

## Technical information sheet

Catalogue number and price: see price list



## ICE-ON

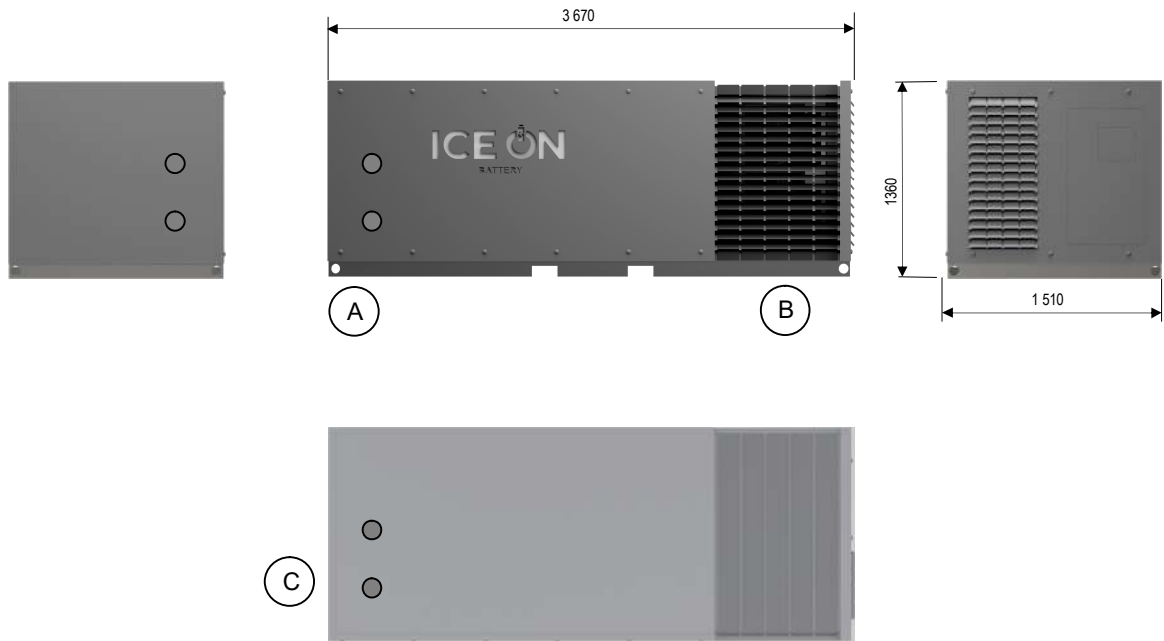
### Type I

Cooling energy generator and storage unit integrated with a heat pump for indoor applications.

Cooling capacity 100 kWh  
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Solution designed specifically for the construction industry, plants and warehouses.

## Description



- 
- A Cooling energy storage unit (tank)
  - B Electrically-driven compression-type heat pump (refrigeration unit) with direct evaporation of the agent in the cooling energy storage unit
  - C Connection for plate heat exchanger (cooling water) 3 variants

## Advantages of ICE-ON

- Innovative and highly efficient system for generating and storing cooling energy using heat pump technology (patent claims filed)
- Increased energy efficiency in systems relying on electricity from renewable sources such as wind plants and PV (photovoltaic) systems
- Desirable component of the energy transition
- Drives optimum energy management
- Enables management of diffused cooling energy storage units operating as a Virtual Power Plant
- Helps to reduce the greenhouse effect (by reducing CO<sub>2</sub> emissions)
- Enhances security of indoor cooling systems in buildings and plants (the military, police, hospitals, server rooms, food industry etc.)
- Opens up new prospects for development of district heating and cooling
- Prevents system overload, particularly at times of strongest insolation
- Creates new possibilities for manufacturers and distributors of electricity; cooling to become a new product on offer
- Generates cost savings for the end-user due to lower cost of generating one unit of cooling energy



## Technical information

### Basic technical data of ICE-ON

Type I	Symbol	Unit	Value
Place of installation	-	-	indoors
Cooling energy capacity	$E_{ch}$	kWh	100
Connected cooling power (plate heat exchanger)	$Q_{ch,w}$	kW	30
Connection for plate heat exchanger		inch	2"
Electric power of the compressor	$Q_{el}$	kW	5.10
Cooling power of the compressor	$Q_{ch}$	kW	19.00
Cooling agent			R410A
Mass of cooling agent	$m_{ch}$	kg	4.20
Global warming potential of cooling agent	GWP	Mg	6.26
Maximum working pressure (overpressure)	$p_{max}$	bar	42.00
Minimum working pressure (overpressure)	$p_{min}$	bar	1.70
Nominal supply voltage	$U_n$	V AC	3x400
Rated current	$I_n$	A AC	6.00
Dimensions			
length of the set (tank + unit)	L	mm	3670
width	B	mm	1510
height	H	mm	1360
Filling capacity of cooling energy store unit	$V_{ch}$	liter	1700
Weight of transported object			
cooling energy storage tank	$m_{ta}$	kg	650
compressor-type cooling unit	$m_s$	kg	130
Weight in operation (with water-filled tank)	$m_r$	kg	2500

## Scope of delivery

- Cooling energy storage tank
- Compressor-type cooling unit
- Hydraulic connection hoses.

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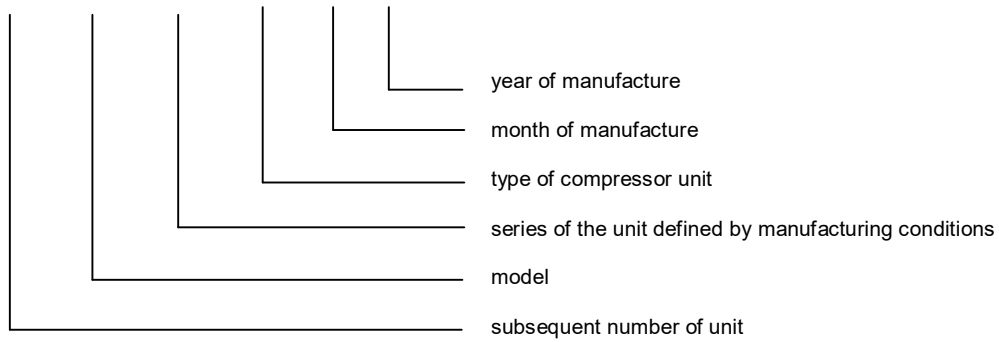
## Accessories

As per order, packed separately:

## Designation

ICE-ON cooling energy storage unit has a name plate with the following description

**0000-M000-PPPP-SSSS-00-0000**



Technical data subject to change!

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