CUBEOR

# KANTO V1.3 | mATX BUILD GUIDE

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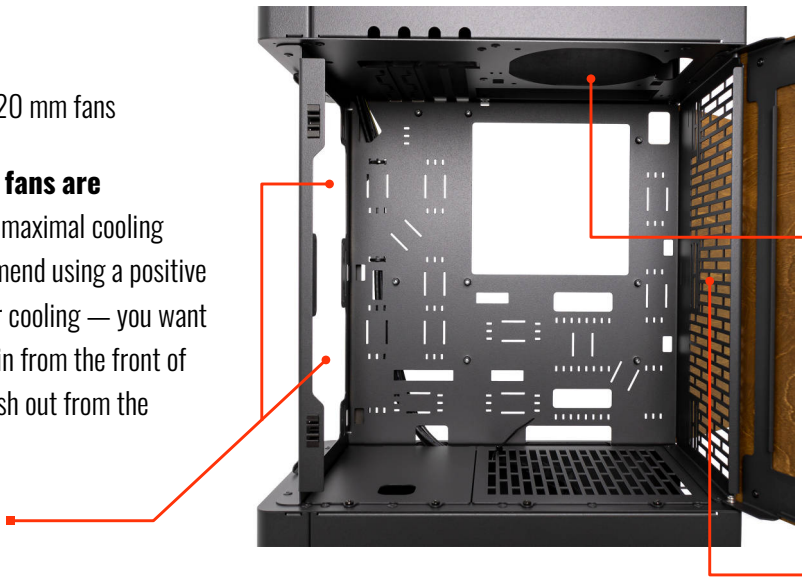
|---|---|---|
| CASE DIMENSIONS | WIDTH x DEPTH x HEIGHT | 217 x 335 x 492 mm |
| PACKAGE DIMENSIONS | WIDTH x DEPTH x HEIGHT | 270 x 380 x 530 mm |
| WEIGHT WITH/WITHOUT PACKAGE | 7.5 KG | 6.3 KG |
| MOTHERBOARD SUPPORT | MATX | MINI-ITX |
| LEGACY DRIVE SUPPORT | 1 x 2.5" DRIVE WITHOUT HDD KIT<br>3 x 2.5" DRIVES WITH HDD KIT | UP TO 2 x 3.5" DRIVES (DEPENDING ON 3.5" DRIVE HEIGHT) WITH HDD KIT |
| FAN SUPPORT | FRONT<br>REAR<br>TOP | 2 x 120 / 2 x 140 mm<br>2 x 120 / 2 x 140 mm<br>1 x 120 mm |
| LIQUID COOLING SUPPORT | FRONT(MINI-ITX ONLY)<br>REAR<br>TOP | 1 x 280 / 1 x 140 / 1 x 120 mm<br>1 x 240 / 1 x 120 mm<br>1 x 120 mm |
| COMPONENT SUPPORT | GPU<br>CPU COOLER<br>MEMORY(WITH 240 mm RAD) | MAX LENGTH 400 mm<br>MAX HEIGHT 172 mm<br>MAX HEIGHT 50 mm |
| FRONT I/O PANEL | 1 X USB 3.1 TYPE-E 10GBPS TO TYPE-C, 1 X USB 3.0, 1 X COMBO AUDIO, POWER SWITCH WITH ALL-IN-ONE PIN CONNECTOR | |
| INCLUDED ACCESSORIES | 120 MM FAN GUARD, SCREW KIT, CABLE TIES, HOOK-AND-LOOP FASTENERS, AND METAL CABLE MANAGEMENT PANEL. HDD TRAY KIT AND DUST FILTER KIT ARE SOLD AS OPTIONAL ACCESSORIES | |

# AIR COOLING CONFIGURATION

2 x 140 mm or 2 x 120 mm fans

**2 x 140 mm front fans are recommended** for maximal cooling potential. We recommend using a positive airflow setup with air cooling — you want to pull more cold air in from the front of the case than you push out from the top/rear combined.



**Install one 120 mm fan to the top section of the case** with the provided fan guard for optimal cooling. Check the recommended build order section for more information on the 120 mm fan placement.

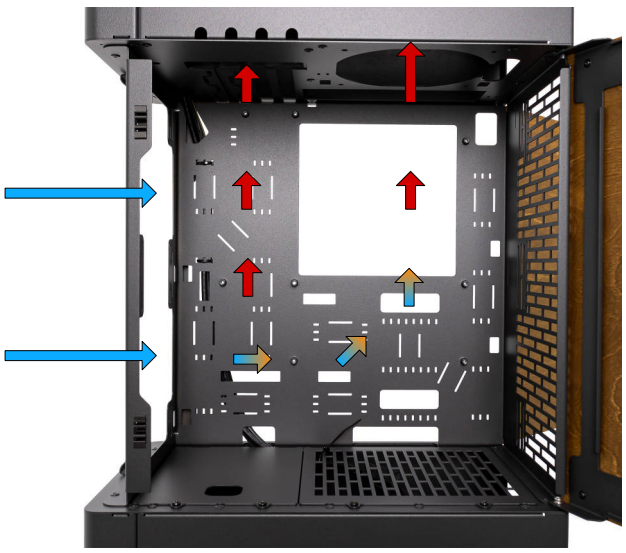
2 x 140 mm or 2 x 120 mm fans

The rear of the case supports two additional fans.

## EXAMPLE POSITIVE AIRFLOW SETUP 1

**2 x 140 mm** front fans & **1 x 120 mm** top fan

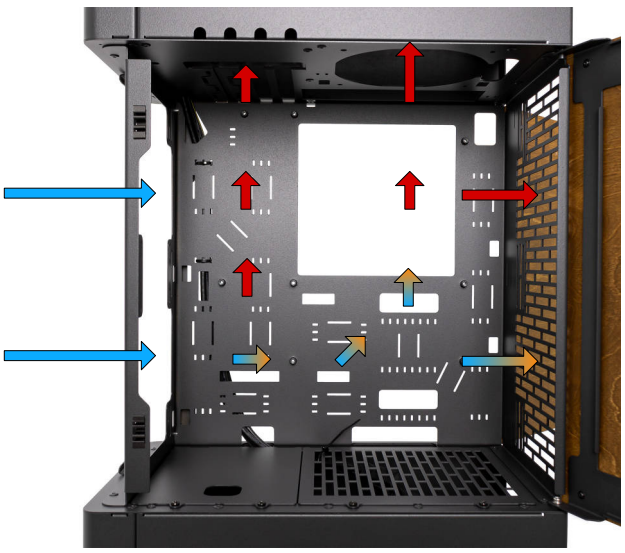
Longer arrows indicate fan placement and fan airflow direction. The longer the arrow is, the higher the recommended fan RPM/PWM (%) should be.



## EXAMPLE POSITIVE AIRFLOW SETUP 2

**2 x 140 mm** front fans, **1 x 120 mm** top fan, **2 x 140** mm rear fans

Longer arrows indicate fan placement and fan airflow direction. The longer the arrow is, the higher the recommended fan RPM/PWM (%) should be.



# LIQUID COOLING CONFIGURATION

1 x 120 mm liquid cooler

It is recommended that you mount both the fan and the radiator to the upper section of the case for better clearance and thermals.

1 x 240 mm or 1 x 120 mm radiators

Due to manufacturers' variations in motherboard memory slot location, **recommended maximum memory height is 50 mm when installing a 240 mm radiator to the rear**.

Remember to mount your radiator tubes down for optimal flow. Ensure your pump is not the highest point of your liquid cooling loop.

1 x 280 mm / 1 x 140 mm / 120 mm liquid cooler

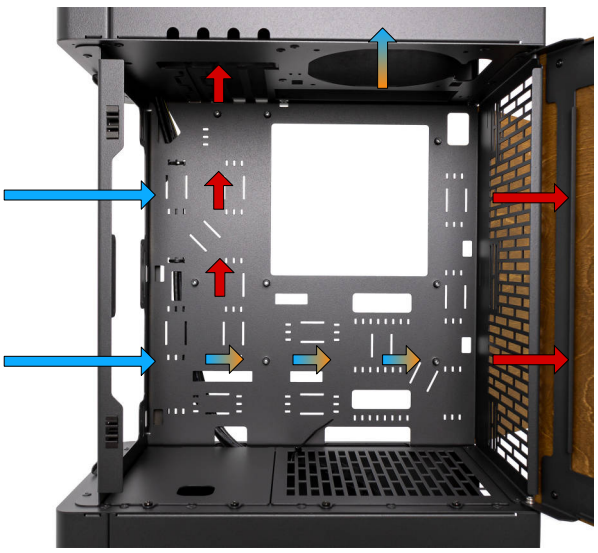
**Front liquid cooling is only supported with mini-ITX motherboards.**

## EXAMPLE POSITIVE AIRFLOW SETUP 1

**2 x 140 mm** front fans & **1 x 120 mm** top fan

**1 x 240 mm CPU liquid cooler** mounted to the rear

Longer arrows indicate fan placement and fan airflow direction. The longer the arrow is, the higher the recommended fan RPM/PWM (%) should be.

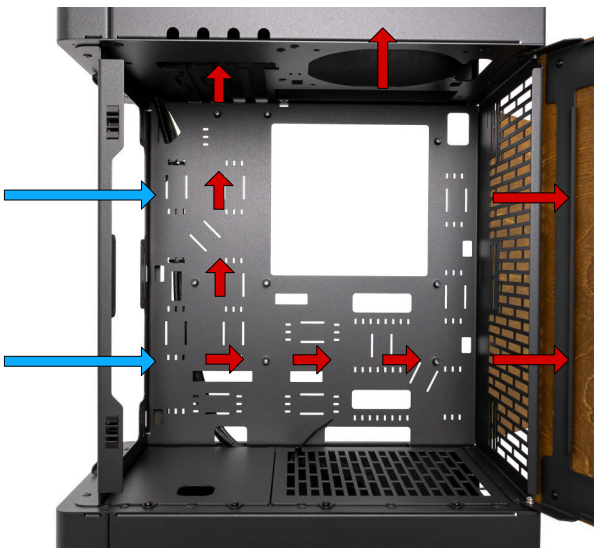


## EXAMPLE POSITIVE AIRFLOW SETUP 2 (MINI-ITX ONLY)

**2 x 140 mm** rear fans & **1 x 120 mm** top fan

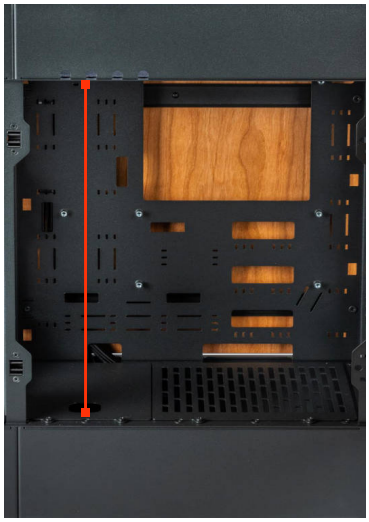
**1 x 280 mm CPU liquid cooler** mounted to the front

Longer arrows indicate fan placement and fan airflow direction. The longer the arrow is, the higher the recommended fan RPM/PWM (%) should be.



# GPU / CPU COOLER / PSU / DISK DRIVE SUPPORT

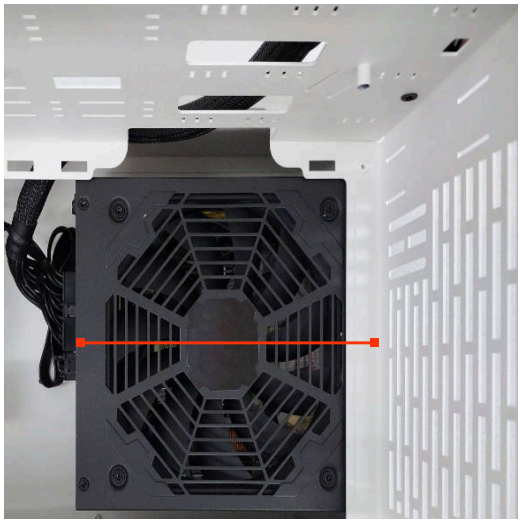
GPU max length is 400 mm. **The HDD kit limits GPU support to 345 - 390 mm** in length (depending on drive configuration).



**GPU support is 320 mm when the GPU shroud plate** is present.

Up to **172 mm** tall CPU coolers are supported.

HDD tray kit supports 3 x 2.5" drives and up to 2 x 3.5" drives (depending on 3.5" drive height). The HDD tray lowers GPU length support to 345 - 390 mm.



Recommended PSU length is **170 mm** for good cable clearance. SFX and SFX-L PSUs require cable extenders.

# RECOMMENDED BUILD ORDER 1/2

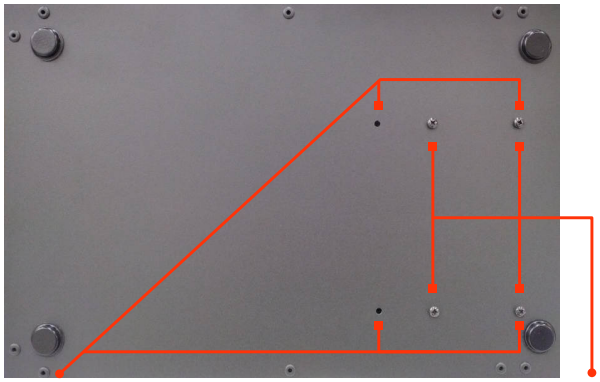
Fan guard screw - PH2
3.5" HDD screw - PH2
PCI-E / SSD screw - PZ1
Motherboard screw - PZ1

Open the side panels using finger pulls.

Remove PSU and GPU shroud.

You can remove side panels for easier component installation. The side panels are attached to the hinge mechanism with PH1 screws.


Attach provided PSU rubber feet to level the PSU.



3.5" drive screwholes

2.5" drive screwholes

Install PSU and connect hard drive cables before attaching the HDD tray to the bottom of the case. Install the HDD tray kit using the screw holes on the bottom of the case.

The front of the case supports installing one 2.5" drive without the optional HDD kit. Use the PCI-E/SSD PZ1 screws to attach the SSD

# RECOMMENDED BUILD ORDER 2/2

Install the top 120mm fan to the top section, as shown in the picture. Attach the provided fan guard with the included PH2 fan screws.

Attaching cable ties to the motherboard tray and the case's rear before installing the motherboard makes cable management easier.

Install front fans with the dust filter guards, as shown in the picture above.

Install motherboard I/O shield and motherboard assembly.

Attach the magnetic dust filter to the front of the case.

Up to 16 mm, thick slim fans can be installed between the wooden side panels and the front fan tray for more clearance. You cannot use the dust filter if you mount slim fans to the front of the fan tray.


Install GPU and use GPU shroud hole for PCIe cable management if your GPU is less than 320 mm tall.

Fasten peripheral device cables to the rear using the cable management panel.