



INTERMODAL CONTAINERS





*Innovation. Experience. Performance.®*

## ISO Intermodal Containers

Chart designed and built ISO Intermodal Cryogenic Containers (ICC) have been engineered specifically for the safe, efficient and economic worldwide transport of cryogenic bulk liquids, including nitrogen, oxygen, liquefied natural gas (LNG), ethylene, nitrous oxide and carbon dioxide (CO<sub>2</sub>), by road, rail and water.

### Features:

- Available with lengths of 20, 40 and 45 feet
- Highly-efficient multi-layer super insulation system
- Maximized payload
- Compliance with UN T75
- Solid, reliable construction
- Low maintenance
- Safe operation
- Worldwide after-sales support

### Chart Vacuum Technology®

Providing the best insulation system to protect your valuable gases from harsh ambient conditions results in lower pressure rise and lower losses, yielding better gas utilization. Chart Vacuum Technology® is at the core of why Chart is recognized around the world as the premier supplier of cryogenic equipment.



**Safe, efficient and economic transport solution.**





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## ISO Intermodal Containers - Types

Chart ISO Intermodal Containers, featuring state-of-the-art technology, are offered in four different versions:

### 20 ft. Intermodal Container for N<sub>2</sub>, O<sub>2</sub>, Ar, N<sub>2</sub>O, LNG, Ethane & Ethylene

- Pressure building vaporiser for pressure transfer
- Maximum allowable working pressure 10, 18, and 24 bar for European design
- Maximum allowable working pressure 100, 150, 180, 230 PSI for ASME/DOT
- Optional on-board pump

### 20 ft. Intermodal Container for CO<sub>2</sub> & N<sub>2</sub>O

- Maximum allowable working pressure 18 to 24 bar for European design
- Maximum allowable working pressure 350 PSI for ASME/DOT
- Hold times more than 54 days without the use of refrigeration system
- Stainless or carbon steel inner vessel available

### 40 ft. Intermodal Container for LNG, Ethane & Ethylene

- Maximum allowable working pressure 10 bar for European design
- Maximum allowable working pressure 100 PSI for ASME/DOT
- Designed and optimized for hydrocarbons services
- Hold times 109 days without the use of refrigeration system

### 45 ft. Intermodal Container for LNG, Ethane & Ethylene

- Available on request

**Proprietary vacuum technology for superior performance.**





## Technical Specification

### 20 ft. CONTAINER - EN

Code	Model	Service	Gross Water Capacity (liters)	MAWP*	Lenght (mm)	Width (mm)	Height (mm)	Tare Weight (kg)	Max. Gross Weight (kg)	Hold Time LOX (days)
EN, ADR IMDG, RID, ISO, TC	ICC-20-P-10 ICC-20-P-18 ICC-20-P-24	LIN, LOX, LAR, LNG, Ethane, Ethylene, N <sub>2</sub> O	20 370 20 160 20 080	10 bar 18 bar 24 bar	6 058	2 438	2 591	6 625 8 075 9 025	36 000	79 102 114

### 20 ft. CONTAINER - ASME/DOT

Code	Model	Service	Gross Water Capacity (liters)	MAWP*	Lenght (mm)	Width (mm)	Height (mm)	Tare Weight (kg)	Max. Gross Weight (kg)	Hold Time LOX (days)
ASME/DOT, ADR, IMDG, RID, ISO, TC	ICC-54-P-100 ICC-54-P-150 ICC-53-P-180 ICC-53-P-230	LIN, LOX, LAR, LNG, Ethane, Ethylene,	20 380 20 360 20 160 20 080	100 PSI 150 PSI 180 PSI 230 PSI	6 058	2 438	2 591	6 625 7 600 8 075 9 025	36 000	65 80 87 97

### 20 ft. CO2 CONTAINER - EN or ASME/DOT

Code	Model	Service	Gross Water Capacity (liters)	MAWP*	Lenght (mm)	Width (mm)	Height (mm)	Tare Weight (kg)	Max. Gross Weight (kg)	Hold Time LCO <sub>2</sub> (days)
EN, ADR IMDG, RID, ISO, TC	ICC-20-E-24	CO <sub>2</sub> , N <sub>2</sub> O	20 080	24 bar	6 058	2 438	2 591	9 325	36 000	54+
ASME/DOT ADR, IMDG, RID, ISO, TC	ICC-53-P-350	CO <sub>2</sub>	20 000	350 PSI	6 058	2 438	2 591	9 950	36 000	54+

### 40 ft. CONTAINER - EN or ASME/DOT

Code	Model	Service	Gross Water Capacity (liters)	MAWP*	Lenght (mm)	Width (mm)	Height (mm)	Tare Weight (kg)	Max. Gross Weight (kg)	Hold Time LNG (days)
EN, ADR IMDG, RID, ISO, TC	TSV-43-PB-10	LNG, Ethane, Ethylene	43 500	10 bar	12 192	2 438	2 591	11 500	34 000	132
ASME/DOT ADR, IMDG, RID, ISO, TC	TSV-115-PB-100	LNG, Ethane, Ethylene	43 500	100 PSI	12 192	2 438	2 591	11 500	34 000	109

\* MAWP – Maximum Allowable Working Pressure - Additional options available

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