

LAAC(H)S 20÷120

Cooling capacity: 19.9÷122 kW

Heating capacity: 23.1÷136.3 kW



FEATURES

- 12 sizes available ranging from 19.9 kW to 122 kW cooling capacity.
- Cooling only and heat pump version.
- Wide application as hotel, apartment, villa, factory, shopping center, office building, school, gymnasium etc.
- Panels and frame are made from galvanized steel protected with polyester powder painting to ensure total resistance to atmospheric agents.
- High efficiency scroll compressor for the whole range, with built-in thermal overload cut-out and crankcase heater, mounted on rubber vibration dampers.
- Compact indoor design, long air supply distance.
- Outdoor units are equipped with low noise axial fans.
- Indoor units are equipped with quiet centrifugal fans.
- Split installation, connected by means of flare/welding coupling.
- Easy operation line controller:
 - Cooling/Heating/Fan/Auto
 - Error indication
 - Timing On/Off
- Multi safety protection
 - High/low pressure protection
 - Overheat protection
 - Current overload protection
 - Phase sequence relay
 - Time delay and antifreeze switch

OPTIONAL

- Additional electric heater on indoor unit
- Additional heating coil on indoor unit

NOMENCLATURE

C AA H C S 20 W
① ② ③ ④ ⑤ ⑥ ⑦

- ① **C: Cardiff**
- ② Unit type
- AA: Air to Air**
- AW: Air to Water**
- WA: Water to Air**
- WW: Water to Water**

- ③ **C: Cooling only**
H: Heat pump
- ④ Refrigerant type
 - : R22
 - A: R410a**
 - B: R134a**
 - C: R407c**
- ⑤ Type of unit
 - P: Packaged type**
 - S: Split type(Ducted split)**

- ⑥ Model
- ⑦ Unit Name:
 - W: Outdoor unit**
 - N: Indoor unit**
 - WN: The Whole unit**

TECHNICAL DATA

Mod. CAAHS		20	25	32	36	42	48
Nominal cooling capacity*	kW	19.9	25.3	31.8	36.3	42.1	48.3
Nominal heating capacity**	kW	23.1	29.5	36.5	41.6	47.8	55.5
Connection Method	/	Flare	Flare	Flare	Welding	Welding	Welding
Liquid pipe diameter	∅ mm	9.52x2	12.7x2	12.7x2	15.88x1	15.88/12.7	15.88/12.7
Gas pipe diameter	∅ mm	15.88x2	19.05x2	19.05x2	28x1	28/19.05	28/19.05
Compressor							
Qty/circuit nr.	Nr.	2/2	2/2	2/2	1/1	2/2	2/2
Cooling power input*	kW	7.13	9.21	11.68	12.67	14.95	17.72
Heating power input**	kW	7.06	9.12	11.56	12.54	14.80	17.54
Energy adjustment	%	50-100	50-100	50-100	0-100	40-60-100	33-66-100
Axial fans							
Quantity	Nr.	1	1	1	1	2	2
Airflow	m ³ /h	9400	9400	12500	14200	18800	18800
Sound pressure level***	dB(A)	67	67	68	70	71	71
Net weight	kg	170	180	220	230	260	280
Indoor Unit							
Centrifugal fans							
Quantity	Nr.	2	2	2	2	2	2
Air flow	m ³ /h	3500	4500	5650	6450	7400	8550
ESP	Pa	120	100	150	130	180	200
Sound pressure level***	dB(A)	64	64	66	66	68	68
Net weight	kg	90	100	150	160	180	200
Additional heating coil****	kW	22.2	28.4	35.1	40.0	46.0	53.3

Mod. CAAHS		52	62	72	88	104	120
Nominal cooling capacity*	kW	52.3	64.6	72.7	89.7	105.8	122.0
Nominal heating capacity**	kW	60.1	74.1	83.5	102.0	118.1	136.3
Connection Method	/	Welding	Welding	Welding	Welding	Welding	Welding
Liquid pipe diameter	∅ mm	15.88/12.7	15.88x2	15.88x2	15.88x2	19.05x2	19.05x2
Gas pipe diameter	∅ mm	28/19.05	28x2	28x2	28x2	35x2	35x2
Compressor							
Qty/circuit nr.	Nr.	2/2	2/2	2/2	2/2	2/2	2/2
Cooling power input*	kW	18.4	23.1	26.6	28.1	39.3	45.3
Heating power input**	kW	18.22	22.87	26.33	27.82	38.91	44.9
Energy adjustment	%	30-70-100	50-100	50-100	50-100	50-100	50-100
Axial fans							
Quantity	Nr.	2	2	2	2	2	2
Airflow	m ³ /h	21500	26500	29880	36500	43500	53800
Sound pressure level***	dB(A)	71	71	71	71	71	71
Net weight	kg	330	340	460	780	800	830
Indoor Unit							
Centrifugal fans							
Quantity	Nr.	2	2	2	2	2	2
Airflow	m ³ /h	9250	11450	12900	14800	17100	19700
ESP	Pa	200	300	300	280	500	500
Sound pressure level***	dB(A)	68	68	69	69	70	70
Net weight	kg	220	230	300	320	400	420
Additional heating coil****	kW	57.8	71.2	80.3	98	113.5	130.9

Performance values refer to the following conditions:

* Cooling capacity is measured under the condition: indoor temperature DB 27°C / WB 19°C, ambient temperature DB 35°C / WB 24°C.

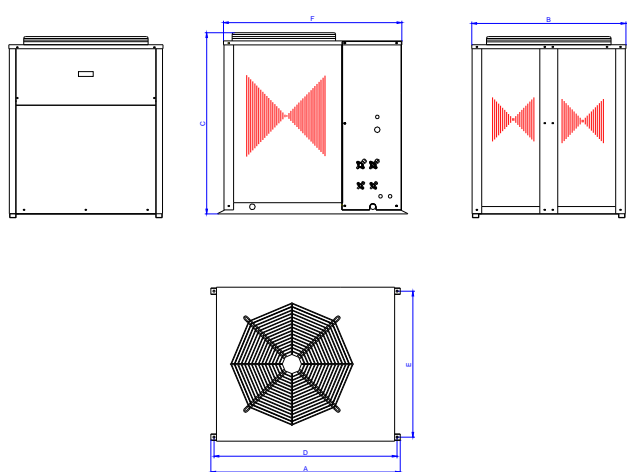
** Heating capacity is measured under the condition: indoor temperature DB 20°C / WB 15°C, ambient temperature DB 7°C / WB 6°C.

*** Sound pressure measured at a distance of 1 m and a height of 1.5 m above the ground in a dear field.

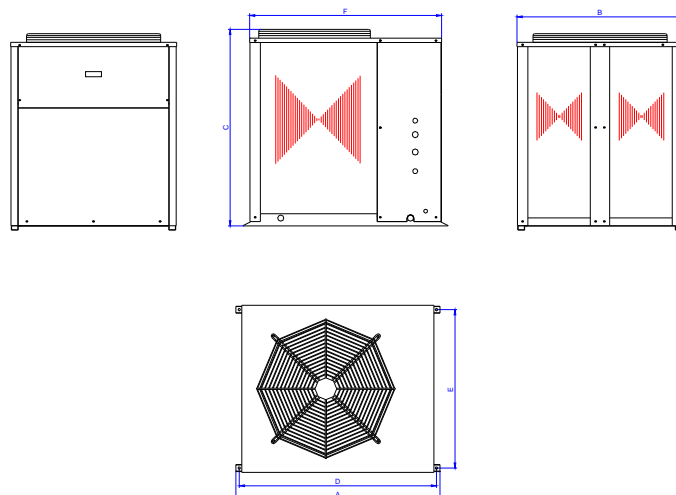
**** Optional as request.

OVERALL DIMENSIONS

CAAHS 20W ÷ 25W

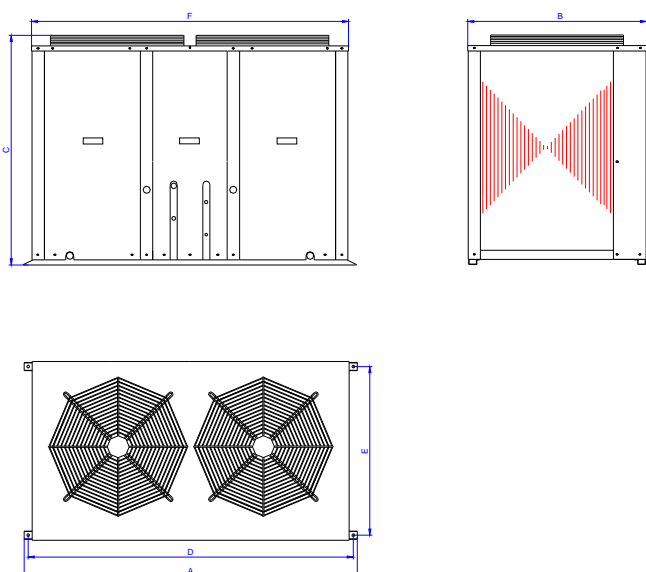


CAAHS 32W ÷ 36W

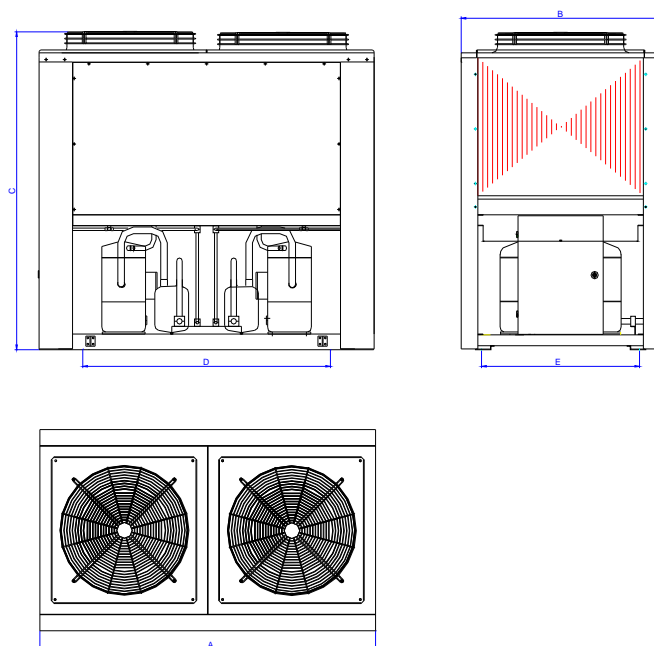


Mod.	A	B	C	D	E	F	Mod.	A	B	C	D	E	F
20W	1120	830	1030	1080	780	1050	32W	1180	960	1130	1140	910	1110
25W	1120	830	1030	1080	780	1050	36W	1180	960	1130	1140	910	1110

CAAHS 42W ÷ 72W



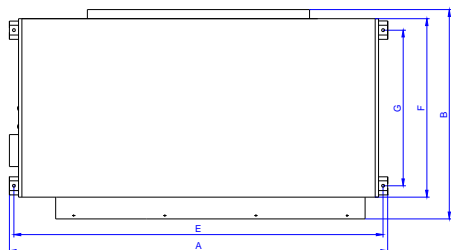
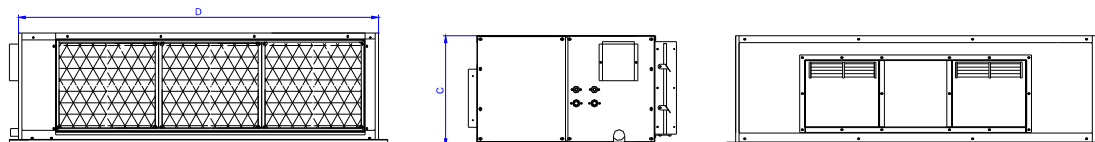
CAAHS 88W ÷ 120W



Mod.	A	B	C	D	E	F	Mod.	A	B	C	D	E	F
42W	1640	880	1130	1600	830	1560	72W	2120	970	1130	2080	920	2050
48W	1640	880	1130	1600	830	1560	88W	2165	1285	2030	1600	1020	2090
52W	1840	970	1130	1800	920	1760	104W	2165	1285	2105	1600	1020	2090
62W	1840	970	1130	1800	920	1760	120W	2165	1300	2105	1600	1020	2090

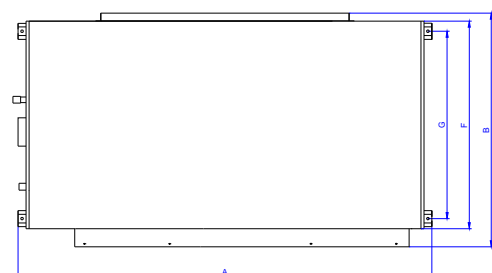
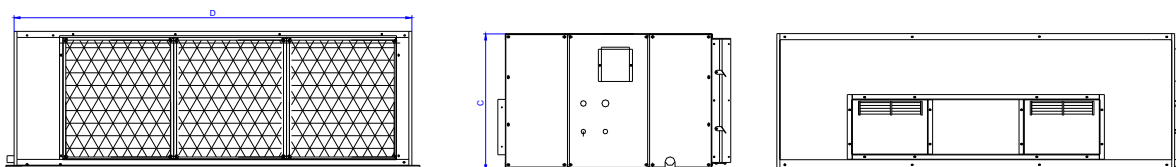
OVERALL DIMENSIONS

CAAHS20N ÷ 32N



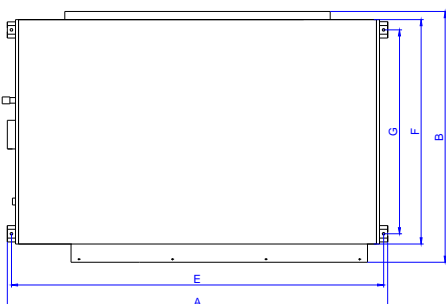
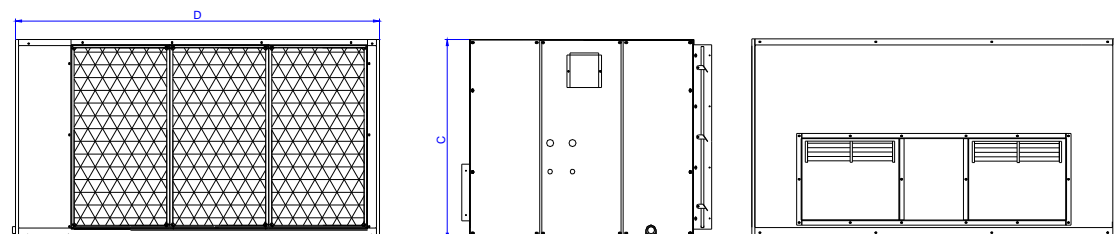
Mod.	A	B	C	D	E	F	G
20N	1660	915	480	1580	1620	780	680
25N	1660	915	480	1580	1620	780	680
32N	1660	915	580	1580	1620	780	680

CAAHS36N ÷ 52N



Mod.	A	B	C	D	E	F	G
36N	1790	915	580	1710	1750	780	680
42N	1840	1040	680	1760	1800	910	810
48N	2065	1160	680	1985	2025	1030	930
52N	2165	1160	680	2085	2125	1030	930

CAAHS62N ÷ 120N



Mod.	A	B	C	D	E	F	G
62N	1870	1230	980	1790	1830	1100	1000
72N	1870	1230	1080	1790	1830	1100	1000
88N	2100	1270	1180	2020	2060	1140	1040
104N	2100	1270	1280	2020	2060	1140	1040
120N	2100	1270	1280	2020	2060	1140	1040