

REKO HEAT RECOVERY UNITS

The heat recovery units making up the series **REKO** have been designed and built to solve the problems tied to the high energy consumption of systems that use outdoor air.

A high-efficiency heat exchanger makes it possible to recover up to 50% of the thermal energy that would otherwise be expelled into the atmosphere as exhaust.

Available in 7 different sizes with a nominal air flow rate ranging from 600 to 4000 m³/h, reko heat recuperators complete traditional systems comprising fan coil units and air-conditioning units which work both in summer and winter.

The reko units are especially suitable for false-ceiling installation and can be ducted to allow air to be drawn from and discharged directly into the room.

BEARING STRUCTURE

Reko units have a structure built from **ALUZINK**, with single or dual panelling with polyethylene and polyester heat and sound insulation, thickness 10mm for sizes 06 - 10 and 20 mm for sizes 14 - 19 - 25 - 30 and 40.

The panels are secured to the structure with cadmium-plated steel screws.

All internal components are accessible for inspection and may be very easily removed from below if necessary.

FAN MOTORS

The fan-drive assemblies comprise a **dual suction** fan with forward-curved blades mounted on vibration-damping supports. They are sized in order to work at maximum speed while generating as little noise as possible.

The electric motor is a single-phase 230 V - 50 Hz motor with one or more speeds that may be adjusted from the control panel. It is **directly coupled with the fan**.



HEAT EXCHANGER

The **plate heat exchanger is of the cross-flow static type** and can guarantee a **high yield** in all operating conditions.

The plates are made of aluminium and the flows are separated by special seals. A stainless steel drip tray with a circular drain pipe is situated beneath the heat exchanger.

AIR FILTER

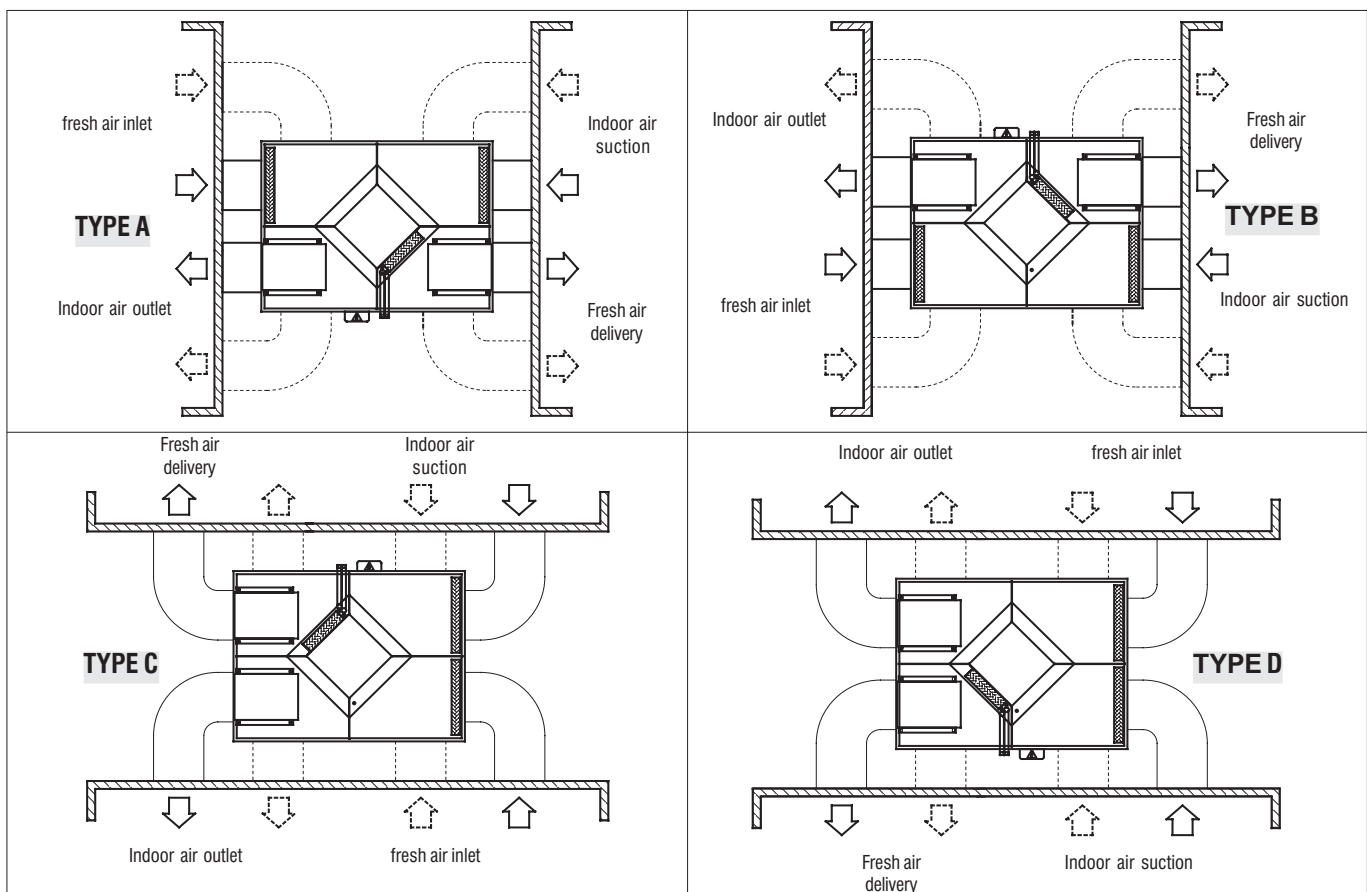
The filters have flat cells with a corrugated partition; they can be removed from below and are washable, with class G3 synthetic fibre filtering media (efficiency 85% by weight).

ACCESSORIES

- BAP** hot water coil
- REP** electrical heating element
- CDE** wall-mounted speed switch
- TDV** wall-mounted control panel complete with thermostat
- SAF** chilled water coil
- TEG** anti-freeze thermostat
- TATM** Covering panels for outdoor unstation

CONFIGURATION

Available in stock in the A configuration, the position of air suction and delivery for both fresh and indoor air can be adjusted during the installation job as shown in the pictures below



REKO rated technical data								
Model		06	10	14	19	25	30	40
Air flow	m ³ /h	600	1000	1400	1900	2500	3200	4000
Available static pressure	Pa	80	90	140	120	110	170	170
Sound pressure	dB(A)	56	54	59,5	58	57,5	60	62
FAN-MOTOR GROUP								
Axle power available	W	2x90	2x147	2x350	2x350	2x350	2x550	2x750
Poles	n°	2	4	4	4	4	4	4
Maximum current absor	A	1,8	3	5,8	6,2	6	11,4	6,2
Fan speeds	n°	1	3	3	3	3	3	2
Protection degree	IP	54	44	55	44	55	20	55
Insulation class		F	F	F	F	F	F	F
Power supply	V	230	230	230	230	230	230	400
HEAT EXCHANGER								
Efficiency	%	54,6	53,4	52,1	51,8	57,6	56	55,6
Heating capacity	kW	2,6	4,6	6,2	8,4	12,3	15,3	19,4
Outlet air temperature	°C	8,7	8,3	8	7,9	9,4	9	8,9
FILTERS								
Class		G3	G3	G3	G3	G3	G3	G3
Frontal air speed	m/s	3,6	2,9	4,1	4,5	3,8	4,3	4,3
Dimensions	mm	300	356	356	363	528	528	528
		178	293	293	353	373	413	513
		48	48	48	48	48	48	48

The aforesaid performance is related to the following conditions
 - indoor air temperature = 20°C fresh air = -5°C
 - rated air flow

REKO - heat recovery units					
Code	Model	Air flow m ³ /h	Available static pressure Pa	heat exchanger efficiency %	Price list €
REK006	REKO 06 - Singer skin heat recovery unit	600	80	54,90	2.530,82
REK010	REKO 10 - Singer skin heat recovery unit	1000	90	53,40	3.117,73
REK014	REKO 14 - Singer skin heat recovery unit	1400	140	52,10	3.642,87
REK019	REKO 19 - Singer skin heat recovery unit	1900	120	51,8	4.365,49
REK025	REKO 25 - Singer skin heat recovery unit	2500	110	57,6	5.015,30
REK030	REKO 30 - Singer skin heat recovery unit	3000	170	56	5.489,68
REK040	REKO 40 - Singer skin heat recovery unit	4000	170	55,6	6.557,62
REK006DP	REKO 06 DP - Double skin heat recovery unit	600	80	54,90	2.765,81
REK010DP	REKO 10 DP - Double skin heat recovery unit	1000	90	53,40	3.330,66
REK014DP	REKO 14 DP - Double skin heat recovery unit	1400	140	52,10	3.931,92
REK019DP	REKO 19 DP - Double skin heat recovery unit	1900	120	51,80	4.721,83
REK025DP	REKO 25 DP - Double skin heat recovery unit	2500	110	57,6	5.489,68
REK030DP	REKO 30 DP - Double skin heat recovery unit	3000	170	56	5.927,67
REK040DP	REKO 40 DP - Double skin heat recovery unit	4000	170	55,6	6.908,44

Wall mounted control panel

Code	Description	Price list €
EYCDE	CDE Wall mounted speed selector switch	26,41
EYTDV	TDV Wall mounted control panel provided with fan speed selector, electromechanical thermostat, and cooling / heating mode selector	88,03

Post heating water coil (factory mounted)

Code	Description	Price list €
BAP10	Post heating water coil for REKO 10	435,78
BAP14	Post heating water coil for REKO 14	542,79
BAP19	Post heating water coil for REKO 19	646,50
BAP25	Post heating water coil for REKO 25	723,72
BAP30	Post heating water coil for REKO 30	728,14
BAP40	Post heating water coil for REKO 40	885,89

Post electric heater element (factory mounted)

Code	Description	Price list €
REP06	post electric heater for REKO 06, 230 V single-phase, 4 kW	732,54
REP10	post electric heater for REKO 10, 400 V three-phase 4,5 kW	909,06
REP14	post electric heater for REKO 14, 400 V three-phase 6 kW	1.071,24
REP19	post electric heater for REKO 19, 400 V three-phase 9 kW	1.247,75
REP25	post electric heater for REKO 25, 400 V three-phase 12 kW	1.342,63
REP30	post electric heater for REKO 30, 400 V three-phase 12 kW	1.342,63
REP40	post electric heater for REKO 40, 400 V three-phase 12 kW	1.342,63

Chilled water coil module

Code	Description	Price list €
SAF10	Water coil post heating for REKO 10	747,99
SAF14	Water coil post heating for REKO 14	747,99
SAF19	Water coil post heating for REKO 19	885,89
SAF25	Water coil post heating for REKO 25	965,33
SAF30	Water coil post heating for REKO 30	1.096,62
SAF40	Water coil post heating for REKO 40	1.096,62

Anti-freeze thermostat

Code	Description	Price list €
TEG	Anti-freeze thermostat REKO	218,44

Covering panels for outdoor installation

Code	Description	Price list €
TATM	covering panels for outdoor installation REKO *	165,48

* price list at square meter



Via Romagnoli 12/a - 40010 Bentivoglio Bologna Italia
Tel. +39 051 89 08 111 fax +39 051 89 08 122
www.galletti.it - galletti@galletti.it

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