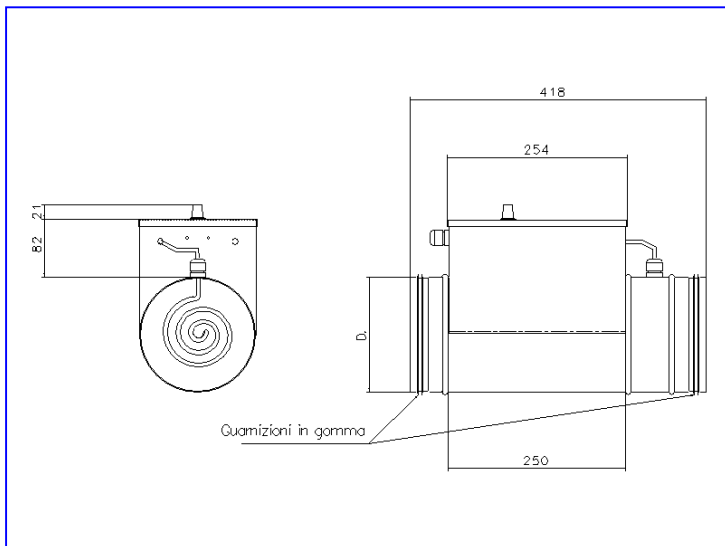


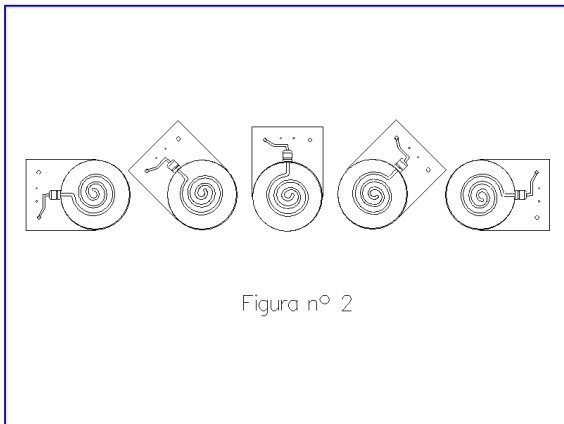
HEATERS ASSEMBLED ON ROUND DUCT
WITH OR WITHOUT TEMPERATURE ELECTRONIC CONTROL



The new RC heaters range, it's composed by electric resistances assembled on galvanized or Inox steel round duct. These heaters could be used for pre or post heating on air conditioning plant.

The compact dimension and the easier installation of these heaters, permit to use them on new or old machine or plant.

The rubber gasket put in the connection area, assure a very good union with the other parts of the plant.



The heaters could be assembled in vertical position without particular indication, if you need to assembly the heaters in vertical position it's most important following the indication of drawing n°2.

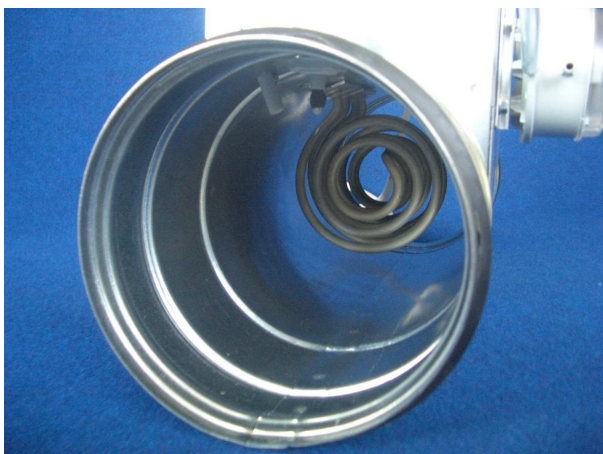
The correct position of the heater, permit the regular function of the security thermal protector assembled on.

The security device assembled on the heaters grant a very high level of security and long life of the heaters.

All the heaters are complete with one automatic reset bimetallic thermal protector and one manual reset thermal protector.

The manual reset it's possible with a push button put on the top of the thermal protector or on the top of the electric box cover.

On request it's possible assembled directly on the heaters a security pressostat that permit the function of the heaters only when there is a pre definite air flow inside of the duct.



The temperature control it's realized by a TRIAC electronic device assembled directly into the heaters.

The exit temperature it's continually controlled by a sensor put into the duct, the temperature regulation it's possible by a potentiometer put on the cover of the electric box, a very clear label under the potentiometer permit to select the exit ΔT into 0-30°C range.

The heaters are dimensioned to obtain a maximum exit temperature of 40°C, our technical department it's at your disposal for different request.

The complete series of heaters as composed as follow:

- **RCF-SC mono phase,**

WIRE resistances Heaters, assembled on round duct complete with:

- o automatic reset thermal protector
- o manual reset thermal protector
- o terminal board
- o cable glands.

- **RCF-SC three phase,**

WIRE resistances Heaters, assembled on round duct complete with:

- o automatic reset thermal protector
- o manual reset thermal protector
- o terminal board
- o cable glands.



- **RCC-SC mono phase,**

TUBULAR resistances Heaters, assembled on round duct complete with:

- o automatic reset thermal protector
- o manual reset thermal protector
- o terminal board
- o cable glands.

- **RCC-SC three phase,**

TUBULAR resistances Heaters, assembled on round duct complete with:

- o automatic reset thermal protector
- o manual reset thermal protector
- o terminal board
- o cable glands.



- **RCF-SCT mono phase,**
WIRE resistances Heaters, assembled on round duct complete with:

- o automatic reset thermal protector
- o manual reset thermal protector
- o command relay
- o terminal board
- o cable glands.



- **RCF-SCT three phase,**
WIRE resistances Heaters, assembled on round duct complete with:

- o automatic reset thermal protector
- o manual reset thermal protector
- o command relay
- o terminal board
- o cable glands.

- **RCC-SCT mono phase,**
TUBULAR resistances Heaters, assembled on round duct complete with:

- o automatic reset thermal protector
- o manual reset thermal protector
- o command relay
- o terminal board
- o cable glands.



- **RCC-SCT three phase,**
TUBULAR resistances Heaters, assembled on round duct complete with:

- o automatic reset thermal protector
- o manual reset thermal protector
- o command relay
- o terminal board
- o cable glands.

- **RCFE-SCT mono phase,**
 WIRE resistances Heaters, assembled on round duct complete with:

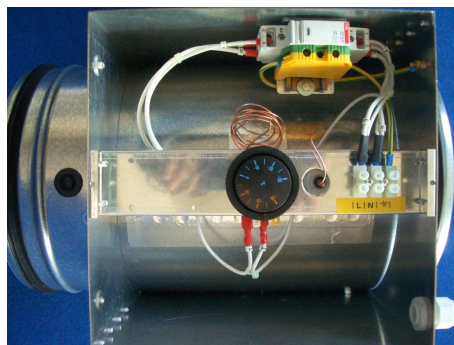
- o automatic reset thermal protector
- o manual reset thermal protector
- o reset push button for manual reset thermal protector
- o command relay
- o terminal board
- o electronic temperature control
- o pressostat
- o cable glands



- **RCCE-SCT mono phase,**
 TUBULAR resistances Heaters, assembled on round duct complete with:

- o automatic reset thermal protector
- o manual reset thermal protector
- o reset push button for manual reset thermal protector
- o command relay
- o terminal board
- o electronic temperature control
- o pressostat
- o cable glands

All the models could be drive by a room thermostat or by an adjustable duct thermostat normally $-35+35^{\circ}\text{C}$, the second solution permit to switch on automatically the heaters when the temperature is less than the pre selected value.



A schedule.

ROUND HEATERS							
Model		RC150	RC160	RC200	RC250	RC315	RC400
Nominal diameter (D.) mm		150	160	200	250	315	400
Real diameter mm.		146	156	196	246	311	396
Minimum air flow (mc/h)		150	150	230	360	580	710
WIRE HEATERS RCF-SCT-...-M e RCFE-SCT-...-M							
Power (W)	Tension (V)						
1000	230-1			x	x		
2000	230-1			x	x		
3000	230-1			x	x	x	x
WIRE HEATERS RCF-SCT-...-T							
3000	400-3			x	x		
4500	400-3			x	x	x	
6000	400-3				x	x	x
9000	400-3				x	x	x
12000	400-3					x	x
TUBULAR HEATERS RCC-SCT-...-M e RCCE-SCT-...-M							
750	230-1	x	x				
1000	230-1			x	x		
1500	230-1	x	x				
2000	230-1			x	x	x	
2250	230-1	x	x				
3000	230-1			x	x	x	
4000	230-1					x	
TUBULAR HEATERS RCC-SCT-...-T							
2250	400-3	x	x				
3000	400-3			x	x		
4500	400-3			x	x		
6000	400-3					x	
9000	400-3					x	

OPTIONALS

ADJUSTABLE DUCT THERMOSTAT -35+35°C ASSEMBLED ON THE DUCT

TEMPERATURE ELECTRONIC CONTROL

LOW PRESSURE PRESSOSTAT 0,2-3Pa



To required information or offer use the following code:

RCF-SCT-....-M (T)
RCC-SCT-....-M (T)

RCF= wire resistances
RCFE= wire resistances with electronic
RCC= tubular resistances
RCCE= tubular resistance with electronic
SC= electric parts box
SCT= electric parts box complete with relay
000= duct diameter
00= required power (P/100 es. 500W=05; 9000=90)
M= mono phase
T= three phase

Example: to required a wire resistance heaters 2KW 230V duct d.200mm:

RCF-SCT-20020-M

Example: to required a tubular resistance heaters 1,5KW 230V d.160mm with electronic control:

RCCE-SCT-16015-M

To calculate the right power you need, you could use the following simple formula:

$$P = Q \times 0,268 \times \Delta t$$

- P = power (W),
- Q = air flow (mc/h),
- Δt = temperature delta °C (outlet Temp. – inlet Temp.).

Different power or dimension present in schedule A are available on request, please contact directly out technical department.

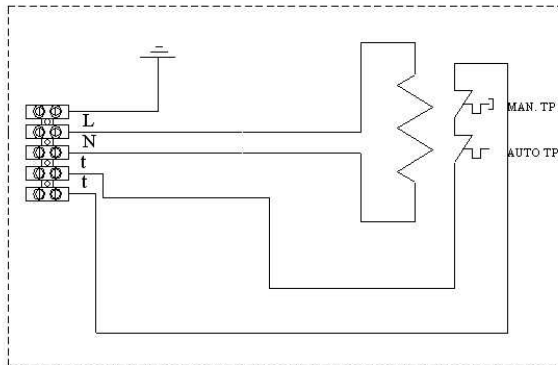
a.mirelli@brevettirf.com

fax 0039 (0)363 64808

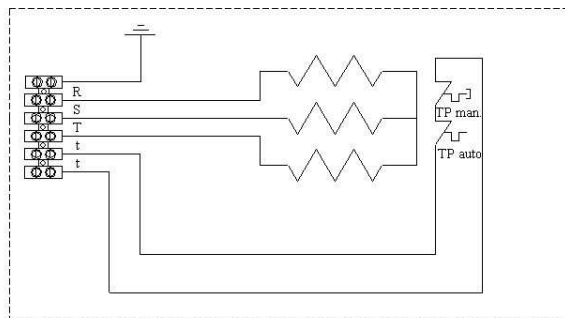
RF ELECTRIC Srl - Via Trecella 2 - 20062 Cassano d'Adda - MI - Italy
Tel. 0039 0363 64994 Fax 0039 0363 64808 mail: info@brevettirf.com site: www.brevettirf.com

ELECTRIC PLAN

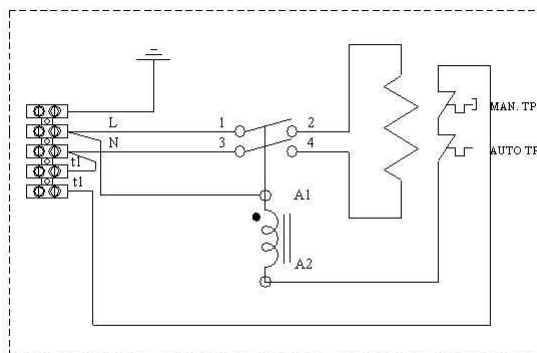
RCF-SC-.....-M
 RCC-SC-.....-M



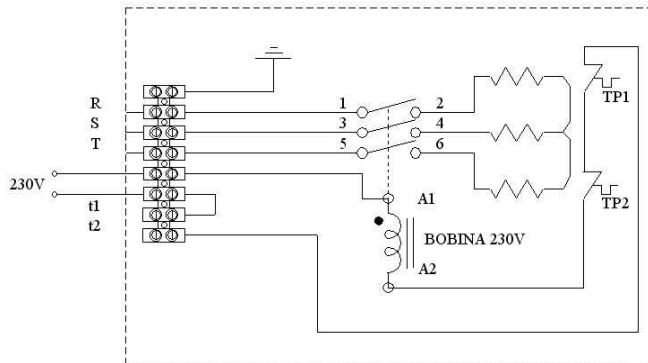
RCF-SC-.....-T
 RCC-SC-.....-T



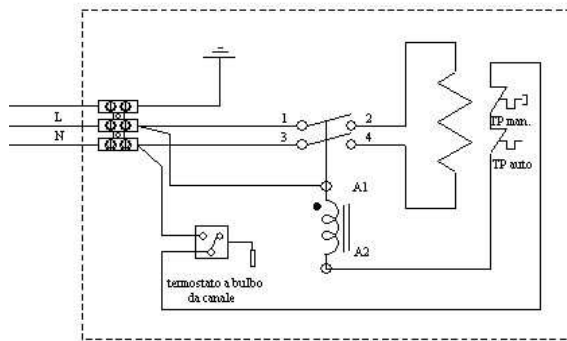
RCF-SCT-.....-M
 RCC-SCT-.....-M



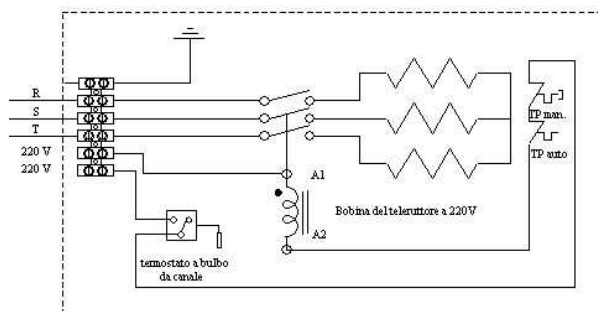
RCF-SCT-.....-T
 RCC-SCT-.....-T



RCF-SCTTC-.....-M
 RCC-SCTTC-.....-M



RCF-SCTTC-.....-T
 RCC-SCTTC-.....-T



RCFE-SC-.....-M
 RCCE-SC-.....-M

