

# Installation, Operating and Maintenance Manual

The serial number of your Kuura pool  
is:



## Congratulations for your purchase of Kuura cold pool!

Avantopool Kuura is an easy-to-use and compact indoor cold pool, which gives you the benefits of winter swimming all year round. It enables optimal and high-quality cold recovery, eases muscle pain and inflammations, helps sleep and improves immune system. Avantopool Kuura product is designed and manufactured in Finland / European Union.

**IMPORTANT BASICS:**

- NEVER RUN KUURA WITHOUT THE FILTER
- MAKE SURE THE ELECTRICITY SOCKET IS GROUNDED (230V / 50Hz)
- LEAVE MIN 15cm SPACE BETWEEN EITHER OF THE LONG SIDES AND THE WALL AND MIN 15CM BETWEEN THE FRONT OF THE POOL (headrest side) AND THE WALL TO ENSURE SUFFICIENT VENTILATION
- DO NOT COVER THE VENTILATION GRILLS
- MAKE SURE THE WATER LEVEL IN THE POOL IS SUFFICIENT BEFORE TURNING ON THE POWER
- DO NOT USE SALT OR OTHER MINERALS IN THE POOL
- DO NOT USE SALT WATER IN THE POOL, ONLY FRESH TAP WATER
- CLEAN / FLUSH THE FILTER AT LEAST ONCE A WEEK
- TURN THE POWER OFF BEFORE REMOVING THE FILTER
- CHANGE THE FILTER EVERY 2-12 WEEKS DEPENDING ON THE USE OF THE POOL
- CHANGE THE WATER EVERY 1-6 WEEKS DEPENDING ON THE USE OF THE POOL
- DO NOT OPEN THE ELECTRIC CABINET
- DO NOT USE THE KUURA POOL OUTDOORS WITHOUT A PROPER COVER, IT SHOULD BE PROTECTED FROM RAIN AND SNOW AT ALL TIMES
- DO NOT USE SLEEP MODE, IF AMBIENT TEMPERATURE IS BELOW 4°C.

IF POOL IS EMPTIED FROM WATER AND AMBIENT TEMPERATURE IS BELOW 0°C, REMEMBER TO PROPERLY EMPTY THE PIPES AND MACHINE FROM WATER. ICING WILL DAMAGE THE DEVICE.

IMPORTANT: WHEN LIFTING/ CARRYING THE PRODUCT, REMOVE THE END PANELS AND TAKE THE GRIP FROM THE PRODUCT WOODEN FRAME INSTEAD OF THE SIDES OF THE BASIN

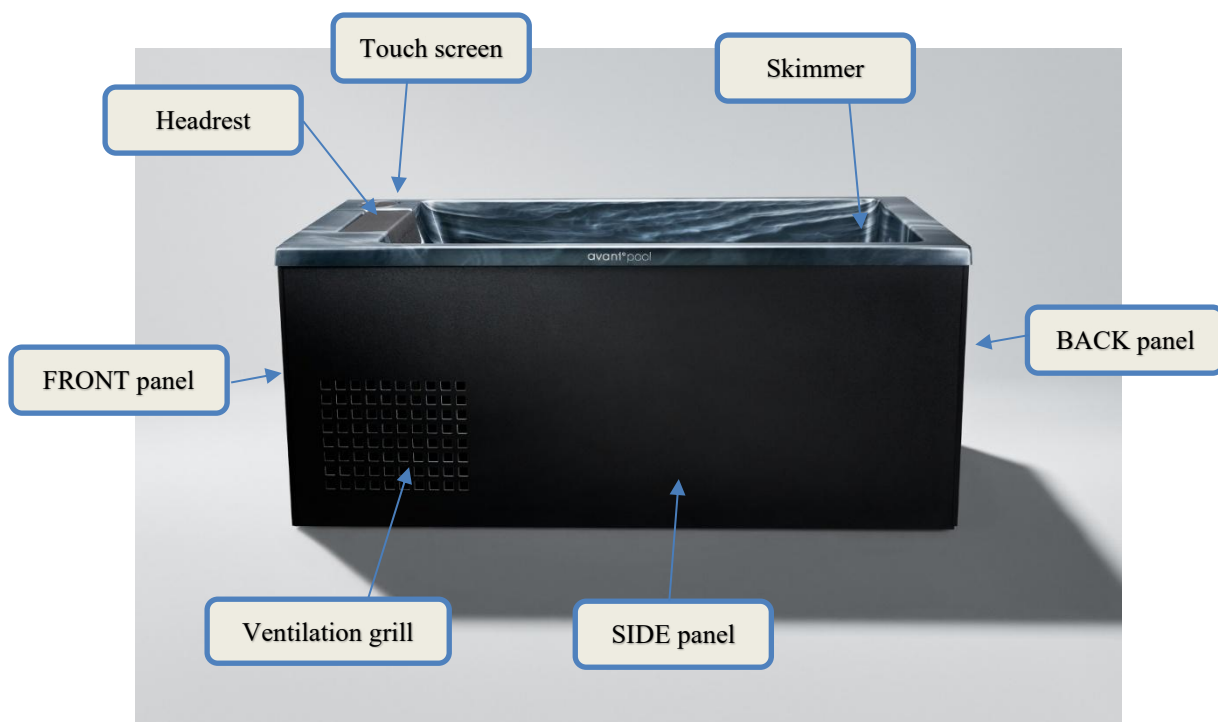
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## General safety instructions

- Before you start using the pool, read all instructions and follow them carefully.
- Do not let children use the pool unless they are always closely supervised by adults. Do not leave the pool without the cover if children have access to the room where it is stationed. Make sure the cover is always on when the pool is not in use.
- Do not use the pool if the plug or supply cord is damaged. Order a new one from your dealer and make sure it is properly installed before re-starting to use the pool.
- Do not have the pool running if the filter is not properly attached
- Do not use any electrical devices while in the pool or while at immediate distance of the pool.
- Check the water temperature always before entering the pool. The water temperature may not exceed +40 °C or be less than +4 °C.
- Persons with a history of heart disease, low or high blood pressure, circulatory system problems, diabetes, or any condition requiring medical treatment should consult a physician or a doctor before using the pool.
- Persons with reduced physical or kinematic capabilities should not use the pool without sufficient instructions and/or supervision.
- Persons using medication should consult a physician or a doctor before using the pool since some medication may induce drowsiness while other medication may affect heart rate, blood pressure and circulation.
- Pregnant women should consult a physician or a doctor before using the pool.

## Main external parts of Kuura pool



## Technical information

- Measurements: Length 1800 mm, width 790 mm, height 780 mm
- Capacity (optimal water level): 320 L
- Weight when filled: 430 kg
- Weight when empty: 110 kg
- Water temperature range: adjustable between +4°C - +40°C
- Cooling / heating speed: 6-7°C/hour
- Average energy consumption: approx. 2- 5 kWh/day
- Refrigerant: R32
- Display: Digital touch screen with WIFI
- Electric coupling: 230V/50Hz, 1-phase. Plug equipped with residual-current device
- Noise level: 46 dB (A)
- Hygiene: Water filtration and continuous UV purification
- Outdoor use: Only when fully weather protected, ambient temperature range -7°C - +40°C

## Transportation, installation, electrical connection

Kuura pool is packed in covering, durable and easily transportable carton container. It can be moved with a pallet jack. The package container can be stored or re-used when needed. When the product is unpacked and the pool needs to be lifted/moved, remove the end panels of the product and take the grip from the wooden frame instead of the sides of the basin!

The pool should be placed on an even ground. We recommend the pool is placed in premises suitable for handling water, ideally with a tiled floor, floor drain and sufficient ventilation. When placed beside a wall, make sure to leave at least a 15 cm gap between the front side and a long side of the pool and wall to ensure sufficient ventilation.

There should be a grounded and preferably wall mounted power socket (230V/50Hz) within 4 m range of the pool. *Do not connect the plug to the power socket until the pool is filled at least to the minimum water level (see page 9).*

*Do not use the pool if the plug or supply cord is damaged. Order a new one from your dealer and make sure it is properly installed before re-starting to use the pool.*

## Detaching and attaching the panels

The side and end panels may need to be detached during transportation, service and repair work, or when moving the product. No tools are needed to detach or attach the panels. The panels are attached to the pool body on aluminum holders.

### Detaching the panels

1. Take a grip from the sides of the back or front panel and raise it up appr. 2 cm and then pull it towards yourself (Fig. 1a and 1b).
2. Slide the panel downward and the upper part of it will be released from under the basin's collar. Now you have detached the front / back panel.
3. Repeat the same for the other front / back panel. After this you may detach side panel(s) in the same way if necessary.



Fig. 1a



Fig. 1b

#### Attaching the panels

1. Attach the panels side panels first and then back and front panels. ***NOTE that the side panels and front panel have ventilation grilles to be positioned in front of the machinery to ensure proper air circulation and avoid overheating of the machinery.***
2. Push the top of the panel plate approx. 2 cm under the basin collar (fig 1b).
3. Push then the low section of the panel towards the pool and move the panel down until it holds.
4. Repeat the same for all side panels and then front and back panels.

## Start-up instructions

- Clean the pool from possible dirt and stains.
- Fill the pool with water from the nearest faucet using a hose.

**Note!** Do not use salt or any other ingredients in the water which may harm the materials or cause blockage to the machinery.

- The minimum water level in the pool is just above the bottom of the skimmer cover (see Fig.2). Water level should never be below that. Maximum water level of the pool is just below the top line of the skimmer cover grills. (Fig. 2).

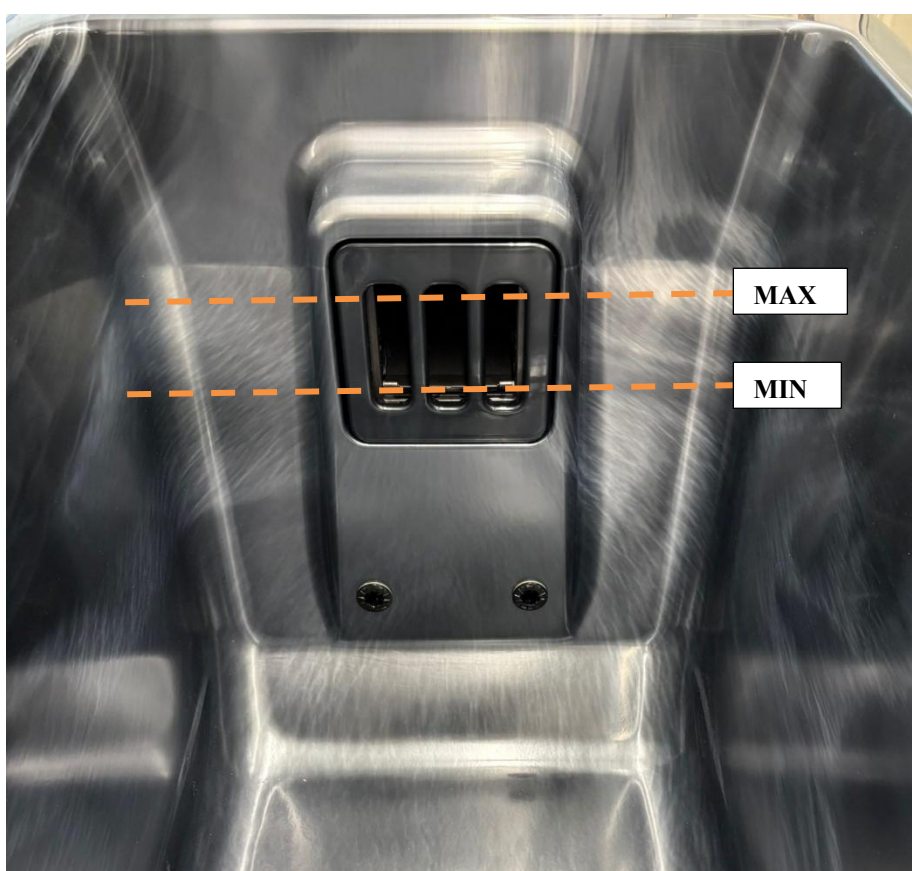


Fig. 2 Water level guidance

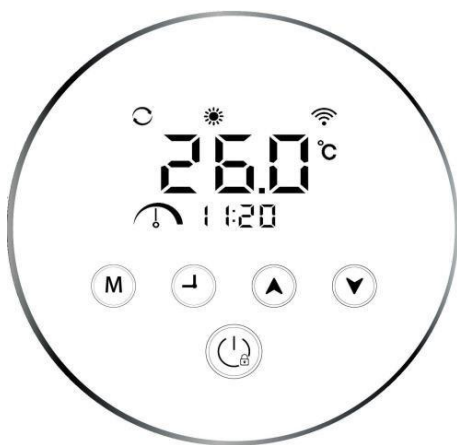
- *Do not connect the plug to the power socket until the pool is filled with water!* After the pool is filled connect the plug to the power socket and push the Reset button.

## Entering and exiting the pool

In Kuura pool you can immerse fully to the neck level. While entering and exiting the pool, pay close attention as the surfaces might be slippery from water. Notice that you might feel temporary stiffness in limbs caused by the cold water, especially after a longer immersion time

## Operating instructions

### Controller Interface



### Operation Instruction of Controller

#### Power and Screen Lock

To unlock, long press “” 3 seconds until you hear a “beep” sound. The lock icon “” disappears. Short press the “” key to turn the unit on or off. After 60 seconds without pressing any button, the controller will be locked automatically. When locked, the lock icon “” is displayed.

#### Modes (Cooling / Heating / Auto)

When the unit is on, short press “” key to select the operating modes. The circular selecting sequence is Cooling → Heating → Auto → Cooling (continual loop).

NOTE: Auto mode → there is a delay in changing the cooling / heating direction.

The heating icon “” will display when Heating mode is on.

The cooling icon “” will display when Cooling mode is on.

When running in Auto mode, loop to icon “”. **It is recommended to always use Auto mode.**

## Temperature Settings

When the cooling unit is on, unlock the screen (see “Power and Screen Lock”). Press up “▲” or down “▼” to adjust the target temperature. No actions for 3 seconds will exit the display showing the current water temperature.

## Time Setting

1. Enter Time Setting: Long press the “⌚” key for 5 seconds until the digit in both “hour” and “minute” parts flash.
2. Time Setting Method: On the time setting interface, short press “⌚”. Then the hour digit in area will blink. Press “▲” or “▼” to adjust hour. Press “⌚” to switch to minute part and repeat above actions. When setting is done, press “⌚” to save the setting and to exit to main interface.

## Power ON/OFF Timer Setting (“Auto Mode”)

1. User can set up two ON/OFF “active mode” timer periods. The set periods may not overlap.
2. Power ON/OFF Timer Setting Method

On main interface, short press “⌚” to enter power on/off timer setting. When “1” is blinking, press “⌚” to enter the power ON hour part setting of “active mode” period 1. When the hour part is blinking, press “▲” or “▼” to adjust the hour. Press “⌚” to confirm and to enter to the minute part. Repeat the same actions to set the time when Active Mode is OFF.

When setting is done, long press “⌚” to confirm and save the current power ON/OFF timer setting. Press “▲” or “▼” to enter setting of “Active Mode” period 2 and repeat above actions. Valid timer group will be shown on the main interface with a corresponding number. Short press “⏻” to go to main menu.

## Error messages on Display

When the fault occurs, the corresponding error code will appear. After the error is eliminated, the error code will disappear. To reset the error code, restart the unit.

## Error Code List

| Fault code | Description                                                      |
|------------|------------------------------------------------------------------|
| E17        | Inlet water temperature fault                                    |
| E18        | Outlet water temperature fault                                   |
| P01        | Water flow fault                                                 |
| P15        | Inlet/outlet water excessive temperature protection              |
| P16        | Overcooling protection                                           |
| P17        | Standby anti-freeze protection                                   |
| P23        | Outlet water low temperature protection under cooling mode       |
| P26        | Outlet water high temperature protection under heating mode      |
| P27        | Outside coil over high temperature protection under cooling mode |

## General maintenance

Maintenance of the Kuura pool is easy. Automated and constant filtering accompanied by UV cleaning will make sure the water stays clean and clear.

Even though the system is automated, there are important maintenance tasks to perform to ensure that the product remains fully operational and the water clean. The frequency of the activities needed depends directly on the rate of pool usage.

### ***Water level control***

Check that water level is above the “minimum water level” (Fig. 2). Too low water level may allow air in the pipes and cause breaking of the water pump. Also check visually the water quality on daily basis as well as the water circulation-

### ***Checking and flushing of filters***

*The product includes skimmer and a filtration system.* The coarse filter and the filter cartridge can be accessed behind the skimmer cover. The cover is released by pulling it (Fig. 3). Then open the hatch (Fig. 4) and remove coarse filter (Fig 5). After that remove the fitting plate (Fig. 6) to access and remove filter cartridge (Fig. 7). **Note: turn off the pump before detaching the filter parts and make sure no objects enter the open skimmer.** Flush the coarse filter and filter cartridge thoroughly under warm running water or shower (Fig. 8) (*do not use pressure washers as it may damage the filter cartridge material*). After cleaning / changing the filter, attach the filtration system parts back in reverse order: I.e. first insert filter cartridge (Fig. 7), insert fitting plate (Fig. 6), insert coarse filter (Fig. 5), close the hatch (Fig. 4) and attach the skimmer cover by pushing it firmly back to its place (Fig. 3).

### ***Changing filter cartridge***

The filter cartridge should be replaced always, if after cleaning the filter the water circulation is not at normal level. You may order new filter cartridges from your reseller or [www.avantopool.com](http://www.avantopool.com)

### ***Replacing the water***

Before emptying the pool turn off the power (see instructions on page 10, Stop/start). Empty the pool with a submersible pump to the nearest floor drain or sink. You can alternatively use simple siphon method. Should you not be able to fully empty the pool, use for example a wet vacuum cleaner or simply a bucket and cloth. Clean the pool with mild washing agent and rinse properly. *Do not use a pressure washer for cleaning the pool!* The pool may be filled again after it has been emptied.

**Note! Do not use salt or any other mineral ingredients in the water which may harm the materials or cause blockage to the machinery.**

The water should be changed at the latest when the water is visually unclear.

Here are some guidelines on water change and other maintenance routine activities and their recommended frequency:

**a) private use** (1-5 users per day)

- check water level daily
- check and flush filters every week
- change water monthly
- change filter cartridge every 3 months

**b) sports club or limited commercial use** ( ~10 users per day)

- check water level daily
- check and flush filters 2-3 times a week
- change water every second week
- change filter cartridge monthly

**c) active commercial use** (20-40 users per day):

- check water level daily
- check and flush filters daily
- change water 1-2 times per week
- change filter cartridge every second week

*If the number of the users exceeds 10 users/day, or if the product is used as a warm/hot pool, it is recommended to add a half tea spoon of granular chlorine into the pool when changing the pool water.*



Fig 3. Remove/attach skimmer cover



Fig. 4. Open/close hatch



Fig. 5. Remove/attach coarse filter



Fig. 6. Remove/attach fitting plate



Fig. 7. Remove/attach filter cartridge



Fig. 8. Flush the filter cartridge

## ***Replacing the UV-lamp***

The frequency for changing the UV-lamp is one year. **Power must be turned off and the pool emptied of water before changing the UV-lamp.** Detach the back panel (see page 7). You can find the UV-disinfector behind the panel on the left (Fig. 9). Pull the black UV-disinfector casing from the clips. Unscrew the cover of the UV-disinfector and gently pull out the UV-lamp (Fig.10 and 11.). Change the UV-lamp (Fig. 12) and gently put the new lamp back to the UV-disinfector. Connect the plug as well as place the disinfector back to its clips. Attach the back panel.



Fig. 9. UV-disinfector location



Fig. 10. Unscrew disinfector cover



Fig. 11. Pull out/fit in UV-lamp



Fig. 12. Change UV-lamp

## Problems and solutions

### No flow-error P01

If the water is not circulating properly, the device will stop itself and P01 error message will appear (Fig 13). Check the water level and condition of the filter cartridge. Add more water if needed. Clean the filter cartridge or replace it if needed. Should the problem remain, please contact the retailer or manufacturer.



Fig. 13. No flow error displayed

### Temp measure error (P26 / P23)

Should the water temperature exceed 40°C or fall below 4°C, the device will stop itself and an error message will appear. Add cooler or warmer water to the pool to adjust the temperature, and check and flush the filter system (see page 13)

### Device does not cool to set temperature

If the pool struggles to achieve the set temperature even though compressor is running, then check the condition of the condenser unit. Remove the back and a side panel and vacuum the condenser's blue grate with a vacuum cleaner (see Fig. 14).



Fig. 14. Vacuum grate

## Warranty

### 3 years

These materials have a 3-year warranty, which applies to fractures and breaking without external influence or other misuse of the device (see below limitations):

- pool (basin), frame, rails
- piping

### Private use 2 years / commercial use 1 year

These parts and combinations (aggregate) have a limited 2-year warranty (private use) / limited 1-year warranty (commercial use), which applies to breaking without misuse of the device (see limitations below).

- Mechanical and electrical parts and components
  - cooling unit (aggregate) as a whole
- components: pump, heat exchanger, condenser, compressor
- touch screen control panel and control system
- lid, panels
- **NOTE: UV lamp** warranty period is **6 months** both in private and commercial use

### Warranty does not cover:

- Damage or defect caused by misuse of the device, wrong or inadequate electrical current or connection, negligence, inappropriate on-site operating conditions, repairs by non-Avantopool designated personnel, tampering, alterations or accidents in later transportations.
- Flood or rainwater, insect infestation or unreasonable outdoor exposure
- Damage caused due to the product not being reasonably installed, operated, maintained or used in accordance with Avantopool's instructions and specifications (User Manual)
- Damage caused by unauthorized alterations, accident, misuse, abuse, use of incorrect voltage, power surges, thunderstorm activity, tampering and unauthorized repairs, or exposure to abnormally corrosive conditions
- Damage caused by the use of chemicals or minerals in the pool water.
- Damage caused by water or other liquids entering the electrical or electronics of the device through negligence.
- Damage caused by severely overheating the product due to negligence, such as covering the product's ventilations grills with towels, clothing, or other objects, or operating the pool too close to a wall or in a room/place with insufficient ventilation.
- Damage caused by freezing when the product is left in OFF-mode in ambient temperature below 4 °C and all water is not properly vacuumed from the piping system.

Following instructions stated in the User Manual is imperative. Following the maintenance routine is utmost important. Damage caused by neglecting the maintenance routines may void the warranty.

## **Original owner & country of sale**

Warranty is available only to the original purchaser / owner, purchased from Avantopool directly or from an approved Avantopool reselling partner in corresponding market. This warranty is not transferable except with the written consent of Avantopool. The warranty applies only in the country where the Kuura pool was purchased or delivered to the original owner. When pool is sold by the reseller outside its home country, the reseller is solely responsible for all the warranty related issues.

## **Proof**

Proof of the purchase date, serial number and that the claimant is the original purchaser may be required. Additionally, Avantopool reserves the right to request the return to Avantopool of any component replaced under warranty, or alternatively, proof that the faulty component was disposed or destroyed.

## **Right to repair or replace the product**

Avantopool reserves the right to replace the product or relevant part of the product with the same or equivalent product or part rather than repair it.

## **Separate warranty on replaced components**

Where defective parts are replaced with new parts, the new part will carry a separate warranty from the date of replacement, however this does not restart the original standard warranty.

## **Response time & place of repair work**

Avantopool undertakes to approve and provide repair work promptly, however we will not accept responsibility for any costs whatsoever in regard to any repair work or transport costs that were not specifically approved by Avantopool prior to any such work or transport taking place. At its discretion, Avantopool may either repair the product at the premises of the owner of the product, or if the repair is beyond the scope of a local distributor or repair agent, Avantopool may request that the product be shipped back to its factory for a more thorough and comprehensive examination and repair. Where Avantopool determines that the repair needs to be carried out at its factory, Avantopool will be responsible for the cost of land transport so long as that transport is arranged by or approved by Avantopool. Avantopool will not be responsible for freight services arranged without its consent.

This limited warranty gives you specific legal rights in addition to remedies provided by local laws and regulations, which may vary from country to country.

## EU DECLARATION OF CONFORMITY

Manufacturer:

Avantopool Oy

Finnoonlaaksontie 7

02270 Espoo

FINLAND

Declares that this appliance set to the market:

Avantopool model: Kuura

complies with the requirements of Low Voltage Directive 2014/35/EU:

Household and similar electrical appliances – Safety – General requirements IEC 60335-1

Particular requirements for whirlpool baths and whirlpool spas IEC 60335-2-60

and EMC 2004/108/EY requirements:

EMC IEC 61000-3-3

EMC IEC 61000-3-2

Espoo 1 / 4 / 2026



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Pekka Nurmi

COO