



ECOLOGICAL
REFRIGERATED TRANSPORT

NOW...
ICE IS GREEN





REFRIGERATED CONTAINER 20 AND 40 FEET





**REFRIGERATED CONTAINER
20 AND 40 FEET
WITH ON-BOARD COOLING
STORAGE**





**REFRIGERATED CONTAINER
20 AND 40 FEET
WITH ON-BOARD COOLING STORAGE
IN A HIGHLY INSULATED BOX**



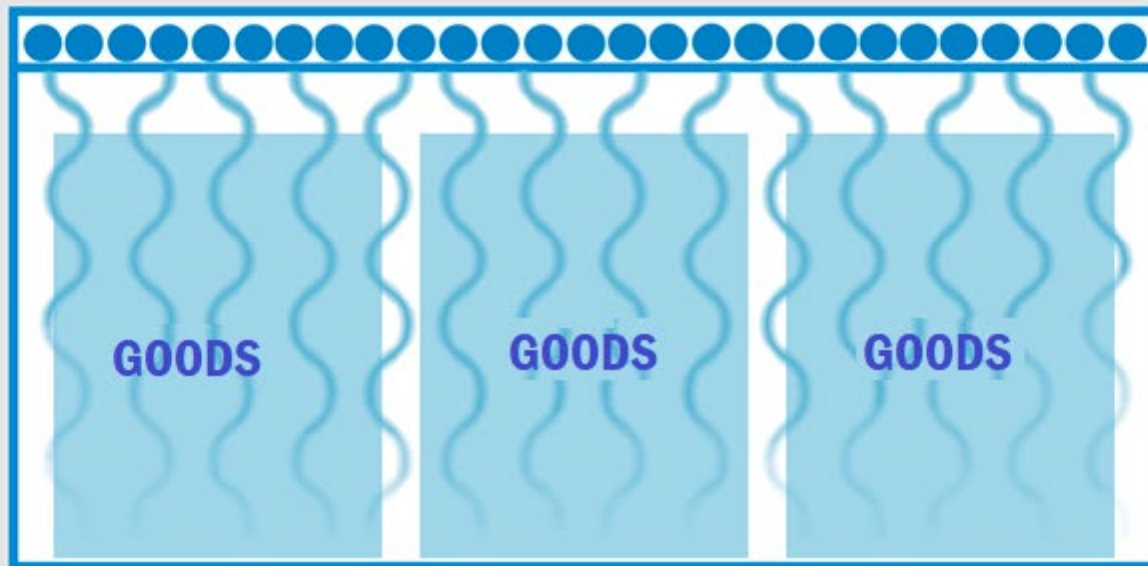
REMOVABLE MODULAR ON-BOARD COOLING DEVICES



THE COLD IS PROVIDED BY FROZEN
CYLINDERS EMBEDDED IN THE UPPER
PART OF THE CONTAINER



WORKING PRINCIPLE



NATURAL CONVECTION BY DESCENDING COLD



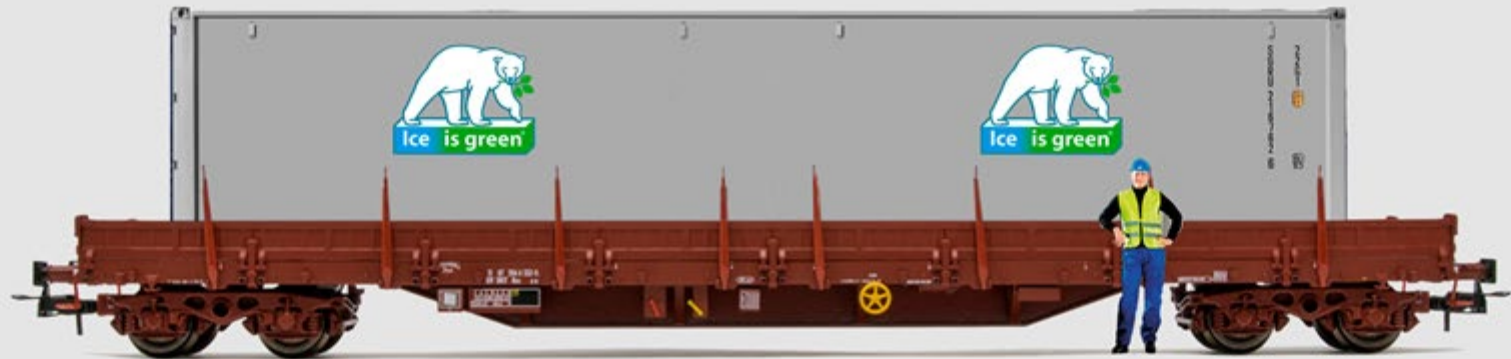
USAGE EXEMPLE



- 20 FEET CONTAINER WITH 960KG OF ON BOARD ICE
- INDOOR TEMPERATURE 5°C
- OUTDOOR TEMPERATURE 30°C
- DURATION OF THE COLD 20 DAYS
- ENERGY COST 5 EURO PER DAY
- DAILY CARBON FOOTPRINT EQUIVALENT TO AN ELECTRIC CAR DRIVING 40 KM



LOW-COST AND ENVIRONMENTALLY FRIENDLY MULTIMODAL LOGISTICS SOLUTION





COST BENEFITS

1

- REDUCED INFRASTRUCTURE INVESTMENT
- 80% SAVING IN ENERGY CONSUMPTION COSTS
- FREIGHT RATE OF A DRY CONTAINER
- LOW MAINTENANCE CONTAINER
- EASY AND REDUCED HANDLING



TIME BENEFITS

2

- SIMPLIFIED TRANSIT, SHORT TIME
- TRANSPORT AND HANDLING OF GOODS REDUCED
- (FIELD TO FORK APPROACH)
- POSSIBLE USE IN PRODUCTION AREAS
- SIMPLIFIED LOGISTIC CHAIN

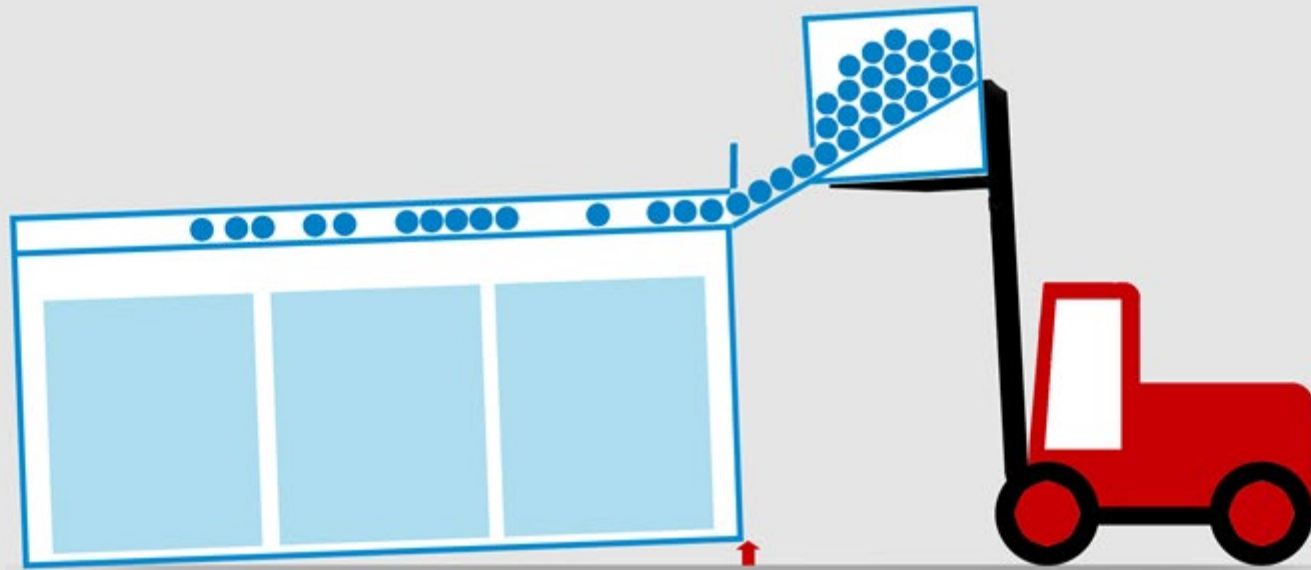


QUALITY BENEFITS

3

- **NATURAL CONVECTION COOLING
(NO FORCED AIR)**
- **PRESERVATION OF PRODUCT QUALITY
(NO WEIGHT LOSS)**
- **CARBON FOOTPRINT DIVIDED BY 10 TO 100
DEPENDING ON THE ELECTRICITY SOURCING**

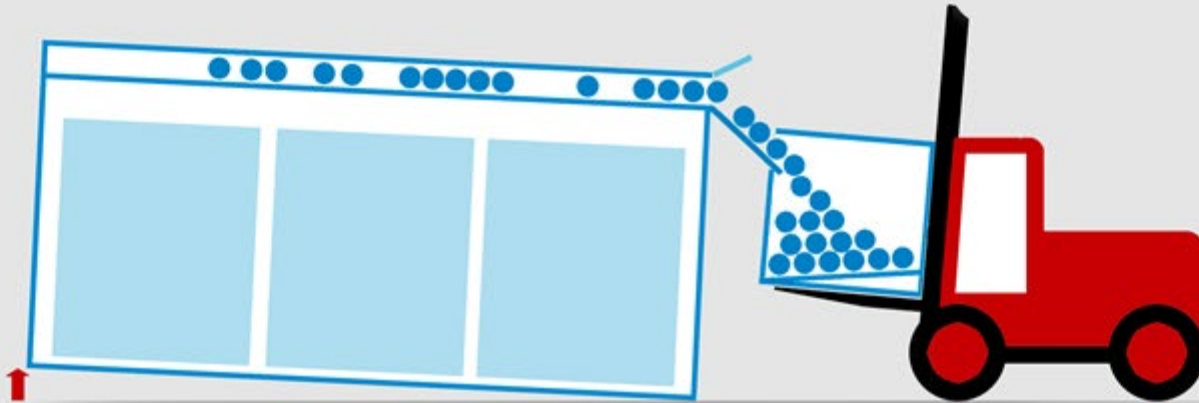
**THE REFRIGERATED CYLINDERS
ENTER BY GRAVITY IN THE UPPER
PART OF THE CONTAINER**



**LOADING TIME
15 MINUTES**



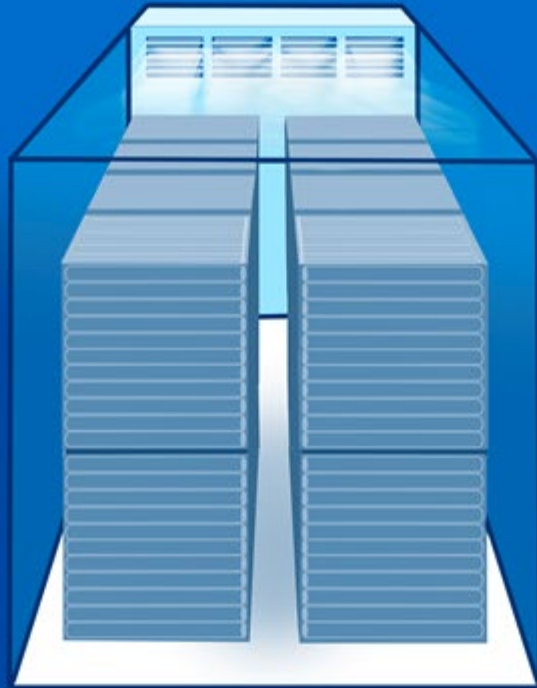
**THE UNLOADING OF THE CYLINDERS IS
REVERSE TO THE LOADING**



**DOWNLOADING TIME:
15 MINUTES**



MOBILE COOLING STATION FOR CYLINDERS



16 BASKETS OF CYLINDERS

**FREEZING TIME OF THE CYLINDERS
FOR 4 CONTAINERS OF 40 FEET :
12 HOURS (FORCED AIR)**





- **STANDARD EXTERNAL DIMENSIONS OF SEA CONTAINERS**
- **INTERNAL DIMENSIONS: 5.736 X 2.118 X 2.072**
- **AVAILABLE VOLUME: 25 M3**
- **EMPTY WEIGHT: 3200 KG**
- **PAYLOAD / 9 TO 10 TONS**

REF: ATP CAT. C << FRC >>





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