

## CIAT - SPACE Packaged unit

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#### **Features**

- High efficiency cooling circuits for R410A with electronic expansion valves and scroll compressor.
- Electronic axial fans for low noise level.
- Multiple recovery options on the extracted air energy.
- Heating back-up options: electric heaters, hot water coil, gas burner or boiler.
- Plug-fans (free-wheel) with EC motors.
- Available as Cooling Only, Heat Pump, Heat Recovery models.



#### **Technical Data**

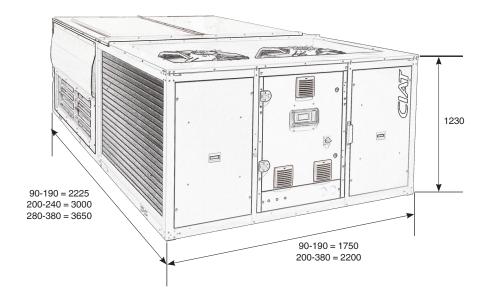
Space	IPJ	90	120	140	160	180	190	200	220	240	280	320	360	380
Cooling capacity	kW	22.5	28.3	34.7	38.6	42.9	45.5	53.1	57.7	60.3	67.7	71.3	80.2	90.0
Power input	kW	7.3	9.4	11.0	12.6	14.2	15.1	17.2	19.1	20.1	21.9	23.4	26.4	29.9
Eer		3.10	3.01	3.16	3.06	3.01	3.01	3.09	3.03	3.01	3.09	3.05	3.04	3.01
Heating capcaity	kW	22.0	28.1	33.7	38.2	42.4	45.3	51.5	56.7	59.5	67.9	72.2	80.8	90.9
Power input	kW	6.0	8.0	9.6	10.9	12.3	13.3	15.0	16.6	17.4	19.5	20.9	23.6	26.7
Сор		3.67	3.50	3.53	3.50	3.44	3.41	3.44	3.42	3.41	3.49	3.45	3.43	3.41
Outdoor circuit fan air flow	m³/h	9.0	14.5	17.0	17.0	17.0	17.8	31.0	31.0	31.0	33.0	33.0	34.5	35.0
Available static pressure	Pa	49	49	49	49	49	49	49	49	49	49	49	49	49
Indoor circuit supply fan air flow	m³/h	5.1	6.5	8.7	9.25	9.45	9.45	12	12.5	12.5	16	16	16.5	16.5
Available static pressure	Pa	117	117	117	147	147	147	196	196	196	196	196	245	245
Power supply	V/ph/Hz	415/3/	50											
Maximum absorbed current	Α	18.5	26.5	30.5	33.5	37.5	38.0	44.3	49.9	50.1	50.2	53.7	62.3	67.5
Refrigerant charge	kg	6.7	7.0	11.0	11.0	11.5	11.5	12.5	12.5	13.0	19.5	19.5	20.0	20.0
Weight	kg	585	610	675	680	685	690	990	995	1040	1155	1160	1165	1170
Sound power level	dB(A)	71	80	80	84	85	85	85	85	85	85	85	86	86

Cooling capacity in accordance with EN-14511-2013 for indoor temperature conditions 27°C,19°C WB and 35°C outdoor temperature.

Heating capacity in accordance with EN-14511-2013 for indoor temperature conditions  $20^{\circ}\text{C}$  and  $6^{\circ}\text{C}$  WB outdoor temperature.

Total power input by compressor and motorised fans under nominal conditions in accordance with EN-14511-2013.

#### **Dimensional Drawings**











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#### Packaged unit options and accessories

Family	Description	In factory	On site
Electrical power	400 V/3 ph/50 Hz (without neutral)	1	
Flow and assembly	CS: Cross flow with 2 dampers	/	
	CK: Cross flow with 3 dampers	/	
	CA: Cross flow with axial return fan	/	
	CP: Cross flow with lower return plug-fan	/	
	CQ: Cross flow with upper return plug-fan	/	
	CW: Cross flow with passive recovery	/	
	TS: Tunnel flow with 2 dampers (for models 0200 to 0380)		
	TP: Tunnel flow with return plug-fan (for models 0200 to 0380)	1	
	TW: Tunnel flow with passive recovery (for models 0200 to 0380)	1	
Coil coating	Coil with copper pipes and copper fins		
	Coil with copper pipes and fins of an aluminium alloy (INERA®)	/	
	Coil with copper pipes and aluminium fins with polyurethane coating	/	
	Coil with copper pipes and aluminium fins with Blygold® coating	/	
Heating	Auxiliary hot water coil: standard or great cold		_/
	Auxiliary electrical heaters		-/
	Natural or propane gas burner (The gas burner is supplied installed into a pre-assembly roofcurb)	<b>✓</b>	-/
	Gas boiler and auxiliary hot water coil		· ·
Protection low temperature	Antifreeze protection kit for low temperature (<-10°C)	/	
Protection tow temperature	Antifreeze protection kit for low temperature (<-14°C)	/	
I. d f	High available pressure of the indoor fan		
Indoor fan	Low available pressure of the indoor fan	1	
Air Clearting and atom days			-
Air filtration and stop-drop	Stop-drop in the indoor air coil	/	· /
	Gravimetric filters G4 with low pressure drop	<b>/</b>	/
	Gravimetric filters G4 + folded opacimetric filters M6, F7 or F9	<b>✓</b>	/
	Gravimetric filters G4 low pressure drop + folded opacimetric filters F7 or F9	<b>/</b>	/
0.11	Double stage of folded opacimetric filters (M6+F7, M6+F9, F7+F9 or F9+F9)	/	/
Outdoor fan	Axial 2-speed outdoor fan(s) directly coupled to the motor	/	
nsulation	Ceramic fibre for thermal and acoustic insulation, Euroclass A2-s1, d0 (M0)	/	
Indoor unit	Condensate drain pan in stainless steel	/	/
	Management of the overpressure	/	
	Differential pressostat for the detection of clogged filters	/	/
Outdoor unit	Outdoor coil protective grille	/	/
	Stop-drop at the fresh air intake	/	/
	Anti-vibration mounts made of rubber	/	/
Passive recovery	Rotary heat exchanger with CW assembly	1	
	Rotary heat exchanger with TW assembly	/	
Probes	Ambient temperature probe: one NTC probe connected to the control board or one to four probes with	/	1
	RS485 communication		
	Ambient temperatute and humidity probe: one to four probes with RS485 communication	/	/
	CO, air quality probe environment installed, duct-mounted or installed on a pLAN local network	1	1
	Smoke detecting station in accordance with the NF S 61-961 standard	1	1
Free-cooling and outdoor humidity	Type of free-cooling: thermal, enthalpic or thermoenthalpic	/	1
	Outdoor air humidity probe: supplied with the unit or installed on a pLAN local network	/	1
Terminal and unit communication	User terminal installed on the electric panel	/	1
	User terminal installed on the electric panel + graphic terminal remote up to 50 m or 200 m	/	-/
	User terminal installed on the electric panel + graphic terminal remote up to 200 m	/	1
	Unit configuration: stand-alone, master or slave	/	
	Communication cards: RS485 Modbus/Carel; Ethernet PCoWeb; RS485 LonWorks®; Ethernet BACnetTM;	/	/
	RS485 BACnetTM; RS485 Konnex		•
Miscellaneous item 1	Management of an humidifier with proportional or on/off control	/	,
miscettaneous item I	Energy meter		/
		/	- /
Miscellaneous item 2	Energy meter and calculation of the cooling and heating capacities	<b>/</b>	V .
MISCELLATIEOUS ILEITI Z	Compressor soft starter	<b>/</b>	/
	Tropicalised components on the electric panel: control board, cards and terminals	<b>✓</b>	1
	High performance phase monitoring relay	<b>√</b>	
	High performance magnetothermic switches	/	1
Roofcurb	Standardised pre-assembly roofcurbs with adjustable height (cross flow)		

**Cool Designs Ltd** 



