

Rooftop Package Unit Catalog

8 kW to 500 kW





“Efficiency is possible
with the quality of equipment and service.
Whereas the highest efficiency
depends on your habit of usage”

ACS Klima



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Introduction



Rooftop units are one of the biggest and important production segment of the HVAC industry because of packaged type all-inclusive design, easy of installation, low cost, flexible application.

RTACS series rooftop unit are designed to meet the demands of heating or cooling of places such as cinema, shopping malls, restaurants, markets, e.t.c.

Controlling and conditioning air by the high technology control panel that is standard equipment of rooftop units. Rooftop units can be controlled any place with microprocessor and connect to building management systems.

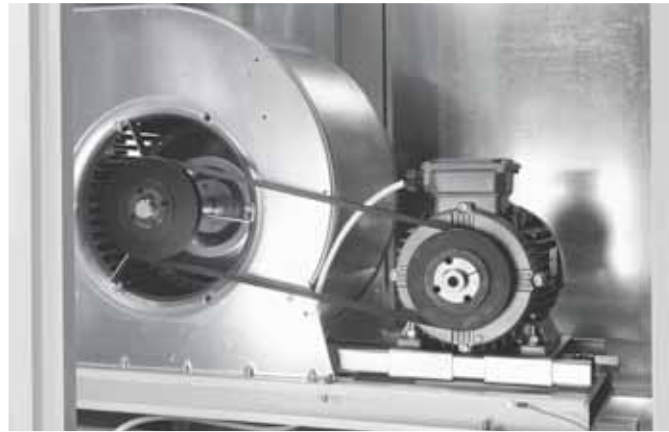
Available in 27 main and 340 intermediate different models from 8 kw to 500 Kw cooling capacity. RATCS units are designed to operate in a wide ambient temperature range from 5 °C to 56 °C.



Manufacturer may change in dimensions on production process regarding to custom made design
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Features and Benefits

- Frame with composed of specially rolled steel profiles.
- Panels with double layer sheets and insulation [optional polyurethane or rockwool insulation material and insulation thickness]
- Cabinet with 50 mm rockwool insulated panels. Interior surfaces of the profiles are designed be smooth and free of recess and protrusion.
- The outer surface of the panels is composed of electrostatic painted galvanized sheets.
- Special extruded rubber gaskets with air cushion used to avoid possible air leakage caused by the pressure difference.



- Made in Italy. NICOTRA-GEBHARDT fans are statically and dynamically balanced.
- For lower unit height, optional tandem fan configuration.
- Single speed, IP55 protection, F insulation, IC411(TEFC), IE2 efficiency class electric motors [optional IE3 high efficiency electric motors]



- The units are equipped with emergency stop button and safety switch will stop the operation in case of the access door is open. efficiency class electric motors [optional IE3 high efficiency electric motors]



- Standardly G-4 panel filter with 48 mm thickness and optional depending on requirements various types of filters like V-type or bag filter can use in the unit.

Features and Benefits



- Evaporator and condenser coils, composed of either copper tube and aluminium fins [optional epoxy coated aluminium fins], tested under pressure 40 bar.
- Coils are installed on the studs arranged in a way to enable easy access and maintenance. Coils are equipped standardly with a stainless steel double sloped drain pan, drainage siphon and a specially formed drop eliminator for condensing water.



- Axial type statically and dynamically balanced, made in EUROPE condenser fans, high efficiency designed, pressed-on round sheet steel plate blades. Protected by steel guard grille fan blades and single speed, IP55 protection, F insulation motor.

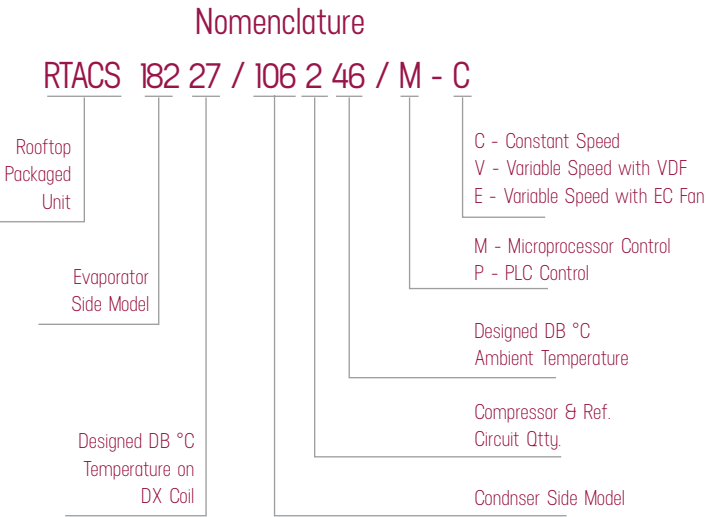


- HMade in Europe. High efficiency scroll compressors with reduced noise and vibration and selected according to cooling capacity air flow requirements of area.
- Independent cooling circuits for bigger then 25 kw cooling capacity.
- Equipments of each cooling circuits including: expansion valve, receiver, solenoid valve, dryer, liquid valve, refrigerant filter, high and low pressure switches.
- Charged with R407C refrigerant.
- All copper pipes are painted after bending and welding to being cleaned for protected from external conditions.

Features Table

Evaporator Side		S: Standard Features - O: Optional Features	
Casing		S	O
Insulation	30 mm. Polyurethane	☐	☒
	50 mm. Rockwool	☒	☐
	50 mm. Polyurethane	☐	☒
Inner Sheet	Galvanized Steel	☒	☐
	304K Stainless Steel	☐	☒
	306K Stainless Steel	☐	☒
Outer Sheet	Electrostatic Powder Painted Galvanized Steel	☒	☐
	304K Stainless Steel	☐	☒
	306K Stainless Steel	☐	☒
Color	RAL 9002	☒	☐
Vibration Isolator	Rubber	☒	☐
	Spring	☐	☒
Fan Type	Radial Double Inlet	☒	☐
	Plug	☐	☒
Motor Type	IP 55 TEFC Class F IE2	☒	☐
	IP 55 TEFC Class F IE3	☐	☒
Motor Speed	Constant	☒	☐
	Variable	☐	☒
Filter	Pre Filter EU4 Panel	☒	☐
	Bag Filter	☐	☒
	Compact Filter	☐	☒
Coil	Copper Tubes Aluminium Fins	☒	☐
	Copper Tubes Epoxy Coated Aluminium Fins	☐	☒

Condenser Side		S: Standard Features - O: Optional Features	
		S	O
Compressor	Scroll	☒	☐
Refrigerant	R407C	☒	☐
	R410A	☐	☒
Cooling Equipment	High Pressure Switch	☒	☐
	Low Pressure Switch	☒	☐
	Receiver Tank	☒	☐
	Dryer	☒	☐
	Solenoid Valve	☒	☐
	Sight Glass	☒	☐
	Return Gas Filter	☒	☐
	Expansion Valve	☒	☐
Coil	Copper Tubes Aluminium Fins	☐	☒
	Copper Tubes Epoxy Coated Aluminium Fins	☒	☐
Drain Pan	304K Stainless Steel	☒	☐
Fan Type	Axial	☒	☐
Motor Type	Direct Drive IP 54 Class F	☒	☐
	IP 65 Control Panel Box	☒	☐
Electric	Main Circuit Breaker	☒	☐
	Start-Up Relay	☒	☐
	Compressor Contactor	☒	☐
	Condenser Fan Contactor	☒	☐
	Compressor Circuit Braker	☒	☐
	Condenser Fan Circuit Braker	☒	☐
	Phase Protection Relay	☒	☐
	Circuit Breakers Relay	☒	☐
	Power Supply	☒	☐
	Transverse Aux. Switch For Circuits Breakers	☒	☐
	Power Plug	☒	☐
	Panel Ventilation	☒	☐
Automatic Control	Microprocessor	☒	☐
	Filter Pressure Switch	☒	☐
	Fan Pressure Switch	☒	☐
	Inlet Air Temperature	☒	☐
	Supply Air Temperature	☒	☐
	Fresh Air Temperature	☒	☐
	Cond.Fan Differential Pressure Transmitter	☒	☐
	Web Interface	☐	☒
Accessories	Fan Flexible Connection	☒	☐
	Door Safety Switch	☒	☐
	Emergency Stop	☒	☐
	Bulkhead Light	☐	☒
	Observation Window	☐	☒
	Drainage Siphon	☒	☐



Technical Data Sheets



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RTACS SERIES		RTACS 7127			RTACS 7227			RTACS 9127		
ACU MODEL		40135	40146	40152	72135	72146	72152	94135	94146	94152
Ambient Temperature	°C	35	46	52	35	46	52	35	46	52
	°F	95	115	126	95	115	126	95	115	126
Air Inlet Temperature DB	°C		27			27			27	
	°F		80.6			80.6			80.6	
Air Inlet Temperature WB	°C		19.5			19.5			19.5	
	°F		67.1			67.1			67.1	
EVAPORATOR SIDE										
Total Cooling Capacity	kw	10	8.58	7.73	17.9	15.5	14.2	24.9	21.5	19.2
	TR	2.85	2.44	2.20	5.09	4.41	4.04	7.08	6.12	5.46
Sensible Cooling Capacity	kw		5.47			9.96			13.86	
			1.56			2.83			3.94	
Air Volume	m³/h		1400			2.550			3.550	
	cmf		828			1.509			2.101	
ESP	Pa		220			320			250	
Fan Type			Centrifugal			Centrifugal			Centrifugal	
Motor Power	kw		0.37			0.75			1.10	
Motor Speed	rpm		1500			1500			1500	
Face Velocity	m/s		1.21			1.83			2.29	
CONDENSER SIDE										
Air Volume	m³/h		4.900			9.000			14.000	
	cmf		2.899			5.325			8.284	
Type			AXIAL			AXIAL			AXIAL	
Quantity	qty		1			1			1	
Total Fan Power	kw		0.34			0.60			1.97	
COMPRESSOR										
Compressor Type			SCROLL			SCROLL			SCROLL	
Quantity	qty		1			1			1	
Voltage	V		415			415			415	
Total Power	kw	2.38	3.13	3.63	4.15	5.35	6.14	5.55	7.22	8.38
Number of Circuit	qty		1			1			1	
Unit Airborne Sound Level	dbA		63			67			68	
Total Power Input	kw	3.09	3.84	4.34	5.50	6.70	7.49	8.62	10.29	11.45
EER		3.24	2.23	1.78	3.25	2.31	1.90	2.89	2.09	1.68
Unit Dimension [LxWxH]	mm	1900	1000	1320	2100	1150	1520	2150	1250	1520
Weight	kg		428			523			597	

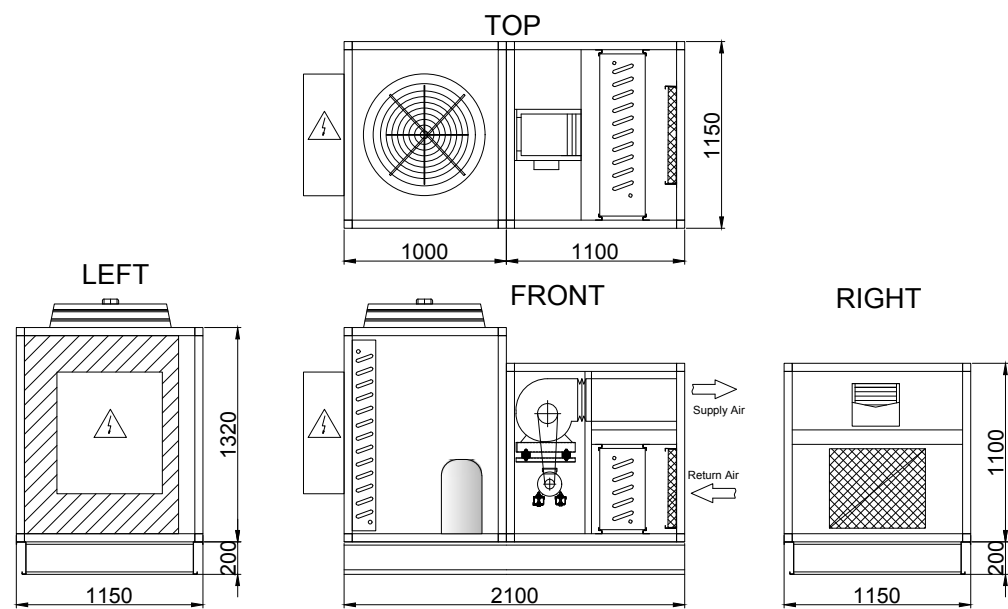
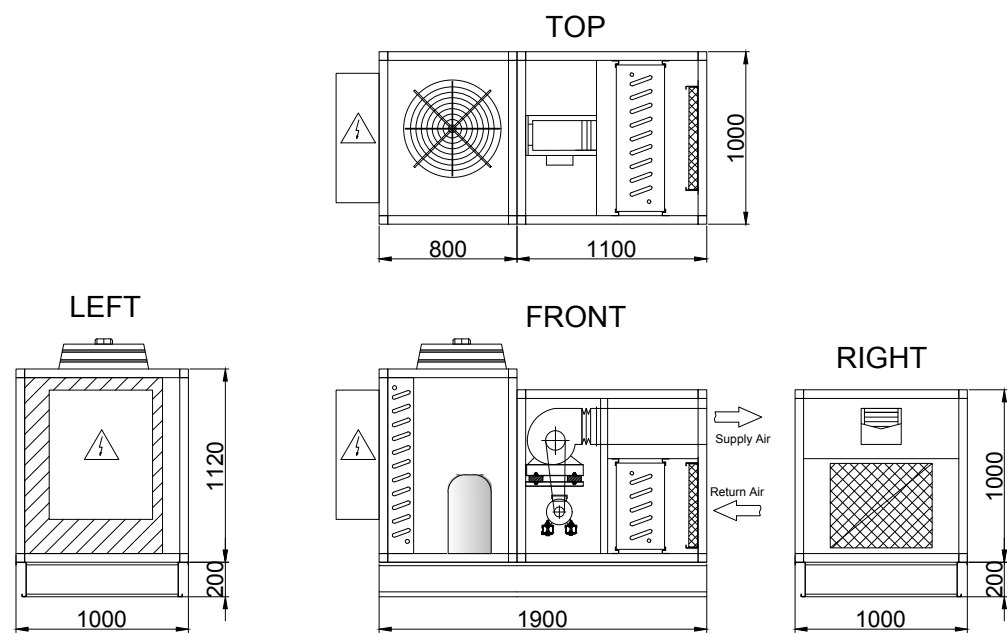
RTACS SERIES		RTACS 9227			RTACS 10127			RTACS 10227		
ACU MODEL		108135	108146	108152	125135	125146	125152	72235	72246	72252
Ambient Temperature	°C	35	46	52	35	46	52	35	46	52
	°F	95	115	126	95	115	126	95	115	126
Air Inlet Temperature DB	°C		27			27			27	
	°F		80.6			80.6			80.6	
Air Inlet Temperature WB	°C		19.5			19.5			19.5	
	°F		67.1			67.1			67.1	
EVAPORATOR SIDE										
Total Cooling Capacity	kw	27.9	24.1	21.9	32.6	28.2	25.5	35.8	31	28.4
	TR	7.94	6.86	6.23	9.27	8.02	7.25	10.19	8.82	8.08
Sensible Cooling Capacity	kw		15.62			18.16			20.11	
			4.44			5.17			5.72	
Air Volume	m³/h		4.000			4.650			5.150	
	cmf		2.367			2.751			3.047	
ESP	Pa		230			300			230	
Fan Type			Centrifugal			Centrifugal			Centrifugal	
Motor Power	kw		1.10			1.5			1.50	
Motor Speed	rpm		1500			1500			1500	
Face Velocity	m/s		2.10			1.92			2.52	
CONDENSER SIDE										
Air Volume	m³/h		15.000			15.000			18.000	
	cmf		8.876			8.876			10.651	
Type			AXIAL			AXIAL			AXIAL	
Quantity	qty		1			1			2	
Total Fan Power	kw		1.97			1.97			1.20	
COMPRESSOR										
Compressor Type			SCROLL			SCROLL			SCROLL	
Quantity	qty		1			1			2	
Voltage	V		415			415			415	
Total Power	kw	6.16	7.86	8.99	7.19	9.29	10.75	8.30	10.70	12.28
Number of Circuit	qty		1			1			2	
Unit Airborne Sound Level	dbA		69			70			70	
Total Power Input	kw	9.23	10.93	12.06	10.66	12.76	14.22	11.00	13.40	14.98
EER		3.02	2.20	1.82	3.06	2.21	1.79	3.25	2.31	1.90
Unit Dimension [LxWxH]	mm	2250	1350	1820	2250	1650	1820	2900	1150	1520
Weight	kg		684			788			1031	

RTACS SERIES		RTACS 12127			RTACS 1227			RTACS 1527		
ACU MODEL		81235	81246	81252	94235	94246	94252	125235	125246	125252
Ambient Temperature	°C	35	46	52	35	46	52	35	46	52
	°F	95	115	126	95	115	126	95	115	126
Air Inlet Temperature DB	°C		27			27			27	
	°F		80.6			80.6			80.6	
Air Inlet Temperature WB	°C		19.5			19.5			19.5	
	°F		67.1			67.1			67.1	
EVAPORATOR SIDE										
Total Cooling Capacity	kw	40.8	34.9	31.5	49.8	43	38.4	65.2	56.4	51
	TR	11.61	9.93	8.96	14.17	12.23	10.92	18.55	16.05	14.51
Sensible Cooling Capacity	kw		22.65			27.92			36.51	
			6.44			7.94			10.39	
Air Volume	m³/h		5.800			7.150			9.350	
	cmf		3.432			4.231			5.533	
ESP	Pa		320			300			320	
Fan Type			Centrifugal			Centrifugal			Centrifugal	
Motor Power	kw		2.20			2.20			3	
Motor Speed	rpm		1500			1500			1500	
Face Velocity	m/s		2.37			2.59			2.54	
CONDENSER SIDE										
Air Volume	m³/h		19.600			28.000			30.000	
	cmf		11.598			16.568			17.751	
Type			AXIAL			AXIAL			AXIAL	
Quantity	qty		4			2			2	
Total Fan Power	kw		1.36			3.94			3.94	
COMPRESSOR										
Compressor Type			SCROLL			SCROLL			SCROLL	
Quantity	qty		2			2			2	
Voltage	V		415			415			415	
Total Power	kw	9.40	12.20	14.10	11.10	14.44	16.76	14.38	18.58	21.50
Number of Circuit	qty		2			2			2	
Unit Airborne Sound Level	dbA		70			71			73	
Total Power Input	kw	12.96	15.76	17.66	17.24	20.58	22.90	21.32	25.52	28.44
EER		3.15	2.21	1.78	2.89	2.09	1.68	3.06	2.21	1.79
Unit Dimension [LxWxH]	mm	2900	1250	1600	3050	1300	1700	3200	1650	1900
Weight	kg		1046			1256			1385	

RTACS SERIES		RTACS 18127			RTACS 18227			RTACS 18327		
ACU MODEL		144235	144246	144252	160235	160246	160252	190235	190246	190252
Ambient Temperature	°C	35	46	52	35	46	52	35	46	52
	°F	95	115	126	95	115	126	95	115	126
Air Inlet Temperature DB	°C		27			27			27	
	°F		80.6			80.6			80.6	
Air Inlet Temperature WB	°C		19.5			19.5			19.5	
	°F		67.1			67.1			67.1	
EVAPORATOR SIDE										
Total Cooling Capacity	kw	75.2	64.4	57.8	82.6	69.8	62.4	95.6	82.04	73.4
	TR	21.39	18.32	16.44	23.50	19.86	17.75	27.20	23.34	20.88
Sensible Cooling Capacity	kw		41.79			45.30			53.11	
			11.89			12.89			15.11	
Air Volume	m³/h		10.700			11.600			13.600	
	cmf		6.331			6.864			8.047	
ESP	Pa		350			350			350	
Fan Type			Centrifugal			Centrifugal			Centrifugal	
Motor Power	kw		4.00			4.00			5.50	
Motor Speed	rpm		1500			1500			1500	
Face Velocity	m/s		2.39			2.31			2.71	
CONDENSER SIDE										
Air Volume	m³/h		36.000			42.000			56.000	
	cmf		21.302			24.852			33.136	
Type			AXIAL			AXIAL			AXIAL	
Quantity	qty		4			4			4	
Total Fan Power	kw		2.40			2.40			7.88	
COMPRESSOR										
Compressor Type			SCROLL			SCROLL			SCROLL	
Quantity	qty		2			2			2	
Voltage	V		415			415			415	
Total Power	kw	16.26	21.10	24.40	18.52	23.70	27.30	22.10	28.30	32.40
Number of Circuit	qty		2			2			2	
Unit Airborne Sound Level	dbA		74			77			80	
Total Power Input	kw	22.66	27.50	30.80	24.92	30.10	33.70	35.48	41.68	45.78
EER		3.32	2.34	1.88	3.31	2.32	1.85	2.69	1.97	1.60
Unit Dimension [LxWxH]	mm	3300	1750	2000	3300	1750	2100	3300	1750	2100
Weight	kg		1518			1961			2318	

RTACS SERIES		RTACS 45027			RTACS 56127			RTACS 63127			RTACS 71127		
ACU MODEL		250235	250246	250252	310235	310246	310252	380235	380246	380252	250435	250446	250452
Ambient Temperature	°C	35	46	52	35	46	52	35	46	52	35	46	52
	°F	95	115	126	95	115	126	95	115	126	95	115	126
Air Inlet Temperature DB	°C		27			27			27			27	
	°F		80.6			80.6			80.6			80.6	
Air Inlet Temperature WB	°C		19.5			19.5			19.5			19.5	
	°F		67.1			67.1			67.1			67.1	
EVAPORATOR SIDE													
Total Cooling Capacity	kw	126.4	109.4	99.4	159	135.4	122.2	195	167.4	150.4	252.8	218.8	198.8
	TR	35.96	31.12	28.28	45.24	38.52	34.77	55.48	47.63	42.63	42.79	71.92	62.25
Sensible Cooling Capacity	kw		71.07			87.87			108.56			130.82	
			20.22			25.00			30.89			37.22	
Air Volume	m³/h		18.200			22.500			27.800			33.500	
	cmf		10.769			13.314			16.450			19.822	
ESP	Pa		280			330			400			550	
Fan Type			Centrifugal			Centrifugal			Centrifuga			Centrifugal	
Motor Power	kw		5.5			7.50			11.00			15.00	
Motor Speed	rpm		1500			1500			1500			1500	
Face Velocity	m/s		2.22			2.45			2.63			2.55	
CONDENSER SIDE													
Air Volume	m³/h		70.000			87.000			104.000			140.000	
			41.420			51.479			61.538			82.840	
Type			AXIAL			AXIAL			AXIAL			AXIAL	
Quantity	qty		4			4			6			8	
Total Fan Power	kw		10.52			9.32			15.78			21.04	
COMPRESSOR													
Compressor Type			SCROLL			SCROLL			SCROLL			SCROLL	
Quantity	qty		2			2			2			4	
Voltage	V		415			415			415			415	
Total Power	kw	29.10	37.50	43.20	36.30	46.40	53.40	44.00	56.00	64.40	58.20	75.00	86.40
Number of Circuit	qty		2			2			2			4	
Unit Airborne Sound Level	dbA		81			83			86			84	
Total Power Input	kw	45.12	53.52	59.22	52.12	63.22	70.22	70.78	82.78	91.18	94.24	111.04	122.44
EER		2.80	2.04	1.68	2.99	2.14	1.74	2.76	2.02	1.65	2.68	1.97	1.62
Unit Dimension [LxWxH]	mm	3500	1900	2200	3900	2100	2200	4550	1900	2200	5900	2100	2200
Weight	kg					3797			5221			6960	

RTACS SERIES		RTACS 80127			RTACS 90127			RTACS 90327			RTACS 100327		
ACU MODEL		310435	310446	310452	380435	380446	380452	310635	310646	310652	380635	380646	380652
Ambient Temperature	°C	35	46	52	35	46	52	35	46	52	35	46	52
	°F	95	115	126	95	115	126	95	115	126	95	115	126
Air Inlet Temperature DB	°C		27			27			27			27	
	°F		80.6			80.6			80.6			80.6	
Air Inlet Temperature WB	°C		19.5			19.5			19.5			19.5	
	°F		67.1			67.1			67.1			67.1	
EVAPORATOR SIDE													
Total Cooling Capacity	kw	318	270.8	244.4	390	334.8	300.8	477	406.2	366.6	585	502.2	451.2
	TR	90.47	77.04	69.53	110.96	95.25	85.58	135.71	115.56	104.30	166.43	142.88	128.37
Sensible Cooling Capacity	kw		175.73			214.78			263.99			312.41	
			50.00			61.11			75.10			88.88	
Air Volume	m³/h		45.000			55.000			67.600			80.000	
	cmf		26.627			32.544			40.000			47.337	
ESP	Pa		500			450			550			460	
Fan Type			Centrifugal			Centrifugal			Centrifugal			Centrifugal	
Motor Power	kw		18.5			22.00			30.00			30.00	
Motor Speed	rpm		1500			1500			1500			1500	
Face Velocity	m/s		2.58			2.35			2.43			2.45	
CONDENSER SIDE													
Air Volume	m³/h		174.000			208.000			261.000			312.000	
			102.959			123.077			154.438			184.615	
Type			AXIAL			AXIAL			AXIAL			AXIAL	
Quantity	qty		8			12			12			18	
Total Fan Power	kw		18.64			31.56			27.96			47.34	
COMPRESSOR													
Compressor Type			SCROLL			SCROLL			SCROLL			SCROLL	
Quantity	qty		4			4			6			6	
Voltage	V		415			415			415			415	
Total Power	kw	72.60	92.80	106.80	88.00	112.00	128.80	108.90	139.20	160.20	132.00	168.00	193.20
Number of Circuit	qty		4			4			6			6	
Unit Airborne Sound Level	dbA		86			89			88			91	
Total Power Input	kw	109.74	129.94	143.94	141.56	165.56	182.36	166.86	197.16	218.16	209.34	245.34	270.54
EER		2.90	2.08	1.70	2.76	2.02	1.65	2.86	2.06	1.68	2.79	2.05	1.67
Unit Dimension [LxWxH]	mm	7100	2200	2250	9100	2100	2200	10900	2100	2200	13000	2200	2250
Weight	kg		7280			7360			8383			8550	

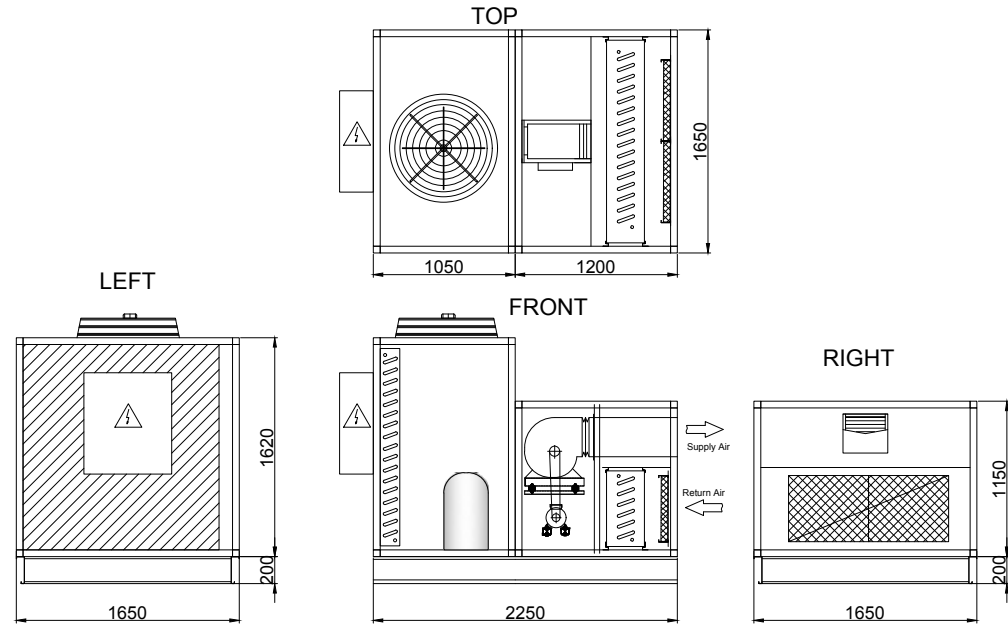
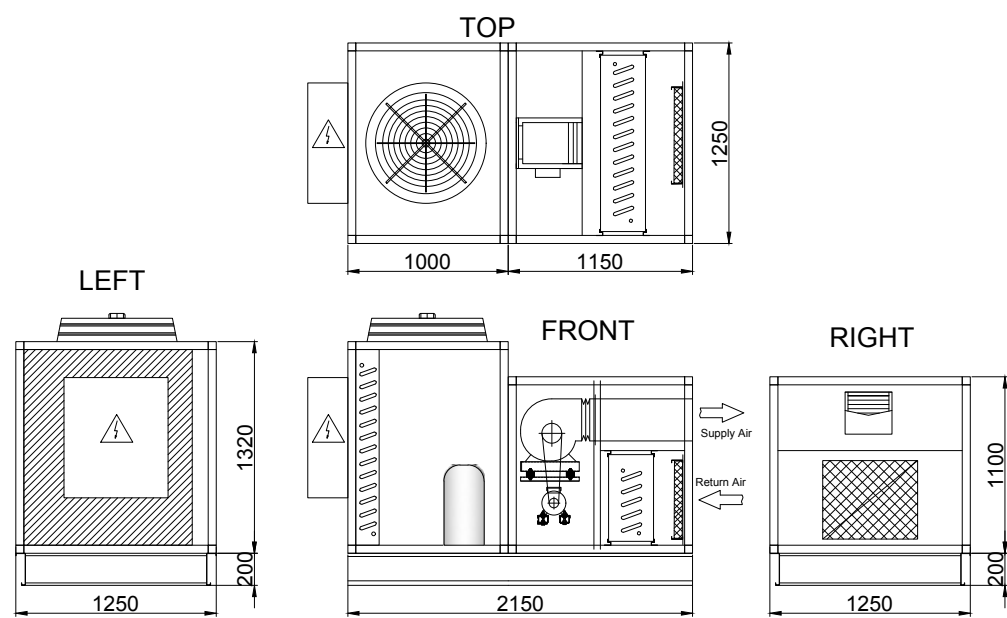


Evaporator side			Condenser side		
Ambient Temperature	°C	46	Compressor		Scroll
Total Cooling Capacity	kw	8.58	Quantity		1
Sensible Cooling Capacity	kw	5.47	Refrigeration Circuits		1
Air Inlet Temperature DB	°C	27	Power Input	kw	3.13
Air Inlet Temperature WB	°C	19.5	Nominal Current	A	5.57
Refrigerant		R407C	Control		Expansion valve
Air flow	m ³ /h	1400	Air flow	m ³ /h	4900
Evaporator Fan Quantity		1	Condenser Fan Quantity		1
Evaporator Fan		Radial double inlet	Condenser Fans		Axial
Type of drive		Belt Drive	Type of drive		Direct Drive
Fan Motor Type		IP55, TEFC, Class F	Axial Fan Motor Type		IP54, Class F
Motor Power	kw	0.37	Fan Motor Power	kw	0.34
Motor Nominal Current	A	12	Fan Motor Nominal Current	A	0.49
Coil		Copper Tubes, Aluminium Fins	Coil		Copper Tubes, Aluminium Fins
Number of rows		4	Number of rows		3
Face Velocity	m/s	1.18	Face Velocity	m/s	2.06
Fin space	mm	3.2	Fin space	mm	1.8
Heat transfer surface area	m ²	17.35	Heat transfer surface area	m ²	44.59
Coil Quantity		1	Coil Quantity		1
Case Profile		steel profiles	Case Profile		steel profiles
Panel Design		galvanized double skin	Panel Design		galvanized single skin
Painting		electrostatic polyester powder	Painting		electrostatic polyester powder
Insulation		50 mm. Rockwool	Insulation		N / A
Air filter		EU4, Panel filter	Air filter		N / A
Thickness	mm	48	Thickness	mm	N / A

Total Power Input	kw	3.84	Unit Dimensions W*H*L	mm	1000*1320*1900
Total Nominal Current	A	7.3	Unit operating weight	kg	428
Power Supply	V-Hz-ph	415-50-3	Control		Microprocessor

Evaporator side			Condenser side		
Ambient Temperature	°C	46	Compressor		Scroll
Total Cooling Capacity	kw	15.5	Quantity		1
Sensible Cooling Capacity	kw	9.96	Refrigeration Circuits		1
Air Inlet Temperature DB	°C	27	Power Input	kw	5.35
Air Inlet Temperature WB	°C	19.5	Nominal Current	A	9.37
Refrigerant		R407C	Control		Expansion valve
Air flow	m ³ /h	2550	Air flow	m ³ /h	9000
Evaporator Fan Quantity		1	Condenser Fan Quantity		1
Evaporator Fan		Radial double inlet	Condenser Fans		Axial
Type of drive		Belt Drive	Type of drive		Direct Drive
Fan Motor Type		IP55, TEFC, Class F	Axial Fan Motor Type		IP54, Class F
Motor Power	kw	0.75	Fan Motor Power	kw	0.6
Motor Nominal Current	A	2	Fan Motor Nominal Current	A	2.04
Coil		Copper Tubes, Aluminium Fins	Coil		Copper Tubes, Aluminium Fins
Number of rows		4	Number of rows		3
Face Velocity	m/s	2.07	Face Velocity	m/s	2.56
Fin space	mm	2	Fin space	mm	1.8
Heat transfer surface area	m ²	27.94	Heat transfer surface area	m ²	65.85
Coil Quantity		1	Coil Quantity		1
Case Profile		steel profiles	Case Profile		steel profiles
Panel Design		galvanized double skin	Panel Design		galvanized single skin
Painting		electrostatic polyester powder	Painting		electrostatic polyester powder
Insulation		50 mm. Rockwool	Insulation		N / A
Air filter		EU4, Panel filter	Air filter		N / A
Thickness	mm	48	Thickness	mm	N / A

Total Power Input	kw	6.7	Unit Dimensions W*H*L	mm	1150*1520*2100
Total Nominal Current	A	13.4	Unit operating weight	kg	523
Power Supply	V-Hz-ph	415-50-3	Control		Microprocessor

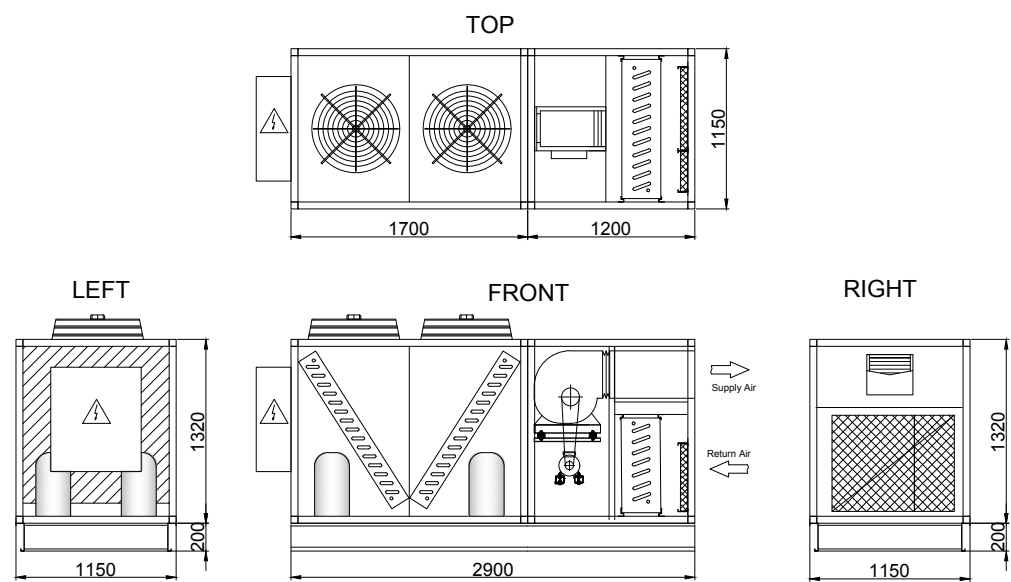


Evaporator side			Condenser side		
Ambient Temperature	°C	46	Compressor	Scroll	
Total Cooling Capacity	kw	21.5	Quantity	1	
Sensible Cooling Capacity	kw	13.86	Refrigeration Circuits	1	
Air Inlet Temperature DB	°C	27	Power Input	kw	7.22
Air Inlet Temperature WB	°C	19.5	Nominal Current	A	13.17
Refrigerant		R407C	Control	Expansion valve	
Air flow	m ³ /h	3.55	Air flow	m ³ /h	14000
Evaporator Fan Quantity		1	Condenser Fan Quantity	1	
Evaporator Fan		Radial double inlet	Condenser Fans	Axial	
Type of drive		Belt Drive	Type of drive	Direct Drive	
Fan Motor Type		IP55, TEFC, Class F	Axial Fan Motor Type	IP54, Class F	
Motor Power	kw	1.1	Fan Motor Power	kw	1.97
Motor Nominal Current	A	2.6	Fan Motor Nominal Current	A	2.72
Coil		Copper Tubes, Aluminium Fins	Coil	Copper Tubes, Aluminium Fins	
Number of rows		4	Number of rows	3	
Face Velocity	m/s	2.49	Face Velocity	m/s	3.54
Fin space	mm	18	Fin space	mm	18
Heat transfer surface area	m ²	35.62	Heat transfer surface area	m ²	74.08
Coil Quantity		1	Coil Quantity	3	1
Case Profile		steel profiles	Case Profile	steel profiles	
Panel Design		galvanized double skin	Panel Design	galvanized single skin	
Painting		electrostatic polyester powder	Painting	electrostatic polyester powder	
Insulation		50 mm. Rockwool	Insulation	N / A	
Air filter		EU4, Panel filter	Air filter	N / A	
Thickness	mm	48	Thickness	mm	N / A

Total Power Input	kw	10.29	Unit Dimensions W*H*L	mm	1250*1520*2150
Total Nominal Current	A	18.5	Unit operating weight	kg	597
Power Supply	V-Hz-ph	415-50-3	Control		Microprocessor

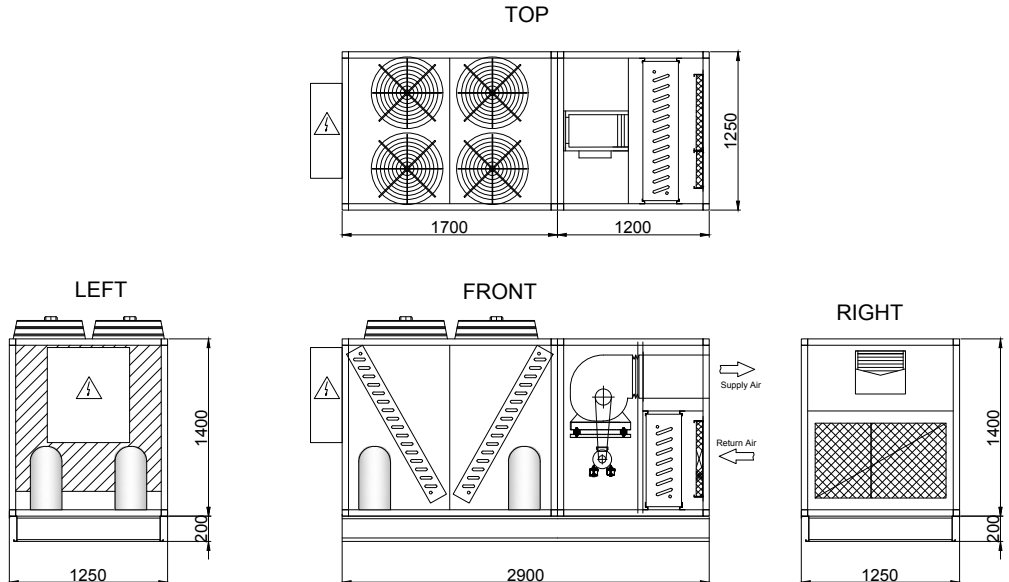
Evaporator side			Condenser side		
Ambient Temperature	°C	46	Compressor	Scroll	
Total Cooling Capacity	kw	28.2	Quantity	1	
Sensible Cooling Capacity	kw	18.16	Refrigeration Circuits	1	
Air Inlet Temperature DB	°C	27	Power Input	kw	9.29
Air Inlet Temperature WB	°C	19.5	Nominal Current	A	16.45
Refrigerant		R407C	Control	Expansion valve	
Air flow	m ³ /h	4650	Air flow	m ³ /h	15000
Evaporator Fan Quantity		1	Condenser Fan Quantity	1	
Evaporator Fan		Radial double inlet	Condenser Fans	Axial	
Type of drive		Belt Drive	Type of drive	Direct Drive	
Fan Motor Type		IP55, TEFC, Class F	Axial Fan Motor Type	IP54, Class F	
Motor Power	kw	1.5	Fan Motor Power	kw	1.97
Motor Nominal Current	A	2.6	Fan Motor Nominal Current	A	2.72
Coil		Copper Tubes, Aluminium Fins	Coil	Copper Tubes, Aluminium Fins	
Number of rows		4	Number of rows	3	
Face Velocity	m/s	2.42	Face Velocity	m/s	2.1
Fin space	mm	18	Fin space	mm	18
Heat transfer surface area	m ²	48.02	Heat transfer surface area	m ²	133.76
Coil Quantity		1	Coil Quantity	3	1
Case Profile		steel profiles	Case Profile	steel profiles	
Panel Design		galvanized double skin	Panel Design	galvanized single skin	
Painting		electrostatic polyester powder	Painting	electrostatic polyester powder	
Insulation		50 mm. Rockwool	Insulation	N / A	
Air filter		EU4, Panel filter	Air filter	N / A	
Thickness	mm	48	Thickness	mm	N / A

Total Power Input	kw	12.76	Unit Dimensions W*H*L	mm	1650*1820*2250
Total Nominal Current	A	21.8	Unit operating weight	kg	788
Power Supply	V-Hz-ph	415-50-3	Control		Microprocessor



Evaporator side			Condenser side		
Ambient Temperature	°C	46	Compressor		Scroll
Total Cooling Capacity	kw	31	Quantity		2
Sensible Cooling Capacity	kw	20.11	Refrigeration Circuits		2
Air Inlet Temperature DB	°C	27	Power Input	kw	10.70
Air Inlet Temperature WB	°C	19.5	Nominal Current	A	18.74
Refrigerant		R407C	Control		Expansion valve
Air flow	m ³ /h	5150	Air flow	m ³ /h	18000
Evaporator Fan Quantity		1	Condenser Fan Quantity		2
Evaporator Fan		Radial double inlet	Condenser Fans		Axial
Type of drive		Belt Drive	Type of drive		Direct Drive
Fan Motor Type		IP55, TEFC, Class F	Axial Fan Motor Type		IP54, Class F
Motor Power	kw	1.5	Fan Motor Power	kw	1.2
Motor Nominal Current	A	3.7	Fan Motor Nominal Current	A	4.08
Coil		Copper Tubes, Aluminium Fins	Coil		Copper Tubes, Aluminium Fins
Number of rows		4	Number of rows		3
Face Velocity	m/s	2.5	Face Velocity	m/s	2.56
Fin space	mm	18	Fin space	mm	18
Heat transfer surface area	m ²	51.45	Heat transfer surface area	m ²	131.7
Coil Quantity		1	Coil Quantity	3	2
Case Profile		steel profiles	Case Profile		steel profiles
Panel Design		galvanized double skin	Panel Design		galvanized single skin
Painting		electrostatic polyester powder	Painting		electrostatic polyester powder
Insulation		50 mm. Rockwool	Insulation		N / A
Air filter		EU4, Panel filter	Air filter		N / A
Thickness	mm	48	Thickness	mm	N / A

Total Power Input	kw	10.29	Unit Dimensions W*H*L	mm	1150*1520*2900
Total Nominal Current	A	26.5	Unit operating weight	kg	1031
Power Supply	V-Hz-ph	415-50-3	Control		Microprocessor



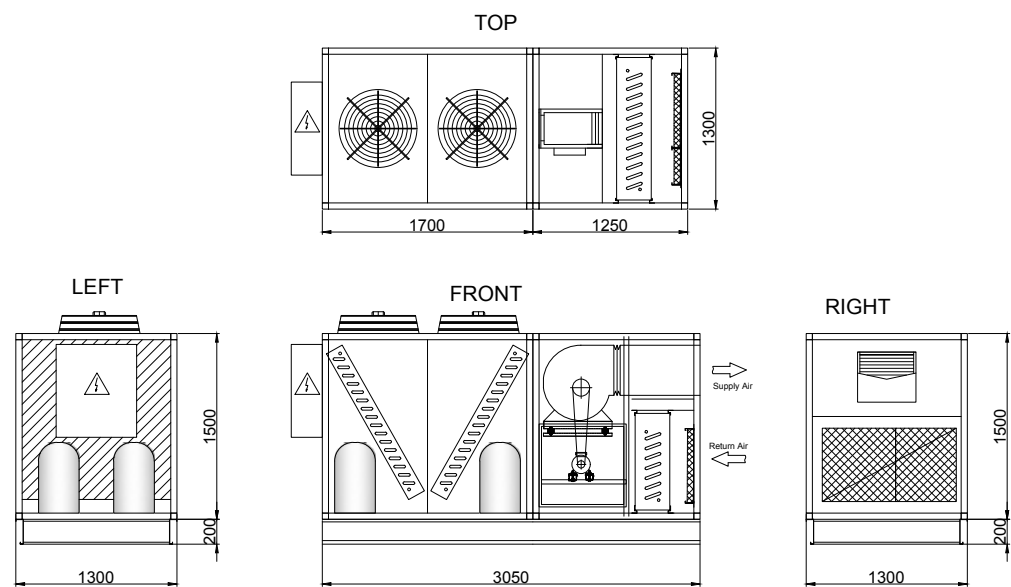
Evaporator side			Condenser side		
Ambient Temperature	°C	46	Compressor		Scroll
Total Cooling Capacity	kw	34.9	Quantity		2
Sensible Cooling Capacity	kw	22.65	Refrigeration Circuits		2
Air Inlet Temperature DB	°C	27	Power Input	kw	12.2
Air Inlet Temperature WB	°C	19.5	Nominal Current	A	22.42
Refrigerant		R407C	Control		Expansion valve
Air flow	m ³ /h	5800	Air flow	m ³ /h	19600
Evaporator Fan Quantity		1	Condenser Fan Quantity		4
Evaporator Fan		Radial double inlet	Condenser Fans		Axial
Type of drive		Belt Drive	Type of drive		Direct Drive
Fan Motor Type		IP55, TEFC, Class F	Axial Fan Motor Type		IP54, Class F
Motor Power	kw	2.2	Fan Motor Power	kw	1.36
Motor Nominal Current	A	4.7	Fan Motor Nominal Current	A	1.96
Coil		Copper Tubes, Aluminium Fins	Coil		Copper Tubes, Aluminium Fins
Number of rows		4	Number of rows		3
Face Velocity	m/s	2.45	Face Velocity	m/s	2.29
Fin space	mm	18	Fin space	mm	18
Heat transfer surface area	m ²	59.27	Heat transfer surface area	m ²	160.52
Coil Quantity		1	Coil Quantity	3	2
Case Profile		steel profiles	Case Profile		steel profiles
Panel Design		galvanized double skin	Panel Design		galvanized single skin
Painting		electrostatic polyester powder	Painting		electrostatic polyester powder
Insulation		50 mm. Rockwool	Insulation		N / A
Air filter		EU4, Panel filter	Air filter		N / A
Thickness	mm	48	Thickness	mm	N / A

Total Power Input	kw	15.76	Unit Dimensions W*H*L	mm	1250*1600*2900
Total Nominal Current	A	29.1	Unit operating weight	kg	1046
Power Supply	V-Hz-ph	415-50-3	Control		Microprocessor

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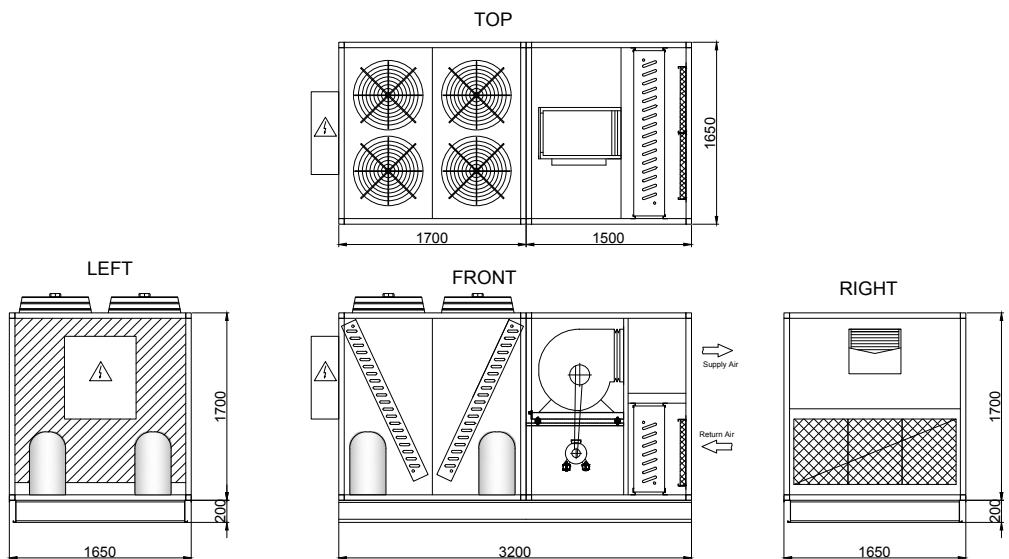
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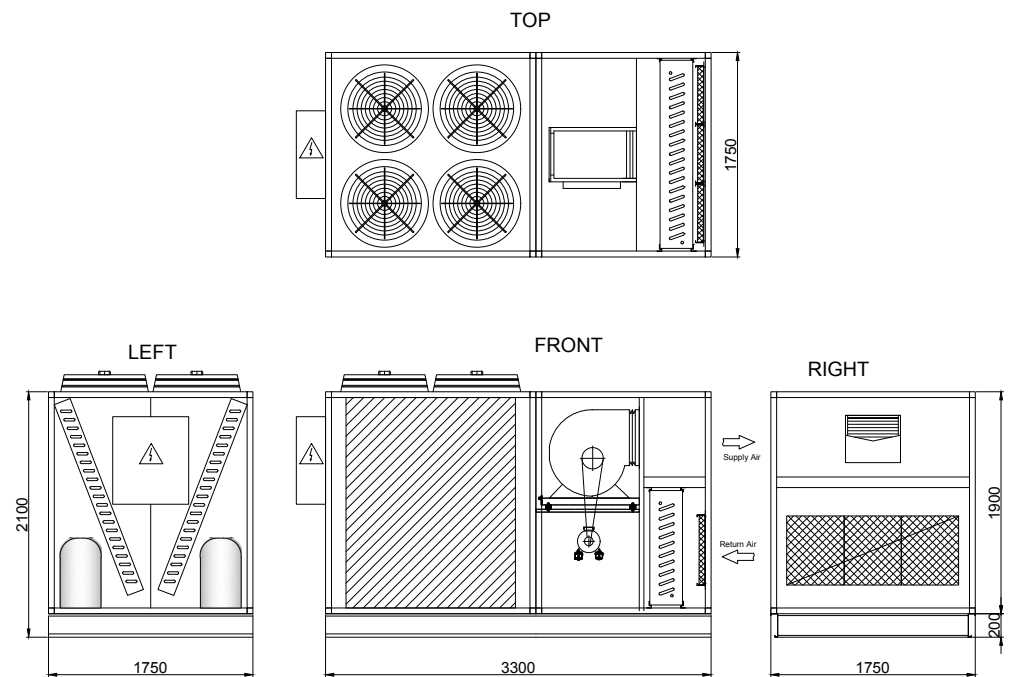
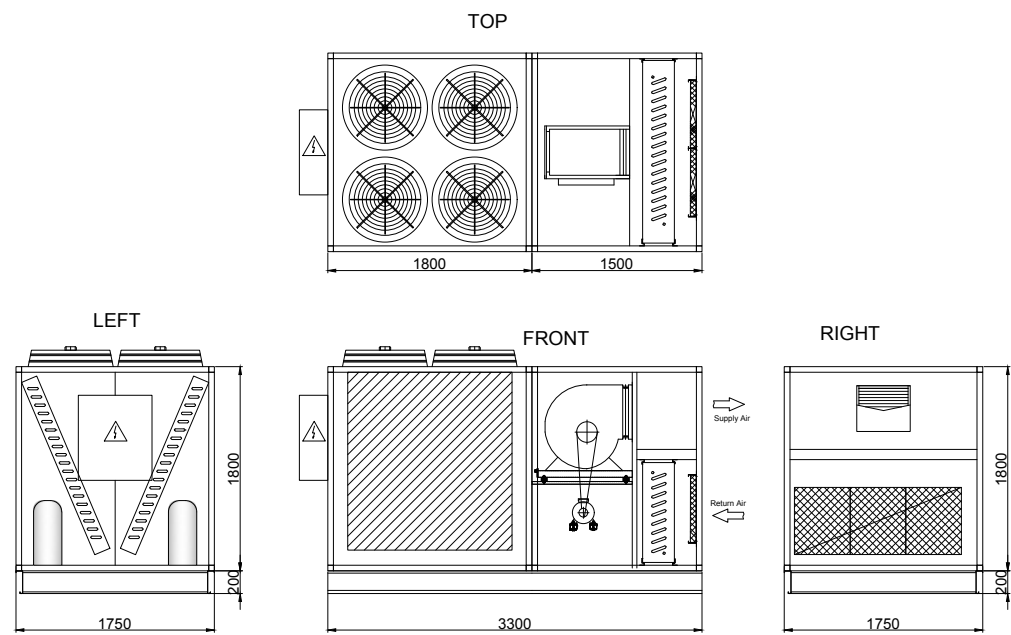
Evaporator side			Condenser side		
Ambient Temperature	°C	46	Compressor		Scroll
Total Cooling Capacity	kw	43	Quantity		2
Sensible Cooling Capacity	kw	27.92	Refrigeration Circuits		2
Air Inlet Temperature DB	°C	27	Power Input	kw	14.44
Air Inlet Temperature WB	°C	19.5	Nominal Current	A	26.34
Refrigerant		R407C	Control		Expansion valve
Air flow	m ³ /h	7150	Air flow	m ³ /h	28.000
Evaporator Fan Quantity		1	Condenser Fan Quantity		2
Evaporator Fan		Radial double inlet	Condenser Fans		Axial
Type of drive		Belt Drive	Type of drive		Direct Drive
Fan Motor Type		IP55, TEFC, Class F	Axial Fan Motor Type		IP54, Class F
Motor Power	kw	2.2	Fan Motor Power	kw	3.94
Motor Nominal Current	A	4.7	Fan Motor Nominal Current	A	5.44
Coil		Copper Tubes, Aluminium Fins	Coil		Copper Tubes, Aluminium Fins
Number of rows		4	Number of rows		3
Face Velocity	m/s	2.48	Face Velocity	m/s	3.54
Fin space	mm	18	Fin space	mm	18
Heat transfer surface area	m ²	72.03	Heat transfer surface area	m ²	142.16
Coil Quantity		1	Coil Quantity		2
Case Profile		steel profiles	Case Profile		steel profiles
Panel Design		galvanized double skin	Panel Design		galvanized single skin
Painting		electrostatic polyester powder	Painting		electrostatic polyester powder
Insulation		50 mm. Rockwool	Insulation		N / A
Air filter		EU4, Panel filter	Air filter		N / A
Thickness	mm	48	Thickness	mm	N / A

Total Power Input	kw	20.58	Unit Dimensions W*H*L	mm	1300*1700*3050
Total Nominal Current	A	36.5	Unit operating weight	kg	1256
Power Supply	V-Hz-ph	415-50-3	Control		Microprocessor



Evaporator side			Condenser side		
Ambient Temperature	°C	46	Compressor		Scroll
Total Cooling Capacity	kw	56.4	Quantity		2
Sensible Cooling Capacity	kw	36.51	Refrigeration Circuits		2
Air Inlet Temperature DB	°C	27	Power Input	kw	18.58
Air Inlet Temperature WB	°C	19.5	Nominal Current	A	32.9
Refrigerant		R407C	Control		Expansion valve
Air flow	m ³ /h	9350	Air flow	m ³ /h	30.000
Evaporator Fan Quantity		1	Condenser Fan Quantity		2
Evaporator Fan		Radial double inlet	Condenser Fans		Axial
Type of drive		Belt Drive	Type of drive		Direct Drive
Fan Motor Type		IP55, TEFC, Class F	Axial Fan Motor Type		IP54, Class F
Motor Power	kw	3	Fan Motor Power	kw	3.94
Motor Nominal Current	A	6.5	Fan Motor Nominal Current	A	5.44
Coil		Copper Tubes, Aluminium Fins	Coil		Copper Tubes, Aluminium Fins
Number of rows		4	Number of rows		3
Face Velocity	m/s	2.52	Face Velocity	m/s	2.1
Fin space	mm	18	Fin space	mm	18
Heat transfer surface area	m ²	92.83	Heat transfer surface area	m ²	267.52
Coil Quantity		1	Coil Quantity		2
Case Profile		steel profiles	Case Profile		steel profiles
Panel Design		galvanized double skin	Panel Design		galvanized single skin
Painting		electrostatic polyester powder	Painting		electrostatic polyester powder
Insulation		50 mm. Rockwool	Insulation		N / A
Air filter		EU4, Panel filter	Air filter		N / A
Thickness	mm	48	Thickness	mm	N / A

Total Power Input	kw	25.52	Unit Dimensions W*H*L	mm	1650*1900*3200
Total Nominal Current	A	44.8	Unit operating weight	kg	1385
Power Supply	V-Hz-ph	415-50-3	Control		Microprocessor

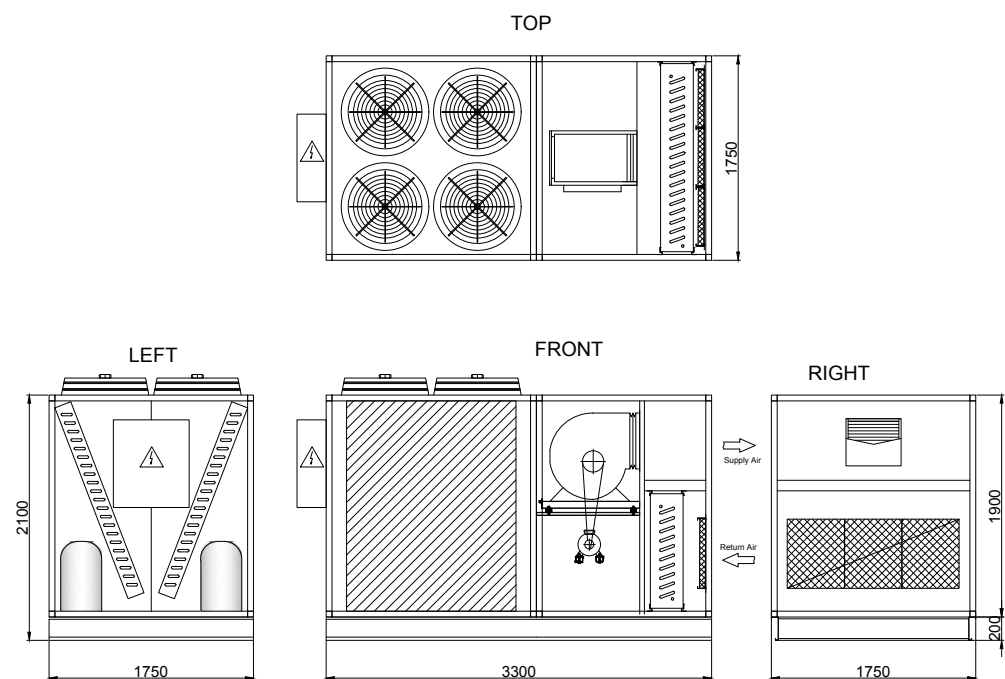


Evaporator side			Condenser side		
Ambient Temperature	°C	46	Compressor		Scroll
Total Cooling Capacity	kw	64.4	Quantity		2
Sensible Cooling Capacity	kw	41.79	Refrigeration Circuits		2
Air Inlet Temperature DB	°C	27	Power Input	kw	211
Air Inlet Temperature WB	°C	19.5	Nominal Current	A	36.38
Refrigerant		R407C	Control		Expansion valve
Air flow	m ³ /h	10.700	Air flow	m ³ /h	36.000
Evaporator Fan Quantity		1	Condenser Fan Quantity		4
Evaporator Fan		Radial double inlet	Condenser Fans		Axial
Type of drive		Belt Drive	Type of drive		Direct Drive
Fan Motor Type		IP55, TEFC, Class F	Axial Fan Motor Type		IP54, Class F
Motor Power	kw	4	Fan Motor Power	kw	2.4
Motor Nominal Current	A	8.1	Fan Motor Nominal Current	A	8.16
Coil		Copper Tubes, Aluminium Fins	Coil		Copper Tubes, Aluminium Fins
Number of rows		4	Number of rows		3
Face Velocity	m/s	2.45	Face Velocity	m/s	2.37
Fin space	mm	18	Fin space	mm	18
Heat transfer surface area	m ²	109.41	Heat transfer surface area	m ²	285.36
Coil Quantity		1	Coil Quantity		2
Case Profile		steel profiles	Case Profile		steel profiles
Panel Design		galvanized double skin	Panel Design		galvanized single skin
Painting		electrostatic polyester powder	Painting		electrostatic polyester powder
Insulation		50 mm. Rockwool	Insulation		N / A
Air filter		EU4, Panel filter	Air filter		N / A
Thickness	mm	48	Thickness	mm	N / A

Total Power Input	kw	27.5	Unit Dimensions W*H*L	mm	1750*2000*3200
Total Nominal Current	A	52.6	Unit operating weight	kg	1518
Power Supply	V-Hz-ph	415-50-3	Control		Microprocessor

Evaporator side			Condenser side		
Ambient Temperature	°C	46	Compressor		Scroll
Total Cooling Capacity	kw	69.8	Quantity		2
Sensible Cooling Capacity	kw	45.3	Refrigeration Circuits		2
Air Inlet Temperature DB	°C	27	Power Input	kw	123.7
Air Inlet Temperature WB	°C	19.5	Nominal Current	A	42.06
Refrigerant		R407C	Control		Expansion valve
Air flow	m ³ /h	11.600	Air flow	m ³ /h	42.000
Evaporator Fan Quantity		1	Condenser Fan Quantity		4
Evaporator Fan		Radial double inlet	Condenser Fans		Axial
Type of drive		Belt Drive	Type of drive		Direct Drive
Fan Motor Type		IP55, TEFC, Class F	Axial Fan Motor Type		IP54, Class F
Motor Power	kw	4	Fan Motor Power	kw	2.4
Motor Nominal Current	A	8.1	Fan Motor Nominal Current	A	8.16
Coil		Copper Tubes, Aluminium Fins	Coil		Copper Tubes, Aluminium Fins
Number of rows		4	Number of rows		3
Face Velocity	m/s	2.38	Face Velocity	m/s	2.6
Fin space	mm	18	Fin space	mm	18
Heat transfer surface area	m ²	121.83	Heat transfer surface area	m ²	303.2
Coil Quantity		1	Coil Quantity		2
Case Profile		steel profiles	Case Profile		steel profiles
Panel Design		galvanized double skin	Panel Design		galvanized single skin
Painting		electrostatic polyester powder	Painting		electrostatic polyester powder
Insulation		50 mm. Rockwool	Insulation		N / A
Air filter		EU4, Panel filter	Air filter		N / A
Thickness	mm	48	Thickness	mm	N / A

Total Power Input	kw	30.1	Unit Dimensions W*H*L	mm	1750*2100*3300
Total Nominal Current	A	58.3	Unit operating weight	kg	1961
Power Supply	V-Hz-ph	415-50-3	Control		Microprocessor

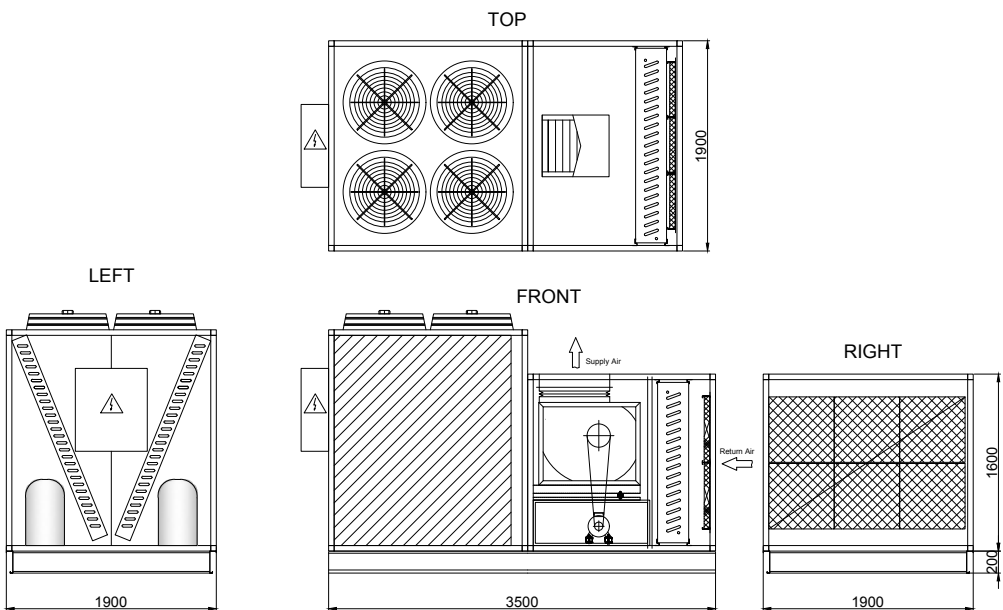


Evaporator side		
Ambient Temperature	°C	46
Total Cooling Capacity	kw	82.04
Sensible Cooling Capacity	kw	53.11
Air Inlet Temperature DB	°C	27
Air Inlet Temperature WB	°C	19.5
Refrigerant		R407C
Air flow	m ³ /h	13.600
Evaporator Fan Quantity		1
Evaporator Fan		Radial double inlet
Type of drive		Belt Drive
Fan Motor Type		IP55, TEFC, Class F
Motor Power	kw	5.5
Motor Nominal Current	A	10.9
Coil		Copper Tubes, Aluminium Fins
Number of rows		4
Face Velocity	m/s	2.61
Fin space	mm	18
Heat transfer surface area	m ²	130.33
Coil Quantity		1
Case Profile		steel profiles
Panel Design		galvanized double skin
Painting		electrostatic polyster powder
Insulation		50 mm. Rockwool
Air filter		EU4. Panel filter
Thickness	mm	48

Condenser side		
Compressor		Scroll
Quantity		2
Refrigeration Circuits		2
Power Input	kw	2.3
Nominal Current	A	54.1
Control		Expanction valve
Air flow	m ³ /h	56.000
Condenser Fan Quantity		4
Condenser Fans		Axial
Type of drive		Direct Drive
Axial Fan Motor Type		IP54, Class F
Fan Motor Power	kw	7.88
Fan Motor Nominal Current	A	10.88
Coil		Copper Tubes, Aluminium Fins
Number of rows		3
Face Velocity	m/s	3.46
Fin space	mm	18
Heat transfer surface area	m ²	303.2
Coil Quantity		2
Case Profile		steel profiles
Panel Design		galvanized single skin
Painting		electrostatic polyster powder
Insulation		N / A
Air filter		N / A
Thickness	mm	N / A

Total Power Input	kw	41.68
Total Nominal Current	A	75.9
Power Supply	V-Hz-ph	415-50-3

Unit Dimensions W*H*L	mm	1750*2100*3300
Unit operating weight	kg	2318
Control		Microprocessor



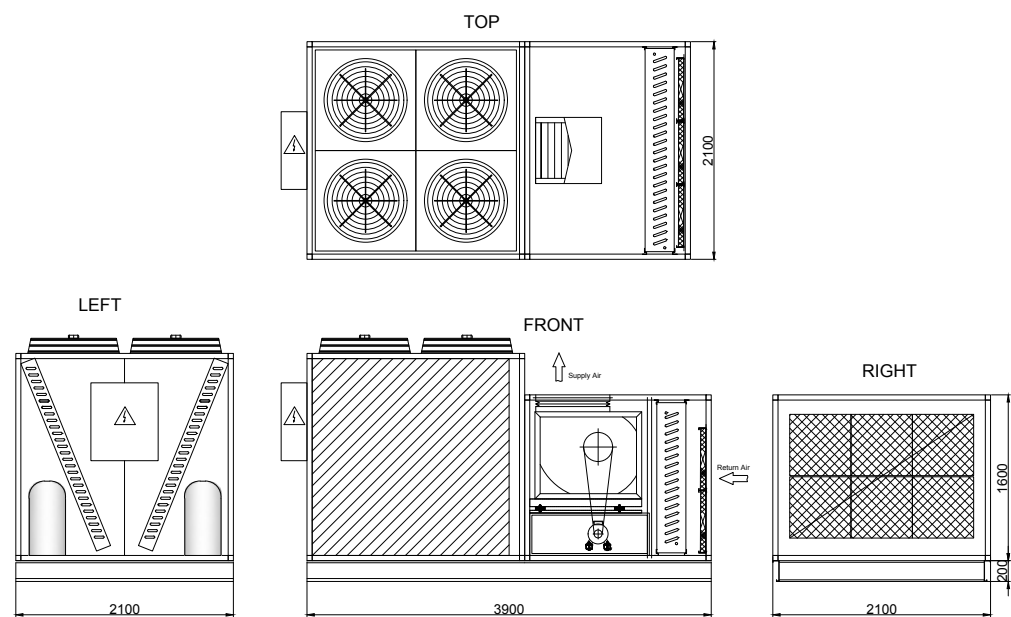
Evaporator side		
Ambient Temperature	°C	46
Total Cooling Capacity	kw	109.4
Sensible Cooling Capacity	kw	71.07
Air Inlet Temperature DB	°C	27
Air Inlet Temperature WB	°C	19.5
Refrigerant		R407C
Air flow	m ³ /h	18.200
Evaporator Fan Quantity		1
Evaporator Fan		Radial double inlet
Type of drive		Belt Drive
Fan Motor Type		IP55, TEFC, Class F
Motor Power	kw	5.5
Motor Nominal Current	A	10.9
Coil		Copper Tubes, Aluminium Fins
Number of rows		4
Face Velocity	m/s	2.46
Fin space	mm	18
Heat transfer surface area	m ²	185.21
Coil Quantity		1
Case Profile		steel profiles
Panel Design		galvanized double skin
Painting		electrostatic polyster powder
Insulation		50 mm. Rockwool
Air filter		EU4. Panel filter
Thickness	mm	48

Condenser side		
Compressor		Scroll
Quantity		2
Refrigeration Circuits		2
Power Input	kw	37.5
Nominal Current	A	62.1
Control		Expanction valve
Air flow	m ³ /h	70.000
Condenser Fan Quantity		4
Condenser Fans		Axial
Type of drive		Direct Drive
Axial Fan Motor Type		IP54, Class F
Fan Motor Power	kw	10.52
Fan Motor Nominal Current	A	16.28
Coil		Copper Tubes, Aluminium Fins
Number of rows		3
Face Velocity	m/s	3.6
Fin space	mm	18
Heat transfer surface area	m ²	364.94
Coil Quantity		2
Case Profile		steel profiles
Panel Design		galvanized single skin
Painting		electrostatic polyster powder
Insulation		N / A
Air filter		N / A
Thickness	mm	N / A

Total Power Input	kw	53.52
Total Nominal Current	A	89.3
Power Supply	V-Hz-ph	415-50-3

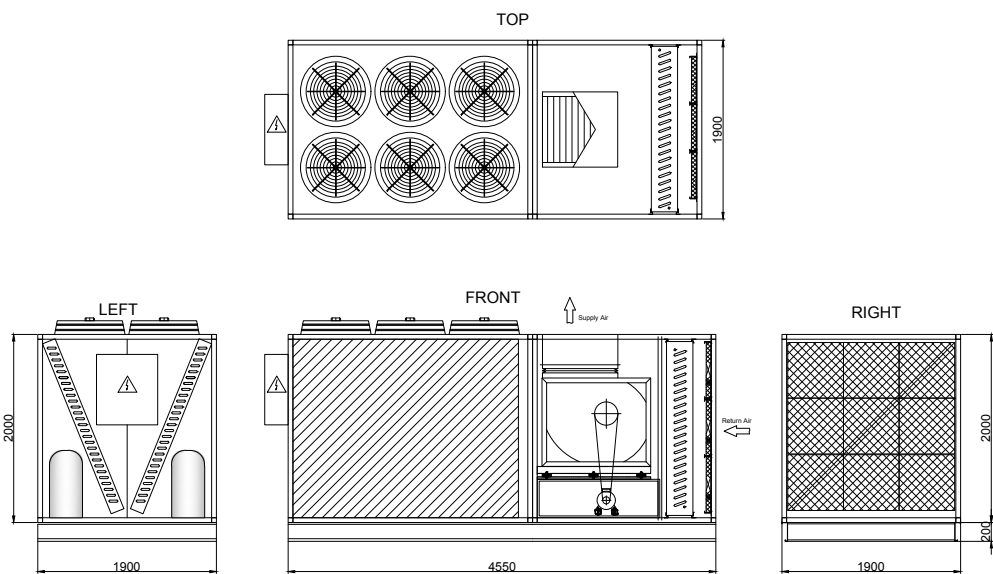
Unit Dimensions W*H*L	mm	1900*2200*3500
Unit operating weight	kg	2397
Control		Microprocessor

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is the true identity
of our company.**



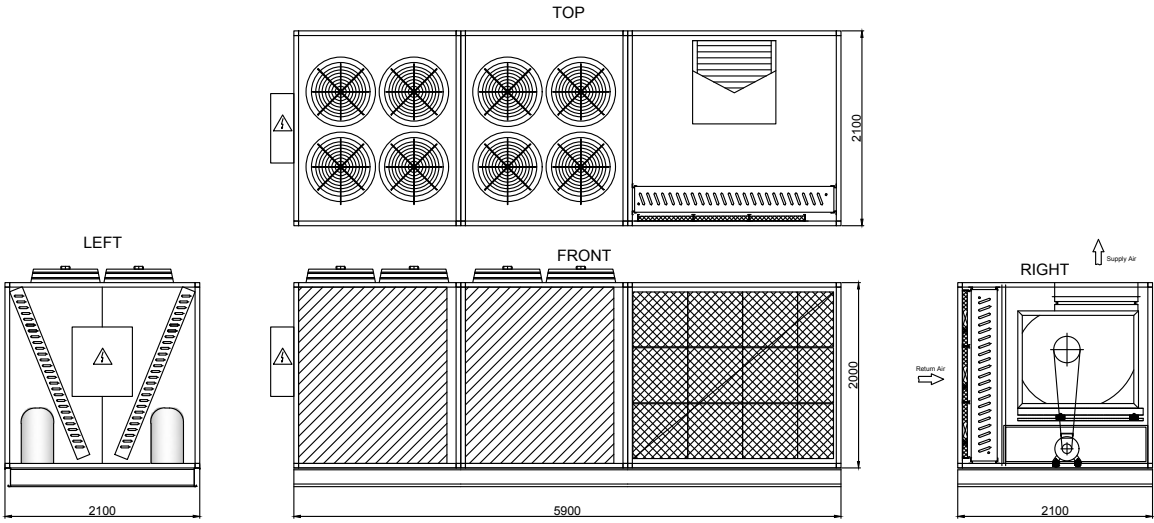
Evaporator side			Condenser side		
Ambient Temperature	°C	46	Compressor		Scroll
Total Cooling Capacity	kw	135.4	Quantity	2	
Sensible Cooling Capacity	kw	87.87	Refrigeration Circuits	2	
Air Inlet Temperature DB	°C	27	Power Input	kw	46.4
Air Inlet Temperature WB	°C	19.5	Nominal Current	A	77.96
Refrigerant		R407C	Control		Expanction valve
Air flow	m³/h	22.500	Air flow	m³/h	87.000
Evaporator Fan Quantity		1	Condenser Fan Quantity	4	
Evaporator Fan		Radial double inlet	Condenser Fans		Axial
Type of drive		Belt Drive	Type of drive		Direct Drive
Fan Motor Type		IP55, TEFC, Class F	Axial Fan Motor Type		IP54, Class F
Motor Power	kw	7.5	Fan Motor Power	kw	9.32
Motor Nominal Current	A	15.1	Fan Motor Nominal Current	A	18
Coil		Copper Tubes, Aluminium Fins	Coil		Copper Tubes, Aluminium Fins
Number of rows		4	Number of rows		3
Face Velocity	m/s	2.53	Face Velocity	m/s	3.68
Fin space	mm	18	Fin space	mm	18
Heat transfer surface area	m²	222.2	Heat transfer surface area	m²	443.14
Coil Quantity		1	Coil Quantity	3	2
Case Profile		steel profiles	Case Profile		steel profiles
Panel Design		galvanized double skin	Panel Design		galvanized single skin
Painting		electrostatic polyster powder	Painting		electrostatic polyster powder
Insulation		50 mm. Rockwool	Insulation		N / A
Air filter		EU4. Panel filter	Air filter		N / A
Thickness	mm	48	Thickness	mm	N / A

Total Power Input	kw	63.22	Unit Dimensions W*H*L	mm	2100*2200*3900
Total Nominal Current	A	111.1	Unit operating weight	kg	3797
Power Supply	V-Hz-ph	415-50-3	Control		Microprocessor



Evaporator side			Condenser side		
Ambient Temperature	°C	46	Compressor		Scroll
Total Cooling Capacity	kw	167.4	Quantity	2	
Sensible Cooling Capacity	kw	108.56	Refrigeration Circuits	2	
Air Inlet Temperature DB	°C	27	Power Input	kw	56
Air Inlet Temperature WB	°C	19.5	Nominal Current	A	95.36
Refrigerant		R407C	Control		Expanction valve
Air flow	m³/h	27.800	Air flow	m³/h	104.000
Evaporator Fan Quantity		1	Condenser Fan Quantity	6	
Evaporator Fan		Radial double inlet	Condenser Fans		Axial
Type of drive		Belt Drive	Type of drive		Direct Drive
Fan Motor Type		IP55, TEFC, Class F	Axial Fan Motor Type		IP54, Class F
Motor Power	kw	11	Fan Motor Power	kw	15.78
Motor Nominal Current	A	21.1	Fan Motor Nominal Current	A	24.42
Coil		Copper Tubes, Aluminium Fins	Coil		Copper Tubes, Aluminium Fins
Number of rows		4	Number of rows		3
Face Velocity	m/s	2.46	Face Velocity	m/s	3.4
Fin space	mm	18	Fin space	mm	18
Heat transfer surface area	m²	256.09	Heat transfer surface area	m²	573.46
Coil Quantity		1	Coil Quantity	3	2
Case Profile		steel profiles	Case Profile		steel profiles
Panel Design		galvanized double skin	Panel Design		galvanized single skin
Painting		electrostatic polyster powder	Painting		electrostatic polyster powder
Insulation		50 mm. Rockwool	Insulation		N / A
Air filter		EU4. Panel filter	Air filter		N / A
Thickness	mm	48	Thickness	mm	N / A

Total Power Input	kw	82.78	Unit Dimensions W*H*L	mm	1900*2200*4550
Total Nominal Current	A	104.9	Unit operating weight	kg	5221
Power Supply	V-Hz-ph	415-50-3	Control		Microprocessor

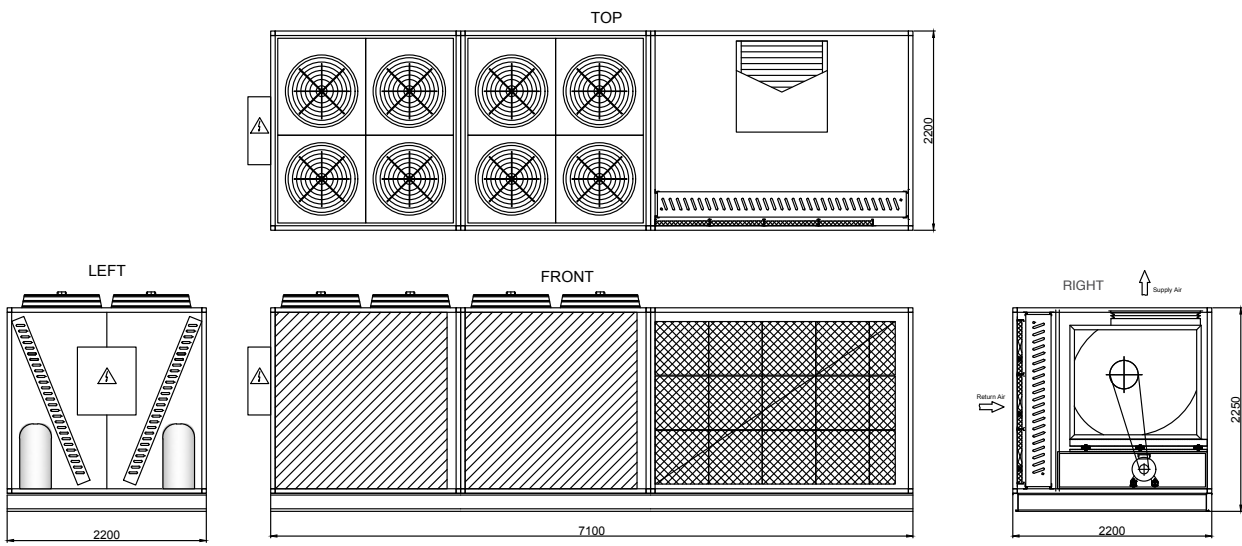


Evaporator side		
Ambient Temperature	°C	46
Total Cooling Capacity	kw	218.8
Sensible Cooling Capacity	kw	130.82
Air Inlet Temperature DB	°C	27
Air Inlet Temperature WB	°C	19.5
Refrigerant		R407C
Air flow	m³/h	33.500
Evaporator Fan Quantity		1
Evaporator Fan		Radial double inlet
Type of drive		Belt Drive
Fan Motor Type		IP55, TEFC, Class F
Motor Power	kw	15
Motor Nominal Current	A	28.7
Coil		Copper Tubes, Aluminium Fins
Number of rows		5
Face Velocity	m/s	2.55
Fin space	mm	21
Heat transfer surface area	m²	354.6
Coil Quantity		1
Case Profile		steel profiles
Panel Design		galvanized double skin
Painting		electrostatic polyester powder
Insulation		50 mm. Rockwool
Air filter		EU4. Panel filter
Thickness	mm	48

Total Power Input	kw	111.04
Total Nominal Current	A	185.5
Power Supply	V-Hz-ph	415-50-3

Condenser side		
Compressor		Scroll
Quantity		4
Refrigeration Circuits		4
Power Input	kw	75
Nominal Current	A	124.2
Control		Expansion valve
Air flow	m³/h	140.000
Condenser Fan Quantity		8
Condenser Fans		Axial
Type of drive		Direct Drive
Axial Fan Motor Type		IP54, Class F
Fan Motor Power	kw	21.04
Fan Motor Nominal Current	A	32.56
Coil		Copper Tubes, Aluminium Fins
Number of rows		3
Face Velocity	m/s	3.6
Fin space	mm	18
Heat transfer surface area	m²	729.88
Coil Quantity	3	4
Case Profile		steel profiles
Panel Design		galvanized single skin
Painting		electrostatic polyester powder
Insulation		N / A
Air filter		N / A
Thickness	mm	N / A

Unit Dimensions W*H*L	mm	2100*2200*5900
Unit operating weight	kg	6960
Control		Microprocessor

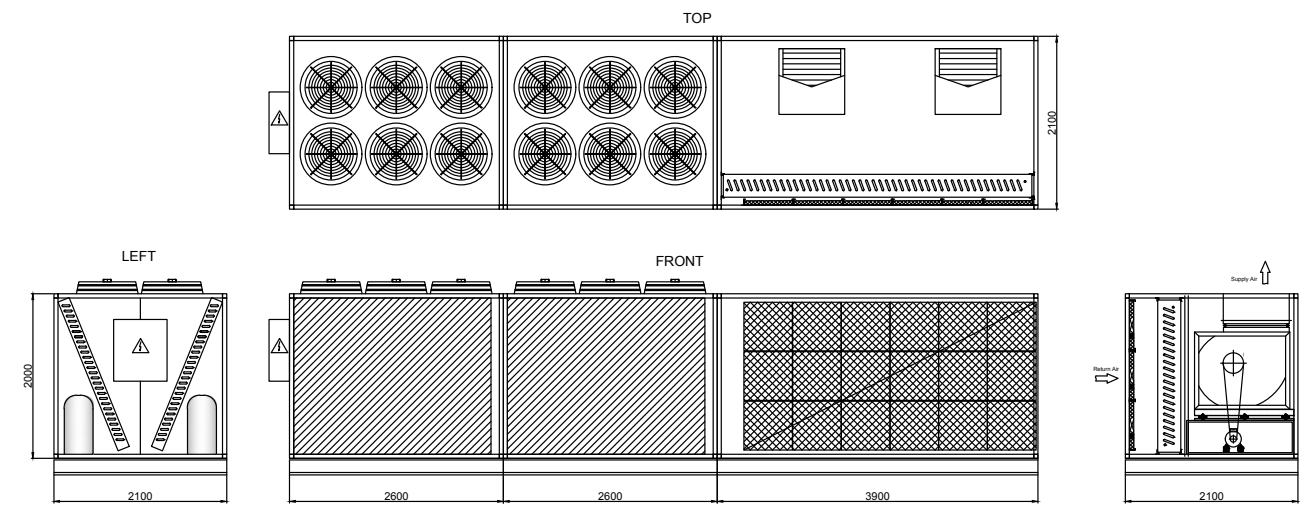


Evaporator side		
Ambient Temperature	°C	46
Total Cooling Capacity	kw	270.8
Sensible Cooling Capacity	kw	175.73
Air Inlet Temperature DB	°C	27
Air Inlet Temperature WB	°C	19.5
Refrigerant		R407C
Air flow	m³/h	45.000
Evaporator Fan Quantity		2
Evaporator Fan		Radial double inlet
Type of drive		Belt Drive
Fan Motor Type		IP55, TEFC, Class F
Motor Power	kw	18.5
Motor Nominal Current	A	34.5
Coil		Copper Tubes, Aluminium Fins
Number of rows		5
Face Velocity	m/s	2.54
Fin space	mm	23
Heat transfer surface area	m²	439.81
Coil Quantity		1
Case Profile		steel profiles
Panel Design		galvanized double skin
Painting		electrostatic polyester powder
Insulation		50 mm. Rockwool
Air filter		EU4. Panel filter
Thickness	mm	48

Total Power Input	kw	129.94
Total Nominal Current	A	226.4
Power Supply	V-Hz-ph	415-50-3

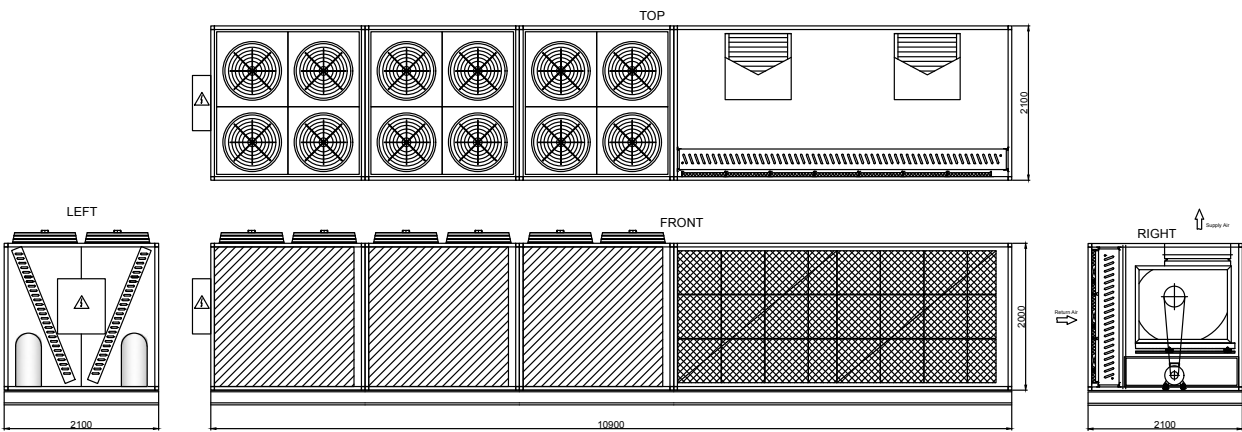
Condenser side		
Compressor		Scroll
Quantity		4
Refrigeration Circuits		4
Power Input	kw	92.8
Nominal Current	A	155.92
Control		Expansion valve
Air flow	m³/h	174.000
Condenser Fan Quantity		8
Condenser Fans		Axial
Type of drive		Direct Drive
Axial Fan Motor Type		IP54, Class F
Fan Motor Power	kw	18.64
Fan Motor Nominal Current	A	36
Coil		Copper Tubes, Aluminium Fins
Number of rows		3
Face Velocity	m/s	3.68
Fin space	mm	18
Heat transfer surface area	m²	886.28
Coil Quantity	3	4
Case Profile		steel profiles
Panel Design		galvanized single skin
Painting		electrostatic polyester powder
Insulation		N / A
Air filter		N / A
Thickness	mm	N / A

Unit Dimensions W*H*L	mm	2200*2250*7100
Unit operating weight	kg	7280
Control		Microprocessor



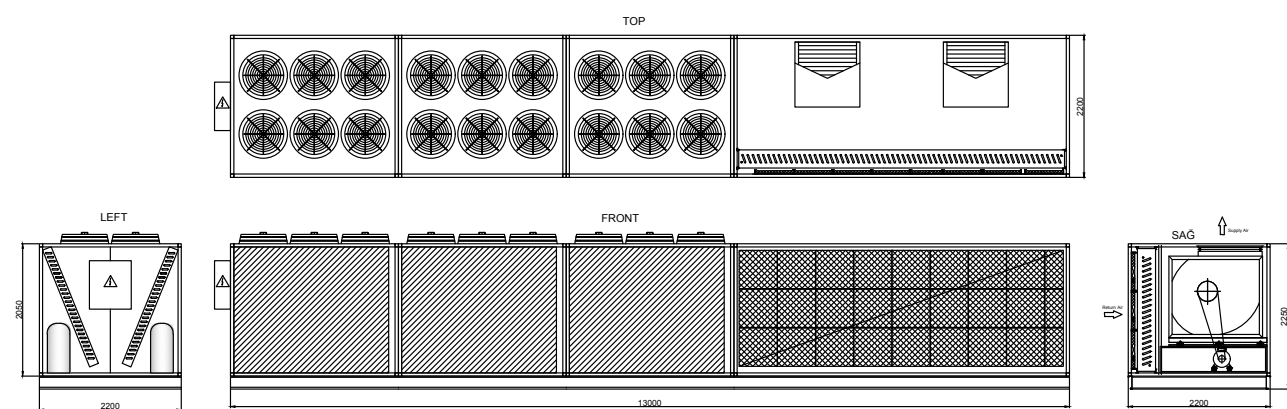
Evaporator side			Condenser side		
Ambient Temperature	°C	46	Compressor		Scroll
Total Cooling Capacity	kw	224.8	Quantity		4
Sensible Cooling Capacity	kw	214.78	Refrigeration Circuits		4
Air Inlet Temperature DB	°C	27	Power Input	kw	112
Air Inlet Temperature WB	°C	19.5	Nominal Current	A	190.72
Refrigerant		R407C	Control		Expanction valve
Air flow	m³/h	55.000	Air flow	m³/h	208.000
Evaporator Fan Quantity		2	Condenser Fan Quantity		12
Evaporator Fan		Radial double inlet	Condenser Fans		Axial
Type of drive		Belt Drive	Type of drive		Direct Drive
Fan Motor Type		IP55, TEFC, Class F	Axial Fan Motor Type		IP54, Class F
Motor Power	kw	22	Fan Motor Power	kw	31.56
Motor Nominal Current	A	42.2	Fan Motor Nominal Current	A	48.84
Coil		Copper Tubes, Aluminium Fins	Coil		Copper Tubes, Aluminium Fins
Number of rows		5	Number of rows		3
Face Velocity	m/s	2.53	Face Velocity	m/s	3.4
Fin space	mm	2.3	Fin space	mm	1.8
Heat transfer surface area	m²	539.2	Heat transfer surface area	m²	1146.92
Coil Quantity		1	Coil Quantity	³	4
Case Profile		steel profiles	Case Profile		steel profiles
Panel Design		galvanized double skin	Panel Design		galvanized single skin
Painting		electrostatic polyster powder	Painting		electrostatic polyster powder
Insulation		50 mm. Rockwool	Insulation		N / A
Air filter		EU4. Panel filter	Air filter		N / A
Thickness	mm	48	Thickness	mm	N / A

Total Power Input	kw	165.56	Unit Dimensions W*H*L	mm	2100*2200*9100
Total Nominal Current	A	281.8	Unit operating weight	kg	7360
Power Supply	V-Hz-ph	415-50-3	Control		Microprocessor



Evaporator side			Condenser side		
Ambient Temperature	°C	46	Compressor		Scroll
Total Cooling Capacity	kw	406.2	Quantity		6
Sensible Cooling Capacity	kw	264	Refrigeration Circuits		6
Air Inlet Temperature DB	°C	27	Power Input	kw	139.2
Air Inlet Temperature WB	°C	19.5	Nominal Current	A	233.9
Refrigerant		R407C	Control		Expanction valve
Air flow	m³/h	67.600	Air flow	m³/h	261.000
Evaporator Fan Quantity		2	Condenser Fan Quantity		12
Evaporator Fan		Radial double inlet	Condenser Fans		Axial
Type of drive		Belt Drive	Type of drive		Direct Drive
Fan Motor Type		IP55, TEFC, Class F	Axial Fan Motor Type		IP54, Class F
Motor Power	kw	30	Fan Motor Power	kw	27.96
Motor Nominal Current	A	57.4	Fan Motor Nominal Current	A	54
Coil		Copper Tubes, Aluminium Fins	Coil		Copper Tubes, Aluminium Fins
Number of rows		5	Number of rows		3
Face Velocity	m/s	2.5	Face Velocity	m/s	3.68
Fin space	mm	2.3	Fin space	mm	1.8
Heat transfer surface area	m²	669.9	Heat transfer surface area	m²	1329.42
Coil Quantity		1	Coil Quantity	³	6
Case Profile		steel profiles	Case Profile		steel profiles
Panel Design		galvanized double skin	Panel Design		galvanized single skin
Painting		electrostatic polyster powder	Painting		electrostatic polyster powder
Insulation		50 mm. Rockwool	Insulation		N / A
Air filter		EU4. Panel filter	Air filter		N / A
Thickness	mm	48	Thickness	mm	N / A

Total Power Input	kw	197.16	Unit Dimensions W*H*L	mm	2100*2200*10900
Total Nominal Current	A	345.3	Unit operating weight	kg	8383
Power Supply	V-Hz-ph	415-50-3	Control		Microprocessor



Evaporator side			Condenser side		
Ambient Temperature	°C	46	Compressor	Scroll	
Total Cooling Capacity	kw	502.2	Quantity	6	
Sensible Cooling Capacity	kw	312.4	Refrigeration Circuits	6	
Air Inlet Temperature DB	°C	27	Power Input	kw	168
Air Inlet Temperature WB	°C	19.5	Nominal Current	A	286.08
Refrigerant		R407C	Control		Expansion valve
Air flow	m ³ /h	80.000	Air flow	m ³ /h	312.000
Evaporator Fan Quantity		2	Condenser Fan Quantity		18
Evaporator Fan		Radial double inlet	Condenser Fans		Axial
Type of drive		Belt Drive	Type of drive		Direct Drive
Fan Motor Type		IP55, TEFC, Class F	Axial Fan Motor Type		IP54, Class F
Motor Power	kw	30	Fan Motor Power	kw	47.34
Motor Nominal Current	A	57.4	Fan Motor Nominal Current	A	73.26
Coil		Copper Tubes, Aluminium Fins	Coil		Copper Tubes, Aluminium Fins
Number of rows		5	Number of rows		3
Face Velocity	m/s	2.52	Face Velocity	m/s	3.4
Fin space	mm	2.3	Fin space	mm	1.8
Heat transfer surface area	m ²	789.29	Heat transfer surface area	m ²	1720.38
Coil Quantity		1	Coil Quantity		6
Case Profile		steel profiles	Case Profile		steel profiles
Panel Design		galvanized double skin	Panel Design		galvanized single skin
Painting		electrostatic polyester powder	Painting		electrostatic polyester powder
Insulation		50 mm. Rockwool	Insulation		N / A
Air filter		EU4, Panel filter	Air filter		N / A
Thickness	mm	48	Thickness	mm	N / A

Total Power Input	kw	245.34	Unit Dimensions W*H*L	mm	2100*2250*1300
Total Nominal Current	A	416.7	Unit operating weight	kg	8550
Power Supply	V-Hz-ph	415-50-3	Control		Microprocessor



To us,
we have two important assets
that deserves constant investment,
human and **technology!**

Control Systems



Manufacturer may change in dimensions on production process regarding to custom made design
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Control System

Software Features

Controlling

- ✓ Multiple circuits DX system possibility
- ✓ Scroll Compressors
- ✓ Compressors for each independent cooling circuits
- ✓ Condensers and axial fans for each independent cooling circuits

Hardware

- ✓ Mpc Small, Medium control boards
- ✓ PGDI or PLD screen
- ✓ User friendly menu control in English
- ✓ P/PI/PID controlling
- ✓ Based on an optional temperature prob

Set Point Options

- ✓ Comfort, pre-comfort, economic set points
- ✓ Set point limitations

Protections & Alarms

- ✓ Automatic /manual/ semi automatic alarm management
- ✓ Adjustable alarm timer parameters
- ✓ Alarm history
- ✓ Air flow switch
- ✓ Circuit Breakers Alarms for Compressor and Fans
- ✓ Low and high pressure switches
- ✓ Dirty Filter Alarm
- ✓ Phase Protection Alarm
- ✓ High pressure protection
- ✓ Low pressure protection
- ✓ Blowing air temperature limitation

Date Based Plannig

- ✓ 4 different time zones
- ✓ Option to assign 5 different special days
- ✓ Option to assign 10 different holiday periods

Seasonal timer

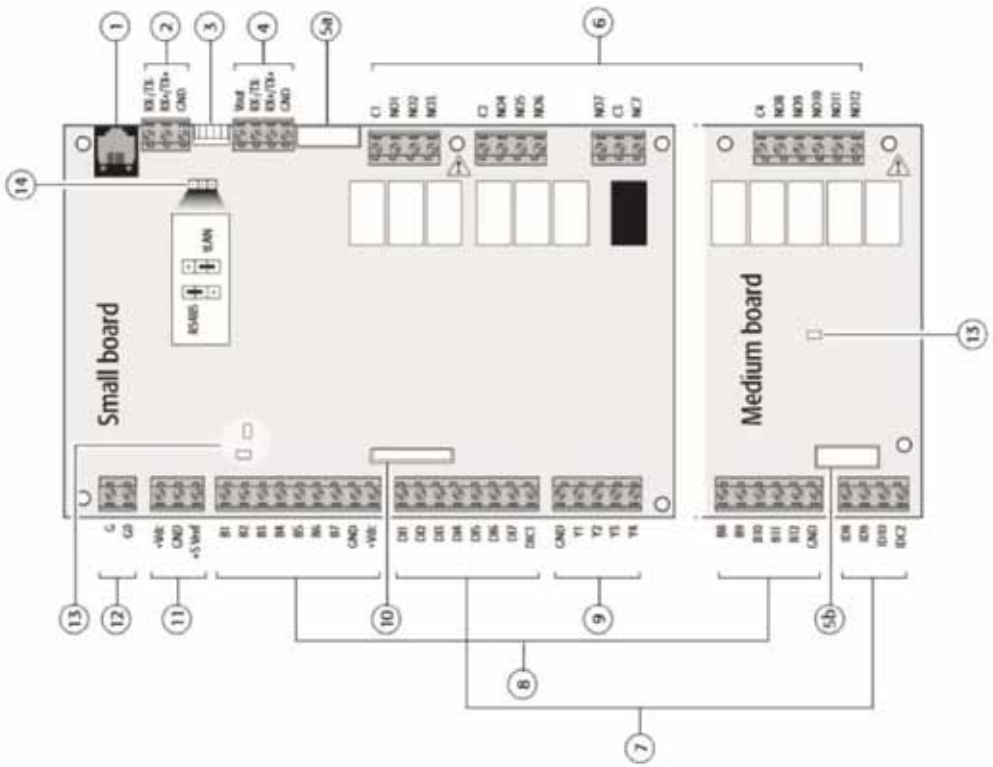
Timer functions
Identification of seasonal variations and active set points

Seasonal Variations

- ✓ Through the keyboard
- ✓ Timer based
- ✓ Fresh air temperature based
- ✓ Fresh air temperature and timer based

Control System

Hardware Features



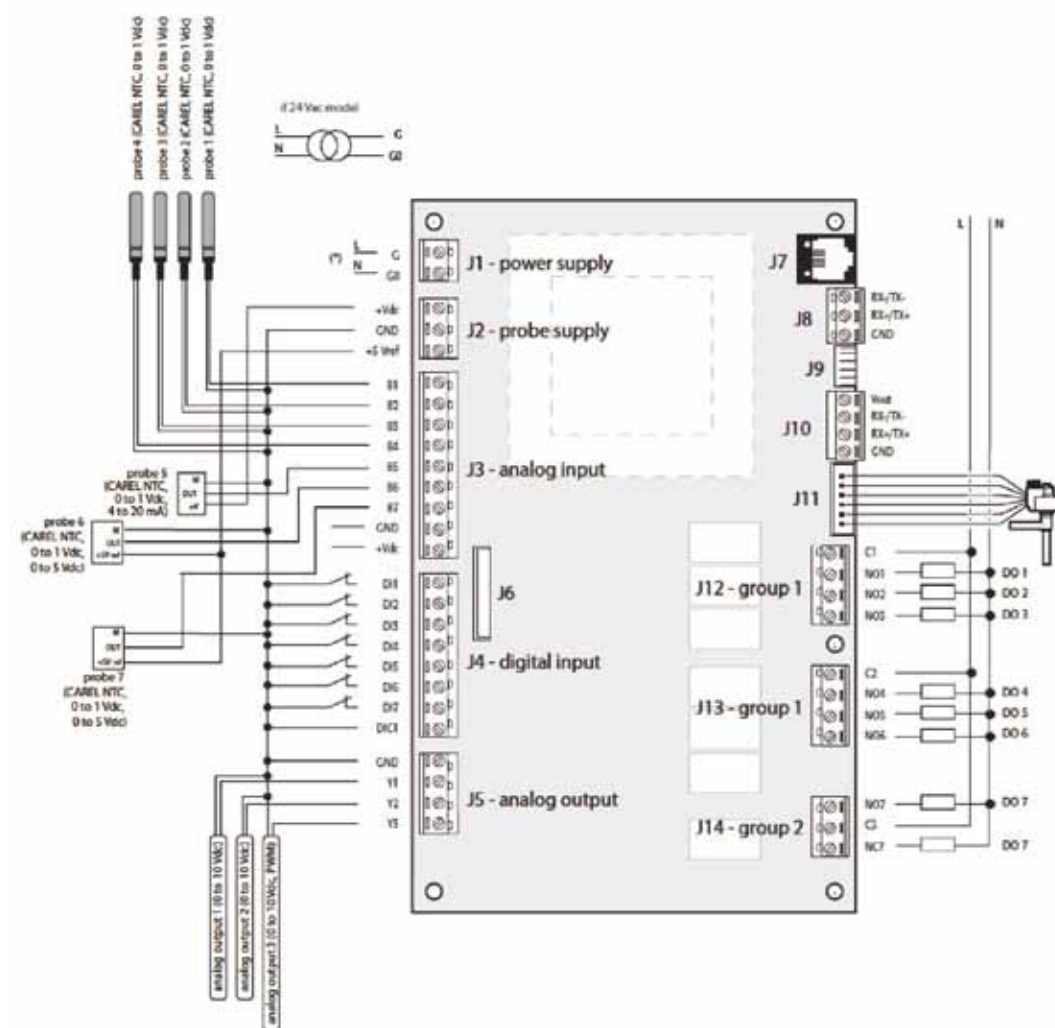
mPC Small & Medium

- ✓ User interface terminal [pLD, PGDI] connection
- ✓ mPC Bus, pLAN line
- ✓ PLD terminal connection
- ✓ RS485/ tLAN connection
- ✓ ExV connection – Only available on compatible models
- ✓ Exv connection 2 - Only available on compatible models
- ✓ Digital output relays
- ✓ Digital inputs
- ✓ Analog inputs
- ✓ Analog outputs
- ✓ Serial card slot
- ✓ Power supply for probes
- ✓ Power supply 24 Vac in UPCB models
- ✓ LED – Orange: Power status of the card. Green: BIOS status
- ✓ tLAN/ RS485 jumper



Control System

Input / Output Connections



Control System

User Screens



Alarm button: Used for receiving information regarding the system alarms. It alarms as red light flashes if there are any active alarms on the system.



PRG Button: Used for logging in to the system settings.



ESC Button: Used for heading back to the home page from any other page.



Down Arrow Button: Used for proceeding to the next page and decreasing the number as one.



Up Arrow Button: Used for getting back to the previous page and increasing the number as one.



Enter Button: Used for applying the changes.



Control System Home Screen



Respectively: Date, day of the week, time information.

One of the system probes. The probe displayed changes as you hit the "ESC" button. The probes that are going to be displayed can be adjusted through the Gc01 screen.

The line which displays the currently working devices in the system. From left to right respectively: Ventilator fan status, compressor status. The images have animations indicating that the devices are in operation.

symbol shows at least one compressor is active.

shows the return air temperature is in accordance with the reference value.

Unit Status

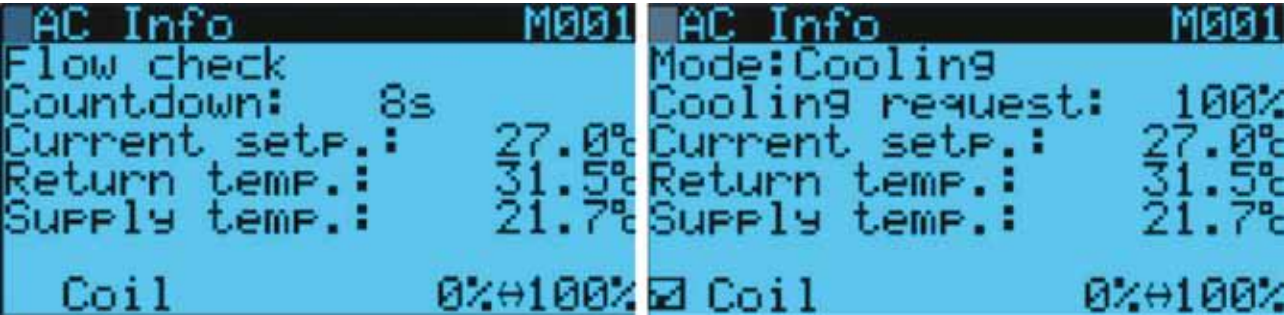
- Unit ON: Indicates the unit is in operation.
- OFF by ALARM: Indicates the unit is shut down due to alarm.
- OFF by SPV: Indicates the unit is shut down due to supervisor.
- OFF by Blackout: Indicates the unit is shut down due to power outage.
- OFF by KEYBOARD: Indicates the unit is shut down through the screen.
- MANUAL: Indicates the unit is manually operational.
- Comfort: Indicates the unit is operational in comfort mode.

The information which will be displayed here can be adjustable through Gc02 screen.

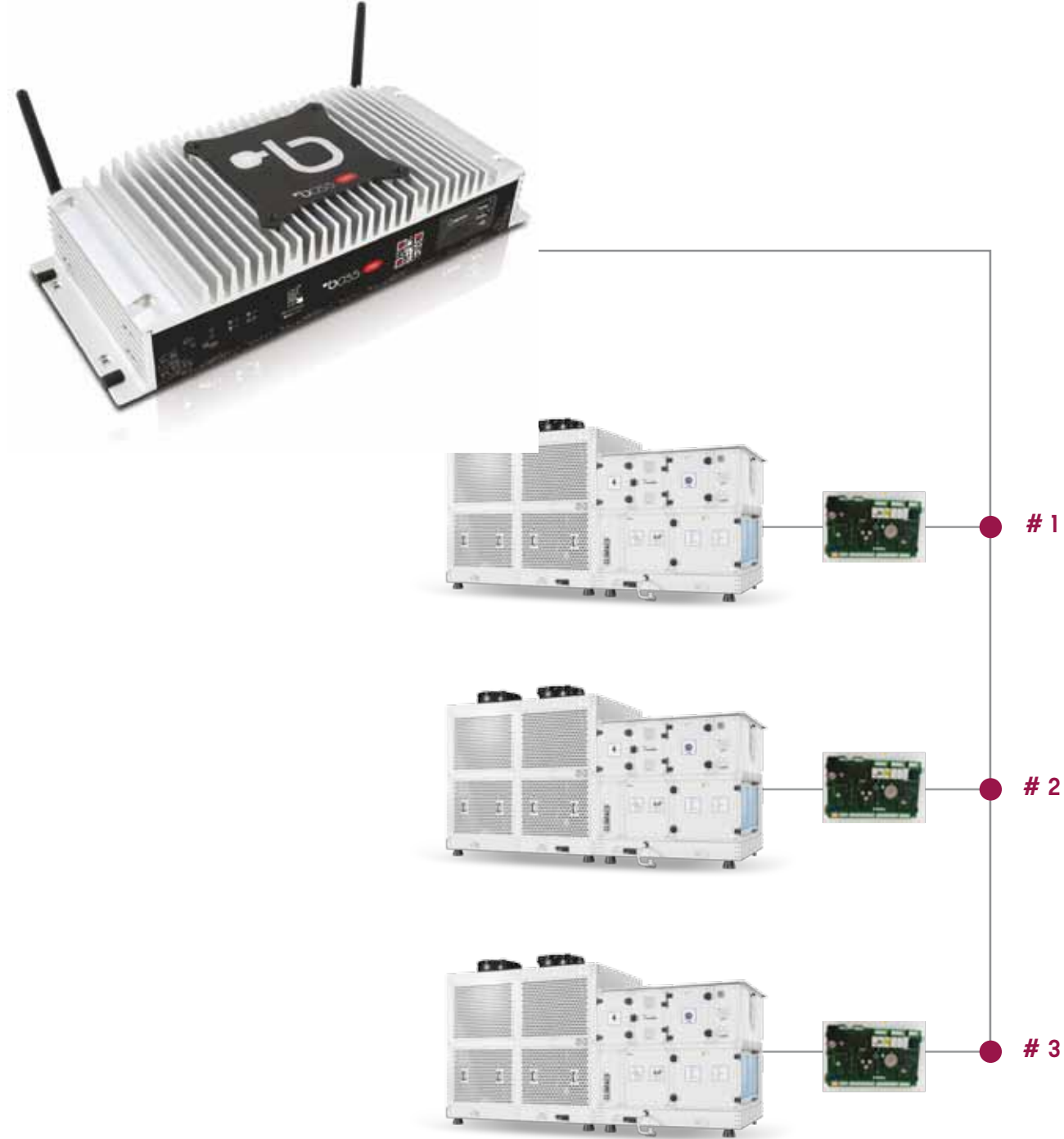
User menu. You can explore between the tabs of the menu by hitting "DOWN" and "UP" arrow buttons in the home screen. The selected tab is accessible by hitting the "ENTER" button.

Note: The menu which contains the detailed system settings is accessible by entering the password through this screen as hitting "PRG" button.

System Information Screens



Local Supervisor System BOSS



Multiple Units can be connected BOSS for supervisory control

BOSS is a new local supervisor for multiple unit systems. Multiple units can be connected BOSS for supervisory control. Web interface can be accessed by smartphone, tablet and PC. It supports all browsers. Modbus RTU, Modbus TCP/IP, Bacnet protocols are supported.

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