



Компрессорно-конденсаторные агрегаты **CONDENCIAT CL2** Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Архангельск (8182)63-90-72

Астана +7(7172)727-132

Белгород (4722)40-23-64

Брянск (4832)59-03-52

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Ижевск (3412)26-03-58

Казань (843)206-01-48

Калининград (4012)72-03-81

Калуга (4842)92-23-67

Кемерово (3842)65-04-62

Киров (8332)68-02-04

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Новосибирск (383)227-86-73

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Тверь (4822)63-31-35

Томск (3822)98-41-53

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Ульяновск (8422)24-23-59

Уфа (347)229-48-12

Челябинск (351)202-03-61

Череповец (8202)49-02-64

Ярославль (4852)69-52-93

сайт: www.ciat.nt-rt.ru | эл. почта: cta@nt-rt.ru

“
Outdoor condensing unit
for direct expansion applications
Variable speed propeller fan”



Cooling capacity: 6.8 to 18.6 kW



Cooling



USE

The **CONDENCIAT CL2** units with air-cooled condensers are designed for small sized refrigerating installations. They are particularly suitable for industrial process, small shops, offices, restaurants.

Installed outdoors (propeller fan), they are directly connected, through refrigerant piping, to a direct water or air expansion exchanger.

They can be combined with a wide variety of indoor exchangers:

- Air handling box coil
- Separate water-cooling evaporator, EXEL, HF, FYN types
- Integrated into a precision air handling cabinet such as Expar.
- Any type of comfort unit of equivalent capacity

We remind you that the control of air handling units should be studied with care when the direct expansion solution has been selected.

DESCRIPTION

Standard equipment

- Scroll compressor
- Crankcase heater on 50 - 65 - 75 models
- Air-cooled condenser, copper tubes coil, aluminium fins
- Propeller fan(s) (1 or 2 depending on models) with EC motor
- Year-round operation
- Condensing pressure control through fan speed variation (pressure sensor)
- Refrigerant connections (FLARE connectors)
- Operation for outside temperatures between: -15°C and +45°C
- Casing in “ABS” synthesis material, recyclable and UV-stabilised, light and sturdy. Its exclusive and high-quality design facilitates its integration into its surroundings.

- Conforms to norms and directives:

→ CEM 2004/108/EC

→ BT 2006/95/EC

→ DEP 97/23/EC

Optional equipment

- Antivibration mounts kit
- Wall support kit (models 28, 35)
- Crankcase heater on models 28, 35
- Thermostatic expansion kit
- Blygold pump kit

CONDENCIAT CL2

QUICK SELECTION

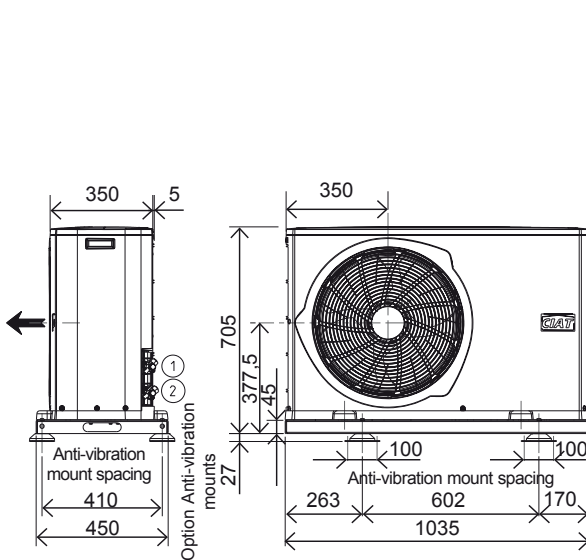
CONDENCIAT CL2

CONDENCIAT CL2	Number of circuits	Number of compressors	Cooling capacity (kW)	Power consumption (kW)
28	1	1	6.8	2.6
35	1	1	8.6	3.5
50	1	1	12.1	4
65	1	1	14.5	4.9
75	1	1	18.6	6.8

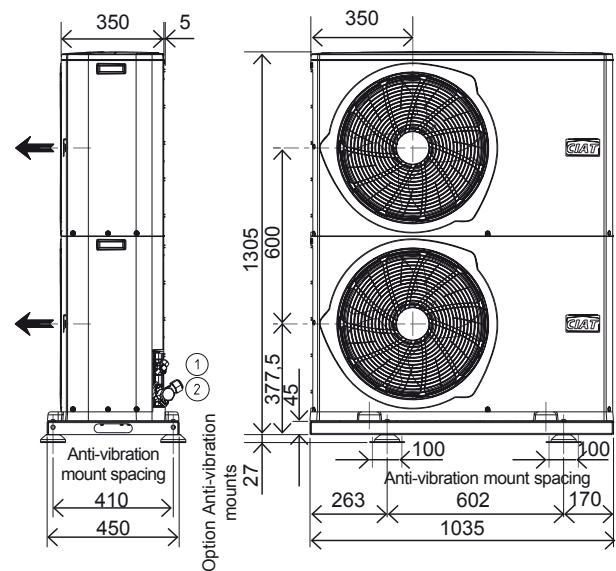
CL2 refrigerant fluid R410A
 Evaporation temperature + 2 °C
 DB air temperature at condenser = + 35 °C

DIMENSIONS

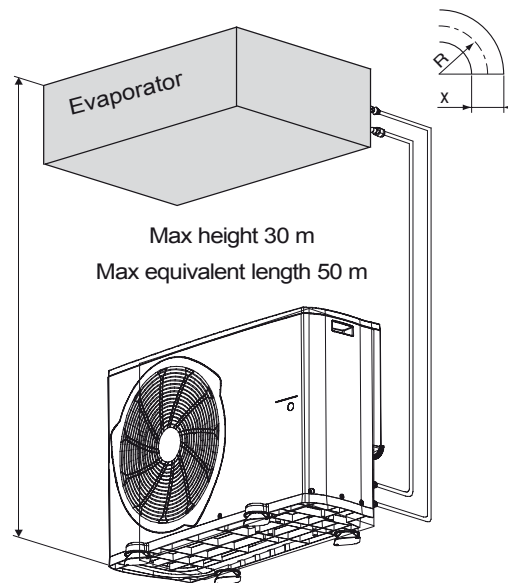
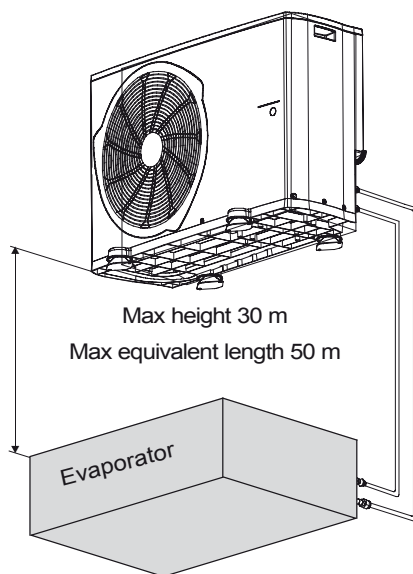
Models 28 and 35



Models 50, 65 and 75



CONNECTION



Equivalent length for 90° angle:

Tube diameter (inches)	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"
Equivalent length (m)	0.25	0.35	0.45	0.55	0.65	0.7

All the network accessories must be taken into account.

COOLING CAPACITIES

CL2		Condenser inlet temperature (°C)										
		25		30		35		40		45		
		Pf kW	Pa kW	Pf kW	Pa kW	Pf kW	Pa kW	Pf kW	Pa kW	Pf kW	Pa kW	
R410A	Evaporating temperature (°C)											
	-2	6.8	2.0	6.4	2.3	5.9	2.6	5.6	2.9	5.1	3.3	
	0	7.4	1.9	6.9	2.3	6.4	2.6	5.9	2.9	5.5	3.2	
	2	7.9	1.9	7.3	2.3	6.8	2.6	6.3	3.0	5.8	3.3	
	28	4	8.3	2.1	7.8	2.3	7.3	2.6	6.8	2.9	6.3	3.3
	6	8.8	2.1	8.3	2.4	7.8	2.6	7.2	3.0	6.6	3.4	
	8	9.5	2.1	8.8	2.4	8.2	2.7	7.7	3.0	7.1	3.4	
	10	9.9	2.2	9.3	2.4	8.7	2.7	8.1	3.1	7.6	3.4	
	-2	8.5	2.8	8.0	3.1	7.4	3.5	6.9	3.9	6.4	4.3	
	0	9.1	2.8	8.5	3.1	8.0	3.5	7.4	4.0	6.9	4.3	
35	2	9.7	2.8	9.1	3.2	8.6	3.5	7.9	4.0	7.3	4.4	
4	10.3	2.9	9.7	3.2	9.1	3.6	8.4	4.0	7.7	4.5		
6	11.2	2.8	10.5	3.1	9.6	3.6	9.0	4.0	8.3	4.5		
8	11.6	3.0	10.9	3.3	10.2	3.7	9.5	4.1	8.7	4.6		
10	12.2	3.0	11.5	3.4	10.8	3.8	10.1	4.1	9.3	4.6		
50	-2	12.0	3.1	11.3	3.5	10.6	3.9	9.9	4.4	9.0	5.0	
0	12.9	3.1	12.1	3.5	11.4	3.9	10.6	4.4	9.8	5.0		
2	13.6	3.2	12.9	3.6	12.1	4.0	11.3	4.5	10.5	5.0		
4	14.4	3.2	13.7	3.6	12.9	4.0	12.0	4.5	11.1	5.1		
6	15.5	3.2	14.5	3.6	13.7	4.1	12.8	4.5	11.9	5.1		
8	16.5	3.2	15.4	3.7	14.5	4.1	13.6	4.6	12.6	5.1		
10	17.1	3.4	16.3	3.8	15.3	4.2	14.4	4.6	13.4	5.2		
65	-2	14.4	3.9	13.6	4.3	12.7	4.7	11.7	5.2	10.8	5.7	
0	15.4	3.9	14.5	4.3	13.6	4.8	12.6	5.3	11.7	5.8		
2	16.7	3.9	15.5	4.4	14.5	4.9	13.5	5.3	12.4	5.9		
4	17.4	4.1	16.4	4.5	15.4	4.9	14.4	5.4	13.4	5.9		
6	18.5	4.1	17.5	4.6	16.4	5.0	15.4	5.5	14.2	6.1		
8	19.9	4.1	18.8	4.5	17.4	5.1	16.3	5.6	15.2	6.1		
10	21.1	4.2	19.6	4.7	18.5	5.2	17.3	5.7	16.1	6.2		
75	-2	18.7	5.4	17.5	6.0	16.3	6.6	14.9	7.4	13.5	8.2	
0	19.7	5.6	18.4	6.2	17.4	6.7	16.0	7.5	14.7	8.2		
2	21.2	5.6	19.9	6.2	18.6	6.8	17.1	7.6	15.8	8.3		
4	22.5	5.7	21.1	6.3	19.7	7.0	18.4	7.6	16.7	8.5		
6	23.9	5.8	22.4	6.4	20.9	7.1	19.3	7.9	18.0	8.5		
8	26.0	5.7	23.8	6.5	22.2	7.2	20.5	7.9	18.8	8.8		
10	26.7	6.1	25.1	6.7	23.5	7.3	21.8	8.1	19.9	8.9		

Pa: Total absorbed capacity of the CL2 unit (compressor + fan + control)
 Pf: Cooling capacity

TECHNICAL CHARACTERISTICS

CONDENCIAT CL2		28	35	50	65	75	
Compressor	Number	1					
	Type	SCROLL					
	Oil capacity	1.25			1.7		
	Oil type	POE					
Refrigerant fluid		R410A					
Refrigerant weight	kg	1.6	2.65	2.75	3		
Power and intensity Crankcase heater	W/A	45W / 0.2A Option (1)		45W / 0.2A			
Coil type		Copper tubes - aluminium fins					
Fan	Type	Propeller - direct drive					
	Number	1		2			
	Flow	m ³ /h	2350	2770	4700	5540	5000
	Speed	Rpm	700	904	700	904	
Weight of unit	kg	69	69	101	112	118	
Connection	Ø Liquid line	Inches	3/8"			1/2"	
	Ø Intake line	Inches	5/8"	3/4"		7/8"	

(1) This option is compulsory if the total refrigerant charge exceeds 4.5 kg

ELECTRICAL CHARACTERISTICS

CONDENCIAT CL2		28	35	50	65	75	
Compressor	Unit nominal voltage	400 V - 3 Ph - 50 Hz					
	Max. intensity	A	6.9	7.6	10.3	11.2	14.3
Fans	Max. intensity	A	0.46	0.97	0.92	1.94	1.94
Nominal voltage of unit		V	400 V - 3 Ph + N - 50 Hz				
Intensity	A	7.5	8.3	11.3	12.6	15.7	
Starting intensity	A	36	49	65.5	75.5	102.5	
Electrical cables not supplied *	mm ²	5G1.5	5G2.5	5G4	5G4	5G6	
Proximity switch recommended rating	Am	10	10	16	16	20	

* cable with 2 or 3 conductors in a raceway or exposed mounting, for temperatures below 60°C, 30 m max. length

Note: For other conditions, refer to the norm applied in the country of installation (example for France: NFC 15.100)

SOUND PRESSURE LEVELS **

CL2	28	35	50	65	75
Acoustic pressure dB(A)	39	45	43	47	47

** at 5 m from the unit, 1.5 m from the ground, free field, directivity 2.



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