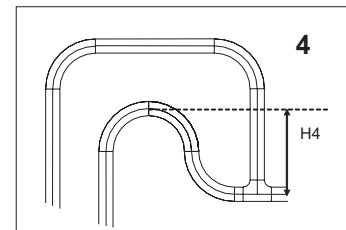
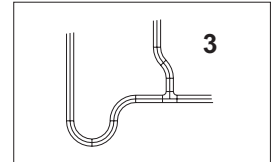
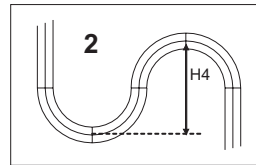
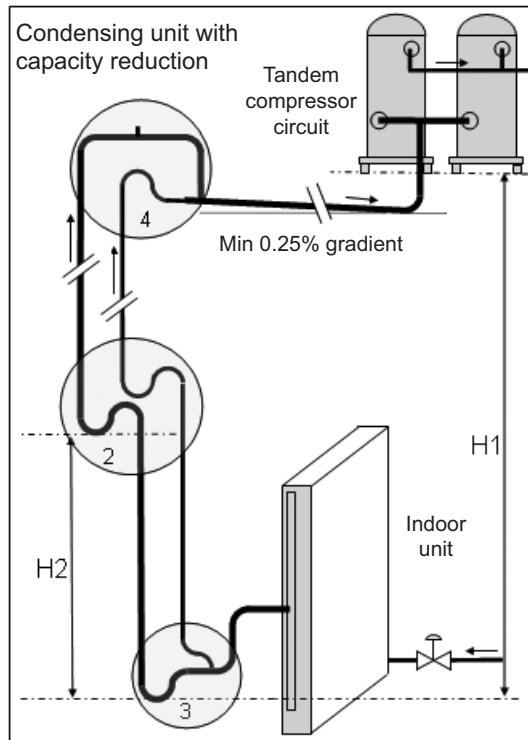


PIPE CONNECTIONS

ADDITIONAL CAPACITY STEP

112D to 152D units with 3 compressors can be work using three capacity steps. (They can use the last one as an additional step).

See the picture below for the installation if an additional capacity step is used for units with tandem compressor circuit. An additional gas line has to be used to assure the correct operation of the system.



H1: 15m Max
H2: 5m Max
H4: 0,15m Min

2 - Coupled trap.
3 - Lower trap with double tubes.
4 - Higher trap with double tubes.

OPTIONS

ON/OFF CONDENSATION PRESSURE CONTROL

The condensation pressure control consists of one or two pressure switches, which starts and stops the outdoor fan, regulating the condensation temperature; thus the unit will be able to operate in the cooling cycle when the outdoor temperature is below 19°C (until 0°C). It includes crankcase heater for units 10E to 86D. For units 112D to 152D crankcase heater is included with the unit as standard. The purpose of the heater is to keep the oil in the compressor at the correct temperature while the compressor is stopped, so that it can be properly lubricated when starts again. When the unit is operating at low outdoor temperatures (below 19°C), it is advisable to fit a crankcase heater. It is included as standard with FP1/FP2 option.

PROPORTIONAL CONDENSING PRESSURE CONTROL

It is an element which regulates outdoor fan speed, in order to control condensation temperature. Thus, the unit will be able to operate when the outdoor temperature is below 19°C (until -10°C). This kit also includes crankcase heater for units 10E to 86D. For units 112D to 152D crankcase heater is included with the unit as standard.

MAIN SWITCH (only for models 24E to 152D)

The main switch is located on the access panel to the electrical box. It is equipped with a clutch gadget, which allows opening the panel of the electrical box, when it is on OFF position.

PHASE SEQUENCER

The phase sequencer is located in the electrical box in the outdoor section, thus assuring that the unit will not begin operation while the phase connection of the compressor is not correct. Should this occur, then just switch two phase connections.

COMPRESSOR STARTING CURRENT CONSTRAINED ("SOFT STARTER") 400V-III (only for models 24Eto152D)

It is an electronic element, which reduces the peak compressor starting current up to 40% (see pages of electrical data without soft starter).

HOT GAS BYPASS VALVE (only for models 24E to 152D)

The purpose of the BYPASS valve is to let the unit operate at low outdoor temperatures (until -10°C).

It regulates the capacity of the compressor by injecting hot gas from the compressor discharge side to the coil.