

# ISO VAC 20-CO<sub>2</sub> SERIES TANKS

The ISO VAC 20-CO<sub>2</sub> tank has been designed as a standard 20ft ISO container for the safe storage and transport of refrigerated liquefied CO<sub>2</sub>. A new frame arrangement with Blair corner castings, & lockable valve protection cabinet, containing the valves, gauges, vacuum check gauge connection and a separate document holder.

The ISO VAC 20 CO<sub>2</sub> tank can be produced with working pressure of 24 Bar and can be used for the safe use & transportation of CO<sub>2</sub>. Other tank options include LIN, LOX, LAR, LNG, Ethylene and Ethane.

This tank has approvals for road, rail and sea transport.

This tank can also be configured to accept cryogenic transfer pumps.

The ISO VAC also features high vacuum super-insulation, stacking capability 9 units high to ISO 1496-3 (192,000 kg max), full set of decals (including logo's where supplied by customer), integral pressure building system, document holder and various pipe work and valve options to offer maximum versatility to end user and operator.

Specification	ISO VAC 20 CO <sub>2</sub> 17 Bar	ISO VAC 20 CO <sub>2</sub> 24 Bar
Product Code	9951-1103	9951-1211
Capacity (Nominal)	20,000 ltr	20,000 ltr
Capacity (Nominal)	19,000 @ 95%	19,000 @ 95%
Pressure	17 Bar.g, 250psi.g	24 Bar.g, 350psi.g
Tare Weight kg	7875	9075
Stacking kg	192,000	192,000
Holding Time*	31 Days	55 Days

Materials / Specifications	
Inner Shell	Stainless Steel
Outer Jacket	Carbon Steel. Option - Stainless Steel
Skid	Carbon Steel
Pipework	Tp.316 Stainless Steel Sch.10
Paint Specification	Shot Blast SA 316, Zinc Rich Primer 50 microns, Epoxy High Build 125 microns, Polyurethane Top Coat 50 microns
Design Approval(s)**	EN 13530, ADR / RID, IMDG, 150, CSC, TDG, Option - ASME'U' / CFR
Temperature	Inner Shell -196°C to +50°C, Outer Jacket -20°C to +50°C (option -40 to +50°C) material
Corner Castings	ISO Standard 1161 Blair BLRC20100 / 20000
Couplings	Blind flanges as standard. Custom specification on request

\*\* Design approvals may vary depending on options and country of operation. For details, please contact Technical Department.

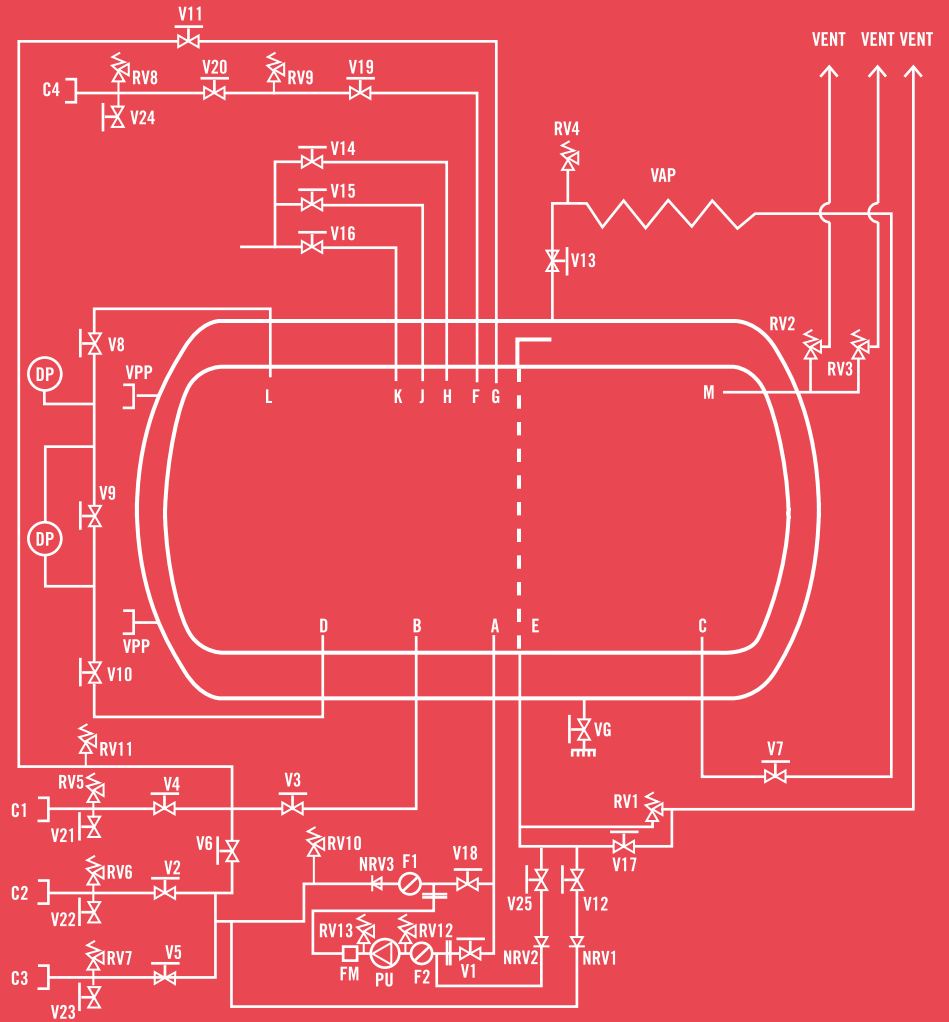
\* Holding times as calculated by EN 12213. Holding time based on starting pressure at 10 bar.



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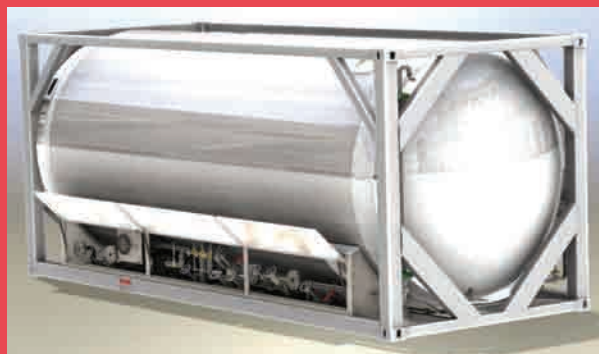
## Valves / Pipework

V1	Pump Feed Ball Valve
V2	Liquid Outlet Valve
V3	Liquid Inlet Isolation Valve
V4	Liquid Inlet Valve
V5	Liquid Outlet Valve
V6	Pump Priming Valve
V7	Pressure Build Valve
V8/V9/V10	Panel Control Valves
V11	Top Fill Valve
V12	Cross Connection Valve
V13	Pressure Build Return Isolation Valve
V14/V15/V16	Try-Cocks
V17	Vent Valve
V18	Liquid Outlet Valve – Pump Bypass
V19	Gas Balance Isolation Valve
V20	Gas Balance Valve
V21/V22/V23/V24	Blow Down Valve
V25	Cross Connection Valve
F1	Liquid Outlet Filter
F2	Optional Pump Filter
NRV1/NRV2/NRV3	Cross Connection Non-Return Valve
PG	Pressure Gauge
DP	DP Gauge
C1	Liquid Inlet – DN65 PN40 Flange
C2/C3	Liquid Outlet – DN65 PN40 Flange
C4	Gas Balance – DN65 PN40 Flange
RV1/RV2/RV3/RV4	Primary Relief Valve
RV5/RV6/RV7/RV8/RV9/RV10/RV11	Line Relief Valve
RV12/RV13	Optional Pump Relief Valve
VAP	Pressure Build Vaporiser
VPP	Vacuum Pumping Port
VG	Vacuum Gauge
PU	Optional Cryogenic Pump
FM	Optional Pump Flow Meter Kit



Typical tank schematic shows standard configuration (with optional pump installed), utilising Globe Valves. Options include ball valves. LIN / LOX / LAR and LNG approved format tank also available.

Dimensions	Length (mm)	Height (mm)	Width (mm)
Dimensions	6,058	2,591	2,438



Full access side cabinet.



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Design and specifications subject to change without notice

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