

ENERGY OPTIMISATION

AUTONOMOUS SYSTEM

# AIR SOLUTIONS

Compact and split system solutions from 7 to 275 kW

AUTONOMOUS  
COMFORT SOLUTIONS



COMFORT • AIR QUALITY

# The CIAT Group

Established in 1934, CIAT has been constantly developing its expertise in heating, cooling and indoor air quality to achieve its current position as one of the European leaders. With 6 industrial production plants around the world and an international sales network of subsidiaries and approved distributors in over 70 countries, CIAT's strategy is to be as close to its markets as possible.



*Culoz - France, CIAT's main industrial site*

Our expertise is a reference across all sectors of our activity. CIAT offers advice, after-sales services and training adapted to professionals with a view to helping them optimise the services they provide around the Group's products.

Now CIAT has realised its international vocation: more than half the company's turnover is generated outside France. The R&I, marketing, logistics and commercial services departments based in Culoz in France at the centre of the largest and most important industrial site, work in close collaboration with all the Group's companies.



*Montilla Cordoba Spain  
Industrial site for Air-Air units*

CIAT chillers and heat pumps are designed and manufactured at our European sites in ultra-modern industrial plants, thereby benefiting from all the Group's industrial resources.

Nearly 70,000 m<sup>2</sup> are completely dedicated to this activity, the company's real "core business".



*CIAT R&I Centre  
test bed*



*CIAT R&I Centre  
comfort test bed*



*Automatic folding  
system  
Montilla industrial site*

# CIAT Air Solutions

## for new and renovated buildings

	bars and restaurants	city centre shops	boutiques in shopping centres	bank branches	commercial business parks	supermarkets (small and medium-sized outlets)	hypermarkets (large outlets)	airport logistics platforms air terminals	workshops (small, medium-sized or large units)
<b>AirDuo Compact</b>	●	●	○	●	○	●	—	—	○
AirDuo Nexia	●	●	○	○	●	●	○	—	○
<b>AirDuo</b>	●	—	●	○	●	●	○	○	●
HCompact2	●	●	○	●	○	●	—	—	●
<b>VCompact</b>	●	●	○	○	○	●	○	—	●
XH	—	—	●	○	—	—	—	—	—
<b>Neptus</b>	—	—	●	○	—	—	—	—	—
Roof top	○	—	○	—	○	●	●	●	●

● Optimal solution    ○ Suitable solution    — Consult us.

## Supervision system

### PlantVisorPRO 2

The central management of installations results in significant savings in terms of maintenance and operating costs.

PlantVisorPRO 2 features tools which enable you to control the main operating parameters and to manage the energy consumption of several installations from a single workstation.



# → AIR-TO-AIR PACKAGED SYSTEMS



**HCompact2**  
**Horizontal Unit**  
**RHA** ❄️ 🌀 🌀  
**IHA** 🔥 🌀 🌀  
 1,200 to 7,000 m<sup>3</sup>/h  
 7 to 36 kW



**VCompact**  
**Vertical Unit**  
**RN** ❄️ IN 🔥 🌀  
**RNE** ❄️ INE 🔥 🌀 🌀  
 2,500 to 14,000 m<sup>3</sup>/h  
 12 to 73 kW



**Roof-top Space**  
**RPF** ❄️ IPF 🔥 🌀 🌀 🌀 🌀  
 4,000 to 46,000 m<sup>3</sup>/h  
 23 to 281 kW

**Roof-top Space**  
**with gas integrated**  
**RPG** ❄️ IPG 🔥 🌀 🌀 🌀  
 12,000 to 24,000 m<sup>3</sup>/h  
 59 to 136 kW



## EQUIPMENT AND VERSIONS AVAILABLE

- ❄️ COOLING ONLY VERSION
- 🔥 REVERSIBLE VERSION
- 🌡️ HEAT RECOVERY

- 🌀 DEHUMIDIFICATION
- 🌀 AIR FREE COOLING

- 🌀 SCROLL COMPRESSOR
- 🌀 AIR FILTRATION

# AIR-TO-AIR SPLIT SYSTEMS

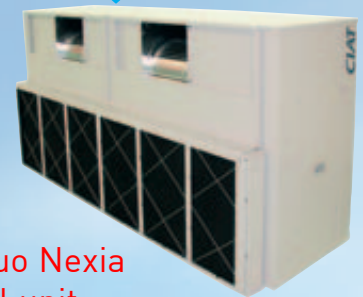
**Air Duo**  
Outdoor axial unit  
RSK ❄️ ISK 🌞 🌬️  
21 to 135 kW



**Air Duo/Air Duo Nexia**  
Indoor horizontal unit  
RCK ❄️ ICK 🌞 🌬️  
4,000 to 24,000 m<sup>3</sup>/h  
up to 350 Pa



**Air Duo/Air Duo Nexia**  
Indoor vertical unit  
RCP ❄️ ICP 🌞 🌬️  
4,000 to 18,200 m<sup>3</sup>/h  
up to 600 Pa



**Air Duo Nexia**  
Outdoor centrifugal unit  
(indoor installation)  
RSP ❄️ ISP 🌞 🌬️  
20 to 116 kW



**Air Duo Compact**  
Outdoor centrifugal unit  
(indoor installation)  
RST ❄️ IST 🌞 🌬️  
20 to 36 kW



**Air Duo Compact**  
Indoor centrifugal unit  
RCT ❄️ ICT 🌞  
4,000 to 7,000 m<sup>3</sup>/h  
up to 350 Pa



For outdoor unit AirDuo or AirDuo Nexia, please consult us.

# → WATER-TO-AIR HEAT PUMPS



**XH Horizontal Unit**  
 RXH ❄️ IXH ❄️  
 1,300 to 7,000 m<sup>3</sup>/h  
 7 to 41 kW



**Neptus XP Vertical Unit**  
 RXP ❄️ IXP ❄️ ❄️ ❄️ ❄️ ❄️ ❄️  
 4,700 to 17,000 m<sup>3</sup>/h  
 25 to 92 kW



**Roof-top Space Aqua**  
 RXF ❄️ IXF ❄️ ❄️ ❄️ ❄️ ❄️ ❄️  
 18,000 to 30,000 m<sup>3</sup>/h  
 107 to 183 kW

# → POOL DEHUMIDIFICATION



**BCP Junior**  
 ❄️ ❄️ ❄️ ❄️ ❄️ ❄️  
 4 to 15 kg/h  
 1,200 to 4,600 m<sup>3</sup>/h



**BCP Aquair**  
 ❄️ ❄️ ❄️ ❄️ ❄️ ❄️ ❄️  
 22 to 74 kg/h  
 5,500 to 16,000 m<sup>3</sup>/h



**BCP Air Master**  
 ❄️ ❄️ ❄️ ❄️ ❄️ ❄️  
 67 to 127 kg/h  
 16,000 to 30,000 m<sup>3</sup>/h

## AIR-TO-AIR SPLIT SYSTEM

## AIR-TO-AIR SINGLE UNIT

SK AXIAL AIR DUO OUTDOOR UNIT						
Size	Power R410A (kW)		Dimensions (mm)			Weight (kg)
	Cc	Hc	length	width	height	
90	20.8	22.6	1511	1066	1088	275
100	23.1	25.4	1511	1066	1088	281
120	27.3	30.9	1511	1066	1413	317
160	36.2	40.2	1511	1066	1413	326
180	38.7	44.3	1511	1066	1413	368
182	41.1	46.4	1511	1066	1413	388
200	48	54.8	1811	1066	1763	490
240	53.4	62	1811	1066	1763	492
320	71.8	80.1	1811	1066	2063	544
360	83.5	94.2	2201	2069	1966	974
420	103.1	107.5	2201	2069	1966	1024
485	111.1	117.8	2201	2069	1966	1029
540	125.4	130.4	2201	2069	1966	1078
600	137.5	142.3	2201	2069	1966	1127

HCOMPACT 2 HORIZONTAL UNIT							
Size	Air flow rate (m³/h)	Power R410A(kW)		Dimensions (mm)			Weight (kg)
		Cc	Hc	length	width	height	
35	1200	7	8.7	1275	1025	538	200
45/45M	2000	9.4	10.7	1275	1025	538	203
55	2500	12.6	14	1465	1165	578	242
65	3100	15.4	16.8	1465	1165	578	252
80	4000	20.3	21	1805	1505	704	331
90	4600	21.7	22.9	1805	1505	704	357
120	6000	27.4	30.2	2414	1920	829	545
160	7000	36.3	40.5	2414	1920	829	568

Cc. Cooling capacity (UNE EN 14511) indoor air 27°C (19°C WB) outdoor air 35°C  
 Hc. Heating capacity (UNE EN 14511) indoor air 20°C outdoor air 6°C WB

SP CENTRIFUGAL AIR DUO NEXIA OUTDOOR UNIT						
Size	Power R410A (kW)		Dimensions (mm)			Weight (kg)
	Cc	Hc	length	width	height	
90	19.8	21.2	1191	860	1437	300
100	23.3	25.2	1191	860	1437	315
120	27	28.6	1471	860	1717	364
160	37	37.5	1471	860	1717	378
182	39.5	42	1471	860	1717	383
200	47.4	51.4	2186	860	1437	588
240	54.1	58.2	2746	860	1717	760
280	65.6	67.4	2746	860	1717	775
320	73.8	76.8	2746	860	1717	788
360	81.8	83.5	2746	860	1717	798
420	104.3	101.7	3484	860	1717	832
485	115.8	116	3484	860	1717	873

VCOMPACT VERTICAL UNIT							
Size	Air flow rate (m³/h)	Power R407C (kW)		Dimensions (mm)			Weight (N-NE) (kg)
		Cc	Hc	length	width	height	
50	2500	11.6	11.7	974	684	1542	258
65	3100	15	15.4	974	684	1542	281
80/80	4000	18.9/17.9	19.4/18.4	1174	885	1840	359/410
95/90	4600	22.1/19.3	22.9/20.2	1174	885	1840	405/417
120/120	6000	28.6/28.6	29.6/27.8	1440	934	2015	488/504
155/160	7000	36.3/34.8	37.6/36.5	1440	934	2015	533/558
195/180	9200	44.2/38.6	45.8/40.4	2161	885	1840	707/755
255/240	12000	57.2/53.6	59.2/55.6	2704	934	2015	884/956
315/320	14000	72.6/69.6	75.2/73.0	2704	934	2015	988/1088

Cc. Cooling capacity (UNE EN 14511) indoor air 27°C (50% RH) outdoor air 35°C  
 Hc. Heating capacity (UNE EN 14511) indoor air 21°C outdoor air 6°C WB

CK AIR DUO/AIR DUO NEXIA HORIZONTAL INDOOR UNIT							
Size	Air flow rate (m³/h)	Compatible outdoor unit		Dimensions (mm)			Weight (kg)
		SK	SP	length	width	height	
90	4000	90	90	1190	950	731	147
100	4600	100	100	1190	950	731	147
120	5200	120	120	1190	950	731	190
160	7000	160	160	1520	1028	731	199
180	7000	180	-	1520	1028	731	199
182	8000	182	182	2144	950	731	262
200	9200	200	200	2144	950	731	262
240	10300	240	240	2144	950	731	262
280	12500	-	280	2804	1028	800	368
320	14000	320	320	2804	1028	800	368
360	15500	360	360	2804	1028	800	368
420	18000	420	420	2853	2160	1524	920
485	18200	485	485	2853	2160	1524	920
540	20400	540	-	2853	2160	1524	963
600	24000	600	-	2853	2160	1524	964

ROOFTOP							
SPACE PF							
Size	Air flow rate (m³/h)	Power R410A (kW)		Dimensions (mm)			Weight (kg)
		Cc	Hc	length	width	height	
90	4000	23.1	23	2400	1400	1497	508
120	6000	31.7	30.9	2400	1400	1497	547
160	8700	40.3	38.8	2400	1400	1675	599
180	9000	45.1	45.7	2400	1400	1675	647
240	12000	60.8	61.4	2750	2115	1705	884
320	14300	75.6	78.4	2750	2115	1705	966
360	15900	86.1	91.6	2750	2115	2005	1095
415	18000	92	98.9	3326	2205	2095	1541
420	18000	104.4	105.1	4816	2205	1795	1788
480	18200	108	107.6	3326	2205	2095	1581
485	18200	112.6	114.6	4816	2205	1795	1830
540	20400	126.2	128.7	4816	2205	1795	1879
600	24000	137.5	140.2	4816	2205	1795	1937
650	27500	152.1	158.9	4816	2205	2095	2093
720	30000	168.7	177.1	4816	2205	2095	2152
840	33000	199.9	207.7	4816	2205	2095	2277
960	37000	218.9	230.1	4816	2205	2095	2374
1100	42000	257.5	267.6	6316	2205	2095	3022
1200	46000	280.8	293.1	6316	2205	2095	3135

SPACE PG								
Size	Air flow rate (m³/h)	Power R410A (kW)		Max. gas P (kW)	Dimensions (mm)			Weight (kg)
		Cc	Hc		length	width	height	
241	12000	58.9	62.2	73	3326	2205	2095	1497
321	14300	72.1	76.7	73	3326	2205	2095	1581
361	15900	82.7	92.3	73	3326	2205	2095	1717
242	12000	60.3	62.2	197	3926	2205	2095	1723
322	14300	73.6	76.1	197	3926	2205	2095	1806
362	15900	84.8	91.6	197	3926	2205	2095	1942
420	18000	101.7	105.5	197	4816	2205	2095	2360
485	18200	110.3	115.5	197	4816	2205	2095	2402
540	20400	123.3	129	197	4816	2205	2095	2459
600	24000	135.5	143.4	197	4816	2205	2095	2512

Cc. Cooling capacity indoor air 27°C 50% RH outdoor air 35°C  
 Hc. Heating capacity indoor air 21°C outdoor air 6°C

CP AIR DUO/AIR DUO NEXIA VERTICAL INDOOR UNIT							
Size	Air flow rate (m³/h)	Compatible outdoor unit		Dimensions (mm)			Weight (kg)
		SK	SP	length	width	height	
90	4000	90	90	1141	859	1284	175
100	4600	100	100	1141	859	1284	175
120	5200	120	120	1141	859	1284	200
160	7000	160	160	1471	859	1422	250
182	8000	182	182	2091	859	1284	355
200	9200	200	200	2091	859	1284	355
240	10300	240	240	2091	859	1284	355
280	12500	-	280	2091	859	1284	355
320	14000	320	320	2731	859	1422	625
360	15500	360	360	2731	859	1422	625

WATER-TO-AIR heat pumps							
XH HORIZONTAL UNIT							
Size	Air flow rate (m³/h)	Power R407C kW		Dimensions (mm)			Weight (kg)
		Cc	Hc	length	width	height	
25	1300	6.9	8.2	1024	866	431	125
30	1500	7.7	9	1162	790	536	134
40/40M	2000	10.5	12.8	1162	790	536	152
50	2500	12.4	16	1408	946	587	209
65	3100	16	19.5	1408	946	587	217
80	4000	20.9	24.9	1825	1145	701	323
95	4600	25.2	29.1	1825	1445	701	371
120	6000	32.7	38.6	2457	1911	820	443
155	7000	41.3	48.4	2457	1911	820	484

Cc. Cooling capacity indoor air 27°C 50% outdoor water 30/35°C  
 Hc. Heating capacity indoor air 21°C outdoor water 16°C\*

AIR DUO COMPACT ST-CT							
Size	Air flow (m³/h) CT	ST outdoor unit		Dimensions (mm) ST-CT			Weight (kg) ST-CT
		Cc	Hc	length	width	height	
80	4000	19.5	22.1	1680/1500	915/870	670/639	224/125
90	4600	21.3	24.0	1680/1500	915/870	670/639	245/128
120	6000	27.5	31.8	2088/1831	1198/1103	810/706	322/171
160	7000	37.2	41.6	2088/1831	1198/1103	810/706	344/181

Cc. Cooling capacity (UNE EN 14511) indoor air 27°C (19°C WB) outdoor air 35°C  
 Hc. Heating capacity (UNE EN 14511) indoor air 20°C outdoor air 6°C WB

POOL DEHUMIDIFICATION							
BCP JUNIOR							
Size	Air flow rate (m³/h)	R407C		Dimensions (mm)			Weight (kg)
		P. Dehum.(kg/h)	Rec. Hc (kW)	length	width	height	
20	1200	3.9	-	1430	658	636	168
30	1500	5.1	-	1430	658	636	172
40	2100	7.1	6.6	1530	838	700	208
50	2600	8.7	8.2	1530	838	700	212
60	3200	10.7	10.1	1530	838	700	222
70	3700	12.6	11.8	1082	680	2143	300
80	4300	14.3	13.5	1082	680	2143	302
90	4600	15.2	14.3	1082	680	2143	329

NEPTUS XP VERTICAL UNIT							
Size	Air flow rate (m³/h)	Power R410A(kW)		Dimensions (mm)			Weight (kg)
		Cc	Hc	length	width	height	
90	4700	24.4	28.1	1141	859	1284	334
100	6100	28.6	33.2	1141	859	1284	337
120	6400	31.5	38.4	1141	859	1284	345
160	7300	40.7	47.3	1471	859	1422	453
182	8400	46.4	54.2	2091	859	1284	568
200	11800	57.4	67.1	2091	859	1284	604
240	12800	63.3	74.8	2091	859	1284	625
320	15000	84.4	97.6	2731	859	1422	719
360	17000	93.2	109	2731	859	1422	730

With over 80 years' experience, more than 2,000 employees, and 6 production sites including a vast industrial complex in the Rhône-Alpes region, CIAT has obtained ISO 14001 certification and is renowned as a major player in the HVAC industry.



## The CIAT Group: European leader in heating, cooling and indoor air quality



### An environmentally-responsible company working towards a greener world

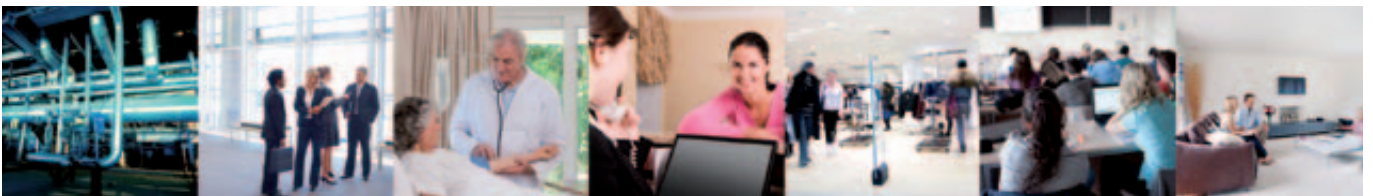
For many years, CIAT has been pursuing an industrial policy based on an ongoing strategy of continued sustainable development and eco-design in order to minimise the environmental impact of its equipment. The equipment integrated into Hysys system solutions benefits from this commitment.



### A Group resolutely focused on innovation

CIAT's Centre for Research and Innovation, one of the largest in Europe, brings engineers and technicians together around a simulation platform dedicated to well-being. As a team, they constantly improve the comfort, IndoorAir Quality and energy performance levels of CIAT solutions to meet the requirements of consumer sectors.

### An exclusive network of advisers



Industry

Offices

Healthcare

Hotels

Shopping Centres

Administration Education

Residential

To ensure customer satisfaction, at CIAT we have organised our teams into seven centres of expertise. Operating in France and throughout Europe, our experts listen to your needs and, because they speak your language, they provide you with the best solution to meet your requirements.



www.ci.at.com