How to Identify a Reliable Freezer

Which features should you look for in your next Ultra-low Temperature (ULT) Freezer?

**Volumes**
Check for volumes in liter scale or box number scale

**Insulation**
Polyurethane foam is standard, Vacuum Insulated Panels are recommended for safe sample storage

**Gaskets**
Flat and flexible for optimal closing and lowest icing

**Door handle**
Ergonomically designed door handle for easy access to samples

**Energy savings**
Check the consumption of the freezer per day in KWh at -80 °C

**Compressor systems**
Proved two-stage compressor systems for long-term working conditions

**Warm up times**
After a power failure, the freezer needs to keep the samples cold as long as possible

**Interface**
Display to be located at eye-level for easy reading

**Vent port**
Manual or even automated vent port for quick re-access to samples

**Door recovery time**
Time to reach standard temperature of -80 °C after opening the freezer door; the shorter the time, the safer your samples

**Racks**
Freedom to operate with freezer boxes up to 136 mm in diameter

**Filter access**
Easy access to filter enables regular cleaning, resulting in better performance

**Gaskets**
Flat and flexible for optimal closing and lowest icing

**Headsy duty castors**
If needed, the freezer has to easily be moved to a new position

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**CryoCube F740hi 230 V/50 Hz Performance Graph**

- **Pull-down**
- **Warm-up**
- Typical average cabinet temperature

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**Temperature (°C)**
- -90
- -70
- -50
- -30
- -10
- 10
- 30
- 50
- 70
- 90

**Time (h)**
- 0
- 2
- 4
- 6
- 8
- 10
- 12
- 14
- 16
- 18
- 20

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