

Maybell

The Big Fridge

Engineered for scale,
designed for a quantum
future

With a base temperature below 10 mK, capacity for more than 10,000 Flexline traces, and more than 130 liters of sample volume, the Big Fridge offers unbeatable performance at scale.



Cool more with less:

innovative system design to better harness cooling power

More fridges per lab:

less than 20% the space of competing systems

1,000 μ W

cooling power @100 mK

130 liters

sample volume

Larger experiments:

130 L sample volume, 600 L total internal volume, 1,700 cm² wire capacity per plate

Iterate quickly:

bolt-free sample access and front-loading wiring inserts

10,000+

cold traces

Best-in-class reliability:

- no more scroll pump
- zero acid-flux or solder
- minimal rubber
- infinite life-cycle helium trap

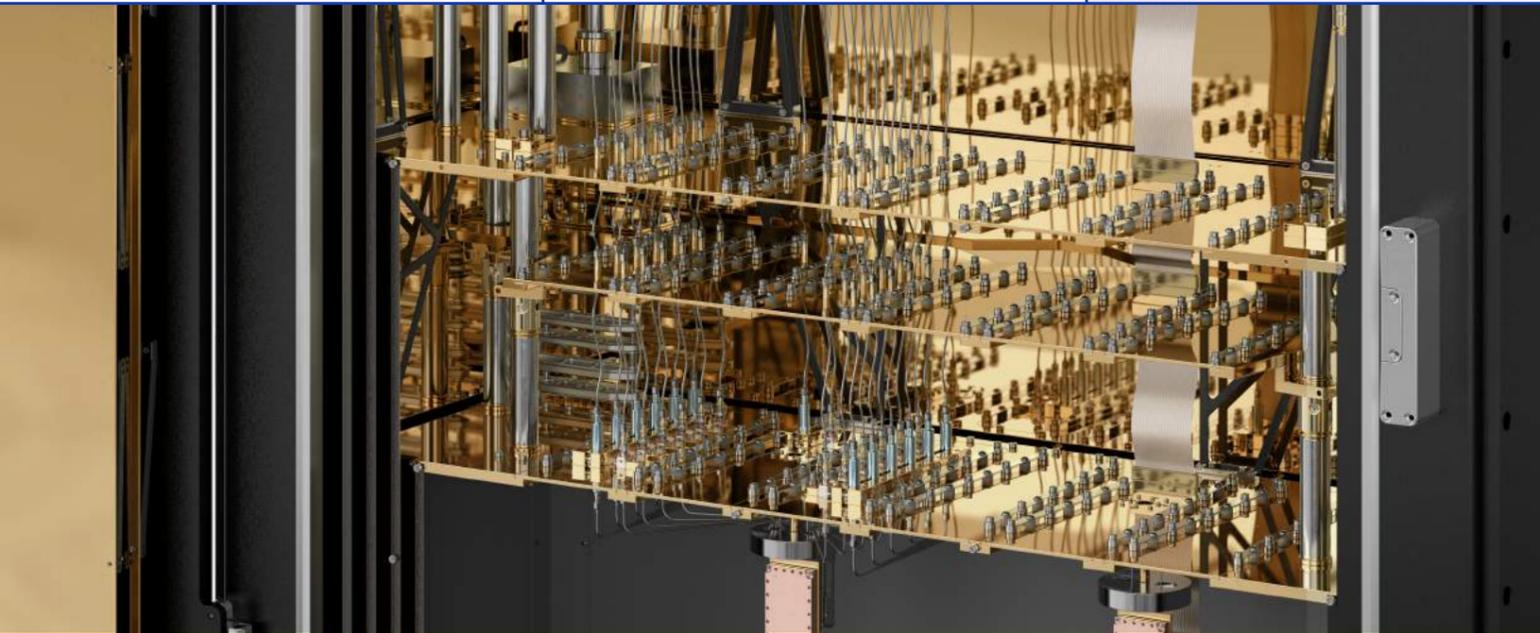
Less noise:

designed to minimize thermal, electrical, and acoustic noise

Smarter software:

open-source, secure, and easy to use

maybellquantum.com



Backward-compatible

All of our hardware is built for maximum compatibility, so you can upgrade to a Maybell system and port your wiring setups over from competitive systems

Service guarantee

All Maybell fridges are covered by an extensive service warranty with same day response and "roadside assistance."

Technical specifications

Base temperature	< 10 mK
Cooling power at 100 mK	> 1,000 μ W
Cooling power at 20 mK	> 28 μ W
Sample space volume	> 130 L below MXC; > 440 L above MXC (300 K – MXC)
Mixing chamber plate area	325 mm x 1,240 mm (> 4,000 cm ²)
SMA wire capacity	> 700
Maybell Flexline wire capacity	> 10,000 traces
Cool down time	< 36 hours