



# intarPACK

## split

*intarPACK split* refrigeration units are designed for the refrigeration of large cold rooms.

*intarPACK split* series cover compressor power range from 4 to 60 HP, featuring long range cubic-type evaporating units and air-cooled *intarPACK* condensing units in two different constructions:

## intarPACK centrifugal

*intarPACK centrifugal* condensing units have been designed for indoor installation in an engine room. Medium pressure centrifugal motor-fan is incorporated for a ducted outlet of condenser's hot air.

## intarPACK low-noise axial

*intarPACK axial* condensing units have been developed for outdoor installation. Each model has been designed to run under extreme ambient conditions, featuring acoustic insulated components for lower noise levels.

- ✦ High power in small area.
- ✦ Tropicalised design for high ambient temperature.
- ✦ Rack of hermetic compressors with noise insulation.
- ✦ Minimum maintenance needs, with simple access through removable panels.



# intarPACK

## centrifugal

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### Description

Split units for positive and negative temperature cold rooms, with centrifugal condensation fans, full control board and electronic regulation with proportional control of condensation temperature.

### Features

- 400V-III-50Hz power supply.
- R-404A refrigerant.

#### CONDENSING UNIT

- Hermetic reciprocating or scroll compressors, with noise insulation, discharge muffler (for reciprocating compressor models), mounted on shock absorbers, with internal klixon and crankcase heater. Oil separator for negative temperature units with 2 scroll compressors.
- Condensing coil made in copper pipes and aluminium fins, tropicalised for ambient temperature up to 45 °C.
- Medium-pressure centrifugal motor-fans with vertical or horizontal air outlet for a ducted extraction.
- Refrigeration circuit made in copper pipes, equipped with HP and LP switches, service valves, safety valves, liquid receiver and dehydratant filter.
- Proportional control of condensation temperature by fan speed control.
- Full control and power panel, with thermal protection (series 6 and 8) and MCB switch for compressors, motor-fans and defrosting heaters.
- Multifunctional electronic control with remote control keyboard.

#### EVAPORATING UNIT

- High performance evaporating coil, in copper pipes and aluminium fins, with 5 mm fin spacing. Stainless steel drain tray.
- Inbuilt thermostatic expansion valve and solenoid valve in the evaporating unit.
- Defrosting by electrical heaters imbricated in coil.
- Long-range axial motor-fans mounted on nozzles, dynamically balanced blades and external protection grille.

### As an option

- Horizontal air outlet for condensing unit.
- Oil separator (already included for negative temperature units with 2 scroll compressors).
- Anticorrosion coil coating.
- Module for external communication through ModBus protocol and RS485 connection.
- Bi-temperature operation system (for BSV-SCF units).

# intarPACK



## Description

Split units for positive and negative temperature applications, built in a galvanised steel shell with polyester coating, featuring one or two industrial cubic-type evaporating units and an air-cooled condensing unit designed for outdoor installation.

## Features

- 400V-III-50Hz power supply.
- R-404A refrigerant.

### CONDENSING UNIT

- Hermetic reciprocating or scroll compressors, with noise insulation, discharge muffler (for reciprocating compressor models), mounted on shock absorbers, with internal klixon and crankcase heater. Oil separator for negative temperature units with 2 or 4 scroll compressors.
- U-shaped large area condensing coil made in copper pipes and aluminium fins, tropicalised for ambient temperature up to 45 °C.
- Low-speed axial motor-fans, mounted on nozzles, dynamically balanced blades and external protection grille.
- Refrigeration circuit with single or double suction line, made in copper pipes, equipped with HP and LP switches, service valves, safety valves, liquid receiver, dehydratant filter and sight glass.
- Full control and power panel, with thermal protection and MCB switch for motors and defrosting heaters, and circuit breaker for each refrigeration circuit (series 5).
- Electronic regulation through power stages, proportional control of condensing temperature and remote control keyboard.

### EVAPORATING UNIT(S)

- High performance evaporating coil, in copper pipes and aluminium fins, with 5 mm fin spacing. Stainless steel drain tray.
- Inbuilt thermostatic expansion valve and solenoid valve in the evaporating unit.
- Defrosting by electrical heaters imbricated in coil.
- Long-range axial motor-fans mounted on nozzles, dynamically balanced blades and external protection grille.

## As an option

- Oil separator (already included for negative temperature units with 2 or 4 scroll compressors).
- Anticorrosion coil coating.
- Two evaporating units (series 1 to 4).
- Module for external communication through ModBus protocol and RS485 connection.
- Bi-temperature operation system (for BSE-SF units).

## Versions

### **MSE - High and medium temperature (-5 °C... + 10 °C)**

Low-noise axial split refrigeration systems for positive temperature cold rooms.

### **BSE - NEGATIVE TEMPERATURE (-25 °C ...-15 °C)**

Low-noise axial split refrigeration systems for negative temperature preservation in cold rooms.

## Applications

**intarPACK** are specifically designed systems for large cold room applications at positive and negative temperature.