



## Technical Specifications

# Pegasus “Neptune” Multifunction Whirlpool Control System

Doc N. **PV/Gelpad/3F**

Rev. **1**

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# 1. Hardware description

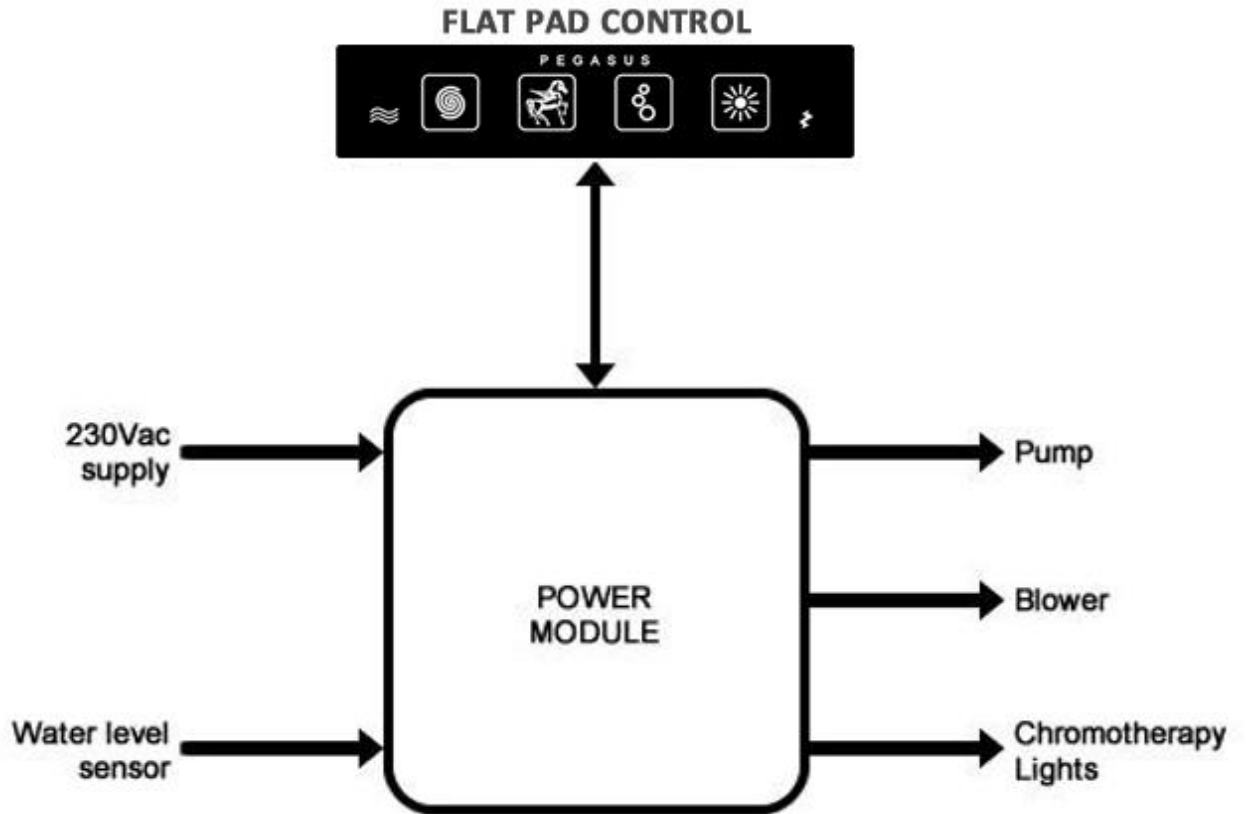


Fig. 1 – System overview

0.1.Touch Keypad

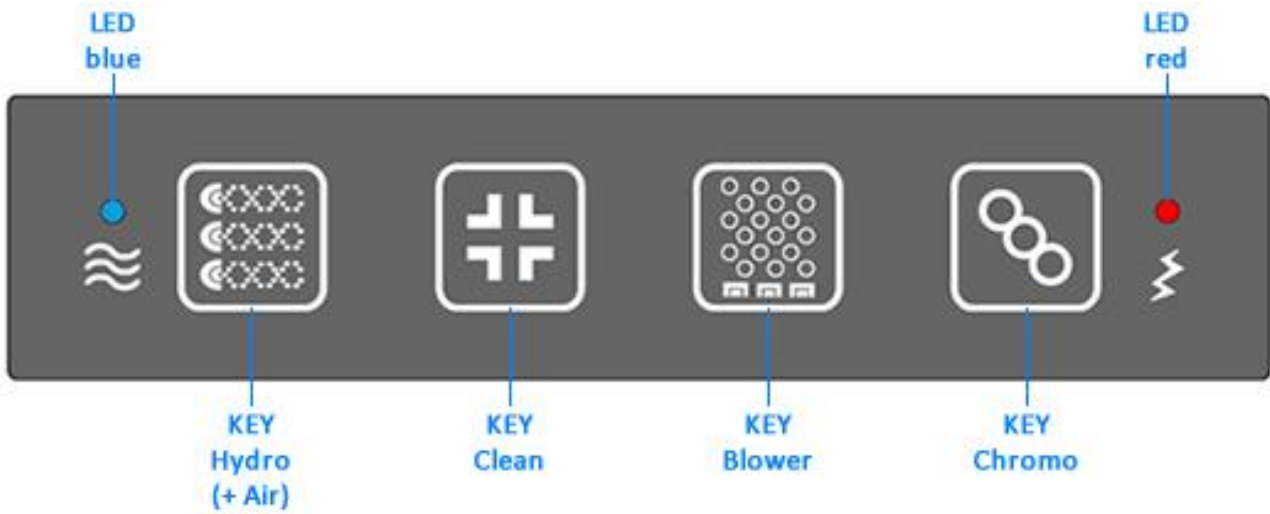
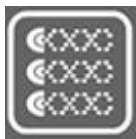


Fig. 2 – Keypad layout

Note: while using the system please do not use fingernails as this may damage the pad.



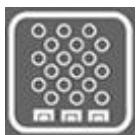
**Whirlpool pump**

On Press, activates whirlpool function. Function enabled if required water level is verified by sensor and button will be a fixed blue. Otherwise, button will flash blue to indicate a low water level.



**Whirlpool Disinfection**

Press button to activate this process. The blue LED will flash.



**Air blower on/off Manual Purge**

Press for 1 second with sufficient water level: starts/stops the Blower (starts at medium power level). Press button to rotate through 5 different speed settings.



**Chromotherapy lighting**

Selects the Chromotherapy colour (fixed colour or colour programme)

**on/off Whirlpool (30 min.)**  
**on/off Whirlpool + Air**  
**on/off Blower**  
**on/off Clean / Disinfection**  
**on/off Chromotherapy**  
**Flat Keypad – 4 buttons & 2 LEDs**  
**Water Level Sensor**  
**Disinfection Level Sensor**

### Keypad Functions

4 Keys:  Hydro (+ Air),  Clean,  Blower,  Chromo  
2 LEDs: Blue (left), Red (right)

### Switching On


When connected to electricity the Red Led lights up on the keypad to indicate the keypad is turned on. The Blue Led is off indicating the presence of water or will flash when there is an insufficient level of water in the bath.


When each button is pressed the Blue Led will flash briefly.

4 Buttons: Whirlpool Pump (+ Air), Clean, Blower, Chromo

2 LEDs: blue (left), red (right)


### Whirlpool Function

Press the  Whirlpool Pump button briefly to activate the Whirlpool pump.

Press the  Whirlpool Pump button for 1 second to activate the pump and the electro valve of the air system to create the air bubbles.

To activate both of these functions there must be a sufficient level of water in the bath (see Alarm).

The Blue Led will switch on.

Press the  Whirlpool Pump button at any time to switch off the Whirlpool function.

However, all functions will automatically switch off after 30 minutes.

The Blue Led will switch off.

After use drain off the water in the bathtub (see Pipe drying)

### Blower Function

Press the Blower button for 1 second to activate the Blower at the minimum speed.


To activate this function there must be a sufficient level of water in the bath (see Alarm)


By pressing the Blower button briefly you increase to the next level of speed: Speed 1 – Low Speed 4


Medium high


Speed 2 Medium low Speed 5 High

Speed 3 Medium

By pressing the  blower button when the system is at Level 5 the system returns to the Level 1 Low speed.



By pressing the  blower button again for 1 second you activate the Auto-wave function (starting at the Low speed level).

The Blower  repeats automatically cycles at the various speed levels: Low, medium, high, medium, low etc.

Press the  Blower button again for 1 second to deactivate the Blower function. All functions will be automatically switched off after 30 minutes. After use, drain off the water in the bathtub (see pipe drying)

### Alarms Section

While the Hydro whirlpool and/or the Blower are switched on, whenever the water level goes below the required minimum level of safety (indicated by the water level sensor of the bathtub) the Whirlpool pump and/or the Blower will stop functioning and the Blue Led light on the keypad will flash to indicate the low water level.

If within 10 minutes from the start of this safety alarm the required water level is reached the Blue Led will stop flashing and the Whirlpool Pump  and/or the  Blower will restart to function as before.

Otherwise, the Whirlpool and/or the Blower will be deactivated automatically. If

Required, press both the Hydro Pump & Blower buttons to deactivate both functions.

The Blue Led will continue to flash will continue to flash if the water level is insufficient and will stop flashing only when the correct water level has been reached.

### Pipe Drying and Cleaning Process

After use, so after the Whirlpool and the Blower have been switched off, drain off the water present in your bathtub.

The pipe drying process will automatically begin 10 minutes after the water level sensor does not register the presence of water in the bathtub and when the Whirlpool Pump and/or Blower have been used previously.

The Blue Led will start flashing to indicate the stand by period.

The cleaning of the pipework will be automatically activated for a duration of 2 minutes after each cycle, the cleaning process will have 3 speed levels; initially low then medium to end with the highest speed to blow dry and clean thoroughly the pipework of the bathtub. The Blue Led will flash throughout this process and will switch itself off only when the process has been completed.


This process of pipe drying guarantees the removal of any water remaining in the pipework.


During this process the system will not accept the request to activate any other functions indicated on the keypad.

### Disinfection & Cleaning Function

The disinfection & cleaning functions can be activated only in the presence of the following conditions:

1. The whirlpool Pump is switched off
2. The Blower is switched off
3. The bathtub is full of water
4. There is sufficient disinfection liquid in the tank

When all of the above conditions have been verified, press the  Clean/Disinfection button to activate this process. The Blue Led will flash.

If only the first 3 conditions are completed and when you press the  Clean button and the Blue Led flashes rapidly it means the disinfection liquid is insufficient and the system will not activate the Cleaning process.

The cleaning process begins by activating the whirlpool pump and will remain activated for a duration of 2 minutes.

After the first 20 seconds an electro valve will be activated to release the disinfection liquid into the system, will be activated for 10 seconds.

Only the whirlpool pump will function for the remaining 90 seconds of the process, it will automatically switch itself off. The Blue Led will flash.





The use must then drain off the bathtub.


Now the Cleaning cycle has been completed the Blow drying function of the pipework automatically switches itself on (see Pipe drying section).

During this process the system will not accept the request to activate any other functions indicated on the keypad.


### **Chromotherapy**

Press the  Chromotherapy button for 1 second to switch on the chromotherapy lights. Press briefly the  chromotherapy to go to the next colour or sequence.

The Chromotherapy programme is composed of 11 fixed colours and 5 automatic sequences (see

below). When the white light is on you can press the  chromotherapy button for 1 second to go directly to the automatic sequences and skip the fixed colours.



Press the  chromotherapy button for 1 second with any other colour lit up to deactivate the chromotherapy function.

The chromotherapy spotlight will automatically switch itself off after 8 hours of being switched on. The chromotherapy function does not require the presence of water in the bathtub and can be activated or deactivated at any moment required.

1: White (full colour)	<b>12: Energy Cycle</b>	<b>14: Relax Cycle</b>	<b>16: Dream Cycle</b>
2: Light Blue	Red 30 "	Blue 30 "	Green 20 "
3: Blue	Orange 30 "	Green 30 "	Blue 20 "
4: Violet	Green 6 "	Orange 6 "	Violet 20 "
5: Shocking pink	Yellow 30 "	Light Blue 30 "	Red 20 "
6: Red	<b>White 30 "</b>	White 30 "	Orange 20 "
7: Pink	Green 6 "	Orange 6 "	Yellow 20 "
8: Orange	Yellow 30 "		White 20 "
9: Yellow	Orange 30 "	<b>15: Sun Cycle</b>	Light Blue 20 "
10: Light Green	Green 6 "	Yellow 20 "	
11: Green		Light Blue 15 "	
12: <i>Energy Cycle</i>	<b>13: Tonic Cycle</b>	Yellow 20 "	
13: <i>Tonic Cycle</i>	Yellow 30 "	Orange 15 "	
14: <i>Relax Cycle</i>	Red 30 "	Yellow 20 "	
15: <i>Sun Cycle</i>	Green 30 "	White 15 "	
16: <i>Dream Cycle</i>			