workplace WRA room automation controller:
 - Active chilled beams
 - Exhaust units
 - VAV dampers
 - Active VAV diffusers
 - Halton Max MDC zone control dampers
 - Halton Workplace WSO system optimiser

2.6.3 Key features

- Factory-tested controller and wiring, easy to install
- Pre-installed project-specific parameters, quick to commission
- Several operating modes based on occupancy, thermal comfort, and indoor air quality
- Enables fully flexible layout solutions for changing needs in office environments
- Highly energy-efficient and reliable system operation

2.6.4 Operating principle

The Halton Workplace WRA room automation controller operates with the Halton Workplace system's Variable Air Volume (VAV) dampers and active chilled beams. These dampers adjust ventilation airflow, room temperature, and indoor air quality in office spaces.

Each room unit in an office space can have its own dedicated Halton Workplace WRA room automation controller, or a single controller can control multiple room units. The Halton Workplace WRA room automation controller can automatically adjust the system according to users' preferred indoor environment level, bringing maximum flexibility.

Room automation: Halton Rex R6W active chilled beams controlled with Halton Workplace WRA room automation controllers

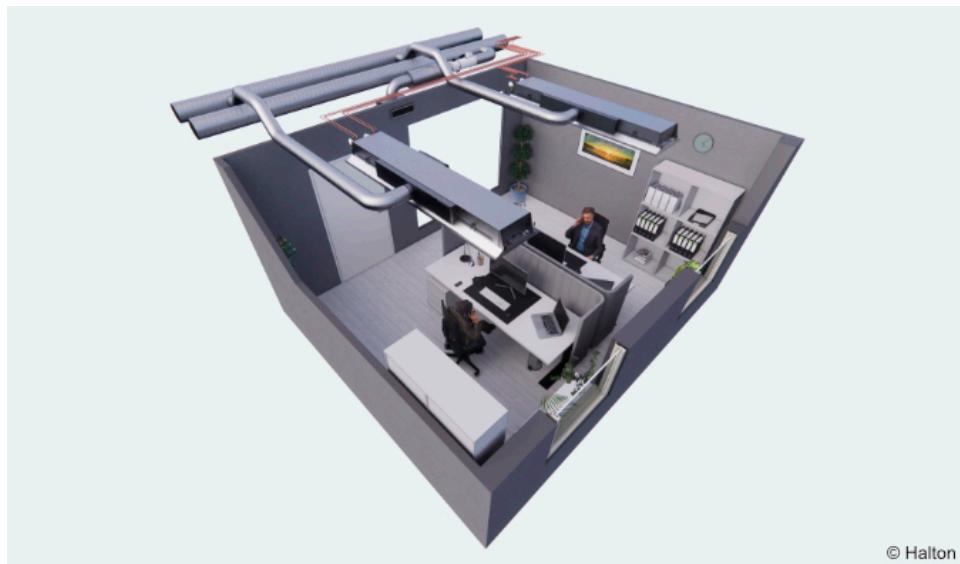


Fig. 12. Halton Rex R6W with Halton Workplace WRA room automation controllers in a double office room

2.6.5 Room automation

In this configuration, two Halton Workplace WRA room automation controllers (DXR2.E12P-102A) control two Halton Rex R6W active chilled beams. Each chilled beam has heating and cooling valves, a motorised Operation Mode Damper (OMD) control, and integrated CO₂ and condensation sensors. Halton Workplace WRA room automation controller has an integrated pressure sensor. The system also includes an exhaust VAV damper and a wall panel (QMX3.P37) with a temperature sensor and display. One Halton Workplace WRA room automation controller can individually control up to four terminal units, and there can be several Halton Workplace WRA room automation controllers in the room.

Design criteria for room automation

- Halton Rex R6W chilled beam has motorised OMD control
- Condensation and CO₂ sensor integrated into Halton Rex R6W chilled beam
- Exhaust airflow control
- Wall panel with temperature sensor and display
- Window switch control
- Pressure sensor integrated into Halton Workplace WRA room automation controller

Schematic diagram

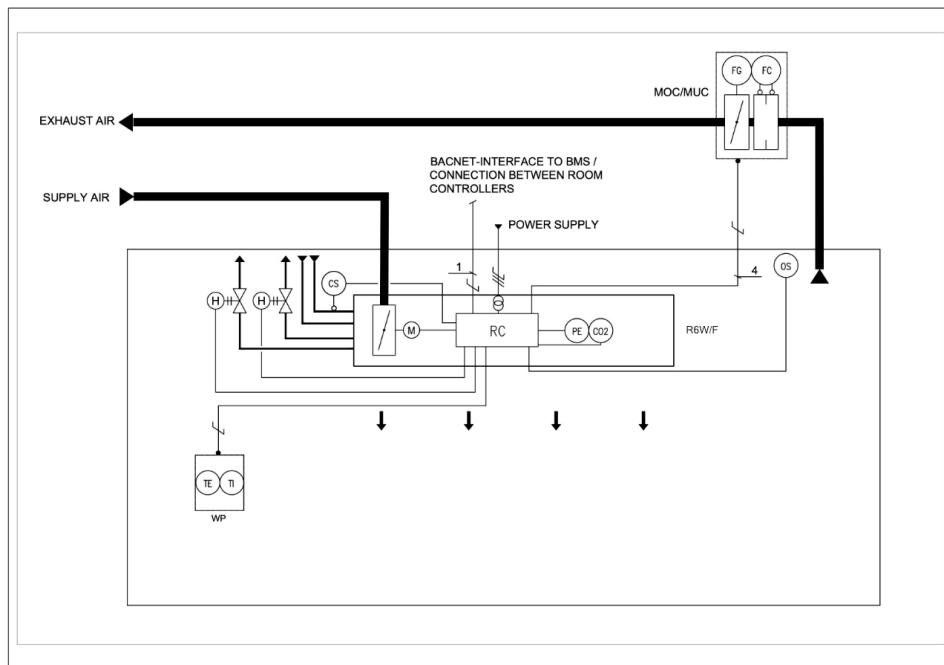


Fig. 13. Schematic drawing: Halton Rex R6W chilled beam with heating coil (4-pipe) controlled with Halton Workplace WRA room automation controller

Equipment list

Code	Equipment
RC	Controller unit
FG	Airflow damper actuator
FC	Airflow measurement
H	Water valve actuator
CS	Condensation sensor
OS	Occupancy sensor
PE	Pressure sensor
CO ₂	CO ₂ sensor
WP	Wall panel
TE	Temperature sensor
TI	Temperature display

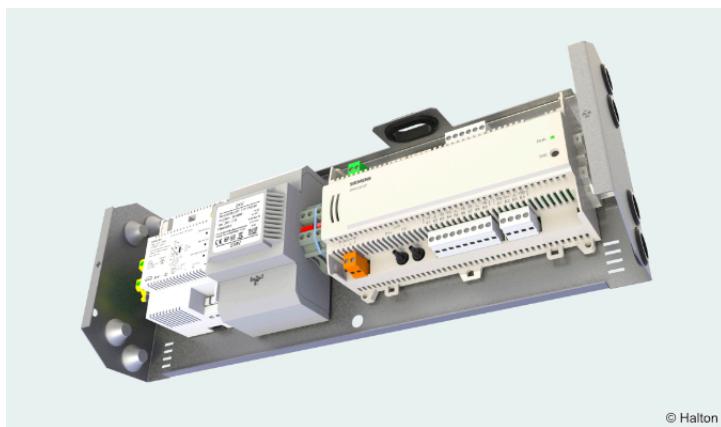


Fig. 14. Factory-installed Halton Workplace WRA room automation controller DXR2.E12P-102A

2.6.6 Wiring diagram

For the wiring diagram of this configuration, see the Halton Workplace WRA room automation controller's product page or the section Product selection examples.

Components and order code examples for the system

- 2 x Active chilled beam: Halton Rex R6W
 - R6W-F-2400-C-2100; SP=Y, ED=R3, TC=H, CR=N, CN=M1, CO=SW, ZT=N
- 1 x Exhaust unit: Halton AGC Exhaust grille + Halton PRL Plenum for grilles
 - AGC-N-400-100 FS=CL, ME=A, FI=PN, CO=W, ZT=N + PRL-F-400-100-160
- 1 x VAV damper: Halton Max MUC or Halton Max MOC
 - MUC-G-160, MA=CS
- Automation package: 2 x Halton Workplace WRA room automation controller unit with related components
 - WRA/R6W-E21-OM-EX4, WP=37, LC=NA, CD=CS, SW=NA, ST=IC, SL=OE, PM=P2, TC=H, CV=SP5, RV=NA, ZT=N

Note: For more information, check Halton Workplace WRA room automation controller's product page.

2.6.7 Cooling and heating water valve selection

Do the water valve selection in the Halton Workplace WRA room automation system package. The water valve sizing depends on the number of secondary and primary chilled beam units that a single controller controls. The whole chilled beam group cooling or heating uses one water valve to operate one room controller. The water valve is sized for the whole group when there are multiple chilled beams controlled with a single controller unit. There can be one primary chilled beam with a room controller and up to three secondary chilled beams.

See below the Water valve sizing for 1-4 chilled beams.

Number of chilled beams (pcs.)	Water valve type	Size for cooling (DN)	Size for heating (DN)	Installation
1	ABQM	DN15	DN15	Integrated to chilled beam
2	ABQM	DN20	DN15	Loose

Number of chilled beams (pcs.)	Water valve type	Size for cooling (DN)	Size for heating (DN)	Installation
3	ABQM	DN20	DN15	Loose
4	ABQM	DN25	DN15	Loose

Number of chilled beams (pcs.)	Water valve type	Size for cooling (DN)	Size for heating (DN)	Installation
1	VPP46..	DN15	DN15	Loose
2	VPP46..	DN20	DN15	Loose
3	VPP46..	DN20	DN15	Loose
4	VPP46..	DN25	DN15	Loose

2.7 Specification

The active chilled beam has an integral recirculation air path through the perforated front panel. The induced room airflow rate is manually adjustable via three setting positions without influencing the primary air supply flow rate. The airflow rate of the chilled beam is adjustable without plugging or changing the nozzles.

Operating principle

- The chilled beam unit is equipped with a motorised Operation Mode Damper (OMD).
 - The beam with adjustable airflow rate has only one duct connection.
 - Two product models with adjustable airflow using manual CAV or motorised VAV OMD actuators
 - Flexible product model equipped with motorised (0...10 VDC) VAV actuators for 0-100% airflow control and pressure dependent operation
 - Autonomic product model equipped with motorised (0...10 VDC or Modbus RTU/BACnet MSTP) VAV actuators for 0-100% airflow control and pressure independent operation
- The primary airflow rate is adjustable in meeting rooms from minimum to maximum (0-100%) when static chamber pressure is kept constant.
- The air supply to the room space is bi-directional.

Structure

- The front panel is openable from either side in order to allow general maintenance and cleaning.
- The front panel is removable without any special tools.
- The active chilled beam is 595 mm wide and 230 mm high.
- The active chilled beam has an inlet duct diameter of 160 mm.
- All pipes are manufactured from copper and connection pipes with a wall thickness of 0.9-1.0 mm.

Material

- The frame, front, and side panels are made of galvanised steel plates.
- All visible parts are white and painted to RAL 9003/20% gloss
- All joints are soldered and factory pressure-tested.
- The pipework's maximum operation pressure is 1.0 MPa.

- The active chilled beam has measurement taps to allow airflow measurements to all the operation modes.

Packaging and transport

- Active chilled beams are protected by a removable plastic coating.
- The duct connection and pipe ends remain sealed during transport.
- The active chilled beams can be identified by labels attached to both the active chilled beam and the plastic packaging.

2.8 Order code

R6W-M-S-L-P; SP-ED-TC-CR-CN-CO-ZT

Main options	
M = Model	
F	Flexible
A	Autonomic
S = Nozzle size, 1 st row	
B	Small
C	Medium
L = Beam length [mm]	1200, +100,...,3600 (and 1720)
P = Nozzle size, 2 nd row	
B	Small
C	Medium

Other options and accessories	
SP = System package	
N	No
Y	Yes
ED = Duct connection	
R3	Right (Ø160)
L3	Left (Ø160)
TC = Cooling/Heating coil type	
C	Cooling
H	Cooling and heating
CR = Coil water pressure drop	

Other options and accessories	
N	Normal
L	Low
CN = Control type	
MA	Manual
M1	Motorised (0...10 VDC)
M2	Motorised (Modbus RTU/BACnet MSTP)
CO = Colour	
SW	Signal white (RAL 9003)
X	Special colour (RAL xxxx)
ZT = Tailored product	
N	No
Y	Yes (ETO)

Sub products	
System package	Halton Workplace WRA
Room exhaust VAV damper	Halton Max MOC
Room exhaust VAV damper	Halton Max MUC

Order code example	
R6W-F-B-1800-B; SP=N, ED=R3, TC=C, CR=L, CN=M1, CO=SW, ZT=N	

3 Design information

3.1 Installation

The Halton Rex R6W active chilled beam is suitable for suspended ceiling mounting. The location of the supply air and water circuit connections is taken into account when selecting the orientation of the chilled beam.

The chilled beam can be attached directly to the ceiling surface (H1 = 195 mm) or suspended using threaded drop rods (8 mm). Depending on the length of the unit, the fixing points are located as shown in the drawings.

Install the main pipelines of the cooling and heating water circuits above the level of the chilled beam in order to enable venting of the pipework.

Installation with bracket

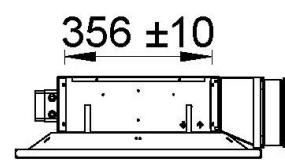
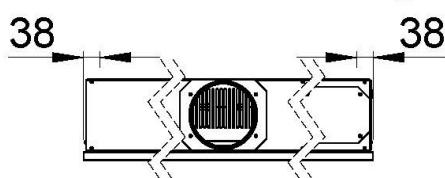


Fig. 15. Bracketing, total length from 1200 or 1700 mm

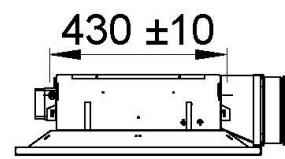
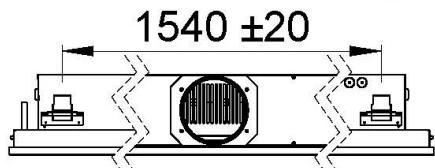


Fig. 16. Bracketing, total length from 1800 or 2300 mm

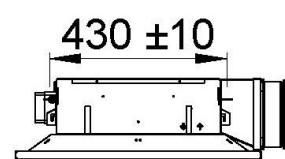
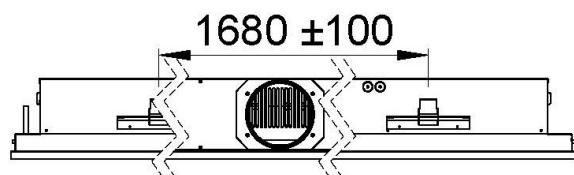


Fig. 17. Bracketing, total length from 2400 or 2900 mm

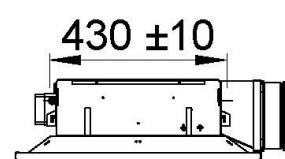
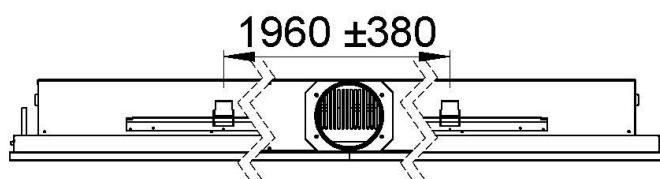


Fig. 18. Bracketing, total length from 3000 or 3600 mm

3.2 Commissioning

Cooling

The recommended cooling water mass flow rate is 0.02-0.10 kg/s, resulting in a temperature rise of 1-4 °C in the heat exchanger. To avoid condensation, the recommended inlet water temperature of the heat exchanger is 14-16 °C.

Heating

The recommended heating water mass flow rate is 0.01-0.04 kg/s, resulting in a temperature drop of 5-15 °C in the heat exchanger. The maximum temperature of the inlet water for the heat exchanger is 35 °C.

Balancing and control of water flow rates

The water mass flow rate, which can be controlled using an ON/OFF valve or a two—or three-way proportional valve, controls the chilled beam's cooling and heating capacities.

Adjustment of supply airflow rate

Connect a manometer to the measurement tap and measure the static pressure in the Halton Rex R6W chilled beam. Fig. 19 presents the measurement tap locations for OMD (Operation Mode Damper) and chambers 1 and 2.

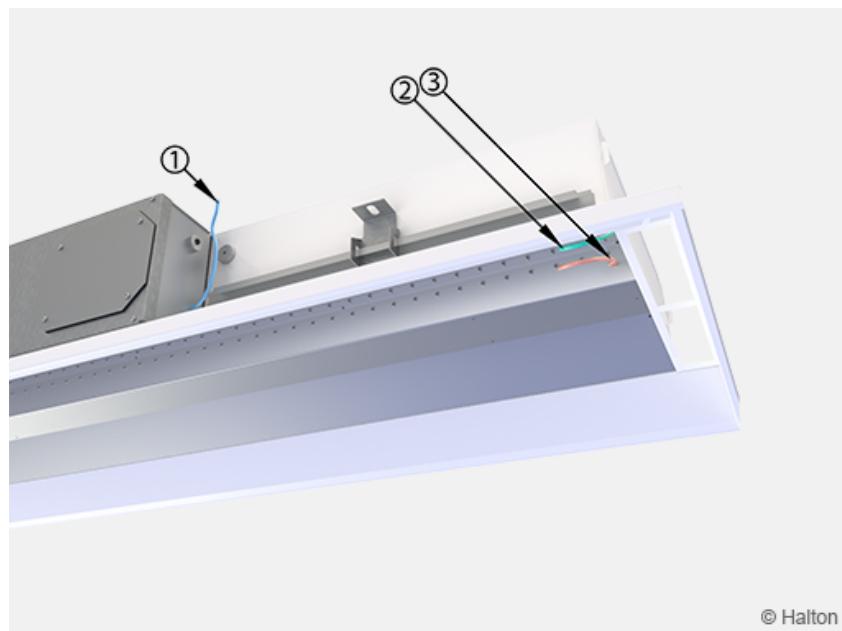


Fig. 19. Location of measurement tabs

Key:

No.	Location	Colour
1	OMD	Blue
2	Chamber 1	Green
3	Chamber 2	Red

Total airflow rate (q_v)

$$q_v = q_{v1} + q_{v2}$$

q_v	Total airflow rate, l/s or m^3/h
q_{v1}	Chamber 1 nozzle jet airflow rate, l/s or m^3/h
q_{v2}	Chamber 2 nozzle jet airflow rate, l/s or m^3/h

$$q_{v1,2} = k * l_{eff} * \sqrt{\Delta p_m}$$

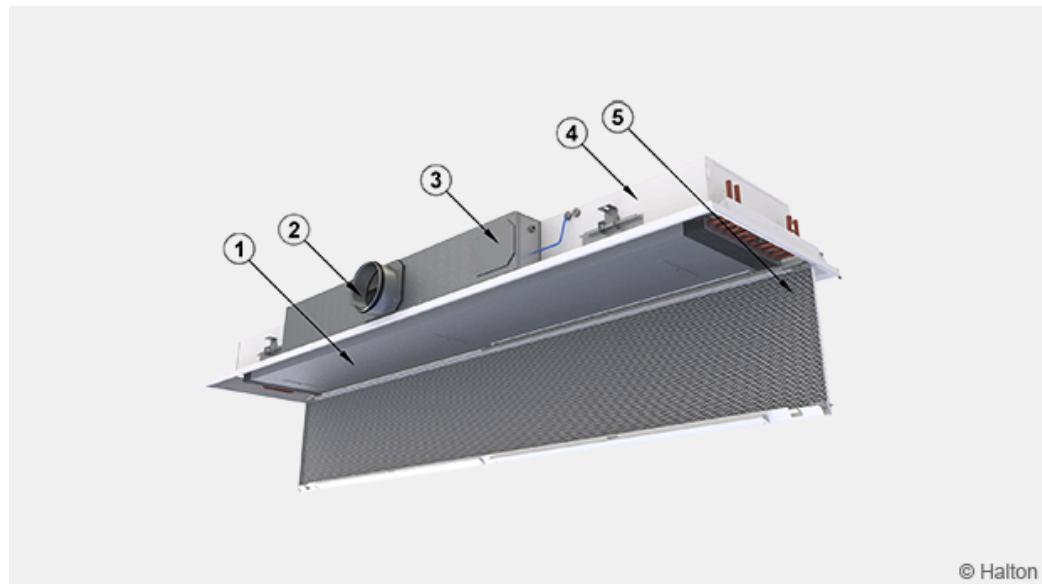
l_{eff}	Length of the coil (beam length - 200 mm)
Δp_m	Chamber 1 measured pressure for q_{v1} or Chamber 2 measured pressure for q_{v2}

	k [l/s]	k [m^3/h]
B	1,06	3,82

	k [l/s]	k [m^3/h]
C	1,35	4,86

The same k-factors will be used for all the operation modes.

3.3 Maintenance



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Fig. 20. Halton Rex R6W chilled beam (TC=H) with Key components

No.	Part	Description
1	Heat exchanger	-
2	Supply air connection	-
3	Operation mode damper (OMD)	Service hatch to access manual or motorized
4	Side plate	-
5	Front panel	-

Open the front panel of the supply air chamber, the ductwork, and the heat exchanger. In beams longer than 2400 mm, it can be opened in two sections.

Clean the supply air chamber and finned coils of the heat exchanger with a vacuum cleaner, taking care not to damage the finned coils.

Clean the front panel and, if required, the side plates using a damp cloth.

4 Technical reference data

4.1 Connection diagrams

Halton Rex R6W, Flexible model

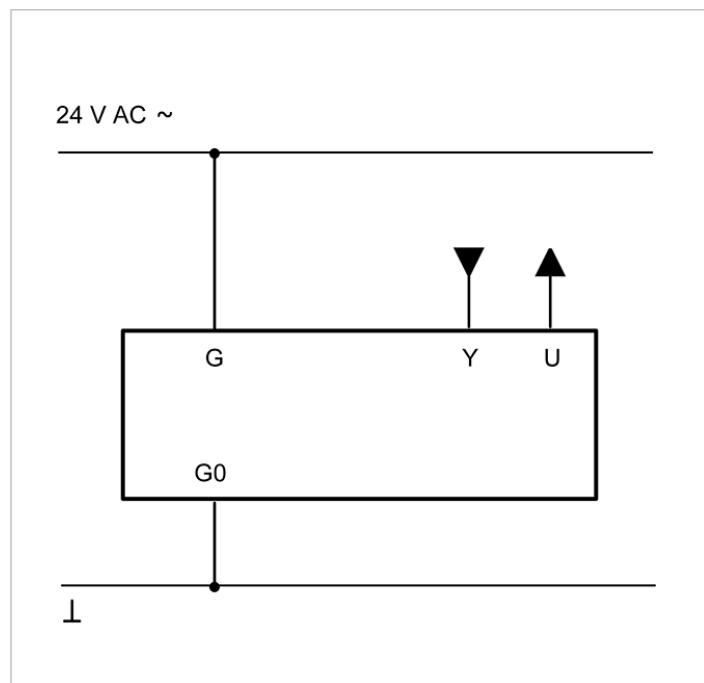


Fig. 21. Connection diagram for Halton Rex R6W, Flexible model OMD control

Connection	No.	Colour	Comment
G	1	Red	24 V AC
G0	2	Black	Ground
Y	8	Grey	0...10 V DC. Control signal in for OMD position. The voltage corresponds to the OMD openings and k-factors.
U	9	Pink	0...10 V DC. Feedback signal out indicating the OMD position.

Halton Rex R6W, Autonomic model

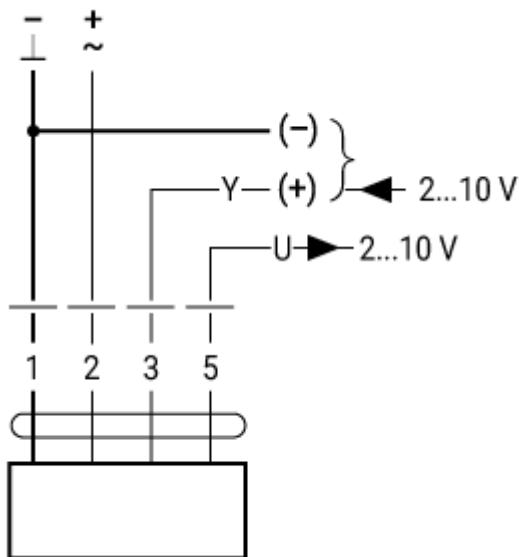


Fig. 22. Connection diagram analog for Halton Rex R6W, Autonomic model

No.	Designation	Cable colour	Function
1	\perp -	Black	AC/DC 24 V supply
2	$\sim +$	Red	
3	$\blacktriangleleft Y$	White	Reference signal/Override/Sensor
5	$\blacktriangleright U$	Orange	<ul style="list-style-type: none"> - Actual value signal - MP-Bus connection