

MAGNOTHERM®

# POLARIS PRODUCT FLYER



Gas-compressor cooling was patented 190 years ago.


# IF WE INVENTED COOLING TODAY, WHAT WOULD IT LOOK LIKE?

## Let's look at the facts:

Cooling and its energy demand account for at least 7% of climate change emissions.	We would build CLEAN and EFFICIENT cooling.	Gas-compressor cooling systems are explosive, flammable, toxic, and have expensive maintenance.
We would build SAFE cooling.	Old systems are difficult to recycle.	We'd build them with circular economy principles.

## **MAGNOTHERM builds cooling systems based on magnetocalorics.**

We use a temperature active metal which heats up when magnetised, and cools down when demagnetised. We achieve a temperature drop multiple times over, separate hot and cold, and use this to achieve refrigeration temperatures, carrying them to the cooling cabinet with a water based solution.

Device Format	Barrel cooler	<div>Front View</div> 	Top View (Closed)
Connection	Plug-In		
Refrigeration type	Magnetic		
Display area (m²)	0.26		
Volume of Pipework (L)	1		
Diameter (mm)	570		
Height (mm)	1040		
Weight (kg)	59		
Net Volume (L)	88.5		Top View (Open)
Gross Volume (L)	265		
Castors	4		
Annual Energy Consumption (kWh)	~350		
Electrical supply	230VAC/1Ph/50Hz		
Max operating load (W)	85		
Cooling Temperature	~9°C at (25°C, 60% RH)		

**POLARIS is suitable for:** Supermarkets, Hospitality Applications, Beverage companies, Special Events, Industrial Applications.

