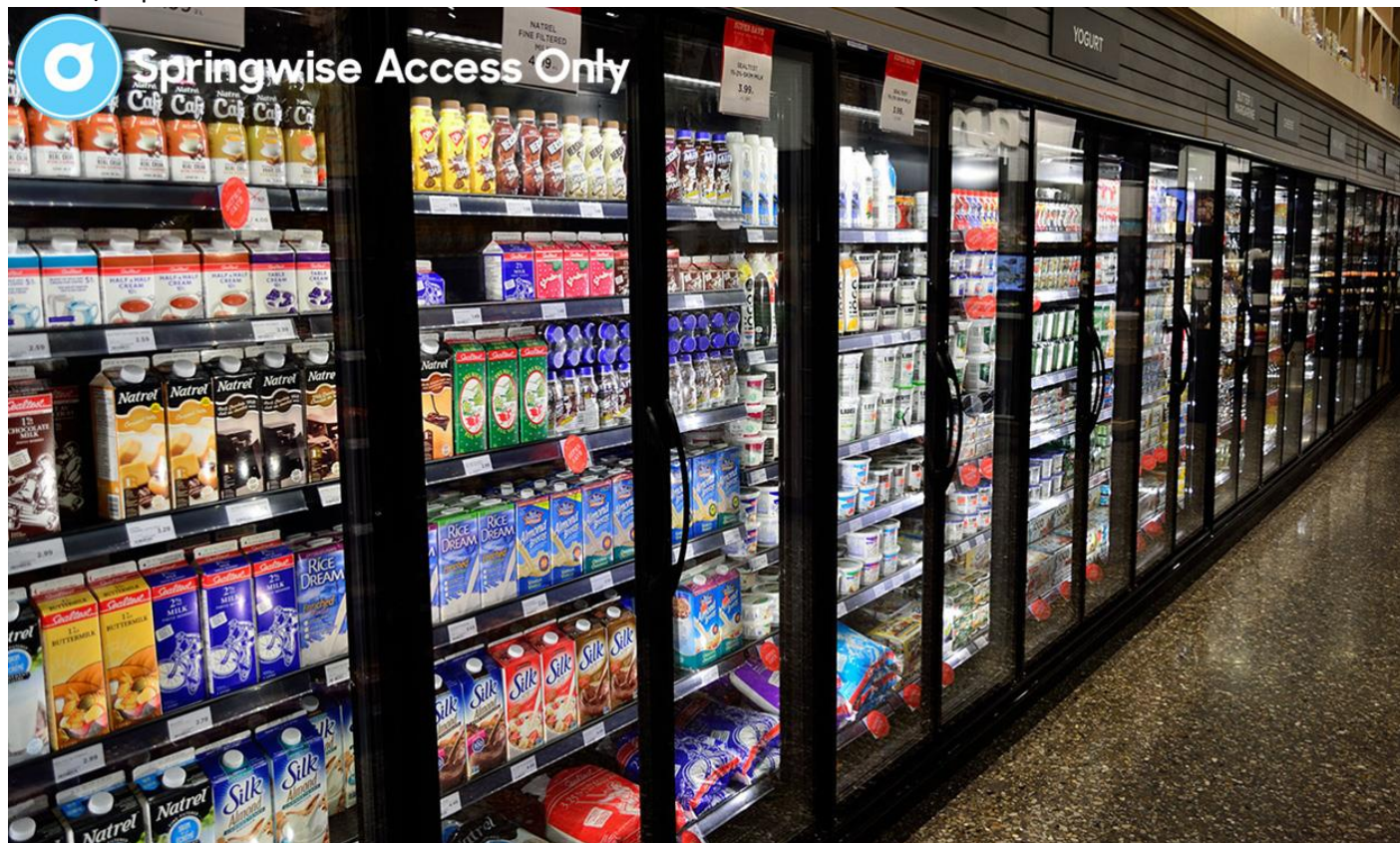


Magnetic refrigeration systems sustainable and efficient

Cooltech Applications releases the first commercially available magnetic refrigeration system, increasing fridge safety and sustainability.

France / September 2016



Gas-free, quiet and extremely low maintenance, Cooltech Applications' magneticrefrigeration system (MRS) uses water and magnets as coolants. The company's latestdesign makes magnetically cooled refrigerators commercially available for the firsttime. Previous designs were too large to be viable and didn't cool food enough to behygienic.

By using the magnetocaloric effect (heating and cooling materials by applying amagnetic field), Cooltech fridges halve energy consumption. And by eliminating theneed for coolant gases, they drastically reduce use of a major contributor to climatechange. Currently being tested in three locations, magnetically cooled refrigerators areinitially being made available for retail, medical and wine storage use. Larger andsmaller systems are both in development, for industrial and personal purposes.

Making the entirety of the field-to-table process sustainable is a continuing challenge.Carbon neutral greenhouses are in development, and more and more solutions to foodwaste are being created, like this app that lets consumers order unsold restaurant meals. Now, with new cooling storage solutions available, what other aspects of thefood chain need a sustainable make-over?

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