Electa-REK

UTR 20-30 - UTRR 15/45

Air flow rate 200 – 300 – 150/450 m³/h

Features

Extremely thin.

Integrated air quality and humidity sensor.

Very high efficiency filters in class ePM1 80%.

High efficiency passive recovery unit >90%, in sensitive or enthalpy version.

BLDC horizontal rotary compressor and constant-flow EC fan.

Touch control as standard

Tax incentives*

Fresh air terminal units with heat pump active thermodynamic recovery and opposing flow passive recovery.

Construction features

• Recovery unit:

– First stage of heat recovery of static air-air type, sensitive or enthalpy, with opposing flows in very high efficiency polypropylene.

– Second stage of heat pump active thermodynamic heat recovery (with R410A gas) consisting of high efficiency BLDC horizontal rotary hermetic compressor, evaporating and condensing coils with copper pipes and aluminium fins, electronic expansion valve and safety devices, 4-way valve for cycle inversion and dryer filter.

• Fans: UTR double-intake centrifugal fans with constant flow EC motor for fresh and expelled air; UTRR: EC radial fans with constant flow for fresh and expelled air, centrifugal fans with double-intake, with EC motor, for recirculation air.

• Filtering section: 80% ePM1 filters with low pressure drop air side renewal and ambient inlet, both removable at the bottom; 70% coarse filters on the recirculation side removable at the bottom, for UTRR.

• Self-supporting structure, double side sandwich panelling, internally galvanised sheet steel and externally painted (RAL 9003), with high density polystyrene insulation (42 kg/m3; 25 mm thick), additional external insulation panels only for UTRR.. Circular inlets with sealing gasket for connection to the air ducts; lower condensate collection tank with double drain. Rectangular flange with additional heating elements (2 x1 kW) on the inlet side, only for UTRR.

• Electrical adjustment and power panel integrated on the unit; electronic microprocessor control for fan speed management, room temperature setting, timed dirty filter management, air quality sensor management with flow modulation, summer/winter changeover and defrosting cycles.

Version

• UTR-S - Fresh air units with heat pump active thermodynamic recovery and opposing flow passive sensitive heat recovery.
• UTR-X - Fresh air terminal units with heat pump active thermodynamic recovery and opposing flow passive enthalpic heat recovery.
• UTRR-S - Fresh/recirculation air units with heat pump active thermodynamic recovery and opposing flow passive sensitive heat recovery.
• UTRR-X - Fresh/recirculation air units with heat pump active thermodynamic recovery and opposing flow passive enthalpic heat recovery.

Controls supplied separately: MANDATORY

One of the following controls is MANDATORY to operate the unit:
• KPUTB - Wall-mounted touch control panel, glossy black, to adjust room temperature, ON/OFF, summer/winter, Auto, Night, MIN, MAX speed, alarm signalling, with Wifi board, RS485 Modbus RTU interface and connection cable, up to 15 m from the unit.
• KPUTW - Wall-mounted touch control panel, pearl white, to adjust room temperature, ON/OFF, summer/winter, Auto, Night, MIN, MAX speed, alarm signalling, with Wifi board, RS485 Modbus RTU interface and connection cable, up to 15 m from the unit.

Technical data

MODEL			UTR-S 20	UTR-S 30	UTRR-S 15/45	UTR-X 20	UTR-X 30	UTRR-X 15/45
Nominal fresh air flow	MAX	m³/h	235	318	150	235	318	150
Fresh air flow	MED	m³/h	210	235	90	210	235	90
Fresh air flow	MIN	m³/h	135	165	50	135	165	50
Nominal supply air flow rate	MAX	m³/h	-	-	462	-	-	462
Supply air flow rate	MED	m³/h	-	-	370	-	-	370
Supply air flow rate	MIN	m³/h	-	-	280	-	-	280
Available static pressure		Pa	100	100	100	100	100	100
❶ Sound pressure	MAX	dB(A)	40,0	41,5	42,0	40,0	41,5	42,0
ELECTRICAL SPECIFICATIONS								
Electrical supply		V-ph-Hz	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50
Max. absorption		A	8,50	8,50	18,30	8,50	8,50	18,30
❷❹ **PERFORMANCE IN HEATING MODE**			**UTR-S 20**	**UTR-S 30**	**UTRR-S 15/45**	**UTR-X 20**	**UTR-X 30**	**UTRR-X 15/45**
Static recovery minimum efficiency		temperature/enthalpy	85%	83%	87%	69% / 36%	64% / 34%	72% / 39%
Passive recovery		kW	1,69	2,23	1,06	1,74	2,25	1,48
Active recovery nom. heating capacity		kW	2,29	2,92	2,65	2,32	2,95	2,65
Total heating capacity		kW	3,98	5,15	3,71	4,06	5,20	4,13
Absorbed power		kW	0,75	0,95	0,88	0,74	0,93	0,88
Overall COP			5,31	5,42	4,22	5,49	5,59	4,69
❸❹ **PERFORMANCE IN COOLING MODE**			**UTR-S 20**	**UTR-S 30**	**UTRR-S 15/45**	**UTR-X 20**	**UTR-X 30**	**UTRR-X 15/45**
Static recovery minimum efficiency		temperature/enthalpy	77%	74%	82%	69% / 28%	64% / 25%	71% / 35%
Passive recovery		kW	0,48	0,62	0,31	0,67	0,77	0,50
Active recovery nom. cooling capacity		kW	1,98	2,37	2,30	1,98	2,38	2,30
Total cooling capacity		kW	2,46	2,99	2,61	2,65	3,15	2,80
Absorbed power		kW	0,68	0,84	0,75	0,67	0,83	0,75
Overall EER			3,62	3,56	3,48	3,36	3,80	3,73
DIMENSIONS AND WEIGHTS			**UTR-S 20**	**UTR-S 30**	**UTRR-S 15/45**	**UTR-X 20**	**UTR-X 30**	**UTRR-X 15/45**
L – Width		mm	850	850	1003	850	850	1003
H – Height		mm	255	255	279	255	255	279
P – Depth		mm	1150	1150	1094	1150	1150	1094
Weight		kg	82	82	75	82	82	75

❹ **OPERATING RANGE**					
Winter operating conditions		Indoor Air	10°C / 25°C	Outdoor Air	-20°C / 20°C
Summer operating conditions		Indoor Air	18°C / 28°C	Outdoor Air	20°C / 38°C

Preliminary data at the following conditions:

❶ In open field, 1 m from the unit, according to EN 3744; available static pressure 50 Pa.

❷ Outdoor air – 5°C RH 80%; ambient air 20°C, RH 50%.

❸ Outdoor air 35°C, RH 50%; ambient air 27°C, RH 60%.

❹ At the nominal flow rate.

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