Installation and maintenance manual
Manuel d'installation et de maintenance
Installations- und Wartungshandbuch
Manuale di installazione e di manutenzione
Manual de instalación y de mantenimiento

Aqu@Scop Advance Split DCI

English | Français | Deutsch | Italiano | Español

Dual zone kit
Kit double zone
Doppelbereichs-Bausatz
Kit doppia zona
Kit doble zona

AM AQHAS 05-N-2GB
Part number / Code / Teil Nummer / Codice / Código : **3990666GB**
Supersedes / Annule et remplace / Annulliert und ersetzt /
Annulla e sostituisce / Anula y sustituye : **AM AQHAS 05-N-1GB**

INSTALLATION INSTRUCTION English

NOTICE D'INSTALLATION Français

INSTALLATIONSHANDBUCH Deutsch

ISTRUZIONI INSTALLAZIONE Italiano

INSTRUCCIONES DE INSTALACIÓN Español

English

CONTENTS

COMPONENT	DESCRIPTION	QUANTITY
	CONNECTION BOX	1
	MIXER VALVE	1
	DZSFT PROBE	1
	POWER SUPPLY CABLE	1
	KM BUS CONNECTION CABLE	1
	SFT OR BTT PROBE	2 in kit 7ACFH0808 0 in kit 7ACFH0809

POWER SUPPLY MUST BE SWITCHED OFF
BEFORE STARTING WORK IN THE ELECTRIC CONTROL BOX

1. SAFETY INSTRUCTIONS

These safety instructions must be followed scrupulously in order to avoid any risk of personal injury or damage to property.

1.1. SAFETY INSTRUCTIONS EXPLANATIONS

Danger
This symbol warns people of the danger of personal injury.

Comment
Indications preceded by the word "Comment" contain additional information.

Warning

This symbol warns against damage to property and the environment.

1.2. INTENDED RECIPIENTS

The present manual is intended exclusively for qualified personnel.

➢ Electrical work must only be carried out by a qualified technician.

1.3. REGULATORY COMPLIANCE

When carrying out any work, you must abide by:

➢ Accident prevention legislation.

➢ Environmental protection legislation.

➢ Professional legislation.

➢ Current safety legislation.

1.4. WORKING ON THE INSTALLATION

Disconnect the mains power supply to the installation (e.g. at the fuse holder on the electrical connection or at the mains switch) and then check to ensure the power is disconnected.

Ensure that it is impossible for anyone to restore power to the installation while you are working.

In the case of a gas-fired boiler, shut the gas supply valve cock and block it to prevent any untimely opening.

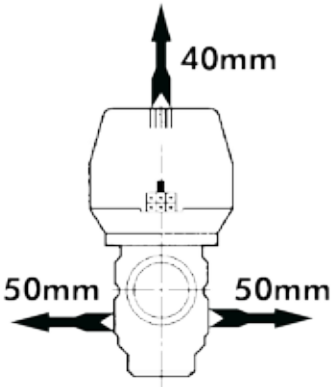
Comment

The dual zone function requires the presence of the SFT heating circuit temperature probe and the BTT buffer tank temperature probe. Refer to the manual supplied with the probes for installation details.

2. INSTALLATION

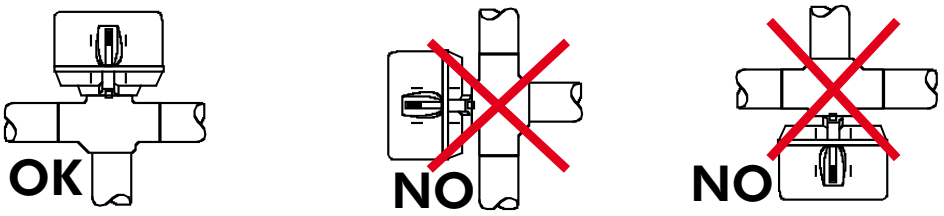
2.1. MIXER VALVE

Install the powered valve on the low temperature circuit in accordance with the following recommendations:

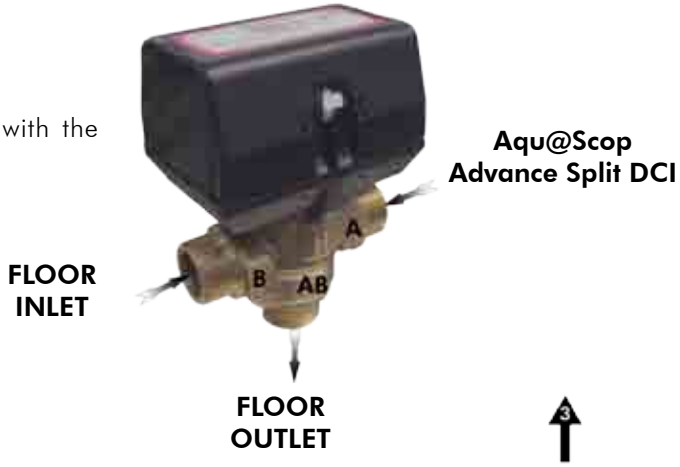


➢ Leave adequate free clearance to fit/remove the motor.

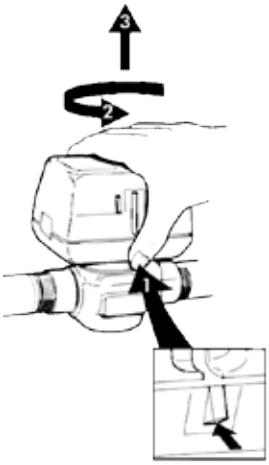
➢ The valve must be installed horizontally to the motor above the valve axis.



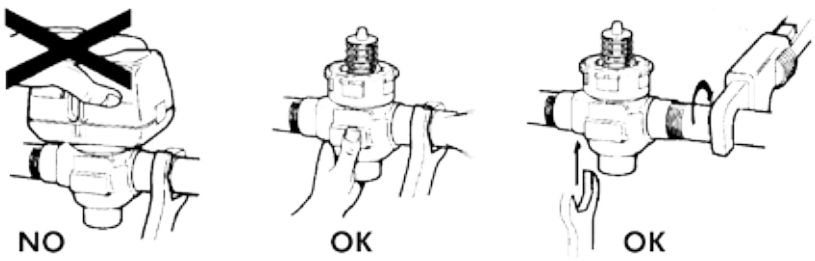
➢ Install the valve in accordance with the direction of water flow.



➢ Installation is easier if the valve motor is removed.



➢ Do not apply pressure on the motor during fitting/removal operations. On the contrary, use hand pressure to perform this tightening operation.



2.2. SZSFT OUTLET TEMPERATURE PROBE

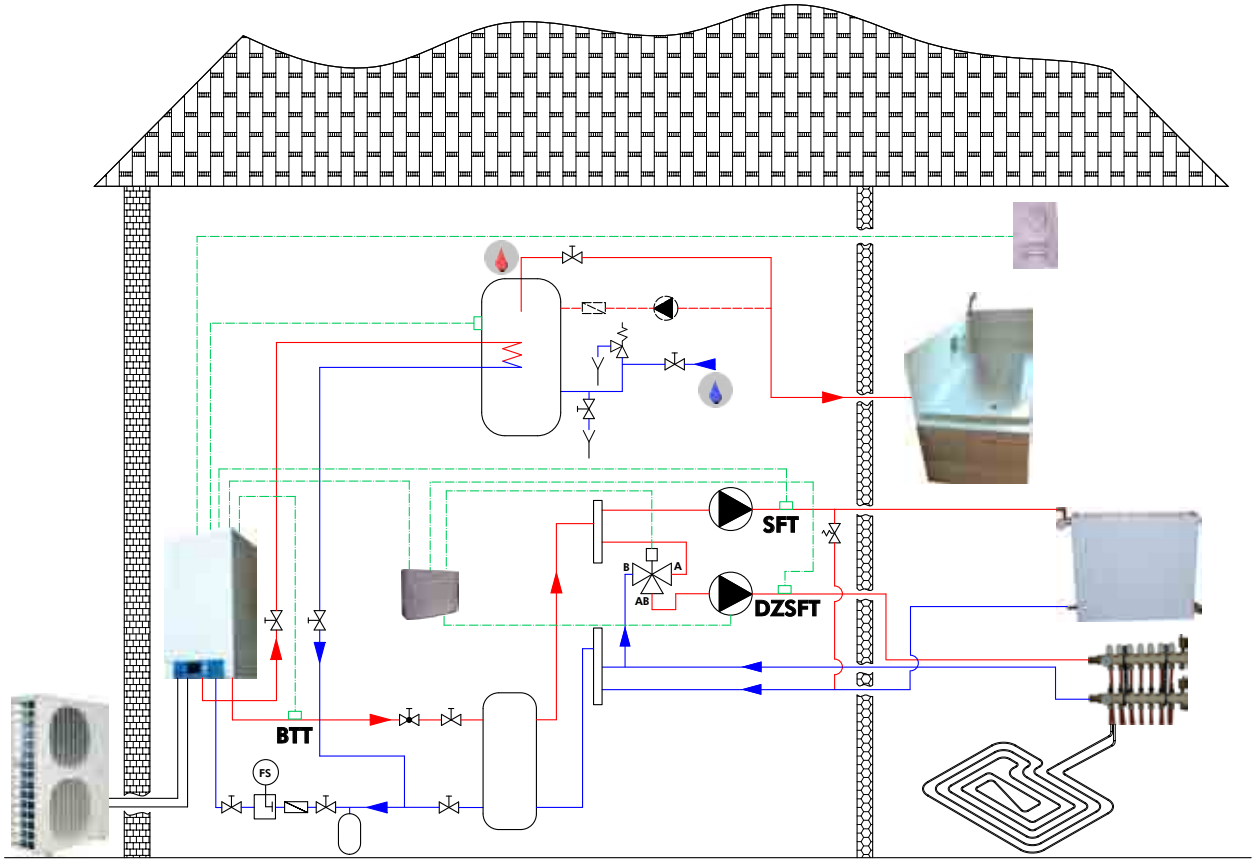
Fit the probe acting as the outlet probe **directly behind the low temperature circuit heating circuit pump**, in accordance with the direction of water flow through the heating water outlet pipe.

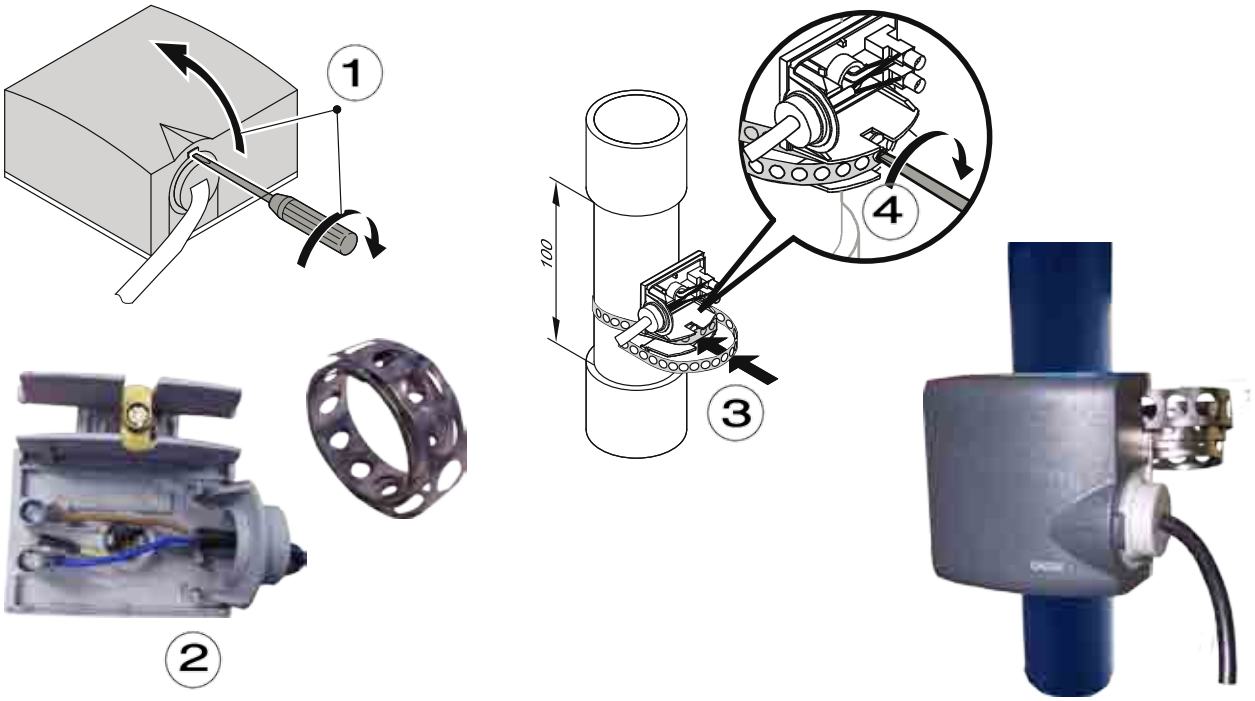
If synthetic material pipes are used, install the probe on a metal bridging pipe.

Clean the outlet/inlet pipe down to bare metal.

Heat conducting paste not required.

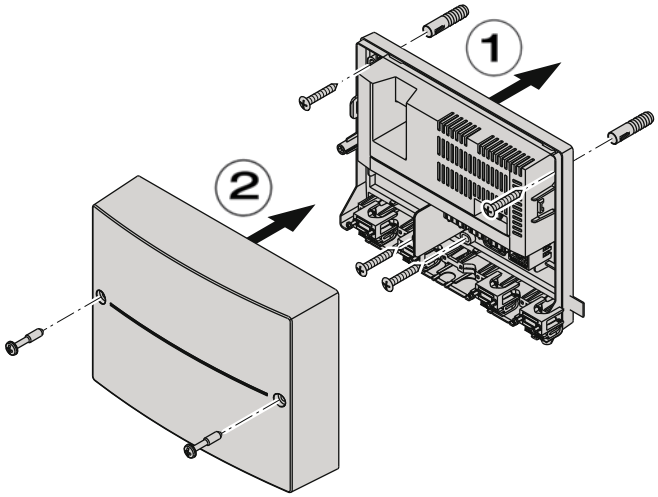
Do not insulate the probe.





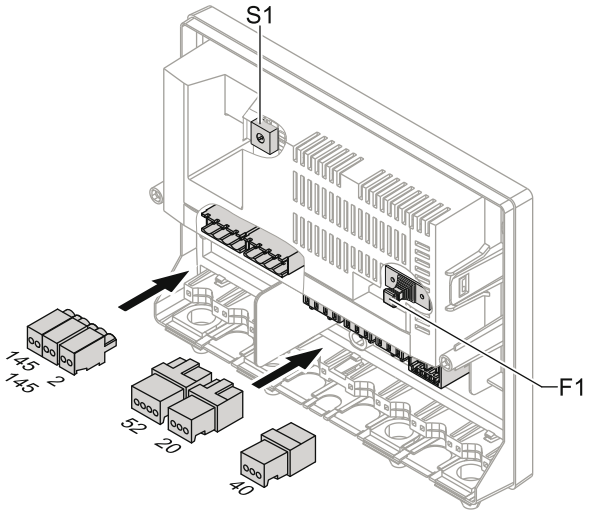
2.3. CONNECTION BOX

Attach the box to the wall.



2.4. ELECTRICAL CONNECTIONS

2.4.1. ELECTRICAL CONNECTIONS - GENERAL DIAGRAM



F1	Fuse
S1	Rotary switch

230 V¬ plug

20	Heating circuit pump (not supplied)
40	Mains power supply
52	Mixer valve servo-motor

Very Low Voltage connections

2	Outlet probe
145	BUS KM

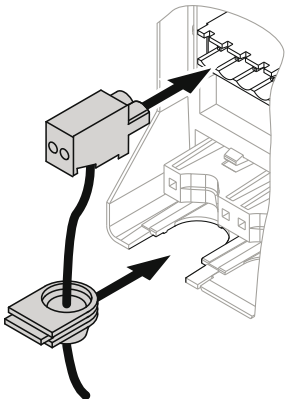
Warning
The electronic components can be damaged by electrostatic discharges.

Earth part of the system, such as the heating or water pipes, before commencing work in order to avoid any risk of electrostatic discharges.

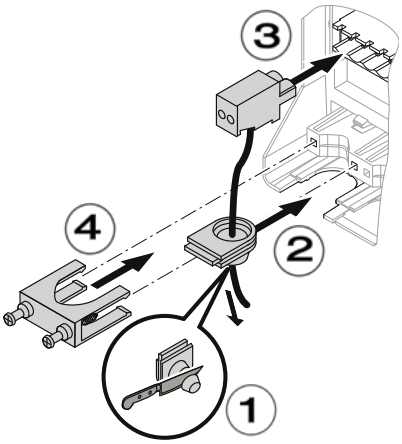
2.4.2. ROUTING THE CABLES

Open the motor assembly connection box. Block the unused openings with cable grommets (uncut).

Assembly 1
Cables with a moulded cable clamp (supplied).



Assembly 2
Cables to be provided on site.



2.4.3. DZSFT OUTLET PROBE

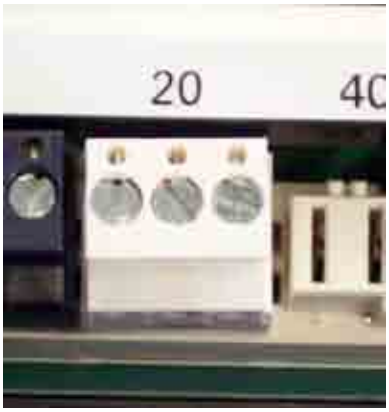
Electrical connection:

Insert plug **2** (outlet probe) into the motor assembly.

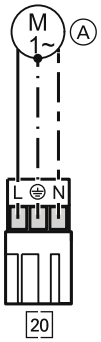
2.4.4. HEATING CIRCUIT PUMP

Comment

For under-floor heating circuits, a monitoring aquastat must be installed to limit the maximum under-floor heating temperature.



230 V Heating circuit pump



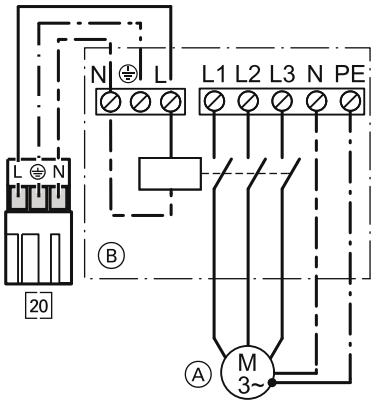
A Heating circuit pump

20 To the motor assembly

230 V Heating circuit pump technical data:

Nominal Amperage	2(1) A
Recommended connection cable	H05VV-F3G 0.75 mm^2 or H05RN-F3G 0.75mm^2

400 V Heating circuit pump
(Only for wall mounting)



A Heating circuit pump

B Relay

20 To the motor assembly

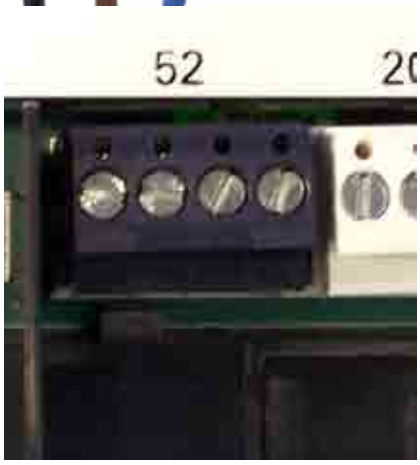
Relay technical data:

Nominal voltage	230V~
Nominal Amperage	2(1) A
Recommended connection cable	H05VV-F3G 0.75 mm² or H05RN-F3G 0.75mm²

2.4.5. MIXER VALVE

Connect:

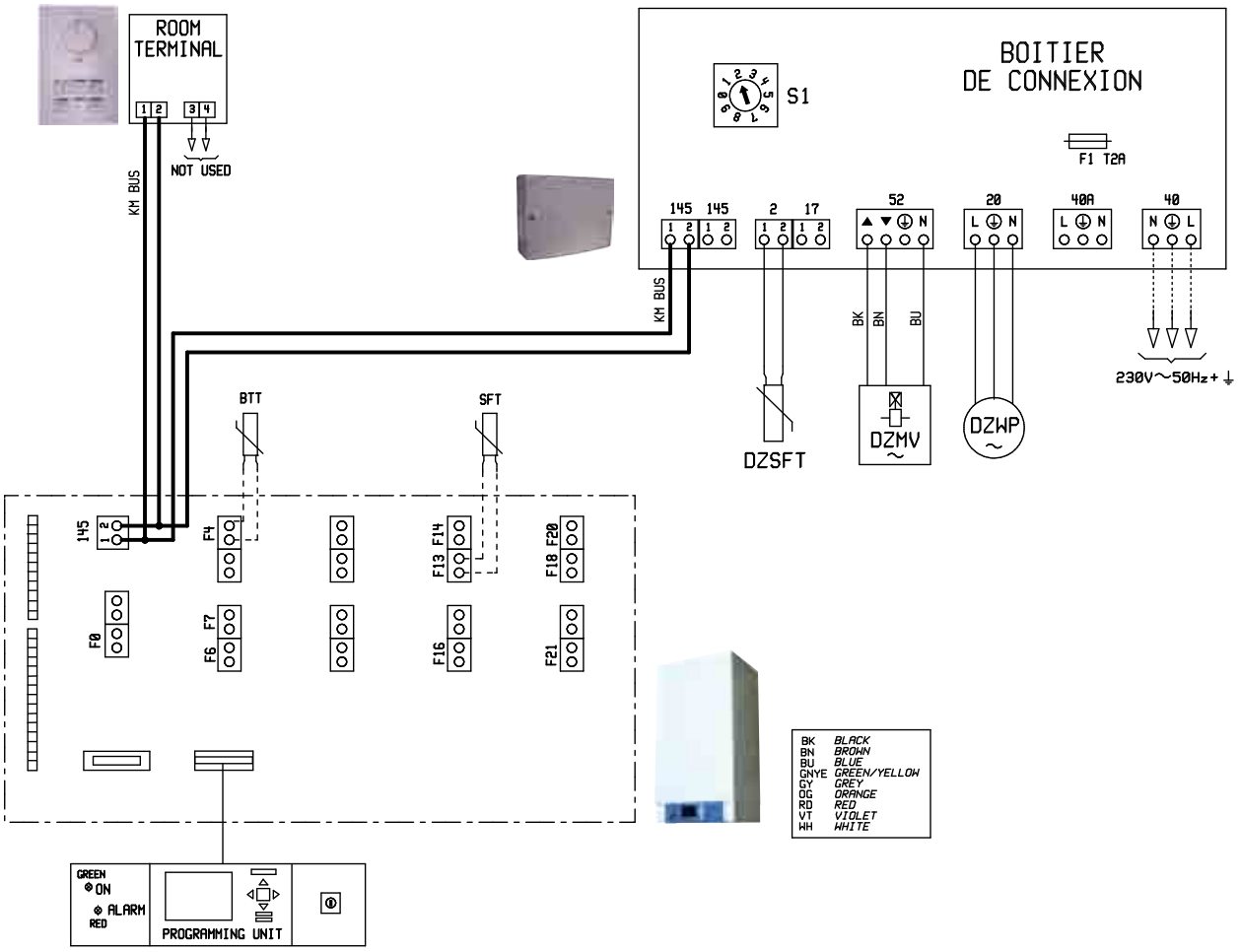
- ➢ The black wire to the ▲ symbol on terminal block 52
- ➢ The brown wire to the ▼ symbol on terminal block 52
- ➢ The blue wire to the **N** symbol on terminal block 52



Insert plug **52** into the motor assembly

2.4.6. CONNECT THE KM BUS

The mixer valve regulation module must be connected to the **Aqu@Scop Advance Split DCI** indoor unit via the KM BUS.



2.5. S1 ROTARY SWITCH SETTINGS

Heating circuit on which the mixer valve intervenes:	Pobes connected	Rotary switch position:
Heating circuit with M2 mixer valve	Outlet probe	"2" (factory default setting)

3. MAINS POWER SUPPLY

Danger
Non-compliant electrical installations can lead to personal injuries from electric shocks and damage to the appliance.

Connect the mains power supply and install the necessary electrical protection measures (e.g. differential circuit breaker) in accordance with the following regulations:

- Local electricity supplier's connection requirements.
- Protect the mains power cable with a 16 A max. fuse.

Danger
In the event of an electrical short, if the installation components are inadequately earthed they can cause serious injuries from electric shocks. The appliance and the pipes must be connected to the dwelling's earth network.

Cut-out switches for non-earthed cables.

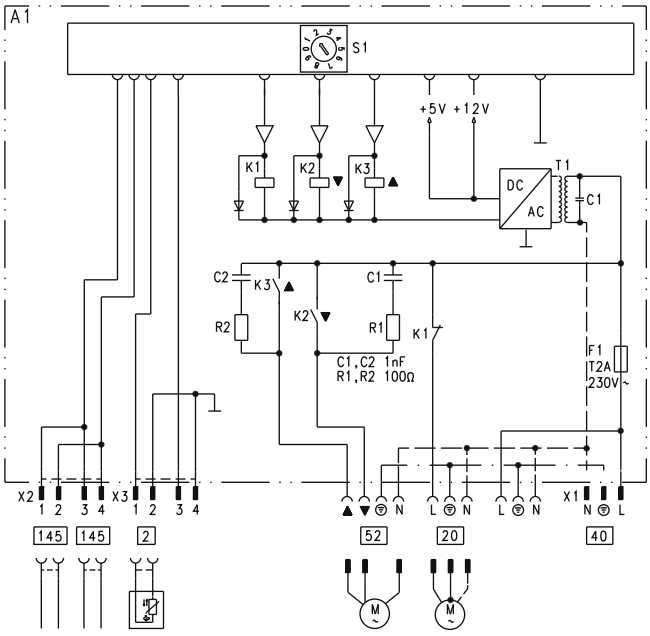
- The mains switch (if available) must simultaneously cut the mains supply to all non-earthed cables with a contact opening of at least 3 mm.
- If there is no mains switch on the circuit, all non-earthed cables must be isolated from the mains power supply by upstream cut-out switches with a contact opening of at least 3 mm.

Danger
Incorrect mains cable phase terminal allocation can cause serious injuries and major damage to the equipment. Do not invert the "L" and "N" wires.

Wiring colour codes in accordance with DIN/IEC 60757

L	BN	Brown
N	BU	blue
⏚	GN/YE	Yellow green

Warning
An incorrectly wired phase sequence can cause damage to the appliance. Ensure that the phases are connected in accordance with the regulation system's electricity supply.



A1 Base plate
F1 Fuse
S1 Rotary switch

Fiche 230 V¬

20 Heating circuit pump (not supplied)
40 Mains power supply
52 Mixer valve servo-motor

Very low voltage connections

2 Outlet probe
145 KM BUS

4. COMMISSIONING

4.1. FILLING / BLEEDING THE INSTALLATION

The manual control (mains power supply off) can only be activated when the valve is in the upper position. Valve channel A can be opened manually by applying firm pressure on the lever from the top towards the middle, and then by pressing it inwards. In this position, channels A and B are open. This manual position (50 %) can be used to fill or bleed the pipe network. The valve can be closed again by gently withdrawing the lever until it is completely released. The valve and the motor will return to their initial position when the mains power supply is re-established.

Comment

The valve opening and closing time is 120 seconds.

It is not necessary to remove the brass valve body when installing a new motor.

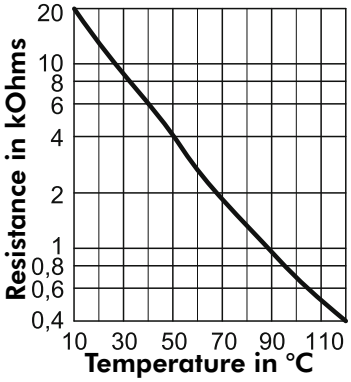
4.2. INSTALLATION CONFIGURATION

Configuring the parameters for a dual zone installation on the indoor unit regulator. Refer to the instructions in the installation and maintenance manual supplied with the indoor unit.

5. TECHNICAL DATA

Nominal voltage	230 V~
Nominal frequency	50 Hz
Nominal amperage	2 A
Absorbed capacity	
✔ Wall mounting	1,5 W
Protection category	I
Protection index	IP 32 D accordance with EN 60 529, to be guaranteed by assembly/installation
Temperature range	
✔ Operating	0 to +40 °C
✔ Storage and transport	-20 to +65 °C
Output relay nominal load	
✔ Heating circuit pump **20**	2 (1) A 230 V~

DZSFT outlet probe response curve



AIRWELL INDUSTRIE FRANCE
Route de Verneuil
27570 Tillières-sur-Avre
FRANCE
✆ : +33 (0)2 32 60 61 00
🖷 : +33 (0)2 32 32 55 13