



Plug-in Medical Cold Room



Preliminary

Vaccine Storage, Blood Plasma Storage
and Pharmaceuticals

Temperature Range: +8°C to -30°C



PIMCR

Portable Pre-Fabricated Storage Solutions for Critical Applications



Portable

This pre-fabricated, factory-tested cold room can be installed at the existing site and relocated, with minimal interference to the client's daily activities.



Fast

Ready to use at site within few hours of arrival while conventional cold room construction at site may take weeks and months.



Easy

Weather-proof construction. No hassle of additional shed requirement at site and just one power supply source.



Reliable

Factory-assembled and tested by highly skilled engineers while conventional cold-rooms are constructed on site.



High Energy Efficiency

Efficient operation on its equipment for lower electricity consumption.



R-448A

Green refrigerant with zero ODP and low GWP and contributes to reducing CO2 emission.

Capacity Table

T_A (°C)	T_c (°C)	Gross Cooling Capacity (kW)	Absorbed Current (A)	Absorbed Power (kW)
+43	-30	4.5	19.3	9.9
+43	-25	6.2	19.4	9.9
+43	-20	8.1	19.6	10.0
+43	-15	10.5	20.0	10.3
+43	<-10	13.2	20.6	10.6

Applications



Primary Application:
Vaccine and Blood Plasma Storage



Secondary Application:
Frozen Exotic Seafood



Key Features

- Medical-grade
- 100% refrigeration system backup
- Auto changeover
- 150mm quadcore insulation
- Anti-bacterial and hygiene floor
- Emergency safety buttons
- Data logging and remote management

Design Options

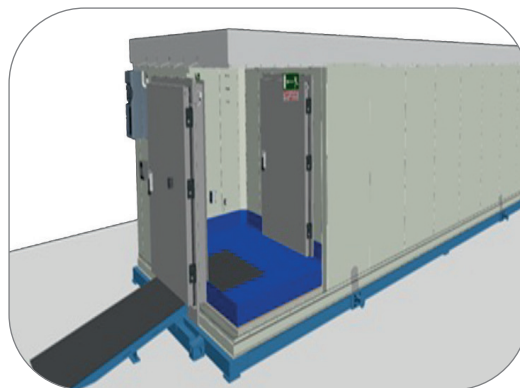
Option 1

- 94 m³ Internal Clear Volume; 11.1 X 3.5 X 2.4 m Internal space dimension. Providing free maneuvering space for 18 Pallets – each 1.6Tn



Option 2

- 77 m³ Internal Clear Volume; 9.1 X 3.5 X 2.4 m Internal space dimension. Providing free maneuvering space for 14 Pallets – Each 1.6Tn
- 19m³ Receiving (Staging) area at controlled temperatures of -5 - +10°C (Optional Ramp)



Technical Details

Type	Freezer Room	Freezer Room with Ante Area
Room Construction	Option 1: Single Compartment	Option 2: Double Compartment
Model	PIMLSS12AY1	PIMLDS12AY1
Internal Volume (M3)	94 M3	Freezer-74 M3; Ante Room-19M3
Overall External Dimensions (W x D x H mm)	12240 x 3870 x 2840	
Shipping Weight - Empty (Kg)	7,500	7,800
Wall & ceiling panel finish	Flat Surface PVDF - polyvinylidene fluoride	
Floor panel finish	3mm, Anti-bacterial, Anti-Slip GRP re-enforced panel.	
Panel insulation material	Isophenic Foam with high density of 40Kg (+/- 2Kg)/cbm	
Panel connection system	Tounge & Groove	
U-value (W/m ² K) 150 mm	0.12 0.12	
Freezer: Panel insulation thickness (mm)	150 mm 150 mm	
Door opening (W x H mm); thickness (mm)	1500 x 2000; 120 mm	1500 x 2000; Freezer: 120mm, Ante room: 90 mm
Strip Curtain	Freezer-Yes, Ante Room- N/A	
Door Frame heater	Freezer-Yes, Ante Room- N/A	
Internal LED lighting	Yes	
Pressure relief valve	Freezer-Yes, Ante Room- N/A	
additional Temp. Gauge	Freezer-Yes, Ante Room- N/A	
STORAGE OPTIONS	User Scope- Design is flexible to use Pallets, Crates or Racking. Below Illustration is for two row-single aisle Pallet storage using manual operated hydrolic fork	
Pallet Dimensions & Quantities (W x D x H mm)	1100 x 850 x 1500 = 16nos 1100 x 850 x 1300 = 2nos	1100 x 850 x 1500 = 12nos 1100 x 850 x 1300 = 2nos
Total Pallet Quantities	18nos	14 Nos.
Pallet mounting (user scope)	Self - Floor Standing Self - Floor Standing	
Pallet type/material	User scope	

Type	Freezer Room	Freezer Room with Ante Area
Cooling Unit Details	Freezer	Ante Room
Room Temperature (°C)	+8degC to -30degC	+2 to 10 degC
Unit Type	Monobloc	
Design ambient temp. (°C)	+43degC to -10degC	
Number of Units	2 Duty + Stand By	1 Duty
Duty sharing	Automatic and Manual option	N/A
Compressor Type & Qty	Scroll; # 2	Hermetic # 1
Refrigerant	R448A	R134a
Condenser Fan & qty	3 Ph EC Fans # 3	1 Ph Std Fans # 1
Evaporator Fans qty	2	1
Evaporator CFM	5085	360
Defrost method	Hot Gas	
Drain Defrost method	Electric Heater	N/A
Power Supply	380-415VAC, 3Ph, 50Hz	230VAC, 1Ph, 50Hz
Starter Required	Yes (Y/delta Starters) – By Others	DOL
Breaker Rating (A)	63	10
Battery back up	Yes (For controllers+ data logging + alarm System)	N/A
FREEZER SECTION- Remote Management and Data Logging		
Temperature Data Logger	Yes	
Remote Management	Yes	
SMS Alert	Yes	
Email alert	Yes	
Multiple location temp. logging	YES; 4 sensors	
STANDARDS & SAFETY		
Human Safety	Dual Safety – Internal Door Lock release, Trap Alarm	
Quality standard	ISO 9001 / ISO 14001	
Alarm system	Yes (High Temperature, Man Trap, Power Failure)	
Temperature recording	Yes	
Country of origin	UAE	



UAE

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