

GB

# REKO



## HEAT RECOVERY TECHNICAL MANUAL

CE

COMPANY  
WITH QUALITY SYSTEM  
CERTIFIED BY DNV  
= ISO 9001/2000 =

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## 1 MAIN FEATURES

The new heat-recovery units range REKO was studied for ambients where frequent air renewal are necessary, recovering part of the heat that otherwise would be lost in the stale air.

The heat recovery range REKO is made of 7 models with air flow from 600 to 4000 m<sup>3</sup>/h and are suitable in false ceiling installation.

## 2 COMPONENTS AND CONSTRUCTIVE VERSIONS

## VERSIONS

<b>REKO</b>	Simple panelling heat recovery unit
<b>REKO DP</b>	Double panelling heat recovery unit

## COMPONENTS

- Completely removable aluzink plate side panels.
- Panel thermal and acoustic insulation by means of polyethylene/polyester panels with a medium thickness of 10 mm for REKO 06-10 and 20 mm for all the other models.
- High efficiency aluminium plate static type heat recuperators, with air flows separated by special seals.
- UE3 efficiency air filters, which may be easily removed from the sides allowing their periodic cleaning.
- Fan bodies mounted on anti-vibrators.
- Air double suction centrifugal renewal collection and blow out fans which may be removed from the sides for their periodic maintenance.
- Three speed directly coupled electric motors. (single speed for REKO 06 model).
- To aid the electrical connections and ventilator control, a terminal block with a relay board is fitted.
- Stainless steel condensation collecting tray, with condensation drainage towards the lower part.

DECLARATION OF CONFORMITY 

Galletti S.p.A. with head office in via Romagnoli 12/a, 40100 Bentivoglio (BO) - Italy, declares herewith under its own responsibility that the heat recovery units REKO, are produced in accordance with the EEC Directives 73/23, 89/392, 91/368, 93/44, 93/68 and 89/336.

Bologna, 16/12/2002

Luigi Galletti  
President



## OPERATING LIMITS

Thermal carrier: **water**

Water temperature: **+ 5°C ÷ +95°C**

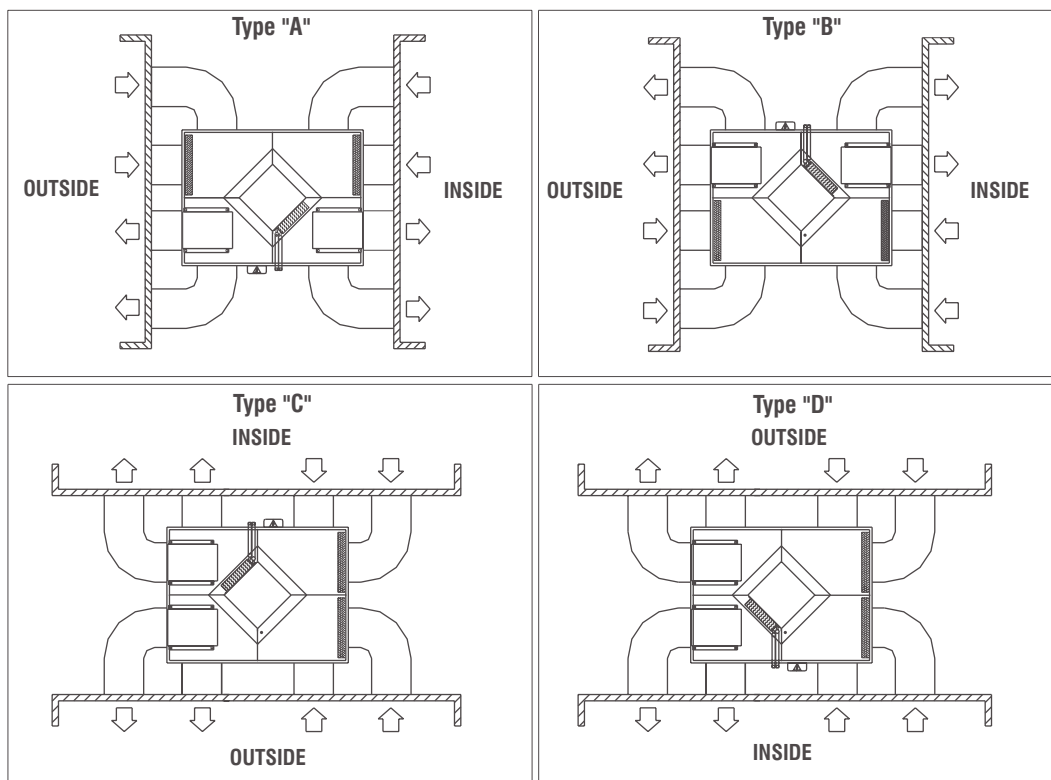
Air temperature: **-10°C ÷ + 40°C**

Power supply: **+/-10 %**

Max. pressure of primary fluid: **10 bar**

### 3 POSSIBLE CONFIGURATIONS

For each size available there are 4 different positions for the recuperators. Depending on the net configuration and available space, one of the 4 possibilities below may be employed.

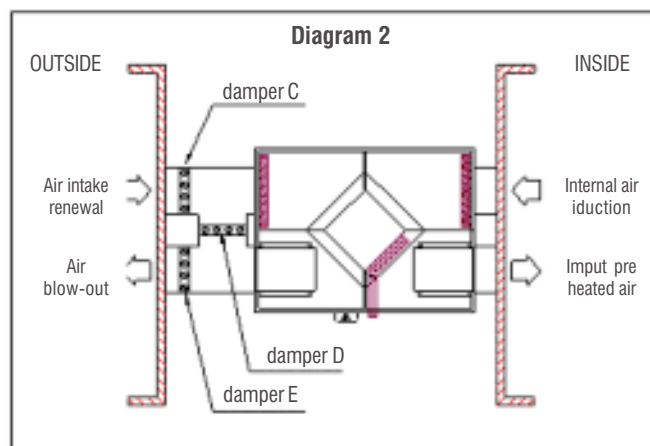
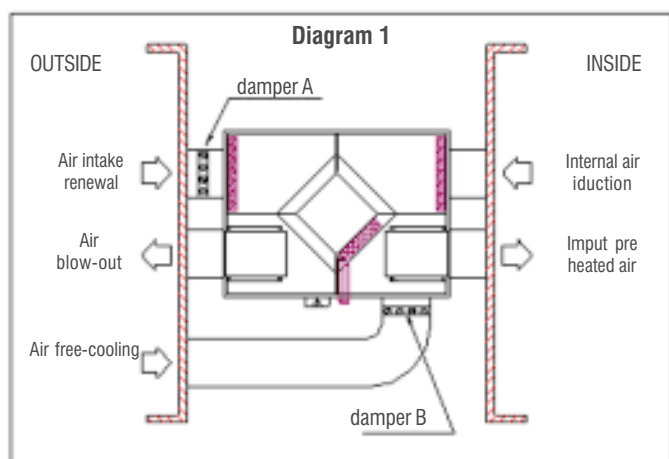


#### 3.1 FREE COOLING

When the external temperature is close to the internal temperature the recuperator may be bypassed inserting fresh air directly in the room. It is possible to do this by opening damper B and at the same time closing damper A.

#### 3.2 DEFROSTING

Defrosting. In very cold periods the room delivery air could frost blocking the passage through the recuperator. Installing an antifreeze thermostat (optional) combined with the bypass system indicated in the figure unit defrosting is obtained.



## 4 RATED TECHNICAL DATA

Model		0 6	10	14	19	25	30	40
Air flow	m <sup>3</sup> /h	600	1000	1400	1900	2500	3200	4000
Available static pressure	Pa	80	90	140	120	110	170	170
Sound pressure	dB(A)	56,0	54,0	59,5	58,0	57,5	60,0	62,0
<b>FAN-MOTOR GROUP</b>								
Axle power available	W	2x90	2x147	2x350	2x350	2x350	2x550	2x750
Poles	n°	2	4	4	4	4	4	4
Maximum current absorbed	A	1,8	3,0	5,8	6,2	6,0	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
<b>HEAT EXCHANGER</b>								
Efficiency	%	54,6	53,4	52,1	51,8	57,6	56,0	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	8,0	7,9	9,4	9,0	8,9
<b>FILTERS</b>								
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

## 5 AVAILABLE OPTIONS

### CONTROLS

#### CDE - wall mounted speed selector

Wall mounted control panel is provided with a 3 positions (3 speed) and switch ON/OFF. The CDE control panel allows the ON/OFF and fan speed selection of the unit.



#### TDV - Wall mounted control with speed selector, thermostat and summer-winter selector

Wall mounted control panel provided with fan speed selector, electromechanical thermostat, and cooling / heating mode selector.

Fan speed control and regulation of the room temperature:

- manual setting of the operation fan speed;
- regulation of the room temperature both in heating and cooling modes, by means of on/off of the electric heater or by means of opening or closing of the regulating valve installed before the re-heating water coil.

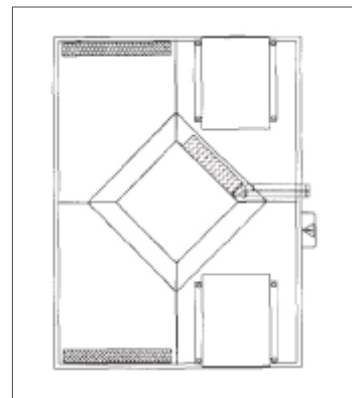


## 5 AVAILABLE OPTIONS

### 5.1 BAP - HEATING WATER COIL

The BAP unit is supplied whenever pre-heating is required and is connected directly inside the basic unit. The thermal yield of these units in function of the various external conditions is given in the following table.

Code		BAP10	BAP14	BAP19	BAP25	BAP30	BAP40
Ranks	n°	3	3	3	3	3	3
Rank tubes	n°	14	14	16	17	17	21
Geometry		2522	2522	2522	2522	2522	2522
Fin distance	mm	2,5	2,5	2,5	2,5	2,5	2,5
Heating capacity	kW	11,3	16,3	20,4	29,7	35,1	44,3
Outlet air temperature	°C	40,5	41,5	39,0	42,2	39,6	39,9
Air side pressure drop	Pa	65	64	85	62	85	92
Water side pressure drop	kPa	13	31	18	20	27	49
Weight	kg	3,0	3,0	3,0	6,0	6,0	7,5



Water temperature 70-60°C, air temperature 8°C, nominal air capacity

- Tiw** Inlet water temperature
- Tuw** Outlet water temperature
- Qv** Air flow
- Tia** Inlet air temperature
- Tua** Outlet air temperature
- Δpa** Air pressure drop
- Gw** Water flow
- Δpw** Water pressure drop
- PT** Heating capacity

REKO 10 - Tiw 70°C / Tuw 60°C						
Qv	Tia	Tua	Δpa	G w	Δ p w	PT
[m <sup>3</sup> / h]	[°C]	[°C]	[Pa]	[l/s]	[Pa]	[kW]
700	8	44,2	35	0,21	9	8,8
	10	45,1	35	0,21	9	8,5
	12	46,0	36	0,20	8	8,1
800	8	42,8	45	0,24	10	9,7
	10	43,8	45	0,23	9	9,3
	12	44,8	45	0,22	9	8,9
900	8	41,6	54	0,26	12	10,5
	10	42,6	55	0,25	11	10,1
	12	43,6	55	0,24	10	9,7
1000	8	40,5	65	0,27	13	11,3
	10	41,5	65	0,26	13	10,8
	12	42,6	66	0,25	12	10,4
REKO 19 - Tiw 70°C / Tuw 60°C						
Qv	Tia	Tua	Δpa	G w	Δ p w	PT
[m <sup>3</sup> / h]	[°C]	[°C]	[Pa]	[l/s]	[Pa]	[kW]
1300	8	43,0	44	0,38	11	15,8
	10	44,0	45	0,37	10	15,2
	12	44,9	45	0,36	10	14,6
1500	8	41,5	57	0,42	13	17,4
	10	42,5	57	0,41	12	16,8
	12	43,5	58	0,39	12	16,1
1700	8	40,2	70	0,46	16	19,0
	10	41,3	71	0,45	14	18,3
	12	42,3	71	0,43	13	17,6
1950	8	38,8	89	0,51	18	20,8
	10	39,9	89	0,49	17	20,0
	12	40,9	90	0,47	16	19,2

REKO 14 - Tiw 70°C / Tuw 60°C						
Qv	Tia	Tua	Δpa	G w	Δ p w	PT
[m <sup>3</sup> / h]	[°C]	[°C]	[Pa]	[l/s]	[Pa]	[kW]
1000	8	45,0	36	0,31	20	12,8
	10	45,9	36	0,30	19	12,4
	12	46,9	37	0,29	18	11,9
1200	8	43,1	49	0,36	26	14,6
	10	44,1	49	0,34	24	14,1
	12	45,1	50	0,33	22	13,5
1400	8	41,5	64	0,40	31	16,3
	10	42,5	64	0,38	29	15,7
	12	43,6	64	0,37	27	15,1
1550	8	40,4	76	0,43	35	17,4
	10	41,5	76	0,41	33	16,8
	12	42,5	77	0,39	31	16,1
REKO 25 - Tiw 70°C / Tuw 60°C						
Qv	Tia	Tua	Δpa	G w	Δ p w	PT
[m <sup>3</sup> / h]	[°C]	[°C]	[Pa]	[l/s]	[Pa]	[kW]
1200	8	49,4	16	0,42	7	17,2
	10	50,2	16	0,41	7	16,6
	12	51,1	17	0,39	6	16,0
1700	8	46,1	29	0,55	12	22,5
	10	47,1	30	0,53	11	21,7
	12	48,0	30	0,51	11	20,8
2100	8	44,0	42	0,64	16	26,2
	10	45,0	42	0,62	15	25,3
	12	46,0	42	0,59	14	24,3
2500	8	42,2	56	0,73	20	29,7
	10	43,2	56	0,70	19	28,6
	12	44,2	57	0,67	17	27,5

## 5 AVAILABLE OPTIONS

### 5.1 BAP - HEATING WATER COIL

REKO 30 - T <sub>iw</sub> 70°C / T <sub>uw</sub> 60°C						
Q <sub>v</sub>	T <sub>ia</sub>	T <sub>ua</sub>	Δ p <sub>a</sub>	G w	Δ p <sub>w</sub>	PT
[m <sup>3</sup> /h]	[°C]	[°C]	[Pa]	[l/s]	[Pa]	[kW]
2000	8	44,5	39	0,62	15	25,3
	10	45,5	39	0,60	14	24,4
	12	46,4	39	0,57	13	23,5
2600	8	41,8	60	0,74	21	30,5
	10	42,8	60	0,72	20	29,4
	12	43,9	60	0,69	18	28,2
2900	8	40,7	72	0,80	24	32,8
	10	41,7	72	0,77	22	31,6
	12	42,8	73	0,74	21	30,4
3200	8	39,6	85	0,86	27	35,1
	10	40,7	85	0,83	26	33,8
	12	41,8	86	0,79	24	32,5

REKO 40 - T <sub>iw</sub> 70°C / T <sub>uw</sub> 60°C						
Q <sub>v</sub>	T <sub>ia</sub>	T <sub>ua</sub>	Δ p <sub>a</sub>	G w	Δ p <sub>w</sub>	PT
[m <sup>3</sup> /h]	[°C]	[°C]	[Pa]	[l/s]	[Pa]	[kW]
3200	8	42,3	60	0,93	37	38,0
	10	43,3	61	0,90	35	36,7
	12	44,3	61	0,86	33	35,3
3600	8	41,1	73	1,01	43	41,2
	10	42,1	74	0,97	40	39,7
	12	43,1	74	0,93	38	38,2
3900	8	40,2	84	1,06	48	43,5
	10	41,3	85	1,02	45	41,9
	12	42,3	85	0,99	42	40,3
4200	8	39,4	96	1,12	52	45,7
	10	40,5	96	1,08	49	44,0
	12	41,6	97	1,04	46	42,4

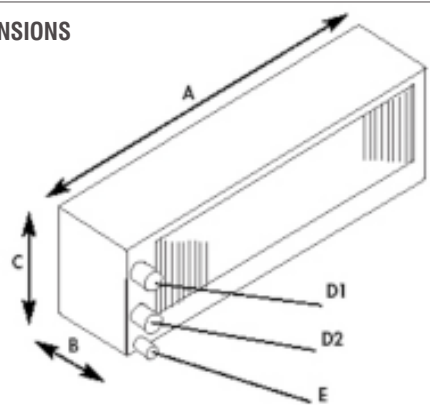
### 5.2 SAF - POST COOLING WATER COIL

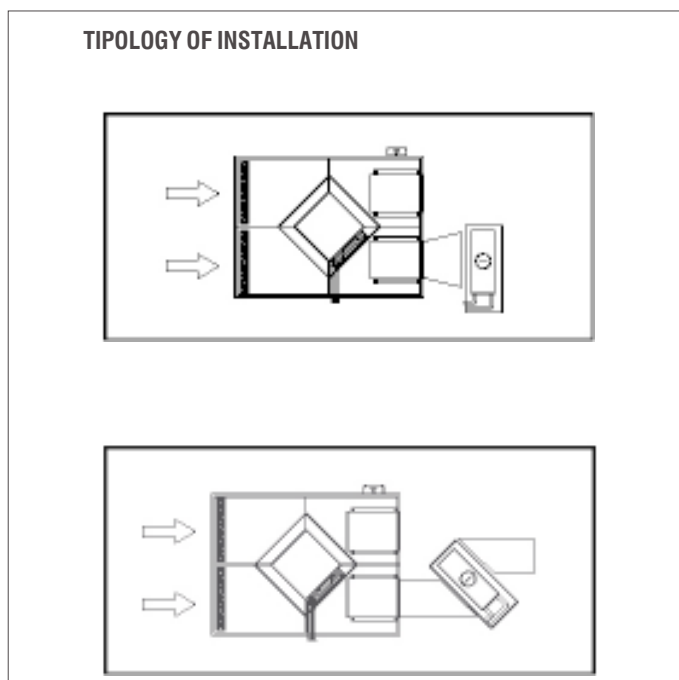
#### PERFORMANCES

SAF		SAF10	SAF14	SAF19	SAF25	SAF30	SAF40
Air flow	m <sup>3</sup> /h	1000	1400	1900	2500	3200	4000
Air pressure drop	Pa	20	32	38	42	49	98
Cooling capacity	kW	8,3	10,9	14,4	18,8	23,1	26,9
Outlet air temperature	°C	13,4	14,4	14,7	14,8	15,2	16,0
Water flow	l/h	1430	1860	2460	3230	3960	4600
Water side pressure drop	KPa	28,0	44,5	58,0	71,0	51,0	68,0

Reference conditions:

Water temperature 7-12°C, air temperature 29°C B.S., umidità relativa 50%, nominal air capacity.

DIMENSIONS								
								
		10	14	19	25	30	40	
A	mm	1000	1000	1100	1340	1340	1340	
B	mm	200	200	200	200	200	200	
C	mm	295	295	322	322	372	372	
D1 SAF	G	3/4"	3/4"	3/4"	3/4"	1	1	
D2 SAF	G	3/4"	3/4"	3/4"	3/4"	1	1	
D1 SED	SAE	3/8"	3/8"	3/8"	1/2"	1/2"	1/2"	
D2 SED	SAE	5/8"	5/8"	5/8"	3/4"	3/4"	3/4"	
E	mm	22	22	22	22	22	22	



## 5 AVAILABLE OPTIONS

### 5.2 SAF - POST COOLING WATER COIL

The thermal yield of these units in function of the various external conditions is given in the following table.

<b>Tiw</b>	Inlet water temperature
<b>Tuw</b>	Outlet water temperature
<b>Qv</b>	Air flow
<b>Tia</b>	Inlet air temperature
<b>PT</b>	Heating capacity
<b>PF</b>	Cooling capacity

### HEATING MODE PERFORMANCES

Tiw 70°C - Tuw 60 °C				
Tia		8°C	10°C	12°C
SAF	Qv	PT	PT	PT
	m <sup>3</sup> /h	kW	kW	kW
SAF 10	1000	16,1	15,6	15,0
	900	14,7	14,2	13,7
	800	13,3	12,8	12,4
SAF 14	1400	21,4	20,6	19,9
	1300	20,1	19,4	18,7
	850	14,0	13,5	13,1
SAF 19	1900	28,5	27,5	26,5
	1500	23,5	22,6	21,8
	1000	16,6	16,0	15,4
SAF 25	2500	37,1	35,8	34,5
	1900	29,7	28,6	27,6
	1100	18,5	17,9	17,3
SAF 30	3200	46,4	44,8	43,2
	2700	40,6	39,1	37,7
	1900	30,3	29,3	28,2
SAF 40	4000	55,1	53,2	51,2
	3000	44,1	42,6	41,0

### COOLING MODE PERFORMANCES

Tiw / Tuw		5/10 °C			7/12°C			9 / 14 °C		
Tia. / UR		28°C/50%	30°C/50%	32°C/50%	28°C/50%	30°C/50%	32°C/50%	28°C/50%	30°C/50%	32°C/50%
SAF	Qv	PF	PF	PF	PF	PF	PF	PF	PF	PF
	m <sup>3</sup> /h	kW	kW	kW	kW	kW	kW	kW	kW	kW
SAF 10	1000	8,7	10,0	11,3	7,7	9,0	10,4	6,6	8,0	9,4
	900	8,0	9,2	10,4	7,1	8,3	9,5	6,1	7,3	8,6
	800	7,2	8,3	9,4	6,4	7,5	8,6	5,5	6,6	7,8
SAF 14	1400	11,3	13,1	14,9	9,9	11,8	13,7	8,5	10,3	12,3
	1300	10,7	12,4	14,1	9,4	11,0	12,9	8,0	9,8	11,6
	850	7,6	8,7	9,9	6,7	7,9	9,1	5,8	7,0	8,2
SAF 19	1900	15,0	17,4	19,9	13,2	15,6	18,1	11,2	13,7	16,3
	1500	12,5	14,5	16,4	11,0	13,0	15,0	9,4	11,5	13,5
	1000	9,0	10,4	11,7	8,0	9,4	10,7	6,9	8,3	9,7
SAF 25	2500	19,7	22,8	26,0	17,2	20,5	23,7	14,6	17,9	21,3
	1900	15,9	18,4	20,9	14,1	16,6	19,1	12,0	14,6	17,2
	1100	10,2	11,7	13,2	9,0	10,6	12,1	7,8	9,4	11,0
SAF 30	3200	24,1	28,1	32,2	21,1	25,2	29,3	17,8	22,0	26,2
	2700	21,3	24,7	28,2	18,7	22,2	25,8	15,8	19,4	23,1
	1900	16,2	18,7	21,3	14,3	16,9	19,5	12,2	14,9	17,5
SAF 40	4000	28,2	33,0	38,0	24,5	29,4	34,5	20,4	25,5	30,7
	3000	23,0	26,8	30,6	20,1	24,0	27,9	17,0	21,0	25,0

## 5 AVAILABLE OPTIONS

### 5.3 REP - RE-HEATING ELECTRIC HEATER

The REP element is supplied if post-heating is required and the use of water is not possible.

These elements have reduced thickness reducing air flow resistance to a minimum .

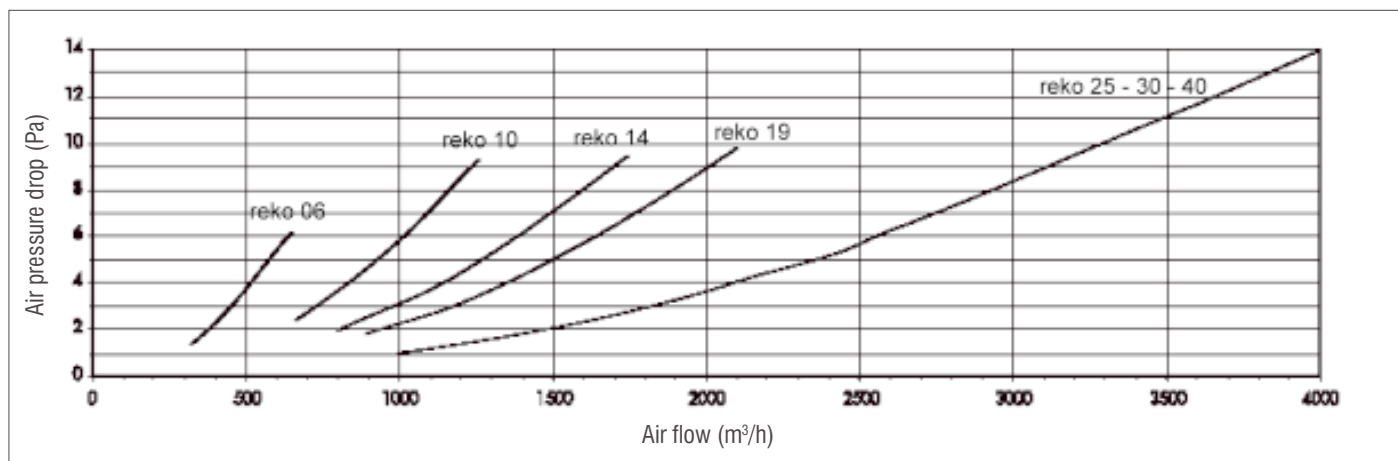
The electrical elements heating section, which is supplied complete with safety thermostats and one control relay , requires a single-phase 230/1/50 power supply for the size 06 and a three-phase 400/3/50 power supply for the sizes 10-14-19-25-30-40.

Power line protection must be carried out by the installer.

Code		REP06	REP10	REP14	REP19	REP25	REP30	REP40
Electric heating section 1 step	kW	4,0	4,5	6,0	9,0	12,0	12,0	12,0
Power supply	V	230	400	400	400	400	400	400
Phases		1	3	3	3	3	3	3
Steps		1	1	1	1	1	1	1
Rated current absorption	A	17,4	6,5	8,7	13,0	17,3	17,3	17,3
Outlet air temperature*	°C	27,8	21,3	20,7	22,0	22,2	19,5	17,0
Weight	kg	2	3	3	3	3	3	3

Reference conditions:

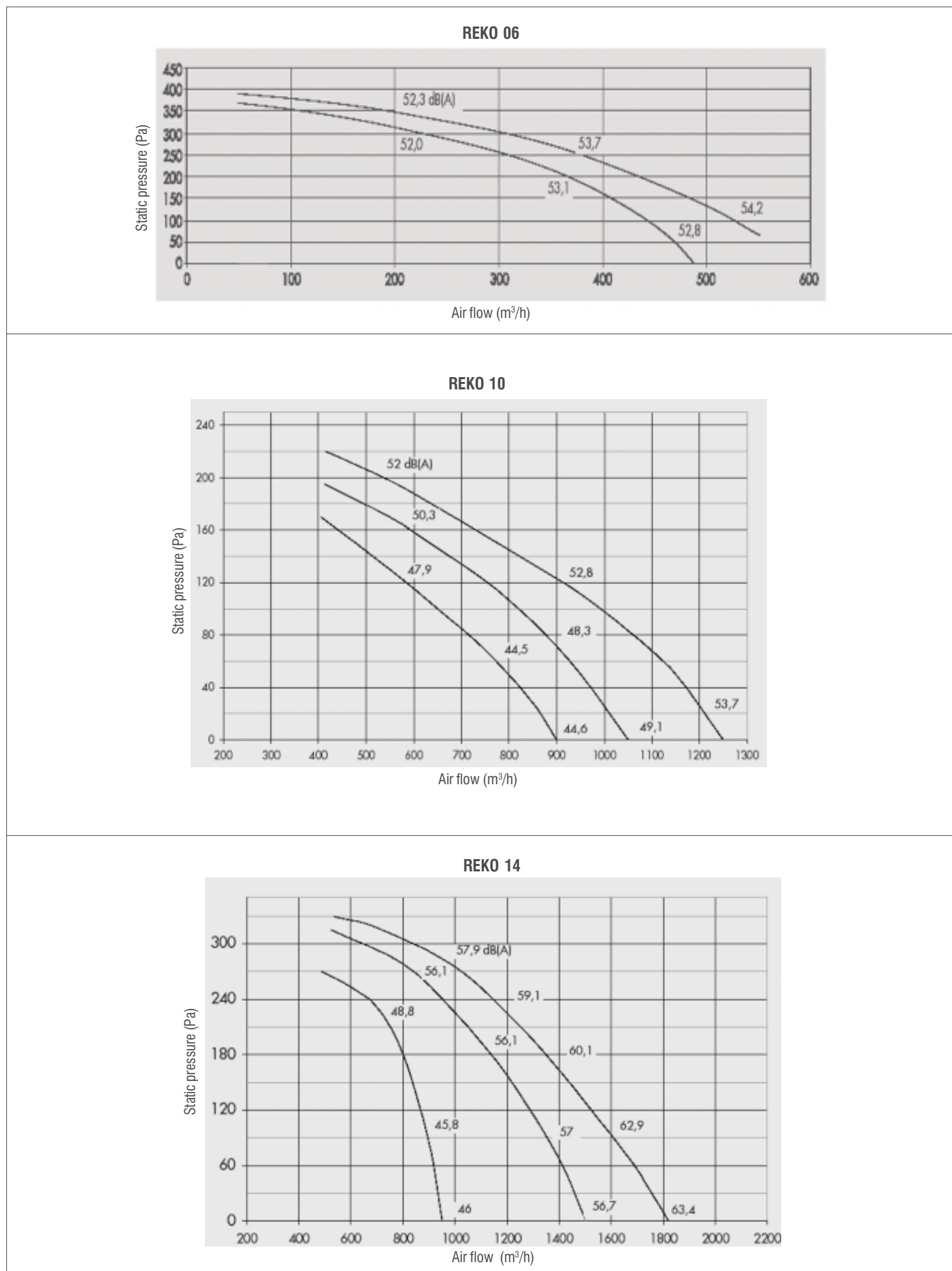
\*Air temperature 8°C, nominal air capacity





## 6 VENTILATION FEATURES

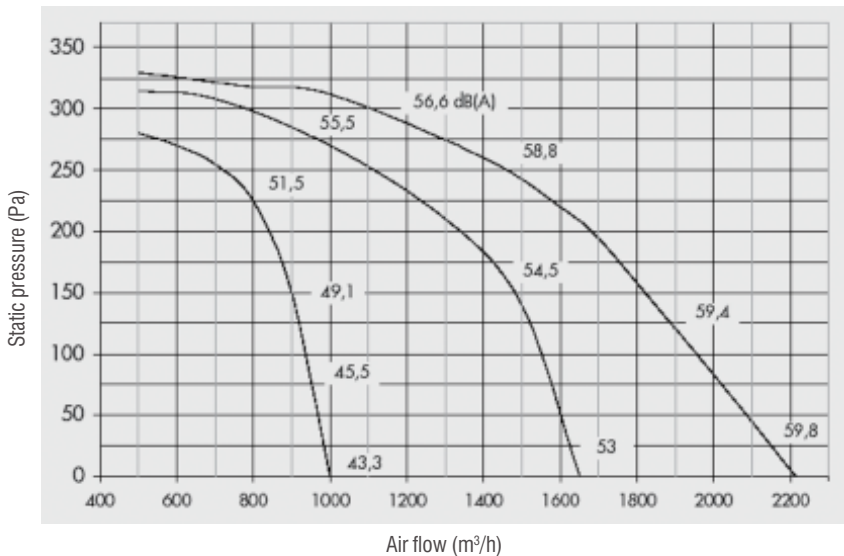
The following diagrams show the available static pressure as a function of the air flow.



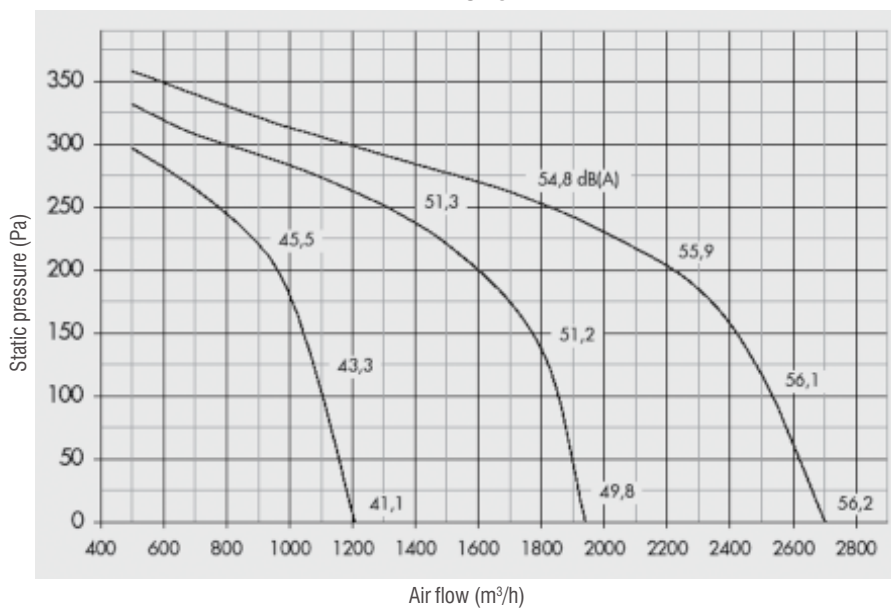
## 6 VENTILATION FEATURES

The following diagrams show the available static pressure as a function of the air flow.

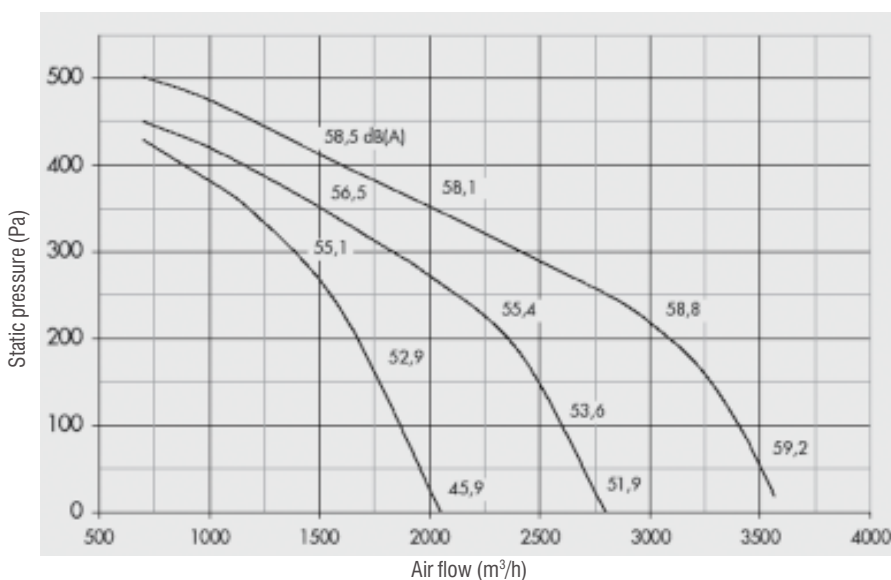
REKO 19



REKO 25

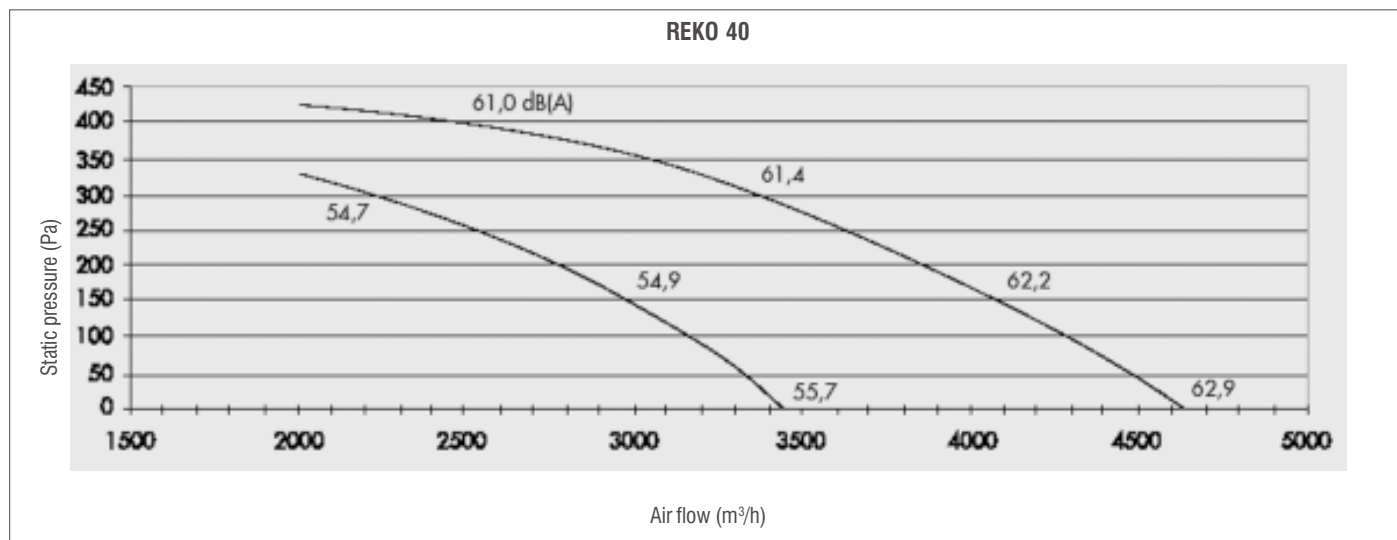


REKO 30



## 6 VENTILATION FEATURES

The following diagrams show the available static pressure as a function of the air flow.



## 7 HEAT RECOVERY CAPACITY

REKO 06						
Air flow	Room air	Fresh air		Treated air	Efficiency	Heating capacity
m <sup>3</sup> /h	°C	°C	UR%	°C	%	(kW)
400	20	-10	80	8,0	60,1	2,7
	20	-5	80	9,7	58,9	2,2
	20	0	70	11,6	57,8	1,7
	20	5	60	13,5	56,7	1,2
	20	10	50	15,6	55,7	0,8
	26	32	50	29,0	49,7	0,4
	26	34	50	30,1	49,3	0,5
500	20	-10	80	7,4	57,9	3,2
	20	-5	80	9,2	56,8	2,6
	20	0	70	11,1	55,7	2,0
	20	5	60	13,2	54,7	1,4
	20	10	50	15,4	53,7	0,9
	26	32	50	29,1	47,9	0,5
	26	34	50	30,2	47,5	0,6
600	20	-10	80	6,9	56,2	3,2
	20	-5	80	8,7	54,7	2,5
	20	0	70	10,1	50,5	1,9
	20	5	60	12,2	48,0	1,4
	20	10	50	14,8	48,0	0,9
	26	32	50	29,1	48,0	0,5
	26	34	50	30,2	48,0	0,7

REKO 10							
Air flow	Room air	Fresh air		Treated air	Efficiency	Heating capacity	
m <sup>3</sup> /h	°C	°C	UR%	°C	%	(kW)	
800	20	-10	80	7,1	57,4	5,1	
	20	-5	80	9,1	56,3	4,1	
	20	0	70	11,0	55,2	3,2	
	20	5	60	13,1	54,2	2,3	
	20	10	50	15,3	53,2	1,5	
	26	32	50	29,2	47,5	0,7	
	26	34	50	30,2	47,1	0,9	
	900	20	-10	80	6,8	55,9	5,6
		20	-5	80	8,7	54,8	4,5
20		0	70	10,8	53,8	3,5	
20		5	60	12,9	52,8	2,5	
20		10	50	15,2	51,9	1,6	
26		32	50	29,2	46,3	0,8	
26		34	50	30,3	45,9	1,0	
1000		20	-10	80	6,3	54,4	6,1
		20	-5	80	8,3	53,4	4,9
	20	0	70	10,5	52,4	3,8	
	20	5	60	12,7	51,4	2,7	
	20	10	50	15,0	50,5	1,7	
	26	32	50	29,3	45,0	0,9	
	26	34	50	30,4	44,6	1,1	
	1100	20	-10	80	5,9	53,0	6,5
		20	-5	80	8,0	51,9	5,2
20		0	70	10,2	50,9	4,0	
20		5	60	12,5	50,0	2,9	
20		10	50	14,9	49,1	1,9	
26		32	50	29,4	43,8	0,9	
26		34	50	30,5	43,4	1,2	

7 HEAT RECOVERY CAPACITY

REKO 14						
Air flow m <sup>3</sup> /h	Room air °C	Fresh air		Treated air °C	Efficiency %	Heating capacity (kW)
		°C	UR%			
1000	20	-10	80	7,1	57,1	6,4
	20	-5	80	9,0	56,0	5,1
	20	0	70	11,0	55,0	3,9
	20	5	60	13,1	53,9	2,8
	20	10	50	15,3	53,0	1,8
	26	32	50	29,2	47,3	0,9
	26	34	50	30,3	46,8	1,2
1200	20	-10	80	6,5	55,1	7,4
	20	-5	80	8,5	54,1	5,9
	20	0	70	10,6	53,0	4,6
	20	5	60	12,8	52,0	3,3
	20	10	50	15,1	51,1	2,1
	26	32	50	29,0	49,6	1,1
	26	34	50	30,1	49,2	1,5
1400	20	-10	80	5,9	53,1	8,3
	20	-5	80	8,0	52,1	6,7
	20	0	70	10,2	51,1	5,1
	20	5	60	14,9	49,2	2,4
	20	10	50	14,9	49,2	2,4
	26	32	50	29,4	43,9	1,2
	26	34	50	30,5	43,5	1,5
1600	20	-10	80	5,3	51,1	9,1
	20	-5	80	7,5	50,1	7,3
	20	0	70	9,8	49,2	5,6
	20	5	60	12,2	48,3	4,1
	20	10	50	14,7	47,4	2,6
	26	32	50	29,5	42,3	1,3
	26	34	50	30,6	41,9	1,7

REKO 19						
Air flow m <sup>3</sup> /h	Room air °C	Fresh air		Treated air °C	Efficiency %	Heating capacity (kW)
		°C	UR%			
1100	20	-10	80	7,9	59,7	7,3
	20	-5	80	9,6	58,6	5,9
	20	0	70	11,5	57,5	4,5
	20	5	60	13,5	56,4	3,3
	20	10	50	15,5	55,4	2,1
	26	32	50	29,0	49,4	1,0
	26	34	50	30,1	49,0	1,3
1400	20	-10	80	7,1	57,2	8,9
	20	-5	80	9,0	56,0	7,2
	20	0	70	11,0	55,0	5,5
	20	5	60	13,1	54,0	4,0
	20	10	50	15,3	53,0	2,6
	26	32	50	29,2	47,3	1,3
	26	34	50	30,3	46,9	1,6
1900	20	-10	80	5,9	52,9	11,2
	20	-5	80	8,0	51,8	8,0
	20	0	70	10,2	50,9	6,9
	20	5	60	12,5	49,9	5,0
	20	10	50	14,9	49,0	3,2
	26	32	50	29,4	43,7	1,8
	26	34	50	30,5	43,3	2,1
2100	20	-10	80	5,3	51,2	12,0
	20	-5	80	7,5	50,2	9,6
	20	0	70	9,8	49,2	7,4
	20	5	60	12,2	48,3	5,4
	20	10	50	14,7	47,4	3,4
	26	32	50	29,5	42,3	1,7
	26	34	50	30,6	41,9	2,2

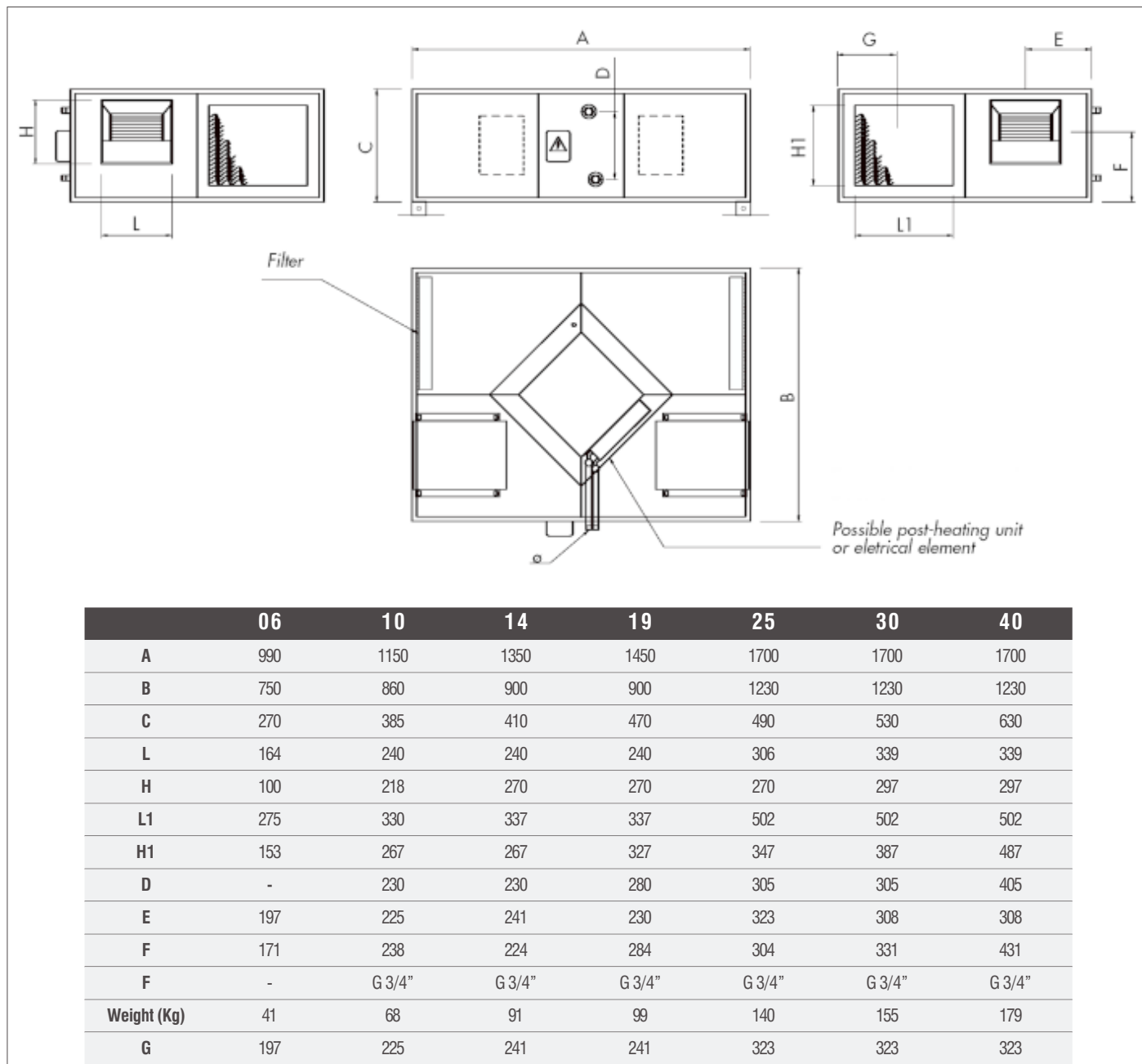
REKO 25						
Air flow m <sup>3</sup> /h	Room air °C	Fresh air		Treated air °C	Efficiency %	Heating capacity (kW)
		°C	UR%			
1200	20	-10	80	9,5	65,0	8,7
	20	-5	80	10,9	63,7	7,0
	20	0	70	12,5	62,5	5,4
	20	5	60	14,2	61,3	3,9
	20	10	50	16,0	60,2	2,5
	26	32	50	28,8	53,7	1,2
	26	34	50	29,7	53,3	1,6
1700	20	-10	80	8,8	62,6	11,9
	20	-5	80	10,3	61,4	9,5
	20	0	70	12,0	60,2	7,3
	20	5	60	13,9	59,1	5,3
	20	10	50	15,8	58,0	3,4
	26	32	50	28,9	51,8	1,7
	26	34	50	29,9	51,3	2,2
2100	20	-10	80	8,2	60,7	14,2
	20	-5	80	9,9	59,5	11,4
	20	0	70	11,7	58,4	8,8
	20	5	60	13,6	57,3	6,3
	20	10	50	15,6	56,2	4,1
	26	32	50	29,0	50,2	2,0
	26	34	50	30,0	49,7	2,6
2500	20	-10	80	7,6	58,7	16,4
	20	-5	80	9,4	57,6	13,2
	20	0	70	11,3	56,5	10,1
	20	5	60	13,3	55,5	7,3
	20	10	50	15,4	54,4	4,7
	26	32	50	29,1	48,6	2,3
	26	34	50	30,1	48,2	3,0

REKO 30						
Air flow m <sup>3</sup> /h	Room air °C	Fresh air		Treated air °C	Efficiency %	Heating capacity (kW)
		°C	UR%			
2000	20	-10	80	8,9	63,1	14,1
	20	-5	80	10,5	61,8	11,3
	20	0	70	12,1	60,7	8,7
	20	5	60	13,9	59,5	6,3
	20	10	50	15,8	58,5	4,0
	26	32	50	28,9	52,2	2,0
	26	34	50	29,9	51,7	2,6
2600	20	-10	80	8,0	60,1	17,5
	20	-5	80	9,7	58,9	14,0
	20	0	70	11,6	57,8	10,8
	20	5	60	13,5	56,7	7,8
	20	10	50	15,6	55,7	5,0
	26	32	50	29,0	49,7	2,5
	26	34	50	30,1	49,3	3,2
2900	20	-10	80	7,6	58,6	19,0
	20	-5	80	9,4	57,4	15,2
	20	0	70	11,3	56,4	11,7
	20	5	60	13,3	55,3	8,5
	20	10	50	15,4	54,3	5,4
	26	32	50	28,9	51,5	2,8
	26	34	50	29,9	51,0	3,7
3200	20	-10	80	7,1	57,1	20,4
	20	-5	80	9,0	56,0	16,4
	20	0	70	11,0	55,0	12,6
	20	5	60	13,1	54,0	9,1
	20	10	50	15,3	53,0	5,9
	26	32	50	29,2	47,3	2,9
	26	34	50	30,3	46,8	3,8

## 7 HEAT RECOVERY CAPACITY

REKO 40						
Air flow	Room air	Fresh air		Treated air	Efficiency	Heating capacity
m <sup>3</sup> / h	°C	°C	UR%	°C	%	(kW)
3200	20	-10	80	8,0	59,9	21,4
	20	-5	80	9,7	58,7	17,2
	20	0	70	11,5	57,6	13,2
	20	5	60	13,5	56,5	9,5
	20	10	50	15,6	55,5	6,1
	26	32	50	29,0	49,5	3,0
	26	34	50	30,1	49,1	3,9
3900	20	-10	80	7,1	57,1	24,9
	20	-5	80	9,0	56,0	19,9
	20	0	70	11,0	54,9	15,4
	20	5	60	13,1	53,9	11,1
	20	10	50	15,3	52,9	7,1
	26	32	50	29,2	47,2	3,5
	26	34	50	30,3	46,8	4,6
4200	20	-10	80	6,8	55,9	26,2
	20	-5	80	8,7	54,8	21,0
	20	0	70	10,8	53,8	16,2
	20	5	60	12,9	52,8	11,7
	20	10	50	15,2	51,8	7,5
	26	32	50	29,2	46,2	3,7
	26	34	50	30,3	45,8	4,8
4500	20	-10	80	6,4	54,7	27,5
	20	-5	80	8,4	53,6	22,0
	20	0	70	10,5	52,6	17,0
	20	5	60	12,7	51,6	12,3
	20	10	50	15,1	50,7	7,9
	26	32	50	29,3	45,2	3,9
	26	34	50	30,4	44,8	5,1

8 OVERALL DIMENSIONS



## 9 WIRING DIAGRAMS

BEFORE COMMENCING ANY OPERATION, INSURE THAT THE GENERAL POWER SUPPLY HAS BEEN ISOLATED.

Qualified personnel according to the supplied schemes must carry out the electrical connections at the control panel.

Insure that the voltage and the frequency shown on the technical plate correspond to the connecting power supply.

Follow the connection of the unit and its accessories using adequate cabling for the power used, and respecting the country regulations.

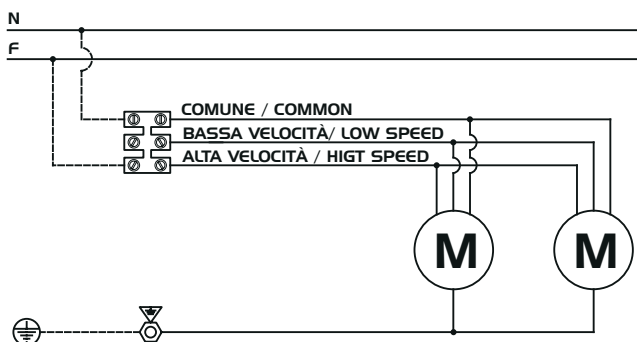
The dimensions of the cabling must be sufficient to support a voltage drop in start up phase inferior to 3% of the nominal.

For the general power supply of the unit, and its accessories, the use of adapters, multiple plugs and extension leads is to be avoided.

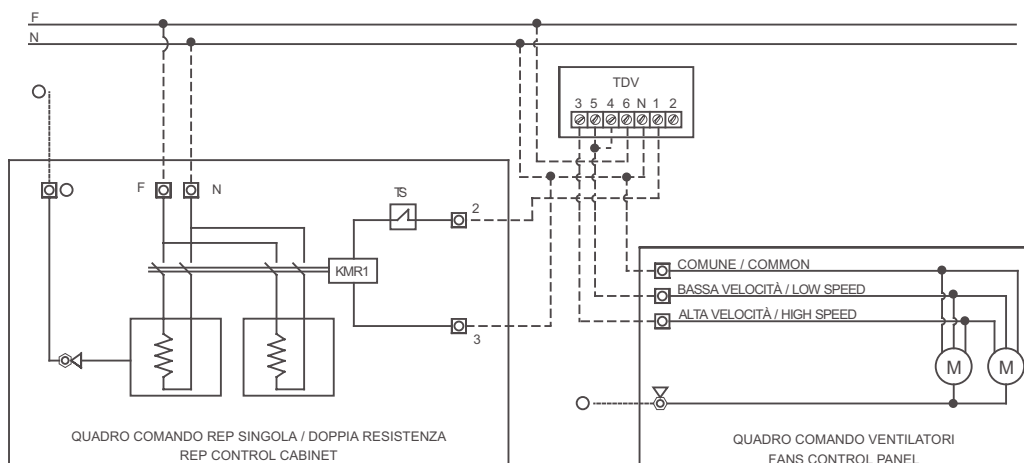
It is the installer's responsibility to provide for installation as close as possible to the power disconnecting switch, which must have a contact gap of at least 3 mm, and to furnish everything necessary to protect the electrical parts.

Connect the unit to an efficient power point, using the correct screws as supplied with the unit.

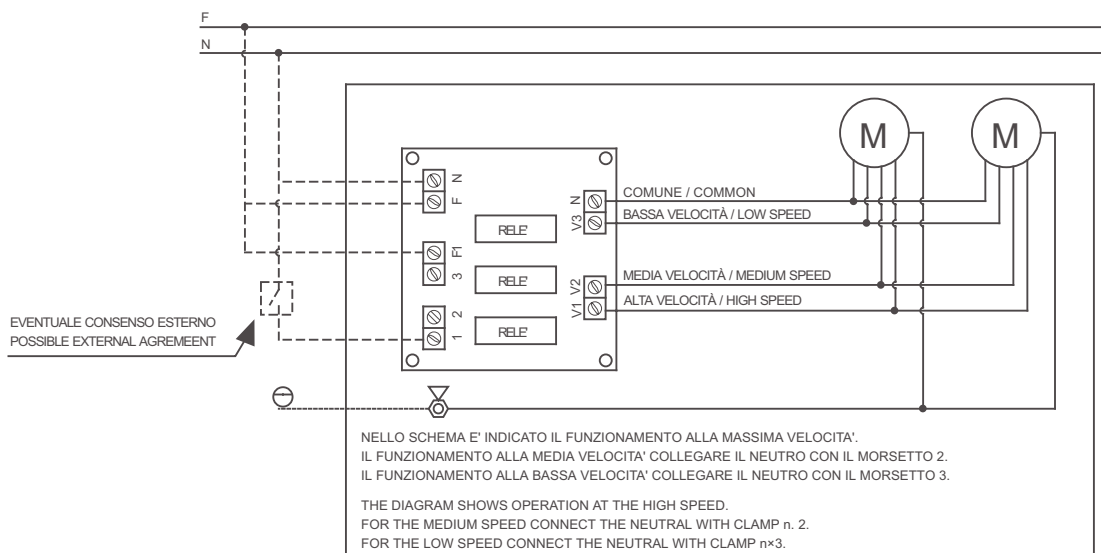
### DIRECT WIRING REKO 06 AT CONSTANT SPEED



### REKO 06 WITH REP AND TDV

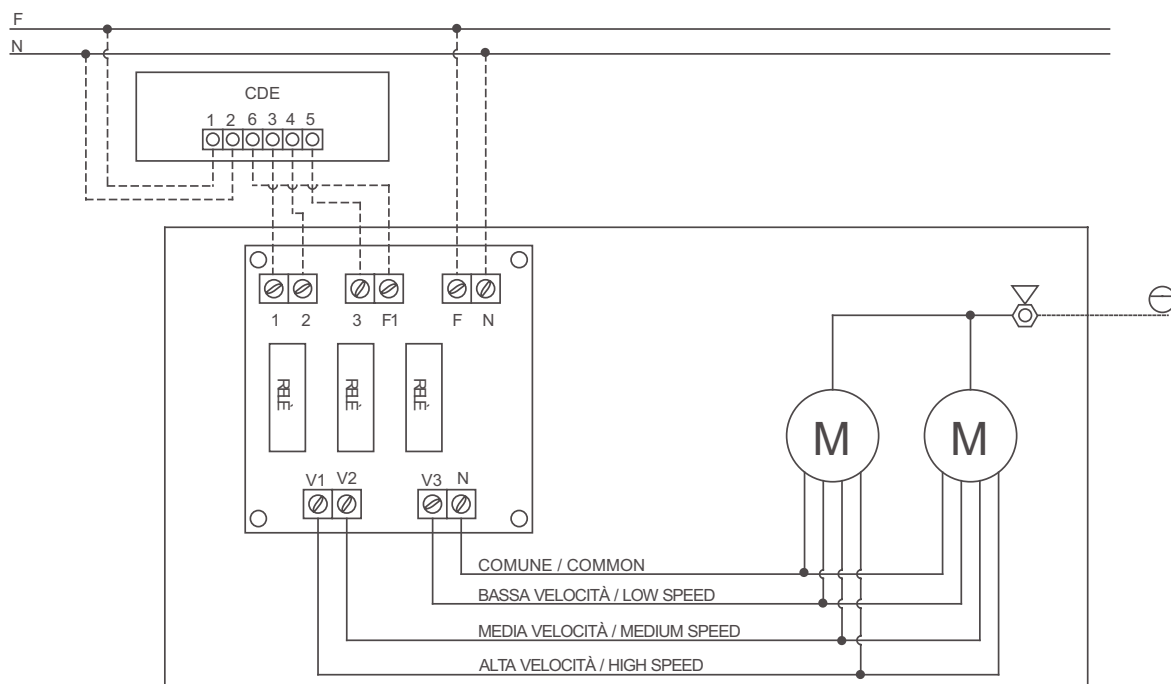


### DIRECT WIRING REKO 10 AT COSTANT SPEED

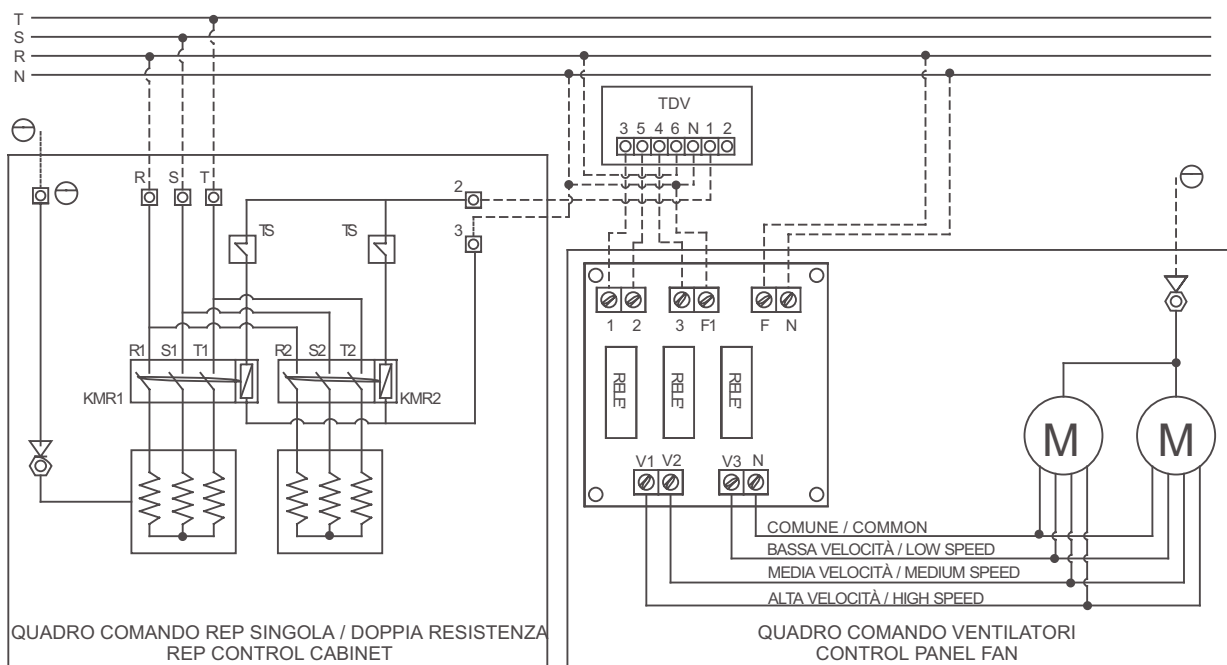


9 WIRING DIAGRAMS

REKO 10 WITH CDE



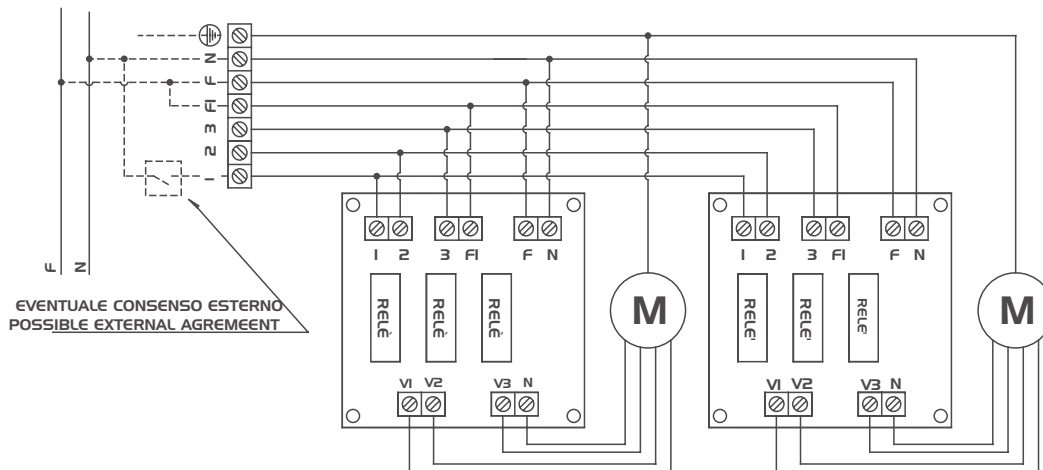
REKO 10 WITH REP AND TDV



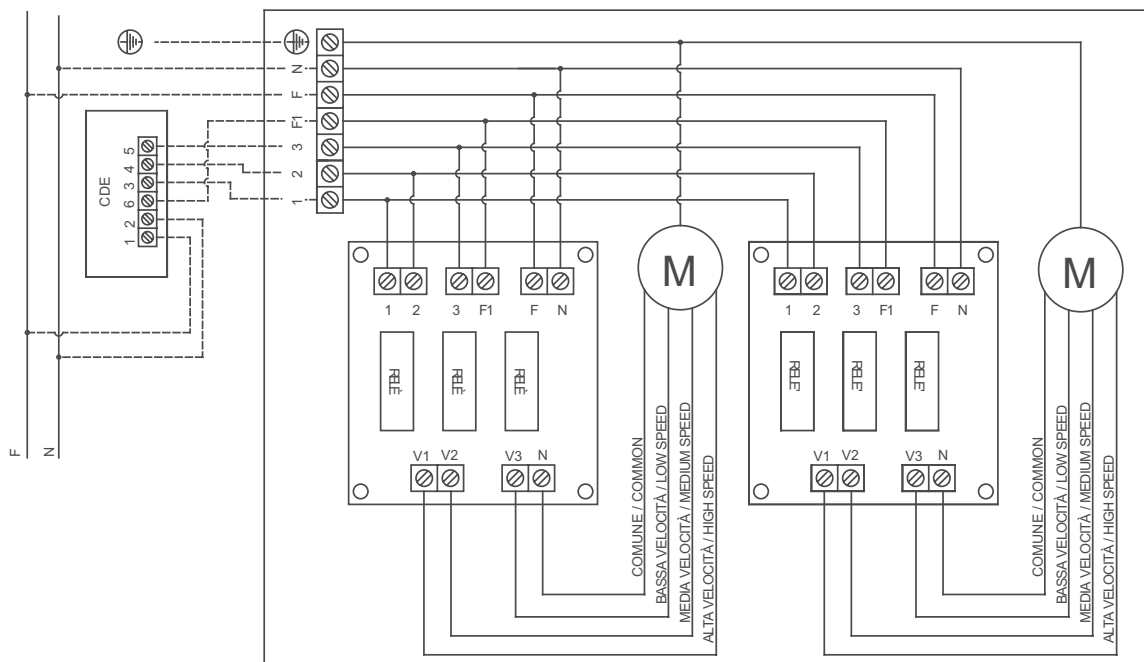


## 9 WIRING DIAGRAMS

### DIRECT WIRING REKO 14 - 30 AT CONSTANT SPEED

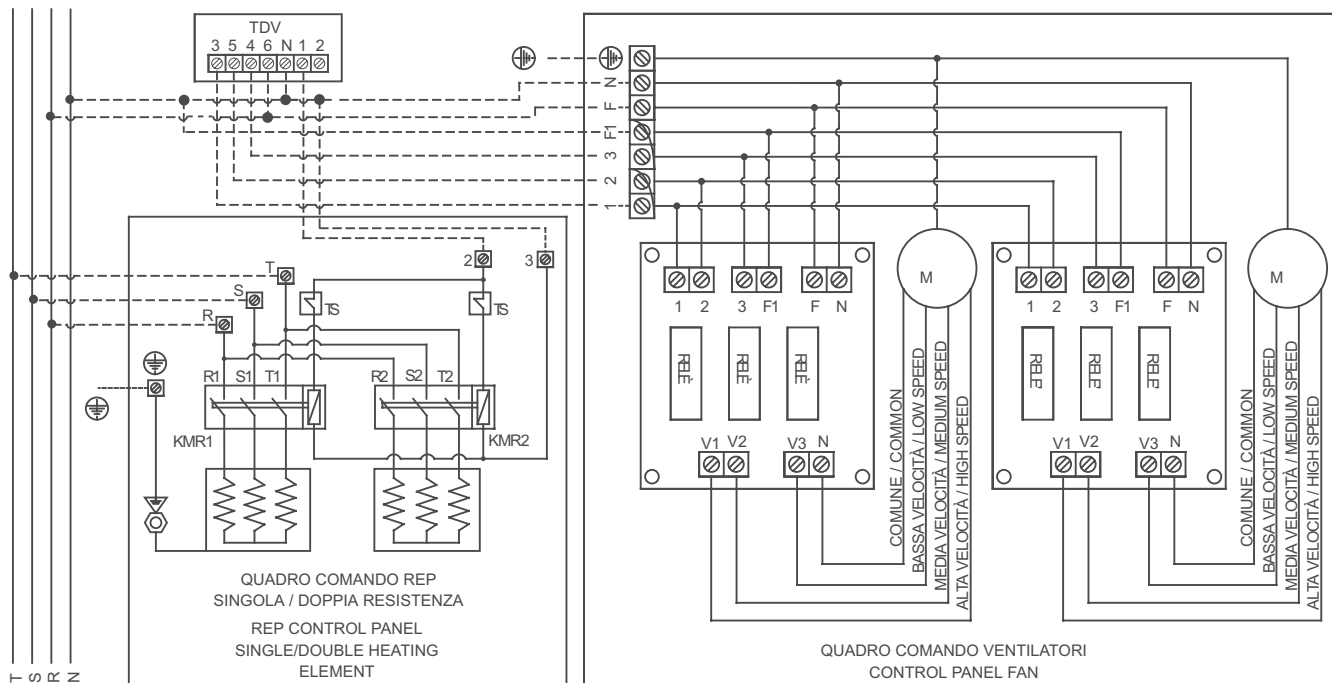


### REKO 14 - 19 WITH CDE

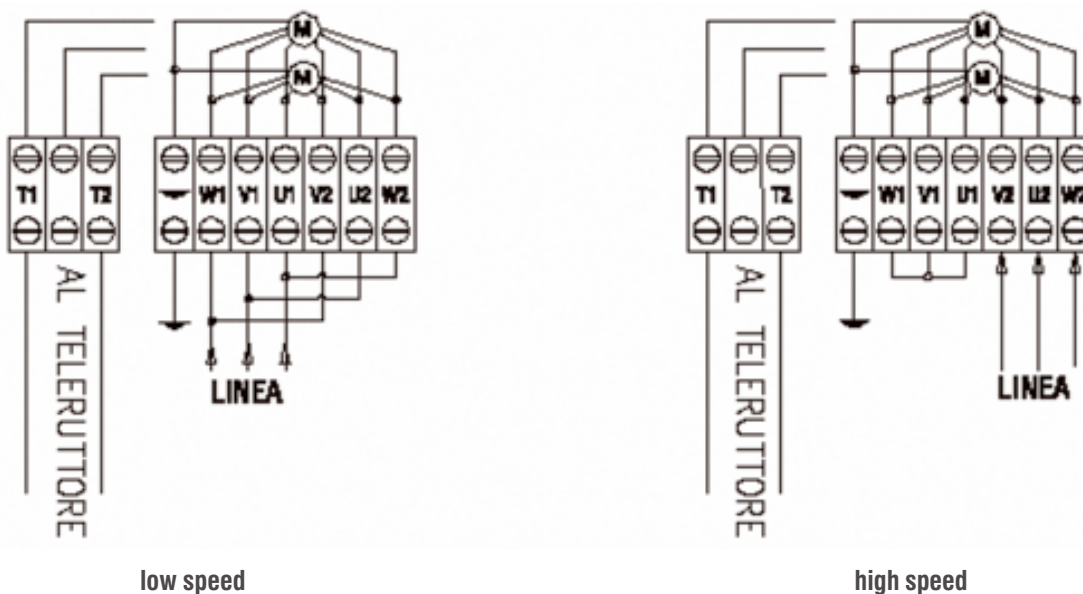


9 WIRING DIAGRAMS

REKO 14 - 30 WITH REP AND TDV



DIRECT WIRING REKO 40







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