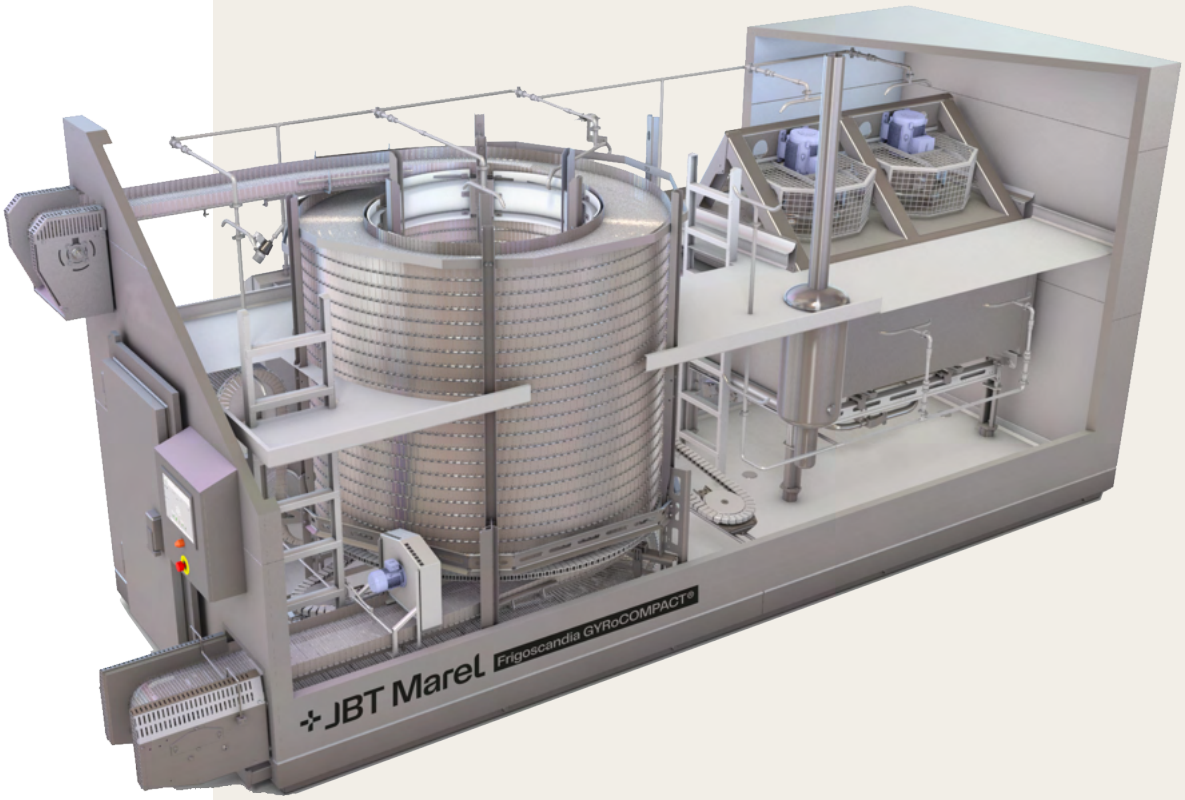
High capacity freezing in a small footprint

Frigoscandia GYRoCOMPACT® 40 Spiral Freezer

Freezer, Chiller & Proofer

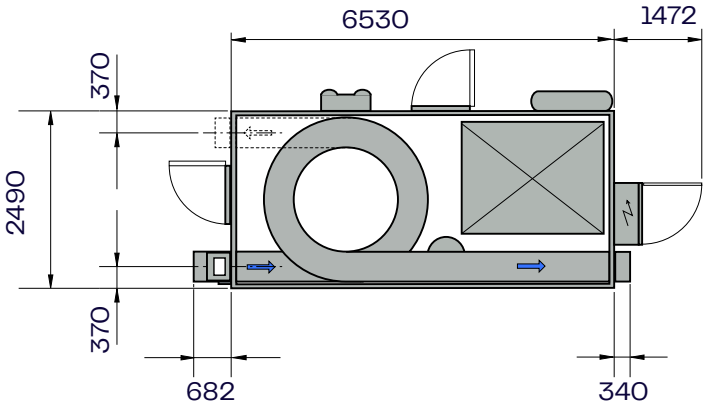


JBT Marel

The Frigoscandia GYRoCOMPACT® 40 Spiral Freezer has evolved from one of JBT's best selling products, the GYRoCOMPACT Classic 400 Spiral Freezer, which has sold over 1,100 units across the world.

The most compact, hygenic and efficient spiral freezer ever made

This latest technology replaces the outdated wagon drive system with the company's patented FRIGoDRIVE® system providing a number of benefits. These include 30% faster belt speeds, lower running costs and advanced hygiene features.



Hygiene by design

- Self-contained freezing zone
- No stationary parts like drum or tier carriers to complicate clean
- Open profile design minimizes dirt traps
- Optional blue plastic on glide strips
- Self-contained freezing zone
- All CIP options available

Outfeed unit

- No drive arrangement
- Less maintenance
- Less energy consumption

Wall mounted HMI

- Preassembled
- PRoLINK™ control system
- Touch-screen HMI system
- Sloped roof
- Prepared for Connected Services, powered by JBT Marel Software

Unique FRIGoBELT® Nova self-stacking belt

- Self-stacking belt forms closed freezing zone
- Improved belt design with stronger side-links
- Highest reliability through improved interlocking
- Less wear and increased belt life

Low running cost

- Reduced power consumption
- Simplified outfeed means less maintenance and belt wear
- 50% lower oil consumption
- Belt take-up provides longer belt life

Increased capacity on a small footprint

- Capable of freezing up to 1,000 kg of products per hour
- 35% to 40% higher capacity than any similar capacity model
- Ideal for transition from cryogenic to mechanical freezing

Fans located on the dry side of evaporator

- Maximum heat transfer and frost pick-up
- Increased production uptime
- Greater freezing capacity

Fully seal-welded, stainless steel floor design, with elevated floor to wall joint creating a bath-tub style design

- No bacteria traps
- Protecting the floor insulation from
- being flooded

FRIGoDRIVE® system

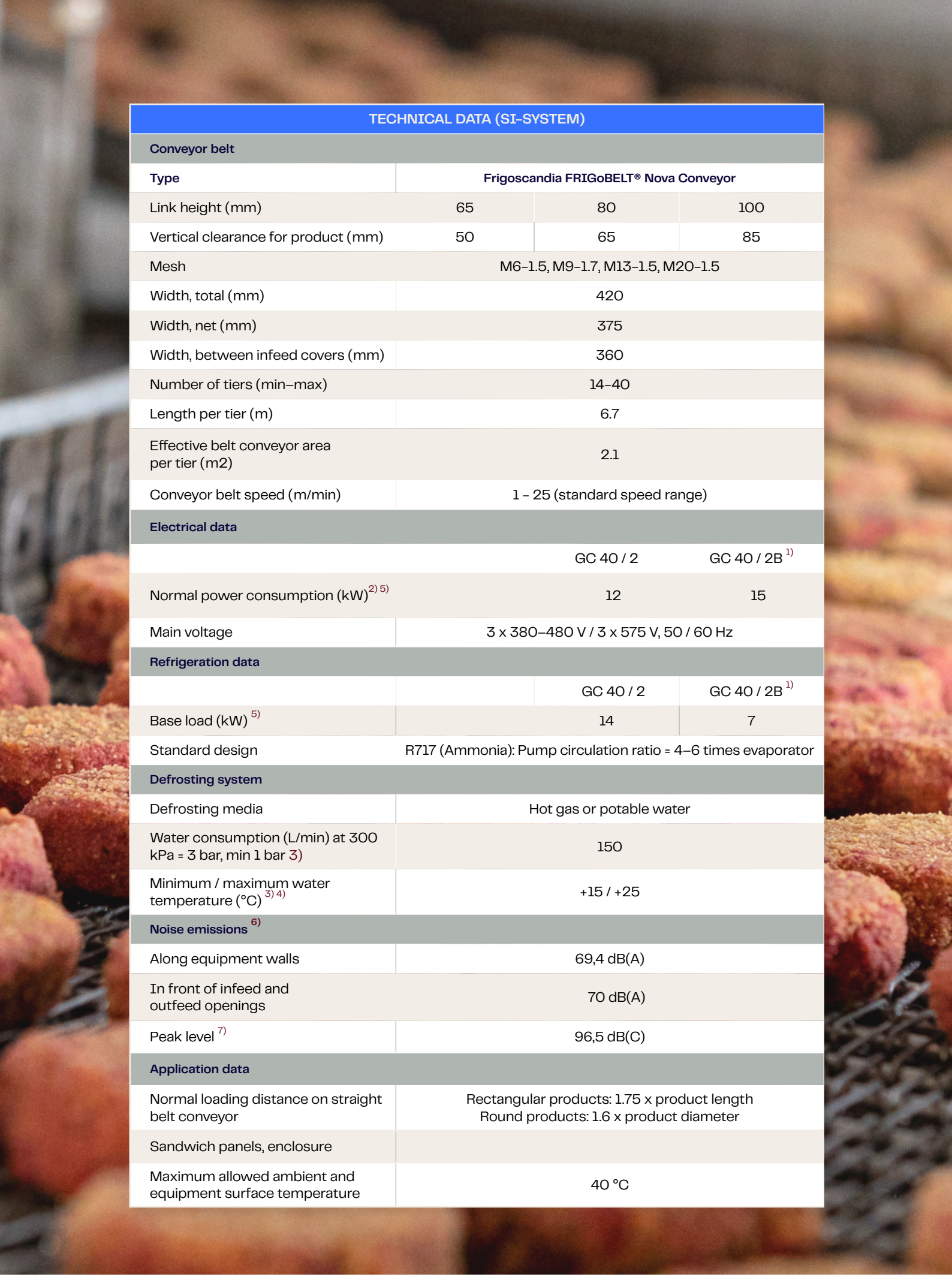
- Replaces outdated wagon drive system
- Removes the need for centre drum
- No support or rails to cause jamming
- 30% faster belt speeds

Unrivalled energy efficiency

- Freezer power consumption from 5 kW
- Highest possible rate of heat transfer
- No risk of products being moved by horizontal airflow
- Short freezing times, low dehydration, maximized product quality

Options

- Air Defrost (ADF) system for simple, endurable and energy-efficient operation
- Frigoscandia's renowned LVS system for energy-efficient refrigeration



TECHNICAL DATA (SI-SYSTEM)			
Conveyor belt			
Type	**Frigoscandia FRIGoBELT® Nova Conveyor**		
Link height (mm)	65	80	100
Vertical clearance for product (mm)	50	65	85
Mesh	M6-1.5, M9-1.7, M13-1.5, M20-1.5		
Width, total (mm)	420		
Width, net (mm)	375		
Width, between infeed covers (mm)	360		
Number of tiers (min–max)	14–40		
Length per tier (m)	6.7		
Effective belt conveyor area per tier (m2)	2.1		
Conveyor belt speed (m/min)	1 – 25 (standard speed range)		
Electrical data			
		GC 40 / 2	GC 40 / 2B [1]
Normal power consumption (kW) [2) 5)]		12	15
Main voltage	3 x 380–480 V / 3 x 575 V, 50 / 60 Hz		
Refrigeration data			
		GC 40 / 2	GC 40 / 2B [1]
Base load (kW) [5)]		14	7
Standard design	R717 (Ammonia): Pump circulation ratio = 4–6 times evaporator		
Defrosting system			
Defrosting media	Hot gas or potable water		
Water consumption (L/min) at 300 kPa = 3 bar, min 1 bar 3)	150		
Minimum / maximum water temperature (°C) [3) 4)]	+15 / +25		
Noise emissions [6)]			
Along equipment walls	69,4 dB(A)		
In front of infeed and outfeed openings	70 dB(A)		
Peak level [7)]	96,5 dB(C)		
Application data			
Normal loading distance on straight belt conveyor	Rectangular products: 1.75 x product length Round products: 1.6 x product diameter		
Sandwich panels, enclosure			
Maximum allowed ambient and equipment surface temperature	40 °C		

1. Low energy alternative.
2. Does not include dimensioning of power supply fuses/cables. Refer to customer drawings for maximum power requirement.
3. Must be potable water.
4. Make sure refrigeration system is safe for water temperature in use.
5. All consumption values are calculated for a nominal case. Customer specific values available on request – contact sales support.
6. According to EC Machine Directive.
7. Measured when the ADF (optional equipment) goes off.

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