

Project: The Ladies College
 Unit name: 2 - No attenuation! - Design data

Date: 11/08/2021
 22 / 1.0.20210630.1120626
 Unit ID: AD-10000969564

GOLD F RX/HC
 Manufactured by Swegon, Kvänum, Sweden



Dimensioning data		2 - No attenuation!	
Unit size			050
Air density			1.200 kg/m ³
Supply air flow			3.800 m ³ /s
Static pressure drop	Outdoor air duct		0 Pa
	Supply air duct		300 Pa
Extract air flow			3.800 m ³ /s
Static pressure drop	Extract air duct		300 Pa
	Exhaust air duct		0 Pa
Climate data		London Weather C.,	Great Britain
Design outdoor temperature, summer			28.0 °C
Design outdoor humidity, summer			48 %
Design outdoor temperature, winter			-5.0 °C
Design outdoor humidity, winter			100 %
Supply air temperature, summer			18.8 °C
Supply air temperature, winter			20.8 °C

Key Performance Data		
Specific fan power SFPv	Purging flow including leakage, clean filters	1.84 kW/(m ³ /s)
Dry-bulb temperature efficiency of supply air		83.8 %
Eurovent Energy Efficiency Class		A+ 2016
ErP Commission Regulation (EU) No 1253/2014		Compliant 2018

Casing	
Construction	Frameless, double skinned panels with mineral wool insulation
Panels	56mm thick with 1mm thick steel sheet inside and out. Outer sheet with grey painted finish
Thermal insulation class	T2
Thermal bridging class	TB2
Casing leakage class	L1(M) / L2(R) according to EN 1886:2007 at -400 Pa and +700 Pa
Casing strength	D1(M)
Hygiene	Compliant with the requirements of VDI 6022

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Electrical connections	
GOLD F RX	3-phase, 5-wire, 400 V-10/+15%, 50 Hz, 25 A
HC	3-phase, 5-wire, 400 V±10%, 50 Hz, 63 A

Functional sections viewed in the direction of air flow	Velocity m/s	Air Temperature in/out Winter °C	Air Temperature in/out Summer °C	Power kW	Design Pressure drop Pa	Noise Level dB(A)
Outdoor air duct					-0	78
Air intake section, Gold 50-120(TBTA-3)					-	
End section					-6	
Damper					-1	
Filter	1.54				-107	
Rotary heat exchanger	2.37	-5.0/17.6	28.0/25.5		-159	
Extra pressure drop					-0	
Coil RX/HC	1.72	17.6/20.0	25.5/18.0		-23	
Fan				3.73	618	
End section					-7	
Supply air duct					-300	85
Extract air duct					-300	79
End section					-5	
Filter	1.44				-53	
Rotary heat exchanger	2.37	22.0/-0.6	25.0/27.5		-171	
Extra pressure drop					-0	
Coil RX/HC	1.79	-0.6/-2.3	27.5/37.3		-39	
Fan				3.78	583	
Damper					-1	
End section					-7	
Exhaust air cowl for outdoor installation					-6	
Exhaust air duct					-0	86

Sound power to duct, measured according to ISO 5136
 Noise reduction for function section included to duct.
 Sound power emitted to surroundings, measured according to ISO 3741

Frequency band	63	125	250	500	1k	2k	4k	8k	All	
To supply air duct	83	78	80	82	79	78	76	76	dB	85 dB(A)
To outdoor air duct	82	80	83	75	69	66	62	63	dB	78 dB(A)
To extract air duct	83	81	84	75	69	67	66	68	dB	79 dB(A)
To exhaust air duct	84	79	81	83	80	79	77	77	dB	86 dB(A)
To surroundings	76	68	62	66	51	50	49	49	dB	64 dB(A)