

costruzioni elettroniche telesine

# EVO RLX



User Manual and instructions  
for programming



IDRO  
FIREPLACES



SOLAR  
THERMIC

Manual EVO RLX  
Code: 1627  
Item: 301RLX

COELTE.NET

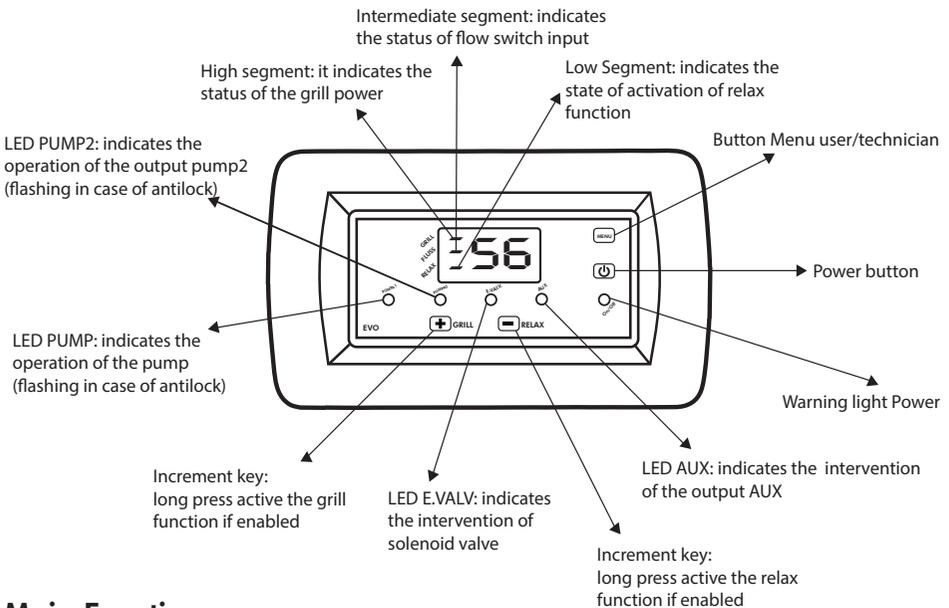
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# EVO RLX

The control unit **EVO RLX** comes up with simple design, and has a clear and intuitive controls. The control unit has a button **RELAX**, that allows to exclude the heating to promote the availability of sanitary hot water. **EVO RLX** has several operation programs to make the product applicable to different system types. The control unit consists of 2 inputs and 4 relay output:

	TERMINAL	DESCRIPTION
INPUT	S1	INPUT SONDE
	S2	INPUT SONDE OR SENSORS
	LINEA	INPUT 220VOLT
OUTPUT	CIRC	OUTPUT 220VOLT
	E.VALVOL	OUTPUT 220VOLT
	AUX	RELAY OUTPUT WITH CLEAN CONTACTS
	AUX2/CIRC2	OUTPUT 220 VOLT

Activation lights and functions:



## Main Functions

### Relax function

Relax function allows to momentarily turn off the heating by the pressure of the RELAX key, in this way it is possible to use all the hot water for the health. To activate the heating just press RELAX again otherwise the function will remain active until the water temperature is between the temperature values defined by the **TAC** e **TAF** parameters. The function is signaled by the turn on of the display segment RELAX.

## Standby Function

The Standby function is activated by pressing the **Power** button, it has the effect of turning off outputs led and turning on **Power** led. To reactivate the control panel, press the **Power** button again. If you feed the fire without having rekindled the control unit, this will automatically activate when reaching the safety temperature (**TS!**). Standby status is maintained even after a power outage.

**⚠ IMPORTANT:** In the technical menu there are 4 parameters available (**PO1**, **EV**, **RU1**, **RU2**) by means of which it defines the state of **ON / OFF** of each relay in the phase of **Standby**.

## Antilock circulator function

In the case in which the circulators do not share over the days set in parameter **DRB** (7 days by default) they are activated for the seconds set in **SAB** parameter. The function is also active in standby. If you experience a power failure, whereby the unit is restarted, an anti-lock loop is done because it is not possible to know how long it had no power. When you enable this feature the **PUMP** led will light up intermittently.

## Circulator pump test function

simultaneously pressing the **+** and **-** you make a circulators pump test, they will remain on for the time **SAB**.

## Common functions

In any program where you see this symbol  you can view the temperature of the second sonde by pressing the **-** (minus) for about 5 seconds.

## User menu

To access the user programming, just press the **MENU** button.

The parameters displayed in the user menu can be different for each program, for which the details are shown in each of the following system boards, at the voice parameters.



The **CO.EL.TE.** reserves the right to make changes both software and hardware to the control unit without the need for prior formal acceptance.

## TECHNICAL MENU PROGRAMMING

**⚠ CAUTION:** The access and modification of the following parameters is intended only to qualified personnel. To access the technical menu must hold for about 5 seconds the **MENU** button.

MENU	DEFAULT	RANGE	FUNCTION
<b>TSI</b>	70	65-99	IT CHANGES THE VALUE OF SAFETY THERMOSTAT
<b>TEMI</b>	90	65-99	IT CHANGES THE VALUE OF EMERGENCY THERMOSTAT
<b>IST</b>	2	1-10	IT CHANGES THE HYSTERESIS THERMOSTATS
<b>DEL</b>	4	2-20	DIFFERENTIAL DELTA SONDES
<b>TRG</b>	4	1-6	IT CHANGES THE ANTIFREEZE THERMOSTAT
<b>TAC</b>	65	20-80	IT CHANGES THE HOT WATER THERMOSTAT (RELAX)
<b>TRF</b>	40	20-80	IT CHANGES THE COLD WATER THERMOSTAT (RELAX)
<b>DAB</b>	7	1-30	DAYS OF ANTILOCK CYCLE
<b>SAB</b>	20	0-59	SECONDS OF ANTILOCK
<b>PO1</b>	OFF		SETTING OUTPUT STATE AT TURNED OFF CONTROL UNIT
<b>OFF-EV</b>	ON		SETTING OUTPUT STATE AT TURNED OFF CONTROL UNIT
<b>OFF-RU1</b>	ON		SETTING OUTPUT STATE AT TURNED OFF CONTROL UNIT
<b>OFF-RU2</b>	OFF		SETTING OUTPUT STATE AT TURNED OFF CONTROL UNIT
<b>BEEP</b>	ON		ENABLING BUTTONS BEEP
<b>PR6</b>	<b>PR3</b>		
		<b>PR0</b>	SUITABLE FOR 2 PUMPS PLANT AND INTERNAL AS COIL
		<b>PR1</b>	SUITABLE FOR 2 PUMPS PLANT AND EXTERNAL AS EXCHANGER
		<b>PR2</b>	SUITABLE FOR 1 PUMP PLANT AND INTERNAL AS COIL
		<b>PR3</b>	SUITABLE FOR 1 PUMP PLANT AND EXTERNAL AS EXCHANGER (SAME PREVIOUS COELTOP PROGRAM)
		<b>PR4</b>	SUITABLE FOR 2 SONDES PLANT WITH BOYLER FOR SANITARY WATER
		<b>PR5</b>	SUITABLE FOR SOLAR PLANT WITH INTEGRATED FORCED CIRCULATION
		<b>PR6</b>	SUITABLE FOR PLANT WITH FAN COIL (SEE LINKS IN PLANTS TABLES)
		<b>PR7 PR8</b>	SUITABLE FOR PLANT WITH FAN COIL CONTROLLED BY AMBIENT TEMPERATURE (DETAILS IN THE TABLES SYSTEMS, REQUIRES DOUBLE SONDE)
		<b>PR9</b>	SUITABLE FOR PLANT WITH HEATING MANAGEMENT WITHDRAWAL FROM PUFFER
		<b>PR10</b>	SYSTEM THAT PROVIDES THE DUAL PLANT MANAGEMENT (SEE TABLES SYSTEMS)
		<b>PR11</b>	WATER LEVEL SENSORS+CIRC+E.VALV (THERMOSTAT AUX2 OR GRILL)
<b>OU4</b>	<b>GRL</b>	<b>GRL/TER</b>	OUTPUT DEFINITION CIRC2/GRL AT THERMOSTAT CIRC 2 OR AT GRILL (available only if PRG= 2, 3, 4,10,11)
<b>RES</b>	OFF		RESTORING CONTROL SETTINGS FACTORY/RESET. TO COMMUTE ON PRESS THE BUTTON + 5 TIMES, THEN THE MENU BUTTON. YOU GET CONFIRMATION THROUGH THE WRITTEN <b>RDY.</b>

## ⚠ ALARMS

The alarm situations that may occur are the following:

ALARM	CAUSE	VISUALIZATION
1	SONDE IN SHORT CIRCUIT	<b>RLI</b> ALTERNATING THE WRITTEN <b>SCH</b>
2	OPEN SONDE OR NOT CONNECTED	<b>RLI</b> ALTERNATING THE WRITTEN <b>SAP</b>
3	EMERGENCY ALARM	<b>RLI</b> ALTERNATING THE VALUE OF READING TEMPERATURE

Each alarm is accompanied by beep that can be turned off by pressing any key. If the alarm condition persists for more than 4 minutes, the beep is reactivated again.

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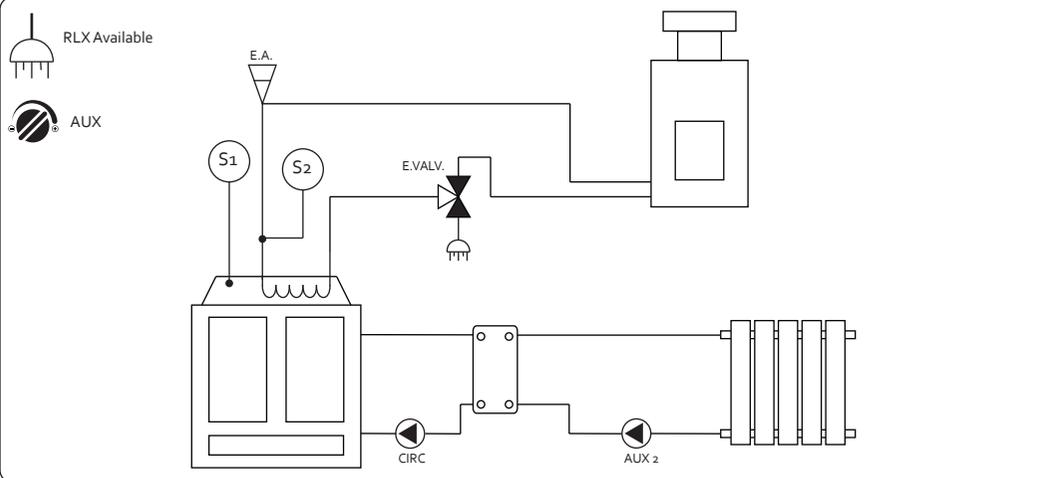
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SYSTEM WITH INTERNAL WINDING AS AND ANTICONDENSATION CIRCUIT

PROGRAM Pr0



Initial	Name	Terminals
S1	Fireplace sonde	
S2	Flow switch (FLUSS)	
CIRC	Fireplace pump	
E.VALV.	Solenoid valve A.C.S.	
AUX	Thermostat with clean contacts	
AUX 2	Heating pump	

PARAMETERS					
Display	Led	Description	Default	Range	Unit
TP1	CIRC	Chimney pump thermostat	50	20-85	°C
TEH	E.VALV.	Sanitary exchange solenoid valve thermostat	52	20-85	°C
TRU	AUX	Thermostat with clean contacts	54	20-85	°C
TP2	AUX 2	Heating pump thermostat	54	20-85	°C

PRINCIPLE OF OPERATION		
IF the condition is true, the corresponding output is activated	Logic state	Output
IF( (RLX=ON) OR (FLUSS=CLOSED) )	RISC=OFF	
IF( (RLX=OFF) AND (FLUSS=OPENED) )	RISC=ON	
IF(S1 >= TP1)		CIRC
IF(S1 >= TEH)		E.VALV.
IF(S1 >= TAU)		AUX
IF( (S1 >= TP2) AND (RISC=ON) )		AUX 2

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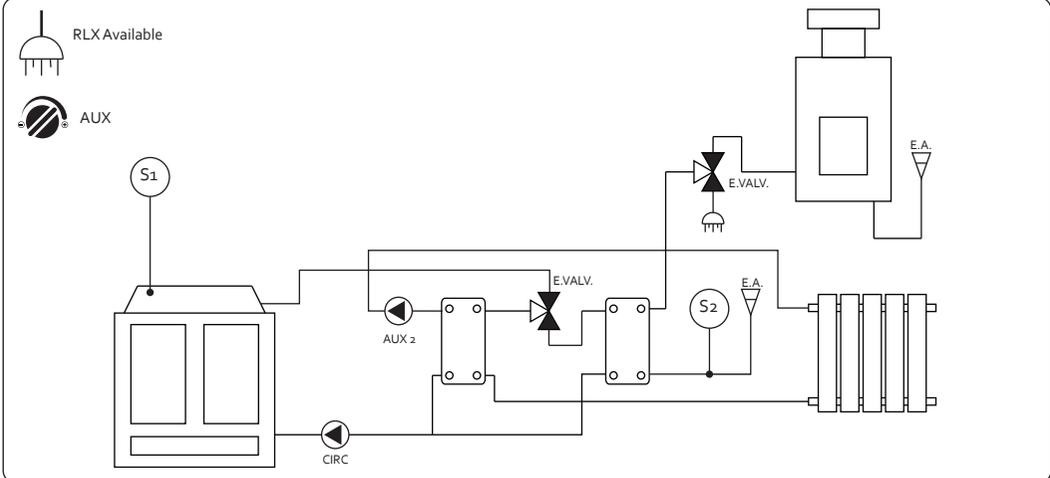
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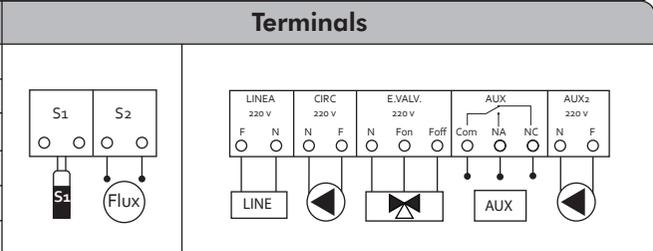
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## SYSTEM WITH EXTERNAL EXCHANGER AS WITH ANTICONDENSATION CIRCUIT AND EV OF HEATING CLOSURE

## PROGRAM Pr1



Initial	Name
S1	Fireplace sonde
S2	Flow switch (FLUSS)
CIRC	Fireplace pump
E.VALV.	Solenoid valve A.C.S.
AUX	Thermostat with clean contacts
AUX 2	Heating pump



## PARAMETERS

Display	Led	Description	Default	Range	Unit
TP 1	CIRC	Chimney pump thermostat	50	20-85	°C
TEH	E.VALV.	Sanitary exchange solenoid valve thermostat	52	20-85	°C
TRU	AUX	Auxiliary thermostat	54	20-85	°C
TP2	AUX 2	Heating pump thermostat	54	20-85	°C

## PRINCIPLE OF OPERATION

IF the condition is true, the corresponding output is activated	Logic state	Output
IF( (RLX=ON) OR (FLUSS=CLOSED) )	RISC=OFF	
IF( (RLX=OFF) AND (FLUSS=OPENED) )	RISC=ON	
IF(S1 >= TP1) OR E.VALV._active		CIRC
IF( (S1 >= TEH) AND (RISC=ON) )		E.VALV.
IF(S1 >= TAU)		AUX
IF( (S1 >= TP2) AND (E. VALV. turned off) )		AUX 2

# Manual EVO RLX

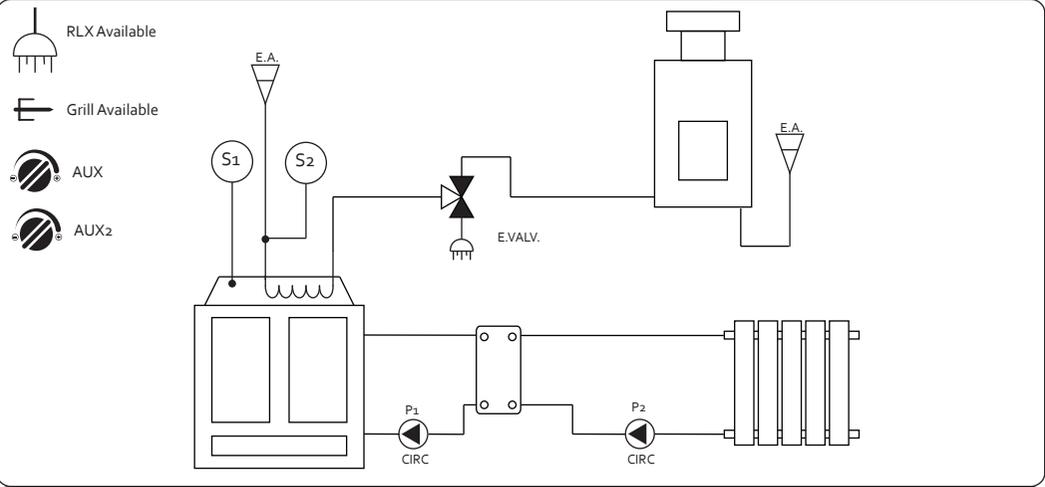
code: 1627

item: 301RLX



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**SYSTEM WITH INTERNAL WINDING AS AND OPTIONAL ENABLING GRILL FUNCTION** **PROGRAM Pr2**



Initial	Name	Terminals
S1	Fireplace sonde	
S2	Flow switch (FLUSS)	
CIRC	Fireplace pump	
E.VALV.	Solenoid valve A.C.S.	
AUX	Thermostat with clean contacts	
AUX 2	Heating pump	

**PARAMETERS**

Display	Led	Descrizione	Default	Range	Unit
TP1	CIRC	Chimney pump thermostat	50	20-85	°C
TEH	E.VALV.	Sanitary exchange solenoid valve thermostat	52	20-85	°C
TAU	AUX 1	Auxiliary thermostat	54	20-85	°C
TP2	AUX 2	Additional thermostat	54	20-85	°C
OU4=TER		Output function AUX 2 Thermostat	GRL	GRL-TER	
OU4=GRL		Output function AUX 2 Grill	GRL	GRL-TER	

**PRICIPLE OF OPERATION**

IF the condition is true, the corresponding output is activated	Logic state	Output
IF( (RLX=ON) OR (FLUSS=CLOSED) )	RISC=OFF	
IF( (RLX=OFF) AND (FLUSS=OPENED) )	RISC=ON	
IF( (S1 >= TP1) AND (RISC=ON) )		CIRC
IF(S1 >= TEH)		E.VALV.
IF(S1 >= TAU)		AUX
IF( (S1 >= TP2) AND (OU4=TER) )		AUX 2

# Manual EVO RLX

code: 1627

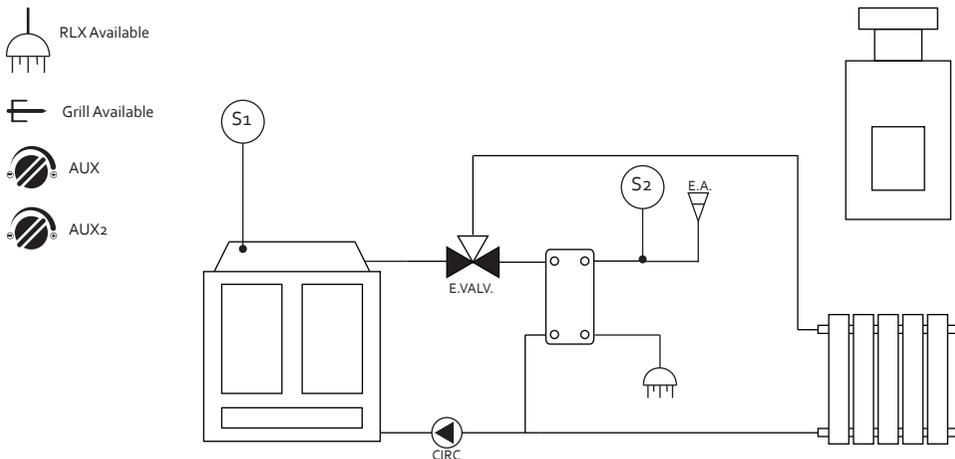
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## SYSTEM WITH EXTERNAL EXCHANGER AS AND OPTIONAL ENABLING GRILL FUNCTION

## PROGRAM Pr3



Initial	Name	Terminals	
S1	Fireplace sonde		
S2	Flow switch (FLUSS)		
CIRC	Fireplace pump		
E.VALV.	Diverter solenoid valve		
AUX	Thermostat with clean contacts		
AUX 2	Furnace integration		

## PARAMETERS

Display	Led	Description	Default	Range	Unit
TP1	CIRC	Fireplace thermostat	50	20-85	°C
TEH	E.VALV.	Solenoid valve sanitary exchange thermostat	52	20-85	°C
TRU	AUX 1	thermostat with clean contacts	54	20-85	°C
TP2	AUX 2	Furnace integration thermostat	54	20-85	°C
OU4=TER		Output function AUX 2 Thermostat	GRL	GRL-TER	
OU4=GRL		Output function AUX 2 Grill	GRL	GRL-TER	

## PRICIPLE OF OPERATION

IF the condition is true, the corresponding output is activated	Logic state	Output
IF ( RLX=ON ) OR ( FLUSS=CHIUSO ) )	RISC=OFF	
IF ( RLX=OFF ) AND ( FLUSS=APERTO ) )	RISC=ON	
IF ( S1 >= TEH ) AND ( RISC=ON ) )		CIRC
IF ( S1 >= TP1 )		E.VALV.
IF ( S1 >= TAU )		AUX
IF ( S1 >= TP2 ) AND ( OU4=TER ) )		AUX 2

# Manual EVO RLX

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## SYSTEM WITH EXTERNAL SANITARY WATER BOYLER AND OPTIONAL ENABLING GRILL FUNCTION

## PROGRAM Pr4



RLX Available



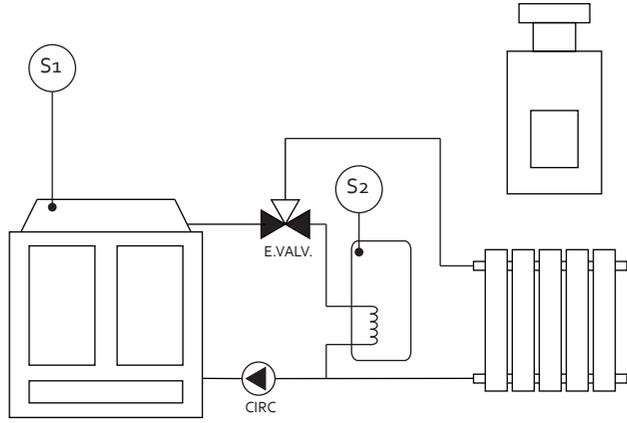
Grill Available



AUX



AUX2



Initial	Name	Terminals	
S1	Fireplace sonde		
S2	Boylor sonde		
CIRC	Fireplace pump		
E.VALV.	Diverter solenoid valve		
AUX	Thermostat with clean contacts		
AUX 2	Grill or furnace integration		

PARAMETERS					
Display	Led	Description	Default	Range	Unit
TP1	CIRC	Chimney pump thermostat	50	20-85	°C
TEH	E.VALV.	Max temperature boylor solenoid valve thermostat	54	20-85	°C
TEL	E.VALV.	Min temperature boylor thermostat	56	20-85	°C
TRU	AUX	Chimney integration thermostat	54	20-85	°C
TP2	AUX 2	Boylor or grill integration thermostat	54	20-85	°C
OU4=TER		Output function AUX 2 Thermostat	GRL	GRL-TER	
OU4=GRL		Output function AUX 2 Grill	GRL	GRL-TER	

PRINCIPLE OF OPERATION		
IF the condition is true, the corresponding output is activated	Logic state	Output
IF( (RLX=ON) OR (FLUSS=CLOSED) )	RISC=OFF	
IF( (RLX=OFF) AND (FLUSS=OPENED) )	RISC=ON	
IF(S2 <= TEL)	(CAR=1)	
IF(S2 >= TEH)	(CAR=0)	
IF(CAR_1) AND (S1 > S2) AND (S1 > TEL)		CIRC
IF(S2 <= TEL) ON OR (S2 >= TEH) OFF		E.VALV.
IF(S1 >= TAU)		AUX
IF(S2 >= TP2) AND (OU4=TER)		AUX 2

# Manual EVO RLX

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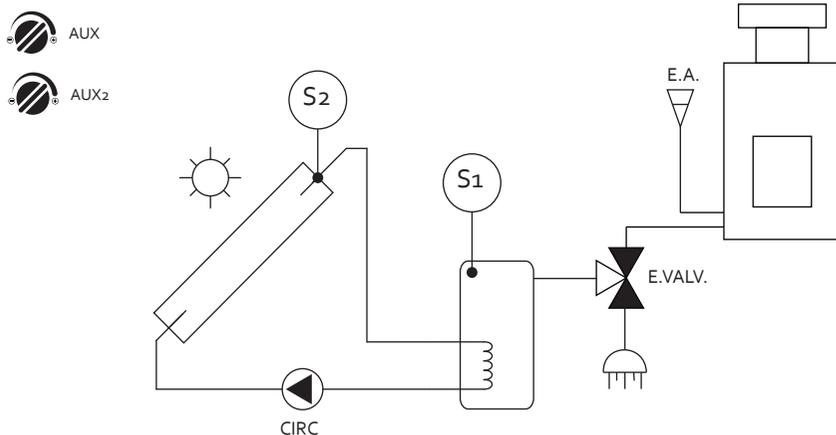
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## SYSTEM MANAGEMENT SOLAR GATHERER WITH FORCED CIRCULATION

## PROGRAM Pr5



Initial	Name	Terminals
S1	Boylor sonde	
S2	Gatherer sonde	
CIRC	Fireplace pump	
E.VALV.	Solenoid valve A.C.S.	
AUX	Auxiliary thermostat	
AUX 2	Furnace integration	

PARAMETERS					
Display	Led	Description	Default	Range	Unit
TEH	E.VALV.	Solenoid valve sanitary exchange thermostat	52	20-85	°C
TRU	AUX	Thermostat with clean contacts	54	20-85	°C
TP2	AUX2	Furnace integration thermostat	54	20-85	°C
DEL		Sondes Delta Differential (Technical Menu)	4	2-20	°C

PRINCIPLE OF OPERATION		
IF the condition is true, the corresponding output is activated	Logic state	Output
IF( S2 >=(S1 + DEL) )		CIRC
IF(S1 >= TEH)		E.VALV.
IF(S1 >= TAU)		AUX
IF(S1 >= TP2)		AUX 2

# Manual EVO RLX

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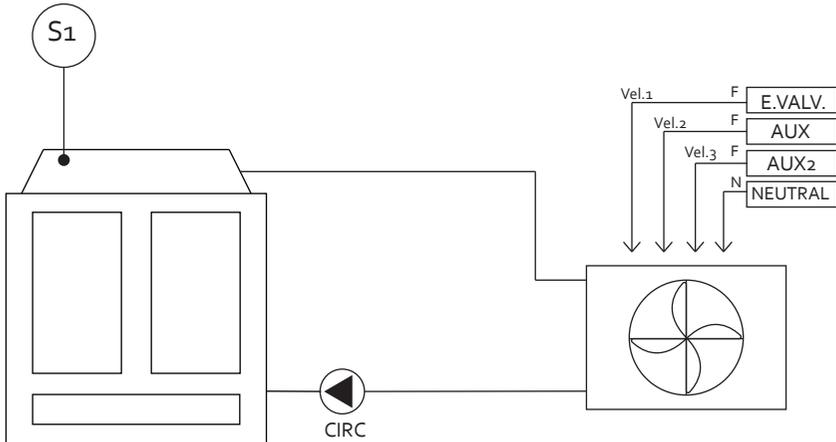
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## SYSTEM WITH RADIATOR FANCOIL

## PROGRAM Pr6



Initial	Name	Ventilator fancoil terminals	
S1	Fireplace sonde		
CIRC	Fireplace pump		
E.VALV.	Fase 1 speed		
AUX	Fase 2 speed		
AUX 2	Fase 3 speed		

### PARAMETERS

Display	Led	Description	Default	Range	Unit
TP0	CIRC	Chimney pump thermostat	50	20-85	°C
TV1		Speed temperature 1		20-85	°C
TV2		Speed temperature 2		TV1-85	°C
TV3		Speed temperature 3		TV2-85	°C

### PRINCIPLE OF OPERATION

IF the condition is true, the corresponding output is activated	Logic state	Output
IF(S1 >= TP0)		CIRC
IF(S1 >= TV1)		E.VALV.
IF(S1 >= TV2)		AUX
IF(S1 >= TV3)		AUX 2

# Manual EVO RLX

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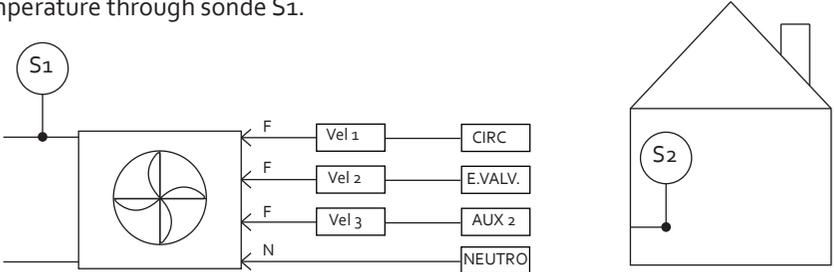
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**CONTROLLER FANCOIL THERMOSTAT** **PROGRAM Pr7**



**i** the fan coil speed are determined by supply water temperature through sonde S1.



Initial	Name	Ventilator fancoil terminals	
S1	Supply temperature sonde		
S2	Ambient temperature sonde		
CIRC	Fase 1 speed		
E.VALV.	Fase 2 speed		
AUX	Auxiliary thermostat		
AUX 2	Fase 3 speed		

PARAMETERS					
Display	Led	Description	Default	Range	Unit
TAH		Ambient thermostat	21	5-45	°C
TV1		Speed thermostat 1	50	20-85	°C
TV2		Speed thermostat 2	54	TV1-85	°C
TV3		Speed thermostat 3	56	TV2-85	°C

PRINCIPLE OF OPERATION		
IF the condition is true, the corresponding output is activated	Logic state	Output
IF ( S2 < TAH ) AND ( S1 > = TV1 )		CIRC
IF ( S2 < TAH ) AND ( S1 > = TV2 )		E.VALV.
IF ( S2 < TAH ) AND ( S1 > = TV3 )		AUX 2
IF ( S2 > = TAU )		AUX

# Manual EVO RLX

code: 1627

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**CONTROLLER FANCOIL THERMOSTAT** **PROGRAM Pr8**

**i** the fancoil speed are established as a function of ambient temperature and applied delta.

Ex:

TAH=20 DEL=2

S2=20 vel 0

S2=19 vel 1

S2=18 vel 1

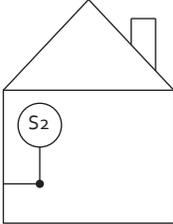
S2=17 vel 2

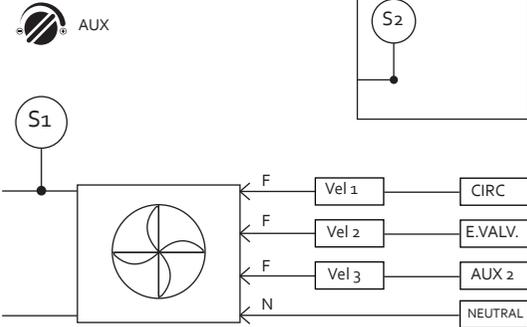
S2=16 vel 2

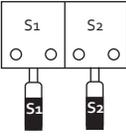
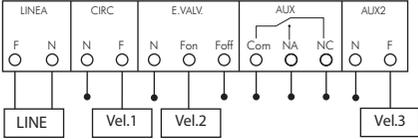
S2=15 vel 3

S2=14 vel 3

S2=13 vel 3





Initial	Name	Ventilator fancoil terminals	
S1	Sent temperature sonde		
S2	Ambient temperature sonde		
CIRC	Fase 1 speed		
E.VALV.	Fase 2 speed		
AUX	Auxiliary thermostat		
AUX 2	Fase 3 speed		

PARAMETERS					
Display	Led	Description	Default	Range	Unit
TAH		Ambient thermostat	21	5-45	°C
TST		Start fancoil thermostat	50	20-85	°C
DEL		thermostat	4	TV1-85	°C
TRU		Auxiliary thermostat with clean contacts	56	TV2-85	°C

PRINCIPLE OF OPERATION		
IF the condition is true, the corresponding output is activated	Logic state	Output
IF(S2<TAH) AND ( S2>=(TAH-DEL) )		CIRC
IF(S2<TAH-DEL) AND ( S2>=(TAH-DEL*2) )		E.VALV.
IF( S2<(TAH-DEL*2) )		AUX 2
IF(S2>=TAU)		AUX

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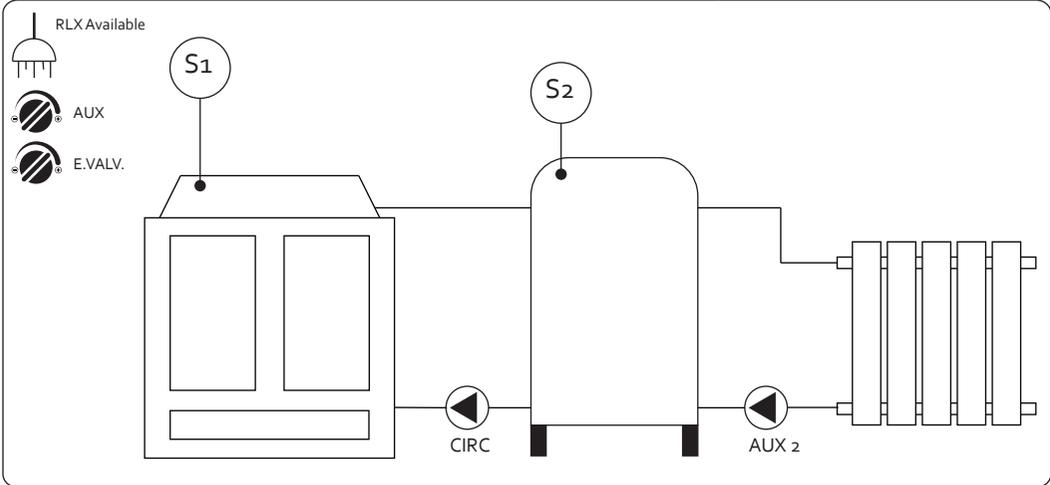
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## HEATING SYSTEM MANAGEMENT WITH LEVY PUFFER

PROGRAM Pr9



Initial	Name	Terminals	
S1	Fireplace sonde		
S2	Puffer sonde		
CIRC	Fireplace pump		
E.VALV.	Puffer integration solenoid valve		
AUX	Puffer auxiliary thermostat		
AUX 2	Heating pump		

PARAMETERS					
Display	Led	Description	Default	Range	Unit
TP1	CIRC	Chimney pump thermostat	50	20-85	°C
TEH	E.VALV.	Sanitary exchange solenoid valve thermostat	52	20-85	°C
TRU	AUX	Thermostat with clean contacts	56	20-85	°C
TP2	AUX 2	Heating pump thermostat	52	20-85	°C

PRINCIPLE OF OPERATION		
IF the condition is true, the corresponding output is activated	Logic state	Output
IF ( (RLX=ON) OR (FLUSS=CHIUSO) )	RISC=OFF	
IF ( (RLX=OFF) AND (FLUSS=APERTO) )	RISC=ON	
IF ( (S1 >= TP1) AND (S1 > S2) )		CIRC
IF (S2 >= TEH)		E.VALV.
IF (S2 >= TAU)		AUX
IF ( (S2 >= TP2) AND (RISC=ON) )		AUX 2

# Manual EVO RLX

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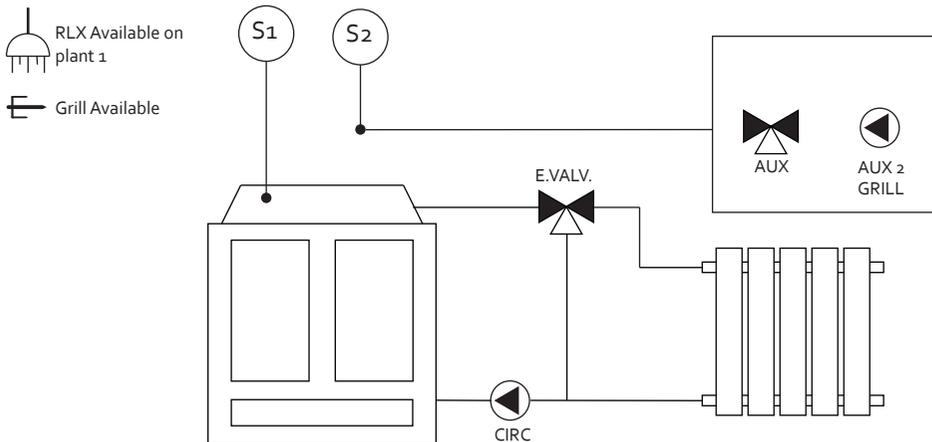
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## SYSTEM DUAL PLANT WORKING WITH 2 THERMOSTATS FOR SONDE

PROGRAM Pr10



Initial	Name	Terminals
S1	Fireplace sonde	
S2	2° plant sonde	
CIRC	Fireplace pump	
E.VALV.	Diverter or integration solenoid valve	
AUX	2° plant auxiliary thermostat	
AUX 2	2° plant or Grill pump (OU4)	

## PARAMETERS

Display	Led	Description	Default	Range	Unit
TP1	CIRC	Chimney pump thermostat (Imp.1)	50	20-85	°C
TEH	E.VALV.	Solenoid valve thermostat (Imp.1)	52	20-85	°C
TRU	AUX	Thermostat with clean contacts (Imp.2)	56	20-85	°C
TP2	AUX 2	Thermostat (Imp.2)	52	20-85	°C
OU4=TER		Output function AUX 2 thermostat	GRL	GRL-TER	
OU4=GRL		Output function AUX 2 Grill	GRL	GRL-TER	

## PRINCIPLE OF OPERATION

IF the condition is true, the corresponding output is activated	Logic state	Output
IF( (RLX=ON) OR (FLUSS=CHIUSO) )	RISC=OFF	
IF( (RLX=OFF) AND (FLUSS=APERTO) )	RISC=ON	
IF(S1 > = TP1)		CIRC
IF(S1 > = TEH)		E.VALV.
IF(S2 > = TAU)		AUX
IF( (S2 > = TP2) AND (OU4=TER) )		AUX 2

# Manual EVO RLX

code: 1627

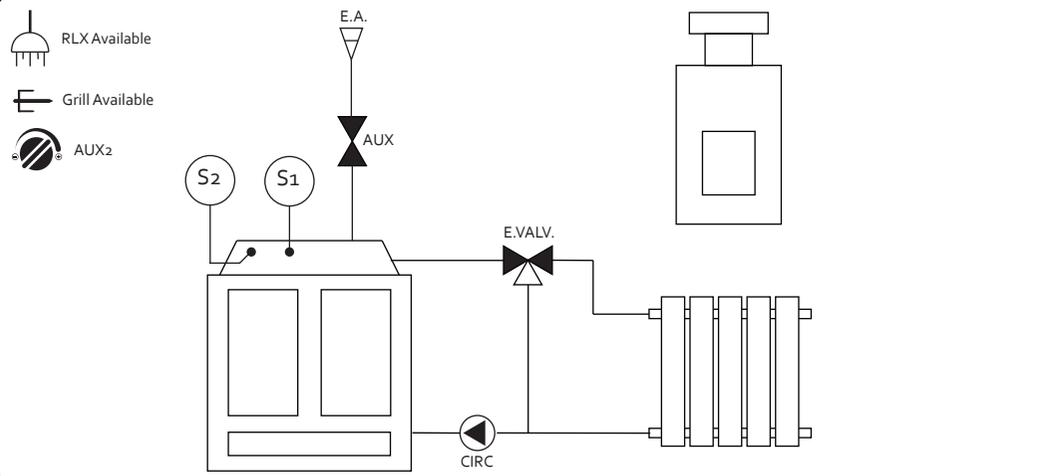
item: 301RLX



Made by: coelte.net

**SIMPLE SYSTEM 1 PUMP+ 1 EV + THERMOSTAT AUX 2 (OR GRILL)  
WITH CLOSED LOOP AUTOMATIC FILLING SYSTEM**

**PROGRAM Pr11**



Initial	Name	Terminals
S1	Fireplace sonde	
S2	Level sonde	
CIRC	Fireplace pump	
E.VALV.	Diverter solenoid valve	
AUX	Filling solenoid valve	
AUX 2	Integration or grill thermostat	

PARAMETERS					
Display	Led	Description	Default	Range	Unit
TP1	CIRC	Chimney pump thermostat	50	20-85	°C
TEH	E.VALV.	Sanitary exchange solenoid valve thermostat	52	20-85	°C
	AUX	Filling water solenoid valve thermostat			
TP2	AUX 2	Heating pump thermostat	52	20-85	°C
OU4=TER		Output function AUX 2 thermostat	GRL	GRL-TER	
OU4=GRL		Output function AUX 2 grill	GRL	GRL-TER	

## PRINCIPLE OF OPERATION

IF the condition is true, the corresponding output is activated	Logic state	Output
IF( (RLX=ON) OR (FLUSS=CHIUSO) )	RISC=OFF	
IF( (RLX=OFF) AND (FLUSS=APERTO) )	RISC=ON	
IF(S1 >= TP1)		CIRC
IF(S1 >= TEH)		E.VALV.
IF Level sensor out of the water		AUX
IF((S1 >= TP2) AND (OU4=TER))		AUX 2