

1.1 Adjustment of the inverter of the user-side pump

The adjustment made by the inverter on the pump is to obtain pump operation at a constant flow rate or pressure. The two adjustments are alternative to each other.

The inverter installed in the unit is already factory preset for the required type of adjustment.

It is however necessary to complete the calibration according to the specific requirements of the system by following the instructions given below.

The parameters are edited using the keypad present on the inverter.



Fig. 1 Inverter keypad

1.2 Adjustment for constant water flow rate "Flowzer VP"

If the constant water flow rate to the system is to be adjusted through adjustment of the speed of the pump present in the unit, the inverter that controls it must be suitably adjusted.

The inverter installed in the unit is already factory preset to operate at a constant flow rate.

The frequency set at 50 Hz at the factory must be reduced until the desired flow rate is obtained.



When working manually with the inverter, care must be taken to avoid reducing the water flow rate to below the minimum value allowed for the unit.



For free cooling units, set the frequency value with and without free cooling active and then with and without the head losses of the free cooling coil.

For free cooling units with decoupling exchanger (FC/NG) where the head losses do not change, only one value is set.



Do not set the water flow rate outside the operating limits allowed in the technical booklet.

1.3 Adjustment for constant water flow rate "Flowzer VP"

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1.3.1 Setting the values

To set the values:

1. press "Menu", go to "Parameters" using the arrow buttons and confirm with "Select";
2. in the "Parameters" menu, select "Complete List" using the arrow buttons and confirm with "Select";
3. using the arrow buttons, select group "28" and confirm with "Select";
4. using the arrow buttons, select parameter "28.26" and confirm with "Edit";
5. using the arrow buttons, set the desired frequency value "1" and confirm with "Save";
6. to exit the settings, press the "back" and "exit" button 3 times.

1.3.2 Setting the values for free cooling units

Carry out the following settings without the free cooling active:

7. press "Menu", go to "Parameters" using the arrow buttons and confirm with "Select";
8. in the "Parameters" menu, select "Complete List" using the arrow buttons and confirm with "Select";
9. using the arrow buttons, select group "28" and confirm with "Select";
10. using the arrow buttons, select parameter "28.26" and confirm with "Edit";
11. using the arrow buttons, set the desired frequency value "1" and confirm with "Save";



Now activate the free cooling by manually operating the 3-way valve and the free cooling relay present in the electrical control panel.

Resume the setting with the free cooling active and:

12. using the arrow buttons, select parameter "28.27" and confirm with "Edit";
13. using the arrow buttons, set the desired frequency value "2" and confirm with "Save";
14. to exit the settings, press the "back" and "exit" button 3 times.

Once the settings are completed, the inverter will automatically adjust the flow rate to the set speeds with activation and deactivation of free cooling operation.

1.4 Adjustment for constant water pressure "Flowzer VD"

If the constant water pressure to the system is to be adjusted through adjustment of the speed of the pump present in the unit, the inverter that controls it must be suitably adjusted.

The inverter installed in the unit is already factory preset to operate at constant pressure.

The factory-set default pressure must be changed to the desired pressure.



When setting the required pressure value for the system, make sure that, with the highest number of users closed, the water flow rate is in any case above the lowest valued allowed for the unit.



Do not set the water flow rate outside the operating limits allowed in the technical booklet.

1.4.1 Setting the desired pressure

To set the desired pressure:

1. press "Menu", go to "Parameters" using the arrow buttons and confirm with "Select";
2. in the "Parameters" menu, select "Complete List" using the arrow buttons and confirm with "Select";
3. using the arrow buttons, select group "40" and confirm with "Select";
4. using the arrow buttons, select parameter "40.21" and confirm with "Edit";
5. using the arrow buttons, set the desired pressure value and confirm with "Save";
6. to exit the settings, press the "back" and "exit" button 3 times.