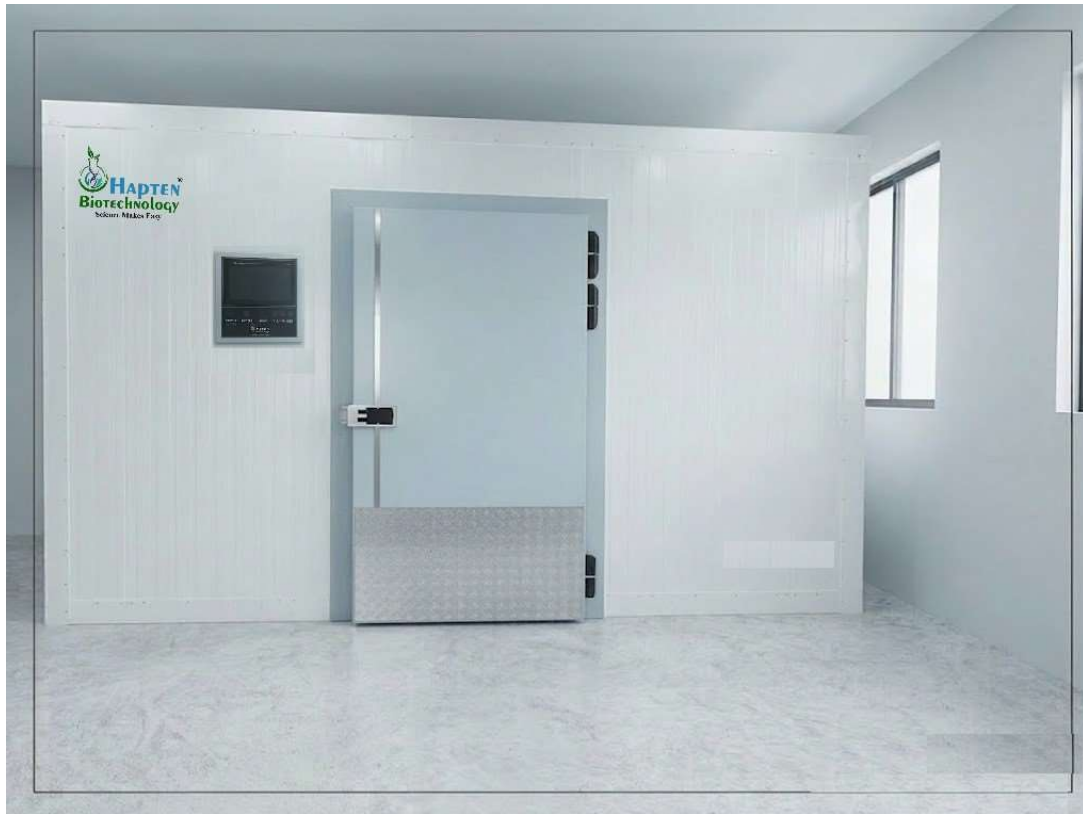


0°C WALK IN COLD ROOM



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Plot no. 38 , Kh No 52/5 , Nangli Poona Village , Delhi-110036 :



The **0°C walk-in cold rooms** from Hapten are designed to provide and sustain working temperatures as low as 0°C for the preservation and storage of a wide variety of storage items including poultry, meat, fruits and vegetables, flowers, bakery items, medicines, chemicals etc. These cooling equipment provide a positive working temperature range for the bulk storage of fruits and vegetables, vaccines etc. and a negative working temperature range for the storage of meat products and other temperature sensitive materials. **0°C walk-in cold room Manufacturers** provide these chambers in various sizes and configurations and can be custom-designed to suit specific requirements. Owing to their large storage capacities and flexible design, these equipment find widespread usage in butcheries, bakeries, restaurants, research laboratories, pharmacies, hospitals, mortuaries, flower shops etc.

0 Degree Cold Room are designed for excellent insulation and refrigeration capabilities. They are made up of prefabricated PUF insulated panels of varying thickness and use pre-coated GI sheets or stainless steel sheets for external and internal surfaces. The stainless steel construction adds rigidity and structure to the equipment and ensures non-corrosive, smooth and uniform external and internal surfaces. The excellent insulation panel provides maximum thermal efficiency and reduces the power consumption. All the walls, ceiling and door are well insulated for minimum energy consumption. The **Hapten Cold Room 0 Degree C** are available as easy to install, light weight equipment that can be readily assembled using cam-locking arrangement.

SALIENT FEATURES:

- Energy efficient
- Economical and cost effective
- Light weight fabricated units
- Microprocessor based controller
- Highly advanced control panel for fully automatic operation
- Digital thermostat
- Anti-condensation control and defrost control for trouble free operation
- Low noise, vibration free operation
- audio and visual alarms for over-temperature

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The units come equipped with an efficient light source and may feature automatic door closers or strip doors and other features to minimize infiltration within the storage area. The equipment uses wall mounted cooling units that are independently controlled by their thermostats for maintaining the temperature of the insulated storage chamber. Most of the available models use hermetic and reciprocating compressors and air cooled condensers for efficient refrigeration. The **0°C walk-in cold rooms** may also come equipped with audio and visual alarms for over-temperature and other out of spec parameters. The units may also be connected to temperature recorders to allow continuous monitoring of the cold room temperature. These cooling equipment come equipped with a wide array of safety features including circuit breaker to prevent voltage overload, low voltage protector to protect the equipment, alarm relay for operating the alarm system, alarm thermostat and indicator lamps for indicating the alarm condition.

These pre-fabricated cold rooms feature a simple yet efficient design and are operational with a simple plug-in to a power source. They also come equipped with a defrost control and anti-condensation control to prevent the formation of frost and condensation across the surfaces of the storage items. The **0°C walk-in cold rooms** use a highly advanced control panel for efficient control of the operating parameters. The equipment features a digital thermostat for displaying the actual temperature, allowing efficient control and easy adjustment of the working temperature. The units come equipped with CE certification for quality and safety.

DETAILED DESCRIPTION ALONG WITH SALIENT FEATURES ARE AS UNDER FOR REFRIGERATION MACHINE CONDENSING UNIT

AIR-COOLED CONDENSOR

Air-cooled condenser is internally grooved finned copper tubes used for high heat transfer area, which not only reduce power consumption, but also bring down the condensation faster. This unit is designed & verdigris & reduces the resistance, saves energy consumption and ensure good heat exchange.

COMPRESSOR:

- **HERMETIC COMPRESSOR** : Single stage Reciprocating Compressor. Give the High Efficiency compared to sealed compressors, Less Power Consumption , Accessible for repairing, low noise level, Less Vibrations, Wide Voltage Range, Designed for Extremely High Ambient etc.

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- **COOLING SYSTEM** : The compressor is mounted perfectly to ensure recommended level of sound and vibration.

REFRIGERATION CONTROL

- **Low and High Pressure switch of RANCO/Danfoss** : Which ensures the compressor and refrigeration system when low pressure will occurs it trip off the compressor. This is the only operator friendly switch can easily reset.
- **Hand Shut off Valve** : Is the only Condensing Unit, which is equipped with it. This valve is used for pump down the total gas in to the condenser & receiver in the faulty condition.
- **Liquid Dryer of Danfoss make** : Which is equipped in the liquid line for ministration of moisture in the liquid. It will collect all the moisture in side the refrigeration line as well as gas.
- **Solenoid Valve of Castle make** : In most refrigeration applications, in order to automatically control the flow of fluids in a system, it is necessary to be able to start or stop the flow in the refrigerant circuit. An electrically operated solenoid valve is usually used for this purpose. Its basic function is the same as a manually operated shutoff valve, but it can be positioned in remote locations, and may be conveniently controlled by simple electrical switches.
- **Oil Separator of Stainless Steel 304** : The oil separator intercepts the oil mixed with compressed gas and returns it into the crankcase of the compressor, thus assuring an efficient lubrication of its moving parts. Also, it improves the overall efficiency in the system.
- **Suction Accumulator** : Maximum Efficiency of the relief device (expansion valve) because it is supplied with sub cooled Liquid.

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TECHNICAL SPECIFICATIONS:

MODEL	HB-WCR
Size	As per customer requirement
Construction	PU Foam panels
Insulation	PU foam of density of 40±2 kg/m ³ as insulation
Working Temperature	0°C
Temperature Controller	Digital Temperature Controller
Temperature Tolerance	± 1 deg. C
Temperature Sensor	PT-100
Power Requirements	220/230V, 50/60Hz (three phase in Bigger Sizes)

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