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Model:
NT20-LE

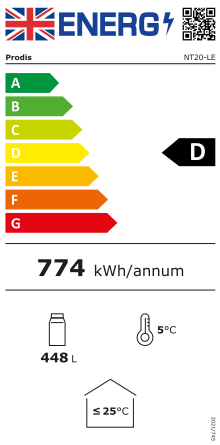
High-Capacity Double Door Upright Bottle Cooler Energy Class D
2.12 kWh/24h | 504 Bottle Capacity | 30°C Ambient Rated²

GENERAL INFORMATION

The Prodis NT20-LE is the ultimate high-volume merchandising solution for venues requiring maximum stock holding on a concise footprint. Standing 1800mm tall with a 900mm width, this double-door unit offers an impressive 360-bottle capacity, making it the workhorse of busy bars, canteens, and retail outlets.

Combining massive storage with efficiency, the NT20-LE is rated as an Energy Class D appliance with a daily consumption of just 2.12 kWh. It features independent left and right shelving zones, full-height LED illumination, and a robust cooling system engineered to perform in ambient temperatures up to 30°C.

ENERGY RATING INFORMATION



KEY FEATURES

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- **Vertical Merchandising:** Tall 1800mm design maximises product visibility and storage density, holding 504 x 275ml bottles on a compact 900mm footprint
- **Low Energy Consumption:** Official Energy Class D rating with a daily consumption of just 2.12 kWh/24h, costing approximately ~64p per day to run
- **Heavy Duty Cooling:** Efficient R600a system, tested to Climate Class 3 and warrantied for high-ambient operation up to 30°C.
- **Premium Presentation:** Includes 5 adjustable shelves and full-height pure white LED illumination to create a bright, shadow-free display that drives impulse sales.
- **Whisper-Quiet Operation:** Runs at just 43dB, making it suitable for quiet retail areas, office boardrooms, or front-of-house displays.
- **Secure & Robust:** Features a double-glazed safety glass door with a standard lock to secure high-value stock.

TECHNICAL & OPERATIONAL FEATURES

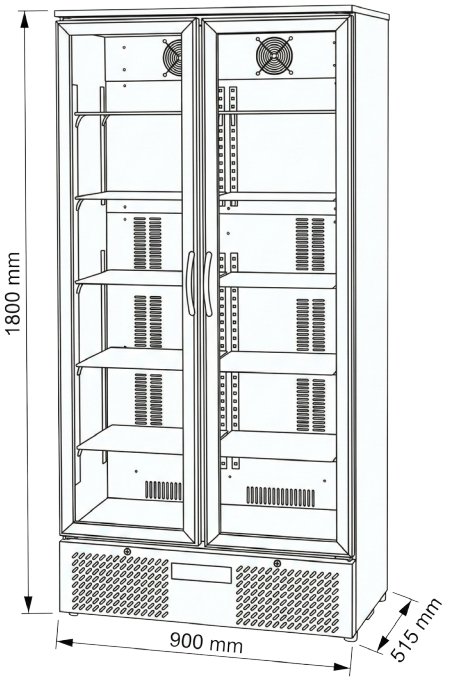
- **Precision Control:** Precision digital temperature controller with clear external LED display for easy monitoring.
- **Optimised Airflow:** Front-breathing ventilation system allows for tight installation with minimal clearance required (25mm rear / 10mm sides).
- **Temperature Class K4:** Certified to maintain an average product temperature of +5°C, ideal for premium lagers, craft ales, and white wines.
- **Security Standard:** Doors feature factory-fitted locks as standard for stock security.
- **Construction:** Hard-wearing black exterior with a hygienic, easy-clean aluminium interior.

INSTALLATION & MAINTENANCE

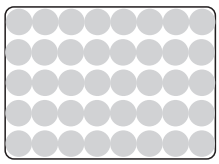
- **Shelving:** Supplied with 10 x fully adjustable shelves (plus base storage), allowing for flexible configuration of bottles, cans, or cartons.
- **Self-Closing Mechanism:** Doors are engineered to close automatically to prevent accidental energy loss, featuring a positive seal system to maintain the Class D efficiency rating.
- **Eco-Friendly:** Charged with R600a refrigerant (GWP 3), fully compliant with modern environmental standards.
- **Plug & Play:** Supplied with a 1.85m lead and moulded UK 13A plug for immediate installation.
- **Levelling:** Fitted with adjustable feet to ensure stability on even flooring

SPECIFICATION NT20-LE

DIMENSION & WEIGHT		TECHNICAL SPECIFICATION		
External dimensions (W x D x H mm)	900 x 515 x 1800	Ventilation Requirements (mm)	Rear	25
Internal dimensions (W x D x H mm)	810 x 355 x 1315		Top	20
Depth door open (mm)	904		Sides	10
Width doors open (mm)	1420	Refrigerant	R600a 80g	
Shelf dimension W x D (mm)	389 x 350 (left & right)	Power input (W)	250	
Packaged dimensions W x D x H (mm)	955 x 580 x 1960	Rated current (A)	1.85	
Net weight (kg)	100	Noise level (dB)	43	
Gross weight (kg)	105.5	Cable length (mm)	1850	
SHELF SPECIFICATION		Climate class (energy test)[1]	3 - 25°c / 60% RH	
Shelf size (W x D mm)	389 x 350	Climate class (maximum ambient)[2]	4 - 30°c / 55% RH	
Shelf capacity (kg)	20	**ENERGY USAGE**		
Number of shelves	10	Energy rating	D	
Base size (W x D mm)	778 x 350	Energy consumption (kWh/24h)	2.12	
BOTTLE CAPACITY		Energy consumption (kWh/annum)	774	
330ml (ø 61mm) standard bottle		EEI	44.3	
Shelf capacity)	30 (6 x 5 lane packing)	Cabinet family	BCVTn	
	35 (hexagonal packing)	Test standard class	K4	
Base capacity	60 (12 x 5 lane packing)	**CABINET CONSTRUCTION**		
Total bottle capacity	360 (real world usage figures)	Exterior	Black powder coated	
	410 (maximum theoretical loading)	Interior	Aluminium	
330ml (ø 58mm) sleek bottle		Doors	2 x hinged plastic door frame	
Shelf capacity	36 (6 x 6 lane packing)	Self closing	✓	
	39 (hexagonal packing)	Self closing mechanism	Spring	
Base capacity	78 (13 x 6 lane packing)	Lockable	✓	
	83 (hexagonal packing)	Glazing	Double glazed & toughened	
Total bottle capacity	438 (real world usage figures)	Interior lighting	✓	
	473 (maximum theoretical loading)	Lighting type	LED	
275ml (ø 55mm) stubby bottle		Lighting colour temperature	6000k	
Shelf capacity	42 (7 x 6 lane packing)	Light power (W)	2 x 8	
	46 (hexagonal packing)	Light switch	Interior mounted	
Base capacity	84 (14 x 6 lane packing)	Controller	Digital	
	95 (hexagonal packing)	Controller position	External base	
Total bottle capacity	504 (real world usage figures)	Controller display colour	White	
	555 (maximum theoretical loading)	Controller cover	✓	

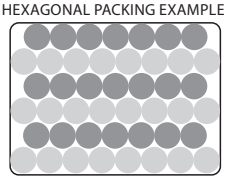


LANE PACKING EXAMPLE



STANDARD LANE PACKING (GRID LAYOUT)
The Standard Lane Packing method prioritizes accessibility and cooling efficiency over maximum density. In this configuration, bottles are aligned in straight columns and rows, creating a reliable grid where the theoretical capacity is easily achieved in the real world. Crucially, the void spaces naturally formed between the non-nested bottles significantly increase airflow throughout the cabinet. This enhanced circulation ensures rapid temperature drawdown and uniform cooling, which maximizes the energy efficiency of the refrigeration system. This layout is the ideal choice for operations where quick restocking, lower energy consumption, and product visibility are the primary requirements.

HEXAGONAL PACKING EXAMPLE



HEXAGONAL PACKING (HONEYCOMB LAYOUT)
The Hexagonal Packing method utilizes geometric efficiency to maximize storage density by nesting each new row of bottles into the triangular gaps of the previous one. This "staggered" arrangement delivers a substantial increase in stock holding capacity compared to a standard grid. However, there is often a distinction between the mathematical maximum and the "Efficient Real-World" capacity, as the tightest theoretical fit can make loading difficult. Furthermore, this increased density reduces the gaps between bottles, restricting airflow through the shelf. While this method allows for maximum volume, the limited air circulation means the refrigeration unit may work harder to cool the product, resulting in increased energy usage.

[1] Testing Standard: Official Energy Efficiency Class 'D' and daily consumption figures (2.12 kWh/24h) are verified under EN16902 standards at Climate Class 3 (25°C / 60% RH).

[2] Operational Limit: This unit is engineered with a heavy-duty cooling system warrantied for continuous operation in ambient temperatures up to 30°C (Climate Class 4). Note that energy consumption will naturally exceed published test figures when operating in ambients above 25°C.

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