



Envistar Top

Material specification detailed

Project Stradini 10 korpuss
AHU AHU1
Size 06 1310/1160 m³/h



Handing side R=Right, L=Left

Product	Product code	Quant
Envistar Top Delivery configuration V	ATER-06-00-NO-0-00	1
Rotary heat exch. Rotor: Normal		
Filter supply air Class F7, Bagfilter Dim: 1x790x287 L=370-11P	ATEF-06-F7	1
U-tube manometer	MIET-FB-01	1
Fan supply air Fan with 1-phase 230VAC 0,72kW EC motor		
Air heater electric	ATEE-06-1	1
Fan extract air Fan with 1-phase 230VAC 0,72kW EC motor		
Filter extract air Class M5, Bag filter Dim: 1x790x287 L=370-8P	ATEF-06-F5	1
U-tube manometer	MIET-FB-01	1
Damper Excluding motor and lever actuator	ETET-UM-06	1
Damper Excluding motor and lever actuator	ETET-UM-06	1
Control system Climatix	CST-V111-R-CX	1
EI. connection	ATEK-06-0	1
ECO Optimized energy control	STA-00	1
Fixed fan speed, 1- to 3-speeds	STB-01	1
Outdoor air damper actuator ON/OFF spring return	STC-01-1	1
Extract air damper actuator ON/OFF, spring return	STC-03-1	1
Electrical heating with integrated controls	STD-08-V216	1
Modbus TCP/IP standard		1
Web server in text format by TCP/IP standard		1



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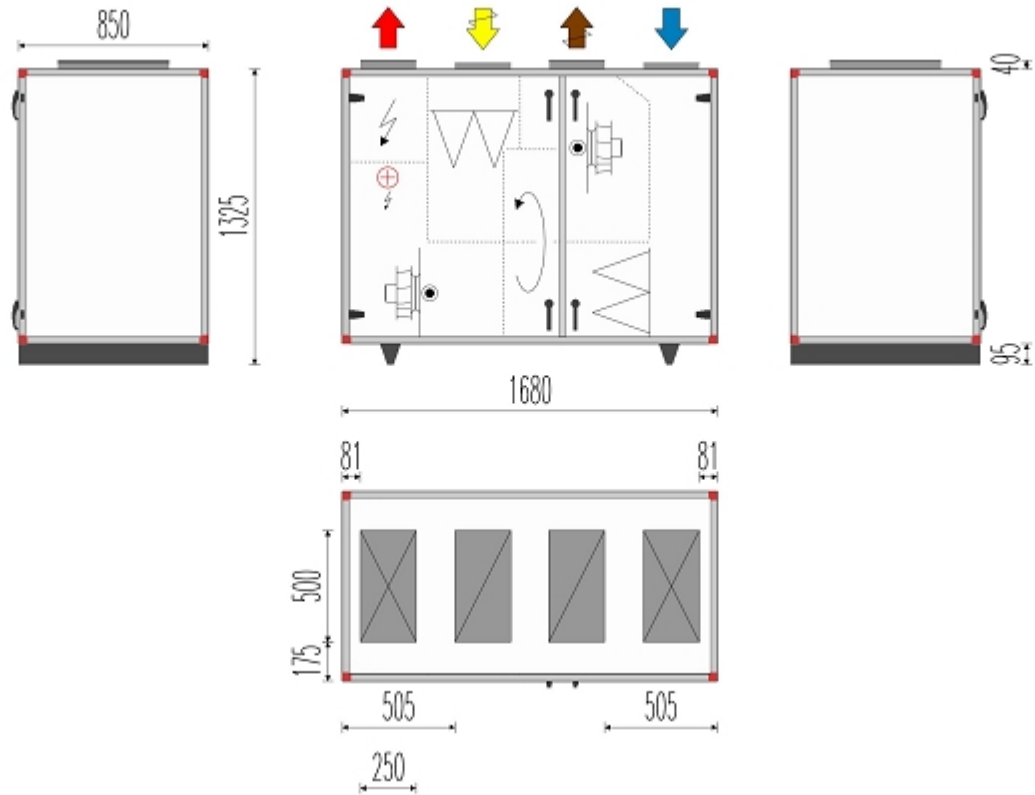
Dimension drawing

Project	Stradini 10 korpuss
AHU	AHU1
Size	06 1310/1160 m ³ /h



Total for AHU

Width	850 mm
Height	1325 mm
Length	1680 mm
Weight	270 kg



Note! Consider the required space needed to open inspection doors and for plumbing.
Access door with largest radius 990 mm



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Dimension drawing

Project

Stradini 10 korpuss

AHU

AHU1

Size

06 1310/1160 m³/h

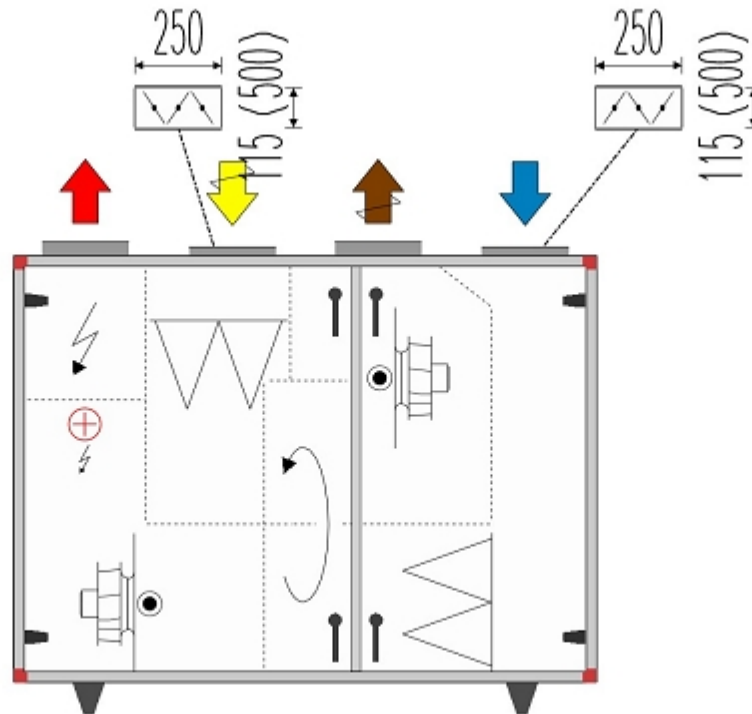


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Duct accessories

Damper 5 kg





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Technical data



Project	Stradini 10 korpuss
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Size	06 1,310/1,160 m³/h

The system's Specific Fan Power (SFP) calculation is based on clean filters, the rotor purging air flow, and any pressure reducing damper.

Specific fan power

Output	Total for AHU	1.62	kW/m³/s
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Dimension and weight

Width	850	mm
Height	1,325	mm
Length	1,680	mm
Weight	270	kg

BASIC DATA

		Supply air	Extract air
Input	Flow	1,310	1,160 m³/h
	Cleaning air flow incl leakage		159 m³/h
Output	Cross sectional velocity	1.0	0.9 m/s
	Damper	4	4 Pa
	Filter Fine filter F7 / Fine filter F5	96	70 Pa
	Initial pressure drop	(56)	(30) Pa
	Final press. drop	(136)	(110) Pa
	Rotary heat exch.	79	70 Pa
	Air heater electric	11	Pa
	Built-in losses	18	18 Pa
	Pressure reducing damper for optimal air		40 Pa
	Total internal pressure	208	202 Pa
	External pressure drop	280	180 Pa

Fans

		Supply air	Extract air
Output	Total pressure	488	382 Pa
	Fan rpm	2,209	1,995 r/m
	Total efficiency	50.8	49.5 %
	Fan power at dim press	0.35	0.28 kW
	Fan power clean filter	0.33	0.26 kW
	Motor output Power	0.72	0.72 kW
	Motor current at 230V, 1-fase	3.1	3.1 A
	Max. rpm	2,750	2,750 r/m
	Capacity reserve	48	62 %
	Fan type	EC280R63D	EC280R63D
	K-factor for air flow measuring	38.71	38.71



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Technical data

Project

Stradini 10 korpuss

AHU

AHU1

Size

06 1,310/1,160 m³/h



Sound data (sound power)

Frequency band	63	125	250	500	1k	2k	4k	8k	Tota
Supply air:									79 dB
To surroundings	65	58	63	47	51	40	30	22	dB 57 dB(A)
Outdoor air	66	58	76	64	53	53	45	34	dB 69 dB(A)
Supply air	72	68	84	75	72	72	64	60	dB 80 dB(A)
Extract air:									77 dB
To surroundings	61	55	58	44	48	39	29	21	dB 53 dB(A)
Extract air	63	54	69	61	50	51	43	33	dB 63 dB(A)
Exhaust air	68	65	79	72	69	71	64	60	dB 77 dB(A)
Total:									
To surroundings	66	60	64	49	53	43	33	25	dB 58 dB(A)

ROTARY HEAT EXCH.

	Rotor variant	NO	
Input	Air temperature in	-21.0	°C
	RH Outdoor Air	90	%
	Return air temp	22.0	°C
	RH Return Air	30	%
Output	Supply air temp. after exch.	11.8	°C
	Temperature efficiency dry	76.3	%
	Exhaust air temperature	-15.0	°C

AIR HEATER ELECTRIC

Input	Air temperature in	11.8	°C
	Requested air temp out	20.0	°C
Output	Air temperature out	20.0	°C
	Power variant	1	
	Heating power obtained	6.0	kW
	Required heating power	3.6	kW

RECOMMENDED FUSE

Air handling unit incl el.heater 25 AT 3x400 V