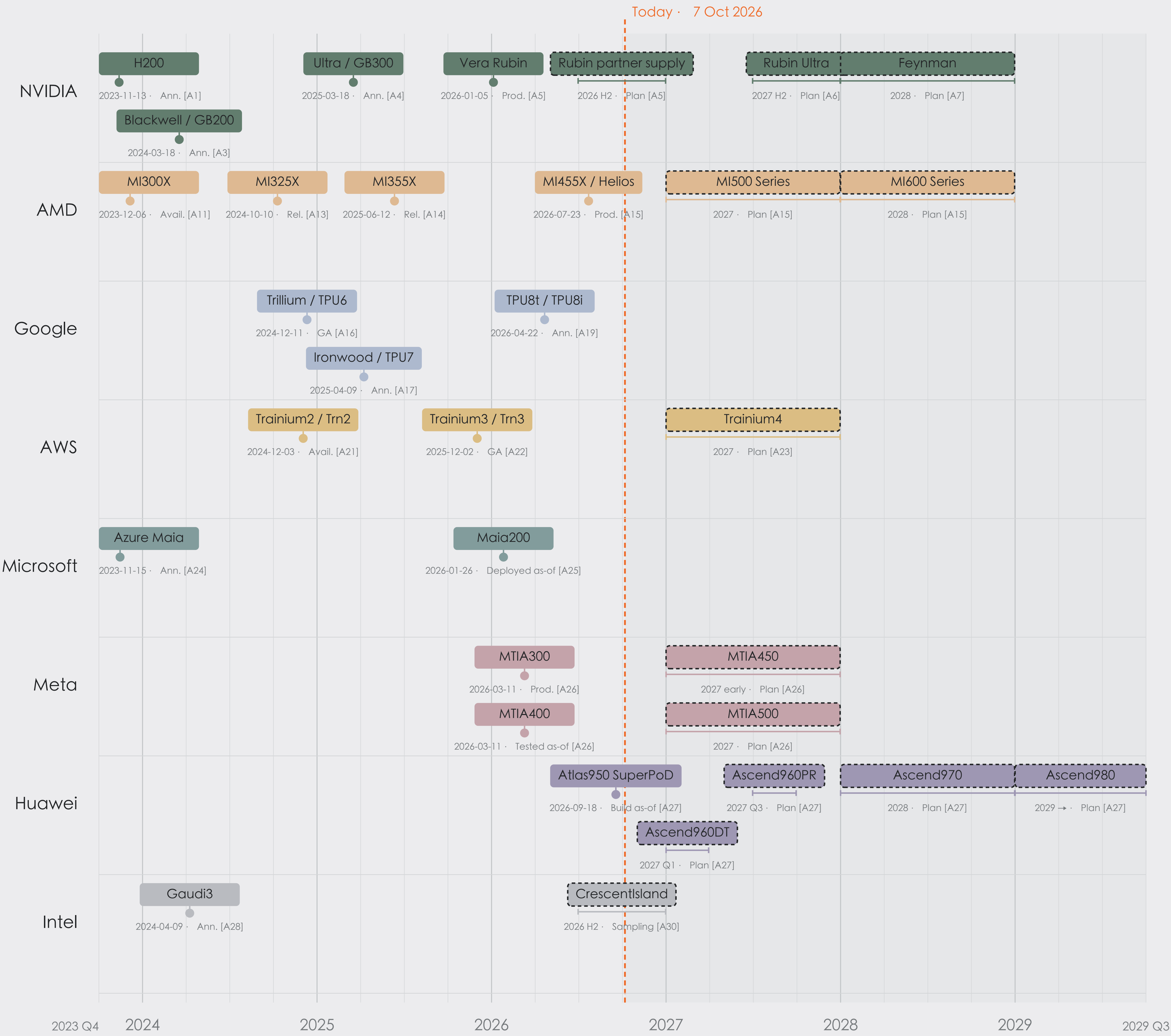


AI chips & platforms · Product roadmap

Oct 2023–Sep 2029: official events and plans from eight vendors; latest updates preserve source date precision.



Events and availability

In-production disclosures do not date first production. Ironwood is currently GA; TPU8 is coming soon. Crescent Island is a sampling target, not GA.

Latest plans supersede reference

AMD MI500 / MI600: 2027 / 2028 [A15]. Huawei 960DT / PR: Q1 / Q3 2027 [A27]. Early year is not a verified Q1; Ascend980 continues beyond this chart.

Precision and gaps

Dots mark day-specific events; dashed capsules label plans; short lines below preserve date windows, not lifetimes. Unverified successors stay absent. Sources checked 7 Oct 2026.

Ann. = announcement; Prod. / Deployed / Tested / Build = status as of source date; Plan = official target. Full events and source keys: evidence appendix.

DC Intelligence Hub · Official sources checked 7 Oct 2026 · Local research draft

Sources: see appendix

AI chips & racks · Product benchmark

Disclosed power distributions: chip / module W and cabinet kW stay separate; each TDP, TGP, TBP and design-power boundary is labeled.

● NVIDIA ● AMD ● Microsoft ● Meta ● Intel

Chips / accelerators / modules · W



Cabinets · kW (separate boundaries)

Designed rack power

GB200 NVL72
● 120 kW [A3/A8]

GB300 NVL72
● 135 kW [A4/A8]

Cabinet TDP · reference design

Vera Rubin NVL72 (DSX)
◆ 330 kW [A5/A9]

MGX Gen1.1 (DSX)
◆ 198 kW [A9]

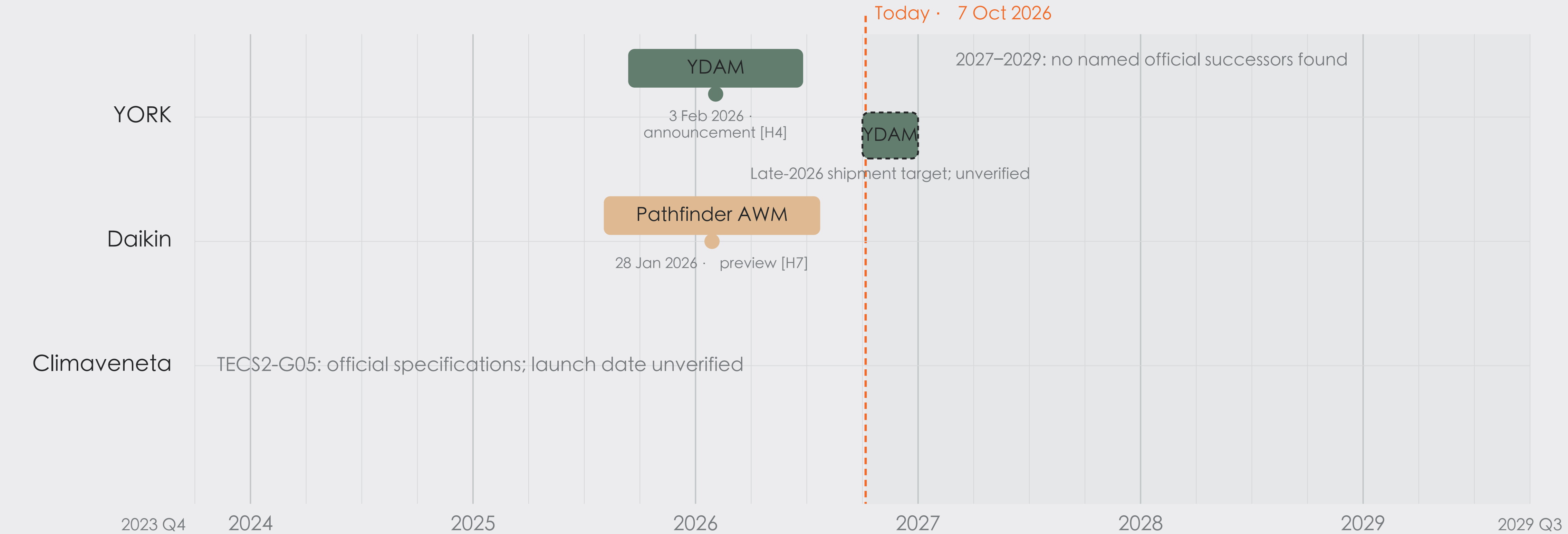
GB200 / GB300: Mission Control 2.3.0 designed rack power.
MGX / Rubin: DSX reference cabinet TDP, 19 Aug 2026. No
common-boundary trend is inferred; neither is measured
load or maximum AC input.

Google, AWS and Huawei lack verified absolute power;
missing is not zero. Rubin per-GPU, Helios rack and
Crescent Island power remain unverified; see notes.

Filled points = disclosed specifications; hollow points = official planned specifications. Meta uses Module TDP, AMD uses OAM TBP and Maia uses SoC TDP. This is a power distribution, not W/cm² heat flux, measured average load or product efficiency.

Air-cooled magnetic-bearing chillers · Roadmap

Oct 2023–Sep 2029: official event dates; announcements, demonstrations and delivery targets are distinguished.



Before the window

YVAM launched 18 May 2023 [H1], before this timeline; it is not relocated to Q4.

Specifications are not launches

TECS2-G05: Feb 2019 technical edition [H1 1]. AWM: Jul 2026 engineering edition [H8].

Plans and actual events

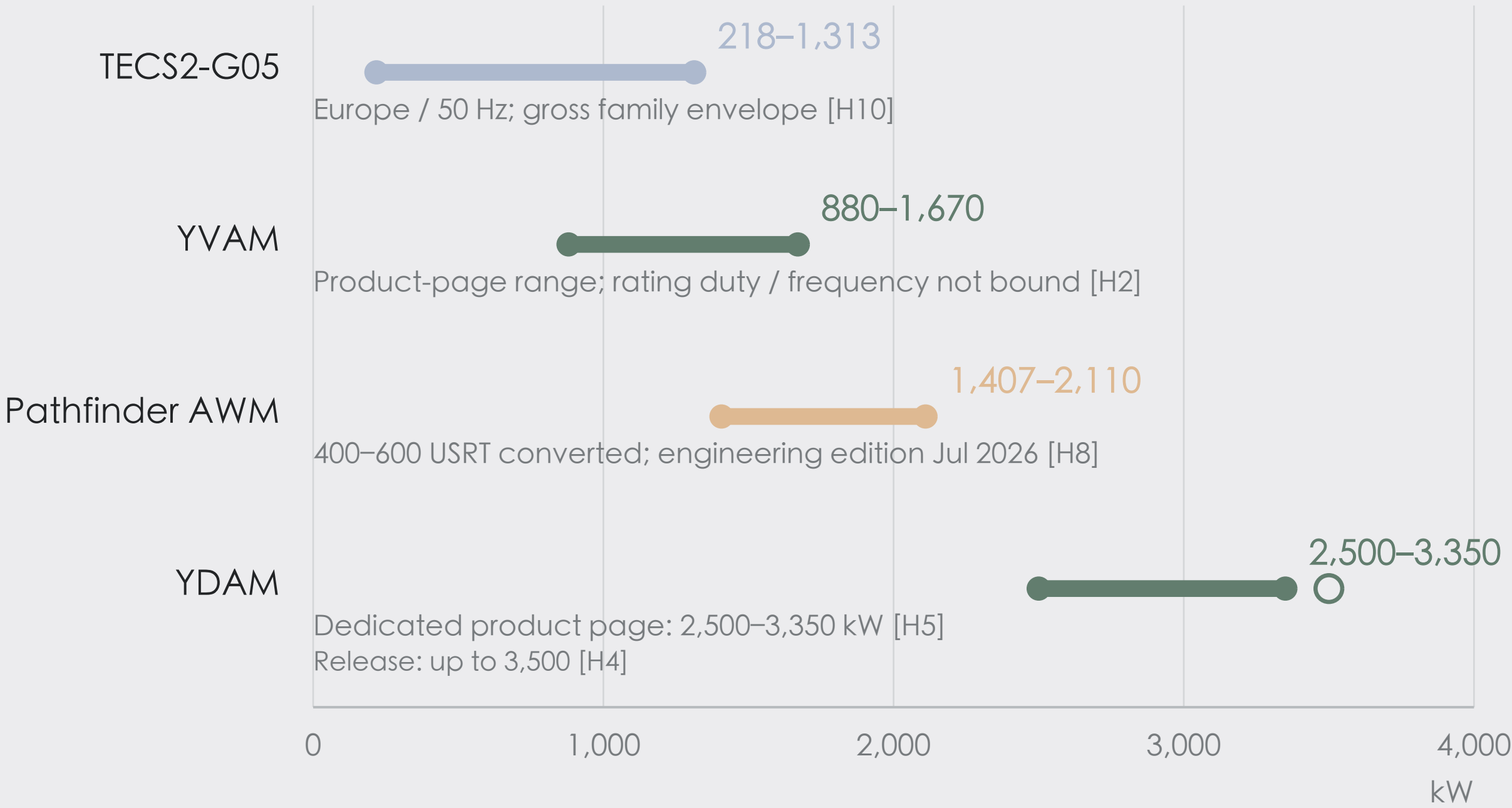
YDAM late-2026 shipping is a target [H4]; band position is approximate. AWM targeted early 2026; first shipment is unverified.

Dots = official events · Dashed boxes = plans or year-only dates · Capsules label events, not product lifetimes

Air-cooled magnetic-bearing chillers · Product benchmark

Disclosed cooling capacity and capacity per enclosure area; duty, configuration and source edition remain explicit.

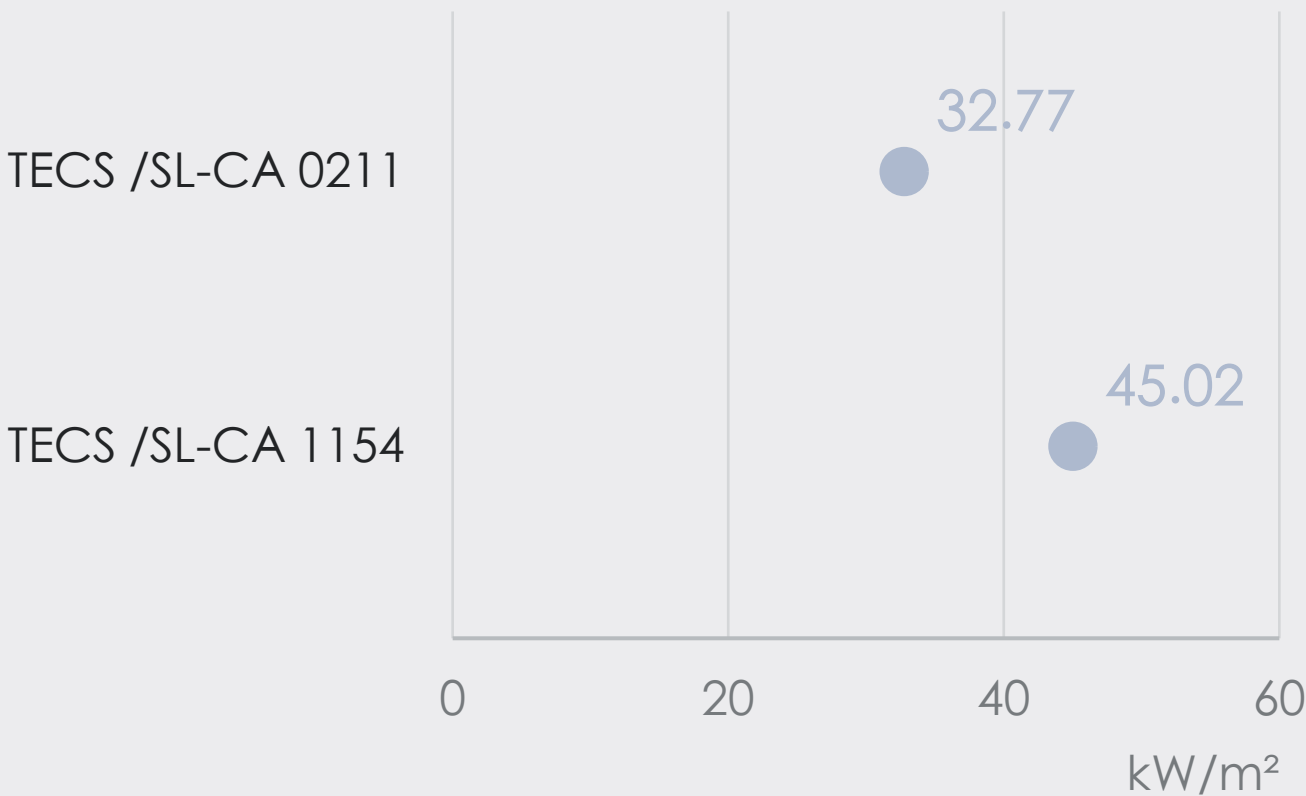
● YORK ● Daikin ● Climaveneta
Product-family capacity envelope · kW per unit



Density is the horizontal axis: net capacity ÷ (enclosure length × width). Example: $229.6 \div (3.10 \times 2.26) = 32.77$ kW/m². This is cooling per equipment rectangle, not efficiency or facility heat density.

Net capacity / enclosure area · kW/m²

Vertical axis: model / configuration



Separate scenario · ESTIMATE [D6]

◇ YDAM ≈83.7 kW/m²

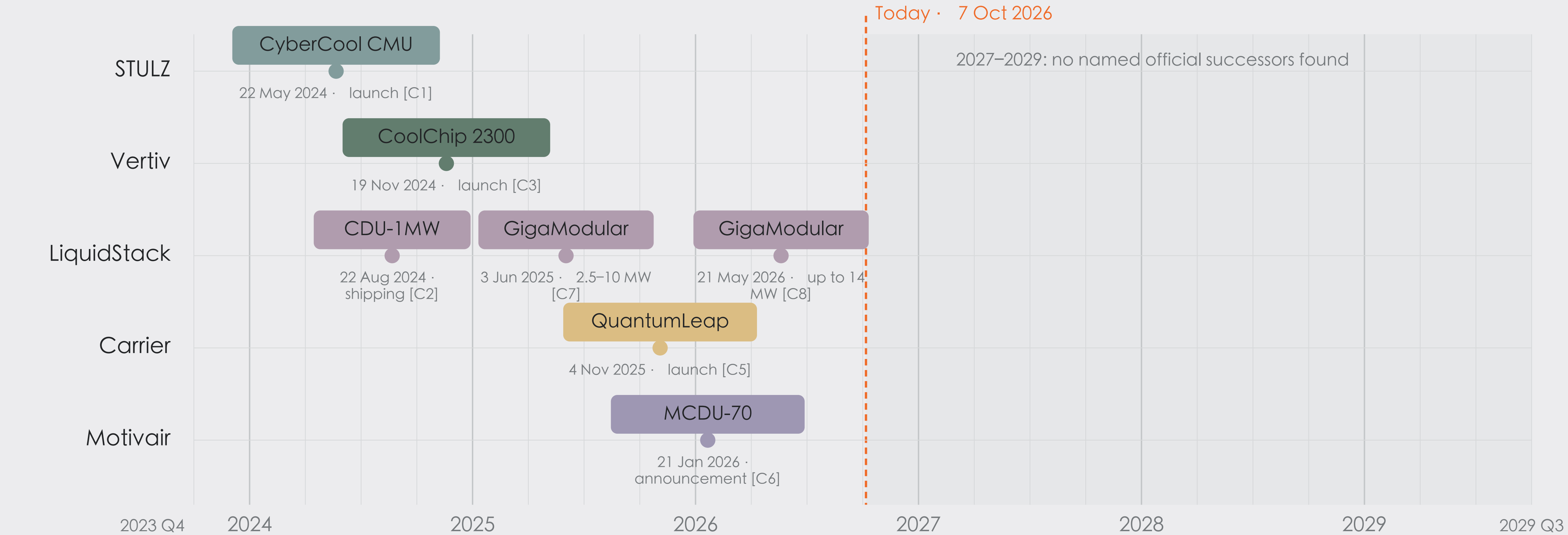
$3,500 \div (450 \times 0.09290304)$. Same official marketing card; exact model, duty and net/gross basis unverified. Not ranked against TECS net ratings.

TECS: 35° C entering air, 12/7° C water, EN14511 net, 400 V / 50 Hz; Feb 2019 [H11/D7]. Service/airflow/pipework clearances excluded. YVAM has dimensions but no matched model rating; AWM lacks paired dimensions. No estimate for these two.

Left: family envelopes. YVAM page: 880–1,670 kW; separate 60 Hz engineering edition: 880–1,750 kW [D1]. Region/refrigerant variants stay separate. AWM uses Jul 2026 [H8].

Coolant distribution units · Roadmap

Oct 2023–Sep 2029: official event dates; announcements, demonstrations and delivery targets are distinguished.



Undated products

CoolChip 600 / 1350; Silent-Aire PG25 / water designs.
Benchmark specs do not establish launch years.

Unit and modular boundaries

GigaModular 10 / 14 MW figures describe a system.
MCDU-70 2.5 MW describes one unit.

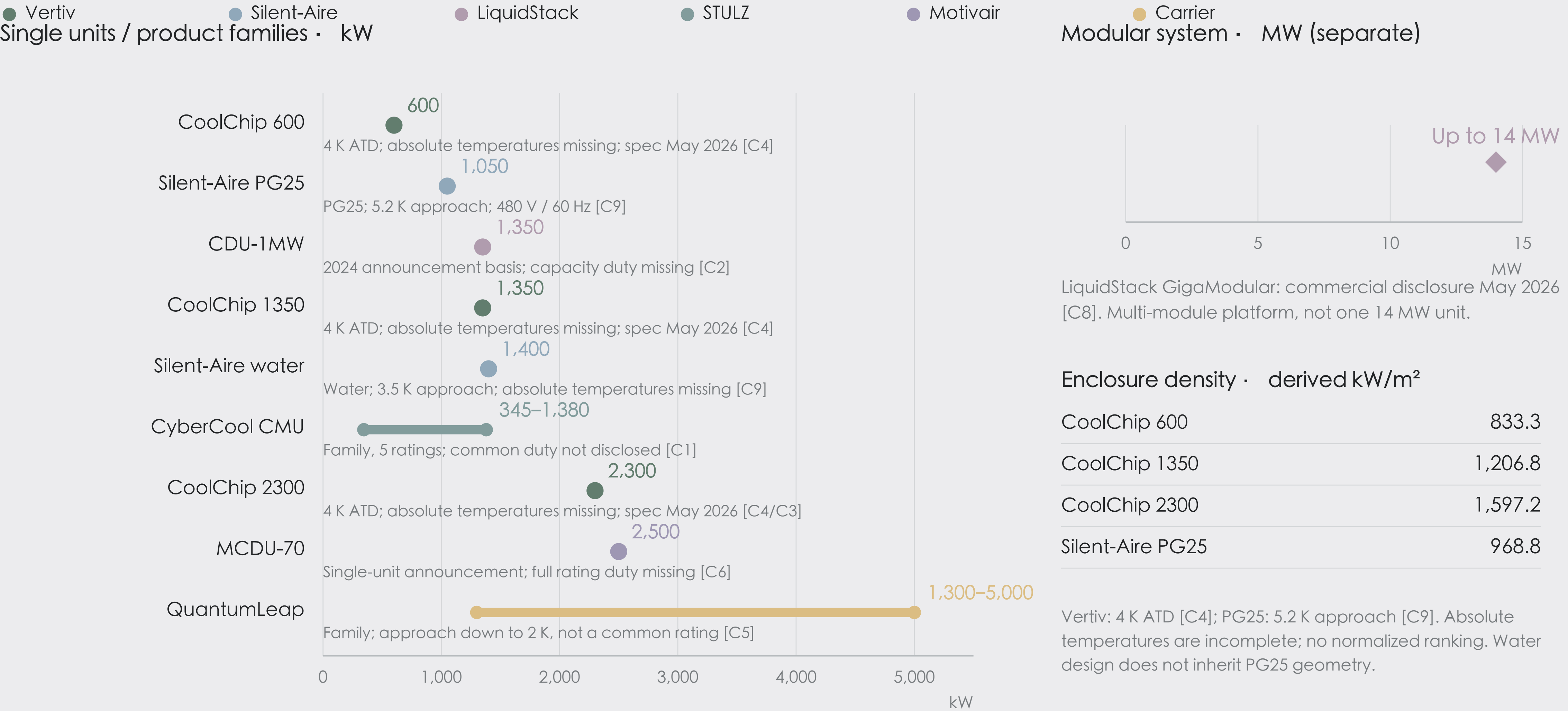
Current capacity: see benchmark

This timeline records events. Current specs are not automatically launch-day specs; Vertiv uses May 2026 [C4].

Dots = official events · Dashed boxes = plans or year-only dates · Capsules label events, not product lifetimes

Coolant distribution units · Product benchmark

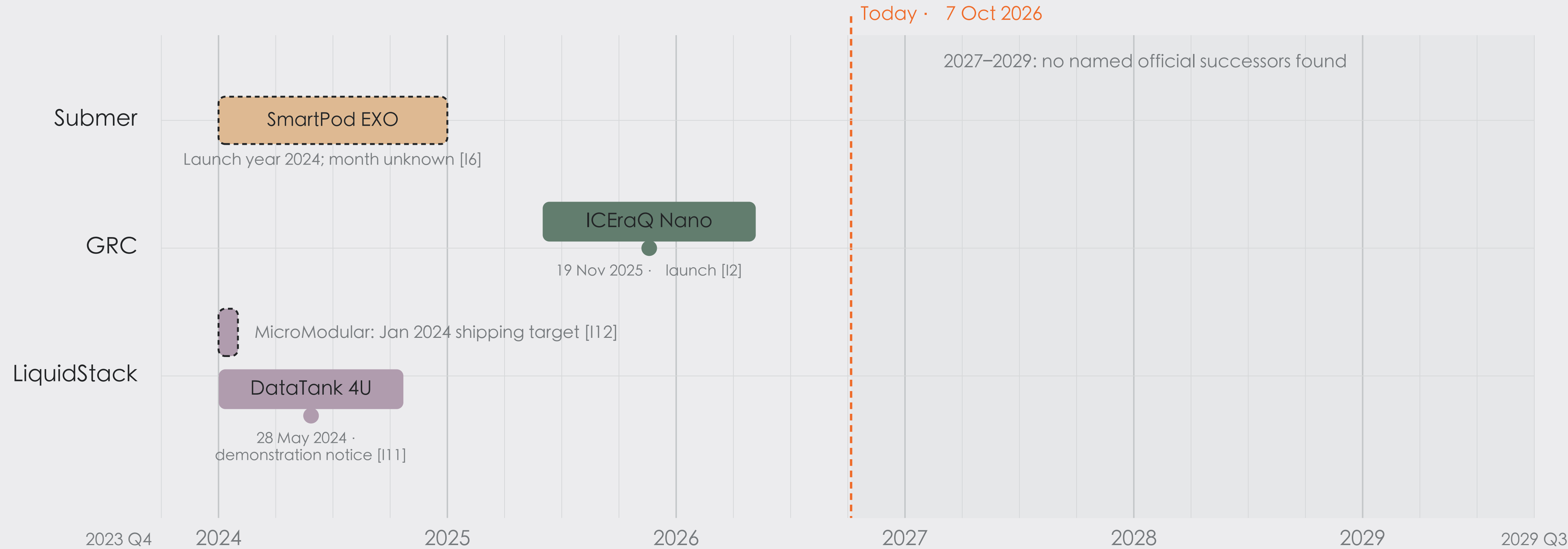
Disclosed cooling capacity and capacity per enclosure area; duty, configuration and source edition remain explicit.



Dots = disclosed ratings / claims; lines = family envelopes. Duties and liquids differ; capacity is not efficiency. Density uses capacity ÷ paired enclosure rectangle, excluding service area. Carrier’ s approach can be as low as 2 K, not a common rating point for every capacity.

Immersion cooling · Roadmap

Oct 2023–Sep 2029: official event dates; announcements, demonstrations and delivery targets are distinguished.



Launch date unverified

ICEraQ Micro, SmartPod EVO and DataTank 48U / 4U remain undated spec samples. The 4U 2024 event is a demo.

Launch and current specs

EXO launch year is 2024; today’ s up-to-361 kW claim is not a verified 2024 rating. LiquidStack specs date to 2021 / 2022.

Historical plans need verification

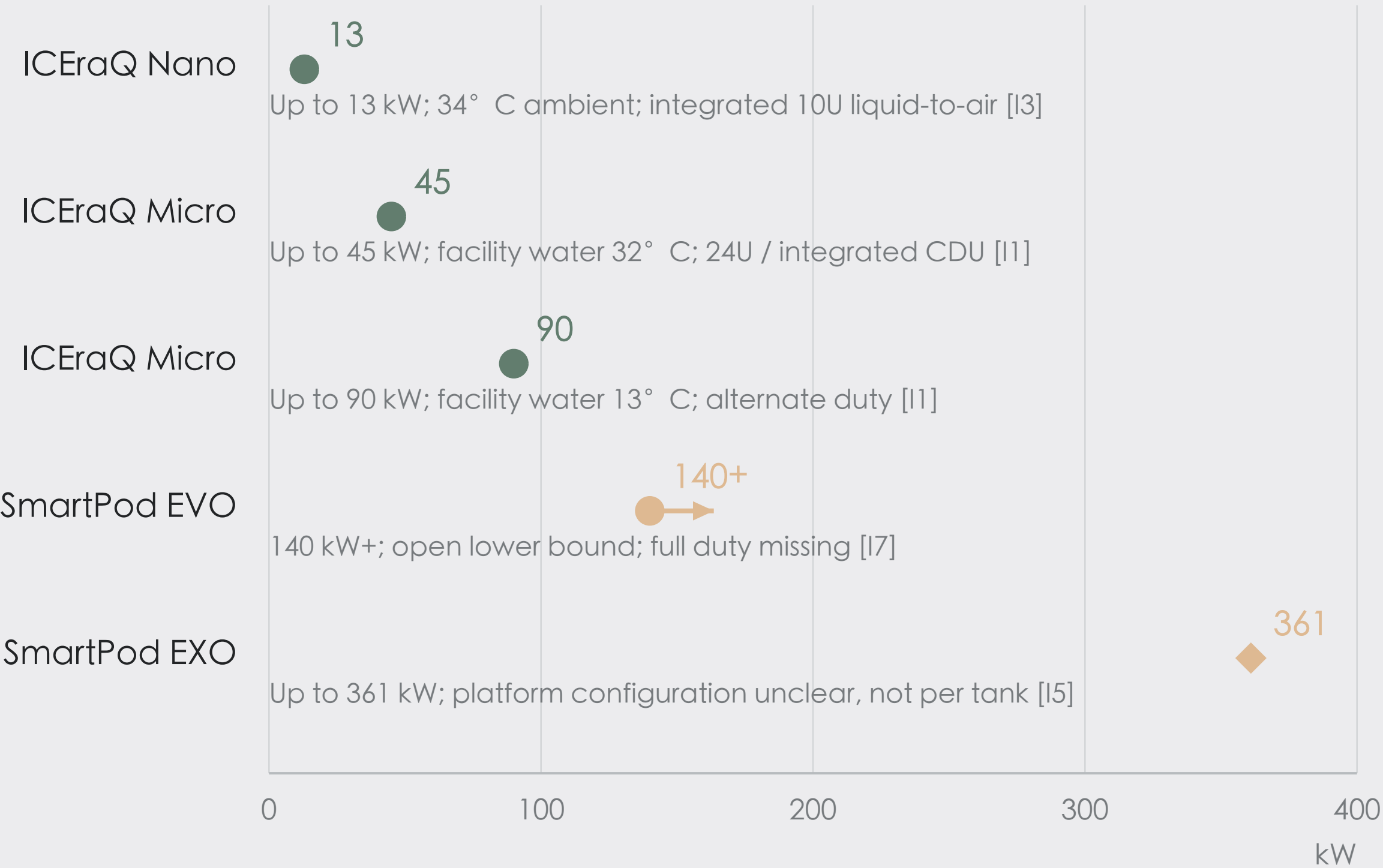
MicroModular’ s Sep 2023 release targeted Jan 2024 shipping [I12]. Actual delivery is unverified. No future releases are invented.

Dots = official events · Dashed boxes = plans or year-only dates · Capsules label events, not product lifetimes

Immersion cooling · Product benchmark

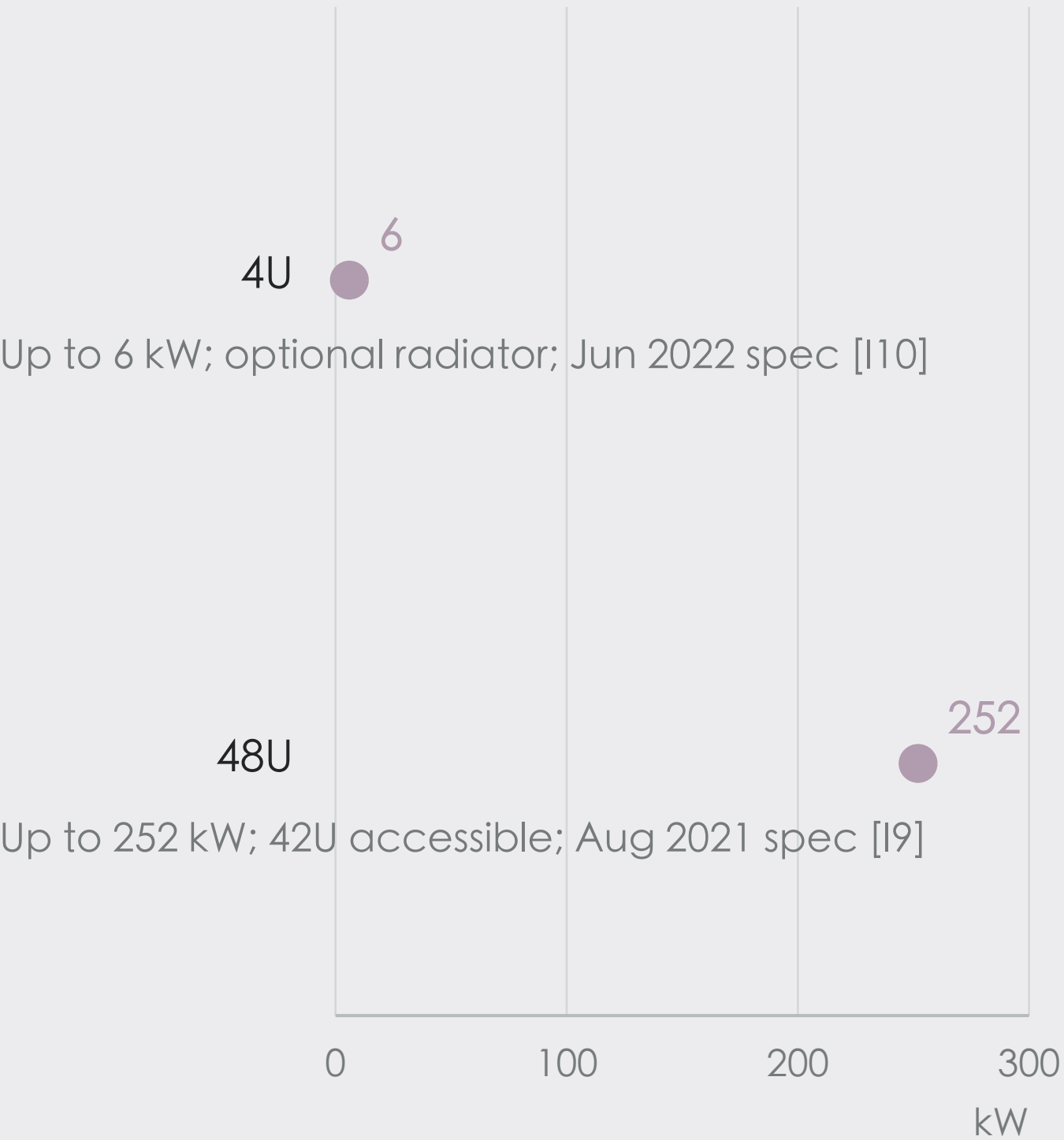
Disclosed cooling capacity and capacity per enclosure area; duty, configuration and source edition remain explicit.

● GRC ● Submer ● LiquidStack
Single-phase systems / platforms · kW



Micro points represent different water temperatures, not uncertainty. EVO’ s arrow preserves “140 kW+” ; no upper bound is invented. EXO’ s 361 kW is not bound to 60° C water or its 2024 launch.

Two-phase single tanks · kW



Derived enclosure density: 48U 83.06 kW/m²; 4U with radiator 9.30 kW/m². Duty unspecified; equipment rectangle only, not facility heat density.

All values are official vendor disclosures, not independently tested. Phase, tank / platform configuration and heat-rejection boundaries remain distinct; different water temperatures and fluids prevent a like-for-like ranking.