

v1.2 User Guide



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Fasteners

Count	Thread	Length [mm]	Туре	Image
2	-	2	Spacer	
13	M3x0.5	5	CSK	
3	M3x0.5	8	CSK	
8	M3x0.5	12	CSK	
6	M3x0.5	5	PAN	
2	M3x0.5	8	PAN	

	Drive Cage			
Count	Thread	Length [mm]	Туре	Image
20	M3×0.5	4	PAN	

	Pump Bracket				
	Count	Thread	Length [mm]	Туре	Image
٠	2	M3x0.5	8	PAN	

Required Tools

Philips No. 1



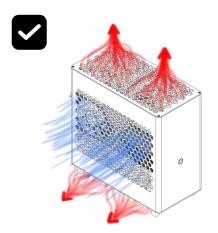
Cable Lengths

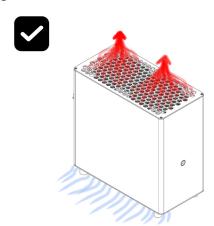
Cable	Destination	Length [mm]
24 Pin ATX	Motherboard	120
8 Pin EPS	Motherboard	290
8 Pin PCIE -> GPU	Graphics Card	200
6 Pin Power	Pump Bracket	140
6 Pin -> Pump Bracket	Drive Cage	120
PCIE Riser (Double Reverse)	Motherboard / GPU	175
C13 to C14 Connector	Power Supply	300



Airflow & Cooling Guide

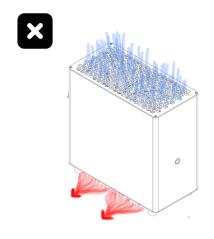
Recommended airflow configurations for Winter One

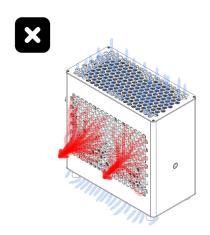




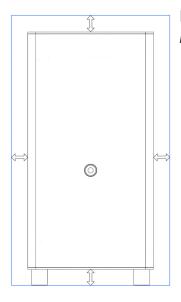


Not recommended airflow configurations for Winter One





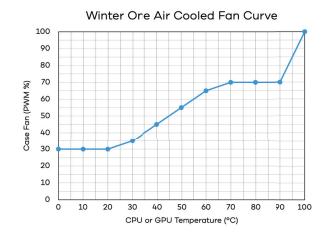




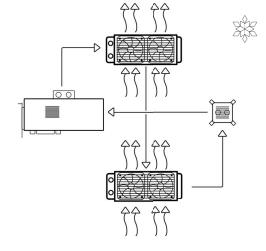
For adequate ventilation and optimal thermal performance, leave a minimum of 2 cm on all sides of Winter One.

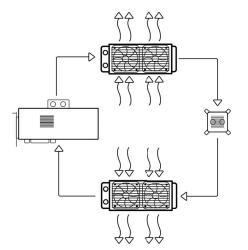
A good general fan curve for air cooling Winter One (balanced noise and cooling).

For liquid cooling, set fans to maintain a coolant temperature between 35-45 °C and set a constant pump speed.



If your case airflow is bottom \rightarrow top, plan your loop as shown on the right, so coolant flows through the radiators from top \rightarrow bottom. Having the air and water flowing in opposite directions maximizes ΔT at every point in the loop.



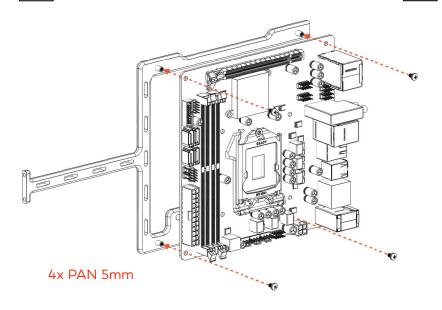


If your case is set up for allexhaust flow, plan your loop as shown on the left. The CPU and

GPU should both receive cool water from a radiator in the loop. This will make an extra 1-2 °C difference in cooling—especially at lower pump speeds—when each radiator has an independent supply of ambient air.

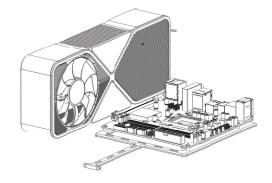
Air Cooling Build Instructions

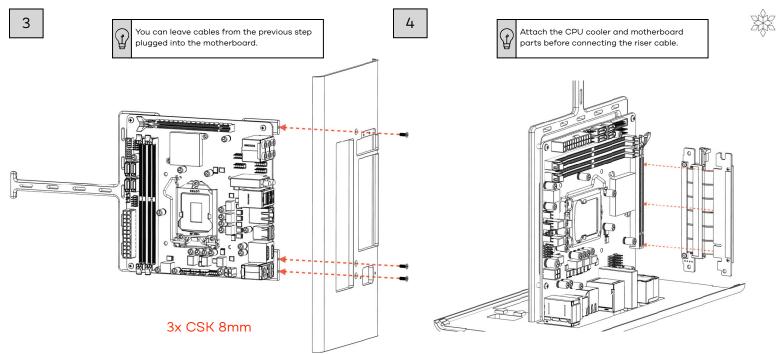


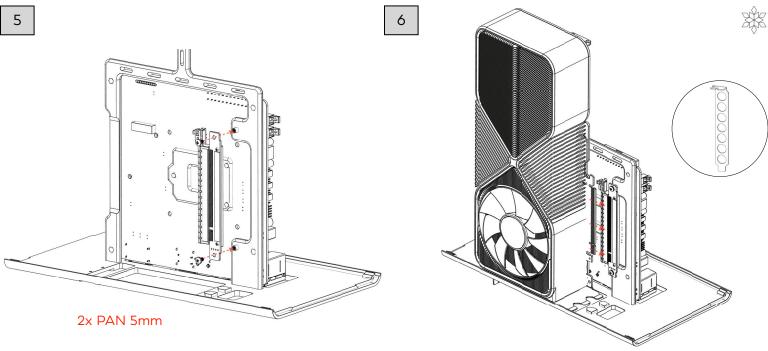


WARNING: DO NOT SKIP

If motherboard and GPU use PCIE 4.0, connect GPU directly to motherboard. Connect parts to power supply, boot up, and switch motherboard BIOS to 3.0 before proceeding.



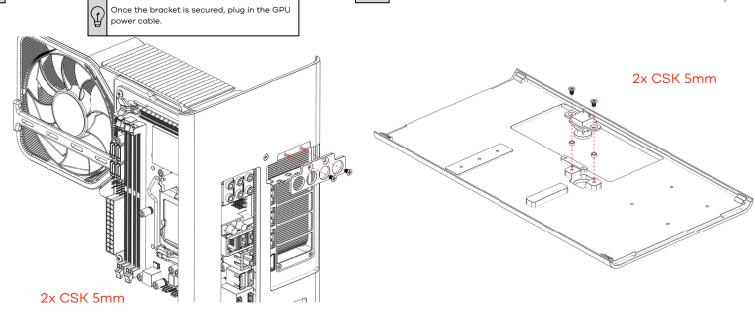


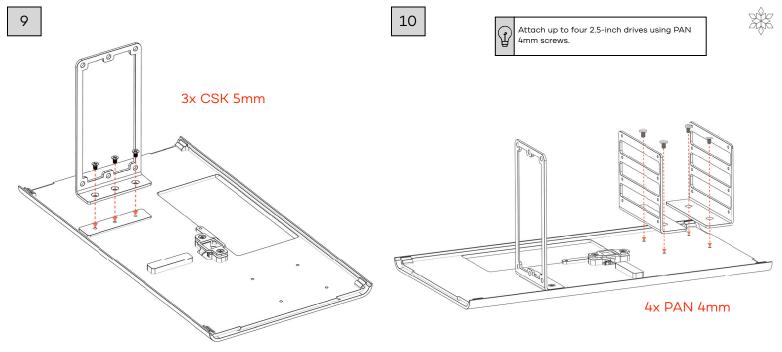


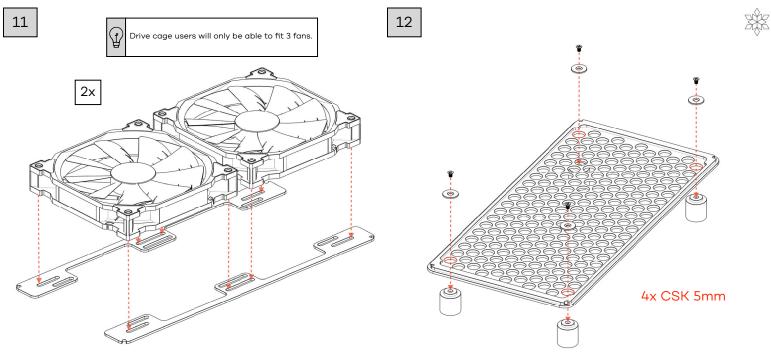
Air Cooling | 12

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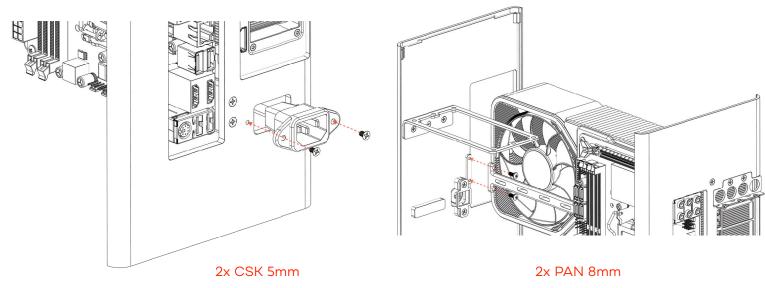




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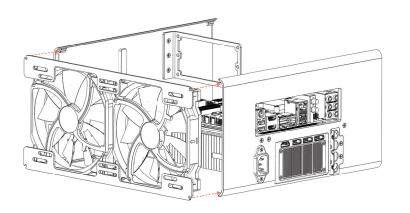


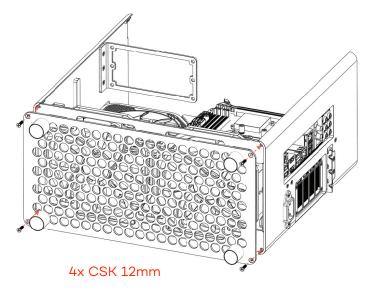


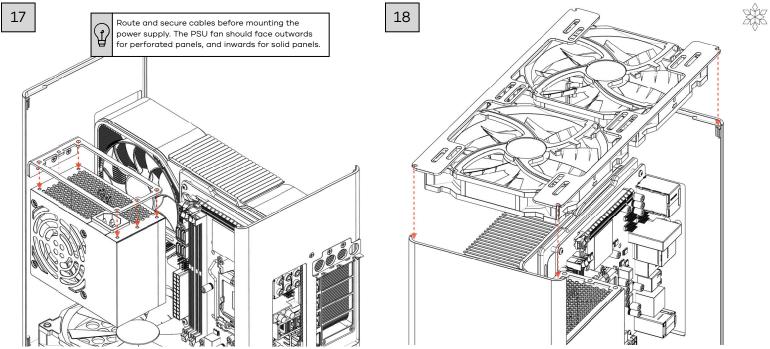


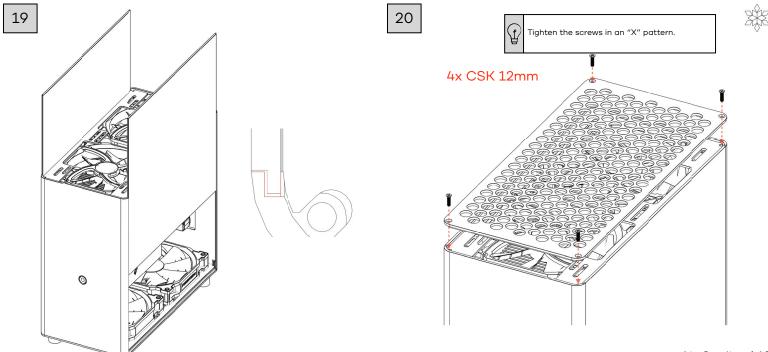
Tighten the screws in an "X" pattern.



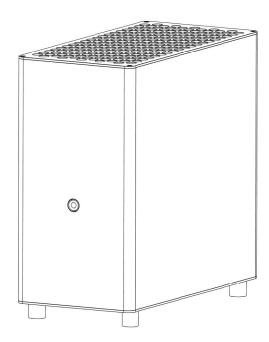














Share Your Build

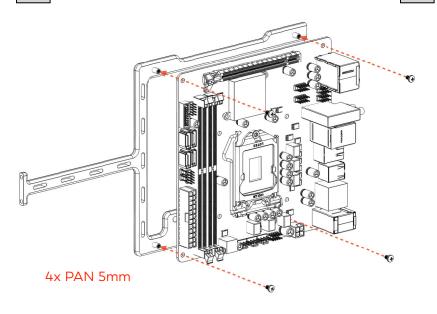
Go to http://winterdesign.co/ community to share your build and have it featured on our website.*

*subject to our approval



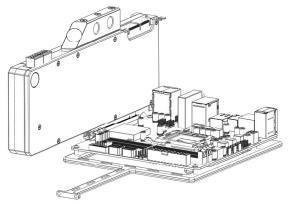
Water Cooling Build Instructions

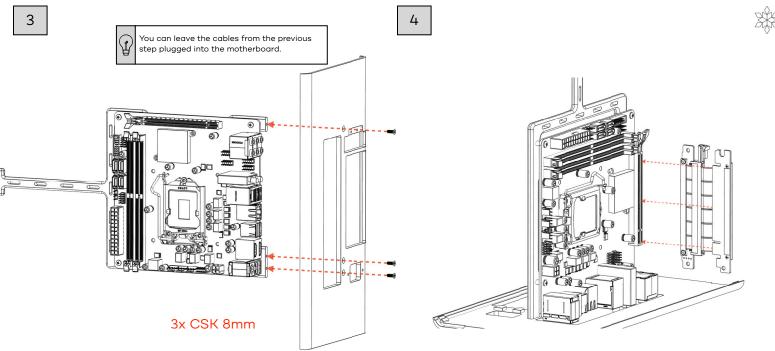




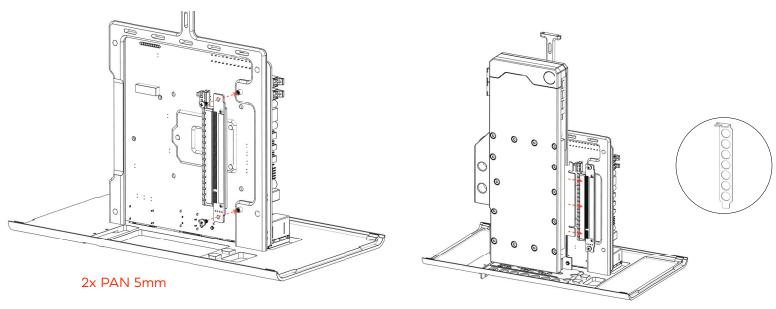
WARNING: DO NOT SKIP

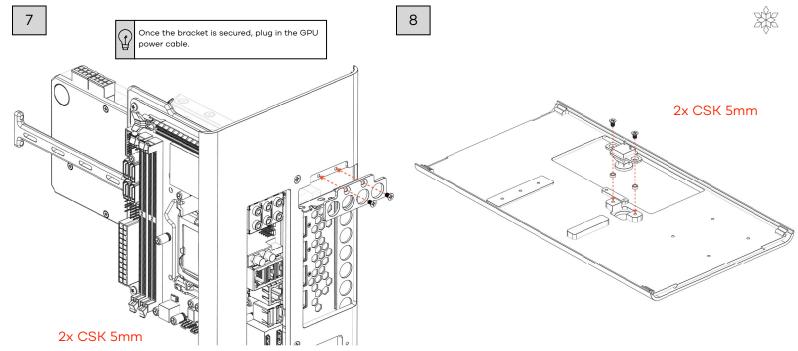
If motherboard and GPU use PCIE 4.0, connect GPU directly to motherboard. Connect parts to power supply, boot up, and switch motherboard BIOS to 3.0 before proceeding.

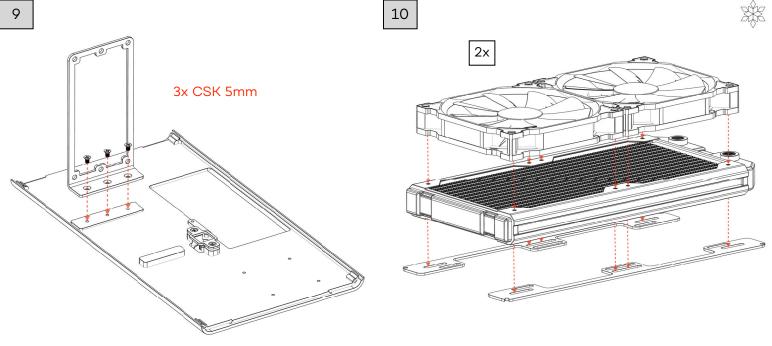






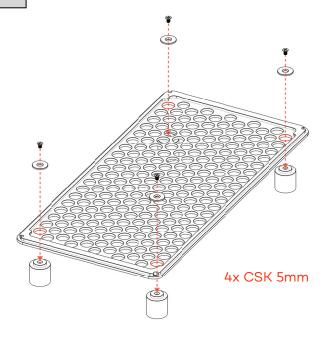


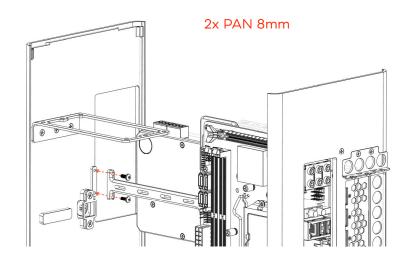


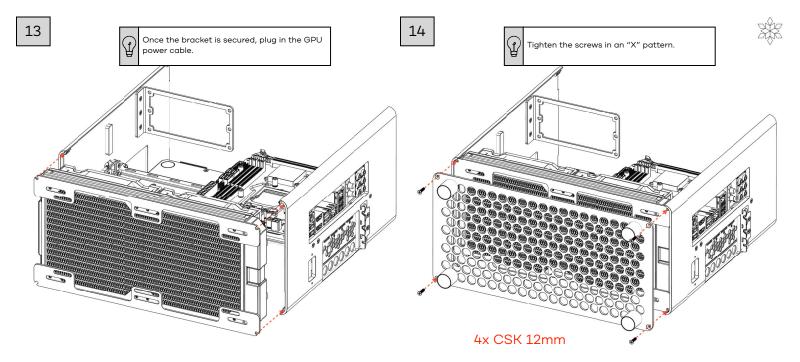










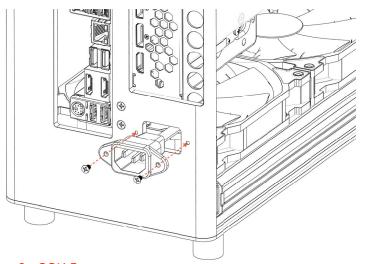






The pump bracket can be mounted in 8+ ways. You may need to attach the pump before mounting the bracket to the case.







2x CSK 5mm

2x CSK 8mm

(P)

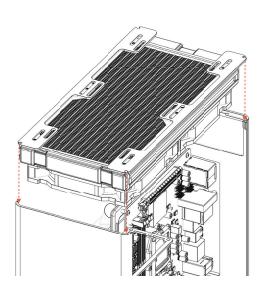
Route tubing/cables before mounting PSU. Fill loop with external PSU. Attach top panel for radiator stability when removing bubbles.

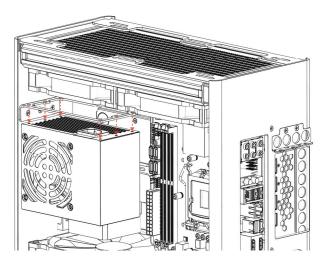


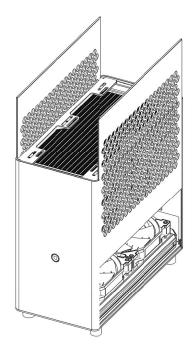


The PSU fan should face outwards for perforated panels, and inwards for solid panels.









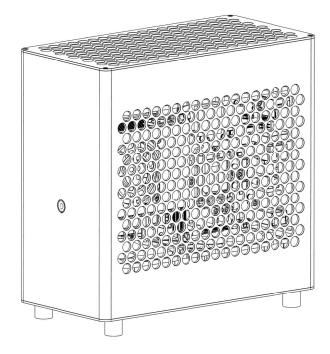














Share Your Build

Go to http://winterdesign.co/ community to share your build and have it featured on our website.*

*subject to our approval



Warranty

Winter Design products should last a decade when treated with care. Winter One is covered with a 10-year limited warranty from the date of shipping. We automatically register you for the warranty at the time of purchase. Need help? Visit http://www.winterdesign.co/support.

<u>Covered</u>

- Manufacturing defects
- Shipping damage
- Missing parts
- Incorrect parts

Not Covered

- Normal wear
- General abuse
- Product misuse
- Damage to non-case parts
- Damage from modifications
- Scratches



Disclaimers

Winter One's large holes facilitate excellent cooling but may be a hazard for children or pets. If this is a concern, please use solid panels, and keep the system out of reach of pets and children.

Winter Design will not be responsible or liable for any harm that comes from irresponsible use of its products.

Winter Design will not be responsible or liable for damages caused to your computer components from overclocking or liquid cooling. Both have inherent risks, and the user agrees to take the necessary precautions.

Winter Design products are designed in the United States and manufactured globally. Manufacturing partners and locations can change as we manage our supply chain.