



# Method Statement

for

## AIR TO WATER HEAT PUMP – CAREL CONTROLLER FIRMWARE UPGRADE AND FACTORY RESET

### Issue Record

REV	DATE	DESCRIPTION	PREPARED	REVIEWED	REF
0	2023-01-19	Issued for Approval	DAPHNE GARNEAU	ROGER ABDO	MS-HP-02



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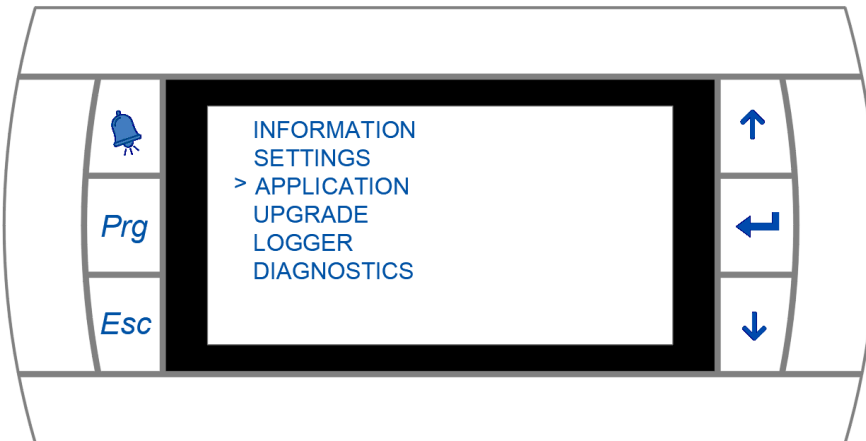


## Scope of Work




This method statement covers the factory reset and firmware upgrade of HSS030V2LM, HSS060V2LM, HSS080V2LM, HSS030V2LS, HSS060V2LS, HSS080V2LS models (Split and Monoblock).

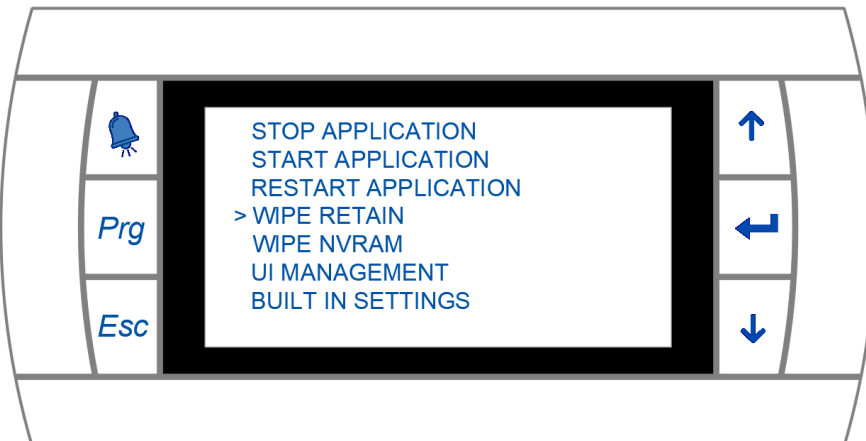
## Factory Reset

Factory reset will restore all controller settings to default factory values. All customized settings will be permanently deleted.




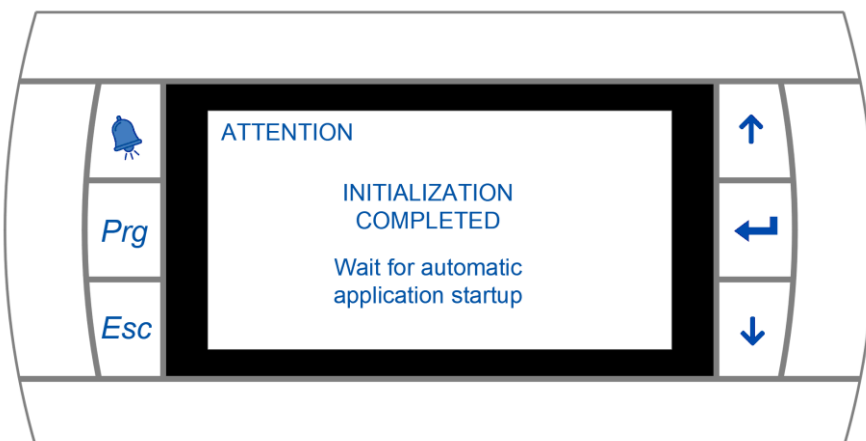
### Step 1:

Press both  and  at the same time. Move cursor to application and press the enter  button to confirm selection.



### Step 2:

Move cursor to "WIPE RETAIN" and press the enter  button. Factory reset is initiated.



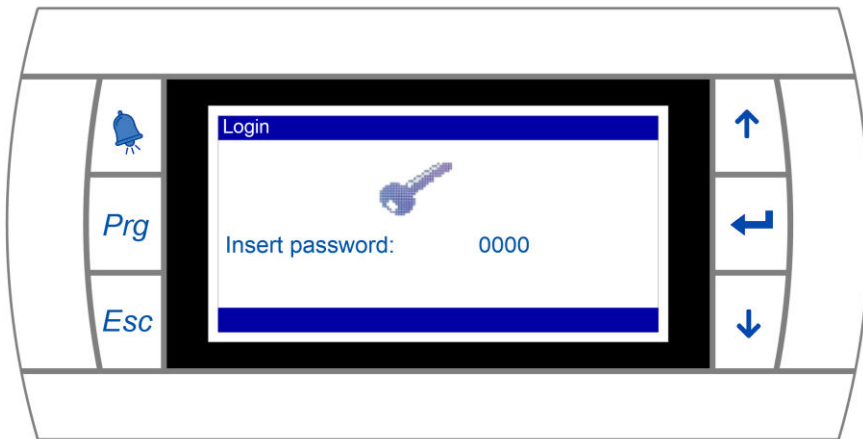
### Step 3:

When reset is completed, controller screen will show "Initialization completed" message.




**Step 4:**

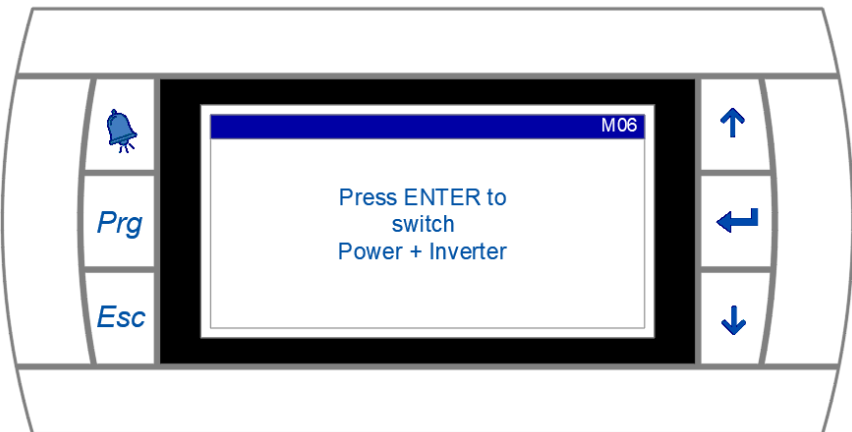
After reset is completed, controller will ask user to confirm language settings.






**Step 5:**

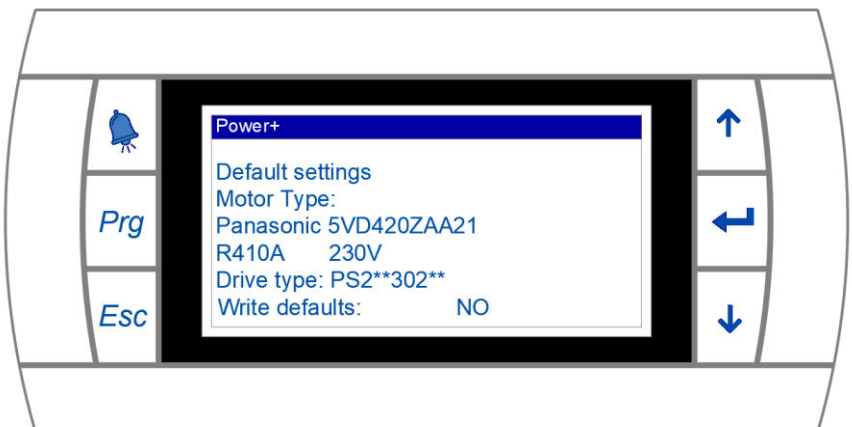
Press the “Prg” program button.

Enter password (*password must be obtained from local distributor*) and then press the enter  button.





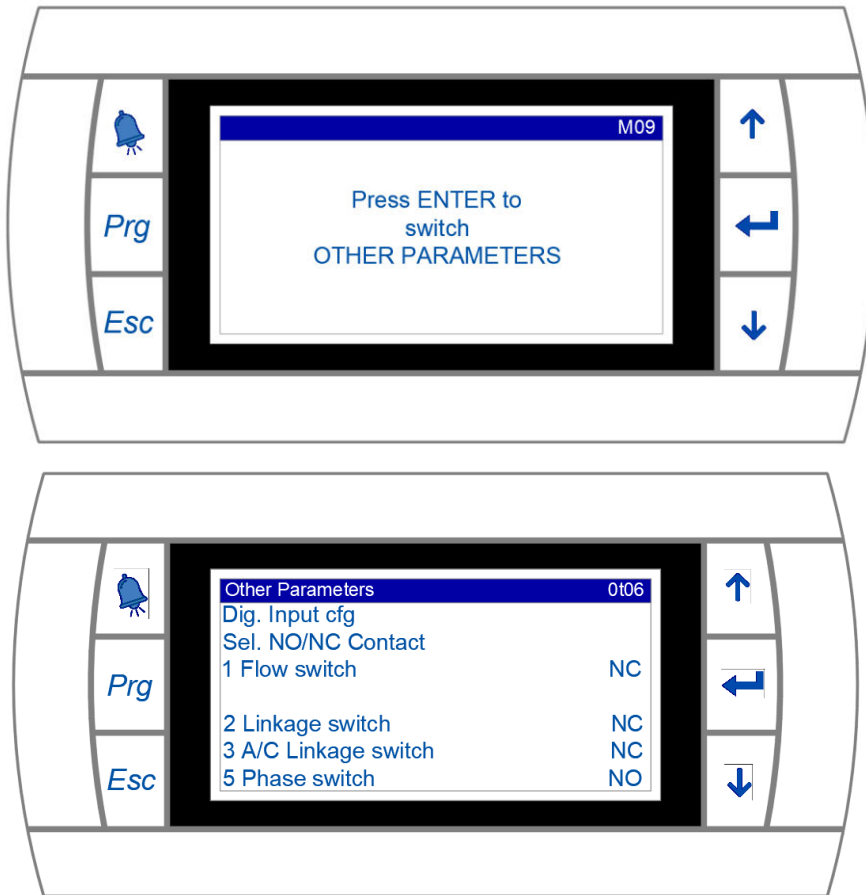
**Step 6:**

With the up  and down  arrows, scroll down to M06 Menu and then press the enter  button.



**Step 7:**

With the up  and down  arrows, scroll down to “Write Defaults” line and then change “NO” to “YES” with the same arrows, then press “Esc” button to confirm selection.



**Step 8:**

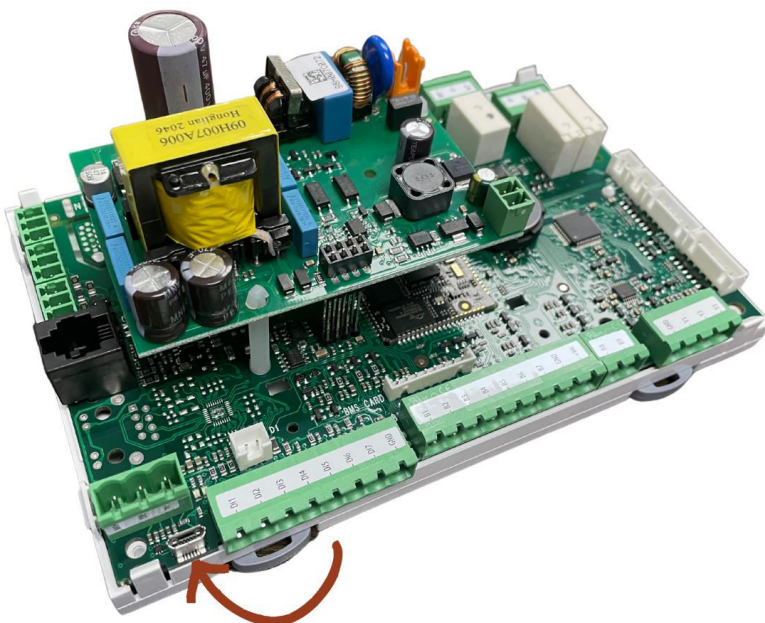
With the up and down arrows, go to M09 Menu screen and press the enter button.

**Step 8:**

With the up and down arrows, go to 0t06 Sub-Menu screen and press the enter button until you reach A/C Linkage Switch Settings. Change from “NC” to “NO” and then press “Esc” button.

**Software/Firmware Upgrade**

To upgrade Heat Pump Carel Controller Firmware, first connect heat pump to power while keeping machine switched off.

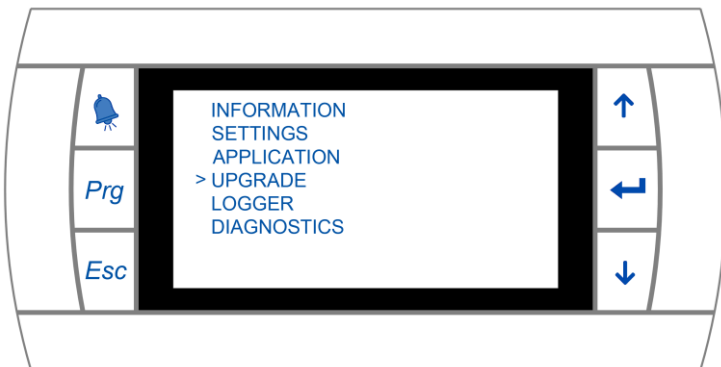
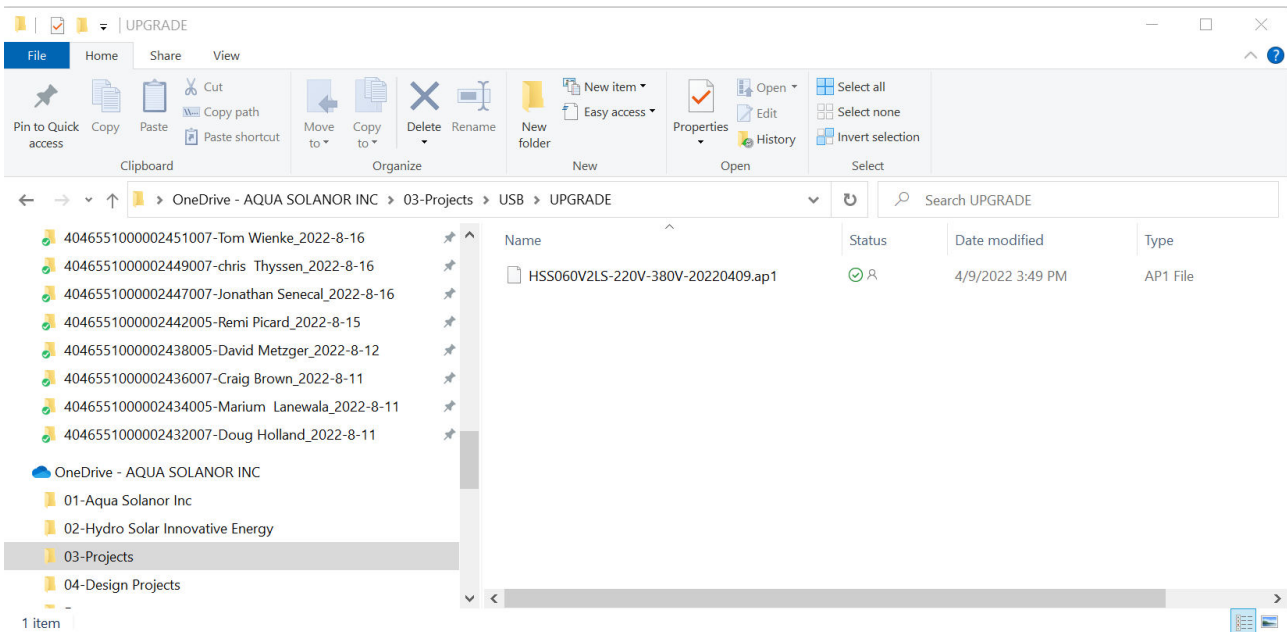
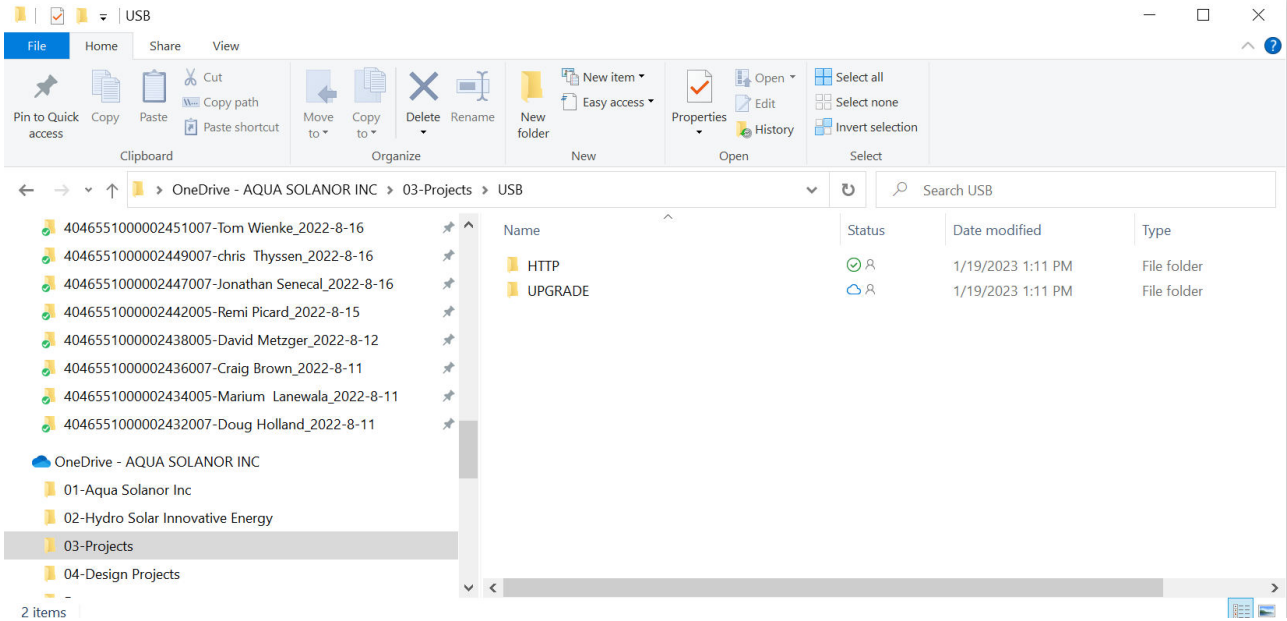


**Step 1:**

With a micro-USB cable, connect the Carel controller main board to a computer.




Carel controller memory is accessible, via computer, like any other USB memory card.

Open USB main folder, go to the UPGRADE sub-folder. A file with \*.ap1 extension should be present.



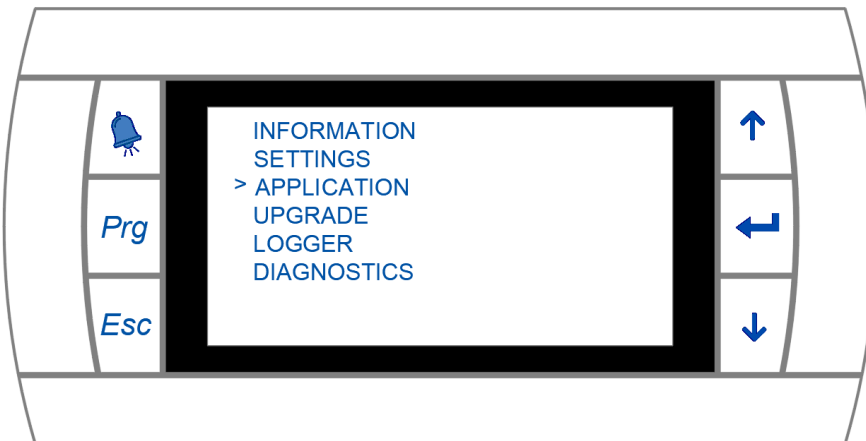
**Step 2:**

Delete existing ap1 file and replace it with the up-to-date firmware file. Rename new file in “UPGRADE” folder to Autorun.ap1, press enter, then unplug the micro-USB cable from computer and Heat Pump Carel control board. After few seconds, automatic upgrade will start which will require around 20-25minutes.




**N.B:** If upgrade does not start automatically, Press both  and  at the same time. Move cursor to UPGRADE and press the enter  button to confirm choice.

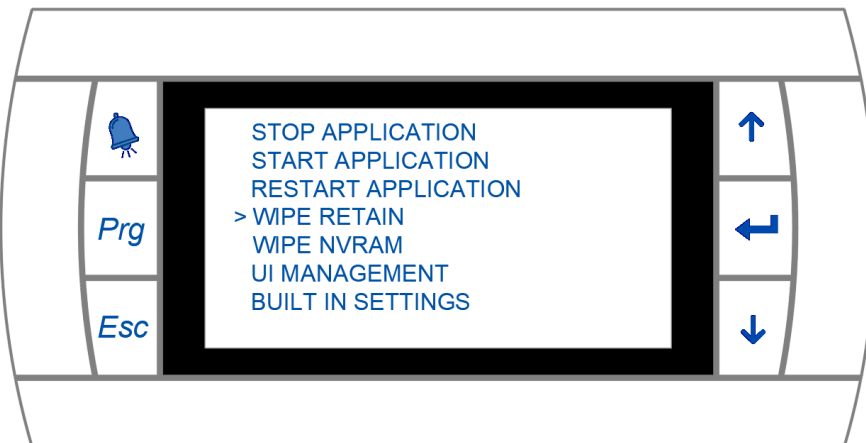


Once upgrade is completed, do the following steps:




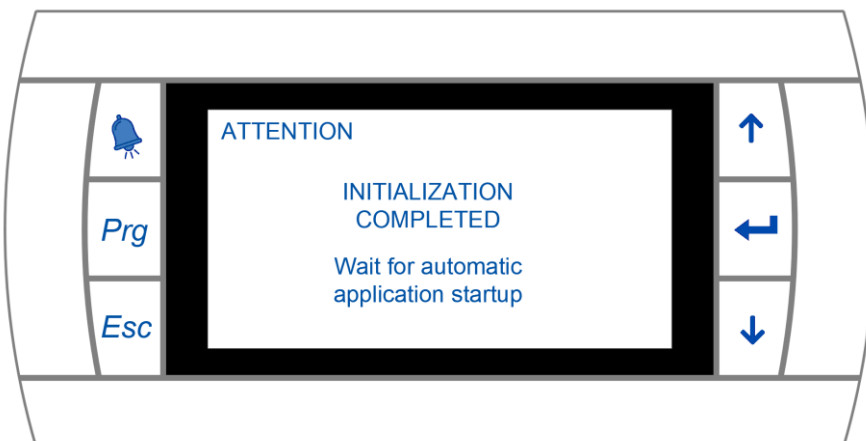
**Step 3:**

Press both  and  at the same time. Move cursor to application and press the enter  button to confirm selection.



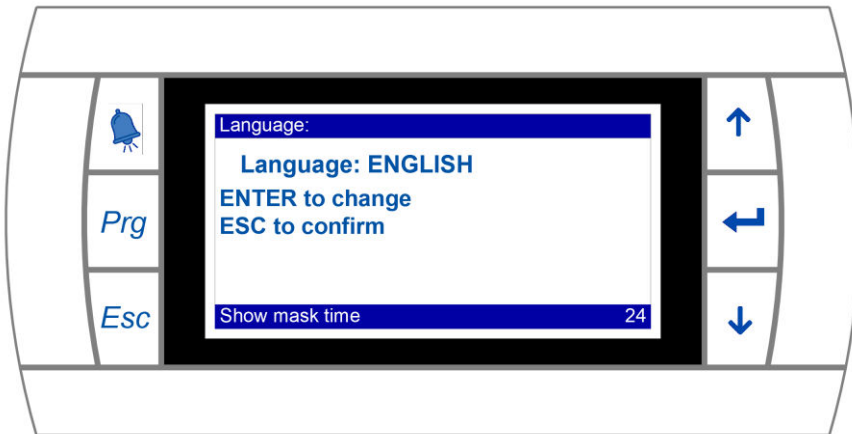
**Step 4:**

Move cursor to "WIPE RETAIN" and press the enter  button. Factory reset is initiated.



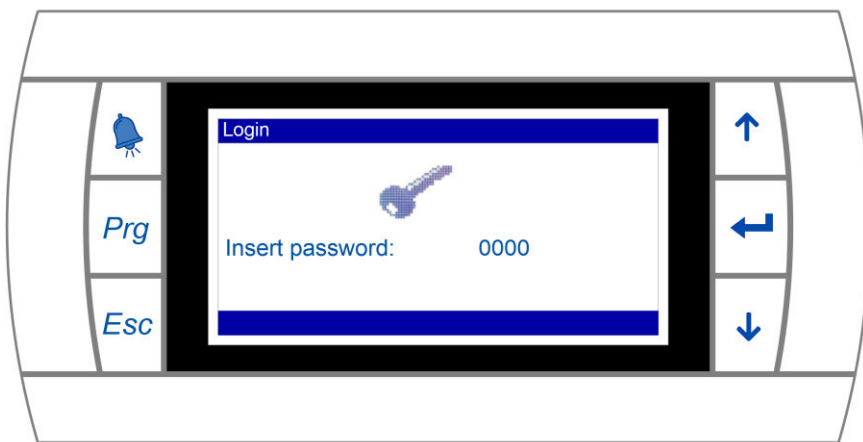
**Step 5:**

When reset is completed, controller screen will show "Initialization completed" message.




**Step 6:**

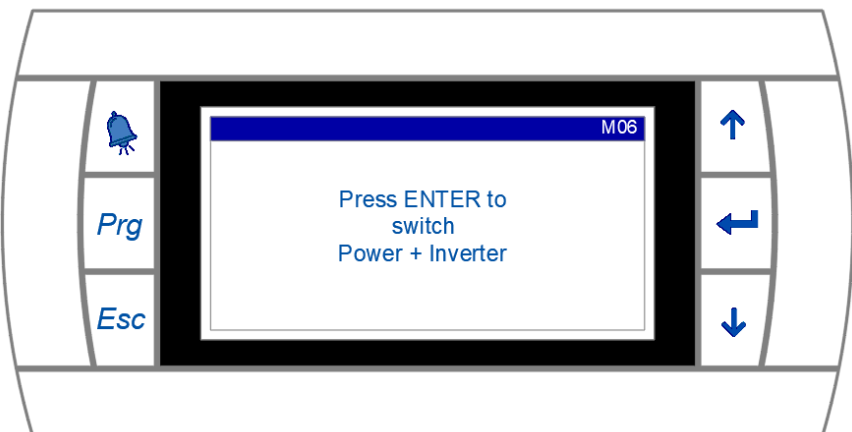
After reset is completed, controller will ask user to confirm language settings.






**Step 7:**

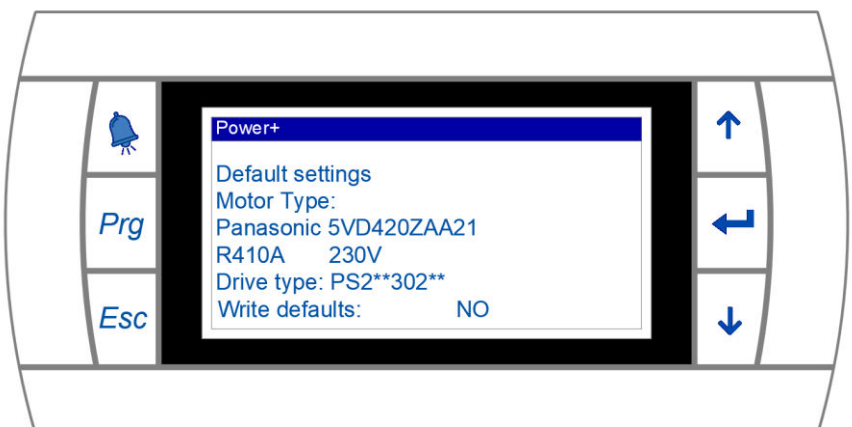
Press the “Prg” program button.

Enter password (*password must be obtained from local distributor*) and then press the enter  button.





**Step 8:**

With the up  and down  arrows, scroll down to M06 Menu and then press the enter  button.

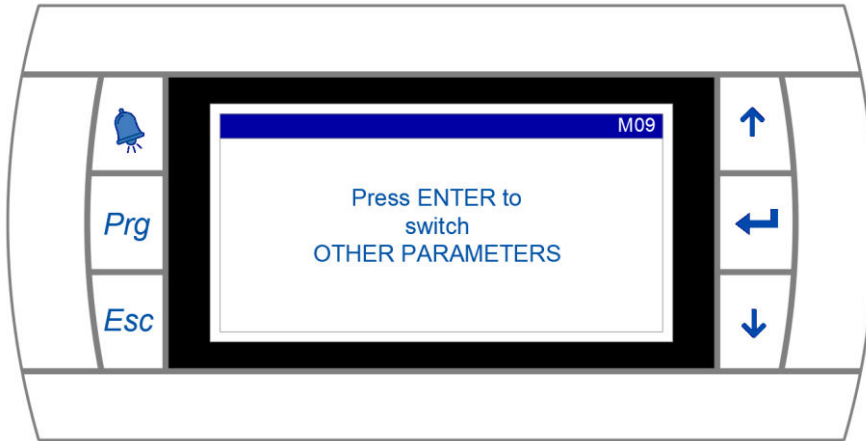


**Step 9:**




With the up  and down  arrows, scroll down to “Motor Type” and select the compressor model as follows:  
for HSS030V2LS select H240D5KZAAJ2, HSS060V2LS select H420D5VZAAJ2, HSS080V2LS select H550D5VZAAJ2.

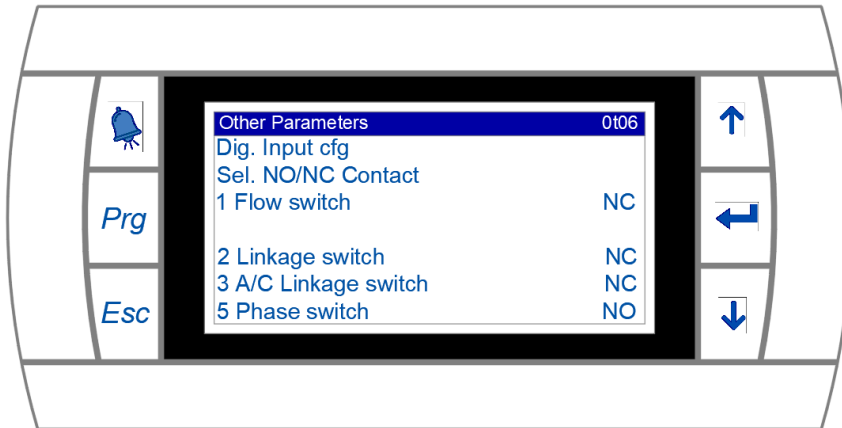
Scroll down to “Write Defaults” line and then change “NO” to “YES” with the same arrows, then press “Esc” button.








**Step 10:**

With the up  and down  arrows, go to M09 Menu screen and press the enter  button.



**Step 11:**

With the up  and down  arrows, go to 0t06 Sub-Menu screen and press the enter  button until you reach A/C Linkage Switch Settings. Change from "NC" to "NO" and then press "Esc" button.