



Flexomix

Dimension drawing

Project

Dobeles_valsts_gimnazija

AHU

AHU1

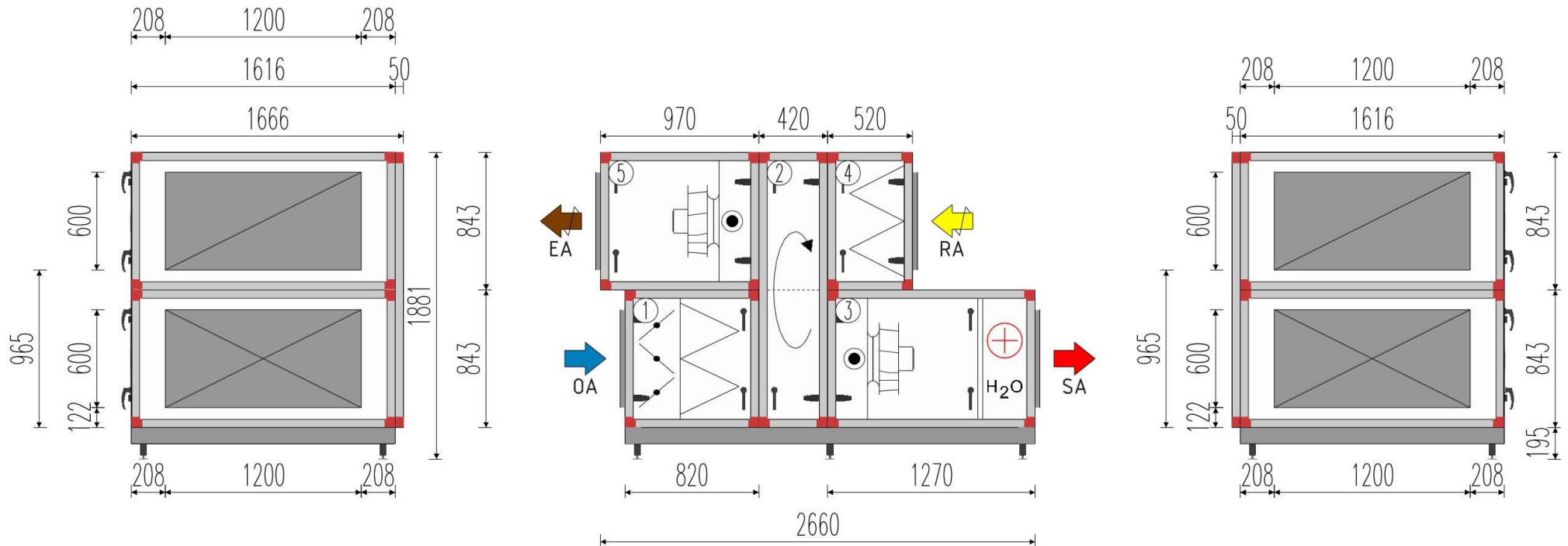
Size

300 8070/8070 m³/h



Total for AHU

Width	1616/1666 mm	1) 122 kg	5) 196 kg
Height	1881 mm	2) 210 kg	
Length	2660 mm	3) 249 kg	
Weight	901 kg	4) 84 kg	



Note! Consider the required space needed to open inspection doors and for plumbing. Additional space for pipes water coil 100 mm. Access door with largest radius 920 mm is in module 3;5 Additional space for handle inspectiondoor 60 mm. Additional space for connection frame 40 mm.



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Technical data

1 (3)



Project	Dobeles_valsts_gimnazija
AHU	AHU1
Size	300 8,070/8,070 m³/h

The system's Specific Fan Power (SFP) calculation is based on clean filters. When using rotor heat recovery, the rotor cleaning air flow, and any pressure reducing damper is included.

Specific fan power

Output	Total for AHU	1.90	kW/m³/s
	Ecodesign 2016-Approved 2018-Approved		

Dimension and weight

Width	1,616/1,666	mm
Height	1,881	mm
Length	2,660	mm
Weight	901	kg

CASING MODEL, EN1886

AA-50

BASIC DATA

		<i>Supply air</i>	<i>Extract air</i>	
Input	Flow	8,070	8,070	m³/h
	Cleaning air flow incl leakage		565	m³/h
	External pressure drop	300	300	Pa
	Distribution of external pressure drop			
	Outdoor air/Supply air Extract air/Exhaust air	(50/250)	(250/50)	Pa
Output	Cross sectional velocity	2.0	2.0	m/s
	Damper	6		Pa
	Filter type Pre filter G4	79		Pa
	Initial pressure drop	(39)		Pa
	Final press. drop	(119)		Pa
	Rotary heat exch.	120	120	Pa
	Air heater, liquid	25		Pa
	Set of filters Pre filter G4		79	Pa
	Initial pressure drop		(39)	Pa
	Final press. drop		(119)	Pa
	Built-in losses	17	20	Pa
Total internal pressure	247	219	Pa	



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Project	Dobeles_valsts_gimnazija
AHU	AHU1
Size	300 8,070/8,070 m³/h

Fans		<i>Supply air</i>	<i>Extract air</i>	
Output	Total static pressure	547	519	Pa
	Fan rpm	2,131	2,210	r/m
	Fan efficiency static	65.0	61.0	%
	(Fan efficiency tot)	74.0	71.0	%
	Input power fan	1.89	2.04	kW
	Motor efficiency incl. speed control	85.1	85.3	%
	Total efficiency	55.3	52.0	%
	Fan power at dim press	2.22	2.40	kW
	Fan power clean filter	2.06	2.21	kW
	Motor output Power	3.00	3.00	kW
	Motor current	10.4/6.0	10.4/6.0	A
	Motor voltage	230/400	230/400	V
	Max. rpm	2,380	2,380	r/m
	Capacity reserve	28	20	%
	Max. frequency	82	82	Hz
	Temperature increase	0.83	0.89	°C
	Fan type	045G-I3S1-0300	045G-I3S1-0300	
	K-factor for air flow measuring	18.00	18.00	

Sound data (sound power)

<i>Frequency band</i>	63	125	250	500	1k	2k	4k	8k		<i>Tota</i>	
Supply air:										81	dB
To surroundings	68	68	59	47	47	50	47	35	dB	57	dB(A)
Outdoor air	70	76	78	70	66	66	62	54	dB	74	dB(A)
Supply air	73	79	79	75	77	79	75	68	dB	84	dB(A)
Extract air:										83	dB
To surroundings	68	66	58	47	46	53	51	39	dB	58	dB(A)
Extract air	69	75	76	70	67	69	65	59	dB	75	dB(A)
Exhaust air	73	77	79	76	78	84	82	75	dB	88	dB(A)
Total:											
To surroundings	71	70	62	50	50	55	52	40	dB	61	dB(A)

ROTARY HEAT EXCH.

	Rotor variant	NO	
	Rotor diameter	D1	
Input	Air temperature in	-22.3	°C
	RH Outdoor Air	80	%
	Return air temp	22.0	°C
	RH Return Air	15	%
Output	Supply air temp. after exch.	12.0	°C
	Temperature efficiency dry (EN308)	77.5	%
	Temperature efficiency dry at balanced flows 77.5%		
	Exhaust air temperature	-12.3	°C
	Recommended external fuse	1-fas 230V 10 AT	



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Size	300 8,070/8,070 m³/h

AIR HEATER, LIQUID

Input	Air temperature in	12.0	°C	
	Requested air temp out	20.0	°C	
Output	Liquid temp in	70.0	°C	
	Liquid temp out requested	50.0	°C	
	Air temperature out	20.0	°C	
	Air speed	2.4	m/s	
	Liquid flow	0.14	l/s	
	Pressure drop liquid	0.8	kPa	
	Power variant	01		
	Heating power	21.7	kW	
	Fin pitch	2.0	mm	
	Tube connection	25		
	Internal volume	5	l	
	Primary side with 2-way valve			
		Liquid temp in	70.0	°C
		Liquid temp out	33.1	°C
	Liquid flow	0.14	l/s	
Primary side with 3-way valve				
	Liquid temp in	70.0	°C	
	Liquid temp out	50.0	°C	
	Liquid flow	0.26	l/s	