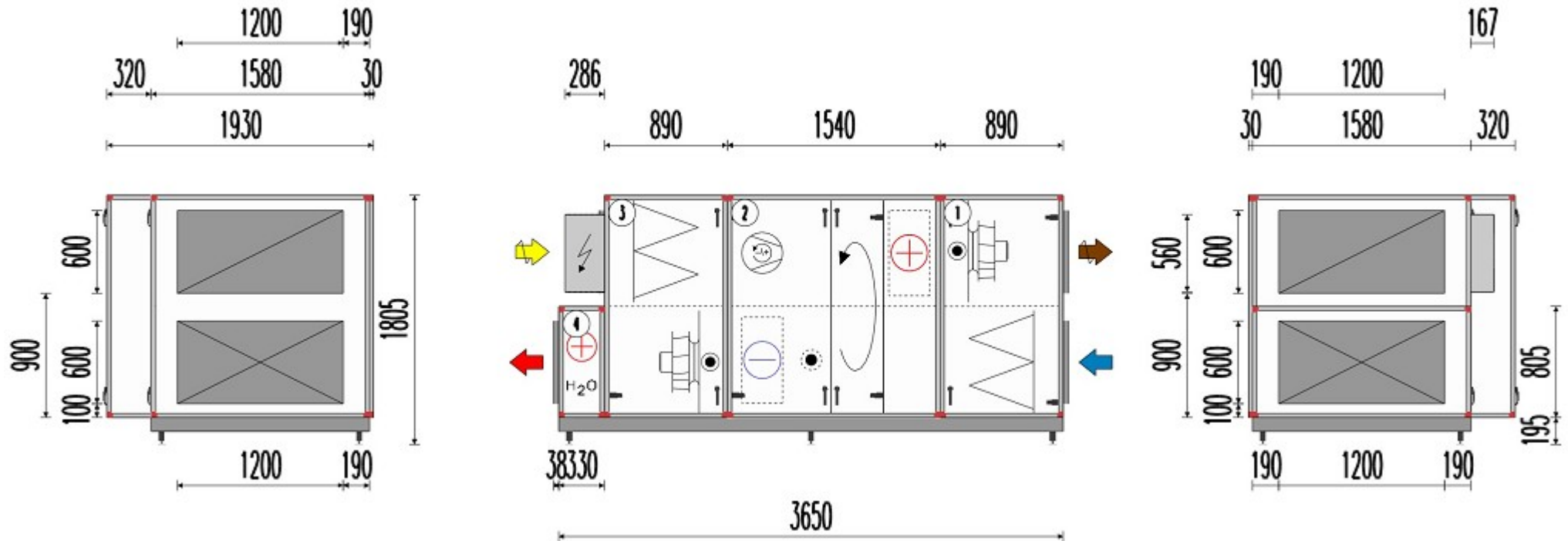


Handing side R=Right, L=Left

Product	Product code	Quant
Support	EMMT-05-300-3-3650	1
1 Fan section	ENF-300-00-E-00	1
Mode of delivery 21		
Connection kit	ENFT-01-300-00-01	1
Filter supply air	ELEF-300-F7	1
Class F7, Dim: 2x592x592 L=535, 1x592x287 L=535		
U-tube manometer	MIET-FB-01	1
Fan extract air		
EC-motor with integrated revolution control 2.82 kW, EC		
2 Cooling unit EcoCooler with cooling recovery	ACR-300-00-2V-0-40-HP-N-V	1
Integrated speed-controlled cooling unit with cooling recovery		
3 Fan section	ENF-300-00-E-00	1
Mode of delivery 34		
Connection kit	ENFT-01-300-00-02	1
Fan supply air		
EC-motor with integrated revolution control 2.82 kW, EC		
Filter extract air	ELEF-300-F6	1
Class F6, Dim: 2x592x592 L=535, 1x592x287 L=535		
U-tube manometer	MIET-FB-01	1
4 Module section	EMM-300-10-00	1
Mode of delivery V		
Air heater water	ELEV-300-00	1
Connection gable outlet	EMMT-01-300-00	1
Connection frame outlet	EMMT-02-300-1	1
Coil fitting	MIE-CL-300-10-00	1
Damper	EMT-01-300	1
Damper	EMT-01-300	1
Control system Climatix	CSF-V310-R-CX	1
El. connection	ESEK-300-12-U-U-U-R-U	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
Exhaust air damper actuator ON/OFF, spring return	STC-02-1	1
Water heating immersion detector	STD-02	1
Control valve incl. actuator for heating coil	STD-03-2V-15-0190	1
2-vägsventil		
Integrated cooling unit EcoCooler with cooling recovery	STE-V2	1
Modbus TCP/IP standard		1
Web server in text format by TCP/IP standard		1

Total for AHU

Width	1580/1930 mm	1) 278 kg
Height	1805 mm	2) 631 kg
Length	3650 mm	3) 278 kg
Weight	1309 kg	4) 72 kg



Note! Consider the required space needed to open inspection doors and for plumbing. Service space in front of cooler may not be less than 1000 mm. Access door with largest radius 880 mm is in module 1;3



Envistar Flex

Dimension drawing

Project

LLU Pils

AHU

AHU7 Zales

Size

300-2V 6000/6000 m³/h

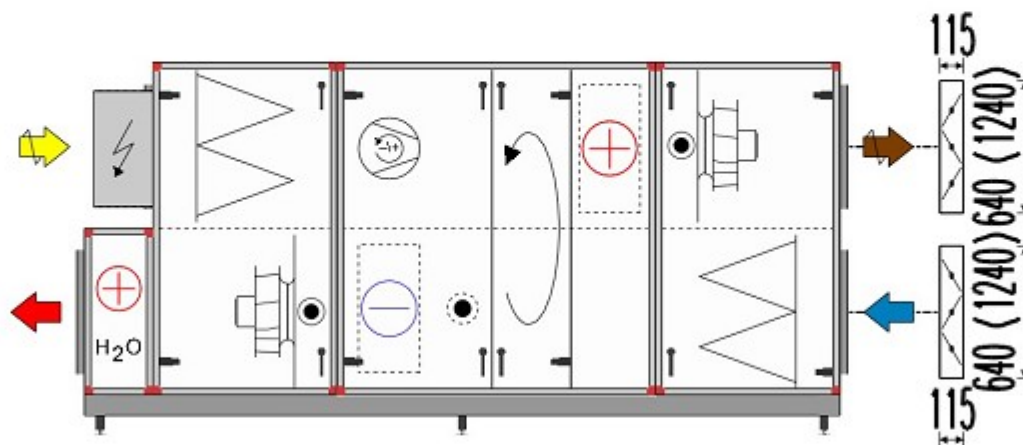


Total for AHU

Width	1580/1930 mm
Height	1805 mm
Length	3650 mm
Weight	1309 kg

Duct accessories

EMT-01 13 kg





Envistar Flex

Technical data

Project

LLU Pils

AHU

AHU7 Zales

Size

300-2V 6,000/6,000 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	1.96	kW/m³/s
--------	---------------	------	---------

Dimension and weight

Width	1,580/1,930	mm
Height	1,805	mm
Length	3,650	mm
Weight	1,309	kg

BASIC DATA

		Supply air	Extract air
Input	Flow	6,000	6,000 m³/h
	Cleaning air flow incl leakage		475 m³/h
Output	Cross sectional velocity	1.5	1.5 m/s
	Damper	3	3 Pa
	Filter F7 / F6	90	81 Pa
	Initial pressure drop	(50)	(41) Pa
	Final press. drop	(130)	(121) Pa
	Rotary heat exch.	149	149 Pa
	Cooler	47	57 Pa
	Air heater water	8	Pa
	Built-in losses	20	22 Pa
	Total internal pressure	317	312 Pa
	External pressure drop	300	300 Pa

Fans

		Supply air	Extract air
Output	Total pressure	617	612 Pa
	Fan rpm	1,480	1,506 r/m
	Total efficiency	60.5	61.8 %
	Fan power at dim press	1.70	1.78 kW
	Fan power clean filter	1.59	1.67 kW
	Motor output Power	2.82	2.82 kW
	Motor current at 400V, 3-fase	4.3	4.3 A
	Max rpm	1,780	1,780 r/m
	Capacity reserve	43	39 %
	Fan type	EC500R63D	EC500R63D
	K-factor for air flow measuring	12.81	12.81

Sound data (sound power)

Frequency band	63	125	250	500	1k	2k	4k	8k		Tota	
Supply air:										83	dB
To surroundings	70	74	64	50	43	39	33	24	dB	60	dB(A)
Outdoor air	63	71	69	60	50	45	43	33	dB	63	dB(A)
Supply air	74	81	82	77	72	69	65	60	dB	79	dB(A)
Extract air:										84	dB
To surroundings	70	71	65	50	48	49	39	27	dB	60	dB(A)
Extract air	66	68	70	61	59	60	54	38	dB	67	dB(A)
Exhaust air	73	79	83	78	74	72	69	63	dB	81	dB(A)
Total:											
To surroundings	73	76	68	53	49	49	40	29	dB	63	dB(A)

ROTARY HEAT EXCH.

	Rotor variant	HP	
Input	Air temperature in	-22.3	°C
	RH Outdoor Air	90	%
	Return air temp	22.0	°C
	RH Return Air	30	%
Output	Supply air temp. after exch.	14.6	°C
	Temperature efficiency dry	83.4	%
	Relative humidity supply air	35.1	%
	Specific humidity supply air	3.6	g/kg
	Enthalpy efficiency	80.8	%
	Exhaust air temperature	-14.9	°C

COOLING UNIT ECOCOOLER WITH COOLING

Output	Power variant	2V	
	Stepless control		
	No. compressors	1	st
	Refrigerant R407C circuit 1	8.1	kg
	Max operating current	29.0	A
Summer			
Input	Outdoor air temperature summer	27.0	°C
	RH outdoor air summer	70	%
	Supply air temp. summer	18.0	°C
	Return air temp summer	24.0	°C
	Change of humidity in room	1	g/kg
Output	Supply air temp after cooling coil	17.2	°C
	Supply air temp after fan	18.0	°C
	Max cooling power	47.5	kW
	Cooling power used	40.1	kW
	Available internal cooling load	12.0	kW
	Cooling factor	5.0	
	Evaporation water	13.3	l/h


AIR HEATER WATER

Input	Air temperature in	14.6	°C
	Requested air temp out	21.0	°C
	Liquid temp in	80.0	°C
	Liquid temp out requested	60.0	°C
	Frost protection concentration	35	%
	Frost protection	Ethylene glycol	
Output	Air temperature out	21.0	°C
	Air speed	1.8	m/s
	Liquid flow	0.12	l/s
	Pressure drop liquid	0.5	kPa
	Power variant	00	
	Heating power	12.8	kW
	Fin pitch	6.0	mm
	Tube connection	25	
	Primary side with 2-wayvalve		
	Liquid temp in	80.0	°C
	Liquid temp out	51.5	°C
	Liquid flow	0.12	l/s
	Primary side with 3-wayvalve		
	Liquid temp in	80.0	°C
	Liquid temp out	60.0	°C
	Liquid flow	0.17	l/s

RECOMMENDED FUSE

AHU	16 AT 3x400 V
Cooler	32 AT 3x400 V