

DOHMEYER

CRYOGENIC • FREEZING • PRECISION

ULT
Cabinet



**Advanced cryogenic
system for heavy-duty
industrial use**



ULT Cabinet

The Dohmeyer ULT Cabinet is an advanced cryogenic system that rapidly lowers temperatures down to -180°C . Engineered for heavy-duty industrial use, it provides highly controlled cooling ideal for metal quenching, precision shrink fitting, and the cryo-fracturing of plastics and rubber.



Reduced cryogen consumption



No start-up time

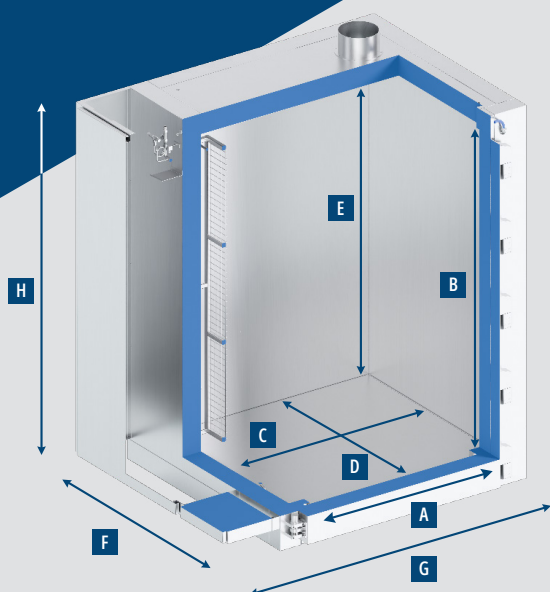


Easy to operate



Closed processing environment

-180°C



DIMENSIONS

MODEL		DOH-ULT-2600	DOH-ULT-4200	DOH-ULT-4700
A	DOOR OPENING [MM]	830	1030	1230
B	DOOR OPENING [MM]	2078	2078	2078
C	INSIDE DEPTH [MM]	975	1360	1360
D	INSIDE WIDTH [MM]	830	1030	1230
E	INSIDE HEIGHT [MM]	2078	2078	2078
F	OUTSIDE DEPTH [MM]	1396	1782	1782
G	OUTSIDE WIDTH [MM]	1856	2056	2056
H	OUTSIDE HEIGHT [MM]	2695	2695	2695

All dimensions are subject to tolerances according to ISO 13920:1996 Class D.

PRODUCTIVITY • EFFICIENCY



No start-up time

The cabinet is ready for operation without the lengthy preparation required for traditional nitrogen immersion baths

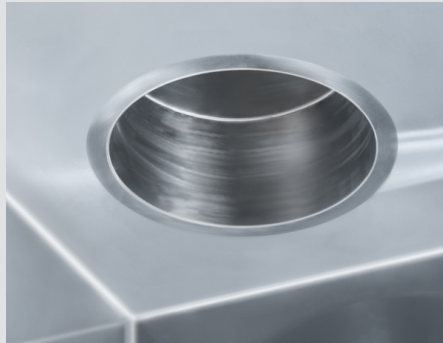
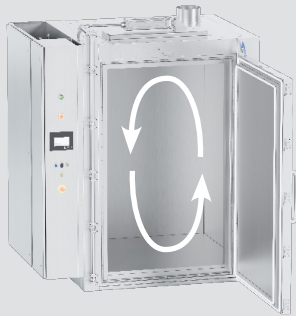


High heat-transfer efficiency

Turbulence fans improve heat transfer inside the cabinet, enabling fast cooling and a compact machine design for the required capacity

Efficient nitrogen usage

The closed freezing process minimizes unnecessary nitrogen consumption and reduces operating costs



SAFETY

Closed processing environment

The entire cryogenic process takes place inside a closed cabinet, reducing operator exposure

Controlled nitrogen vapour extraction

Nitrogen vapours are removed from the cabinet in a controlled manner, creating safer workspace than an open immersion bath

Redundant safety loop

Secondary safety system provides full back up to primary safety circuit

ENVIRONMENT IMPACT



Non-toxic cleaning process

The PVC coating is removed mechanically after cryogenic treatment, eliminating the need for toxic chemical removers



Environmentally harmless process media

No harmful chemicals in process, overall lower environmental impact than chemical stripping

CONTROL & CONSISTENCY



Operator-friendly HMI

The intuitive touch-screen interface allows easy operation and clear control of all process parameters

Recipe storage

The Siemens PLC enables predefined process recipes to be stored and quickly recalled for different products or applications



Consistent freezing results

Accurate process control and repeatable operating parameters ensure uniform and reliable results for every production cycle

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Dohmeyer is the leading global manufacturer of cryogenic refrigeration systems for the food processing, pharmaceutical, aeronautic, plastics and steel industries.



Support:

Dohmeyer are available 24/7 giving access to our specialist support teams providing help and advice to all our customers.



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