

Handing side R=Right, L=Left

Product	Product code	Quant
<b>Support</b>	EMMT-05-300-2-2490	1
<b>1 Fan section</b>	ENF-300-00-E-00	1
Mode of delivery 11		
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		
<b>2 Rotary heat exch.</b>	EXA-300-00-NP	1
Mode of delivery N-H		
<b>3 Fan section</b>	ENF-300-00-E-00	1
Mode of delivery 44		
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
<b>4 Module section</b>	EMM-300-10-00	1
Mode of delivery H		
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
<b>Damper</b>	EMT-01-300	1
<b>Damper</b>	EMT-01-300	1
<b>Control system Climatix</b>	CSF-V310-R-CX	1
<b>El. connection</b>	ESEK-300-12-R-U-U-U-U	1
<b>ECO Optimized energy control</b>	STA-00	1
<b>Fixed fan speed, 1- to 3-speeds</b>	STB-01	1
<b>Outdoor air damper actuator ON/OFF spring return</b>	STC-01-1	1
<b>Exhaust air damper actuator ON/OFF, spring return</b>	STC-02-1	1
<b>Water heating immersion detector</b>	STD-02	1
<b>Control valve incl. actuator for heating coil</b>	STD-03-2V-15-0190	1
2-vägsventil		
<b>Water cooling</b>	STE-03	1
<b>Control valve incl. actuator for cooling coil</b>	STE-04-3V-32-1600	1
3-vägsventil		



## Envistar Flex

*Material specification detailed*

**Project**

LLU Pils

**AHU**

AHU5

**Size**

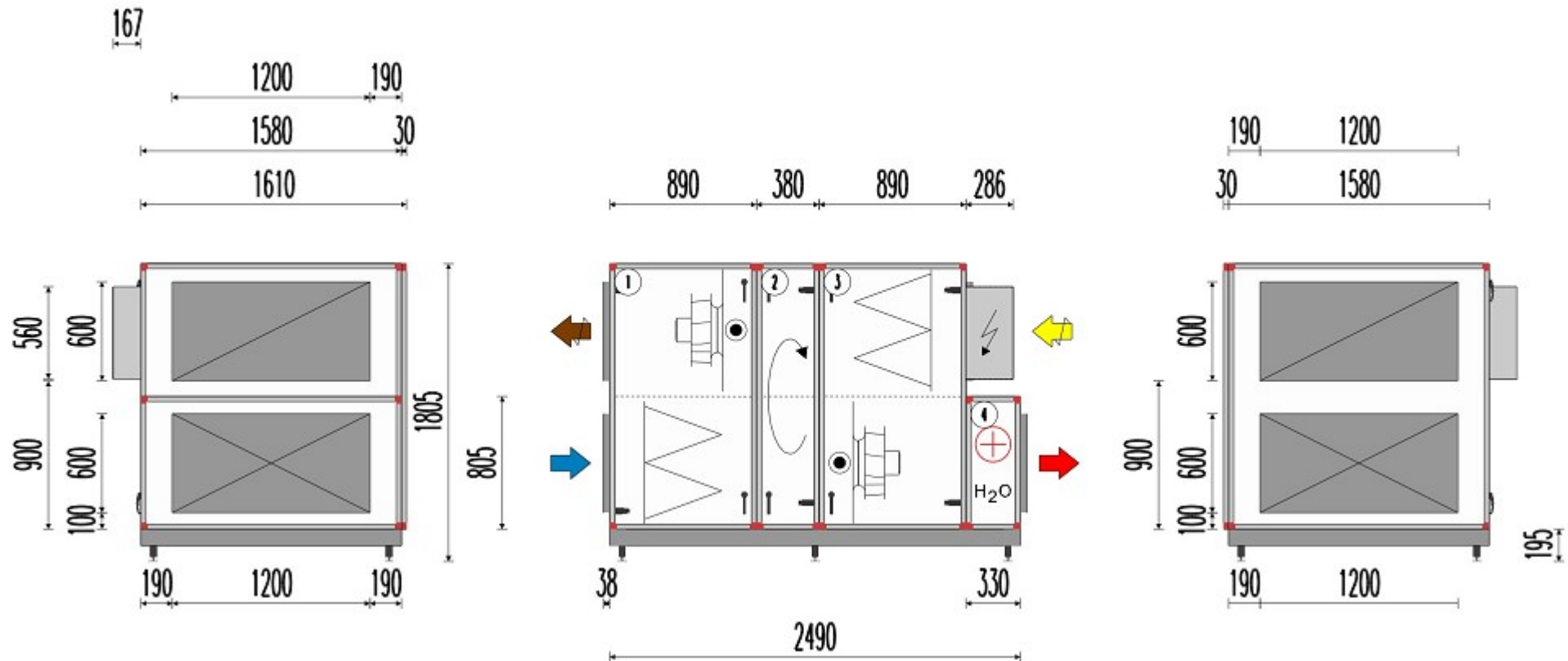
300 5630/5530 m³/h



Product	Product code	Quant
Modbus TCP/IP standard		1
Web server in text format by TCP/IP standard		1

**Total for AHU**

Width	1580/1610 mm	1) 278 kg
Height	1805 mm	2) 215 kg
Length	2490 mm	3) 278 kg
Weight	883 kg	4) 72 kg



Note! Consider the required space needed to open inspection doors and for plumbing.  
Access door with largest radius 880 mm is in module 1;3



## Envistar Flex

## Dimension drawing

Project

LLU Pils

AHU

AHU5

Size

300 5630/5530 m³/h

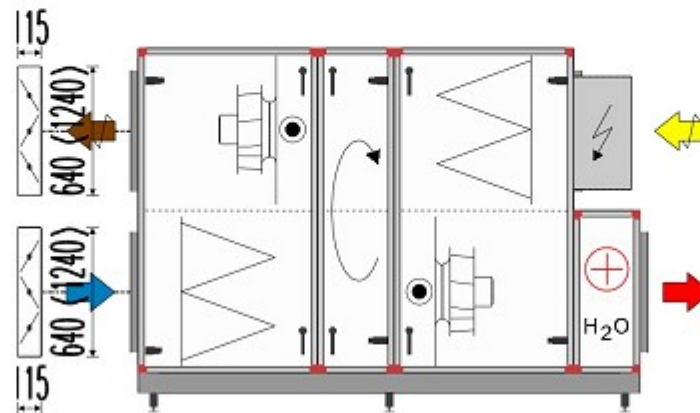


### Total for AHU

Width	1580/1610 mm
Height	1805 mm
Length	2490 mm
Weight	883 kg

### Duct accessories

EMT-01 13 kg





## Envistar Flex

## Technical data

<b>Project</b>	LLU Pils
<b>AHU</b>	AHU5
<b>Size</b>	300 5,630/5,530 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	1.87	kW/m³/s
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### Dimension and weight

Width	1,580/1,610	mm
Height	1,805	mm
Length	2,490	mm
Weight	883	kg

### BASIC DATA

		Supply air	Extract air
Input	Flow	5,630	5,530 m³/h
	Cleaning air flow incl leakage		455 m³/h
Output	Cross sectional velocity	1.4	1.3 m/s
	Damper	3	2 Pa
	Filter F7 / F6	86	76 Pa
	Initial pressure drop	(46)	(36) Pa
	Final press. drop	(126)	(116) Pa
	Rotary heat exch.	129	126 Pa
	Air heater water	7	Pa
	Built-in losses	18	20 Pa
	Total internal pressure	243	224 Pa
	External pressure drop	350	350 Pa

### Fans

		Supply air	Extract air
Output	Total pressure	593	574 Pa
	Fan rpm	1,437	1,440 r/m
	Total efficiency	59.5	61.0 %
	Fan power at dim press	1.56	1.57 kW
	Fan power clean filter	1.46	1.46 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	47	47 %
	Fan type	EC500R63D	EC500R63D
	K-factor for air flow measuring	12.81	12.81



## Envistar Flex

## Technical data

**Project**

LLU Pils

**AHU**

AHU5

**Size**

300 5,630/5,530 m³/h



### Sound data (sound power)

Frequency band	63	125	250	500	1k	2k	4k	8k		Tota	
Supply air:										83	dB
To surroundings	70	75	64	50	43	38	32	23	dB	61	dB(A)
Outdoor air	64	74	71	63	52	47	45	36	dB	66	dB(A)
Supply air	74	82	82	77	72	68	64	59	dB	79	dB(A)
Extract air:										83	dB
To surroundings	69	72	63	50	43	38	33	23	dB	59	dB(A)
Extract air	64	70	70	62	52	48	46	36	dB	64	dB(A)
Exhaust air	73	80	82	78	74	70	68	62	dB	80	dB(A)
Total:											
To surroundings	73	77	67	53	46	41	36	26	dB	63	dB(A)

### ROTARY HEAT EXCH.

	Rotor variant	NP	
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	83.3	%
	Exhaust air temperature	-15.6	°C

### 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	1.7	m/s
	Liquid flow	0.11	l/s
	Pressure drop liquid	0.4	kPa
	Power variant	00	
	Heating power	12.1	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	0.11	l/s
	Primary side with 3-wayvalve		
	Liquid temp in	80.0	°C
	Liquid temp out	60.0	°C
	Liquid flow	0.16	l/s



## Envistar Flex

## Technical data

Project

LLU Pils

AHU

AHU5

Size

300 5,630/5,530 m<sup>3</sup>/h



### RECOMMENDED FUSE

AHU

16 AT 3x400 V