

Сдвоенные конденсаторные установки CU-Twin

Технические характеристики

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Configuration with various types of Twin compressors

The CU Twin series models are twin compressor compact condensing units, suitable for outdoor installations, silenced for residential environments and suitable for commercial applications.

The series is divided into 2 product lines. One line with working temperatures from +5°C to -20°C and one line with working temperatures from -15°C to -40°C.

The configuration of these units enables a wide choice among many compressors types:

- › Scroll Digital Twin compressors
- › Bitzer Twin semi-hermetic compressors

The capacity range covered and the way the units are designed and built make the compact CU Twin extremely versatile components of an efficient refrigerating system suitable to meet wide range of customers' requirements.

All the units are assembled starting from a solid steel sheet body structure.

The particular internal configuration of these condensing units allows to reduce the noise level of the system: soundproofed compartments accommodate the two compressors that, together with the large surface condensers and low rpm 6-pole axial fans, allow to achieve efficient and silenced performance.

The condensing unit is equipped with filter dryer and sight glass, to guarantee controlled and optimized operation.

Supplied with pressurized nitrogen, the condenser is complete with connection piping with compressors and liquid receiver also supplied.

These units are equipped with adjustable minimum and maximum pressure switches with automatic reset.

The CU Twin units are suitable for outdoor installation on the floor, but it is also possible to accommodate them on the ceiling according to the structural needs of the user.

The units are equipped with crankcase heater that makes them suitable for outdoor installation and with optimized performance.

The switchboard is equipped with protection magnetothermal switches. Together with the electronic control unit and the compressors emergency management system, all these features complete the profile of an efficient, safe and extremely versatile unit.

Standard configuration

Types of compressor:

- › 2 Copeland scroll compressors in parallel with one Digital (only CU-W series)
- › 2 Bitzer compressors in parallel (only CU-L)

Standard on all range:

- › Air cooled, axial fan
- › Pressure controlled fan speed controller
- › Crankcase heater
- › Oil separator also suction accumulator for low temperature
- › Control panel with circuit breakers
- › Electronic controller
- › Voltage monitor (only CU-W series)
- › Double acoustic insulation
- › Liquid Receiver
- › Safety valve
- › Liquid receiver shut off valves
- › Filter dryer on liquid line
- › Sight glass
- › Six-pole condenser fan
- › Condensing unit under nitrogen pressure
- › Adjustable Lp switch with automatic reset
- › Adjustable Hp switch with automatic reset
- › Muffler on discharge line
- › Power control box with magnetothermal switches + thermal protection + electronic controller

Personalization options and accessories

Power options:

- › 220-230/3~/50
- › 220-230/3~/60
- › 440/3~/60
- › 380-400/3N~/60
- › 460/3~/60



Technical data

Digital scroll hermetic compressors medium temperature units (CU-W)

Code	GCU4060W3B1D5R	GCU4080W3B1D5R	GCU4100W3B1D5R	GCU4120W3B1D5R	GCU5160W3B1D5R
Refrigerant group	R134a R513A R450A	R134a R513A R450A	R134a R513A R450A	R134a R513A R450A	R134a R513A R450A
Power supply [V/Ph~/Hz]	380- 400/3N~/50	380- 400/3N~/50	380- 400/3N~/50	380- 400/3N~/50	380- 400/3N~/50
HP compressor	6	8	10	12	16
Compressor model	ZB21+ZBD21	ZB29+ZBD29	ZB38+ZBD38	ZB45+ZBD45	ZB57+ZBD57
PED category	2	2	2	2	2
Working temperature [°C]	+5 ÷ -20	+5 ÷ -20	+5 ÷ -20	+5 ÷ -20	+5 ÷ -20
Cooling capacity [Watt] [TEV=-10°C TA=30°C]	R134a 321÷ 6.412	404 ÷ 8.079	520 ÷ 10.394	613 ÷ 12.252	796 ÷ 15.920

Code	GCU4060W2B1D5R	GCU5080W2B1D5R	GCU5100W2B1D5R	GCU5120W2B1D5R	GCU5160W2B1D5R
Refrigerant group	R404A R449A	R404A R449A	R404A R449A	R404A R449A	R404A R449A
Power supply [V/Ph~/Hz]	380- 400/3N~/50	380- 400/3N~/50	380- 400/3N~/50	380- 400/3N~/50	380- 400/3N~/50
HP compressor	2x3	2x4	2x5	2x6	2x8
Compressor model	ZB21+ZB21D	ZB29+ZBD29	ZB38+ZBD38	ZB45+ZBD45	ZB57+ZBD57
PED category	2	2	2	2	2
Working temperature [°C]	+5 ÷ -20	+5 ÷ -20	+5 ÷ -20	+5 ÷ -20	+5 ÷ -20
Cooling capacity [Watt] [TEV=-10°C TA=30°C]	R404A 523 ÷ 10.469	742 ÷ 14.831	911 ÷ 18.220	1.094 ÷ 21.883	1.420 ÷ 28.392
	R449A 504 ÷ 10.072	695 ÷ 13.900	901 ÷ 18.019	1.040 ÷ 20.799	1.351 ÷ 27.013

Bitzer semi-hermetic compressors medium temperature units (CU-L)

Code	GCU4040L3B1D4R	GCU4060L3B1D4R	GCU4080L3B1D4R	GCU5120L3B1D4R	GCU5140L3B1D4R	GCU5180L3B1D4R
Refrigerant group	R134a R513A R450A	R134a R513A R450A	R134a R513A R450A	R134a R513A R450A	R134a R513A R450A	R134a R513A R450A
Power supply [V/Ph~/Hz]	380- 400/3N~/50	380- 400/3N~/50	380- 400/3N~/50	380- 400/3N~/50	380- 400/3N~/50	380- 400/3N~/50
HP compressor	4	6	8	12	14	18
Compressor model	2x2DES-2Y	2x4FES-3Y	2x4EES-4Y	2x4CES-6Y	2x4VES-7Y	2x4TES-9Y
PED category	2	2	2	2	2	2
Working temperature [°C]	+5 ÷ -20	+5 ÷ -20	+5 ÷ -20	+5 ÷ -20	+5 ÷ -20	+5 ÷ -20
Cooling capacity [Watt] [TEV=-10°C TA=30°C]	R134a 8.563	10.918	14.198	20.329	21.910	26.463

Code	GCU4046L2B1D4R	GCU4060L2B1D4R	GCU4070L2B1D4R	GCU5100L2B1D4R	GCU5120L2B1D4R	GCU5150L2B1D4R
Refrigerant group	R404A R449A	R404A R449A	R404A R449A	R404A R449A	R404A R449A	R404A R449A
Power supply [V/Ph~/Hz]	380- 400/3N~/50	380- 400/3N~/50	380- 400/3N~/50	380- 400/3N~/50	380- 400/3N~/50	380- 400/3N~/50
HP compressor	2x2,3	2x3	2x3,5	2x5	2x6	2x7,5
Compressor model	2x2FES-3Y	2x2EES-3Y	2x2DES-3Y	2x4FES-5Y	2x4EES-6Y	2x4DES-7Y
PED category	2	2	2	2	2	2
Working temperature [°C]	+5 ÷ -20	+5 ÷ -20	+5 ÷ -20	+5 ÷ -20	+5 ÷ -20	+5 ÷ -20
Cooling capacity [Watt] [TEV=-30°C TA=30°C]	R404A 9.359	12.080	13.890	19.403	24.185	28.077
	R449A 9.034	11.314	13.136	18.389	22.991	26.269

Bitzer semi-hermetic compressors low temperature units (CU-L)

Code	HCU4100L2B1D4R	HCU4120L2B1D4R	HCU4150L2B1D4R
Refrigerant group	R404A R449A	R404A R449A	R404A R449A
Power supply [V/Ph~/Hz]	380- 400/3N~/50	380- 400/3N~/50	380- 400/3N~/50
HP compressor	2x5	2x6	2x7,5
Compressor model	2x4EES-4Y	2x4DES-5Y	2x4CES-6Y
PED category	2	2	2
Working temperature [°C]	-15 ÷ -40	-15 ÷ -40	-15 ÷ -40
Cooling capacity [Watt] [TEV=-30°C TA=30°C]	R404A 9.393	11.289	12.811
	R449A 8.030	9.467	11.494

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