

# DOHMEYER

CRYOGENIC • FREEZING • PRECISION

## Cryo Tunnel



DOHMEYER

CRYOGENIC • FREEZING • PRECISION

**Cryogenics give you  
fast, efficient, quality  
assured freezing**





# Cryo Tunnel

The Dohmeyer top lifting tunnel provides flexibility and efficiency for your production process. It has been designed with class leading hygiene features, there are no seals, the top lifts along the complete length giving easy access for cleaning and all internal surfaces slope towards drainage points.



Increased safety



Easy to operate



Improved efficiency



Reduced freezing time



Easy to clean



WIDTH	28"	50"	62"
USEFUL BELT WIDTH [MM]	630	1190	1495
TOTAL WIDTH [MM]	1670	2230	2540

Capacity up to

**1500kg**

Min. temperature

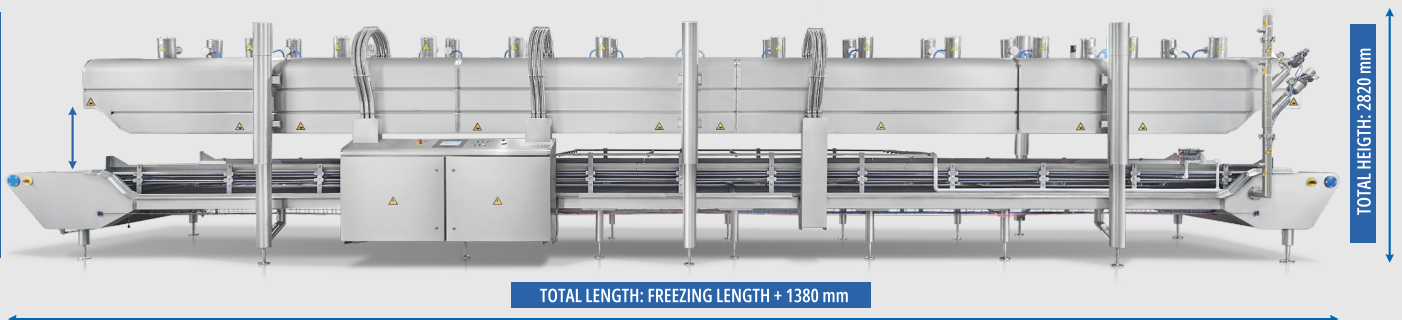
**-120°C**

FREEZING LENGTH: 6000 mm, 9000 mm, 12000 mm

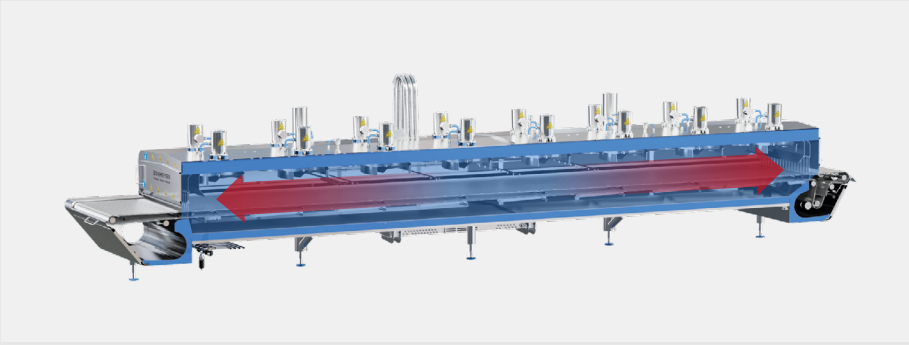
TOP HOOD OPENING: 750 mm

TOTAL HEIGHT: 2820 mm

TOTAL LENGTH: FREEZING LENGTH + 1380 mm



**PRODUCTIVITY • EFFICIENCY**



**Close controlled injection of the chosen cryogen**  
Matched with efficient gas flow management reducing wastage of cold energy

**Isothermal profile**  
Isothermal design and heat transfer efficiency increases capacity by 15%

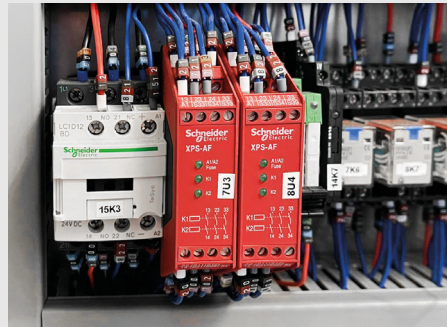


**Bottom exhaust**  
Bottom exhaust draws cold gas through product freezing zone increasing efficiency

**SAFETY**



**Vacuum insulated manifold**  
Contains integrated safety valve within pipeline providing pressure relief back to the storage tank



**Redundant safety loop**  
Secondary safety system provides full back up to primary safety circuit

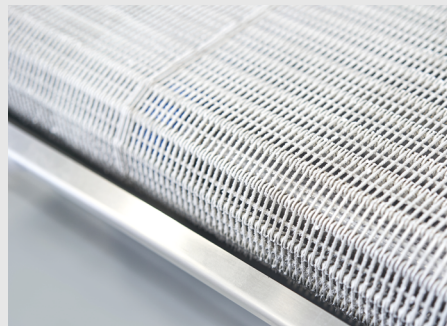


**Boundary and deviation measurement**  
Additional temperature measurement to supplement safety and process controls

**HYGIENE**



**No seal**  
The tunnel seals without the need for a traditional gasket, removing the potential for bacteriological contamination



**Hygienic eye-link belt (optional)**  
Easily cleanable belt with an open structure avoids trapped product

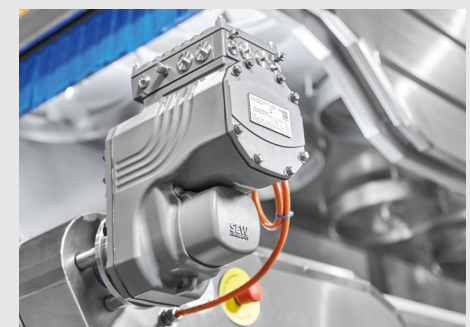


**Automatic belt cleaning**  
Integral belt cleaning system fitted within the freezing zone

**FLEXIBILITY**



**Multiple sizes**  
Full range of sizes available in width and length



**Wide residence time range**  
Servo driven gearbox gives a huge range of belt speeds meaning dwell time within freezing zone can be adjusted from 30 sec to 3 h



# DOHMEYER

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Dohmeyer is a 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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