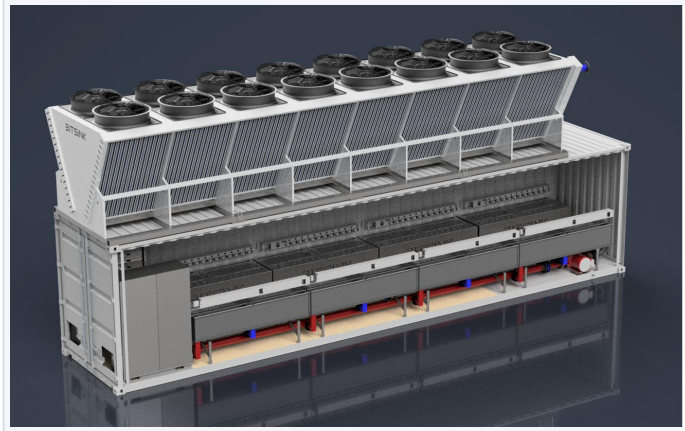
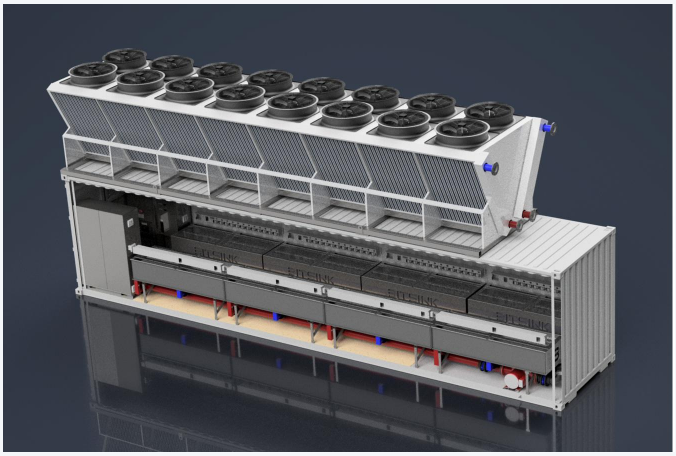
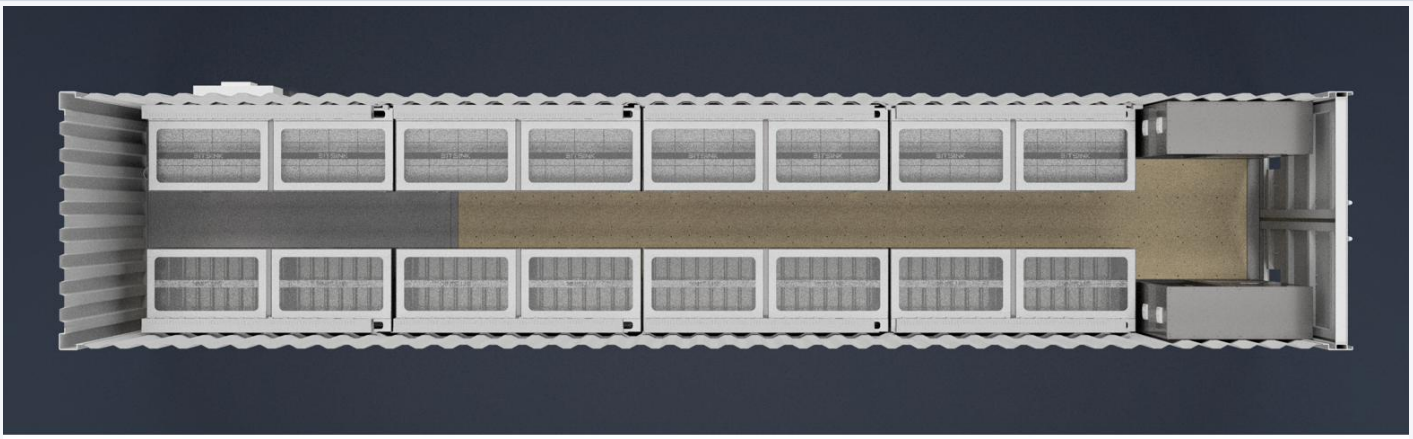
Immersion Mining Container V5

1 MW · DIELECTRIC-OIL IMMERSION 40 ft HC container · 8 × V5 tanks · roof-mounted 1,100 kW dry cooler · autonomous control







Cutaway views with roof-mounted cooler (top) · interior tank plan (bottom)

1. SYSTEM OVERVIEW	
Type	Containerized single-phase dielectric-oil immersion mining system
Model	Immersion Mining Container V5
Rated capacity	1 MW (1,000 kW) heat load
Cooling	In-tank oil immersion + roof-mounted dry cooler
Immersion tanks	8 × BitSink V5
Computer capacity	Any ASIC / crypto miner (Bitmain S21 immersion, Whatsminer, Avalon, etc.)

2. CONTAINER & ENCLOSURE	
Container type	40 ft High-Cube ISO container
Exterior L × W × H	40 ft × 8 ft × 9 ft 6 in
Exterior (metric)	12.19 × 2.44 × 2.90 m
Construction	Welded steel, weather-resistant
Cooler mounting	Roof-mounted on top deck
Handling	ISO corner castings — craneable, forkliftable, stackable

3. IMMERSION TANKS	
Quantity	8 × BitSink V5 immersion tanks
Dielectric fluid	Single-phase dielectric oil
Computer capacity	Any crypto mining computer; up to 24 Bitmain S21 immersion miners per tank
Heat load per tank	~110–125 kW
Fluid volume per tank	~228 US gal (861 L)
Tank connection	NPT 3 in coupling (2 per tank)
In-tank features	Miner flow plates, handles, flow guard
In-tank networking	2 × Netgear 24-port switch per tank

4. ROOF-MOUNTED DRY COOLER	
Model	BitSink 1,100 kW dielectric-oil dry cooler
Rated capacity	1,100 kW (dielectric oil)
Configuration	16-fan V-frame, roof-mounted
Fans	16 × Krubo K-EC910-W460-10 (Ø910 mm EC axial)
Coil	5/8 in copper tube, aluminum fin; 2 coils
Coil internal volume	745 L (197 US gal)
Overall L × W × H	448 × 87.5 × 99.1 in (11.4 × 2.2 × 2.5 m)
Dry weight	~3,700 kg (8,157 lb)
Power input	380/480 V – 3 Phase, 60 Hz

5. POWER & CONTROL	
Control panels	2 × BitSink 1200 A industrial control panels (UL 508A)
Total service	2 × 1,200 A
Supply voltage	480Y/277 VAC, 3-Phase, 60 Hz
Short-circuit rating	65 kA SCCR
Main disconnect	Per-panel Noark M6N1200E3 MCCB
Autonomous control	Closed-loop fan-speed & pump-speed modulation

6. POWER DISTRIBUTION (PDU)	
Standard PDU	250 A, fused
Quantity	1 per tank (8 total)
Receptacles	24 × PA45
Overcurrent protection	Branch fusing (fused outputs)
Listing	UL listed
Monitoring	Smart per-branch metering, networked (billing-grade ±1%)
Input voltage	415Y/240 or 480Y/277 VAC, 3-phase (configurable)
Mounting	Tank-side, immersion-rated
Configurability	Field-swappable to any customer-specified PDU

7. CIRCULATION PUMPS & PLUMBING	
Pumps	2 × centrifugal, 500 GPM, 20 HP each
Total circulation	1,000 GPM (2 × 500 GPM)
Pump control	Variable-speed, autonomous
Plumbing	All-steel piping throughout
Working fluid	Dielectric oil
Flow protection	In-tank flow guard

8. NETWORKING & MONITORING	
In-tank switches	2 × Netgear 24-port per tank (16 total)
Total network ports	384
Remote monitoring	Temperatures, flow, pump/fan speed, power
Leak detection	Integrated
Control system	Full autonomous (closed-loop) operation
Alerting	Remote / networked notifications

9. RATINGS & OPERATING ENVIRONMENT	
System rating	1 MW (1,000 kW)
Total dielectric oil	~2,200 US gal (8,300 L), system (est.)
Operating weight	~22,000 kg (~48,500 lb) (est.)
Computer load (typical)	192 × Bitmain S21 immersion miners (24 per tank, 8 tanks)
Ambient temperature	–25 to +50 °C (outdoor, all-weather)

10. SAFETY & CERTIFICATIONS	
Leak detection	Integrated tank & plumbing leak sensing
Fire safety	Detection standard; suppression optional
Listings	UL 508A control panels · UL-listed PDUs
Grounding & bonding	Per NEC; container-bonded
Transport	ISO container — road, rail & sea
Deployment	Outdoor, all-weather

■ Heat load and miner count depend on the miner model and clock; the 1 MW rating provides headroom for higher-wattage or overclocked ASICs. Total fluid volume, operating weight and outdoor ambient range are design estimates — confirm final site configuration with the factory.