

<b>Project</b>	LLU Pils
<b>AHU</b>	AHU3
<b>Size</b>	740 15110/15110 m³/h



Handing side R=Right, L=Left

Product	Product code	Quant
<b>Support</b>	EMMT-05-740-0-370	1
<b>1 Fan section</b>	ENF-740-00-1-00	1
Mode of delivery 21		
Connection kit	ENFT-01-740-00-01	1
Filter supply air	ELEF-740-F7	1
Class F7, Dim: 4x592x592 L=535, 4x592x287 L=535		
U-tube manometer	MIET-FB-01	1
Fan extract air		
Motor eff1,IE2 w. integrated frequency converter 7.50 kW, 4-pole		
<b>2 Rotary heat exch.</b>	EXA-740-00-NP	1
Mode of delivery N-V		
<b>3 Fan section</b>	ENF-740-00-1-01	1
Mode of delivery 34		
Connection kit	ENFT-01-740-00-02	1
Fan supply air		
Motor eff1,IE2 w. integrated frequency converter 7.50 kW, 4-pole		
Filter extract air	ELEF-740-F6	1
Class F6, Dim: 4x592x592 L=535, 4x592x287 L=535		
U-tube manometer	MIET-FB-01	1
<b>4 Module section</b>	EMM-740-10-00	1
Mode of delivery V		
Air heater water	ELEV-740-00	1
Connection gable outlet	EMMT-01-740-00	1
Connection frame outlet	EMMT-02-740-1	1
Coil fitting	MIE-CL-740-10-00	1
<b>Damper</b>	EMT-01-740	1
<b>Damper</b>	EMT-01-740	1
<b>Control system Climatix</b>	CSM-V316-R-CX	1
<b>El. connection</b>	ESEK-740-12-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-01-2	1
<b>Exhaust air damper actuator ON/OFF, spring return</b>	STC-02-2	1
<b>Water heating immersion detector</b>	STD-02	1
<b>Control valve incl. actuator for heating coil</b>	STD-03-2V-15-0400	1
2-vägsventil		
<b>Water cooling</b>	STE-03	1



## Envistar Flex

## Material specification detailed

**Project**

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**Size**

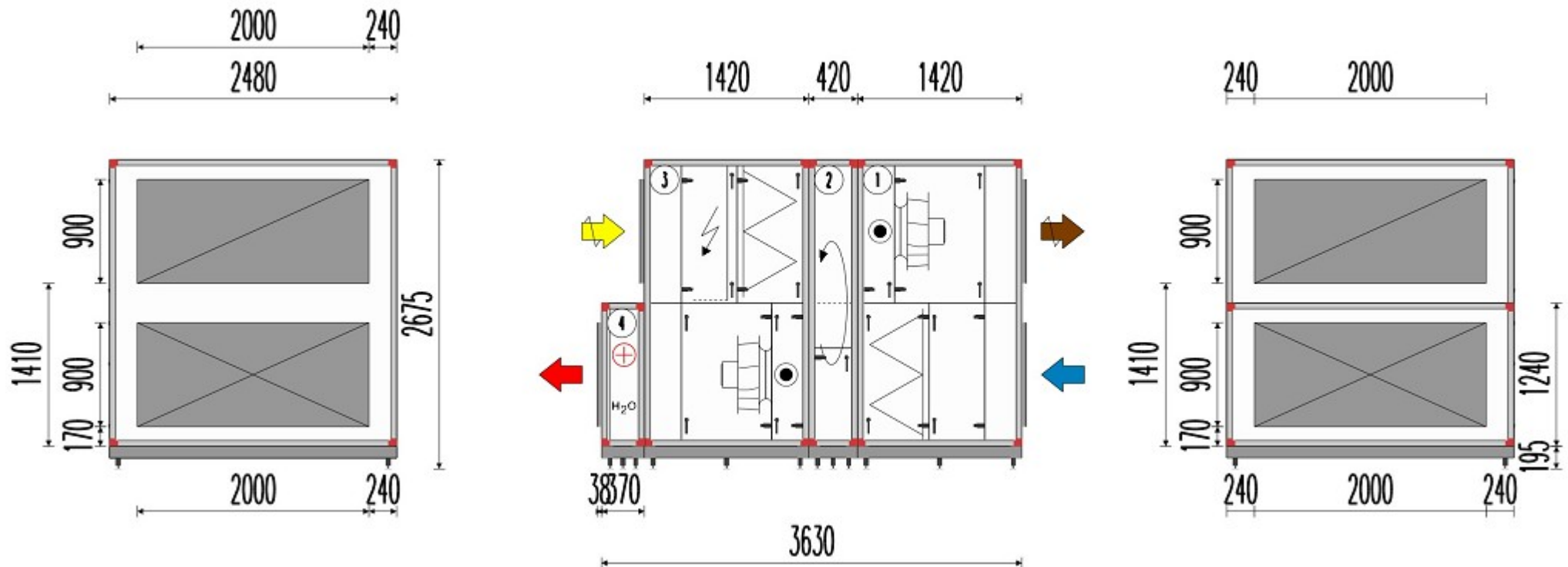
740 15110/15110 m³/h



Product	Product code	Quant
Control valve incl. actuator for cooling coil 3-vägsventil	STE-04-3V-32-1600	1
Modbus TCP/IP standard		1
Web server in text format by TCP/IP standard		1

**Total for AHU**

Width	2480 mm	1) 785 kg
Height	2675 mm	2) 496 kg
Length	3630 mm	3) 797 kg
Weight	2261 kg	4) 147 kg



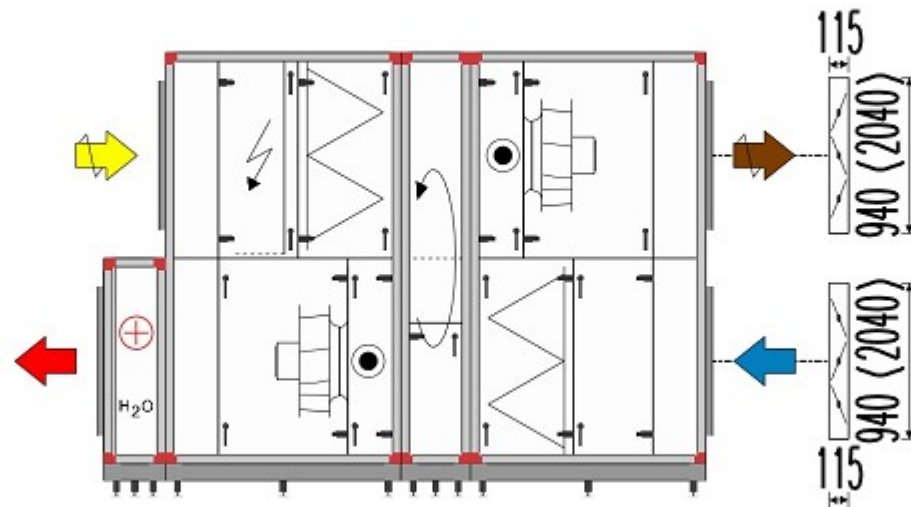
Note! Consider the required space needed to open inspection doors and for plumbing.  
Access door with largest radius 770 mm is in module 1;3

**Total for AHU**

Width	2480 mm
Height	2675 mm
Length	3630 mm
Weight	2261 kg

**Duct accessories**

EMT-01 28 kg





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## Technical data

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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	2.08	kW/m³/s
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### Dimension and weight

Width	2,480	mm
Height	2,675	mm
Length	3,630	mm
Weight	2,261	kg

### BASIC DATA

		Supply air	Extract air
Input	Flow	15,110	15,110 m³/h
	Cleaning air flow incl leakage		979 m³/h
Output	Cross sectional velocity	1.5	1.5 m/s
	Damper	3	3 Pa
	Filter F7 / F6	93	84 Pa
	Initial pressure drop	(53)	(44) Pa
	Final press. drop	(133)	(124) Pa
	Rotary heat exch.	146	146 Pa
	Air heater water	7	Pa
	Built-in losses	26	29 Pa
	Total internal pressure	275	262 Pa
	External pressure drop	400	400 Pa

### Fans

		Supply air	Extract air
Output	Total pressure	675	662 Pa
	Fan rpm	1,142	1,164 r/m
	Fan efficiency static	74.5	73.8 %
	(Fan efficiency tot)	79.2	79.2 %
	Input power fan	3.80	4.01 kW
	Motor efficiency	83.8	84.3 %
	Total efficiency	62.5	62.3 %
	Fan power at dim press	4.54	4.75 kW
	Fan power clean filter	4.27	4.47 kW
	Motor output Power	7.50	7.50 kW
	Motor current at 400V, 3-fase	15.1	15.1 A
	Max rpm	1,390	1,390 r/m
	Capacity reserve	45	41 %
	Max. frequency	47	47 Hz
	Fan type	071C-F1-0750	071C-F1-0750
	K-factor for air flow measuring	7.30	7.30

**Sound data (sound power)**

Frequency band	63	125	250	500	1k	2k	4k	8k		Tota	
Supply air:										90	dB
To surroundings	74	75	66	56	51	45	36	27	dB	62	dB(A)
Outdoor air	71	74	74	73	68	58	51	41	dB	73	dB(A)
Supply air	78	82	84	83	80	75	68	63	dB	85	dB(A)
Extract air:										90	dB
To surroundings	75	75	67	56	51	46	36	28	dB	63	dB(A)
Extract air	73	74	75	73	68	59	51	42	dB	73	dB(A)
Exhaust air	79	83	86	84	82	78	71	67	dB	86	dB(A)
Total:											
To surroundings	78	78	70	59	54	49	39	31	dB	66	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.	14.4	°C
	Temperature efficiency dry	82.9	%
	Exhaust air temperature	-14.7	°C

**AIR HEATER WATER**

Input	Air temperature in	14.4	°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	0.25	l/s
	Pressure drop liquid	1.2	kPa
	Power variant	00	
	Heating power	33.5	kW
	Fin pitch	6.0	mm
	Tube connection	32	
	Primary side with 2-wayvalve		
	Liquid temp in	80.0	°C
	Liquid temp out	45.3	°C
	Liquid flow	0.25	l/s
	Primary side with 3-wayvalve		
	Liquid temp in	80.0	°C
	Liquid temp out	60.0	°C
	Liquid flow	0.44	l/s



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### RECOMMENDED FUSE

AHU

40 AT 3x400 V