

Forum:[Hack Forums](#)

Thread: [Finally got my "re-build/loop" done!](#)

Gt403cyl - July 21, 2015, 9:33 pm

Well sort of, I do plan to change a few things around with the tubing and eventually a new case better suited for custom loops.

Anyways here is the build:

<https://ca.pcpartpicker.com/list/p9Frnn>

Here are the loop items:

Spoiler ([Click to View](#))

Pump res: <http://www.performance-pcs.com/d5-photon-170-reservoir-pump-combo.html>

CPU Block: <http://www.performance-pcs.com/ek-supremacy-evo-cpu-water-block-copper-plexi.html>

Coolant: https://www.dazmode.com/store/product/x1-red-100ml_copy_1

Lights:

<https://www.dazmode.com/store/product/12in-30cm-darkside-connect-dimmable-rigid-led-strip-uv/>

360 rad: <http://www.performance-pcs.com/alphacool-nexxxos-st30-full-copper-360mm.html>

280 Rad: <http://www.performance-pcs.com/alphacool-nexxxos-ut60-full-copper-280mm.html>

Fans (120mm): <http://www.ncix.com/detail/noctua-nf-f12-industrial-ppc-2000-4b-97672.htm>

Fans (140mm): <https://www.newegg.ca/Product/Product.aspx?Item=9SIAB984BD9855>

Tubing:

<https://www.dazmode.com/store/product/none-chamfer-petg-link-tube-od-12mm-length-500mm>

GPU block: <http://www.ncix.com/detail/ek-water-blocks-ek-fc-titan-21-108234.htm>

GPU backplate: <http://www.ncix.com/detail/ek-water-blocks-ek-fc-titan-21-107168.htm>

Flow meter: <https://www.dazmode.com/store/product/flow-indicator-g14-square-acetal-17350>

Fittings: (\$390 in fittings alone...)

1x

<https://www.dazmode.com/store/search/?query=Dual+IG1%252F4%2522+F%252FF+Extender-20MM+-+Black+Sparkle&records=16&x=0&y=0>

2x

https://www.dazmode.com/store/product/dual_ig1_4_penta_rotary_extender_45-180_degree_black_sparkle

6x <https://www.dazmode.com/store/product/90-degree-with-dual-inner-g14-extender-black-sparkle>

2x

https://www.dazmode.com/store/product/g1_4_90_45x2_degree_g1_4_adapter_extender_-_black_sparkle

2x

https://www.dazmode.com/store/product/8mm_spacer_extender_adapter_-_g1_4_male_female_-_black_sparkle/

6x

https://www.dazmode.com/store/product/stop_plug_fitting_-_g1_4_black_w_slot_-_black_sparkle/

25x

<https://www.dazmode.com/store/product/g14-enhanced-multi-link-adapter-12mm-od-rigid-tube-black-sparkle/>

1x

https://www.dazmode.com/store/product/5mm_spacer_extender_adapter_-_g1_4_male_male_-_black_sparkle/

1x Drain valve: https://www.dazmode.com/store/product/ball_shutoff_mini-valve_-_matt_black/

Sleeving:

<https://www.dazmode.com/store/product/564-2mm-darkside-hd-cable-single-wire-sleeving-jet-black/>

Warning Large Pics!:

Spoiler ([Click to View](#))

No real questions just a completed build.

CyberneticTitan - July 21, 2015, 9:49 pm

Looks very nice. How are temps looking and how much did this cost you? ?

Gt403cyl - July 21, 2015, 9:57 pm

(Jul 21, 2015 09:49 PM)CyberneticTitan Wrote: [\[CITE\]](#) Looks very nice. How are temps looking and how much did this cost you? ?

CPU temps 4.6GHz @ 1.285v are 62-65C thats 10C lower than with the H90 AIO

Haven't really checked the GPU temps yet...

The Loop total was about \$1500 CAD (\$1150 USD)

The pc parts I don't remember the total on but from last fall to now the prices changed so I'll estimate the total build at about \$3500 CAD ish (\$2700 USD)

archangel.dmitry - July 21, 2015, 10:21 pm

Can you post benchmarks stock vs OC'd?

Gt403cyl - July 21, 2015, 10:26 pm

(Jul 21, 2015 10:21 PM)archangel.dmitry Wrote: [\[CITE\]](#) Can you post benchmarks stock vs OC'd?

Here are my Idle temps Room temp is 21°C:

Spoiler ([Click to View](#))

Benchmarks:

Stock clocks on everything:

<http://www.3dmark.com/3dm/11947480> - New drivers aren't excepted yet.

<http://www.3dmark.com/3dm/11947511>

<http://www.3dmark.com/3dm/11947545>

OC'ed CPU, GPU, better Ram timings:

<http://www.3dmark.com/fs/8413495>

<http://www.3dmark.com/fs/8413527>

<http://www.3dmark.com/fs/8413551>

Valley Stock:

Spoiler [\(Click to View\)](#)

Valley OC'ed:

Spoiler [\(Click to View\)](#)

Furmark Stock:

Spoiler [\(Click to View\)](#)

Furmark OC'ed:

Spoiler [\(Click to View\)](#)

Heaven Stock:

Spoiler [\(Click to View\)](#)

Heaven OC'ed:

Spoiler [\(Click to View\)](#)

Cinebench R15 Stock:

Spoiler [\(Click to View\)](#)

Cinebench R15 OC'ed:

Spoiler [\(Click to View\)](#)

Games:

COD: Ghosts - 91 FPS full max settings at stock clocks (game is capped at 90/91)

COD: AW - Don't remember and nobody is ever online so will check later.

GTA V: OC'ed full max settings 8x MSAA avg 58FPS drops to 48fps, MSAA at 4x gets 120FPS min 80FPS.

CS:GO - 300fps full max settings.

Minecraft lol: 150-280 FPS depends on the server and whats going on.

Batman Arkham Knight Stock: Full max settings gets avg 60 FPS min 50FPS.

Batman Arkham Knight OC'ed: Full max settings gets avg 89 FPS min 85FPS.

GRID Autosport Stock: Full max settings gets avg 148 FPS min 133FPS.

GRID Autosport OC'ed: Full max settings gets avg 180 FPS min 160FPS.

Added more results in the post above this.

My current games, Cinebench R15 and SuperPi for the fun of it.

Also changed to the current pic of the loop.

Gt403cyl - May 8, 2016, 9:58 pm

All results updated with 32GB ram and latest driver, which lowered the scores on the synthetic benchmarks.....

archangel.dmitry - May 9, 2016, 6:27 am

While I wouldn't invest so much in cooling especially when benefits are not justified to me. I can tell you that the build looks clean. Thank you for providing benchmarks.

Why did you upgrade to 32GB? Usually this section insists that you need 8GB, max 16.

Gt403cyl - May 9, 2016, 6:45 am

(May 9, 2016 06:27 AM)archangel.dmitry Wrote: [\[CITE\]](#) While I wouldn't invest so much in cooling especially when benefits are not justified to me. I can tell you that the build looks clean. Thank you for providing benchmarks.

Why did you upgrade to 32GB? Usually this section insists that you need 8GB, max 16.

Well the thing is I was completely fine at the 16GB.....

I did some work for a family member and they had a link to a wishlist.... they bought the ram I had originally bought as payment because it went on sale... It is a complete waste for the use I have of my PC and I state that.

Here is a comparison of my previous best FS score to the most recent run, with higher clocks it did worse mainly due to drivers and FS updates...

<http://www.3dmark.com/compare/fs/8413495/fs/7010825>

Gt403cyl - July 25, 2017, 2:56 am

Updated with a current pic, changed fluid and thermal paste last night:

Spoiler [\(Click to View\)](#)

I will say this loop is a PITA to bleed the air out of.... even with the pump at full strength it took 3 hours of tilting the case to different angles to get the rads air free....

TheGoyimKnow - December 27, 2017, 1:51 pm

why not bend the tubing instead of using expensive 90 degree fitting?

webdev77 - December 27, 2017, 2:52 pm

(Dec 27, 2017 02:51 PM)TheGoyimKnow Wrote: [\[CITE\]](#) why not bend the tubing instead of using expensive 90 degree fitting?

Even though this is from several months ago I can help answer that: aesthetics and ease of building. It's a pain in the rear to bend tubing and make it look good.

Gt403cyl - December 27, 2017, 3:01 pm

(Dec 27, 2017 02:51 PM)TheGoyimKnow Wrote: [\[CITE\]](#) why not bend the tubing instead of using

expensive 90 degree fitting?

(Dec 27, 2017 03:52 PM)webdev77 Wrote: [CITE](#) Even though this is from several months ago I can help answer that: aesthetics and ease of building. It's a pain in the rear to bend tubing and make it look good.

Well I did do a bends only loop originally, I've changed it around several times...

Currently it's far different from those pics, I'm running a separate loop for the CPU and GPU now, I honestly am still not really happy with the look, I eventually want to get a better case and it's just not budget friendly right now.

But to answer the question of why so many fittings.... because I can I guess....

PolyGram - *October 10, 2018, 4:32 pm*

pretty neat pc

good job on it