



CRYPTO CACHE  
MINING

# TITAN HYDRO

Catalogue Specification Document



# INTRODUCTION

Some say that creativity is thinking up new things.

At Crypto Cache Mining (a division of CEGEN Green Energy Ltd.), we believe that innovation is doing new things. Our Crypto Cache mining pod is no exception.

We have taken aging crypto currency miner designs and advanced them to the next frontier of innovation. By using innovative air handling techniques, liquid immersion cooling, and by harnessing the latest in construction principles, our Crypto Cache miners deliver outstanding margins.

Each Crypto Cache structure is designed to handle up to 5 MW of power. Need more power? No problem. Simply add more Crypto Cache structures to your installation.

All HVAC, cabling, connections, and base structural elements are manufactured and assembled off-site.

The result? Plug and play - start mining right away.

We invite you to peruse the details in this document. As always, we stand ready to help you and your project achieve success.



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# EXECUTIVE SUMMARY

## INTRODUCTION

### DOCUMENT HIGHLIGHTS

- We are excited to work with you on your project.
- We have included drawings and illustrative racking layouts in this quote for your information.
- Included in this document are specifications, data and budgets related to both the Titan Hydro 1 MW and 2.8 MW (liquid immersion) pods.

In Crypto Cache's continuous efforts to bring the innovative container solutions to the market, we would like to introduce the Titan Hydro.

With manufacturing partners in Canada and the USA, we can meet your timelines and budgets to get you deployed and mining asap.

## 2.8 MW TITAN HYDRO SCOPE

### System Style:

- Single Loop Single Phase (SLSP)

### Number of Rigs

- 864

### Dry Coolers:

- 3 x 1.2MW Coolers Variable Speed
- Whisper Quiet Fans

### Pumps:

- 3 x 20HP 600 GPM Variable Speed

### Gallons of Fluid per Pod:

- Advanced fluid management called Thermacoin
- 5040 gl.

### PDUs:

- 24 Port 3850W per plug

### Plumbing Material:

- CPVC Schedule 80

### Benefit of Vertical Tanks:

- Higher density
- 3x as dense than a single layered unit

### Overclocking:

- Up to 40% higher hashrate
- 

### Field Installation:

- Faster deployment times
- Minimal field time required - all systems are delivered pre-assembled
- Flexible delivery capabilities (road and railway)

Enclosure Specifications:

- Dimensions : 54' x 13' x 11'9" eave
- Robust self-framing construction, the same used for industrial buildings around the world that have high snow loads, wind loads and have been installed in hurricane areas.
- STC 30 wall make up for superior noise mitigation
- R12 wall and R20 roof
- 22 ga metal fluted internal liner
- Robust skids that enable craning into place and ability to be moved in the future

## 2.8 MW TITAN HYDRO BUDGET

Titan Hydro Pod	
Rack Cost	\$13,162
Tank Cost	\$163,641
Dry Coolers/Plumbing	\$289,332
Fluid Cost	\$203,445
PDU Cost	\$121,500
Electrical Cost	\$152,550
Enclosure	\$107,865
Assemblyman Hours	\$24,789
<b>Total Hydro Pod FOB</b>	<b>\$1,076,284</b>
Field Costs	
Installation (4 men/2days)	\$9,600
Subsistence	\$3,200
Fluid	\$267
Dry Cooler Installs	\$1,152
Crane (one day)	\$6,000
Shipping estimate (2 trucks)	\$12,000
<b>Total Field Costs</b>	<b>\$50,219</b>

Notes:

- All prices are in **United States Dollars (USD)** due to manufacturing is USA based.
- The Titan Hydro will be manufactured and assembled in Sharon, PA
- Engineering and design are a onetime charge applied to one Titan.
- Taxes (if applicable) are not included.
- A 2% monthly charge will be applied to all overdue accounts.
- A 5 % quantity discount on Titan Hydro pods apply to orders of 5 or more pods. To be confirmed upon pod selection(s).
- \*Field costs include engineering, design, shipping, labor for installation (excluding electrical work externally of Titan Hydro).
- **Due to the volatile supply chain, prices and timelines are subject to review and could change upon ordering.**

# 1 M W T I T A N H Y D R O S C O P E

## System Style:

- Single Loop Single Phase (SLSP)

## Number of Rigs

- 300

## Dry Coolers:

- 1 x 1.2MW Coolers Variable Speed
- Whisper Quiet Fans

## Pumps:

- 1 x 20HP 600 GPM Variable Speed

## Gallons of Fluid per Pod:

- Advanced fluid management called Thermacoin
- 5040 gl.

## PDU:

- 24 Port 3850W per plug

## Plumbing Material:

- CPVC Schedule 80

## Benefit of Vertical Tanks:

- Higher density
- 3x as dense than a single layered unit

## Overclocking:

- Up to 40% higher hashrate

## Field Installation:

- Faster deployment times
- Minimal field time required - all systems are delivered pre-assembled
- Flexible delivery capabilities (road and railway)
- Dimensions : 20' x 13' x 11'9 » eave
- Robust self-framing construction, the same used for industrial buildings around the world that have high snow loads, wind loads and have been installed in hurricane areas.
- STC 30 wall make up for superior noise mitigation
- R12 wall and R20 roof
- 22 ga metal fluted internal liner
- Robust skids that enable craning into place and ability to be moved in the future

# 1 MW TITAN HYDRO BUDGET

Titan Hydro Pod	
Rack Cost	\$4,185
Tank Cost	\$52,000
Dry Coolers/Plumbing	\$111,500
Fluid Cost	\$64,750
PDU Cost	\$46,800
Electrical Cost	\$48,500
Enclosure	\$46,750
Assembly Man Hours	\$10,800
<b>Total Hydro Pod FOB</b>	<b>\$385,285</b>
Field Costs	
Installation (2 men/2days)	\$4,800
Subsistence	\$1,600
Fluid	\$135
Dry Cooler Installs	\$580
Crane (one day)	\$6,000
Shipping estimate (2 trucks)	\$20,000
<b>Total Field Costs</b>	<b>\$33,115</b>

Notes:

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- A 5 % quantity discount on Titan Hydro pods apply to orders of 5 or more pods. To be confirmed upon pod selection(s).
- \*Field costs include engineering, design, shipping, labor for installation (excluding electrical work externally of Titan Hydro).
- **Due to the volatile supply chain, prices and timelines are subject to review and could change upon ordering.**

## CHANGE ORDER PROCEDURES

Once an order has been placed, changes in scope of work requested by Purchaser or changes required as dictated by design or measure up will be evaluated and all detailed changes in materials, labor costs and timing impact will be reassessed.

The Purchaser will then be notified through our Change Order Process.

Subsequently, CEGEN will further require a PO# or AFE# reflecting the cost adjustments before proceeding.

Respectfully submitted,

*Steve Morgan*

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# TITAN 2.8 MW HYDRO RENDERINGS

Additional imagery available here: <https://cryptocachemining.com/>

Liquid Immersion Model:





# CRYPTO CACHE

MINING

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