ISO PACK 2000 SERIES TANKS

The ISO PACK 2000 tank can be transported either individually or in pairs (coupled together) as one 20ft ISO unit.
This configuration allows for the tanks to be shipped on standard container ships anywhere in the world, by the most economical method.

This T75 UN portable tank has approvals for road, rail & sea transport. It also has CSC, DNV 2.7-1 and EN12079 approvals among many other options, and is designed, manufactured / tested for storing & transporting liquid nitrogen, argon and oxygen, and can often be seen on offshore supply vessels being transported to oil production platforms all over the World. The CO_2 format tank can also be supplied with a working pressure of 24 bar.

The general arrangement 10ft ISO tank can be produced with working pressures ranging from 6 bar to 24 bar (87 to 350 psi).

The ISO PACK also features high vacuum super-insulation, stacking capability 9 units high to ISO 1496-3 (192,000 kg max), full set of decals (including logos 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.

Special features include :-

- Lower roof plates to allow stacking with slings / shackles remaining in situ.
- Dual try-cock valves.
- Fully welded frame or optional removable frame.
- Optional Hasting vacuum check valve.

Specification	ISO PACK 2000 6 Bar ASME	ISO PACK 2000 17 Bar	ISO PACK 2000 24 Bar
Product Code	9950-0007	9950-0100	9950-0200
Capacity (Litres)	7,700	7,200	7,200
Pressure	6 Bar / 88 psi	17 Bar / 250 psi	24 Bar / 350 psi
Tare Weight kg	5,100	6,167	7,219
Max Gross Weight	11,350	12,000	14,000 (nom)
Holding Time (Days)*	25 Days	46 Days	56 Days

Materials / Specifications	
Inner Shell	Stainless Steel
Outer Jacket	Carbon Steel
Skid	Carbon Steel
Pipework	Tp.316 Stainless Steel Sch.10
Paint Specification	Shot Blast SA 2.5, Zinc Rich Primer 50 microns, Epoxy High Build 125 microns, Polyurethane Top Coat 50 microns Standard colour : White Custom paint colours on request
Design Approval(s)**	EN 13530, ADR / RID, IMDG, IMO, UKDOT, DNV 2.7-1 / EN 12079, CSC, USDOT, ASME VIII, AS 1210
Performance	Maximum Evaporation Rate 0.4% per day.
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	NIT150 as standard. Custom specification on request
Roof Plates	Aluminium (Optional Carbon Steel Durbar)
Drip Tray	Stainless Steel
Earth Point	Stainless Steel M12 Boss
Vaporiser	Stainless Steel Finned Tubing
Slings (Optional)	Slings & shackles (where supplied) – approved to all relevant codes including DNV 2.7-1
Stacking	In accordance with ISO 1496-3 (9 high / 192,000 kg max)
Insulation	Vacuum + Superinsulation

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

* Holding times as calculated by EN 12213.

Version 2 shown above with fully removable tank/frame root

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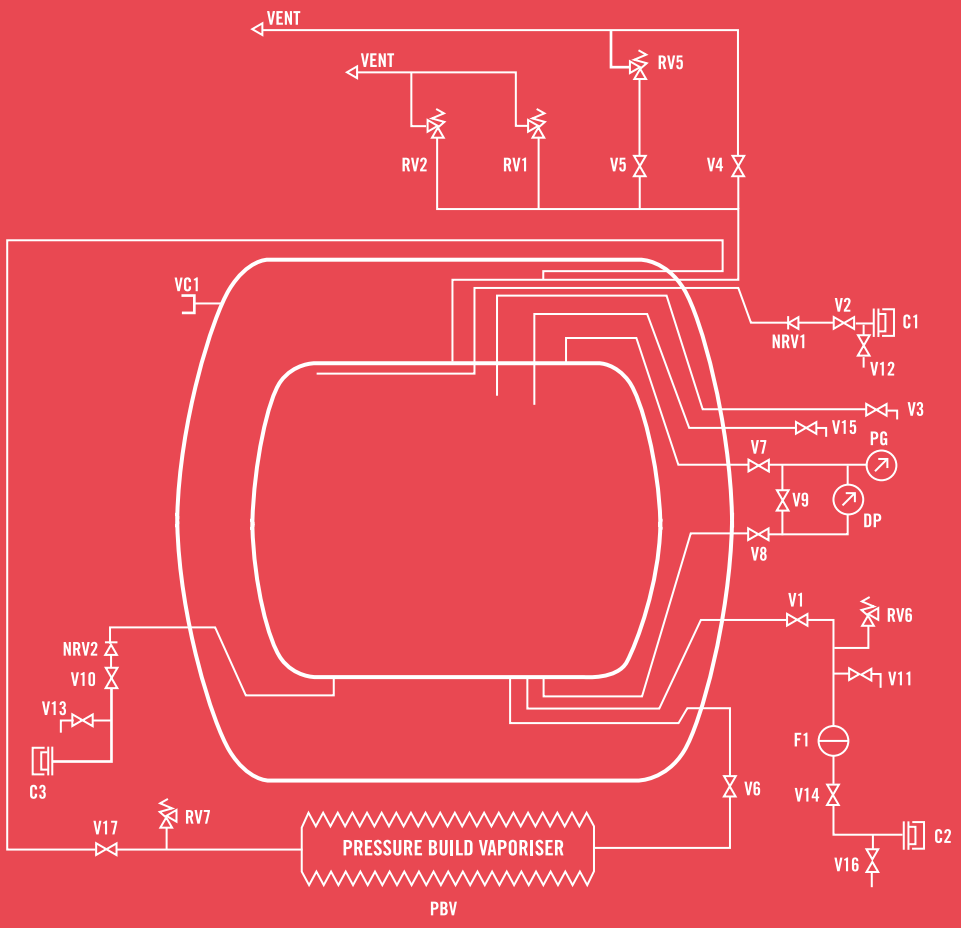
wessington cryogenics

ISO PACK
2000 SERIES
TANKS

Valves / Pipework (LIN, LOX, LAR)

V1	Liquid Isolation Valve
V2	Top Fill Valve / Pump Return
V3	Try-Cock 95%
V4	Gas Vent Valve
V5	Traveller Valve
V6	Pressure Build Valve
V7	DP Gauge Low Pressure Line
V8	DP Gauge High Pressure Line
V9	DP Gauge Equalizing Valve
V10	Rear Bottom Fill
V11	Line Blow Down Valve
V12	Line Blow Down Valve
V13	Line Blow Down Valve
V14	Liquid Decant / Fill Valve
V15	Secondary Trycock
V16	Line Blow Down Valve
V17	Vaporiser Isolation Valve
VC1	Vacuum Pumping Port
PG	Pressure Gauge
DP	Differential Contents Gauge
C1	Top Fill Connection
C2	Front Fill / Decant Connection
C3	Rear Fill Connection
RV1	Primary Relief Valve
RV2	Primary Relief Valve
RV5	Road Relief Valve
RV6	Line Relief Valve
RV7	Line Relief Valve
NRV1	Non Return Valve
NRV2	Non Return Valve
F1	Strainer

Interconnector/locking device



Tank schematic shows standard configuration, utilising Herose Globe Valves.

Options:-

Option 1: Rear Fill direct to rear of tank allowing concurrent bottom fill / liquid decant (this is default version of ISO PACK tanks but can be removed from specification on request).

Option 2: Rear Fill external to tank via main Tank Isolation Valve.

Option 3: Any of the above arrangements with Meca Inox Cryogenic Ball Valves as alternative to Herose Globe Valves.

Dimensions	Length (mm)	Height (mm)	Width (mm)
Dimensions	2,991	2,591	2,438
Dimensions of 2 x Locked Units (for shipping purposes whilst empty)	6,058	2,591	2,438

Version 1 - 4.2013

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