CC Series

Multi compressors rack unit with Scroll/Digital scroll and hermetic reciprocating compressors

General features:

- Capacity for MT cooling: 7,2 kW to 26 kW
- Capacity for LT cooling: 6,6 kW to 12 kW
- Ambient temperature range : - 25°C - +43°C
- R-134a, R-449A, R-448A, R-452A, R-407F, R-407A
- !! Copeland scroll/digital scroll, Tecumseh and Maneurop reciprocation hermetic compressors
  Other types, brands and capacities are possible upon request
- Conditions:
  MT: Ambient temperature: 35°C Evp. Temperature: -10°C
  LT: Ambient temperature: 35°C Evp. Temperature: -35°C

Standard configuration:

Basic Frame Version:
Basic frame made from folded and pre-painted steel sheet, with complete closed frame with simple sound proof material and anti-vibration
Supports (CC Standard)

Basic Refrigerating System:
The compressors (3 or 4) are connected in parallel, with one suction and discharge header. Each compressor is fitted with shut-off valves on suction line and discharge line.
The compressors are fixed to the frame through rubber anti-vibration supports.
The oil equalization system is composed of an oil separator and an equalization header, which are mounted on the compressor oil sight glass connection.
According to the number of compressors fitted, there is one or two oil level indicator/s, fitted onto the equalization header.
The refrigerating system is equipped with liquid receivers, if there is more than one receiver, the installation is made in parallel with a safety valve, a dehydration cartridge filter, interchangeable, liquid level alarm, liquid sight glass and shut-off valves.
On suction line there is a mechanical cartridge filter, interchangeable.

Nomenclature:

CC-E: Scroll compressor
CC-ED: Digital scroll compressor
CC-H: Hermetic reciprocating compressor
(Tecumseh or Maneurop)

The refrigerating system is fitted with:

- General high pressure switch, adjustable and auto-resetting
- General low pressure switch, adjustable and auto-resetting
- Emergency low pressure switch, adjustable and auto-resetting
- Low pressure switches for each compressor emergency, adjustable and auto-resetting
- High pressure switches to control condenser fans, adjustable and auto-resetting
- Low pressure probe, placed on suction header for capacity control
- High pressure gauge
- Low pressure gauge
- With or without integrated condenser

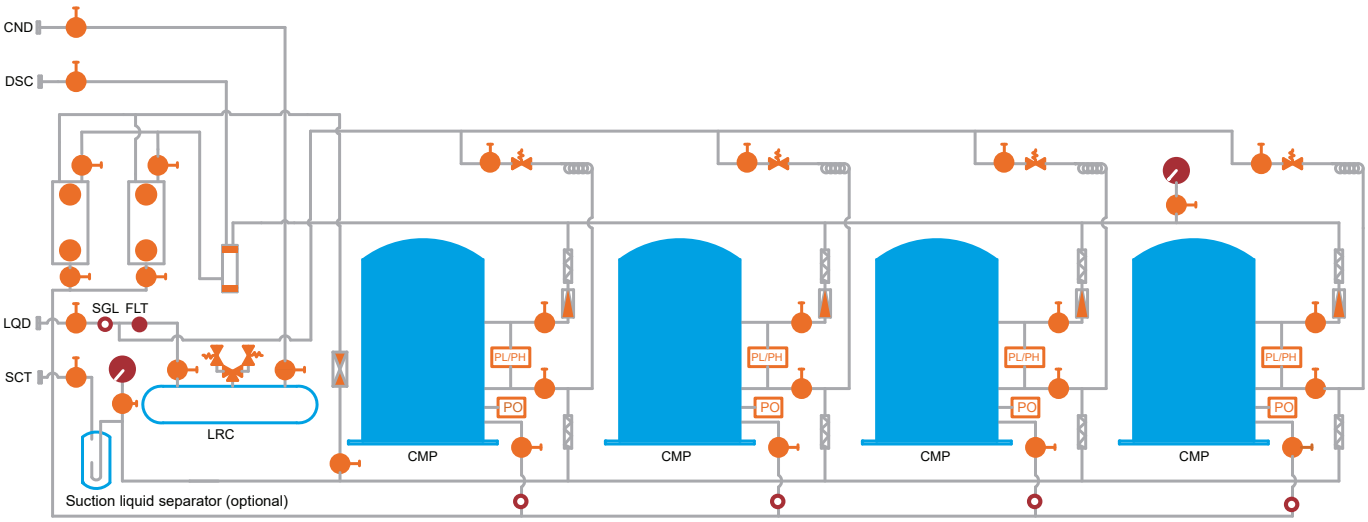
Electrical panel:

Standard power distribution
Disconnecting switch
Compressors protection, with overload cut-out motor protector; fuses for fans protection, thermo contacts for each single fan
Auxiliary circuit 230 volt through transformer 400V/230V
Electronic card XC440C
IP55 with greed and ventilation fan
On the door there is the electronic card and 4 lamps: emergency (button + lamp), fans block, high pressure switch block, low pressure
Switch block, and selector for on/off compressors.
Condensation control through pressure switches: 1 pressure switch every 2 fans, standard 2 pressures

For technical selection, prices, accessories and delivery time please use the Zanotti software and contact our technical department. We are happy to help you.

CC Series

Refrigeration flow diagram and main components

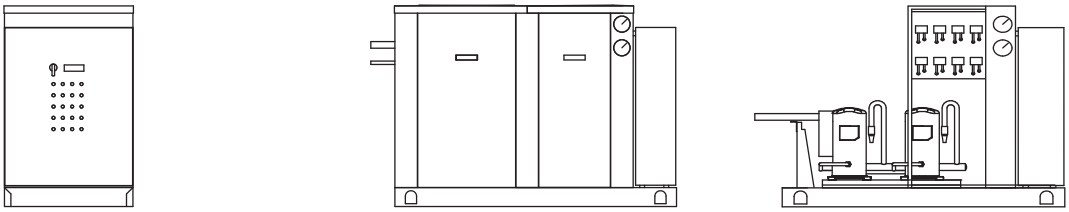


Legend:

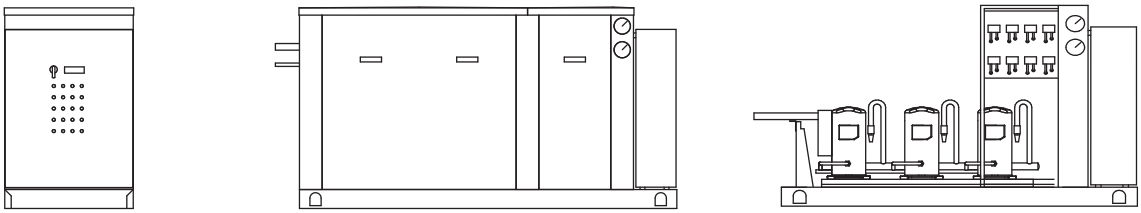
CMP: compressor
SCO: service valve
SGL: sight glass
PL: LP switch
PH: HP switch
SVA: safety valve
LRC: liquid receiver
FLT: filter dryer
VAL: closing valve
OSGL: oil sight glass
CND: condensing connection
DSC: discharge connection
LQD: liquid connection
SCT: suction connection

Drawings and dimensions

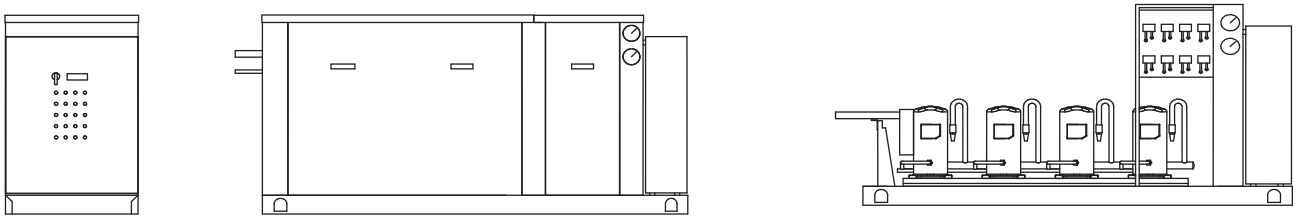
Frame CC1



Frame CC2



Frame CC3



(mm)	Frame 1	Frame 2	Frame 3
A	Dimensions on request		
B			
C			

Multi compressor rack unit with semi hermetic compressors

General features:

- Capacity for MT cooling: 25 kW to 320 kW
- Capacity for LT cooling: 13 kW to 133 kW
- Ambient temperature range : - 25°C - +43°C
- R-134a, R-449A, R-448A, R-452A, R-407F, R-407A
- !! Reciprocating semi hermetic compressors: Bitzer, Dorin, Frascold, Copeland stream
  Other types, brands and capacities are possible on request
- Conditions:
  MT: Ambient temperature: 35°C Evp. Temperature: -10°C
  LT: Ambient temperature: 35°C Evp. Temperature: -35°C

CC Semi hermetic

Standard configuration:

Basic Frame Version:
Basic frame made from folded and painted steel sheet, screwed with bolts to make a basic structure to fix the components on it.

Basic Refrigerating System:
The compressors (3 or 4) are connected in parallel, with only one suction and discharge header. Each compressor is fitted with shut-off valves on suction line and discharge line.
The compressors are fixed to the frame through rubber anti-vibration supports.
Compressors used for low temperature are complete with fan heads.
The oil equalization system is composed of an oil separator and an equalization header, which are mounted on the compressor oil sight glass connection.
According to the number of compressors fitted, there is one or two oil level indicator/s, fitted onto the equalization header.
The refrigerating system is equipped with liquid receivers, if there is more than one receiver, the installation is made in parallel with a safety valve, a dehydration cartridge filter, interchangeable, liquid level alarm, liquid sight glass and shut-off valves.
On suction line there is a mechanical cartridge filter, interchangeable.

Nomenclature:

CC- B Bitzer
CC- D Dorin
CC- C Copeland stream
CC- R Frascold

The refrigerating system is fitted with:

- General high pressure switch, adjustable and auto-resetting
- General low pressure switch, adjustable and auto-resetting
- Oil pressure switch for each compressor
- Emergency low pressure switch, adjustable and auto-resetting
- Low pressure switches for each compressor emergency, adjustable and auto-resetting
- High pressure switches to control condenser fans, adjustable and auto-resetting (the pressure switches control 2 fans; if there are more than 4 condenser fans, the quantity of pressure switches installed increases to a maximum of 4)
- Low pressure probe, placed on suction header for capacity control
- High pressure gauge
- Low pressure gauge

Electrical panel:

Standard power distribution
Disconnecting switch
Compressors protection, with overload cut-out motor protector, fuses for fans protection, thermos contacts for each single fan
Auxiliary circuit 230 volt through transformer 400V/230V
Electronic card XC440C
IP55 with greed and ventilation fan
On the door there is the electronic card and 4 lamps : emergency (button + lamp), fans block, high pressure switch block, low pressure
Switch block, and selector for on/off compressors
Condensation control through pressure switches: 1 pressure switch every 2 fans, standard

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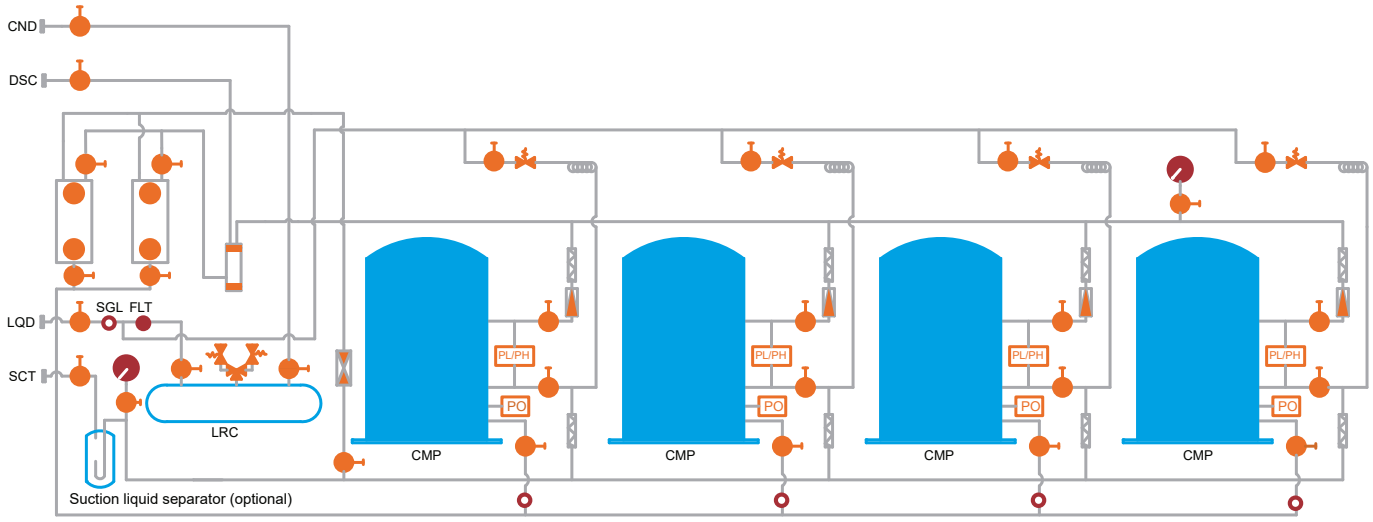
CC Series

Refrigeration flow diagram and main components

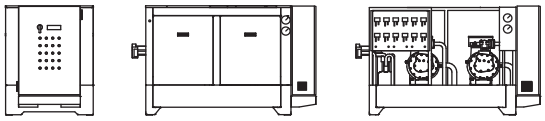


Legend:

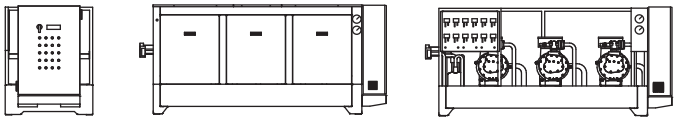
CMP: compressor
SCO: service valve
SGL: sight glass
PL: LP switch
PH: HP switch
SVA: safety valve
LRC: liquid receiver
FLT: filter dryer
VAL: closing valve
OSGL: oil sight glass
CND: condensing connection
DSC: discharge connection
LQD: liquid connection
SCT: suction connection

Drawings and dimensions

Frame CC1



Frame CC2



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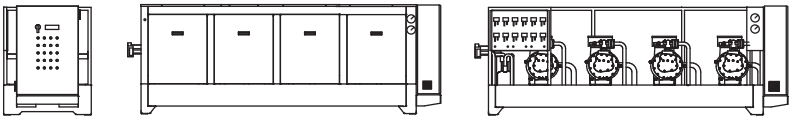

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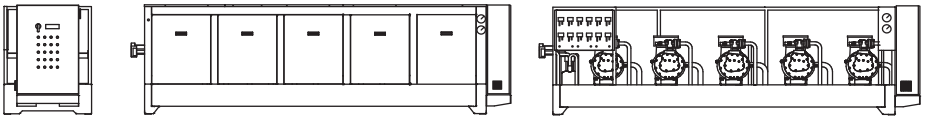

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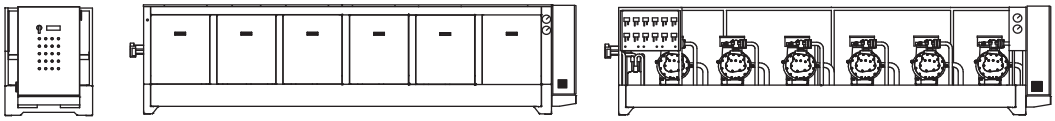

(mm)	Frame 1	Frame 2	Frame 3
A	Dimensions on request		
B			
C			

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