



COOL POOL
BY HANSCRAFT

USER MANUAL

COOL POOL PRO

COOL POOL PRO benefits

Embrace the Revitalizing Chill

Experience the invigorating benefits of cold therapy through our innovative COOL POOL PRO product. Cold therapy, also known as cryotherapy, involves subjecting the body to cold temperatures for therapeutic purposes. With its age-old roots and modern applications, this practice offers diverse and remarkable benefits for your well-being:

Reduced Inflammation – Cold therapy is a natural anti-inflammatory. It helps to constrict blood vessels, reducing blood flow to inflamed areas and thereby alleviating swelling and pain. Whether you're recovering from an intense workout or seeking relief from sore muscles, our COOL POOL PRO can provide the cool comfort your body craves.

Faster Recovery – Athletes and fitness enthusiasts often turn to cold therapy to accelerate recovery times. The controlled exposure to cold temperatures promotes quicker muscle repair, reduces muscle soreness, and aids in preventing overexertion.

Increased Circulation – Paradoxically, cold therapy can lead to improved circulation. As the body responds to cold, it works to keep vital organs warm by increasing blood flow to the core. Once you exit the cold environment, this increased blood flow returns to the extremities, promoting better overall circulation.

Enhanced Mental Well-being – Cold therapy is not just about physical benefits; it can positively impact your mental state too. The shock of cold triggers the release of endorphins, which are natural mood lifters. Many people find that cold therapy leaves them feeling refreshed, invigorated, and more mentally focused.

Boosted Immune System – Regular exposure to cold temperatures has been associated with improvements in the immune system. It stimulates the production of immune cells and activates the body's natural defense mechanisms, helping you stay resilient against illness.

With a COOL POOL PRO, you can integrate the power of cold therapy seamlessly into your routine. Whether you're looking to enhance your recovery, reduce inflammation, or simply invigorate your senses, the COOL POOL PRO offers a convenient and effective solution.

Embrace the chill and unlock a new realm of well-being today.



Premium Materials

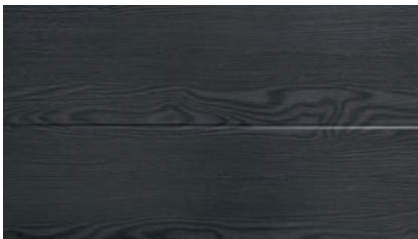
Embrace the chill and rejuvenate your body and mind with our product, showcasing an Acrylic Surface for aesthetics, an AluCombo Cabinet for efficient cooling, an aluminum frame for durability, and an insulated pipe sleeve to prevent condensation. Perfect for year-round outdoor use, energy-efficient, and reliable. Enjoy hassle-free cooling without water-related concerns.



1. Acrylic Surface



2. Aluminum Frame



3. Tri-layered Side Cabinet



4. Insulation Sleeve

Contents

1	Warning	5
2	Settings	6
3	Important Safety Instructions	6
4	Package List	8
5	Specification	8
6	Touchscreen Control Panel	10
6.1	Control Panel Installation Instructions	10
6.2	Setting and Function	11
6.2.1	Main interface	11
6.2.2	Slide to power on	11
6.2.3	Set the circulating pump mode	12
6.2.4	Set the light mode	13
7	Regular Control Panel	13
7.1	Panel Function Diagram	13
7.2	Touch Pad Usage Instructions	14
7.2.1	Temperature setting	14
7.2.2	Clock setting	14
7.2.3	Working mode	14
7.2.4	Constant Temperature Function	14
7.2.5	Timing water cycle	15
7.2.6	Freezing Proof	16
7.2.7	Circulation Pump	16
7.2.8	Sterilization	16
7.2.9	Children lock protection setting	16
7.2.10	Light	17
8	Preparation for COOL POOL PRO	17
8.1	Exhaust Air and Replace Filter	17
8.2	Power Supply and Drainage	18
8.3	Opening the Front Door Panel for Electrical Hookup	20
9	Troubleshooting	21

1 Warning



Warning! Risk of fire, electric shock and water leakage.



Your COOL POOL PRO includes a detailed Installation & User Manual. Follow all instructions in the Installation & User Manual closely.



Warning! Improper installation, usage or maintenance can lead to loss of warranty, injury or property damage. Spa tub should be installed in accordance with BCA and local regulatory standards by qualified persons only. An isolation switch is recommended. Electrical installation must comply with AS:3000-Electrical Wiring Rules.



Warning! Ensure there is at least 150 mm of clearance around the air inlet and outlet.



Warning! Suitable for operation in ambient temperatures ranging from -5 °C do 43 °C.



Warning! During installation and transportation, the unit must not be placed on its side or upside down.



Special Note:

To ensure optimal performance of the equipment after each refilling, please follow these steps:

- A)** Connect the power supply and activate the control panel to start the equipment.
- B)** Allow the equipment to operate for 20–30 seconds. Then, bleed the filter for 20–40 seconds by opening the bleeder valve on one side of the filter cover (*refer to the figure*). When water flows out from the filter vent, tighten the filter approximately 5–10 seconds after water appears.

Completing these steps will ensure the circulation pump operates at its peak performance.

If the control panel indicates that the circulation pump is functioning normally but there is no water circulation in the pipeline, please repeat steps 1 and 2. (This is a rare occurrence)

2 Settings

If you're excited to reap the benefits of your new COOL POOL PRO, start by following these simple guidelines to embark on your journey.

We understand your enthusiasm, but we strongly recommend reading the entire instruction manual, paying special attention to the safety information, before beginning your cold therapy sessions with the COOL POOL PRO. Your safety and maximum enjoyment are our top priorities.

- A)** Place your COOL POOL PRO in a suitable location and fill it with water through the filter until the water level reaches the recommended mark as specified.
- B)** Open the air bleed screw to exhaust air from the filter and pump housing. For more details (*see page 17*).
- C)** Plug the cold tub into a 220–240 V/50 Hz power source and set the desired temperature using the control panel.
- D)** Within a few hours, you can enjoy the refreshing experience of cold water therapy.

We highly recommend regularly cleaning and sanitizing!

3 Important Safety Instructions

READ AND FOLLOW ALL INSTRUCTIONS!

Taking the plunge is a significant step, and HANSCRAFT Spas disclaims all liability for damages due to failure to follow the provided guidelines.

Health Disclaimer

If unsure, consult your doctor before using the COOL POOL PRO. While generally suitable for most individuals, those with reduced mobility or sensory/cognitive abilities should use the COOL POOL PRO under supervision and only if knowledgeable about safe usage and potential risks.

Temperature Awareness

Start with a higher temperature (15 °C/59 °F) and a shorter duration (1–2 minutes).

Gradual Adaptation

Tolerance to cold water varies. Gradually increase COOL POOL PRO usage time. Sudden immersion can shock the body; enter slowly, keeping face, shoulders, and hands above water until breathing is steady.

Cold Exposure Risks

Cold shock response decreases with exposure experience. Hypothermia is a risk – it leads to loss of consciousness and heart failure. Duration in cold water depends on factors like temperature, body size, and experience. Consult your doctor. Start with brief dips to find limits. Exit if uncomfortable.

Safety Precautions

- Supervise children around the COOL POOL PRO.
- Pregnant women, children, and those with medical conditions must consult a doctor before using.
- Avoid alcohol or drugs before use.
- Do not use in extreme weather or flood conditions.
- Ensure proper drainage to avoid water accumulation.

Maintenance

- Be cautious when entering and exiting the COOL POOL PRO.
- Keep the inlet clean to protect the pump.
- Avoid using electrical appliances nearby when empty.
- Use only approved cleaning agents; rinse thoroughly.
- Do not pressure wash the COOL POOL PRO.
- Keep the cover on to prevent injuries and water ingress.
- For repairs, consult COOL POOL PRO's approved engineers.

Power Supply Safety

Ensure the power supply is on an GFCI protected circuit for safety.

WARNING

- People with infectious diseases should not use a spa or hot tub.
- To avoid injury, exercise care when entering or exiting the spa or hot tub.
- Do not use drugs or alcohol before or during the use of a spa or hot tub to avoid unconsciousness and possible drowning.
- Do not use a spa or hot tub immediately following strenuous exercise.
- Prolonged immersion in a spa or hot tub may be injurious to your health.

Safety Instructions/Package List/Specification

CAUTION

- Maintain water chemistry in accordance with manufacturer's instructions.
- Please read the instructions carefully and use according to the instructions.
- Children should use this product under the close supervision of adults.

4 Package List



Aqua-Shield Lid



HydroPur Filter



Option
Easy-Access Stair



Option
HeatArmor Cover

5 Specification

Power Supply:	220–240 V, 50 Hz, 4 A
Water Flow:	80 l/min; 21 gal/min
Materials:	Acrylic, Aluminum, High-density PU
Dry Weight:	133 kg; 294 lbs
Water Capacity:	300 l; 79 gallons
Temperature Control:	3–40 °C (37–104 °F)

Draining

2-way draining – normal drain Groove and heat pump condensate drain outlets.

Antifreeze function

With the auto freeze-proof function, heating will initiate when the water temperature drops below 3 °C (37 °F) and will automatically turn off when the temperature reaches 9 °C (48 °F).

Filtration

HydroPur Filter within arm's reach for easy configuration and maintenance.

Cover

An aesthetic Aqua-shield Lid that optimizes space, and gives an interior-grade look.



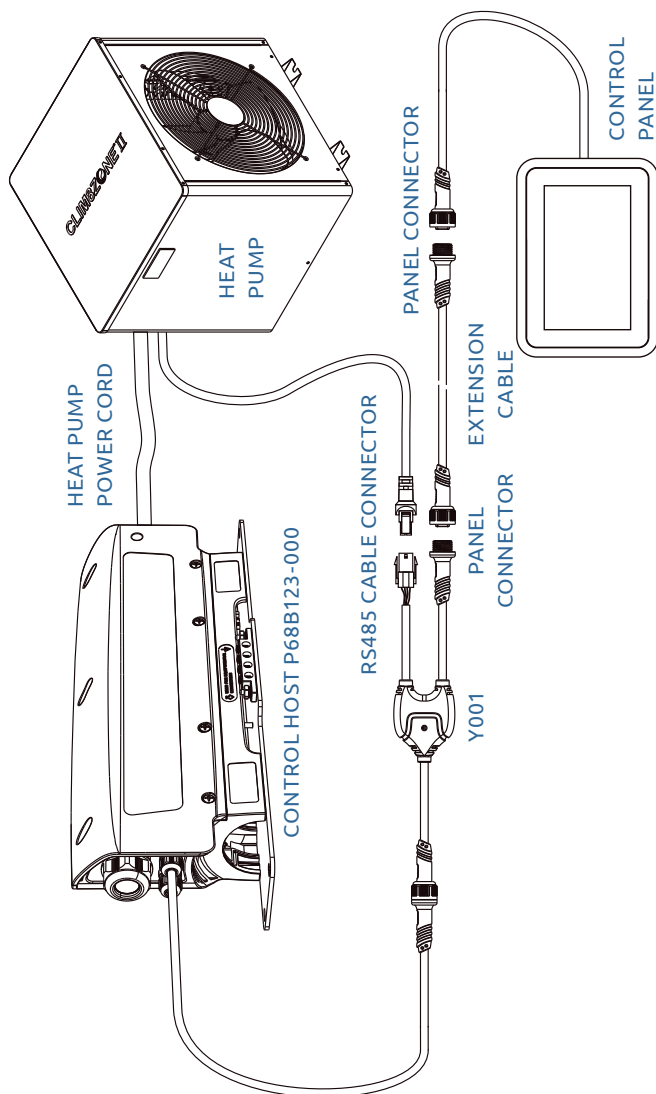
By default the product is equipped with the following features as indicated in the illustration above:

1. Circulation Pump
2. Sterilizer
3. Chiller
4. Insulation Sleeves

6 Touchscreen Control Panel

6.1 Control Panel Installation Instructions

Connection diagram of heat pump, control host, and control panel.



6.2 Setting and Function

Panel Function Diagram

6.2.1 Main interface



6.2.2 Slide to power on

Power on – After power on the SPA, turn on the system automatically. Or while the screen is off, touch to wake up the screen and follow the prompts to slide the icon and then power on. After power on the SPA, wait for 1 minute before operating the panel.



Power Off – Touch this button to power off.

When the system is power off, all loads will be turned off. When the system is power on, the screen will light up, the thermostat function will start, and the heat pump will run automatically to control the water temperature to the set temperature degree. The circulation pump is on. The sanitizing functions is turn on manually. In the following icons, only the underwater disinfection icon and light icon can be operated by touch.



Circulating pump icon



Heat pump icon



Disinfection icon



Light icon

Touchscreen Control Panel

Details are as follows

Current water temperature °C/°F



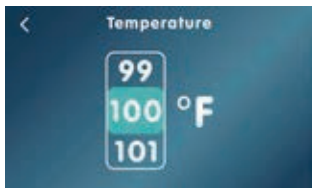
Preset water temperature °C/°F



Click to switch temperature units




Click to enter the temperature setting interface

Temperature setting UI



6.2.3 Set the circulating pump mode (only for installers)



Within 2 minutes after powering on, when the main interface is displayed, touch the  icon 5s to enter the setting menu, touch the  icon to change the circulating pump mode, you can set the circulating pump mode to *Always On* or *Auto*, at this time touch the  icon to return to the main interface. Circulating pump mode will remain when power is down.



Always On mode




Auto mode

Always On mode – When system is on, the circulating pump is always on.

Auto mode – When system is on, the circulating pump is only turned on after the heat pump starts, when the heat pump is turned off, the circulating pump will be closed for a delay of 2 minutes, if the circulating pump has not been run within 1 hour, the circulating pump will run automatically for 1 minute.

6.2.4 Set the light mode (only for installers)

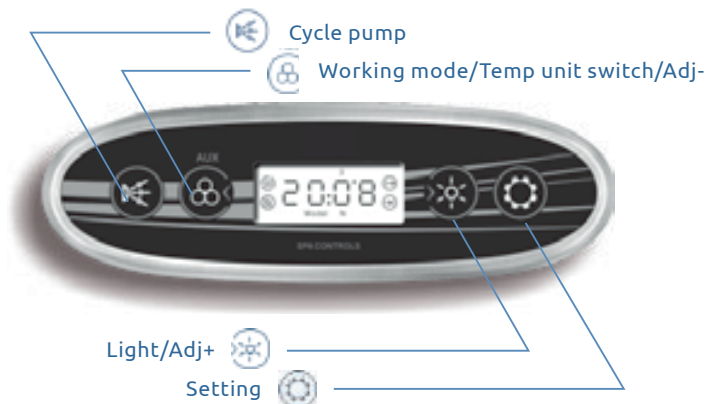
Within 2 minutes after powering on, when the main interface is displayed, touch the  icon 5s to switch light mode. The light mode will remain when power is down.

RGB mode – light work on RGB mode

ON/OFF mode – light work on ON/OFF switch mode

7 Regular Control Panel

7.1 Panel Function Diagram







Regular Control Panel

7.2 Touch Pad Usage Instructions

7.2.1 Temperature setting




24°C

When the system is powered on and not in setting mode, press  to switch the temperature unit (°C or °F). The system will automatically save the selected unit.


To set the temperature, press the , key until you enter the temperature setting interface. The LCD will display the temperature unit, which will flash. Then use the  and  keys to adjust the temperature value between the setting range 3–40 °C (37–104 °F). The system will store the temperature value you set.

7.2.2 Clock setting

17:30

When the system is powered on, press  button to enter the clock setting mode. The LCD will display either the hour or minute values, which will flash. Then, press the  and  buttons to adjust the hour and minute values.

7.2.3 Working Mode

When the system is powered on and not in the setting mode, press the , key for 2 seconds to switch to the desired working mode.

The system offers three default working modes (when the system is powered on, it is in the standard mode)

- **Standard mode** (LCD displaying Model N); *Heat & cool* function will be valid in 24 hours. If system time falls within the water cycle set time period, filtering water cycle function will be valid.
- **Economy mode** (LCD displaying Model E); If the system time falls within the water cycle set time period, the filtering water cycle function is valid. If it falls within the heating set time period, the *heat & cool* function will be valid. If it is outside the set time period, the freezing proof function will be started.
- **Sleeping mode** (LCD displaying Model D); Freezing proof will be started and other loads will be turned off and cannot be controlled by keys.

7.2.4 Constant Temperature Function

The constant temperature function automatically activates in standard mode. In economic mode, it starts within the designated time frame. In sleep mode,






the anti-freeze function runs automatically. Once the constant temperature function is initiated, the circulation pump starts first, and the heat pump activates shortly after. If the constant temperature function is turned off, the heat pump shuts down first, followed by the circulation pump.

When the constant temperature function is enabled, the system regulates the heat pump's operation based on water temperature and the set temperature, ensuring automatic temperature control.

The temperature control setting (standard model and economy mode):

- If the water temperature is \geq the set temperature $+1\text{ }^{\circ}\text{C}$ ($34\text{ }^{\circ}\text{F}$), the cooling function of the heat pump is activated.
- If the water temperature is \leq the set temperature $-1\text{ }^{\circ}\text{C}$ ($34\text{ }^{\circ}\text{F}$), the heating function of the heat pump is activated.
- If water temperature = set temperature, the heat pump stops.

To set the heat & cool time period (Economy mode and sleeping mode only):

- When system is powered on, press , till entering timing heating time period setting interface. The correspondent time value will flash. Press  and  to adjust the time.
- "1" and "2" in LCD stand for time period 1 and time period 2.  and  in LCD stand for starting and ending time of time period.
- The system will automatically store the value after timing heating setting.








7.2.5 Timing water cycle

The control system offers two time periods for setting water circulation. Before using the COOL POOL PRO, please configure these two time periods.

When the system operates in *standard* and *economy mode*, you can set the water cycle time periods. In *sleeping mode*, the timing of the water cycle is not applicable. In any time periods, the water cycle will be started, otherwise, it will turn off.

To set the water cycle time period:

- When system is powered on, press  to set the timer for water circulation. The correspondent time value will flash. Press  and  to adjust the time.
- "1" and "2" in LCD stand for time period 1 and time period 2.  and  in LCD stand for the starting and ending time.

Regular Control Panel


- The system will automatically store the value after setting the time of water circulation.



7.2.6 Freezing Proof

The freezing proof function will automatically work. When water temperature is lower than 3 °C (37 °F), heating will be started. When the temperature reaches 9 °C (48 °F), heating will be turned off.



7.2.7 Circulation Pump

When the control system is powered on and operates neither in *sleeping mode* nor *setting mode*, press the key  to control the circulation pump. Circulation pump will turn off automatically after running for 30 minutes.

7.2.8 Sterilization

Sterilization will automatically start when system is powered on.

7.2.9 Children lock protection setting

When the system is powered on, press constantly  until it goes to children lock setting interface. Then press  to set the children lock function. When the setting is done, the system will save it.





Children lock
protector disabled

Children lock
protector enabled

If no button is touched within 3 minutes, then all the buttons will be locked, and no operation can be done. At the same time, the LCD displays "LOC"; press and hold any button for 3 seconds to unlock the panel. All the buttons work and "LOC" disappears from the screen.

7.2.10 Light

When the control system is powered on and operates neither in *sleeping mode* nor *setting mode*, press the key  to control light. Press the key  for 2 seconds to turn off the underwater light.

Light has two modes. In on/off mode, light turning on and off are controlled.

In RGB mode, the control regulation is as below:

- state 1 auto color change (color changing among state 2 to state 8 in cycle)
- state 2 red
- state 3 green
- state 4 yellow
- state 5 blue
- state 6 purple
- state 7 cyan
- state 8 white
- state 9 turning off

8 Preparation for COOL POOL PRO

8.1 Exhaust Air and Replace Filter

Exhaust Air

Loosen the filter exhaust valve counterclockwise, then let the air exhaust from the filter.



1. Filter exhaust valve



2. Loosen valve counterclockwise



3. Air exhaust

Preparation for COOL POOL PRO

Change Filter

Regularly cleaning your filter is the simplest and most effective way to maintain clear water. A dirty filter can cause power and system issues. Here are some steps about how to change the filter.



1. Loosen the locking ring



2. Remove the filter cover...



3. ... and the whole filter



4. Remove the old filter



5. Insert the replacement. Repeat the previous steps

8.2 Power Supply and Drainage

Power Supply



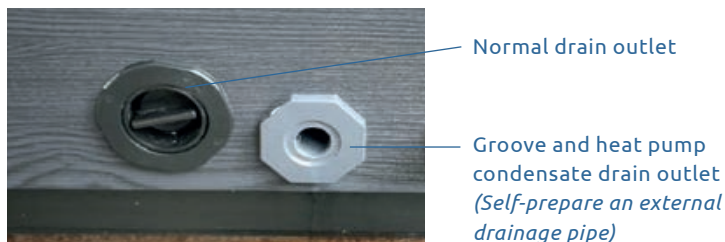
1. Power Supply



2. Install the thread hole cover

Preparation for COOL POOL PRO

Drain outlets

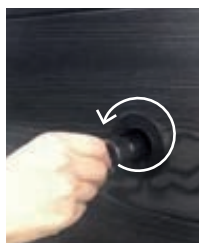


CAUTION: the two drain outlets on the cabinet are designed for water drainage purposes only, **DO NOT** fill water from this point!

Normal water Drainage



1. Pull out the drainage valve



2. Rotate the cap counterclockwise



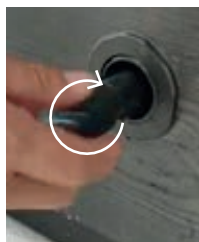
3. Water will begin to drain



4. Pushing the valve inwards increases the water flow



5. While pulling it out reduces the water flow



6. To stop the drainage, rotate the cap clockwise



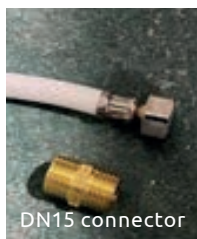
7. ... and push the valve inwards



8.

Preparation for COOL POOL PRO

Condensate Drainage



1. Self-prepare the accessories



2. Install the connector



3. Connect the hose and it is ready to use

8.3 Opening the Front Door Panel for Electrical Hookup

The following electrical connections must be performed by a licensed electrical contractor. Unscrew and remove the two corner panels on each side of the spa's front door.

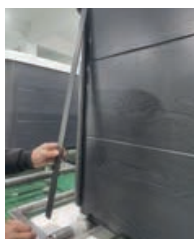
Remove



1.



2.



3.



4.



5.

Install



1.



2.



3.



4.



5.

9 Troubleshooting

If you require after-sales service for your product, please provide the serial number. The serial number can be found on the product box (*picture below*) or on the label located on the product (*see page 22*).



Troubleshooting



Symptom

Possible Solutions

Start-up problem

Pump won't prime

Sometimes air may get trapped in the pump during spa filling. You may notice that after filling and starting the spa, the pump appears to be non-functional. You can hear the pump running, but there's no water movement.

- The pump will not work properly while air is trapped in it.
- Continuing to operate the pump in this way will cause damage.

Power and system problems

System won't start up or breaker keeps shutting off

Power may be shut off. If this continues, contact your dealer or a qualified spa technician.

Communication problem between the control mainframe and the circulation pump

Please check the connecting wire between the control main unit and the heat pump and replace it if necessary. Or please check if the heat pump is powered.

The control panel cannot communicate with the control mainframe

Check the connecting wire between the control panel and the control main unit. Replace if necessary.

Symptom	Possible Solutions
Chiller problems	
Water does not get cold	<ul style="list-style-type: none"> – Spa may be in high-temperature range. Set the spa to low-temperature range. – The filter may be dirty or need to be replaced. Clean or replace the filter. – The pump may have an airlock. Remove the airlock by priming the spa. – The water level may be too low. Fill the spa until the water level is 10 to 15 cm from the top. – The suction fittings may be blocked. Remove any debris that may be blocking them. – The temperature may not be set low enough. Lower the temperature on the topside control. – The filter skimmer may be blocked. Remove the blockage. – Cover the spa to retain its warmth and prevent cold from penetrating. Ensure the cover is in place whenever the spa is not in use. – Gate valves may be closed. Open gate valves. <i>Note: Never operate your spa with closed gate valves.</i> – The cooling element may be old, defective, or coated with scale. For further assistance, please contact your dealer. – COOL POOL PRO may be running in heating mode.

Other problems	
The water is murky	<ul style="list-style-type: none"> – Ensure the filter is clean. This should be rinsed every month and changed every 3 months. – Change the water if it has become too dirty.
Bad smell	If the water looks clean and clear there should be no adverse smells. Run a clean cycle several times. If the water looks murky, drain and change it.
The temperature differs from what the thermometer shows	<p>The internal temperature probe is calibrated to within 0.3 ° +/-</p> <p>There could be an issue with the temperature sensor or PCB board.</p>



HANSCRAFT, s. r. o.

K Vodojemu 140

252 19 Chrástany u Prahy

CZECH REPUBLIC

www.HANSCRAFT.eu

last update: 21. 11. 2024