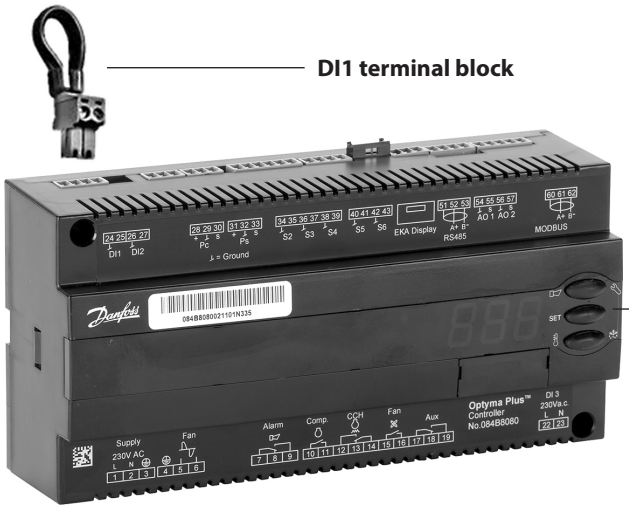
ENGINEERING
TOMORROW

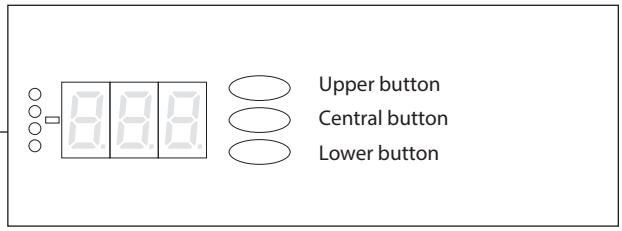
Installation Guide

Optyma™ Plus
Control unit (mounted code 084B8080)



Caution:
The information contained herein is a summary of the instructions available in the Danfoss documentation. For further information, please consult the user guide or other documents provided with the condensing unit.

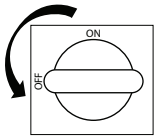




The upper and lower buttons are used to navigate the menu and change the values, while the central button lets you access the parameters and confirm the value.

Step 1 - Removing the DI1 terminal block

1.1



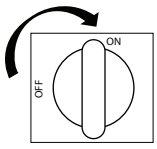
If the condensing unit is powered up, cut off the power supply using the switch.

1.2



Remove the DI1 terminal block.
This is the external stop start hard wired link for the controller & will stop the compressor from running. You can access the controller by opening the hinged door of the unit & then removing two screws on the cover plate that covers the controller terminals.

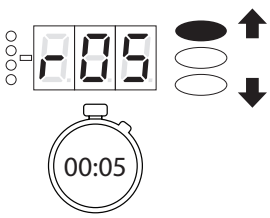
1.3



Power the unit back on by turning the switch.

Step 2 - Settings mode

2.1



Press the upper button for 5 seconds: **r05** will appear.

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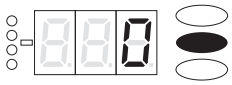
Step 3 - Deactivating the control unit functionalities

3.1



Use the upper and lower buttons to scroll through the parameters.
Select the parameter **r12** and press the central button to confirm.

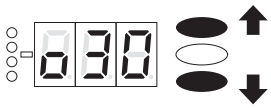
3.2



Set the value to **0**: the control unit is then deactivated.
Confirm your selection using the central button.

Step 4 - Selecting the refrigerant

4.1



Scroll through parameters and select parameter **o30**, press the central button to confirm.

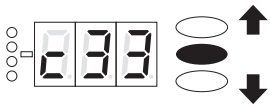
4.2

Fluid	Parameter	Fluid	Parameter
R134a	3	R448A	40
R507A	17	R449A	41
R404A	19	R452A	42
R407A	21	R454C	51
R407F	37	R455A	52
R513A	36		

Enter the value corresponding to your refrigerant and confirm your selection using the central button.

Step 5 - Set condensing unit type

5.1



Scroll through parameters and select parameter **c33**.

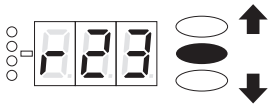
5.2



Set the pump down cut-out value. The average for R513A is **0.9** bar for scroll compressors. This value depends on the type of application and refrigerant.
Confirm your selection with the central button.

If you have an Optyma™ Plus INVERTER

5.1



If you have an Optyma™ Plus INVERTER, set the evaporating pressure setting with parameter **r23**.

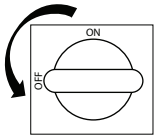
5.2



This parameter is based on the evaporation temperature (dew point).
For example, if the evaporation temperature is -10 °C, set this value to **-10**.

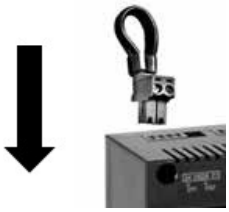
Step 6 - Activating the control unit functionalities

6.1



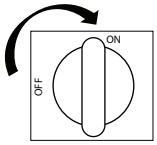
Cut off the power supply using the switch.

6.2



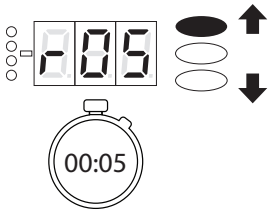
Connect the terminal block DI1.

6.3



Power the unit back on via the switch.

6.4



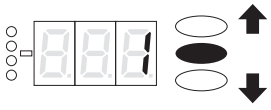
Press the upper button for 5 seconds: **r05** will appear.

6.5



Use the upper and lower buttons to scroll through the parameters.
Select the parameter **r12** and press the central button to confirm.

6.6



Set the value to **1**: the control unit is then activated. Confirm your selection using the central button. The condensing unit is ready to start.

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