AERMEC

la prima per il clima

RXLE20

Resistenza elettrica per ventilconvettori cassette FCL
Electric heater for FCL cassette fan coils
Résistance électrique pour ventilo-convecteurs cassettes FCL
Elektrisches Heizelement für Kassetten-Gebläsekonvektoren FCL
Resistencia eléctrica para ventilconvectores de cajas FCL

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INHALTSVERZEICHN • INDICE

CE

AERMEC
COMPANY QUALITY SYSTEM
ICIM
ISO 9001:2008 - Cert. n° 0128
CISQ IQNet
AERMEC S.P.A.

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ARXLE20UJ 1008 - 4734850_01

RXLE20

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Il kit resistenza elettrica per riscaldamento RXLE20 è stato progettato per essere montato solo sui ventilconvettori di nostra produzione della serie FCL e solo se abbianati agli accessori GLL20R. Non sono consentite altre applicazioni o abbinamenti perchè possono provocare danni alle persone e alle cose.

DICHIARAZIONE DI CONFORMITÀ CE

Noi, firmatari della presente, dichiariamo sotto la nostra esclusiva responsabilità, che il prodotto:

KIT RESISTENZA ELETTRICA serie RXLE20

al quale questa dichiarazione si riferisce è conforme alle seguenti norme armonizzate:

- CEI EN 60335-2-40
- CEI EN 55014-1
- CEI EN 55014-2
- CEI EN 61000-6-1
- CEI EN 61000-6-2
- CEI EN 61000-6-3
- CEI EN 61000-6-4

soddisfando così i requisiti essenziali delle seguenti direttive:

- Direttiva LVD 2006/95/CE
- Direttiva compatibilità elettromagnetica 2004/108/CE

Le kit résistance électrique pour chauffage RXLE20 a été conçu pour n'être monté que sur les ventilo-convecteurs de notre fabrication de la série FCL et uniquement en combinaison avec les accessoires GLL20R. Aucune autre application ou combinaison n'est permise parce qu'elle pourrait provoquer des dommages aux personnes et aux choses.

CERTIFICAT DE CONFORMITE CE

Nous soussignés déclarons sous notre exclusive responsabilité que le produit:

RESISTANCE ELECTRIQUE série RXLE20

auquel cette déclaration fait référence, est conforme aux normes harmonisées suivantes:

- EN 60335-2-40
- EN 55014-1
- EN 55014-2
- CEI EN 61000-6-1
- CEI EN 61000-6-2
- CEI EN 61000-6-3
- CEI EN 61000-6-4

satisfaisant ainsi aux conditions essentielles des directives suivantes:

- Directive LVD 2006/95/CE
- Directive compatibilité électromagnétique 2004/108/CE

El kit resistencia eléctrica para calefacción RXLE20 ha sido diseñado para montarse solo en los ventilconvectores de nuestra producción de la serie FCL y solo si se combinan con los accesorios GLL20R. No se permiten otras aplicaciones o combinaciones porque pueden provocar daños a las personas o cosas.

DECLARACIÓN DE CONFORMIDAD CE

Los que suscriben la presente declaran bajo la propia y exclusiva responsabilidad que el conjunto en objeto, definido como sigue:

RESISTENCIA ELÉCTRICA serie RXLE20

Al que esta declaración se refiere, está en conformidad a las siguientes normas armonizadas:

- EN 60335-2-40
- EN 55014-1
- EN 55014-2
- CEI EN 61000-6-1
- CEI EN 61000-6-2
- CEI EN 61000-6-3
- CEI EN 61000-6-4
- EN 61000-6-3

al que esta declaración se refiere, está en conformidad a las siguientes normas armonizadas:

- Directiva LVD 2006/95/CE
- Directiva compatibilidad electromagnétic 2004/108/CE

The electric heater kit for RXLE20 heating has been designed to be mounted only onto the FCL fan coils we produce and only if coupled with GLL20R accessories. Other applications and couplings are not allowed because they can cause injury/damage to persons/objects.

CE CONFORMITY DECLARATION

We the undersigned declare, under our own exclusive responsibility, that the product:

ELECTRIC HEATER KIT RXLE20 series

to which this declaration refers, complies with the following standardised regulations:

- EN 60335-2-40
- EN 55014-1
- EN 55014-2
- CEI EN 61000-6-1
- CEI EN 61000-6-2
- CEI EN 61000-6-3
- CEI EN 61000-6-4

thus meeting the essential requisites of the following directives:

- Directive LVD 2006/95/CE
- EMC Electromagnetic Compatibility Directive 2004/108/CE

Der Bausatz Elektrischer Heizwiderstand RXLE20 wurde nur für die Montage an den Gebläsekonvektoren unserer Produktion der Serie FCL geplant und nur, wenn diese mit den Zubehörsätzen GLL20R kombiniert werden. Andere Anwendungen oder Kombinationen sind nicht zulässig, da sie zu Personen- und Sachschäden führen können.

CE KONFORMITÄTSERKLÄRUNG

Wir, die hier Unterzeichnenden, erklären auf unsere ausschließlich Verantwortung, dass das Produkt:

ELEKTRISCHER HEIZWIDERSTAND der Serie RXLE20

auf das sich diese Erklärung bezieht, den folgenden harmonisierten Normen entspricht:

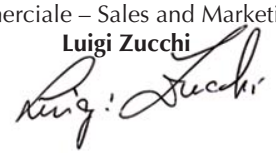
- EN 60335-2-40
- EN 55014-1
- EN 55014-2
- CEI EN 61000-6-1
- CEI EN 61000-6-2
- CEI EN 61000-6-3
- CEI EN 61000-6-4

womit die grundlegenden Anforderungen folgender Richtlinien erfüllt werden:

- Richtlinie LVD 2006/95/CE
- Richtlinie zur elektromagnetischen Verträglichkeit 2004/108/CE

Bevilacqua, 07/06/2011

La Direzione Commerciale – Sales and Marketing Director
Luigi Zucchi



Resistance functioning is controlled by a thermal fuse - probe applied directly to the resistance.
When the thermal fuse - probe intervenes, it cuts the resistance off.
Any intervention of the thermal fuse - probe leads to replacement of the same in order to restore normal functioning.

INSTALLATION

WARNING: before carrying out any intervention, make sure that the electric power supply has been disconnected.

CAUTION: before carrying out any work, wear the appropriate individual protection devices.

WARNING: the appliance must be installed in compliance with national regulations on this subject.

WARNING: the resistances reach high temperatures. Before intervening on the unit make sure that the temperatures of the components do not constitute a danger for the operator.

WARNING: in units with the RXLE accessory installed, the flow inlets must be free. The inlets must not be obstructed, even partially.

ATTENTION: the electric connections, maintenance, the installation of the fan coils and their accessories must only be performed by subjects with the technical-professional requisites for enabling and installation, transformation, extension and maintenance of the systems and able to check the same for safety and functionality purposes (in this manual they will be indicated by the generic term "staff with specific technical skill").

ATTENTION: Do not allow the appliance to be used by children or disabled people without relevant surveillance. Remember that the appliance is not a game.

Here find the essential indications for correct installation of the appliance. The completion of all operations, according to specific requirements, is left to the experience of the installer.

ASSEMBLY SEQUENCE

Apply the RXLE20 accessory before installing the FCL units.
The RXLE20 accessory is supplied complete with all necessary elements for correct installation.
It is the installer's responsibility to perform state-of-the-art assembly in compliance with Safety Standards.

PRELIMINARY OPERATIONS:

ATTENTION: fit an omnipolar magnet-circuit breaker (IG), max 10A 250V, to the power supply line with a minimum contact opening distance of 3 mm.
The power supply line must have section that is not less than 2.5 mm² with quality wire not less than N07V-K.

OPERATIONS FOR ASSEMBLY OF THE RESISTANCES:

- Remove the basin with grid from the FCL unit.
- Remove the fan from the FCL ventilation unit.
-- Apply the resistance on the media present in the battery mounting brackets, (1)
- **WARNING:** The fixing position of the resistance is very important!
- The resistance has 4 metal references (2) in the 2 central elements of the coil. The metal reference must be inside the coil support bracket, as indicated in figure.
- The resistance element (4) with thermal fuse-probe must be positioned in the side opposite the base.
- Block the resistance with the four locking elements supplied (6) applied to the battery bracket and secured with a screw.
- Remove the actuator unit (8) from the valve of the FCL to increase the space available in the hydraulic fittings compartment.
- Connect the resistance cables to the connector (7) in the ventilation compartment.
- Gather the resistance cables and take the excess length to the outside of the bulkhead (9), into the hydraulic fittings compartment, through the rubber fairlead (10). The cable-tensioner clip fixed outside the bulkhead is used to fix the length of the excess cable.
- **ATTENTION:** Check that the cables are not close to the surface of the resistances, that they adhere to the bulkhead so as not to interfere with the fan coil, that they do not meet sharp surfaces on their run and do not undergo traction.
- Re-mount the actuator unit on the valve of the FCL.
- Re-mount the fan on the FCL ventilation unit.
- Re-mount the basin and the grid and fix them.
- **ATTENTION:** do not use the connection V1, but only connections V2, V3 and V4.
- Carry out the tests and verifications necessary to guarantee state-of-the-art installation.

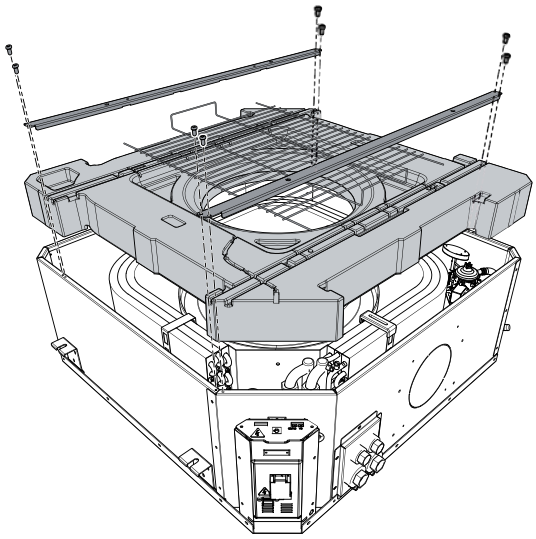
MAINTENANCE

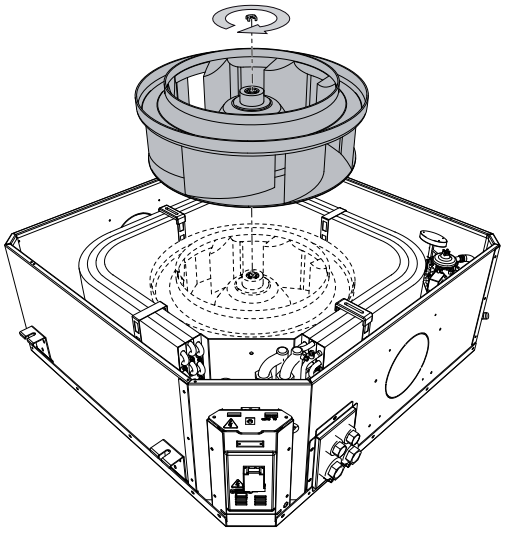
WARNING: it is mandatory to use suitable individual protection devices.

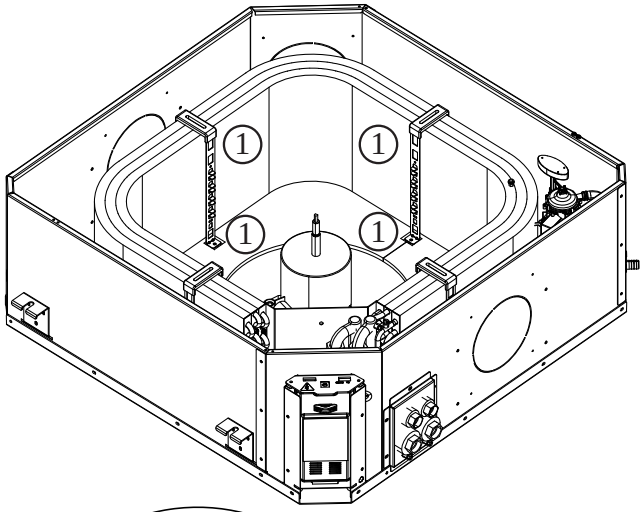
WARNING: the resistances reach high temperatures. Before intervening on the unit make sure that the temperatures of the components do not constitute a danger for the operator.

Maintenance can only be performed by staff with specific technical skill.
Before reactivating the resistance, after the intervention of the safety devices, look for the cause and restore the conditions for functioning in safety.
The thermal fuse cuts off functioning just of the electric resistance. Access inside the unit to replace it.

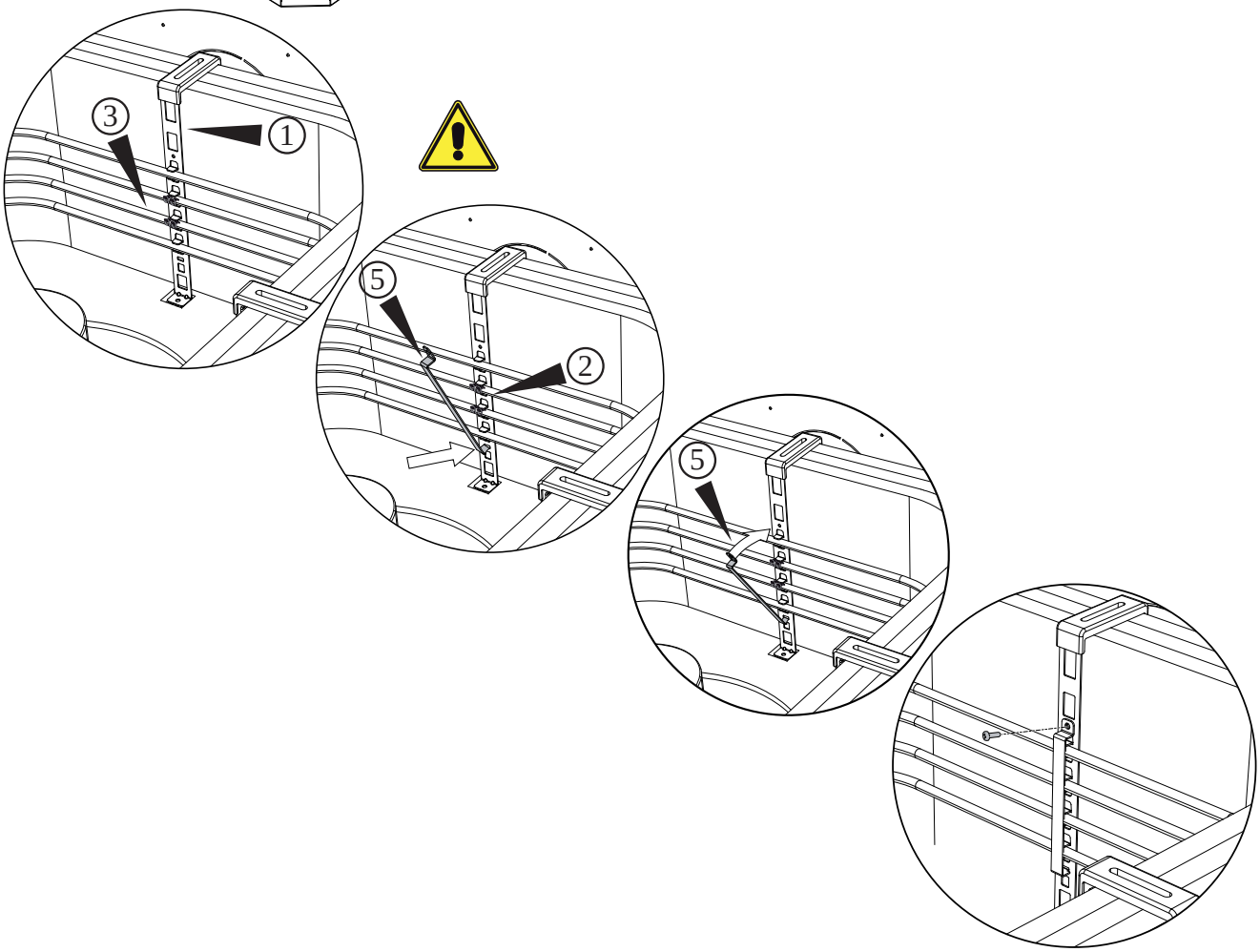
Electric power supply	**230V~ 50Hz**
Resistance heating capacity	**1400W**
Electric resistance input power	**6.1A**
Thermal fuse intervention temperature	**192°C**
Maximum functioning temperature of the resistances	**300°C**
Temperature limits for cables and silicone joints of the resistance	**-50÷150°C**
Maximum temperature limit for the cables of the thermocouple probe	**220°C**

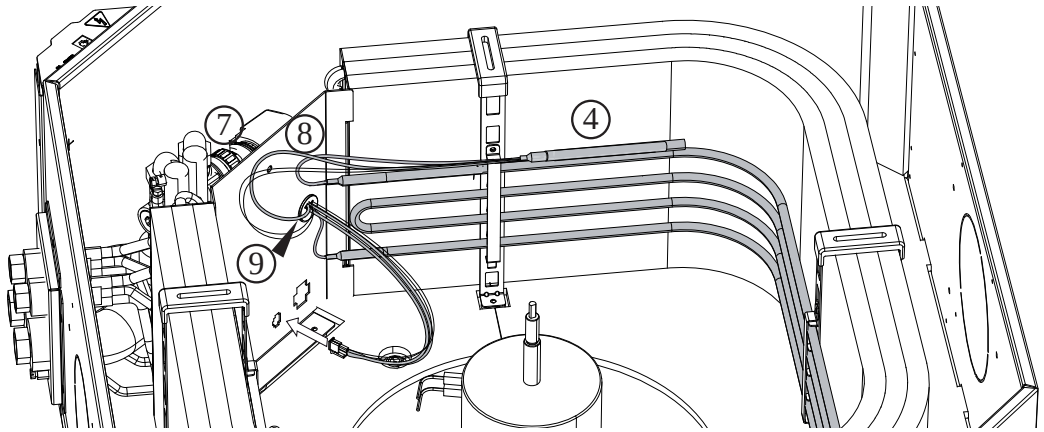






1 battery support brackets and support resistance in stainless steel
2 References to the metal resistance
3 Electrical resistance
4 Thermal Probe
5 Elements of blocking resistance
6 Connector compartment
ventilation
7 Group of the valve actuator
8 Bulkhead
9 rubber grommet.
10 Clip tensioner





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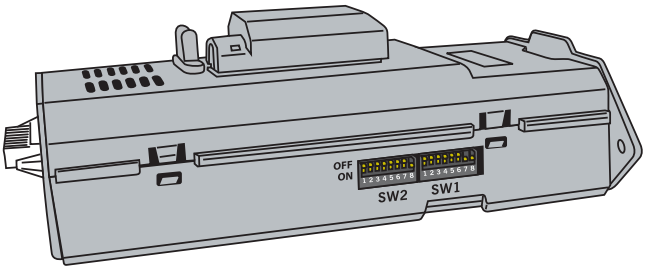
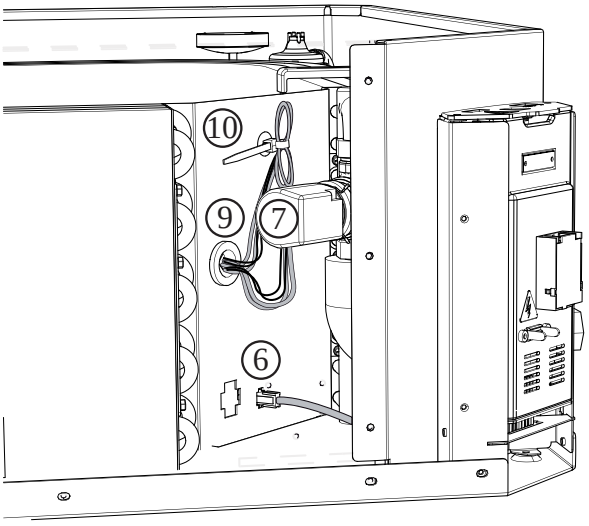




DIP-SWITCH SETTINGS

Remove voltage to the unit.
To be carried out in the installation phase by specialised staff.
SW2 contains settings that must not be modified (the default settings are given in the table).
By acting on the Dip-Switches of the SW1 the following functionalities are obtained:

SW 2

Dip 1 (Default **OFF**)
Factory settings.
Dip 2 (Default **OFF**)
Factory settings.
Dip 3 (Default **OFF**)
Factory settings.
Dip 4 (Default **OFF**)
Factory settings.
Dip 5 (Default **OFF**)
Factory settings.
Dip 6 (Default **OFF**)
Factory settings.
Dip 7 (Default **OFF**)
Factory settings.
Dip 8 (Default **ON**)
Factory settings.

SW 1

Dip 1 (Default **OFF**)
Resistance control:
- functioning in integration mode, OFF
- functioning in replacement mode, ON

Dip 2 (Default **OFF**)
Presence of the resistance:
- without resistance, OFF
- with resistance, ON

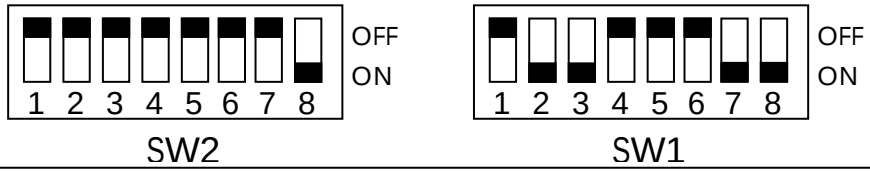
Dip 3 (Default **OFF**)
Type of plant:
- 2 pipes (FCL32 - FCL 36 - FCL 42 - FCL 62), OFF
- 4 pipes (FCL34 - FCL 38 - FCL 44 - FCL 64), ON

Dip 4 (Default **OFF**)
Factory settings.
Dip 5 (Default **OFF**)
Factory settings.
Dip 6 (Default **OFF**)
Ventilation control:
- continuous ventilation, OFF
- thermostat ventilation heating mode, ON.

Dip 7 (Default **ON**)
Factory settings ON
Dip 8 (Default **ON**)
Factory settings ON

SOME EXAMPLES:

FCL 4 pipes + Resistance



LEGENDA • READING KEY • LEGENDE • LEGENDE • LEYENDA

AL = Alimentatore
Power supply
Alimentation electrique
Spannung
Alimentador

CE = Contatto esterno
EX External contact
Contact extérieur
Externer Kontakt
Contacto externo

CN = Connettore
Connector
Connecteur
Schütz
Conector

CRE= Contattore resistenza elettrica
Electric heater contactor
Contacteur résistance eléctrique
El. Heizregister-Schutz
Contactor de la resistencia eléctrica

F = Fusibile • Fuse • Fusible
Sicherung • Fusible

IG = Interruttore generale • Main switch
Interupteur général • Hauptschalter
Interruptor general

M = Morsettiera • Terminal board
Boitier • Klemmleiste
Placa de bornes

ML = Motore aletta
Louvre motor
Moteur deflecteur
Motor- Umlenkklappe
Lamas motorizadas

MV = Motore ventilatore • Fan motor
Moteur ventilateur • Ventilatormotor
Motor del ventilador

NC = Non collegato
00 Not connected
Non relié
Nicht angeschlossen
No conectado

PE = Collegamento a terra
GND Earth connection
Mise à terre
Erdanschluss
Toma de tierra

RE = Resistenza elettrica
RX Electric heater
RXL Résistance électrique
Elt. Heizregister
Resistencia eléctrica

SA = Sonda ambiente
Room sensor
Sonde ambiante
Raumtemperaturfuhler
Sonda ambiente

SC = Scheda di controllo
Electronic control board
Platine de contrôle • Steuerschaltkreis
Tarjeta electrónica de control

SW = Sonda minima temperatura acqua
Water low temperature sensor
Sonde minimum temp. eau
Wasserfühler
Sonda temperatura mínima del agua

TR = Trasformatore • Transformer
Transformateur
Transformator • Transformador

TSR= Termostato a riarmo automatico
Automatic resetting thermostat
Thermostat à réarmement automatique
Thermostat automatischer Entriegelung
Termostato de rearme automático

TSRM= Termostato a riarmo manuale
Manual resetting thermostat
Thermostat à réarmement manuel
Thermostat manueller Entriegelung
Termostato de rearme manual

VHL=Valvola solenoide • Solenoid valve
VCF Vanne solenoide • Magnetventil
Válvula solenoide

VC = Valvola solenoide caldo
Solenoid valve hot
Vanne magnétique chaud
Magnetventil Heizbetrieb
Válvula solenoide para calor

VF = Valvola solenoide freddo
Solenoid valve cold
Vanne magnétique froid
Magnetventil Kühlbetrieb
Válvula solenoide para frío

= Componenti non forniti
Components not supplied
Composants non fournis
Nicht lieferbare Teile
Componentes no suministrados

= Componenti forniti optional
Optional components
Composants en option
Optionsteile
Componentes opcionales

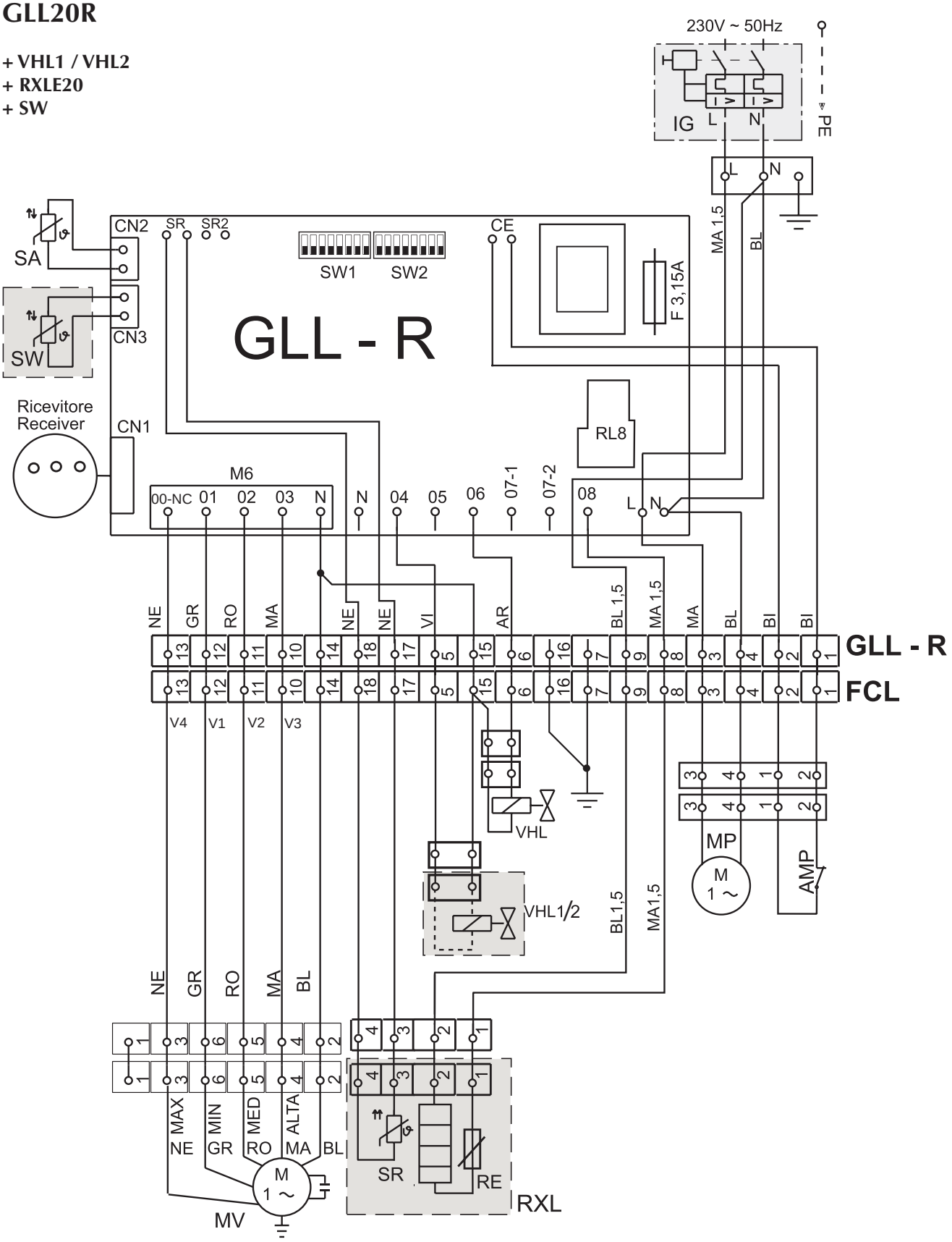
= Collegamenti da eseguire in loco
On-site wiring
Raccordements à effectuer in situ
Vor Ort auszuführende Anschlüsse
Cableado in situ

AR = Arancio • Orange • Orange • Orange • Naranja
BI = Bianco • White • Blanc • Weiss • Blanco
BL = Blu • Blue • Bleu • Blau • Azul
GR = Grigio • Grey • Gris • Gray • Gris
MA = Marrone • Brown • Marron • Braun • Marrón
NE = Nero • Black • Noir • Schwarz • Negro
RO = Rosso • Red • Rouge • Rot • Rojo
VE = Verde • Green • Vert • Grün • Verde
VI = Viola • Violet • Violet • Violet • Violeta

Gli schemi elettrici sono soggetti ad un continuo aggiornamento, è obbligatorio quindi fare riferimento a quelli a bordo macchina.
All wiring diagrams are constantly updated. Please refer to the ones supplied with the unit.
Nos schémas électriques étant constamment mis à jour, il faut absolument se référer à ceux fournis à bord de nos appareils.
Die Schaltpläne werden ständig aktualisiert, deswegen muss man sich stets auf das mit dem Gerät gelieferte Schaltschema beziehen.
El cableado de las máquinas es sometido a actualizaciones constantes. Por favor, para cada unidad hagan referencia a los esquemas suministrados con la misma.

FCL
GLL20R

+ VHL1 / VHL2
+ RXLE20
+ SW



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