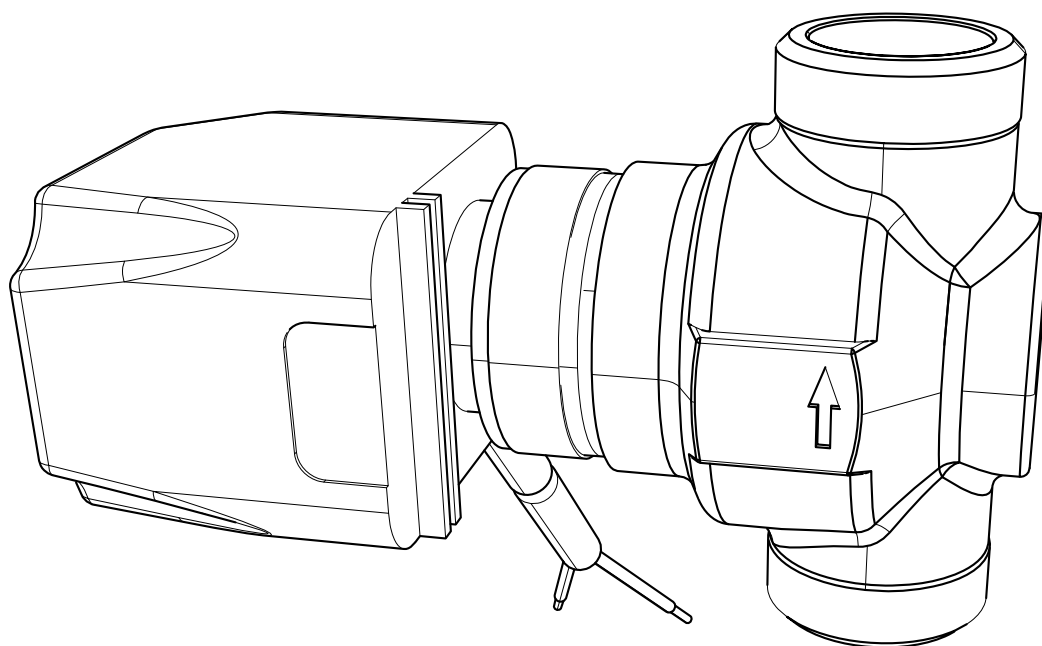


VCF25C VCF25H

Kit valvola 2 Vie
2-way valve kit
Kit de vanne 2 voies
2-Wege-Ventil-Zurüstsatz
Kit válvula de 2 vías



230V ~ 50Hz



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5 6 7 1 7 5 0 _ 0 0



AVCF25UJ 1105 - 5671750_00

DESCRIPTION

VCF25C is a kit made up from an isolated 2-way valve, electrothermic actuator and relative hydraulic fittings. It is suitable for installation on VED fan coils with connections both on the right and the left. It is an all or nothing normally closed valve with G 3/4" Male fittings with flat stroke, powered at 230V~50Hz. The valve can be controlled from the control panels (accessories), enabled at the valves control function. Before selection, consult the features of the control panels. The VCF25C kit must be installed on the main stroke and is compatible with the VED sizes:

VED430, VED432, VED440, VED441, VED530, VED532, VED540, VED541

VED630, VED632, VED640, VED641, VED730, VED732 VED740, VED741

VCF25H is a kit made up from a 2-way valve, electrothermic actuator and relative hydraulic fittings. It is suitable for installation on VED fan coils with connections both on the right and the left. It is an all or nothing normally closed valve with G 3/4" Male fittings with flat stroke, powered at 230V~50Hz. The valve can be controlled from the control panels (accessories), enabled at the valves control function. Before selection, consult the features of the control panels. The VCF25H kit must be installed on the heating secondary coil only and is compatible with the VED sizes:

VED432, VED441, VED532, VED541

VED632, VED641, VED732 VED741

COMPONENTS OF THE VCF25C KIT: COMPONENTS OF THE VCF25H KIT:

- N° 1 2-way valve
- N° 1 Electrothermic actuator
- N° 1 Connection pipe
- N° 1 Flat Gasket
- N° 1 O-Ring Gasket
- N° 1 Isolating shell
- N° 2 Self-locking straps
- N° 1 2-way valve
- N° 1 Electrothermic actuator
- N° 1 Connection pipe
- N° 1 Flat Gasket
- N° 1 O-Ring Gasket

DECLARATION OF CONFORMITY

Refer to the Ved unit Declaration of Conformity.

TECHNICAL SPECIFICATIONS

Electric power supply:	230V (±10%)~ 50Hz
Current initial peak:	0.25A x 0.5s
Input power in normal conditions:	2.5W
Water temperature range:	4°C ÷ 80°C
Liquids used	water (with glycol ≤ 50%)
Opening initial time:	90s
Opening final time:	180s
Maximum work pressure applied at the fan coils:	800kPa
Functioning environmental conditions temperature:	0°C ÷ 40°C
Storage environmental conditions temperature:	-25°C ÷ 60°C
Protection rating of the electrothermic actuator:	IP44
Protection class of the electrothermic actuator:	Class II
Electrothermic actuator with threaded locknut:	M30 x 1.5

Power supply cable: L= 2200mm 2 x 0.75mm²

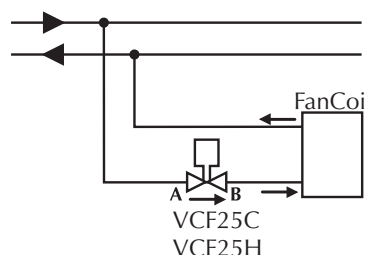
model	VCF25C	VCF25H
Valve Body		
Connections	Male G 3/4"	Male G 3/4"
Seal	Flat	Flat
Connection pipe		
Valve Side		
Connections	Female G 3/4"	Female G 3/4"
Seal	Flat	Flat
Unit Side		
Connections	Male G 3/4"	Male G 1/2"
Seal	O-Ring	O-Ring
Pressure drop		
Kvs A - B	4	4

CALCULATION OF THE PRESSURE DROP

$$\Delta p = \left(\frac{10 q}{Kvs} \right)^2 \quad \Delta p \text{ [kPa]} = \text{Pressure drop}$$

$q \text{ [m}^3/\text{h]} = \text{Water flow rate}$

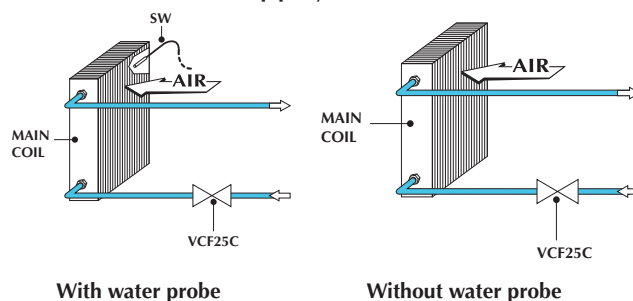
VALVE ASSEMBLY LAYOUT



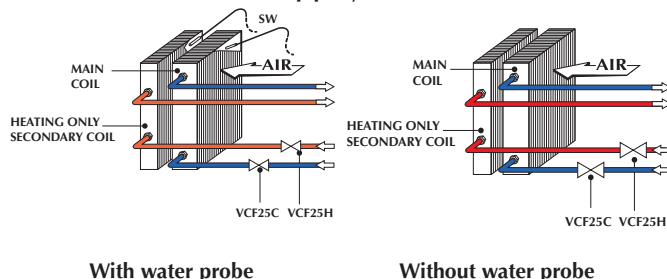
⚠ The valve A-B route is closed with electrothermic actuator not powered and the actuator indicator is red. The valve A-B route is open with electrothermic actuator powered and the actuator indicator is black.

SYSTEM EXAMPLES

2-pipe system



4-pipe system



Key:
SW Water temperature probe (ACCESSORY)
VCF25C Main coil 2-way valve
VCF25H Heating only secondary coil 2-way valve

⚠ The water temperature probe accessory (SW) is not supplied with the valve kit. If the water probe is present in the system, the correct position is in the coil.

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

⚠ ATTENTION: the electric connections, installation of the fan coils and their accessories must only be performed by subjects with the technical-professional requisites for installation, transformation, extension and maintenance of the systems and able to check the same for safety and functionality purposes.

In particular, for the electric connections, checks relative to the following are requested:

- Measurement of the electric plant isolation resistance.
- Continuity test of the protection wires.

Before carrying out any work, wear the appropriate individual protection devices.

Before installation of the valve accessory kit, consult the VED fan coil installation manual. The installer must set-up the hydraulic and electric plants and make the fittings with the unit perfectly.

Installation must be performed according to that illustrated in the figures shown.

⚠ ATTENTION! During installation, pay attention to the direction of flow. Before assembly of the valve, check the direction of assembly with reference to the raised symbol on the valve body.

INSTALLATION

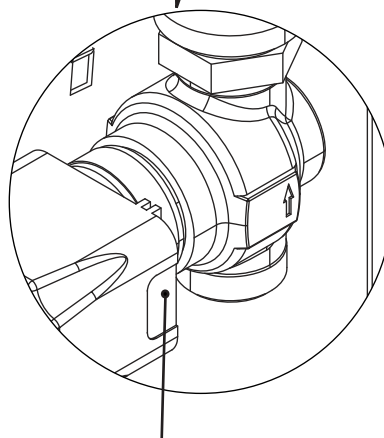
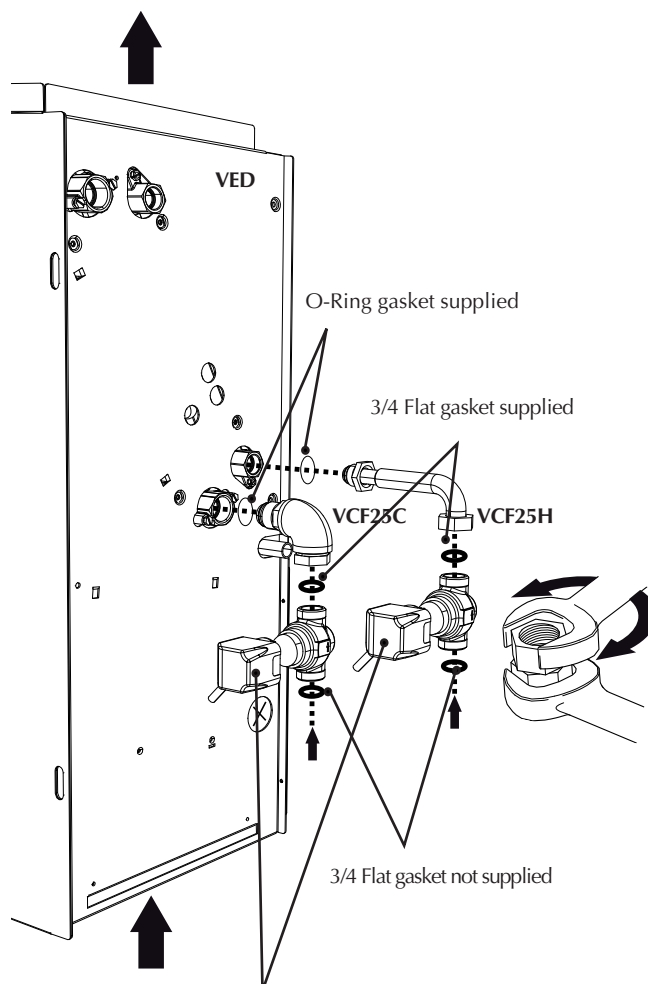
- Assemble the connection pipe supplied with the valve body. Sealing is guaranteed by the 3/4" flat gasket (Coupling torque 25÷50Nm).
- Assemble the valve body with connection pipe to the fan coil. Sealing is guaranteed by the O-Ring gasket supplied.
- Remove any protection cap or handwheel from the valve body.
- **Manually** tighten the electrothermic actuator locknut onto the valve body, in a way that the actuator indicator faces outwards.
- In the VCF25C model, fix the isolating shell to the valve body using the two straps supplied. Complete the insulation of the valve, any gaskets and pipes that are exposed. Insulation is particularly important in the cold water circuits in order to prevent the formation of condensate and any dripping.
- Insert the electrothermic actuator power supply cable into the relevant fairlead present on the side of the fan coil. Pass through the ventilation compartment, fixing the cable onto the relevant augers cable block hooks. Exit from the other side through the relevant fairlead.

Electric connections

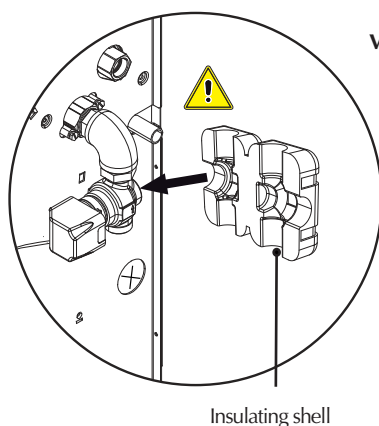
Connect the valve electric cable to the unit terminal board or on the control panel as indicated in the wiring diagrams present in the manuals relative to the fan coils or the control panels.

System side hydraulic connections

Make the hydraulic connections (system side) directly onto the valve using 3/4" flat seal gaskets.

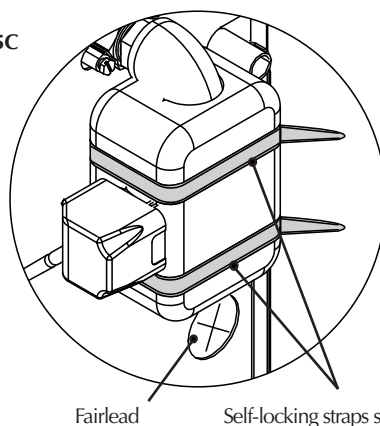


Indicator: Red = Actuator not powered
Black = Actuator powered



Insulating shell

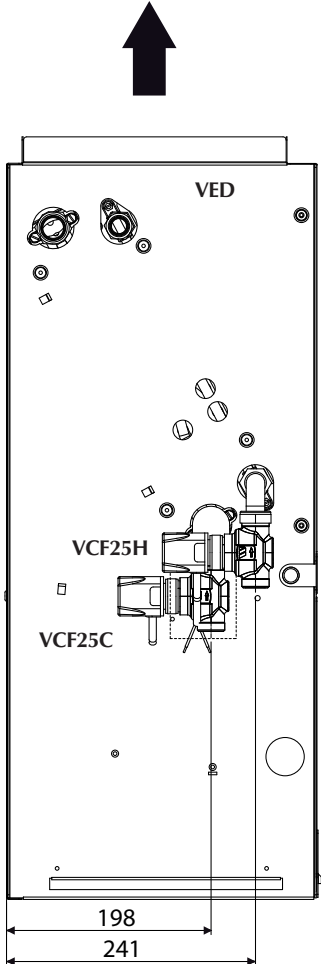
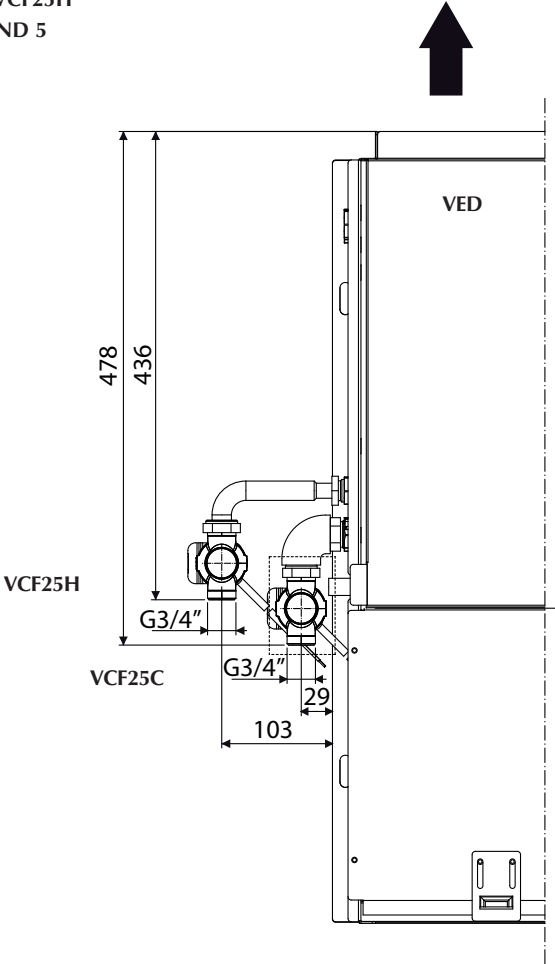
VCF25C



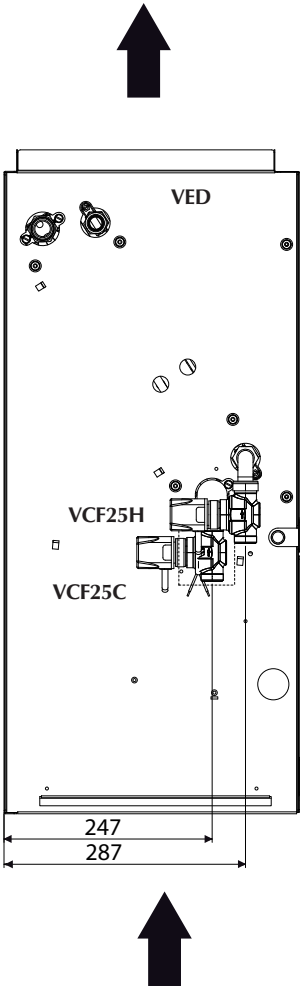
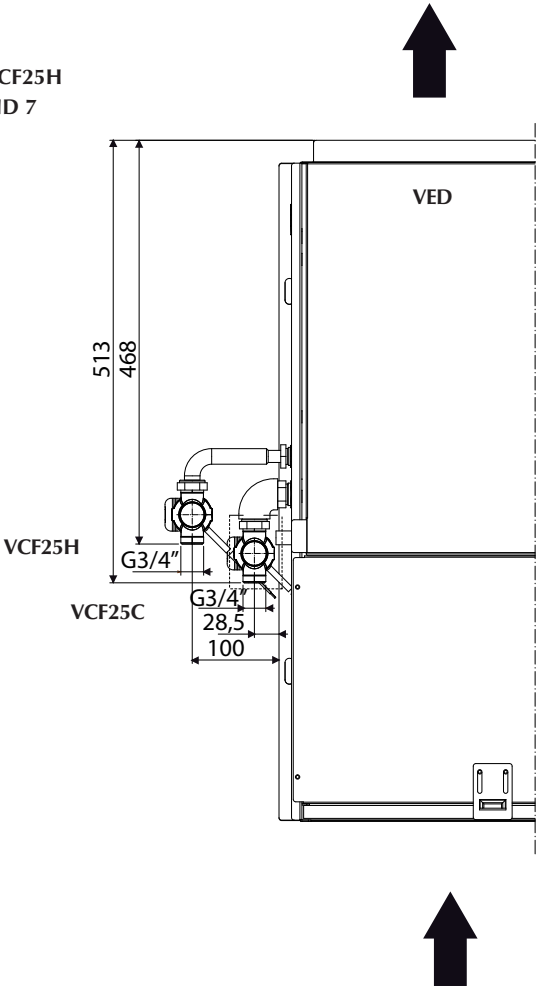
Fairlead

Self-locking straps supplied

VCF25C and VCF25H
FOR VED 4 AND 5



VCF25C and VCF25H
FOR VED 6 AND 7



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