SINGULARITYCOMPUTERS

PORTAL
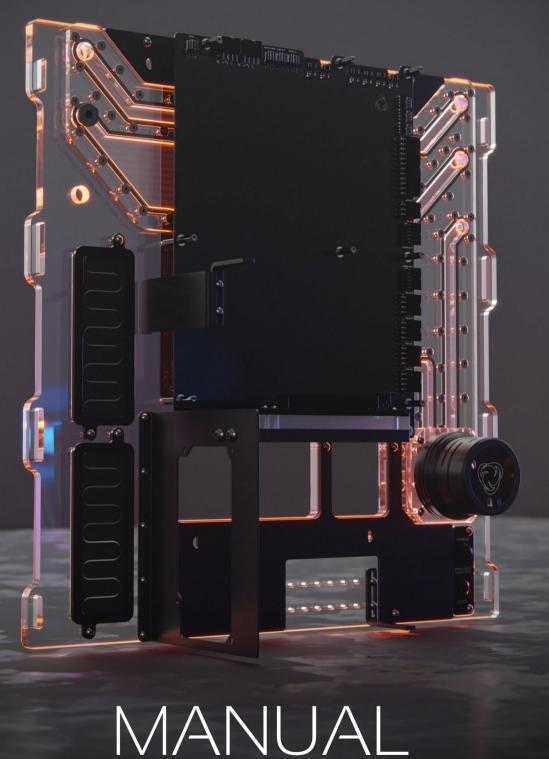
WALL MOUNTED WATER-COOLING CASE

MANUAL

Revision 1.1

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Introduction

Portal is an open wall mounted display case. It fits 2x 420mm radiators, one on each side of the motherboard. There is no limitation to radiator or fan thickness. It has an integrated distribution plate with D5 pump top and reservoir and parts of the loop are also integrated for short and clean loop routing. The GPU mounts vertically and a full sized ATX PSU fits underneath. It fits ATX or E-ATX motherboards. Motherboard and GPU cables pass through to the back of the case and can be run down the wall. There is a PowerBoard option to improve cable management. Portal has power and reset buttons in the bottom right corner.

Specifications & Included Items

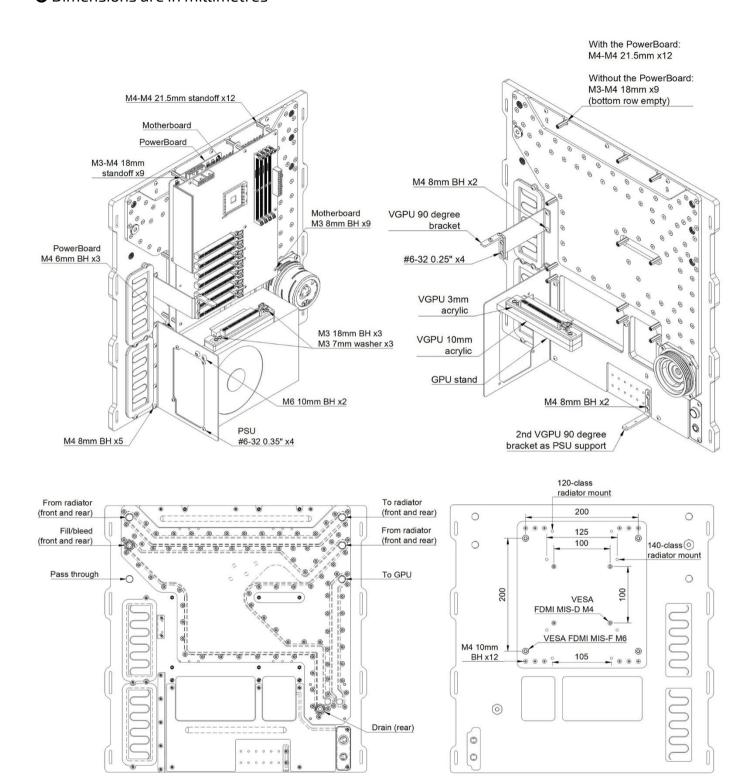| HYTE Y70 Distribution Plate Set	
Water-cooling Integration	Reservoir, Pump Top, Pump Cover, Fill Port, Drain Port, Parts of water-cooling loop. Ports: x12 G1/4" BSPP. 1x Fill Port. 1x Drain Port.
Motherboard Form Factor	E-ATX, ATX, Mini-DTX, Mini-ITX.
Case Dimensions	TBA
Case Weight	TBA
Packaged Dimensions	L: 600mm x W: 500mm x H: 100mm. (Case is flat packed and requires partial assembly.).
Packaged Weight	8kg.
Radiators	420mm x2 with unlimited thickness for radiators and fans.
Max. GPU Length	Unlimited.
Max. GPU Height	Unlimited.
Max. CPU Cooler Height	Unlimited.
Max. PSU Length	250mm.
Front Panel I/O	No Front I/O. Vandal Switch 16mm Power & Reset.
Vertical GPU Mount	x1 with PCIE 5.0 Riser
Vesa Mount	200mm x 200mm M6.
Materials	6061 Aluminum Anodized. Cast Acrylic. Steel. PCB.
Manufacturing Process	CNC Mill, CNC Lathe, CNC Router, Folding Steel, PCB.
Assembly	Distribution Plate Assembled by Hand. Metal Components need to be assembled and attached to the distribution plate by the customer.
Testing / Validation	All Distribution Plates are factory pressure tested and precise fastener tension is applied.

❶ *Important Information*

Please make sure to use the included O-Rings when installing the pumps. Remove the pump covers from the distribution plate, install the O-Rings into the O-Ring grooves on the pump tops. Then push the pump into the pump top and screw the cover on. Tighten the pump covers down firmly. We strongly recommend pressure testing your build prior to filling the loop. Contact support@singularitycomputers.com with any questions.

Diagrams

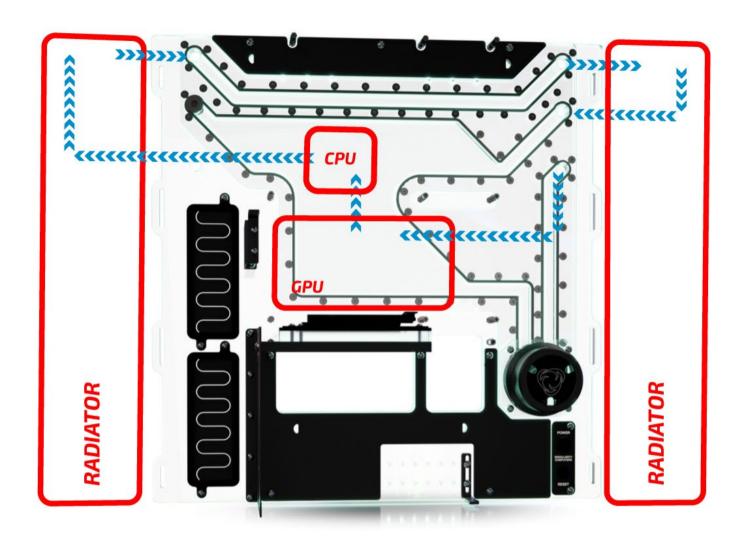ℹ Dimensions are in millimetres

M4-M4 21.5mm standoff x12
Motherboard
PowerBoard
M3-M4 18mm standoff x9
PowerBoard M4 6mm BH x3
M4 8mm BH x5
Motherboard M3 8mm BH x9
M3 18mm BH x3
M3 7mm washer x3
M6 10mm BH x2
PSU #6-32 0.35" x4

With the PowerBoard: M4-M4 21.5mm x12
Without the PowerBoard: M3-M4 18mm x9 (bottom row empty)
M4 8mm BH x2
VGPU 90 degree bracket
#6-32 0.25" x4
VGPU 3mm acrylic
VGPU 10mm acrylic
GPU stand
M4 8mm BH x2
2nd VGPU 90 degree bracket as PSU support

From radiator (front and rear)
Fill/bleed (front and rear)
Pass through
To radiator (front and rear)
From radiator (front and rear)
To GPU
Drain (rear)

120-class radiator mount
200
125
100
140-class radiator mount
200
100
VESA FDMI MIS-D M4
VESA FDMI MIS-F M6
M4 10mm BH x12
105