MEET THE DIFFERENCE OF OUR AIR CONDITIONING TECHNOLOGIES AND SOLUTIONS!

CoolAer
HEATING & COOLING SYSTEMS

PRODUCT CATALOGUE

Precision Controlled Air Conditioning Systems	Cooling Systems	Heat Pumps
Indirect Adiabatic Cooling Systems	Panel Air Conditioners	Free Cooling Box

www.coolaer.com.tr

MEET THE DIFFERENCE OF OUR HEATING, COOLING AND AIR CONDITIONING TECHNOLOGY AND SOLUTIONS!

CoolAer Air Conditioning Systems As a manufacturer of Heating, Cooling and Air Conditioning systems, we design and produce innovative heating and cooling solutions with a focus on renewable, sustainable energy, high performance and reliability. Our mission is to create a seamless product development, technical support, installation, maintenance and after-sales service process, increase the deployment of renewable energy and provide effective business value for our customers.

WE ARE A MANUFACTURER COMPANY, FOUNDED IN 1979, TAKING PART IN THE DEFENSE AND ADVANCED TECHNOLOGY SECTORS AND OFFERING SOLUTIONS IN THE FIELD OF ENERGY.

As CoolAer, we design and manufacture special products for data center and industrial cooling and air conditioning needs, while meeting the needs of our customers by making use of R&D studies in the field of data center, world-class test laboratories, production equipment and more than 20 years of experience.

AS COOLAER AIR CONDITIONING SYSTEMS, WE OFFER SOLUTIONS AND SERVICES:

- Precision Controlled Air Conditioning Systems
- Indirect Adiabatic Air Conditioning Systems
- Cooling Systems
- Heat Pumps
- Panel Air Conditioners
- Free Cooling Box

CONTENT

Precision Controlled Air Conditioning Systems 05-27

- Precision Controlled Air Conditioning with DX-Gas System
- CW-Water System Precision Air Conditioner

In-Row Cooling Units 28-36

- DX Gas (Refrigerant R410A) Based In-Row Refrigeration Unit
- Water Based In-Row Cooling Unit

Indirect Adiabatic Air Conditioning Systems 37-44

- Adiabatic

Cooling Systems 45-93

- Air Cooled Chiller
- Water Cooled Chiller

Heat Pumps 94-107

- Air Source Heat Pump
- Water Source Heat Pump

Panel Air Conditioners 108-119

- Indoor Panel Air Conditioner
- Outdoor Panel Air Conditioner
- Ceiling Type Panel Air Conditioner (2.000 W and 4.000 W)
- Panel Air Conditioner with Outdoor Unit (Split Type)

Free Cooling Box 120-123

- Free Cooling Box

PRECISION CONTROLLED AIR CONDITIONING SYSTEMS

LABORATORY

ELECTRICAL ROOM

HOSPITAL

DATA CENTER

ADX

Precision Controlled Air Conditioning (ADX)

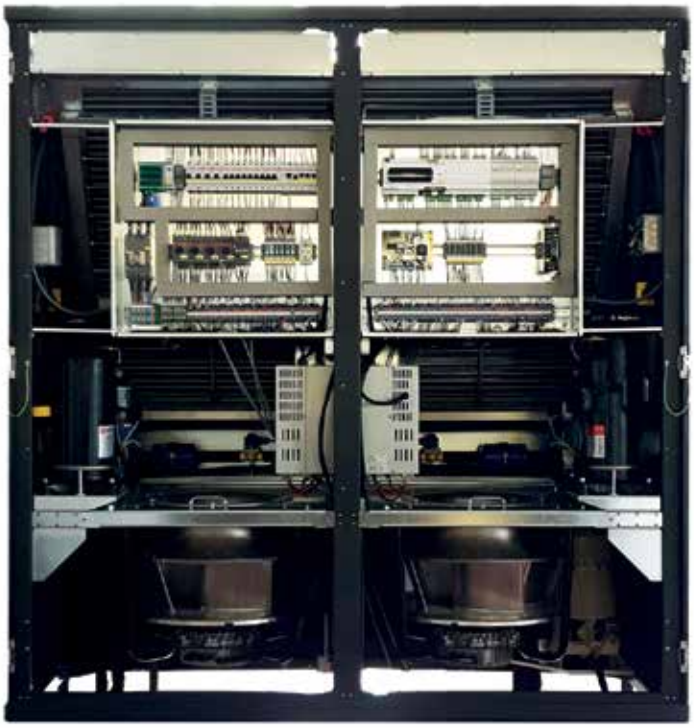
Cooling Capacity (up to 7-120kW)

Precision Controlled Air Conditioning (ADX)

It is an industrial type, high-efficiency precision controlled air-conditioning device used in applications where precision-controlled air conditioning is required to control temperature and humidity. Precision air conditioners designed on the basis of operation 365 days and 24 hours a year, provide the necessary temperature, humidity and filtration of dust in the environment, increasing the operation life and efficiency of electronic equipment.

With its modular structure, CoolAer Precision Controlled Air Conditioning is designed for easy installation by considering various needs including raised floors, lowered ceilings and air duct systems. It has a cooling capacity ranging from 7-120kW and performs precision cooling.

- Cooling capacity range from 7 kW to 120 kW
- R410A refrigerant specification
- Teamwork with up to 8 devices
- Intervention of all equipment from the front (Except device with option)
- Filter and fan control manager
- Sliding fan and filter structure
- Operation option according to pressure difference and temperature principle
- Suitable design for raised floor, low ceiling and air duct systems
- High efficiency system with direct free cooling and adiabatic cooling mode option



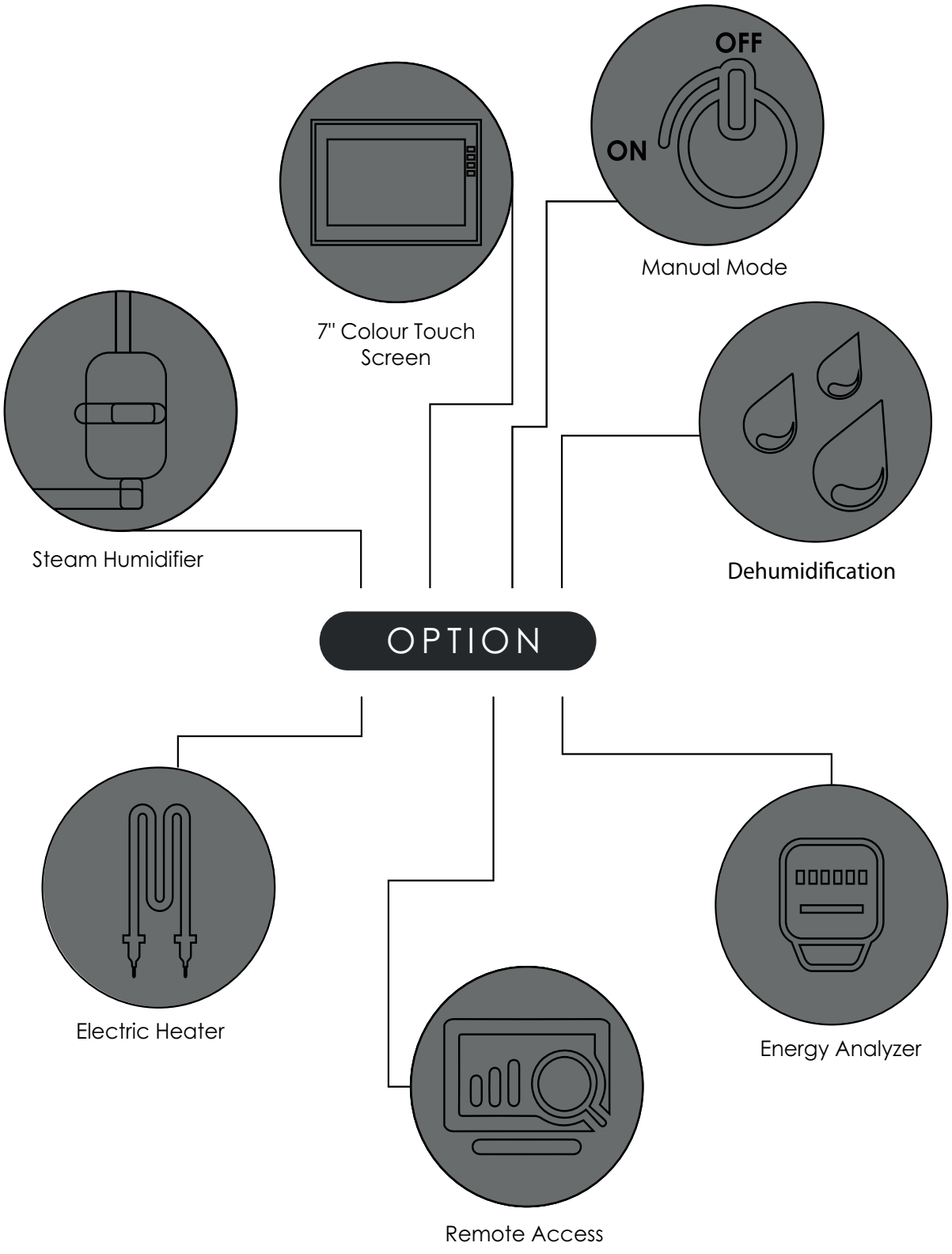
CoolAer precision air conditioners are designed to serve at the optimum point according to ASHRAE standards.

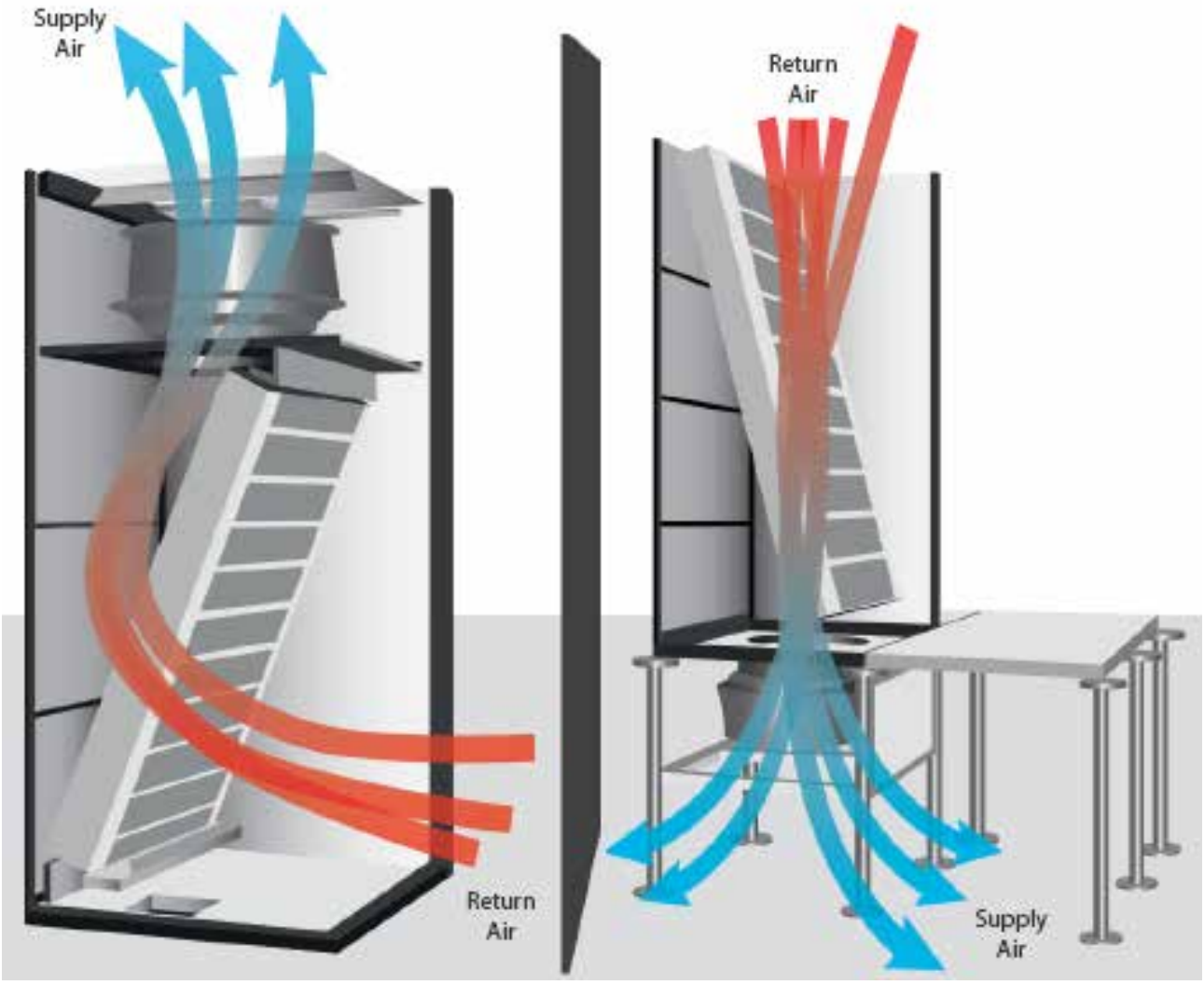
CoolAer

PRECISION CONTROLLED AIR CONDITIONING

PRODUCT SPECIFICATIONS

OPTIONAL PRODUCTS





Top Blow

Bottom Blow

PRECISION CONTROLLED AIR CONDITIONING

Unit Configuration	(ADX)
Primer Coat and 2 Layers Electrostatic Painted	●
Electrostatic Powder Coated Galvanized Case	●
EC Radial Fan with Back Curved Blades	●
G4 Class Air Filter	●
Temperature at Return Air Inlet	●
Hermetic Scroll Compressor	●
Vibration Absorber for Compressor	●
DX Based Heat Exchanger	●
Water Based Heat Exchanger -	-
Temperature Sensor at Supply Air Inlet	●
Fan Status Information Switch	●
Control Panel	●
Microprocessor Control	●

Note: "●"standard configuration, "○"option available, "—" option not available

PRECISION CONTROLLED AIR CONDITIONERS

Unit Configuration	(ADX)
Outdoor Unit Fan Speed Control	●
High Pressure Sensor	●
Pressure Switch for High/Low Pressure Protection	●
BacNET	●
Modbus TCP/IP	○
Modbus RTU	●
Externally Balanced Thermostatic Expansion Valve	○
Liquid Line Solenoid	●
Dryer (Filter Dryer)	●
Liquid Tank	●
Sight glass	●
Motorized 3 Way Valve	●
Phase Protection Relay	●
Energy analyzer	-
Current Transformer	●
Manual Operation Mode (Device Continues to Operate When PLC Fails)	○
Electrical Heater	○
Steam Humidifier	○
Web Interface	○
SNMP Module	○
Air Pressure Switch for Filter Alarm Information	●
Motorized Damper in Top Blow Devices	○
Plenum Box in Top Blow Devices	○
Air Plenum in Bottom Blowing Devices	○
Non-Return Air Damper in Top Blow Devices	○
Adjustable Leg Installation Plinth Stand	○
Water Level Switch	●
Water Leak Alarm Kit	○
Mail Message Module	○
Electronic Expansion Valve	○
Free Cooling Kit (Free Cooling Box Kit)	○
Automatic Transfer Switch (ATS)	○
Air Shutter for Supply Air	○
Air Valve for Return Air	○
Gooseneck And Air Direction Louver	○
Remote On-Off (Dry Contact)	●
Remote On-Off (Via Web Interface)	○
Team work	○

Note: "●"standard configuration, "○"option available, "—" option not available

Model		SX010 S	SX019 S	SX025 S	SX033 S	SX038 S	SX043 S	SX048 S	SX058 S
Power supply	V/ph/Hz	400/3+N/50							
Performance									
Gross Cooling Capacity [1]	kW	11,13	19	25,1	34,2	37,8	42,9	47,55	57,18
Sensible Cooling Capacity [1]	kW	10,51	17,7	23,5	31,9	35,2	40	44,5	53,7
SHR		1							
EER		3,52	3,38	3,45	3,61	3,48	3,54	3,59	3,70
Capacity Control		On / Off							
Minimum Capacity	%	100	100	100	100	100	100	100	100
Refrigerant									
Type		R 410A							
Control		Thermostatic Expansion Valve							
Circuit	N°	1							
Compressor									
Compressor Type		On / Off							
Number of Compressors	N°	1							
Comp. Consumption	kW	2,25	3,85	5,21	6,42	7,51	8,41	9,33	11,05
Fan									
Fan Type		EC Backward Curved Centrifugal Fan							
Number of Fans	N°	1	1	1	1	1	2	2	2
Air Flow	m³/h	5000	8500	10000	11700	12200	13800	15600	17600
Power Consumption	kW	0,73	1,3	1,6	2,4	2,6	2,9	3,05	3,48
Noise Level									
Sound Power	dBA	53	55	55	57	57	57	59	61
Indoor Unit Dimensions									
Weight	kg	202	295	334	368	442	552	632	691
Width	mm	675	950	950	950	1250	1250	1800	1800
Depth	mm	728	890	890	890	890	890	890	890
Height	mm	1970	1970	1970	1970	1970	1970	1970	1970
Filter									
Type		G4							
Device Electric Information									
Nom. Operating Consumption	kW	3,44	5,7	8	10,1	11,15	13,23	14,48	17,73
Nom. Operating Current	A	7,56	11,2	15,02	18,93	21,25	25,7	29,82	36,26
Max. Operating Current	A	14,1	17,42	26,62	28,9	32,3	42,5	47,9	51,9
Outdoor Unit									
Model		CFH1112	CFH1122	CFH2129	CFH2137	CFH2143	CFH3148	CFH3154	CFH3165
Air Flow	m³/h	5900	8350	11500	14000	15500	21000	22300	24000
Outdoor Unit Dimensions									
Weight	kg	39	59	73	73	85	103	103	135
Width	mm	900	1100	1530	1530	1750	2150	2150	2550
Depth	mm	400	450	530	530	500	500	500	500
Height	mm	800	1100	940	940	900	1000	1000	1400
Humidifier									
Humidifier Type		Steam Humidifier							
Number	°N	1							
Capacity	kg/h	8/15							
Power consumption	kW	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25
Maximum Operating Current	A	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1
Power Input	V/ph/Hz	380/3/50							
Electric Heater									
Level		3							
Capacity	kW	4,5	9	9	13,5	18	18	27	27
Maximum Operating Current	A	6,8	13,6	13,6	20,5	27,3	27,3	40,9	40,9
Power Input	V/ph/Hz	380/3/50							

COOLAER ADX DX – S SERIES

ON/OFF COMPRESSOR –CONDENSER DX

CoolAer

Model		DX042 S	DX053 S	DX057 S	DX065 S	DX077 S	DX082 S	DX090 S	DX113 S
Power supply	V/ph/Hz	400/3+N/50							
Performance									
Gross Cooling Capacity [1]	kW	42,25	51,74	57,4	65,4	78,2	82,1	88,6	113,38
Sensible Cooling Capacity [1]	kW	40	48,8	53,8	60,8	73,2	78	83,4	105,4
SHR		1							
EER		3,48	3,65	3,67	3,49	3,65	3,55	3,48	3,47
Capacity Control		On / Off + On / Off							
Minimum Capacity	%	50	50	50	50	50	50	50	50
Refrigerant									
Type		R 410A							
Control		Thermostatic Expansion Valve							
Circuit	N°	2							
Compressor									
Compressor Type		On / Off							
Number of Compressors	°N	2							
Comp. Consumption	kW	9,1	10,44	11,06	12,8	15,06	16,48	17,54	22,4
Fan									
Fan Type		EC Backward Curved Centrifugal Fan							
Number of Fans	N°	2	2	2	2	2	2	2	3
Air Flow	m³/h	16000	17300	19000	22400	27200	28200	27600	33200
Power Consumption	kW	2,41	2,83	3,6	4,7	5	5,54	6,38	6,81
Noise Level									
Sound Power	dBA	61	61	63	63	65	65	67	69
Indoor Unit Dimensions									
Weight	kg	650	679	702	734	782	823	884	992
Width	mm	1800	1800	1800	1800	2300	2550	2550	2550
Depth	mm	890	890	890	890	890	890	890	890
Height	mm	1970	1970	1970	1970	1970	1970	1970	1970
Filter									
Type		G4							
Device Electric Information									
Nom. Operating Consumption	kW	12,51	14,37	15,86	18,75	21,56	23,38	25,74	31,31
Nom. Operating Current	A	24,3	29,52	32,12	38,46	44,74	47,94	52,54	65,85
Max. Operating Current	A	43,8	43,8	47,6	51,6	70,5	77,3	77,7	90,5
Outdoor Unit									
Model		CFH2126	CFH2131	CFH2133	CFH2139	CFH3146	CFH3148	CFH3152	CFH3165
Air Flow	m³/h	10500	12500	14000	14000	15500	21000	22500	24000
Outdoor Unit Dimensions									
Weight	kg	72	72	72	73	85	103	103	135
Width	mm	1400	1600	1400	1550	1750	2150	2150	2550
Depth	mm	470	470	470	500	500	500	500	500
Height	mm	1000	1000	1000	1000	900	1000	1000	1400
Humidifier									
Humidifier Type		Steam Humidifier							
Number	°N	1							
Capacity	kg/h	8/15							
Power consumption	kW	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25
Maximum Operating Current	A	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1
Power Input	V/ph/Hz	380/3/50							
Electric Heater									
Level		3							
Capacity	kW	18	18	27	27	36	36	48	48
Maximum Operating Current	A	27,3	27,3	40,9	40,9	54,5	54,5	72,7	72,7
Power Input	V/ph/Hz	380/3/50							

COOLAER ADX – SX D SERIES

INVERTER COMPRESSOR - DX CONDENSER

Device Electrical Information		SX010 D	SX019 D	SX025 D	SX033 D	SX038 D	SX043 D	SX048 D	SX058 D
Power supply	V/ph/Hz	400/3+N/50							
Performance									
Sensible Cooling Capacity [1]	kW	10,48	17,5	23,7	31,2	35,3	40	44,92	53,5
SHR		1	1	1	1	1	1	1	1
EER		3,38	3,33	3,44	3,36	3,31	3,36	3,39	3,36
Capacity Control		Inverter							
Minimum Capacity	%	25 ~100							
Refrigerant									
Fluid Type		R 410A							
Control		Electronic Expansion Valve							
Circuit	N°	1							
Compressor									
Compressor Type		Inverter							
Number of Compressors	N°	1							
Comp. Consumption	kW	2,37	3,95	5,28	6,88	8,08	9	10,2	12,45
Fan									
Fan Type		EC Backward Curved Centrifugal Fan							
Number of Fans	N°	1	1	1	1	1	2	2	2
Air Flow	m³/h	5000	8500	10000	11700	12200	13800	15600	17600
Power input	kW	0,73	1,3	1,6	2,4	2,6	2,9	3,05	3,48
Noise Level									
Sound Power	dBA	53	55	55	57	57	57	59	61
Weight and Dimensions									
Weight	kg	202	295	334	368	442	552	632	691
Width	mm	675	950	950	950	1250	1250	1800	1800
Depth	mm	728	890	890	890	890	890	890	890
Height	mm	1970	1970	1970	1970	1970	1970	1970	1970
Filter									
Type		G4							
Device Electrical Information									
Nominal Operation Power	kW	3,575	5,79	8,12	10,56	11,72	13,82	15,23	18,01
Nominal Operation Current	A	6,71	10,13	14,65	19,7	20,52	27,3	28,86	33,56
Maximum Operation Current	A	19	18,3	29,42	33,7	33,7	44,7	43,1	60,9
The Outdoor Unit									
Model		CFH1112	CFH1122	CFH2129	CFH2137	CFH2143	CFH3148	CFH3154	CFH3165
Air Flow	m³/h	5900	8350	11500	14000	15500	21000	22300	24000
Outdoor Unit Dimensions									
Weight	kg	39	59	73	73	85	103	103	135
Width	mm	900	1100	1530	1530	1750	2150	2150	2550
Depth	mm	400	450	530	530	500	500	500	500
Height	mm	800	1100	940	940	900	1000	1000	1400
Humidifier									
Humidifier Type		Steam Humidifier							
Number	°N	1							
Capacity	kg/h	8/15							
Electricity Consumption	kW	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25
Maximum Operation Current	A	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1
Power Input	V/ph/Hz	380/3/50							
Electric Heater									
Steps		3							
Capacity	kW	4,5	9	9	13,5	18	18	27	27
Maximum Operation Current	A	6,8	13,6	13,6	20,5	27,3	27,3	40,9	40,9
Power Input	V/ph/Hz	380/3/50							

COOLAER ADX – DX D SERIES

INVERTER COMPRESSOR - DX CONDENSER

Device Electrical Information		DX042 D	DX053 D	DX057 D	DX065 D	DX077 D	DX082 D	DX090 D	DX113 D
Power supply	V/ph/Hz	400/3+N/50							
Performance									
Sensible Cooling Capacity [1]	kW	41,96	50,1	54	62,3	73,3	78,8	85,6	105,1
SHR		1							
EER		3,60	3,70	3,54	3,32	3,44	3,42	3,47	3,39
Capacity Control		Inverter + Inverter							
Minimum Capacity	%	13 ~100							
Refrigerant									
Fluid Type		R 410A							
Control		Electronic Expansion Valve							
Circuit	N°	2							
Compressor									
Compressor Type		Inverter							
Number of Compressors	°N	2							
Comp. Consumption	kW	9,25	10,7	11,65	14,04	16,3	17,5	18,3	24,2
Fan									
Fan Type		EC Backward Curved Centrifugal Fan							
Number of Fans	N°	2	2	2	2	2	2	2	3
Air Flow	m³/h	16000	17300	19000	22400	27200	28200	27600	33200
Power input	kW	2,41	2,83	3,6	4,7	5	5,54	6,38	6,81
Noise Level									
Sound Power	dBA	61	61	63	63	65	65	67	69
Weight and Dimensions									
Weight	kg	650	679	702	734	782	823	884	992
Width	mm	1800	1800	1800	1800	2300	2550	2550	2550
Depth	mm	890	890	890	890	890	890	890	890
Height	mm	1970	1970	1970	1970	1970	1970	1970	1970
Filter									
Type		G4							
Device Electrical Information									
Nominal Operation Power	kW	12,65	14,63	16,5	19,99	22,87	24,96	26,73	33,21
Nominal Operation Current	A	21,64	24,81	27,1	36,04	40,86	45,64	48,26	58,83
Maximum Operation Current	A	48,6	55,6	55,6	68	81,8	93	93	120,1
The Outdoor Unit									
Model		CFH2126	CFH2131	CFH2133	CFH2139	CFH3146	CFH3148	CFH3152	CFH3165
Air Flow	m³/h	10500	12500	14000	14000	15500	21000	22500	24000
Outdoor Unit Dimensions									
Weight	kg	72	72	72	73	85	103	103	135
Width	mm	1400	1600	1400	1550	1750	2150	2150	2550
Depth	mm	470	470	470	500	500	500	500	500
Height	mm	1000	1000	1000	1000	900	1000	1000	1400
Humidifier									
Humidifier Type		Steam Humidifier							
Number	°N	1							
Capacity	kg/h	8/15							
Electricity Consumption	kW	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25
Maximum Operation Current	A	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1
Power Input	V/ph/Hz	380/3/50							
Electric Heater									
Steps		3							
Capacity	kW	18	18	27	27	36	36	48	48
Maximum Operation Current	A	27,3	27,3	40,9	40,9	54,5	54,5	72,7	72,7
Power Input	V/ph/Hz	380/3/50							

Device Electrical Information		DX042 DS	DX053 DS	DX057 DS	DX065 DS	DX077 DS	DX082 DS	DX090 DS	DX113 DS
Power supply	V/ph/Hz	400/3+N/50							
Performance									
Sensible Cooling Capacity [1]	kW	42,4	50	53,9	62,15	73,6	78,8	86,5	105,4
SHR		1							
EER		3,66	3,72	3,70	3,43	3,56	3,50	3,56	3,50
Capacity Control		On/Off + Inverter							
Minimum Capacity	%	13 ~100							
Refrigerant									
Fluid Type		R 410A							
Control		Electronic expansion valve							
Circuit	N°	2							
Compressor 1									
Compressor Type		On/Off							
Compressor Consumption	kW	4,55	5,22	5,53	6,42	7,54	8,24	8,77	11,2
Compressor 2									
Compressor Type		Inverter							
Compressor Consumption	kW	4,625	5,35	5,825	7,02	8,15	8,75	9,15	12,1
Fan									
Fan Type		EC Backward Curved Centrifugal Fan							
Number of Fans	N°	2	2	2	2	2	2	2	3
Air Flow	m³/h	16000	17300	19000	22400	27200	28200	27600	33200
Power input	kW	2,41	2,83	3,6	4,7	5	5,54	6,38	6,81
Noise Level									
Sound Power	dBA	61	61	63	63	65	65	67	69
Weight and Dimensions									
Weight	kg	650	679	702	734	782	823	884	992
Width	mm	1800	1800	1800	1800	2300	2550	2550	2550
Depth	mm	890	890	890	890	890	890	890	890
Height	mm	1970	1970	1970	1970	1970	1970	1970	1970
Filter									
Type		G4							
Device Electrical Information									
Nominal Operation Power	kW	13,556	15,67	17,07	20,652	23,82	26,376	28,28	34,31
Nominal Operation Current	A	23,09	27,18	29,46	37,27	42,83	46,8	50,42	62,34
Maximum Operation Current	A	49,3	52,8	54	63,6	80,8	90,8	91	111,1
The Outdoor Unit									
Model		CFH2126	CFH2131	CFH2133	CFH2139	CFH3146	CFH3148	CFH3152	CFH3165
Hava Debisi	m³/h	10500	12500	14000	14000	15500	21000	22500	24000
Dış Ünite Ölçüleri									
Weight	kg	72	72	72	73	85	103	103	135
Width	mm	1400	1600	1400	1550	1750	2150	2150	2550
Depth	mm	470	470	470	500	500	500	500	500
Height	mm	1000	1000	1000	1000	900	1000	1000	1400
Humidifier									
Humidifier Type		Steam Humid							
Number	°N	1							
Capacity	kg/h	8/15							
Electricity Consumption	kW	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25
Maximum Operation Current	A	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1
Power Input	V/ph/Hz	380/3/50							
Electric Heater									
Steps		3							
Capacity	kW	18	18	27	27	36	36	48	48
Maximum Operation Current	A	27,3	27,3	40,9	40,9	54,5	54,5	72,7	72,7
Power Input	V/ph/Hz	380/3/50							

COOLAER ADX-W

ADX – SX W SERIES ON/OFF COMPRESSOR - WATER CONDENSER

Model		SX010 W	SX019 W	SX025 W	SX033 W	SX038 W	SX043 W	SX048 W	SX058 W
Power supply	V/ph/Hz	400/3+N/50							
Performance									
Sensible Cooling Capacity [1]	kW	11,23	19,45	25,5	33,2	38,27	42,2	48,1	55,5
Power consumption	kW	2,7	4,68	6,29	8,22	9,43	10,32	11,73	13,7
EER		4,16	4,16	4,05	4,04	4,06	4,09	4,10	4,05
Capacity Control		On/Off							
Minimum Capacity	%	100							
Refrigerant									
Fluid Type		R 410A							
Control		Thermostatic Expansion Valve							
Circuit	N°	1							
Compressor									
Compressor Type		Scroll							
Number of Compressors	N°	1							
Comp. Consumption	kW	1,97	3,38	4,69	5,82	6,83	7,42	8,68	10,22
Fan									
Fan Type		EC Backward Curved Centrifugal Fan							
Number of Fans	N°	1	1	1	1	1	2	2	3
Air Flow	m³/h	5000	8500	10000	11700	12200	13800	15600	17600
Power input	kW	0,73	1,3	1,6	2,4	2,6	2,9	3,05	3,48
Water Cooled Heat Exchanger - Condenser									
Heat Exchanger Type		Brazed Plate Heat Exchanger							
Water Flow	m³/h	2,31	4,00	5,24	6,82	7,87	8,67	9,89	11,41
Water Pressure Drop	kPa	36	38	35	37	39	40	42	41
Operation Range									
Water Side (Condenser)	°C	20-60							
Water Circuit									
Connection Type		Threaded							
Pipe Diameter	inç	1 1/4"	2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
Noise Level									
Sound Power	dBA	53	55	55	57	57	57	59	61
Weight and Dimensions									
Weight	kg	202	295	334	368	442	552	632	691
Width	mm	675	950	950	950	1250	1250	1800	1800
Depth	mm	728	890	890	890	890	890	890	890
Height	mm	1970	1970	1970	1970	1970	1970	1970	1970
Humidifier									
Humidifier Type		Steam Humidifier							
Number	°N	1							
Capacity	kg/h	8/15							
Electricity Consumption	kW	6							
Maximum Operation Current	A	9,1							
Power Input	V/ph/Hz	380/3/50							
Eletric Heater									
Steps		3							
Capacity	kW	4	4	6	6	6	9	9	9
Maximum Operation Current	A	6,1	6,1	9,1	9,1	9,1	13,6	13,6	13,6
Power Input	V/ph/Hz	380/3/50							

COOLAER ADX-W

ON/OFF COMPRESSOR - WATER CONDENSER

Model		DX042 W	DX053 W	DX057 W	DX065 W	DX077 W	DX082 W	DX090 W	DX113 W
Power supply	V/ph/Hz	400/3+N/50							
Performance									
Sensible Cooling Capacity [1]	kW	44,6	52,05	56,5	65,5	77,5	84,6	95,9	110,9
Power consumption	kW	10,55	12,21	13,46	16,34	18,66	20,38	22,22	27,25
EER		4,23	4,26	4,20	4,01	4,15	4,15	4,32	4,07
Capacity Control		On/Off + On/Off							
Minimum Capacity	%	50							
Refrigerant									
Fluid Type		R 410A							
Control		Thermostatic Expansion Valve					Electronic Expansion Valve		
Circuit	N°	2							
Compressor									
Compressor Type		Scroll							
Number of Compressors	N°	2							
Comp. Consumption	kW	8,14	9,38	9,86	11,64	13,66	14,84	15,84	20,44
Fan									
Fan Type		EC Backward Curved Centrifugal Fan							
Number of Fans	N°	2	2	2	2	2	2	2	3
Air Flow	m³/h	16000	17300	19000	22400	27200	28200	27600	33200
Power input	kW	2,41	2,83	3,6	4,7	5	5,54	6,38	6,81
Water Cooled Heat Exchanger - Condenser									
Heat Exchanger Type		Brazed Plate Heat Exchanger							
Water Flow	m³/h	9,17	10,70	11,61	13,46	15,93	17,39	19,71	22,79
Water Pressure Drop	kPa	37	38	36	36	39	40	38	40
Operation Range									
Water Side (Condenser)	°C	20-60							
Water Circuit									
Connection Type		Threaded							
Pipe Diameter	inç	2"	2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
Noise Level									
Sound Power	dBA	61	61	63	63	65	65	67	69
Weight and Dimensions									
Weight	kg	650	679	702	734	782	823	884	992
Width	mm	1800	1800	1800	1800	2300	2550	2550	2550
Depth	mm	890	890	890	890	890	890	890	890
Height	mm	1970	1970	1970	1970	1970	1970	1970	1970
Moisturizer									
Humidifier Type		Steam Humidifier							
Number	°N	1							
Capacity	kg/h	8/15							
Electricity consumption	kW	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25
Maximum Operation Current	A	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1
Power Input	V/ph/Hz	380/3/50							
Electric Heater									
Steps		3							
Capacity	kW	18	18	27	27	36	36	48	48
Maximum Operation Current	A	27,3	27,3	40,9	40,9	54,5	54,5	72,7	72,7
Power Input	V/ph/Hz	380/3/50							

COOLAER ADX-W

ON/OFF+INVERTER COMPRESSOR - WATER CONDENSER

CoolAer

Model		DX042 WDS	DX053 WDS	DX057 WDS	DX065 WDS	DX077 WDS	DX082 WDS	DX090 WDS	DX113 WDS
Power supply	V/ph/Hz	400/3+N/50							
Performance									
Sensible Cooling Capacity [1]	kW	44	51,9	56,5	65,5	77,3	84,6	94,9	110,8
Power consumption	kW	10,4	12,12	13,7	16,54	18,99	20,77	23,86	27,57
EER		4,23	4,28	4,12	3,96	4,07	4,07	3,98	4,02
Capacity Control		On/Off + Inverter							
Minimum Capacity	%	13 ~100							
Refrigerant									
Fluid Type		R 410A							
Control		Electronic Expansion Valve							
Circuit	N°	2							
Compressor 1									
Compressor Type		Scroll							
Compressor Consumption	kW	4,07	4,69	4,94	5,82	6,83	7,42	8,68	10,22
Compressor 2									
Compressor Type		Inverter							
Compressor Consumption	kW	3,92	4,6	5,16	6,02	7,16	7,81	8,8	10,54
Fan									
Fan Type		EC Backward Curved Centrifugal Fan							
Number of Fans	N°	2							3
Air Flow	m³/h	16000	17300	19000	22400	27200	28200	27600	33200
Power input	kW	2,41	2,83	3,6	4,7	5	5,54	6,38	6,81
Water Cooled Heat Exchanger - Condenser									
Heat Exchanger Type		Brazed Plate Heat Exchanger							
Water Flow	m³/h	9,04	10,67	11,61	13,46	15,89	17,39	19,51	22,77
Water Pressure Drop	kPa	37	38	36	36	39	40	38	40
Operation Range									
Water Side (Condenser)	°C	20-60							
Water Circuit									
Connection Type		Threaded							
Pipe Diameter	inç	2"	2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
Noise Level									
Sound Power	dBA	61	61	63	63	65	65	67	69
Weight and Dimensions									
Weight	kg	650	679	702	734	782	823	884	992
Width	mm	1800	1800	1800	1800	2300	2550	2550	2550
Depth	mm	890	890	890	890	890	890	890	890
Height	mm	1970	1970	1970	1970	1970	1970	1970	1970
Humidifier									
Humidifier Type		Steam Humidifier							
Number	°N	1							
Capacity	kg/h	8/15							
Electricity Consumption	kW	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25
Maximum Operation Current	A	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1
Power Input	V/ph/Hz	380/3/50							
Electric Heater									
Steps		3							
Capacity	kW	18	18	27	27	36	36	48	48
Maximum Operation Current	A	27,3	27,3	40,9	40,9	54,5	54,5	72,7	72,7
Power Input	V/ph/Hz	380/3/50							

COOLAER ADX-WD

WITH INVERTER COMPRESSOR - WITH WATER CONDENSER

Model		SX010 WD	SX019 WD	SX025 WD	SX033 WD	SX038 WD	SX043 WD	SX048 WD	SX058 WD
Power supply	V/ph/Hz	400/3+N/50							
Performance									
Sensible Cooling Capacity [1]	kW	11,23	19,45	25,5	33,2	38,27	42,2	48,1	55,5
Power consumption	kW	3,11	5,25	6,87	9,28	10,68	11,92	13,22	15,93
EER		3,61	3,70	3,71	3,58	3,58	3,54	3,64	3,48
Capacity Control		Inverter							
Minimum Capacity	%	25 ~100							
Refrigerant									
Fluid Type		R 410A							
Control		Electronic Expansion Valve							
Circuit	N°	1							
Compressor									
Compressor Type		Scroll							
Number of Compressors	N°	1							
Comp. Consumption	kW	2,38	3,95	5,27	6,88	8,08	9,02	10,17	12,45
Fan									
Fan Type		EC Backward Curved Centrifugal Fan							
Number of Fans	N°	1	1	1	1	1	2	2	2
Air Flow	m³/h	5000	8500	10000	11700	12200	13800	15600	17600
Power input	kW	0,73	1,3	1,6	2,4	2,6	2,9	3,05	3,48
Water Cooled Heat Exchanger - Condenser									
Heat Exchanger Type		Brazed Plate Heat Exchanger							
Water Flow	m³/h	2,31	4,00	5,24	6,82	7,87	8,67	9,89	11,41
Water Pressure Drop	kPa	36	38	35	37	39	40	42	41
Operation Range									
Water Side (Condenser)	°C	20-60							
Water Circuit									
Connection Type		Threaded							
Pipe Diameter	inç	1 1/4"	2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
Noise Level									
Sound Power	dBA	53	55	55	57	57	57	59	61
Weight and Dimensions									
Weight	kg	202	295	334	368	442	552	632	691
Width	mm	675	950	950	950	1250	1250	1800	1800
Depth	mm	728	890	890	890	890	890	890	890
Height	mm	1970	1970	1970	1970	1970	1970	1970	1970
Humidifier									
Humidifier Type		Steam Humidifier							
Number	°N	1							
Capacity	kg/h	8/15							
Electricity Consumption	kW	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25
Maximum Operation Current	A	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1
Power Input	V/ph/Hz	380/3/50							
Eletric Heater									
Steps		3							
Capacity	kW	4,5	9	9	13,5	18	18	27	27
Maximum Operation Current	A	6,8	13,6	13,6	20,5	27,3	27,3	40,9	40,9
Power Input	V/ph/Hz	380/3/50							

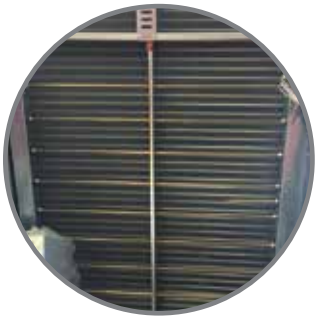
COOLAER ADX-WD

WITH INVERTER COMPRESSOR - WITH WATER CONDENSER

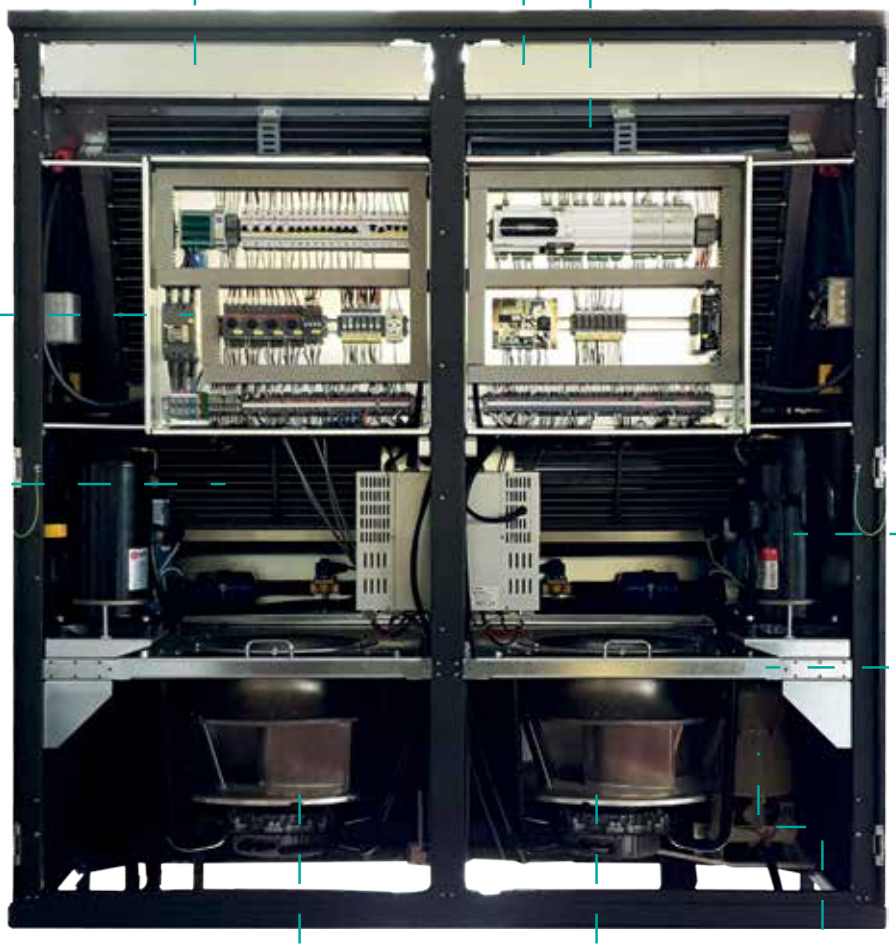
Model		DX042 WD	DX053 WD	DX057 WD	DX065 WD	DX077 WD	DX082 WD	DX090 WD	DX113 WD
Power supply	V/ph/Hz	400/3+N/50							
Performance									
Sensible Cooling Capacity [1]	kW	43,6	51,75	56,5	65,5	77,1	84,6	93,9	110,7
Power consumption	kW	10,25	12,03	13,92	16,74	19,32	21,16	23,98	27,89
EER		4,25	4,30	4,06	3,91	3,99	4,00	3,92	3,97
Capacity Control		Inverter + Inverter							
Minimum Capacity	%	13 ~100							
Refrigerant									
Fluid Type		R 410A							
Control		Electronic Expansion Valve							
Circuit	N°	2							
Compressor									
Compressor Type		Inverter							
Number of Compressors	N°	2							
Comp. Consumption	kW	7,84	9,2	10,32	12,04	14,32	15,62	17,6	21,08
Fan									
Fan Type		EC Backward Curved Centrifugal Fan							
Number of Fans	N°	2	2	2	2	2	2	2	3
Air Flow	m³/h	16000	17300	19000	22400	27200	28200	27600	33200
Power input	kW	2,41	2,83	3,6	4,7	5	5,54	6,38	6,81
Water Cooled Heat Exchanger - Condenser									
Heat Exchanger Type		Brazed Plate Heat Exchanger							
Water Flow	m³/h	8,96	10,64	11,61	13,46	15,85	17,39	19,30	22,75
Water Pressure Drop	kPa	37	38	36	36	39	40	38	40
Operation Range									
Water Side (Condenser)	°C	20-60							
Water Circuit									
Connection Type		Threaded							
Pipe Diameter	inç	2"	2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
Noise Level									
Sound Power	dBA	61	61	63	63	65	65	67	69
Weight and Dimensions									
Weight	kg	650	679	702	734	782	823	884	992
Width	mm	1800	1800	1800	1800	2300	2550	2550	2550
Depth	mm	890	890	890	890	890	890	890	890
Height	mm	1970	1970	1970	1970	1970	1970	1970	1970
Humidifier									
Humidifier Type		Steam Humidifier							
Number	°N	1							
Capacity	kg/h	8/15							
Electricity Consumption	kW	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25	6 / 11,25
Maximum Operation Current	A	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1	9,1 / 17,1
Power Input	V/ph/Hz	380/3/50							
Eletric Heater									
Steps		3							
Capacity	kW	18	18	27	27	36	36	48	48
Maximum Operation Current	A	27,3	27,3	40,9	40,9	54,5	54,5	72,7	72,7
Power Input	V/ph/Hz	380/3/50							

Sliding
G4 Filter

Electrical Heater



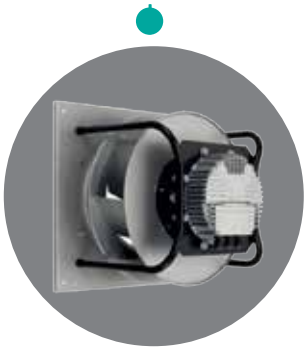
Compressor



Control
Panel

Sliding
Fan Design

Evaporador



Fan

Humidifier

ACW

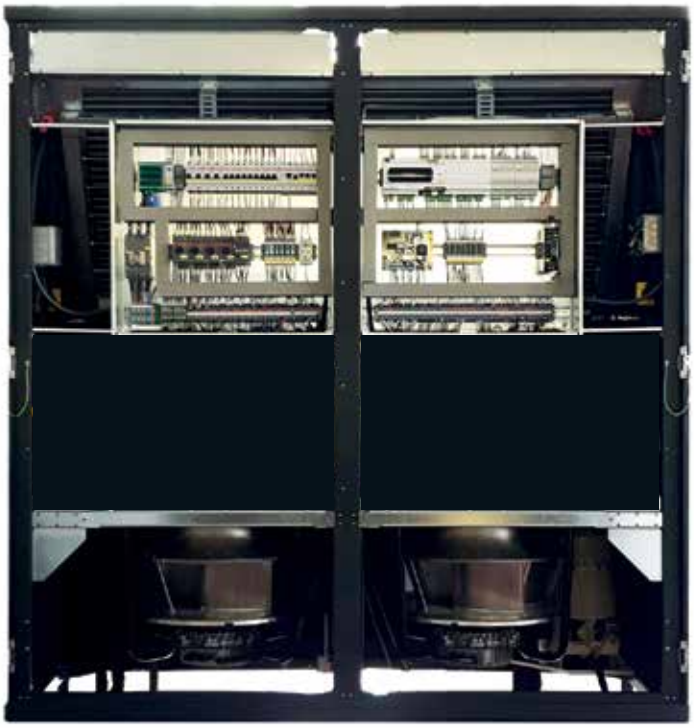
Precision Controlled Air Conditioning (ACW)

Cooling Capacity (up to 16-140kW)

Precision Controlled Air Conditioning (ACW)

In the 16kw and 140 kW capacity range, CoolAer ACW devices are fed efficiently by using chillers to provide efficient cooling of the indoor units.

- Cooling capacity range from 16kW to 140kW
- Powerful automation feature
- Teamwork with up to 8 devices
- Intervention of all equipment from the front
- Filter and fan control manager
- Sliding fan and filter structure
- Operation option according to pressure difference and temperature principle
- Suitable design for raised floor, low ceiling and air duct systems
- High efficiency system with direct freecooling and adiabatic cooling mode option

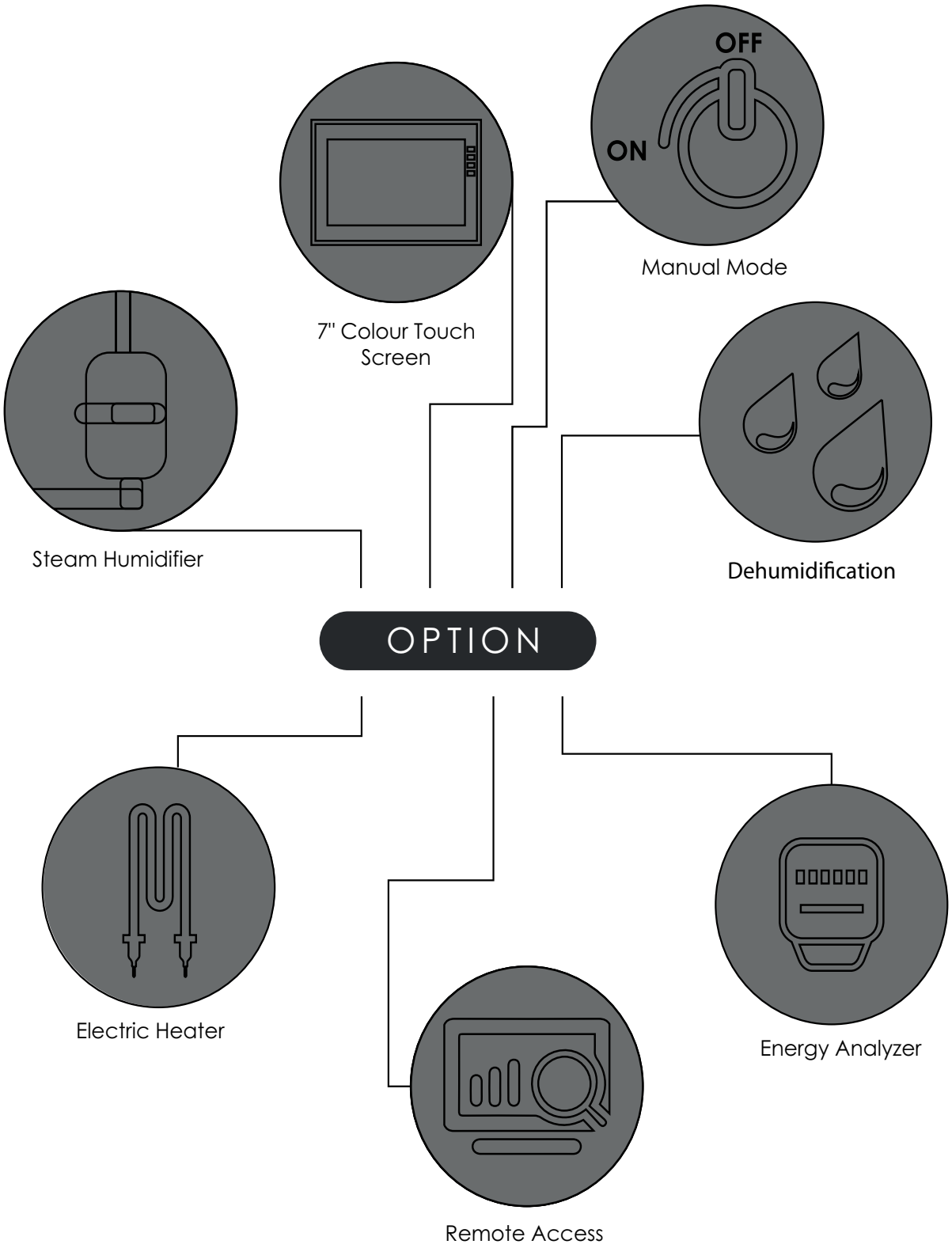


CoolAer precision air conditioners are designed to serve at the optimum point according to ASHRAE standards.

AIR CONDITIONING WITH PRECISE CONTROL

PRODUCT FEATURES

OPTIONAL PRODUCTS



COOLAER ACW

Modeller		ACW 16	ACW 25	ACW 30	ACW 35	ACW 40	ACW 50
Net Sensible Capacity [1]	kW	15,99	22,85	27,83	32,56	37,92	48,54
SHR		0,82	0,80	0,78	0,79	0,78	0,76
Water Flow	m³/h	2,75	3,93	4,79	5,60	6,52	8,35
Air Flow	m³/h	5000	6500	7500	9000	10000	11500
Humidifier							
Humidifier Type		Steam Humidifier					
Number	°N	1					
Capacity	kg/h	8	8	8	8	8	8
Electricity Consumption	kW	6	6	6	6	6	6
Maximum Operation Current	A	9,1	9,1	9,1	9,1	9,1	9,1
Power Input	V/ph/Hz	380/3/50					
Electric Heater							
Level		3					
Capacity	kW	4	6	6	6	9	9
Maximum Operation Current	A	6,1	9,1	9,1	9,1	13,6	13,6
Power Input	V/ph/Hz	380/3/50					
Dimensions							
Width	mm	950	950	1150	1150	1150	1700
Depth	mm	890	890	890	890	890	890
Height	mm	1970	1970	1970	1970	1970	1970
Weight	kg	280	310	338	365	380	556
Fan							
Number of Fans	°N	1					
Power Input	kW	0,581	1,09	0,9	1,37	1,89	2,21

Modeller		ACW 56	ACW 65	ACW 80	ACW 90	ACW 110	ACW 125	ACW 140
Net Sensible Capacity [1]	kW	55,27	64,68	77,86	94,43	104,56	117,22	134,6
SHR		0,76	0,83	0,79	0,76	0,76	0,77	0,78
Water Flow	m³/h	9,51	11,12	13,39	16,24	17,98	20,16	23,1512
Air Flow	m³/h	14000	21000	20000	23000	25000	29000	35000
Humidifier								
Humidifier Type		Steam humidifier						
Number	°N	1						
Capacity	kg/h	8						
Electricity Consumption	kW	6						
Maximum Operation Current	A	9,1						
Power Input	V/ph/Hz	380/3/50						
Electric Heater								
Level		3						
Capacity	kW	9	9	9	15	15	15	18
Maximum Operation Current	A	13,6	13,6	13,6	22,7	22,7	22,7	27,3
Power Input	V/ph/Hz	380/3/50						
Dimensions								
Width	mm	1700	2050	2050	2300	2500	2500	3100
Depth	mm	890	890	890	890	890	890	890
Height	mm	1970	1970	1970	1970	1970	1970	1970
Weight	kg	620	658	770	945	1034	1088	1127
Fan								
Number of Fans	°N	2	2	2	2	2	3	3
Power Input	kW	1,854	2,9	3	3,72	5,1	6	6,33

Inrow

Precision Controlled Air Conditioning (FC/SC)

FC10X, FC16X, FC32X, FC52X
(up to 10-52kW)

Precision Controlled Air Conditioning
CoolAer Inrow Indoor Unit /FC10X, FC16X, FC32X

They are precision-controlled air conditioners designed for cooling solution to Inrow data centers, providing active cooling for applications with high heat load per cabin, and can adjust their capacity according to the cooling need with inverter technology.

- It provides 10kW, 16kW and 32kW cooling capacity in 42U,
- 47U 300x1000 or 300x1200 cabinets
- User-friendly 7" color touch screen with graphic display as an option,
- Up to 8 teamwork,
- Co-aging feature,
- It provides maximum efficiency by making Capacity
- Control with inverter drive technology.
- High efficiency at full and part load,
- Optional temperature and humidity control,
- Preventing low blowing temperature in the dehumidification process with the optional 3-stage 3kW,
- 6kW and 9kW electric heater support,
- Maximum energy efficiency (EER>3),
- It has been specially developed for cold and hot aisle closure applications.
- No raised floor required.
- Variable speed fans with hot-swappable EC technology,
- Optionally, copper pipe connection possibility from the top or the bottom,
- Option to work according to temperature or pressure difference,
- Consumption calculation with energy analyzer option,
- While remote control support is provided with Modbus RTU in standard products, remote control is offered as an option with Web Interface, SNMP, Modbus TCP/IP, Bacnet, SMTP, NTP support.

YERLİ ÜRETİM

CoolAer

Precision Controlled Air Conditioning
CoolAer Inrow Indoor Unit / FC52X

- It provides 52kW cooling capacity in 42U, 47U 600x1000 or 600x1200 cabinet.
- User-friendly 7" color touchscreen with graphic display as an option,
- Up to 8 teamwork,
- Co-aging feature,
- It provides maximum efficiency by making Capacity Control with inverter drive technology between 22.5kW and 52kW
- High efficiency at full and part load,
- Optional temperature and humidity control,
- Preventing low blowing temperature in the dehumidification process with the optional 3-stage 9kW electric heater support,
- Maximum energy efficiency (EER>3),
- It has been specially developed for cold and hot aisle closure applications.
- No raised floor required.
- Variable speed fans with hot-swappable EC technology,
- Optionally, copper pipe connection possibility from the top or bottom,
- Option to work according to temperature or pressure difference,
- Consumption calculation with energy analyzer option,
- While remote control support is provided with Modbus
- RTU in standard products, remote control is offered as an option with Web Interface, SNMP, Modbus TCP/IP, Bacnet, SMTP, NTP support.

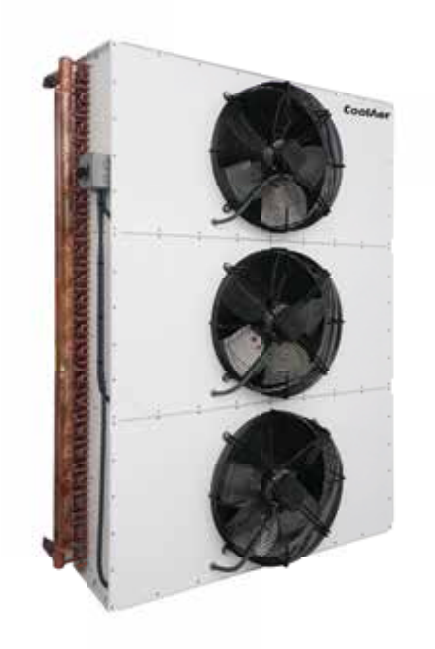
YERLİ ÜRETİM

TECHNICAL SPECIFICATIONS

CoolAer Inrow Indoor Unit			FC10X		FC16X		FC32X		FC52X	
Cooling capacity			**min.**	**max.**	**min.**	**max..**	**min.**	**max.**	**min.**	**max.**
Total Capacity[1]		kW	5,1	10	5,8	16	11	32,1	22,5	52
Total Capacity[1]		kW	5,1	10	5,8	16	11	32,1	22,5	52
SHR			1							
Toplam Kapasite[2]		kW	5,5	10,7	6,2	17,1	11,8	34,4	24,1	55,7
Sensible Capacity[2]		kW	5,5	10,7	6,2	17,1	11,8	34,4	24,1	55,7
SHR			1							
Total Capacity[3]		kW	5,9	11,5	6,7	18,4	12,8	36,8	25,9	59,5
Sensible Capacity[3]		kW	5,9	11,5	6,7	18,4	12,8	36,8	25,9	59,5
SHR			1							
Fan										
Fan Type			Radial						Axial	
Fan Total Air Flow		m³/h	3500		3500		5000		8850	
Total Power Consumption		Watt	280		300		660		720	
Number of Fans			3						3	
External Pressure Drop		Pa	20						20	
Noise Data										
Noise Level		dB(A)	55		60		61		63	
Air Filter										
Filter Model			G2							
Electric Data										
Power Supply		V-Ph-Hz	230/1/50-60		G2		230/1/50-60		230/1/50-60	
Cooling Data										
Refrigerant			R410A							
Number of Circuits			1							
Connecions										
Tube connections	Output line (ODS Ø)mm		12		12		16		28	
	Inlet line (ODS Ø)mm		19		19		22		19	
Humidifier										
Type			Elektrode							
Humidifier capacity		kg/h	8							
Power Input		kW	6							
Electric Heater										
Electric Heater Capacity		kW	3		4,5		6		9	
Number of Levels			3							
Dimensions and Weights										
Length		mm	300						600	
Depth (42U / 47U)		mm	1000/1200						1000/1200	
Height(42U / 47U)		mm	1982/2042						1982/2042	
Weight 42U (1000/1200)		kg	150 / 160		154/164		158/170		295/310	
Weight 47U (1000/1200)		kg	159 / 172		163/176		167/180		310/32	
Operating Temperature Range		23 °C %60 RH	50 °C %20 RH							

OUTDOOR UNIT
TECHNICAL FEATURES

CoolAer Inrow Indoor Unit			FC10X		FC16X		FC32X	
Cooling Capacity			**min.**	**max.**	**min.**	**max.**	**min.**	**max.**
Number of Compressors			1					
Compressor Power Consumption		kW	1,4	2,7	1,6	4,1	2,66	7,9
Fan								
Fan Type			Axial					
Fan Total Flow		m³/h	3500		5500		11000	
Total Power Consumption		kW	0,22		0,57		1,14	
Number of Fans			1		2		2	
Total EER								
Total Consumption		kW	3,3		5,1		9,71	
EER			3,16		3,25		3,3	
Connections								
Connection Tube	Output line(ODS Ø)mm		12		12		16	
	Inlet line(ODS Ø)mm		19		19		22	
Electric Connections								
Power Supply		V-Ph~Hz	380/3/50-60					
Noise Data								
Noise Data		dB(A)	54		61		64	
Dimensions and Weight								
Length		mm	1081		1084		1163	
Depth		mm	387		405		430	
Height		mm	729		1135		1541	
Weight		kg	115		150		188	
Operating Temperature Range			-20°C + 50°C					



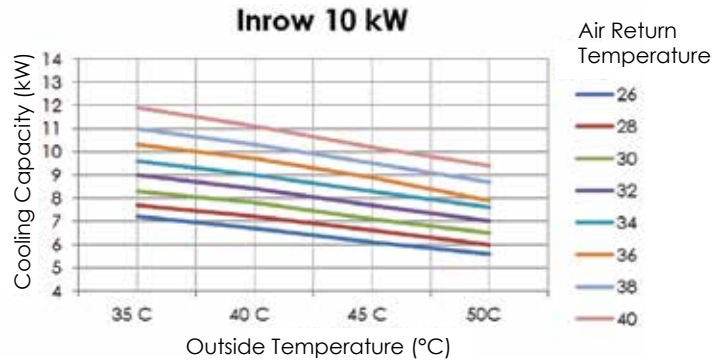
OUTDOOR UNIT
TECHNICAL FEATURES

CoolAer Inrow indoor Unit			**FC52X**
Fan			
Fan Type			Axial
Fan Total Flow		m^3/h	16500
Total Power Consumption		kW	1,7
Number of Fans			3
Connections			
Tube Connections	Output line(ODS Ø)mm		28
	Inlet line(ODS Ø)mm		19
Electrical Connections			
Power Supply		V-Ph~Hz	380/3/50-60
Noise Data			
Sound power		dB(A)	68
Dimensions and Weight			
Length		mm	1400
Depth		mm	310
Height		mm	1800
Weight		kg	170
Operating Temperature Range			-20°C + 50°C

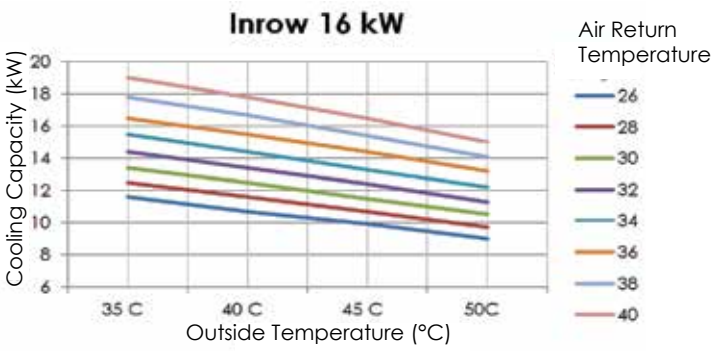
COOLING PERFORMANCE

GRAPHIC TABLE

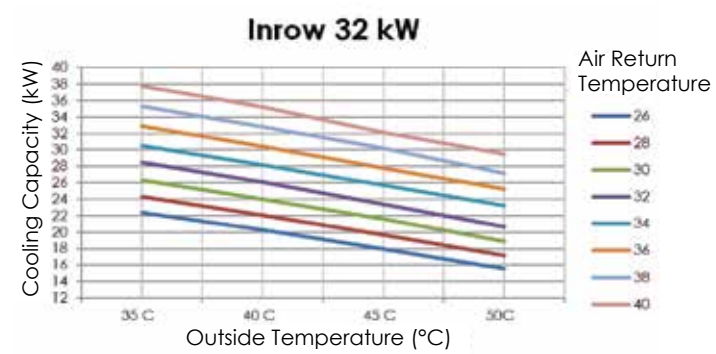
FC10X					
Cooling Capacity kW		Ambient Temperature			
		35 °C	40 °C	45 °C	50 °C
Return Air Temperature °C	26	7,2	6,7	6,1	5,6
	28	7,7	7,2	6,6	6
	30	8,3	7,8	7,1	6,5
	32	9	8,4	7,7	7
	34	9,6	9	8,3	7,6
	36	10,3	9,7	8,9	7,9
	38	11	10,3	9,5	8,5
	40	11,9	11,1	10,2	9,4



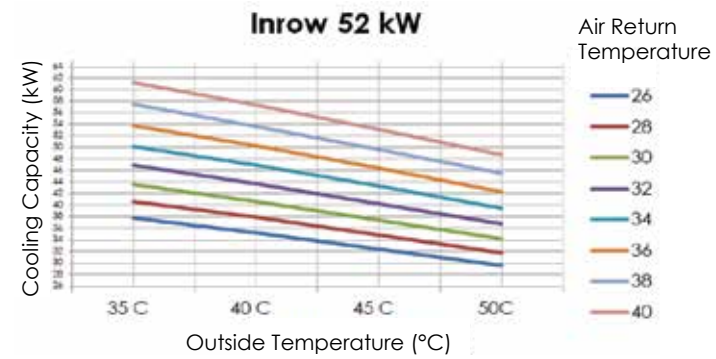
FC16X					
Cooling Capacity kW		Ambient Temperature			
		35 °C	40 °C	45 °C	50 °C
Return Air Temperature °C	26	11,6	10,7	9,9	9
	28	12,6	11,6	10,7	9,7
	30	13,4	12,5	11,5	10,4
	32	14,4	13,4	12,4	11,3
	34	15,5	14,4	13,3	12,2
	36	16,5	15,5	14,4	13,2
	38	17,8	16,7	15,4	14,1
	40	19	17,8	16,5	15



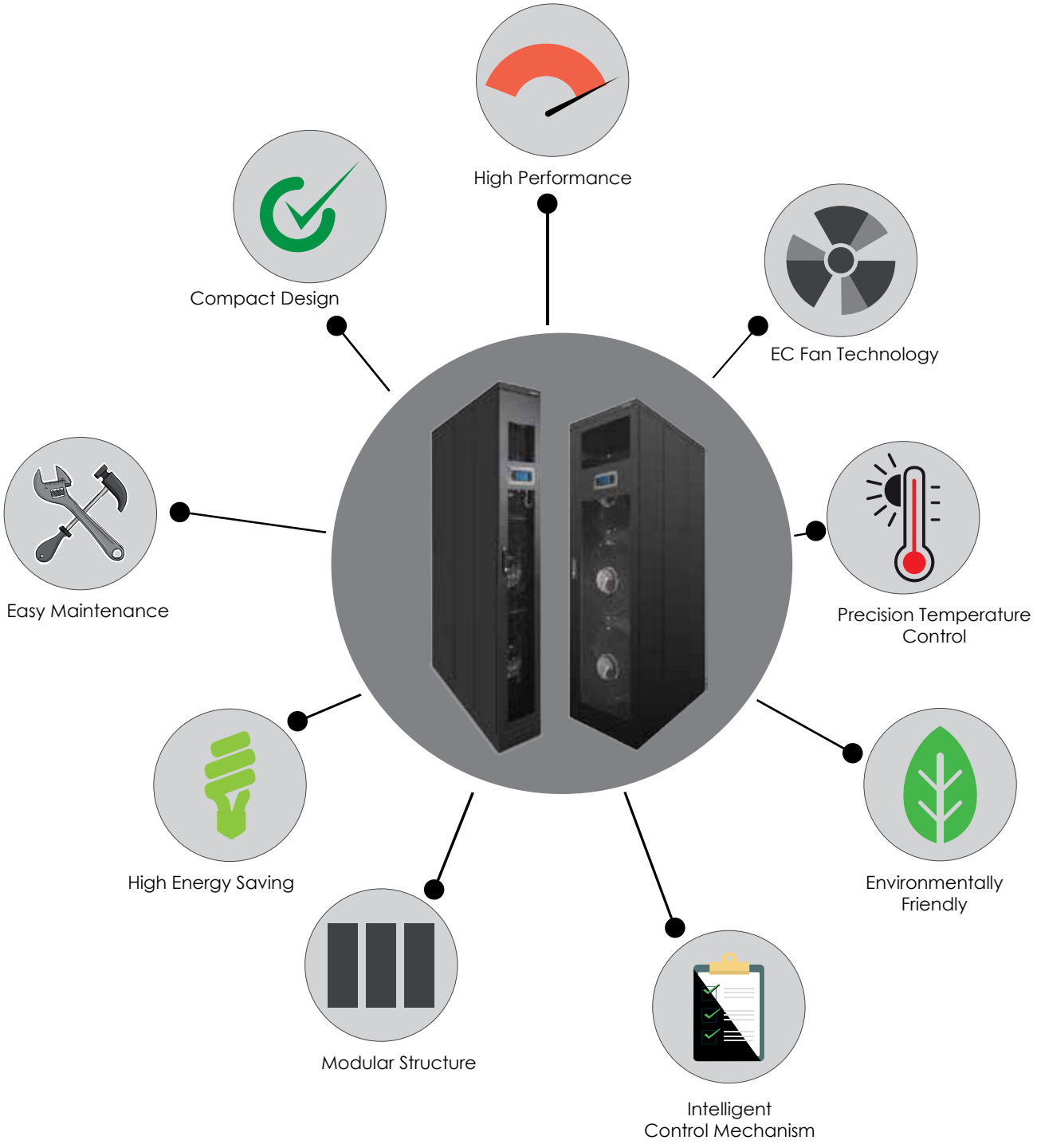
FC32X					
Cooling Capacity kW		Ambient Temperature			
		35 °C	40 °C	45 °C	50 °C
Return Air Temperature °C	26	22,4	20,3	18	15,6
	28	24,3	22,1	19,7	17,2
	30	26,3	24	21,6	18,9
	32	28,5	26,1	23,4	20,7
	34	30,5	28,2	25,7	23,2
	36	32,9	30,4	27,8	25,2
	38	35,3	32,8	30,2	27,2
	40	37,8	35,2	32,1	29,5



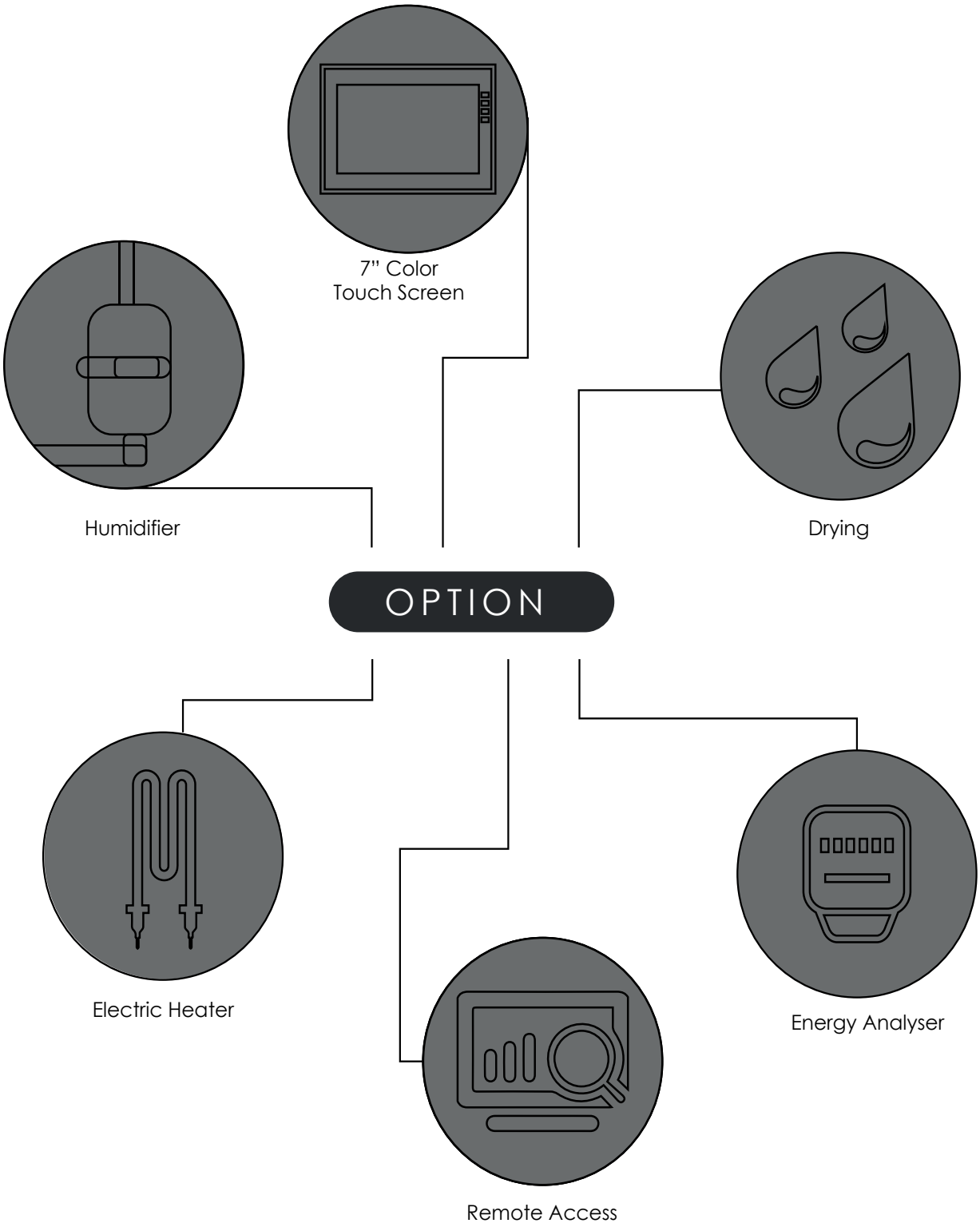
FC52X					
Cooling Capacity kW		Ambient Temperature			
		35 °C	40 °C	45 °C	50 °C
Return Air Temperature °C	26	37,8	35,2	32,4	29,5
	28	40,7	37,9	34,8	31,7
	30	43,6	40,7	37,4	34,2
	32	46,9	43,7	40,3	36,8
	34	50,2	46,9	43,3	39,5
	36	53,8	50,3	46,4	42,3
	38	57,5	53,7	49,7	45,5
	40	61,3	57,4	53,2	48,8



INROW COOL ER
PRODUCT FEATURES



OPTIONAL PRODUCTS



INDIRECT ADIABATIC COOLING SYSTEMS

Adiabatic

Cooling Capacity
(up to 50-250 kW)

ADIABATIC

EC FAN

Adiabatic basically means cooling by humidifying the air. The humidified air cools down and the desired area is cooled without using energy. Basically, the most efficient system is Adiabatic devices, since cooling is done without the use of electricity. If 100% fresh air taken from outside or, if desired, mixed air (free cooling) is insufficient to cool the environment, this air is humidified with a special spraying system and thus cooling is done using very little electricity. The efficiency ratio (EER value) of adiabatic devices is over 30 and is 10 times more efficient than existing systems.

- Special design and high efficiency adiabatic cooling Performance, hydrophilic adiabatic heat exchanger,
- Frost protection feature,
- Working down to -25 ° C,
- Tank system and water saving feature,
- Under normal conditions, fresh air fans save energy by working only at the rate needed to provide the total cooling capacity.
- In the worst case, fresh air fans can run at half the capacity of data center fans, capturing full cooling capacity. In this way, energy savings are achieved.
- Water hardness value measurement and drainage of water with high hardness value,
- Monoblock design,
- No screws are used on the device covers and easy access from each cover for service,
- Depending on the outside temperature and humidity, using the nozzle feed water only as needed and saving water,
- The energy efficiency rate can reach over 30. (EER> 30)
- PUE <1.05 energy saving can be achieved with high efficiency.
- Teamwork compatibility and the ability to work independently from each other,
- Ability to work according to the principle of pressure and temperature difference,

Counterflow Heat Exchanger

Within the CAN-IAC device, cooling takes place in a double plate counter flow heat exchanger with high energy efficiency. Proprietary plates made of polypropylene material are used in the heat exchanger. Inside these plates are channels through which primary air flow is provided. The primary airflow can be ambient air, recycled air, or a combination of the two. (Primary air: air return)

Benefits of Heat Exchanger

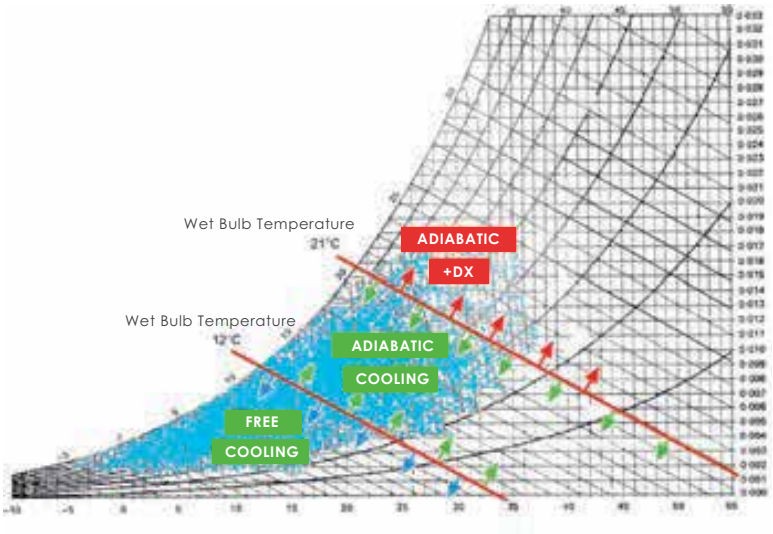
- Using polypropylene material counter flow heat exchanger,
- 100% corrosion protection
- Better heat transfer than all other IEC heat exchangers
- High evaporation rate thanks to the hydrophilic layer,
- Less water use for adiabatic cooling
- Most efficient adiabatic cooling by evaporation directly on the plates
- Cooling 100% of data center air using only 50% of outdoor air compared to indoor
- Saving fan power
- It is always hygienic and there are no bacterial problems.
- Minimizing moving parts
- It has been certified by Dutch TNO and German VDI 6022.
- Compliance with European standards
- Long lasting and more efficient

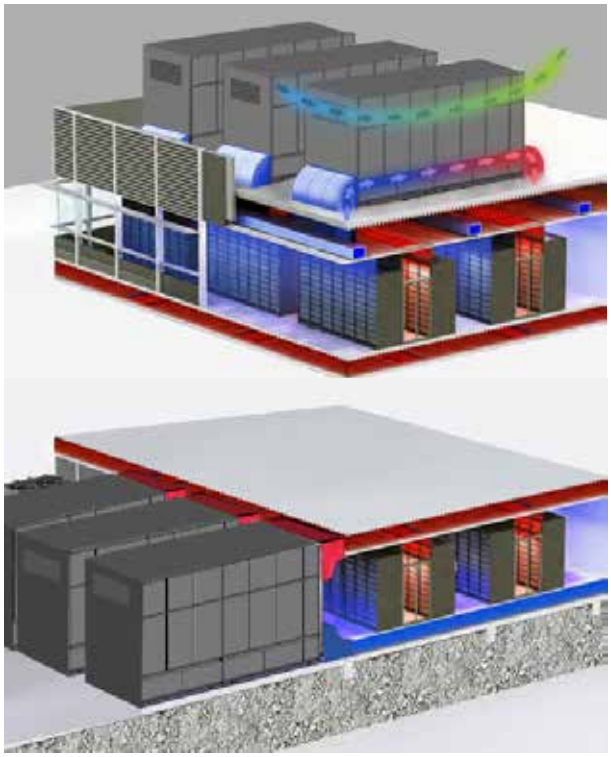
The surroundings of the heat exchangers are covered with hydrophilic material in order to increase the water retention and evaporation amount, that is, the cooling capacity. Outdoor air, which is secondary air, passes through these channels by holding onto hydrophilic surfaces.

CAN-IAC devices are designed appropriately in order to provide the desired capacity according to the temperature and pressure principle with the help of the controller without mixing the air in the heat exchanger.

Thanks to this Performance profile, CAN-IAC cooling systems comply with the new environmental standards set for data centers, the recommended maximum supply air temperature according to these standards is 27 °C, and outdoor air wet bulb temperature drops below 22 °C (dry bulb 35-40 °C in temperate climates) should reach the total cooling capacity without using DX.

Data center operators can reduce operating costs by saving up to 80% of the required energy. This is true for all temperate and cold climates in the world. The two crossed lines, wet-bulb 21°C (WB 21°C) and wet-bulb 12°C (WB 12°C), represent the estimated points of the operating ranges of the IAC device. The WB12 line shows the transition from freecooling to adiabatic cooling, while the WB 21 line shows the transition from adiabatic to DX cooling.
For example, when we consider that the supply air is 25°C below the WB 21 line, you can only reach the desired maximum capacity with adiabatic and freecooling cooling.
It can be seen that when CAN-IAC is used, there is no need for dx cooling in temperate climates (eg Europe).
This means less operating costs, less installation costs and, most importantly, lower consumption of both energy and water.





Roof Configuration

Outdoor air enters from the upper left part of the device, passes through the heat exchanger and exits from the upper floor of the right-hand side of the device. The hot air returning from the room enters from the lower right part of the device, passes through the heat exchanger in a straight line and is returned to the room from the lower left part of the device.

Wall Configuration

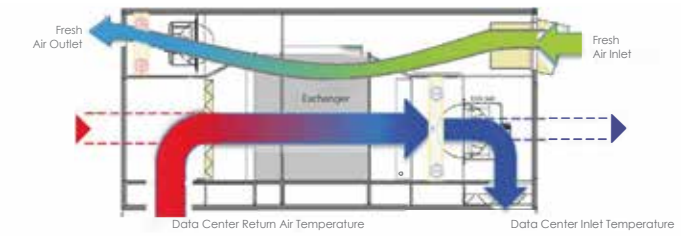
Outdoor air enters from the top of the device, passes through the plate heat exchanger and exits from the upper floor of the left side of the device.
The hot air returning from the IT room enters from the upper right part of the device and is sent back to the data center as cold after passing down the plate heat exchanger.

It complies with Green IT and energy saving requirements.

Energy Efficient Working Modes

1- Freecooling Mode (DRY-WET) Mode (up to -25°C ~ 8°C)

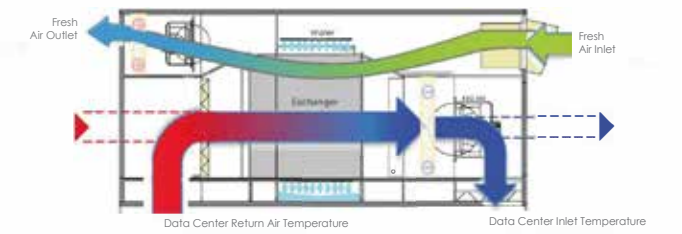
CAN-IAC devices do not need adiabatic cooling and dx cooling in freecooling mode. By utilizing the coldness of the outside air, the hot air in the datacenter room can be cooled. Specially produced adiabatic heat exchangers, which are the heart of the system, are used only for heat conduction in freecooling mode. The hot datacenter air is cooled by the coldness of the outside air and the heat conduction in the adiabatic exchanger with the help of fans.



2- Adiabatic Cooling (DRY-WET) Mode (down to -9°C ~ 35°C)

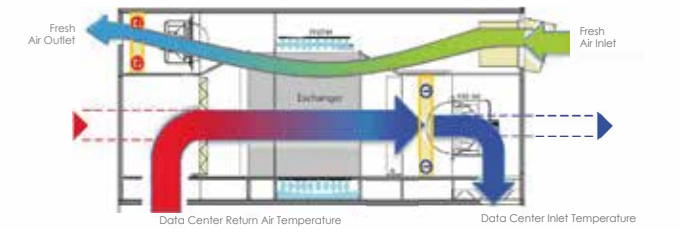
Adiabatic cooling mode is the cooling mode with the highest cooling efficiency depending on the outside temperature and humidity. If the outside temperature is suitable and the humidity is low, EER degrees above 30 can be seen. Cooling is carried out by the aqueous process. Only the energy consumption of the fans is calculated. Since the fresh air fan, which we call the process fan, will work proportionally according to the need, savings are also provided here.

Due to the design structure of Can-IAC devices, fresh air flow is used in adiabatic mode and maximum 50% of the data center air flow is used in rising outside air temperatures and can meet the need in this way. Thus, energy savings are also achieved on the fresh air side.



3- Adiabatic cooling mode combined with DX cooling (up to 30°C ~ 45°C)

Dx cooling mode is activated when the adiabatic mode is insufficient. Also, when there is a water cut (no mains water alarm is given), dx mode is activated because the cooling must continue. It is activated to supplement the maximum load that cannot be met by adiabatic cooling in outdoor environments where the outside temperature is too high or the humidity is high.



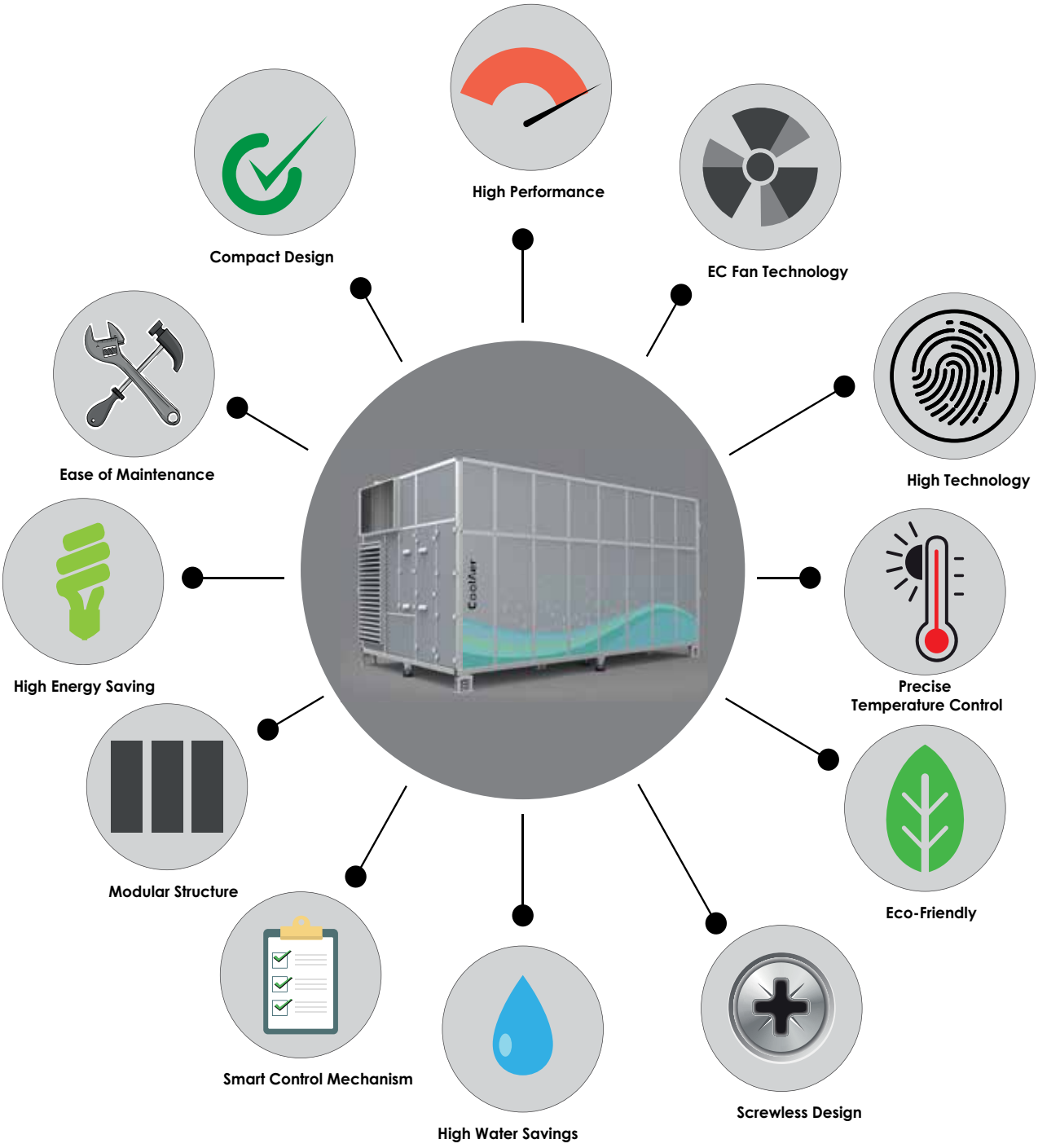
Control and Tracking

To cool IT systems efficiently and reliably, cooling equipment and controls must work in strict harmony with each other. Therefore, we carried out the Research and Development process of our control mechanism as CoolAer under our own roof, so that we can constantly update our hardware and software to ensure the reliability of all applications and the efficiency of IT system cooling at the highest standards.

Data Center Cooling Control Principle and Communication

- A data center can be cooled by multiple CAN-IACs in teamwork or independently.
- Cooling continues 24/7, continuously.
- Independent operation is guaranteed by controlling each device separately.
- The system is controlled using the unique sensors of each device, no sensors are shared, and there is no physical connection between device controls.
- The set points can be changed by the authorized engineer.
- Features Performance and data visualization by the data center operator.
- Preservation of parameters during software update
- Modbus RTU, CAN BUS embedded protocols (Modbus data point list editable)
- Freely configurable digital alarm inputs
- Integrated data logger
- Communication bus with internal Modbus component
- Supported BMS protocols: BACnet IP,
- BACnet MS/TP, Modbus TCP and LonWorks

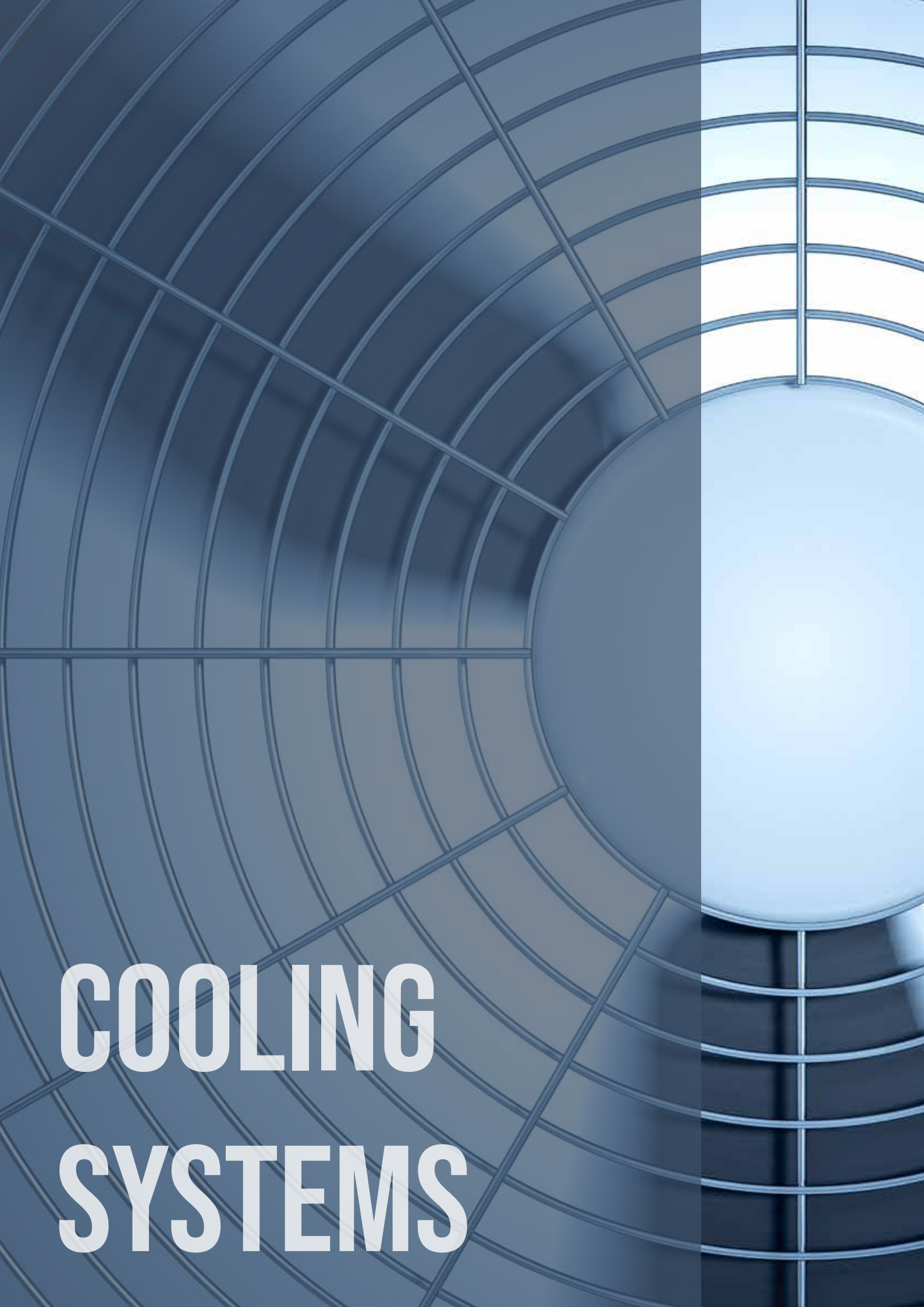
ADIABATIC
PRODUCT SPECIFICATIONS



CAN-IAC100

CAN-IAC200

	CAN-IAC						
	Operating Temperatures	°C	36-22	36-24	37-25	40-25	42-27
	DT	K	14	12	12	15	15
"CAN-IAC50 Cooling Capacity 30-75 kW"	Air Flow	m3/h	7.000	10.500	12.500	12.500	15.500
	Adiabatic Cooling Capacity	kW	30	41	50	60	75
	Static Pressure	Pa	146/156	219/250	262/309	265/311	330/407
	Water Consumption	kg/h	52,9	74,9	89,4	99,2	124
	Dx Cooling	kW	0% - 100%	max.	50	-	-
	Dimensions (WxHxL)	cm	200x280x500				
"CAN-IAC100 Cooling Capacity 60-150 kW"	Air Flow	m3/h	14.000	21.000	25.300	25.300	28.000
	Adiabatic Cooling Capacity	kw	60	80	100	120	140
	Pressure Drop	Pa	146/156	219/250	262/309	265/311	330/407
	Water Consumption	kg/h	106	150	180	188	254
	Dx Cooling	kW	0% - 80%	max	80	-	-
	Dimensions (WxHxL)	cm	400x280x500				
"CAN-IAC150 Cooling Capacity 90-220 kW"	Air Flow	m3/h	19.000	29.800	37.300	39.800	43.800
	Adiabatic Cooling Capacity	kw	90	120	150	200	220
	Pressure Drop	Pa	146/156	219/250	262/309	265/311	330/407
	Water Consumption	kg/h	125	181	231	286	327
	Dx Cooling	kW	0% - 80%	max	120	-	-
	Dimensions (WxHxL)	cm	570x385x350				
"CAN-IAC200 Cooling Capacity 120-300 kW"	Air Flow	m3/h	29.000	42.500	51.000	51.000	55.000
	Adiabatic Cooling Capacity	kW	120	160	200	240	280
	Pressure Drop	Pa	146/156	219/250	262/309	265/311	330/407
	Water Consumption	kg/h	210	274	341	380	403
	Dx Cooling	kW	0% - 80%	max	160	-	-
	Dimensions (WxHxL)	cm	710x385x350				
"CAN-IAC250 150-375 kw"	Air Flow	m3/h	36.000	50.000	63.500	63.500	65.000
	Adiabatic Cooling Capacity	kW	150	200	250	300	340
	Pressure Drop	Pa	146/156	219/250	262/309	265/311	277/329
	Water Consumption	kg/h	263	343	389	421	489
	Dx Cooling	kW	0% - 80%	max	200	-	-
	Dimensions (WxHxL)	cm	850x385x350				



COOLING SYSTEMS

CAW
CWW

Air Cooled Chiller (CAW)
Water Cooled Chiller (CWW)

Cooling Capacity (up to 25-1875 kW)

AIR COOLED
WATER CHILLER

Air Cooled Chiller

Cooling Capacity (up to 25-1300 kW)

CoolAer

Air Cooled Chiller

CoolAer air and water cooled chillers serve the industrial, IT and comfort ventilation sectors with its high efficiency product range. CoolAer water chillers use non-flammable fluids such as R410A, R134A, which do not harm the structures they are in contact with, and have high evaporation enthalpy. Compared to traditional coolers that are harmful to the ozone layer by rapidly increasing the concentration in the atmosphere, the new generation refrigerants used by CoolAer water chillers are more sensitive to the

environment. CoolAer water chillers are designed to operate outdoors and to give the cold water outlet temperatures in the capacity table. Complementary electronic components used in the cabinet according to the IP54 protection class are fully protected against solid objects and water splashes from all angles.

CoolAer Air Cooled Chiller (CAW) Standard Features

- High energy efficiency thanks to the gradual Capacity Control (25% - 100%) in the screw compressor chiller
- Over temperature, current, pressure protection
- Overcurrent protection with built-in thermal protection and low speed axial fan.
- Shell & Tube or brazed plate heat exchanger.
- Electronic Expansion Valve
- High and low pressure gauge,
- 2 different low pressure protection,
- Frost protection sensor,
- Reading the superheat value from the touch screen,
- Reading the low pressure value from the touch screen,
- Vibration absorbing feet
- Winter work kit,
- Soft starter
- Flow switch
- PLC
- Touch screen
- Master/slave mode up to 4 modules
- Modbus RTU
- Modbus TCP
- BACnet MS/TP
- BACnet IP
- CAN-bus
- Built-in web server

Energy Efficient Chiller

CoolAer chillers increase energy efficiency with optional features such as heat recovery, free cooling and adiabatic mode. CoolAer chillers are highly preferred due to the high comfort they provide, flexible application possibilities, and convenience during the project and operation phases.

Low Noise

CoolAer chillers are also available in low noise options. Compressors, fans and pumps are the only sources of noise. Compressors in chillers can be optionally soundproofed. Our products in this option work very quietly thanks to sound insulation.

Compressor

Scroll, inverter-scroll, screw and screw-inverter compressors used in CoolAer chiller products offer higher efficiency compared to devices in the same segment working with highly efficient and environmentally friendly refrigerant. Scroll compressors are connected to double circuit, tandem (double) or Trio (triple) connection according to capacity. The use of tandem and trio connection ensures very high efficiency at part load. In screw compressors, on the other hand, it provides high efficiency by working gradually 25%, 50%, 75%, 100% or proportionally.

Trio

Tandem

Low Speed Fans

Low-speed fans are used in CoolAer air-cooled chillers. The use of low speed fan reduces Noise Level and energy consumption. In the winter kit, a fan driver is integrated into the standard product and the fan speed is controlled for winter conditions and the system works smoothly.

Energy Saving with EC-Fans (Optional)

High efficiency EC Fans reduce both Noise Level and energy consumption and provide variable airflow at partial loads. Compared to traditional EC-Fans, operating costs are reduced by 15%, compared to plug-in fans by 25%. Even with remote condenser fans, the Noise Level is reduced by 10% when using EC technology, while energy consumption is reduced by as much as 45% compared to conventional condensers using AC technology.

Brazed Plate Heat Exchanger

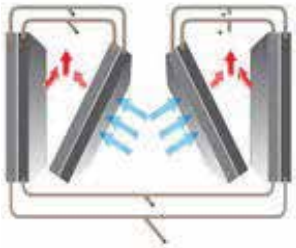
Brazed plate heat exchangers consist of a combination of stainless steel plate and copper solder. The brazed plate heat exchanger is covered with special thermal insulation to minimize the heat transfer between the heat exchanger and the environment. Insulation is made of polypropylene in cooling works and polyurethane in heating works. Thanks to this feature, the heat exchanger does not cause any emissions and does not consume any energy.

Pipe Type (Shell and Tube)

The shell&tube evaporator consists of a copper tube and a steel outer sheath. In addition, the evaporator has two separate refrigerant circuits and a chilled Water Circuit tuned to the reverse flow principle. It consists of two separate structures operating according to the counter current principle, the evaporator, the cooler and the cold Water Circuit.

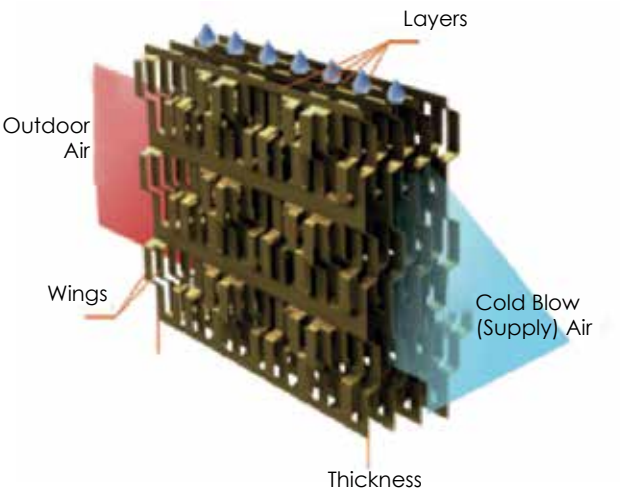
Condenser

With the condenser V geometry design, turbulences in the air flow are reduced and both refrigerant circuits are balanced. W type double condenser is generally preferred in Free Cooling structures. The air is cooled as it returns from the second condenser and the condenser reaches maximum efficiency.



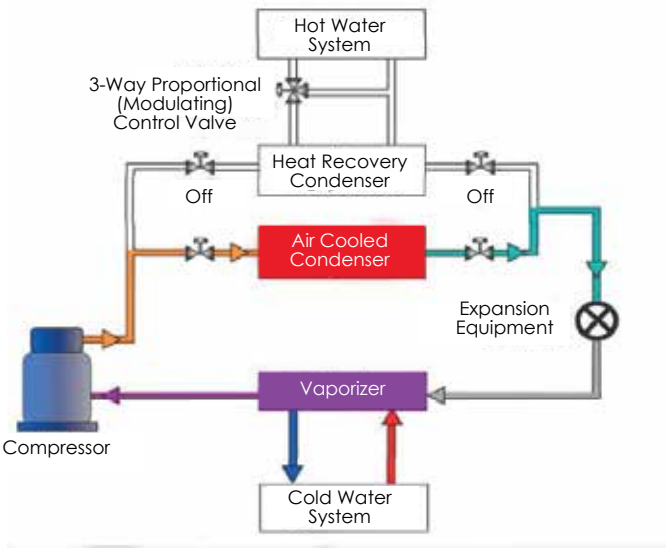
Adiabatic Mode

When the outside temperature is high, the adiabatic cooling system integrated with the mechanical (compressor) cooling module; It sprays water intermittently from special nozzles on the specially constructed, non-metallic mesh placed at the air inlet of the condenser coils. The water evaporating on the mesh creates an adiabatic cooling effect, lowering the temperature of the air entering the condenser. Thus, as the device operates with lower condensation pressure, energy consumption decreases and cooling capacity increases.



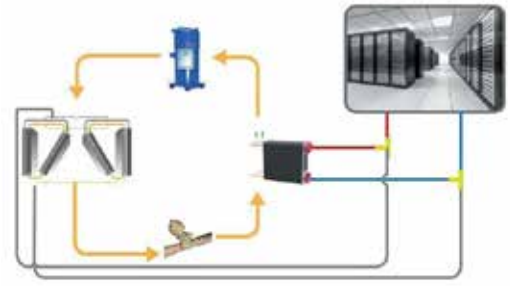
Heat Recovery Mode

Heat recovery systems are the most effective air conditioning systems against increasing energy costs today. These systems, which clean the air inside with low costs, recover the lost energy by providing heat transfer between the fresh air and the exhaust air outside. Thus, it increases the efficiency rate by increasing the work potential of the energy, in other words, the exergy input. Heat recovery devices, which can meet the required fresh air need by saving energy, are used for 12 months in summer, winter and transition seasons. It also makes a serious contribution to the business economy.



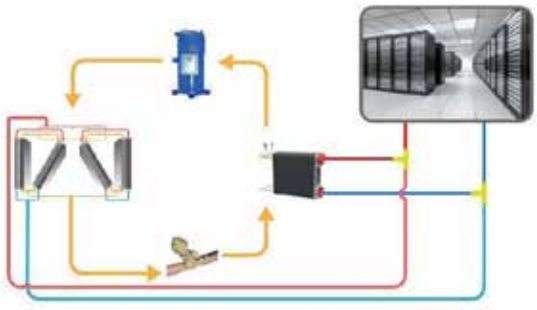
Free Cooling Mode (Optional) DX-Mode Compressor Operation

At high outdoor temperatures, the cooled Water Flow to the Free Cooler is blocked. All the cooling capacity is provided with the help of the compressor.



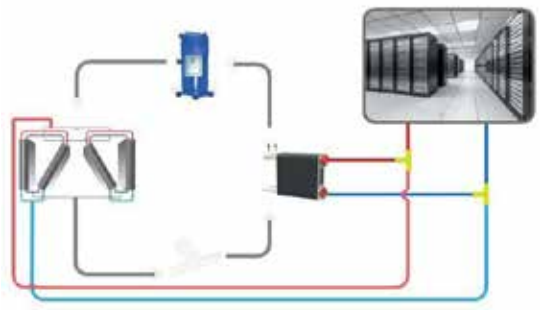
Mixed Mode

In cases where the outdoor temperature is lower than the water inlet temperature, the cooling capacity is partially provided by the Free Cooling exchanger. The remaining cooling capacity is provided by the compressor circuit.



Free Cooling

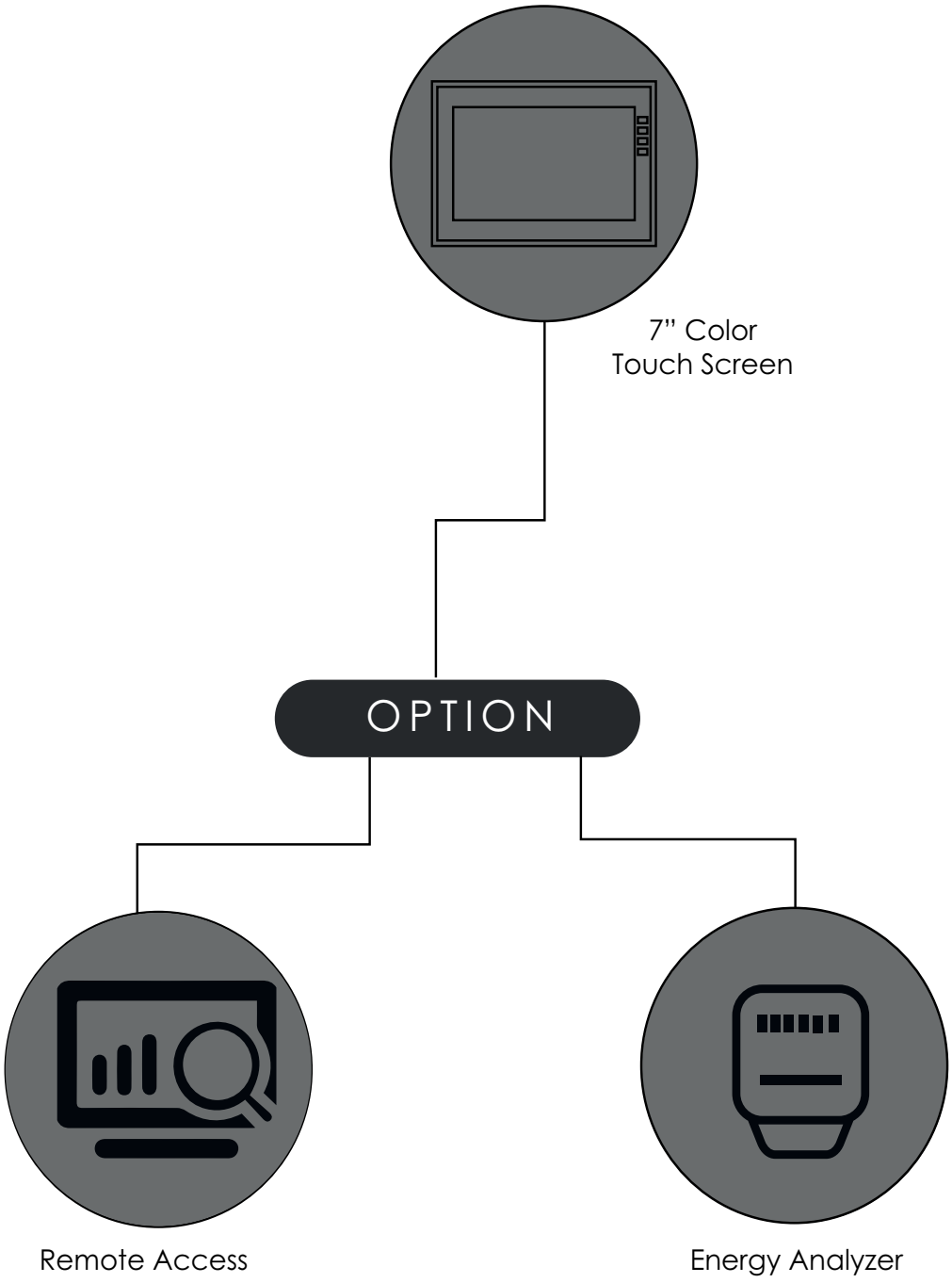
Depending on the water and outdoor temperature, the cooling water is only cooled with the help of outdoor heat and only the fans of the cooler are operating. In this way, energy consumption is greatly reduced and operating costs are minimized.



CoolAer

AIR COOLED WATER CHILLER GROUP
PRODUCT SPECIFICATIONS

OPTIONAL PRODUCTS



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Scroll Hermetic Compressor

Scroll hermetic compressors provide sealing between the precision-worked and high-speed rotating spiral structures, one of which is stationary and the other moving, with the oil absorbed together with refrigerant. Since the system capacity is a function of the scroll rotor speed and volume, it is classified as a positive displacement compressor. Scroll compressors have higher isentropic efficiency when the pressure ratio is between 2 and 4. It is preferred at high evaporation temperatures.

- Compact and robust design
- Scroll compressor with high EER
- Maximum reliability
- Low energy consumption with constant compression ratio
- Low sound level

SCROLL HERMETIC COMPRESSOR

Model		CAW 14S	CAW 23S	CAW 27S	CAW 32S	CAW 40S	CAW 55S	CAW 65S	CAW 80S	CAW105S	CAW130S
Power Supply	V/ph/Hz	380/3/50									
Performance											
Cooling Capacity [1]	kW	13,2	22,5	26,2	31,5	39,5	53,65	64,7	79,3	104,2	129,4
Power consumption	kW	4,306	6,766	7,836	9,106	12,42	16,34	19,52	26,84	32,51	43,66
EER		3,07	3,33	3,34	3,46	3,18	3,28	3,31	2,95	3,21	2,96
Capacity Control		On/Off									
Minimum Capacity	%	100									50
Refrigerant											
Type		R 410A									
Control		Thermostatic Expansion Valve					Electronic Expansion Valve				
Circuit	N°	1									2
Compressor											
Compressor Type		Scroll									
Number of Compressors	N°	1									2
Water Cooled Heat Exchanger											
Heat Exchanger Type		Brazed Plate Heat Exchanger									
Water Flow	m³/h	2,27	3,87	4,51	5,42	6,79	9,23	11,13	13,64	17,92	22,26
Water Pressure Loss	kPa	34	32	36	35	41	39	36	50	43	47
Air Cooled Heat Exchanger											
Heat Exchanger Type		Microchannel									
Fan											
Fan Type		AC Axial Fan									
Number of Fans	N°	2									4
Air Flow	m³/h	9400	10450		11000	16500		24000		36000	72000
Operation Range											
Water Circuit	°C	5 ~ 30									
Air Side	°C	-15 ~ 50									
Water Circuit											
Connection Type		Threaded Pipe									
Pipe Diameter	inç	1 ¼"	1½"	2"	2"	2"	2½"	2½"	2½"	3"	3"
Noise Level											
Sound Pressure Level	dBA	79	79	79	80	81	81	81	82	83	83
Weight and Size											
Weight	kg	136	223	262	310	388	534	631	776	1019	1261
Width	mm	1084	1163	1163	1163	1200	1200	1805	1805	1805	2300
Depth	mm	405	430	430	430	1750	1750	2296	2296	2296	2200
Height	mm	1135	1550	1550	1550	1670	1670	2160	2160	2196	2400

SCROLL HERMETIC COMPRESSOR

Model		CAW160S	CAW210S	CAW240S	CAW315S	CAW390S	CAW420S	CAW480S	CAW525S	CAW630S
Power Supply	V/ph/Hz	380/3/50								
Performance										
Cooling Capacity [1]	kW	159,5	208,4	239,25	312,6	388,2	416,8	478,5	521	625,2
Power consumption	kW	53,22	65,02	79,83	97,53	130,1	130,04	159,66	162,55	195,06
EER		3,00	3,21	3,00	3,21	2,98	3,21	3,00	3,21	3,21
Capacity Control		On/Off								
Minimum Capacity	%	50	50	33	33	17	25	17	20	17
Refrigerant										
Type		R 410A								
Control		Electronic Expansion Valve								
Circuit	N°	2								
Compressor										
Compressor Type		Scroll								
Number of Compressors	N°	2	2	3	3	6	4	6	5	6
Water Cooled Heat Exchanger										
Heat Exchanger Type		Brazed Plate Heat Exchanger								
Water Flow	m³/h	27,43	35,84	41,15	53,77	66,77	71,69	82,30	89,61	107,53
Water Pressure Loss	kPa	43	50	47	45	50	47	48	48	48
Air Cooled Heat Exchanger										
Heat Exchanger Type		Microchannel								
Fan										
Fan Type		AC Axial Fan								
Number of Fans	N°	4	4	6	6	8	8	12	10	12
Air Flow	m³/h	72000		108000		144000		216000	180000	216000
Operation Range										
Water Side	°C	5 ~ 30								
Air Side	°C	-15 ~ 50								
Water Circuit										
Connection Type		Flanged								
Pipe Diameter	inç	4"	4"	4"	5"	5"	5"	6"	6"	6"
Noise Level										
Sound Pressure Level	dBA	85	85	86	87	87	87	89	89	89
Weight and Size										
Weight	kg	1552	2037	2328	2418	3042	3276	3216	3518	4154
Width	mm	2300	2300	3300	3300	4300	4300	5300	5300	6300
Depth	mm	2200	2200	2200	2200	2200	2200	2200	2200	2200
Height	mm	2400	2400	2400	2400	2400	2400	2400	2400	2400

1 Cooling performance is calculated at 12/7°C water inlet/outlet temperature and 35 °C outdoor temperature.

CoolAer

Inverter Scroll Compressor

It controls the capacity by reducing the engine speed with the inverter drive. Although the Capacity Control range varies according to the capacity, it can be reduced to 20% in a single compressor.

- Compact and robust design
- High efficiency DC Inverter compressor
- Maximum reliability
- Proportional Capacity Control between 25% - 100%
- Low sound level

INVERTER SCROLL COMPRESSOR

Model		CAW 14D	CAW 23D	CAW 27D	CAW 32D	CAW 45D	CAW 55D	CAW 65D	CAW 75D	CAW 90D	CAW 110D	CAW 130D	CAW 150D
Power supply	V/ph/Hz	380/3/50											
Performance													
Cooling Capacity [1]	kW	13,2	22,5	26,2	31,5	45	55	65	75	90	110	130	150
Power Consumption	kW	4,54	7,35	8,44	10,11	14,32	18,22	20,35	25,1	30,58	37,58	41,36	47,9
EER		2,91	3,06	3,10	3,12	3,14	3,02	3,19	2,99	2,94	2,93	3,14	3,13
Capacity Control		With control Inverter (%25 ~ %100)											
Refrigerant													
Type		R 410A											
Control		Electronic Expansion Valve											
Circuit	N°	1								2			
Compressor													
Compressor Type		Scroll - Inverter											
Number of Compressors	N°	1								2			
Water Cooled Heat Exchanger													
Heat Exchanger Type		Brazed Plate Heat Exchanger											
Water Flow	m³/h	2,27	3,87	4,51	5,42	7,74	9,46	11,18	12,90	15,48	18,92	22,36	25,80
Water Pressure Loss	kPa	32	34	35	36	37	39	39	42	44	43	46	48
Air Cooled Heat Exchanger													
Heat Exchanger Type		Microchannel											
Fan													
Fan Type		AC Axial Fan											
Number of Fans	N°	2										4	
Air Flow	m³/h	9400	10450		11000	16500		24000		36000		72000	
Operation Range													
Water Side	°C	5 ~ 30											
Air Side	°C	-15 ~ 50											
Water Circuit													
Connection Type		Threaded											Flanged
Pipe Diameter	inç	1 1/4"	1 1/2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	3"	3"	3"	4"
Noise Level													
Noise Level	dBA	79	79	79	81	81	83	83	85	87	87	89	89
Weight and Size													
Weight	kg	265	310	323	405	512	631	724	755	842	910	995	1047
Width	mm	1084	1163	1163	1163	1200	1200	1805	1805	1805	1300	2300	2300
Depth	mm	405	430	430	430	1750	1750	2296	2296	2296	2200	2200	2200
Height	mm	1135	1550	1550	1550	1670	1670	2160	2160	2196	2400	2400	2400

1 Cooling performance is calculated at 12/7 °C water inlet/outlet temperature and 35°C outdoor temperature.

Screw Compressor

Since the screw compressor is cooled by the oil it has, the temperature of its working rotors never reaches extremely high temperatures. Screw compressors can work continuously due to these features. Screw type compressor is manufactured as air and water cooled. Screw compressors are used all over the world as the latest product of today's technology. Screw compressors, which do not need spring and suspension, operate at high rotational speeds. Vibration wedges are used to isolate high frequency vibrations. The only downside is that it is more expensive than reciprocating compressors.

- Screw compressors, which have a modern design, are designed to operate more quietly than reciprocating compressors of the same power.
- It is more efficient than reciprocating compressors.
- It can be increased to flow rates that are difficult to reach with screw compressors.
- It has a long-lasting working principle if it is properly maintained.

SCREW COMPRESSOR

Model		CAW 75W	CAW 105W	CAW 140W	CAW 165W	CAW 200W	CAW 235W	CAW 295W	CAW 350W	CAW 405W	CAW 465W	CAW 530W	CAW 570W	CAW 625W
Power supply	V/ph/Hz	380/3/50												
Performance														
Cooling Capacity [1]	kW	73,3	103,5	140,2	162,8	196,9	232	291	346	403	463	526	567	620
Power Consumption	kW	24,1	33,44	45,9	51	61,48	68,88	89,3	106,96	118,76	138,5	154,3	175	188
EER		3,04	3,10	3,05	3,19	3,20	3,37	3,26	3,23	3,39	3,34	3,41	3,24	3,30
Capacity Control		4 step (%25 - %50 - %75 - %100)												
Refrigerant														
Type		R 134A												
Control		Electronic Expansion Valve												
Circuit	N°	1												
Compressor														
Compressor Type		Screw												
Number of Compressors	N°	1												
Water Cooled Heat Exchanger														
Heat Exchanger Type		Brazed Plate Heat Exchanger												
Water Flow	m³/h	12,61	17,80	24,11	28,00	33,87	39,90	50,05	59,51	69,32	79,64	90,47	97,52	106,64
Water Pressure Loss	kPa	40	42	46	43	45	49	47	48	46	46	45	50	48
Air Cooled Heat Exchanger														
Heat Exchanger Type		Microchannel												
Fan														
Fan Type		AC Axial Fan												
Number of Fans	N°	2	2	4	4	4	4	6	8	8	10	10	10	12
Air Flow	m³/h	25000	36000	42000	50000	72000	72000	90000	100000	100000	144000	144000	162000	180000
Operation Range														
Water Side	°C	5 ~ 30												
Air Side	°C	-15 ~ 50												
Water Circuit														
Connection Type		Threaded		Flanged										
Pipe Diameter	inç	2 1/2"	3"	4"	4"	4"	4"	5"	5"	5"	5"	6"	6"	6"
Noise Level														
Noise Level	dBA	88	90	90	92	92	93	95	95	96	97	98	99	100
Weight and Size														
Weight	kg	1685	1724	1796	1894	2103	2166	2923	3051	3127	4061	4298	4349	4458
Width	mm	1300	1300	2300	2300	2300	2300	3300	4300	4300	5300	5300	6300	6300
Depth	mm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
Height	mm	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400

1 Cooling performance calculated at water inlet/outlet temperature 12/7°C, outdoor temperature 35 °C.

DOUBLE SCREW COMPRESSOR

Model		CAW 210W	CAW 280W	CAW 330W	CAW 370W	CAW 395W	CAW 470W	CAW 515W
Power supply	V/ph/Hz	380/3/50						
Performance								
Cooling Capacity [1]	kW	207	280,4	325,6	370,8	393,8	464	512
Power Consumption	kW	66,88	88,92	99,52	115,36	122,96	141,2	156,6
EER		3,10	3,15	3,27	3,21	3,20	3,29	3,27
Capacity Control		4 level (%25 - %50 - %75 - %100)						
Refrigerant								
Type		R 134A						
Control		Electronic Expansion Valve						
Circuit	N°	2						
Compressor								
Compressor Type		Screw						
Number of Compressors	N°	2						
Water Cooled Heat Exchanger								
Heat Exchanger Type		Brazed Plate Heat Exchanger						
Water Flow	m³/h	35,604	48,2288	56,0032	63,7776	67,7336	79,808	88,064
Water Pressure Loss	kPa	50	49	49	49	41	42	48
Air Cooled Heat Exchanger								
Heat Exchanger Type		Microchannel						
Fan								
Fan Type		AC Axial Fan						
Number of Fans	N°	4	6	6	8	8	10	10
Air Flow	m³/h	72000	108000		144000		180000	
Operation Range								
Water Side	°C	5 ~ 30						
Air Side	°C	-15 ~ 50						
Water Circuit								
Connection Type		Flanged connection						
Pipe Diameter	inç	4"	5"	5"	5"	5"	5"	6"
Noise Level								
Noise Level	dBA	90	92	92	93	93	93	94
Weight and Size								
Weight	kg	3150	3538	3558	3670	3796	4563	4753
Width	mm	2300	3300	3300	4300	4300	5300	5300
Depth	mm	2200						
Height	mm	2400						

1 Cooling performance is calculated at 12/7°C water inlet/outlet temperature and 35°C outdoor temperature.

DOUBLE SCREW COMPRESSOR

Model		CAW 585W	CAW 700W	CAW 810W	CAW 930W	CAW1060W	CAW1150W	CAW1250W
Power supply	V/ph/ Hz	380/3/50						
Performance								
Cooling Capacity [1]	kW	582	692	806	926	1052	1134	1240
Power Consumption	kW	179,44	210,48	237,52	277	308,6	351,84	378,68
EER		3,24	3,29	3,39	3,34	3,41	3,22	3,27
Capacity Control		4 level (%25 - %50 - %75 - %100)						
Refrigerant								
Type		R 134A						
Control		Electronic Expansion Valve						
Circuit	N°	2						
Compressor								
Compressor Type		Screw						
Number of Compressors	N°	2						
Water Cooled Heat Exchanger								
Heat Exchanger Type		Brazed Plate Heat Exchanger						
Water Flow	m³/h	100,104	119,024	138,632	159,272	180,944	195,048	213,28
Water Pressure Loss	kPa	50	41	40	48	41	46	43
Air Cooled Heat Exchanger								
Heat Exchanger Type		Microchannel						
Fan								
Fan Type		AC Axial Fan						
Number of Fans	N°	12	14	16	20	20	22	24
Air Flow	m³/h	216000	252000	288000	360000		396000	432000
Operation Range								
Water Side	°C	5 ~ 30						
Air Side	°C	-15 ~ 50						
Water Circuit								
Connection Type		Flanged connection						
Pipe Diameter	inç	6"	6"	8"	8"	8"	8"	8"
Noise Level								
Noise Level	dBA	94	94	95	95	96	96	96
Weight and Size								
Weight	kg	5041	6225	6299	6340	7364	7540	7832
Width	mm	6300	7300	8300	10300	10300	11300	12300
Depth	mm	2200						
Height	mm	2400						

CoolAer

Inverter – Screw Compressor

- Impressive price performance relationship
- Modern design
- Unprecedented ease of maintenance thanks to a simple and easily accessible internal structure.
- Easy maintenance advantage and long interval maintnance times
- Automatic control and safety system
- More efficient separation and longer maintenance hours with the
- Spin-On separator
- Low energy consumption.

INVERTER – SCREW COMPRESSOR

Model		CAW 240WD	CAW 300WD	CAW 370WD	CAW 490WD	CAW 590WD	CAW 480WD	CAW 600WD	CAW 740WD	CAW 980WD	CAW 1180WD
Power supply	V/ph/ Hz	380/3/50									
Performance											
Cooling Capacity [1]	kW	239	299	370	488	589	478	598	740	976	1178
Power Consumption	kW	75,12	93,22	116,76	147,2	180,24	146,8	186,44	233,52	294,4	360,48
EER		3,18	3,21	3,17	3,32	3,27	3,26	3,21	3,17	3,32	3,27
Capacity Control		Inverter Controlled (25% ~ 100%)									
Refrigerant											
Type		R 134A									
Control		Electronic Expansion Valve									
Circuit	N°	1					2				
Compressor											
Compressor Type		Screw-Inverter									
Number of Compressors	N°	1					2				
Water Cooled Heat Exchanger											
Heat Exchanger Type		Brazed Plate Heat Exchanger									
Water Flow	m³/h	41,11	51,43	63,64	83,94	101,31	82,22	102,86	127,28	167,87	202,62
Water Pressure Loss	kPa	40	42	46	43	45	40	42	46	43	45
Air Cooled Heat Exchanger											
Heat Exchanger Type		Microchannel									
Fan											
Fan Type		AC Axial Fan									
Number of Fans	N°	6	6	8	10	12	10	12	16	20	24
Air Flow	m³/h	108000	108000	144000	180000	216000	180000	216000	288000	360000	432000
Operation Range											
Water Side	°C	5 ~ 30									
Air Side	°C	-15 ~ 50									
Water Circuit											
Connection Type		Flanged Connection									
Pipe Diameter	inç	4"	5"	5"	6"	6"	6"	6"	6"	8"	8"
Noise Level											
Noise Level	dBA	90	94	93	95	91	96	96	92	95	94
Weight and Size											
Weight	kg	2201	2985	3129	4318	4759	3547	4113	5421	6635	7843
Width	mm	3300	3300	4300	5300	6300	5300	6300	8300	10300	12300
Depth	mm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
Height	mm	2400	2400	2400	2400	2400	2400	2400	2400	2400	2400

1 Soğutma performansı, su giriş/çıkış sıcaklığı 12/7°C, dış ortam sıcaklığı 35°C de hesaplanmıştır.

SCROLL HEAT RECOVERY

Model		CAW 14S-HR	CAW 23S-HR	CAW 27S-HR	CAW 32S-HR	CAW 40S-HR	CAW 55S-HR	CAW 65S-HR	CAW 80S-HR	CAW 105S-HR
Power source	V/ph/Hz	380/3/50								
Performance										
Cooling Capacity [1]	kW	13,2	22,5	26,2	31,5	39,5	53,65	64,7	79,3	104,2
Power consumption	kW	4,306	6,766	7,836	9,106	12,42	16,34	19,52	26,84	32,51
EER		3,07	3,33	3,34	3,46	3,18	3,28	3,31	2,95	3,21
Capacity Control		On/Off								
Minimum Capacity	%	100								
Refrigerant										
Type		R 410A								
Control		Thermostatic Expansion Valve					Electronic Expansion Valve			
Circuit	N°	1								
Compressor										
Compressor Type		Scroll								
Number of Compressors	N°	1								
Water Cooled Heat Exchanger										
Heat Exchanger Type		Brazed Plate Heat Exchanger								
Water Flow	m³/h	2,27	3,87	4,51	5,42	6,79	9,23	11,13	13,64	17,92
Water Pressure Loss	kPa	34	32	36	35	41	39	36	50	43
Air Cooled Heat Exchanger										
Exchanger type		Microchannel								
Fan										
Fan Type		AC Axial Fan								
Number of Fans	N°	2								
Air Flow	m³/h	9400	10450		11000	16500		24000		36000
Operation Range										
Water Side	°C	5 ~ 30								
Air Side	°C	-15 ~ 50								
Water Circuit										
Connection Type		Threadeded tube								
Pipe Diameter	inç	1 ¼"	1½"	2"	2"	2"	2½"	2½"	2½"	3"
Noise Level										
Sound pressure level	dBA	79			80	81			82	83
Weight and Size										
Weight	kg	136	223	262	310	388	534	631	776	1019
Width	mm	1084	1163	1163	1163	1200	1200	1805	1805	1805
Depth	mm	405	430	430	430	1750	1750	2296	2296	2296
Height	mm	1135	1550	1550	1550	1670	1670	2160	2160	2196
Heat Recovery (Optional)										
Heating Capacity [2]	kW	16,45	27,6	32,3	38,3	48,5	65,52	79,72	99,65	126,9
Cooling Capacity [2]	kW	12,2	20,9	24,4	29	36,68	49,06	60,01	74,01	96,95
Heating Capacity [2]	kW	15,55	25,8	30,1	35,1	45,25	61,11	74,4	92,9	117,3
Cooling Capacity [3]	kW	9,97	17,3	20,2	23,4	30,45	40,67	49,89	61,42	80,2
Heat Exchanger Type		Brazed Plate Heat Exchanger								
Water Flow	m³/h	2,83	4,75	5,56	6,59	8,34	11,27	13,71	17,14	21,83
Water Pressure Loss	kPa	33	32	34	30	39	40	42	48	47
Connection Type		Threadeded tube								
Pipe Diameter	inç	1½"	2"	2"	2"	2½"	2½"	2½"	3"	3"

SCROLL HEAT RECOVERY

Model		CAW 130S - HR	CAW 160S- HR	CAW 210S- HR	CAW 240S- HR	CAW 315S- HR	CAW 390S- HR	CAW 420S- HR	CAW 480S- HR	CAW 525S- HR	CAW 630S- HR
Power source	V/ph/Hz	380/3/50									
Performance											
Cooling Capacity [1]	kW	129,4	159,5	208,4	239,25	312,6	388,2	416,8	478,5	521	625,2
Power consumption	kW	43,66	53,22	65,02	79,83	97,53	130,1	130,04	159,66	162,55	195,06
EER		2,96	3,00	3,21	3,00	3,21	2,98	3,21	3,00	3,21	3,21
Capacity Control		On/Off									
Minimum Capacity	%	50			33		17	25	17	20	17
Refrigerant											
Type		R 410A									
Control		Elektronik Genleşme Valfi									
Circuit	N°	2									
Compressor											
Compressor Type		Scroll									
Number of Compressors	N°	2			3		6	4	6	5	6
Water Cooled Heat Exchanger											
Heat Exchanger Type		Lehimli Plakalı Eşanjör									
Water Flow	m³/h	22,26	27,43	35,84	41,15	53,77	66,77	71,69	82,30	89,61	107,53
Water Pressure Loss	kPa	47	43	50	47	45	50	47	48	48	48
Air Cooled Heat Exchanger											
Exchanger type		Mikrokanallı									
Fan											
Fan Type		AC Aksiyel Fan									
Number of Fans	N°	4	4	4	6	6	8	8	12	10	12
Air Flow	m³/h	72000			108000		144000		216000	180000	216000
Operation Range											
Water Side	°C	5 ~ 30									
Air Side	°C	-15 ~ 50									
Water Circuit											
Connection Type		Flanşlı Boru									
Pipe Diameter	inç	3"	4"			5"			6"		
Noise Level											
Sound pressure level	dBA	83	85	85	86	87	87	87	89	89	89
Weight and Size											
Weight	kg	1261	1552	2037	2328	2418	3042	3276	3216	3518	4154
Width	mm	2300			3300		4300		5300		6300
Depth	mm	2200									
Height	mm	2400									
Heat Recovery (Optional)											
Heating Capacity [2]	kW	159,44	199,3	253,8	298,95	380,7	478,32	507,6	597,9	634,5	761,4
Cooling Capacity [2]	kW	120,02	148,02	193,9	222,03	290,85	360,06	387,8	444,06	484,75	581,7
Heating Capacity [2]	kW	148,8	185,8	234,6	278,7	351,9	446,4	469,2	557,4	586,5	703,8
Cooling Capacity [3]	kW	99,78	122,84	160,4	184,26	240,6	299,34	320,8	368,52	401	481,2
Heat Exchanger Type		Lehimli Plakalı Eşanjör									
Water Flow	m³/h	27,42	34,28	43,65	51,42	65,48	82,27	87,31	102,84	109,13	130,96
Water Pressure Loss	kPa	45	46	50	50	47	46	44	49	49	48
Connection Type		Flanşlı Boru									
Pipe Diameter	inç	4"			5"		6"				

1 Cooling performance is calculated at 12/7°C water inlet/outlet temperature and 35°C outdoor temperature.

2 Heating-cooling performance is calculated at a domestic hot water inlet/outlet temperature of 40-45 °C.

3 Heating-cooling performance is calculated at a domestic hot water inlet/outlet temperature of 50-55 °C.

INVERTER HEAT RECOVERY

Model		CAW 14D- HR	CAW 23D- HR	CAW 27D- HR	CAW 32D- HR	CAW 45D- HR	CAW 55D- HR
Power source	V/ph/ Hz	380/3/50					
Performance							
Cooling Capacity [1]	kW	13,2	22,5	26,2	31,5	45	55
Power Consumption	kW	4,54	7,35	8,44	10,11	14,32	18,22
EER		2,91	3,06	3,10	3,12	3,14	3,02
Capacity Control		Inverter Controlled (%25 ~ %100)					
Refrigerant							
Type		R 410A					
Control		Electronic Expansion Valve					
Circuit	N°	1					
Compressor							
Compressor Type		Scroll - Inverter					
Compressor Number	N°	1					
Water Cooled Heat Exchanger							
Heat Exchanger Type		Brazed Plate Heat Exchanger					
Water Flow	m³/h	2,27	3,87	4,51	5,42	7,74	9,46
Water Pressure Loss	kPa	32	34	35	36	37	39
Air Cooled Heat Exchanger							
Heat Exchanger Type		Microchannel					
Fan							
Fan Type		AC Axial Fan					
Number of Fans	N°	2					
Air Flow	m³/h	9400	10450		11000	16500	
Operation Range							
Water Side	°C	5 ~ 30					
Air Side	°C	-15 ~ 50					
Water Circuit							
Connection Type		Threadeded					
Pipe Diameter	inç	1 1/4"	1 1/2"	2"	2"	2 1/2"	2 1/2"
Noise level							
Sound pressure level	dBA	79			81		83
Weight and Size							
Weigh	kg	265	310	323	405	512	631
Width	mm	1084	1163	1163	1163	1200	1200
Depth	mm	405	430	430	430	1750	1750
Height	mm	1135	1550	1550	1550	1670	1670
Heat Recovery (Optional)							
Heating Capacity [2]	kW	16,8	27,04	31,55	39,5	55,9	68,1
Cooling Capacity [2]	kW	12,28	20,4	23,85	29,31	41,97	51,4
Heating Capacity [2]	kW	15,75	24,28	28,47	37	52,1	63
Cooling Capacity [3]	kW	10,34	15,8	18,8	24,6	35,4	43,2
Heat Exchanger Type		Brazed Plate Heat Exchanger					
Water Flow	m³/h	2,89	4,65	5,43	6,79	9,61	11,71
Water Pressure Loss	kPa	34	31	30	33	37	42
Connection Type		Threadeded pipe					
Pipe Diameter	inç	1½"	2"	2"	2"	2½"	2½"

INVERTER HEAT RECOVERY

Model		CAW 65D- HR	CAW 75D- HR	CAW 90D- HR	CAW 110D- HR	CAW 130D- HR	CAW 150D- HR
Power source	V/ph/Hz	380/3/50					
Performance							
Cooling Capacity [1]	kW	65	75	90	110	130	150
Power Consumption	kW	20,35	25,1	30,58	37,58	41,36	47,9
EER		3,19	2,99	2,94	2,93	3,14	3,13
Capacity Control		Inverter Kontrollü (%25 ~ %100)					
Refrigerant							
Type		R 410A					
Control		Electronic Expansion Valve					
Circuit	N°	1		2			
Compressor							
Compressor Type		Scroll - Inverter					
Compressor Number	N°	1		2			
Water Cooled Heat Exchanger							
Heat Exchanger Type							
Water Flow	m³/h	11,18	12,90	15,48	18,92	22,36	25,80
Water Pressure Loss	kPa	39	42	44	43	46	48
Air Cooled Heat Exchanger							
Heat Exchanger Type		Microchannel					
Fan							
Fan Type		AC Axial Fan					
Number of Fans	N°	2				4	
Air Flow	m³/h	24000		36000		72000	
Operation Range							
Water Side	°C	5 ~ 30					
Air Side	°C	-15 ~ 50					
Water Circuit							
Connection Type		Threadeded					Flanged
Pipe Diameter	inç	2 1/2"		3"			4"
Noise level							
Sound pressure level	dBA	83	85	87	87	89	89
Weight and Size							
Weigh	kg	724	755	842	910	995	1047
Width	mm	1805	1805	1805	1300	2300	2300
Depth	mm	2296	2296	2296	2200	2200	2200
Height	mm	2160	2160	2196	2400	2400	2400
Heat Recovery (Optional)							
Heating Capacity [2]	kW	80,5	92,67	111,8	136,2	161	185,34
Cooling Capacity [2]	kW	60,26	70,01	83,94	102,8	120,52	140,02
Heating Capacity [2]	kW	75	86,2	104,2	126	150	172,4
Cooling Capacity [3]	kW	51	59,02	70,8	86,4	102	118,04
Heat Exchanger Type		Brazed Plate Heat Exchanger					
Water Flow	m³/h	13,85	15,94	19,23	23,43	27,69	31,88
Water Pressure Loss	kPa	38	50	50	46	48	43
Connection Type		Threadeded pipe			Flanged		
Pipe Diameter	inç	2½"	3"	3"	4"	4"	4"

1 Cooling performance is calculated at 12/7°C water inlet/outlet temperature and 35°C outdoor temperature.

2 Heating-cooling performance is calculated at a domestic hot water inlet/outlet temperature of 40-45 °C.

3 Heating-cooling performance is calculated at a domestic hot water inlet/outlet temperature of 50-55 °C.

SCREW HEAT RECOVERY

Model		CAW 75W- HR	CAW 105W- HR	CAW 140W- HR	CAW 165W- HR	CAW 200W- HR	CAW 235W- HR	CAW 295W - HR
Power source	V/ ph/Hz	380/3/50						
Performance								
Cooling Capacity [1]	kW	73,3	103,5	140,2	162,8	196,9	232	291
Power Consumption	kW	24,1	33,44	45,9	51	61,48	68,88	89,3
EER		3,04	3,10	3,05	3,19	3,20	3,37	3,26
Capacity Control		4 level (%25 - %50 - %75 - %100)						
Refrigerant								
Type		R 134A						
Control		Electronic Expansion Valve						
Circuit	N°	1						
Compressor								
Compressor Type		Screw						
Compressor Number	N°	1						
Water Cooled Heat Exchanger								
Heat Exchanger Type								
Water Flow	m³/h	12,61	17,80	24,11	28,00	33,87	39,90	50,05
Water Pressure Loss	kPa	40	42	46	43	45	49	47
Air Cooled Heat Exchanger								
Heat Exchanger Type		Mcrochannel						
Fan								
Fan Type		AC Axial Fan						
Number of Fans	N°	2		4				6
Air Flow	m³/h	25000	36000	42000	50000	72000	72000	90000
Operation Range								
Water Side	°C	5 ~ 30						
Air Side	°C	-15 ~ 50						
Water Circuit								
Connection Type		Threadeded		Flanged				
Pipe Diameter	inç	2 1/2"	3"	4"				5"
Noise level								
Sound pressure level	dBA	88	90	90	92	92	93	95
Weight and Size								
Weigh	kg	1685	1724	1796	1894	2103	2166	2923
Width	mm	1300	1300	2300	2300	2300	2300	3300
Depth	mm	2200						
Height	mm	2400						
Heat Recovery (Optional)								
Heating Capacity [2]	kW	90,7	128,5	172,7	200	244	284	359
Cooling Capacity [2]	kW	67,8	95,3	129,2	151,3	183,6	215	271
Heating Capacity [2]	kW	83,7	119,1	159,9	187,2	230	265	338
Cooling Capacity [3]	kW	55,8	78,3	106,5	126,3	155,5	180,2	229
Heat Exchanger Type		Brazed Plate Heat Exchanger						
Water Flow	m³/h	15,60	22,10	29,70	34,40	41,97	48,85	61,75
Water Pressure Loss	kPa	42	43	48	43	48	47	50
Connection Type		Threadeded pipe		Flanged				
Pipe Diameter	inç	3"	3"	4"	4"	4"	5"	5"

SCREW HEAT RECOVERY

Model		CAW 350W- HR	CAW 405W- HR	CAW 465W- HR	CAW 530W- HR	CAW 570W- HR	CAW 625W- HR
Power source	V/ph/Hz	380/3/50					
Performance							
Cooling Capacity [1]	kW	346	403	463	526	567	620
Power Consumption	kW	106,96	118,76	138,5	154,3	175	188
EER		3,23	3,39	3,34	3,41	3,24	3,30
Capacity Control		4 level (%25 - %50 - %75 - %100)					
Refrigerant							
Type		R 134A					
Control		Electronic Expansion Valve					
Circuit	N°	1					
Compressor							
Compressor Type		Screw					
Compressor Number	N°	1					
Water Cooled Heat Exchanger							
Heat Exchanger Type		Brazed Plate Heat Exchanger					
Water Flow	m³/h	59,51	69,32	79,64	90,47	97,52	106,64
Water Pressure Loss	kPa	48	46	46	45	50	48
Air Cooled Heat Exchanger							
Heat Exchanger Type		Microchannel					
Fan							
Fan Type		AC Axial Fan					
Number of Fans	N°	8		10			12
Air Flow	m³/h	100000	100000	144000	144000	162000	180000
Operation Range							
Water Side	°C	5 ~ 30					
Air Side	°C	-15 ~ 50					
Water Circuit							
Connection Type		Flanged					
Pipe Diameter	inç	5"			6"		
Noise Level							
Sound pressure level	dBA	95	96	97	98	99	100
Weight and Size							
Weigh	kg	3051	3127	4061	4298	4349	4458
Width	mm	4300	4300	5300	5300	6300	6300
Depth	mm	2200	2200	2200	2200	2200	2200
Height	mm	2400	2400	2400	2400	2400	2400
Heat Recovery (Optional)							
Heating Capacity [2]	kW	424	489	567	643	701	764
Cooling Capacity [2]	kW	321	375	433	492	529	580
Heating Capacity [2]	kW	394	454	532	604	654	718
Cooling Capacity [3]	kW	268	315	370	420	448	496
Heat Exchanger Type		Brazed Plate Heat Exchanger					
Water Flow	m³/h	72,93	84,11	97,52	110,60	120,57	131,41
Water Pressure Loss	kPa	42	44	47	45	47	48
Connection Type		Flanged					
Pipe Diameter	inç	5"	6"				8"

1 Cooling performance is calculated at 12/7°C water inlet/outlet temperature and 35°C outdoor temperature.

2 Heating-cooling performance is calculated at a domestic hot water inlet/outlet temperature of 40-45 °C.

3 Heating-cooling performance is calculated at a domestic hot water inlet/outlet temperature of 50-55 °C.

TWIN SCREW HEAT RECOVERY

Model		CAW 210W-HR	CAW 280W-HR	CAW 330W-HR	CAW 370W-HR	CAW 395W-HR	CAW 470W-HR	CAW 515W-HR
Power source	V/ph/Hz	380/3/50						
Performance								
Cooling Capacity [1]	kW	207	280,4	325,6	370,8	393,8	464	512
Power Consumption	kW	66,88	88,92	99,52	115,36	122,96	141,2	156,6
EER		3,10	3,15	3,27	3,21	3,20	3,29	3,27
Capacity Control								
Refrigerant								
Type		R 134A						
Control		Electronic expansion valve						
Circuit	N°	2						
Compressor								
Compressor Type		Screw						
Compressor Number	N°	2						
Water Cooled Heat Exchanger								
Heat Exchanger Type		Brazed Plate Heat Exchanger						
Water Flow	m³/h	35,604	48,2288	56,0032	63,7776	67,7336	79,808	88,064
Water Pressure Loss	kPa	50	49	49	49	41	42	48
Air Cooled Heat Exchanger								
Heat Exchanger Type		Microchannel						
Fan								
Fan Type		AC Axial Fan						
Number of Fans	N°	4	6	6	8	8	10	10
Air Flow	m³/h	72000	108000		144000		180000	
Operation Range								
Water Side	°C	5 ~ 30						
Air Side	°C	-15 ~ 50						
Water Circuit								
Connection Type		Flanged Connection						
Pipe Diameter	inç	4"	5"					6"
Noise Level								
Sound pressure level	dBA	90	92	92	93	93	93	94
Weight and Size								
Weigh	kg	3150	3538	3558	3670	3796	4563	4753
Width	mm	2300	3300	3300	4300	4300	5300	5300
Depth	mm	2200	2200	2200	2200	2200	2200	2200
Height	mm	2400						
Heat Recovery (Optional)								
Heating Capacity [2]	kW	257	345,4	400	456	488	568	630
Cooling Capacity [2]	kW	190,6	258,4	302,6	344,6	367,2	430	476
Heating Capacity [2]	kW	238,2	319,8	374,4	426	460	530	594
Cooling Capacity [3]	kW	156,6	213	252,6	287,8	311	360,4	402
Heat Exchanger Type		Brazed Plate Heat Exchanger						
Water Flow	m³/h	44,20	59,41	68,80	78,43	83,94	97,70	108,36
Water Pressure Loss	kPa	45	47	48	49	47	46	45
Connection Type		Flanged Connection						
Pipe Diameter	inç	4"	5"	5"	5"	6"	6"	6"

TWIN SCREW HEAT RECOVERY

Model		CAW 585W-HR	CAW 700W-HR	CAW 810W-HR	CAW 930W- HR	CAW 1060W-HR	CAW 1150W-HR	CAW 1250W-HR
Power source	V/ph/Hz	380/3/50						
Performance								
Cooling Capacity [1]	kW	582	692	806	926	1052	1134	1240
Power Consumption	kW	179,44	210,48	237,52	277	308,6	351,84	378,68
EER		3,24	3,29	3,39	3,34	3,41	3,22	3,27
Capacity Control		4 Level (%25 - %50 - %75 - %100)						
Refrigerant								
Type		R 134A	R 134A	R 134A	R 134A	R 134A	R 134A	R 134A
Control		Electronic Expansion Valve						
Circuit	N°	2						
Compressor								
Compressor Type		Screw						
Compressor Number	N°	2						
Water Cooled Heat Exchanger								
Heat Exchanger Type		Brazed Plate Heat Exchanger						
Water Flow	m³/h	100,104	119,024	138,632	159,272	180,944	195,048	213,28
Water Pressure Loss	kPa	50	41	40	48	41	46	43
Air Cooled Heat Exchanger								
Heat Exchanger Type		Microchannel						
Fan								
Fan Type		AC Axial Fan						
Number of Fans	N°	12	14	16	20	20	22	24
Air Flow	m³/h	216000	252000	288000	360000		396000	432000
Operation Range								
Water Side	°C	5 ~ 30						
Air Side	°C	-15 ~ 50						
Water Circuit								
Connection Type		Flanged Connection						
Pipe Diameter	inç	6"		8"				
Noise Level								
Sound pressure level	dBA	94		95		96		
Weight and Size								
Weigh	kg	5041	6225	6299	6340	7364	7540	7832
Width	mm	6300	7300	8300	10300	10300	11300	12300
Depth	mm	2200	2200	2200	2200	2200	2200	2200
Height	mm	2400						
Heat Recovery (Optional)								
Heating Capacity [2]	kW	718	848	978	1134	1286	1402	1528
Cooling Capacity [2]	kW	542	642	750	866	984	1058	1160
Heating Capacity [2]	kW	676	788	908	1064	1208	1308	1436
Cooling Capacity [3]	kW	458	536	630	740	840	896	992
Heat Exchanger Type		Brazed Plate Heat Exchanger						
Water Flow	m³/h	123,50	145,86	168,22	195,05	221,19	241,14	262,82
Water Pressure Loss	kPa	46	50	45	44	44	44	46
Connection Type		Flanged Connection						
Pipe Diameter	inç	6"	8"					

1 Cooling Performance is calculated at water inlet/outlet temperature 12/7°C, outdoor temperature 35°C.

2 Heating-cooling Performance is calculated at a domestic hot water inlet/outlet temperature of 40-45 °C.

3 Heating-cooling Performance is calculated at a domestic hot water inlet/outlet temperature of 50-55 °C.

SCREW INVERTER HEAT RECOVERY

Model		CAW 240WD- HR	CAW 300WD- HR	CAW 370WD- HR	CAW 490WD- HR	CAW 590WD- HR
Power source	V/ph/ Hz	380/3/50				
Performance						
Cooling Capacity [1]	kW	239	299	370	488	589
Power Consumption	kW	75,12	93,22	116,76	147,2	180,24
EER		3,18	3,21	3,17	3,32	3,27
Capacity Control		Inverter controlled (%25 ~ %100)				
Refrigerant						
Type		R 134A				
Control		Electronic Expansion Valve				
Circuit	N°	1				
Compressor						
Compressor Type		Screw-Inverter				
Compressor Number	N°	1				
Water Cooled Heat Exchanger						
Heat Exchanger Type		Brazed Plate Heat Exchanger				
Water Flow	m³/h	41,11	51,43	63,64	83,94	101,31
Water Pressure Loss	kPa	40	42	46	43	45
Air Cooled Heat Exchanger						
Heat Exchanger Type		Microchannel				
Fan						
Fan Type		AC Axial Fan				
Number of Fans	N°	6	6	8	10	12
Air Flow	m³/h	108000	108000	144000	180000	216000
Operation Range						
Water Side	°C	5 ~ 30				
Air Side	°C	-15 ~ 50				
Water Circuit						
Connection Type		Flanged				
Pipe Diameter	inç	4"	5"	5"	6"	6"
Noise Level						
Sound pressure level	dBA	90	94	93	95	91
Weight and Size						
Weigh	kg	2201	2985	3129	4318	4759
Width	mm	3300	3300	4300	5300	6300
Depth	mm	2200				
Height	mm	2400				
Heat Recovery (Optional)						
Heating Capacity [2]	kW	296	372	461	603	730
Cooling Capacity [2]	kW	224	281	348	460	556
Heating Capacity [2]	kW	278	353	439	573	691
Cooling Capacity [3]	kW	192	245	304	400	486
Heat Exchanger Type		Brazed Plate Heat Exchanger				
Water Flow	m³/h	50,91	63,98	79,29	103,72	125,56
Water Pressure Loss	kPa	42	46	49	49	48
Connection Type		Flanged				
Pipe Diameter	inç	5"			6"	

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SCREW INVERTER HEAT RECOVERY

Model		CAW 480WD-HR	CAW 600WD- HR	CAW 740WD- HR	CAW 980WD- HR	CAW 1180WD- HR
Power source	V/ph/Hz	380/3/50				
Performance						
Cooling Capacity [1]	kW	478	598	740	976	1178
Power Consumption	kW	146,8	186,44	233,52	294,4	360,48
EER		3,26	3,21	3,17	3,32	3,27
Capacity Control		Inverter Controller (%25 ~ %100)				
Refrigerant						
Type		R 134A				
Control		Electronic Expansion Valve				
Circuit	N°	2				
Compressor						
Compressor Type		Screw-Inverter				
Compressor Number	N°	2				
Water Cooled Heat Exchanger						
Heat Exchanger Type		Brazed Plate Heat Exchanger				
Water Flow	m³/h	82,22	102,86	127,28	167,87	202,62
Water Pressure Loss	kPa	40	42	46	43	45
Air Cooled Heat Exchanger						
Heat Exchanger Type		Microchannel				
Fan						
Fan Type		AC Axial Fan				
Number of Fans	N°	10	12	16	20	24
Air Flow	m³/h	180000	216000	288000	360000	432000
Operation Range						
Water Side	°C	5 ~ 30				
Air Side	°C	-15 ~ 50				
Water Circuit						
Connection Type		Flanged				
Pipe Diameter	inç	6"			8"	
Noise Level						
Sound pressure level	dBA	96	96	92	95	94
Weight and Size						
Weigh	kg	3547	4113	5421	6635	7843
Width	mm	5300	6300	8300	10300	12300
Depth	mm	2200				
Height	mm	2400				
Heat Recovery (Optional)						
Heating Capacity [2]	kW	592	744	922	1206	1460
Cooling Capacity [2]	kW	448	562	696	920	1112
Heating Capacity [2]	kW	556	706	878	1146	1382
Cooling Capacity [3]	kW	384	490	608	800	972
Heat Exchanger Type		Brazed Plate Heat Exchanger				
Water Flow	m³/h	101,82	127,97	158,58	207,43	251,12
Water Pressure Loss	kPa	44	50	46	43	47
Connection Type		Flanged				
Pipe Diameter	inç	6"		8"		

1 Cooling Performance is calculated at water inlet/outlet temperature 12/7°C, outdoor temperature 35°C.

2 Heating-cooling Performance is calculated at a domestic hot water inlet/outlet temperature of 40-45 °C.

3 Heating-cooling Performance is calculated at a domestic hot water inlet/outlet temperature of 50-55 °C.

SCROLL-FC

Model		CAW 65D - FC	CAW 75D - FC	CAW 90D - FC	CAW 110D - FC	CAW 130D - FC	CAW 150D - FC
Power supply	V/ph/Hz	380/3/50					
Performance							
Cooling Capacity [1]	kW	65	75	90	110	130	150
Power consumption	kW	20,35	25,1	30,58	37,58	41,36	47,9
EER		3,19	2,99	2,94	2,93	3,14	3,13
Capacity Control		Inverter Controlled(%25 ~ %100)					
Refrigerant							
Fluid Type		R 410A					
Control		Electronic Expansion Valve					
Circuit	N°	1		2			
Compressor							
Compressor Type		Scroll - Inverter					
Number of Compressors	N°	1		2			
Water Cooled Heat Exchanger							
Heat Exchanger Type		Brazed Plate Heat Exchanger					
Water Flow	m³/h	11,18	12,90	15,48	18,92	22,36	25,80
Water Pressure Drop	kPa	39	42	44	43	46	48
Air Cooled Heat Exchanger							
Exchanger type		Microchannel					
Fan							
Fan Type		AC Axial Fan					
Number of Fans	N°	2				4	
Air Flow	m³/h	24000		36000		72000	
Operation Range							
Water Side	°C	5 ~ 30					
Air Side	°C	-15 ~ 50					
Water Circuit							
Connection Type		Threadeded					Flanged
Pipe Diameter	inç	2 1/2"	2 1/2"	3"			4"
Noise Level							
Sound Power	dBA	83	85	87	87	89	89
Weight and Dimensions							
Weight	kg	724	755	842	910	995	1047
Width	mm	1805	1805	1805	1300	2300	2300
Depth	mm	2296	2296	2296	2200	2200	2200
Height	mm	2160	2160	2196	2400	2400	2400
Free Cooling (Optional)							
Cooling Capacity [2]	kW	63,5	73,5	88	107,6	127	147
Free Cooling Capacity [2]	kW	61	70	85	104	122	140
Air Flow	m³/h	19750	19750	29500	59000	59000	59000

SCROLL-FC

Model		CAW 65D - FC	CAW 75D - FC	CAW 90D - FC	CAW 110D - FC	CAW 130D - FC	CAW 150D - FC
Power supply	V/ph/Hz	380/3/50					
Performance							
Cooling Capacity [1]	kW	65	75	90	110	130	150
Power consumption	kW	20,35	25,1	30,58	37,58	41,36	47,9
EER		3,19	2,99	2,94	2,93	3,14	3,13
Capacity Control		Inverter Controlled(%25 ~ %100)					
Refrigerant							
Fluid Type		R 410A					
Control		Electronic Expansion Valve					
Circuit	N°	1		2			
Compressor							
Compressor Type		Scroll - Inverter					
Number of Compressors	N°	1		2			
Water Cooled Heat Exchanger							
Heat Exchanger Type		Brazed Plate Heat Exchanger					
Water Flow	m³/h	11,18	12,90	15,48	18,92	22,36	25,80
Water Pressure Drop	kPa	39	42	44	43	46	48
Air Cooled Heat Exchanger							
Exchanger type		Microchannel					
Fan							
Fan Type		AC Axial Fan					
Number of Fans	N°	2				4	
Air Flow	m³/h	24000		36000		72000	
Operation Range							
Water Side	°C	5 ~ 30					
Air Side	°C	-15 ~ 50					
Water Circuit							
Connection Type		Threadeded					Flanged
Pipe Diameter	inç	2 1/2"	2 1/2"	3"			4"
Noise Level							
Sound Power	dBA	83	85	87	87	89	89
Weight and Dimensions							
Weight	kg	724	755	842	910	995	1047
Width	mm	1805	1805	1805	1300	2300	2300
Depth	mm	2296	2296	2296	2200	2200	2200
Height	mm	2160	2160	2196	2400	2400	2400
Free Cooling (Optional)							
Cooling Capacity [2]	kW	63,5	73,5	88	107,6	127	147
Free Cooling Capacity [2]	kW	61	70	85	104	122	140
Air Flow	m³/h	19750	19750	29500	59000	59000	59000

İNVERTER-FC

Model		CAW 14D - FC	CAW 23D - FC	CAW 27D - FC	CAW 32D - FC	CAW 45D - FC	CAW 55D - FC
Power supply	V/ph/Hz	380/3/50					
Performance							
Cooling Capacity [1]	kW	13,2	22,5	26,2	31,5	45	55
Power consumption	kW	4,54	7,35	8,44	10,11	14,32	18,22
EER		2,91	3,06	3,10	3,12	3,14	3,02
Capacity Control		Inverter Controlled (%25 ~ %100)					
Refrigerant							
Fluid Type		R 410A					
Control		Electronic Expansion Valve					
Circuit	N°	1					
Compressor							
Compressor Type		Scroll - Inverter					
Number of Compressors	N°	1					
Water Cooled Heat Exchanger							
Heat Exchanger Type		Brazed Plate Heat Exchanger					
Water Flow	m³/h	2,27	3,87	4,51	5,42	7,74	9,46
Water Pressure Drop	kPa	32	34	35	36	37	39
Air Cooled Heat Exchanger							
Exchanger type		Microchannel					
Fan							
Fan Type		AC Axial Fan					
Number of Fans	N°	2					
Air Flow	m³/h	9400	10450		11000	16500	
Operation Range							
Water Side	°C	5 ~ 30					
Air Side	°C	-15 ~ 50					
Water Circuit							
Connection Type		Threadeded					
Pipe Diameter	inç	1 1/4"	1 1/2"	2"	2"	2 1/2"	2 1/2"
Noise Level							
Sound Power	dBA	79			81		83
Weight and Dimensions							
Weight	kg	265	310	323	405	512	631
Width	mm	1084	1163	1163	1163	1200	1200
Depth	mm	405	430	430	430	1750	1750
Height	mm	1135	1550	1550	1550	1670	1670
Free Cooling (Optional)							
Cooling Capacity [2]	kW	12,95	21,9	25,4	30,8	44	53,8
Free Cooling Capacity [2]	kW	12,45	21,2	24,5	30	42,5	52
Air Flow	m³/h	7700	8600	8600	9000	13550	13550

İNVERTER-FC

Model		CAW 65D - FC	CAW 75D - FC	CAW 90D - FC	CAW 110D - FC	CAW 130D - FC	CAW 150D - FC
Power supply	V/ph/Hz	380/3/50					
Performance							
Cooling Capacity [1]	kW	65	75	90	110	130	150
Power consumption	kW	20,35	25,1	30,58	37,58	41,36	47,9
EER		3,19	2,99	2,94	2,93	3,14	3,13
Capacity Control		Inverter Controlled (%25 ~ %100)					
Refrigerant							
Fluid Type		R 410A					
Control		Electronic Expansion Valve					
Circuit	N°	1	1	2	2	2	2
Compressor							
Compressor Type		Scroll - Inverter					
Number of Compressors	N°	1	1	2	2	2	2
Water Cooled Heat Exchanger							
Heat Exchanger Type		Brazed Plate Heat Exchanger					
Water Flow	m³/h	11,18	12,90	15,48	18,92	22,36	25,80
Water Pressure Drop	kPa	39	42	44	43	46	48
Air Cooled Heat Exchanger							
Exchanger type		Microchannel					
Fan							
Fan Type		AC Axial Fan					
Number of Fans	N°	2	2	2	2	4	4
Air Flow	m³/h	9400	10450		11000	16500	
Operation Range							
Water Side	°C	5 ~ 30					
Air Side	°C	-15 ~ 50					
Water Circuit							
Connection Type		Threadeded					Flanged
Pipe Diameter	inç	2 1/2"	2 1/2"	3"	3"	3"	4"
Noise Level							
Sound Power	dBA	83	85	87	87	89	89
Weight and Dimensions							
Weight	kg	724	755	842	910	995	1047
Width	mm	1805	1805	1805	1300	2300	2300
Depth	mm	2296	2296	2296	2200	2200	2200
Height	mm	2160	2160	2196	2400	2400	2400
Free Cooling (Optional)							
Cooling Capacity [2]	kW	63,5	73,5	88	107,6	127	147
Free Cooling Capacity [2]	kW	61	70	85	104	122	140
Air Flow	m³/h	19750	19750	29500	59000	59000	59000

1 Cooling Performance is calculated at water inlet/outlet temperature 12/7°C, outdoor temperature 35°C.

2 Cooling Performance is calculated at 12°C water inlet temperature and 2°C outdoor temperature.

SCREW-FC

Model		CAW 75W - FC	CAW 105W - FC	CAW 140W - FC	CAW 165W - FC	CAW 200W - FC	CAW 235W - FC	CAW 295W - FC
Power supply	V/ph/Hz	380/3/50						
Performance								
Cooling Capacity [1]	kW	73,3	103,5	140,2	162,8	196,9	232	291
Power consumption	kW	24,1	33,44	45,9	51	61,48	68,88	89,3
EER		3,04	3,10	3,05	3,19	3,20	3,37	3,26
Capacity Control		4 Level (%25 - %50 - %75 - %100)						
Refrigerant								
Fluid Type		R 134A						
Control		Electronic Expansion Valve						
Circuit	N°	1						
Compressor								
Compressor Type		Screw						
Number of Compressors	N°	1						
Water Cooled Heat Exchanger								
Heat Exchanger Type		Brazed Plate Heat Exchanger						
Water Flow	m³/h	12,61	17,80	24,11	28,00	33,87	39,90	50,05
Water Pressure Drop	kPa	40	42	46	43	45	49	47
Air Cooled Heat Exchanger								
Exchanger type		Microchannel						
Fan								
Fan Type		AC Axial Fan						
Number of Fans	N°	2		4				6
Air Flow	m³/h	25000	36000	42000	50000	72000		90000
Operation Range								
Water Side	°C	5 ~ 30						
Air Side	°C	-15 ~ 50						
Water Circuit								
Connection Type		Threadeded		Flanged				
Pipe Diameter	inç	2 1/2"	3"	4"				5"
Noise Level								
Sound Power	dBA	88	90	90	92	92	93	95
Weight and Dimensions								
Weight	kg	1685	1724	1796	1894	2103	2166	2923
Width	mm	1300	1300	2300	2300	2300	2300	3300
Depth	mm	2200						
Height	mm	2400						
Free Cooling (Optional)								
Cooling Capacity [2]	kW	71,7	101,1	136,9	159,4	193	227	285
Free Cooling Capacity [2]	kW	64,5	91,0	123,2	143,5	173,7	204,3	256,5
Air Flow	m³/h	20500	29520	34440	41000	59040	59040	73800

SCREW-FC

Model		CAW 350W - FC	CAW 405W - FC	CAW 465W - FC	CAW 530W - FC	CAW 570W - FC	CAW 625W - FC
Power supply	V/ph/Hz	380/3/50					
Performance							
Cooling Capacity [1]	kW	346	403	463	526	567	620
Power consumption	kW	106,96	118,76	138,5	154,3	175	188
EER		3,23	3,39	3,34	3,41	3,24	3,30
Capacity Control		4 Level (%25 - %50 - %75 - %100)					
Refrigerant							
Fluid Type		R 134A					
Control		Electronic Expansion Valve					
Circuit	N°	1					
Compressor							
Compressor Type		Screw					
Number of Compressors	N°	1					
Water Cooled Heat Exchanger							
Heat Exchanger Type		Brazed Plate Heat Exchanger					
Water Flow	m³/h	59,51	69,32	79,64	90,47	97,52	106,64
Water Pressure Drop	kPa	48	46	46	45	50	48
Air Cooled Heat Exchanger							
Exchanger type		Microchannel					
Fan							
Fan Type		AC Axial Fan					
Number of Fans	N°	8		10			12
Air Flow	m³/h	100000		144000		162000	180000
Operation Range							
Water Side	°C	5 ~ 30					
Air Side	°C	-15 ~ 50					
Water Circuit							
Connection Type		Flanged					
Pipe Diameter	inç	5"			6"		
Noise Level							
Sound Power	dBA	95	96	97	98	99	100
Weight and Dimensions							
Weight	kg	3051	3127	4061	4298	4349	4458
Width	mm	4300	4300	5300	5300	6300	6300
Depth	mm	2200					
Height	mm	2400					
Free Cooling (Optional)							
Cooling Capacity [2]	kW	339	395	454	516	556	608
Free Cooling Capacity [2]	kW	305,1	355,5	408,6	464,4	500,4	547,2
Air Flow	m³/h	82000	82000	118080	118080	132840	147600

1 Cooling Performance is calculated at water inlet/outlet temperature 12/7°C, outdoor temperature 35°C.

2 Cooling Performance is calculated at 12°C water inlet temperature and 2°C outdoor temperature.

DOUBLE SCREW-FC

Model		CAW 210W - FC	CAW 280W - FC	CAW 330W - FC	CAW 370W - FC	CAW 395W - FC	CAW 470W - FC	CAW 515W - FC
Power supply	V/ph/Hz	380/3/50						
Performance								
Cooling Capacity [1]	kW	207	280,4	325,6	370,8	393,8	464	512
Power consumption	kW	66,88	88,92	99,52	115,36	122,96	141,2	156,6
EER		3,10	3,15	3,27	3,21	3,20	3,29	3,27
Capacity Control		4 Level (%25 - %50 - %75 - %100)						
Refrigerant								
Fluid Type		R 134A						
Control		Electronic Expansion Valve						
Circuit	N°	2						
Compressor								
Compressor Type		Screw						
Number of Compressors	N°	2						
Water Cooled Heat Exchanger								
Heat Exchanger Type		Brazed Plate Heat Exchanger						
Water Flow	m³/h	35,604	48,2288	56,0032	63,7776	67,7336	79,808	88,064
Water Pressure Drop	kPa	50	49	49	49	41	42	48
Air Cooled Heat Exchanger								
Exchanger type		Microchannel						
Fan								
Fan Type		AC Axial Fan						
Number of Fans	N°	4	6		8		10	
Air Flow	m³/h	72000	108000		144000		180000	
Operation Range								
Water Side	°C	5 ~ 30						
Air Side	°C	-15 ~ 50						
Water Circuit								
Connection Type		Flanged Connection						
Pipe Diameter	inç	4"	5"					6"
Noise Level								
Sound Power	dBA	90	92	92	93	93	93	94
Weight and Dimensions								
Weight	kg	3150	3538	3558	3670	3796	4563	4753
Width	mm	2300	3300	3300	4300	4300	5300	5300
Depth	mm	2200	2200	2200	2200	2200	2200	2200
Height	mm	2400	2400	2400	2400	2400	2400	2400
Free Cooling (Optional)								
Cooling Capacity [2]	kW	202,2	273,8	318,8	363,2	386	454	502
Free Cooling Capacity [2]	kW	182,0	246,4	286,9	326,88	347,4	408,6	451,8
Air Flow	m³/h	59040	88560	88560	118080	118080	147600	147600

DOUBLE SCREW-FC

Model		CAW 585W - FC	CAW 700W - FC	CAW 810W - FC	CAW 930W - FC	CAW 1060W - FC	CAW 1150W - FC	CAW 1250W - FC
Power supply	V/ph/Hz	380/3/50						
Performance								
Cooling Capacity [1]	kW	582	692	806	926	1052	1134	1240
Power consumption	kW	179,44	210,48	237,52	277	308,6	351,84	378,68
EER		3,24	3,29	3,39	3,34	3,41	3,22	3,27
Capacity Control		4 Level (%25 - %50 - %75 - %100)						
Refrigerant								
Fluid Type		R 134A						
Control		Electronic Expansion Valve						
Circuit	N°	2						
Compressor								
Compressor Type		Screw						
Number of Compressors	N°	2						
Water Cooled Heat Exchanger								
Heat Exchanger Type		Brazed Plate Heat Exchanger						
Water Flow	m³/h	100,104	119,024	138,632	159,272	180,944	195,048	213,28
Water Pressure Drop	kPa	50	41	40	48	41	46	43
Air Cooled Heat Exchanger								
Exchanger type		Microchannel						
Fan								
Fan Type		AC Axial Fan						
Number of Fans	N°	12	14	16	20	20	22	24
Air Flow	m³/h	216000	252000	288000	360000		396000	432000
Operation Range								
Water Side	°C	5 ~ 30						
Air Side	°C	-15 ~ 50						
Water Circuit								
Connection Type		Flanged Connection						
Pipe Diameter	inç	6"		8"				
Noise Level								
Sound Power	dBA	94	94	95	95	96	96	96
Weight and Dimensions								
Weight	kg	5041	6225	6299	6340	7364	7540	7832
Width	mm	6300	7300	8300	10300	10300	11300	12300
Depth	mm	2200						
Height	mm	2400						
Free Cooling (Optional)								
Cooling Capacity [2]	kW	570	678	790	908	1032	1112	1216
Free Cooling Capacity [2]	kW	513	610,2	711	817,2	928,8	1000,8	1094,4
Air Flow	m³/h	177120	206640	236160	295200	295200	324720	354240

1 Cooling Performance is calculated at water inlet/outlet temperature 12/7°C, outdoor temperature 35°C.

2 Cooling Performance is calculated at 12°C water inlet temperature and 2°C outdoor temperature.

SCREW INVERTER-FC

Model		CAW 240WD - FC	CAW 300WD - FC	CAW 370WD - FC	CAW 490WD - FC	CAW 590WD - FC
Power supply	V/ph/Hz	380/3/50				
Performance						
Cooling Capacity [1]	kW	239	299	370	488	589
Power consumption	kW	75,12	93,22	116,76	147,2	180,24
EER		3,18	3,21	3,17	3,32	3,27
Capacity Control		Inverter Controlled (%25 ~%100)				
Refrigerant						
Fluid Type						
Control		Electronic Expansion Valve				
Circuit	N°	1				
Compressor						
Compressor Type		Screw-Inverter				
Number of Compressors	N°	1				
Water Cooled Heat Exchanger						
Heat Exchanger Type		Brazed Plate Heat Exchanger				
Water Flow	m³/h	41,11	51,43	63,64	83,94	101,31
Water Pressure Drop	kPa	40	42	46	43	45
Air Cooled Heat Exchanger						
Exchanger type		Microchannel				
Fan						
Fan Type		AC Axial Fan				
Number of Fans	N°	6	6	8	10	12
Air Flow	m³/h	108000	108000	144000	180000	216000
Operation Range						
Water Side	°C	5 ~ 30				
Air Side	°C	-15 ~ 50				
Water Circuit						
Connection Type		Flanged				
Pipe Diameter	inç	4"	5"		6"	
Noise Level						
Sound Power	dBA	90	94	93	95	91
Weight and Dimensions						
Weight	kg	2201	2985	3129	4318	4759
Width	mm	3300	3300	4300	5300	6300
Depth	mm	2200				
Height	mm	2400				
Free Cooling (Optional)						
Cooling Capacity [2]	kW	266	338	414	559	672
Free Cooling Capacity [2]	kW	239,4	304,2	372,6	503,1	604,8
Air Flow	m³/h	88560	88560	118080	147600	177120

1 Cooling Performance is calculated at water inlet/outlet temperature 12/7°C, outdoor temperature 35°C.

2 Cooling Performance is calculated at 12°C water inlet temperature and 2°C outdoor temperature.

SCREW INVERTER-FC

Model		CAW 480WD - FC	CAW 600WD - FC	CAW 740WD - FC	CAW 980WD - FC	CAW 1180WD - FC
Power supply	V/ph/Hz	380/3/50				
Performance						
Cooling Capacity [1]	kW	478	598	740	976	1178
Power consumption	kW	146,8	186,44	233,52	294,4	360,48
EER		3,26	3,21	3,17	3,32	3,27
Capacity Control						
Refrigerant						
Fluid Type		R 134A				
Control		Electronic Expansion Valve				
Circuit	N°	2				
Compressor						
Compressor Type		Screw-Inverter				
Number of Compressors	N°	2				
Water Cooled Heat Exchanger						
Heat Exchanger Type		Brazed Plate Heat Exchanger				
Water Flow	m³/h	82,22	102,86	127,28	167,87	202,62
Water Pressure Drop	kPa	40	42	46	43	45
Air Cooled Heat Exchanger						
Exchanger type		Microchannel				
Fan						
Fan Type		AC Axial Fan				
Number of Fans	N°	10	12	16	20	24
Air Flow	m³/h	180000	216000	288000	360000	432000
Operation Range						
Water Side	°C	5 ~ 30				
Air Side	°C	-15 ~ 50				
Water Circuit						
Connection Type		Flanged				
Pipe Diameter	inç	6"			8"	
Noise Level						
Sound Power	dBA	96		92	95	94
Weight and Dimensions						
Weight	kg	3547	4113	5421	6635	7843
Width	mm	5300	6300	8300	10300	12300
Depth	mm	2200				
Height	mm	2400				
Free Cooling (Optional)						
Cooling Capacity [2]	kW	532	676	828	1118	1344
Free Cooling Capacity [2]	kW	478,8	608,4	745,2	1006,2	1209,6
Air Flow	m³/h	147600	177120	236160	295200	354240

1 Cooling Performance is calculated at water inlet/outlet temperature 12/7°C, outdoor temperature 35°C.

2 Cooling Performance is calculated at 12°C water inlet temperature and 2°C outdoor temperature.

ADIABATIC CHILLER

Adiabatic Cooling (Optional)		CAW 210S - A	CAW 240S - A	CAW 315S - A	CAW 390S - A	CAW 420S - A	CAW 480S - A	CAW 525S - A	CAW 630S - A
Cooling Capacity [1]	kW	208,4	239,25	312,6	388,2	416,8	478,5	521	625,2
Adiabatic Cooling Capacity [2]	kW	228,4	261,45	342,6	425,22	456,8	522,9	571	685,2
Air flow	m³/h	59000	88500	88500	118000	118000	178000	147500	178000
Water Consumption	lt/dk	26,8	40,2	40,2	53,6	53,6	67	67	80,4
Dimensions									
Width	mm	2300	3300		4300		5300		6300
Depth	mm	2200							
Height	mm	2400							

Adiabatic Cooling (Optional)		CAW 200W - A	CAW 235W - A	CAW 295W - A	CAW 350W - A	CAW 405W - A	CAW 465W - A	CAW 530W - A	CAW 570W - A	CAW 625W - A
Cooling Capacity [1]	kW	199,6	232	291	346	403	463	526	567	620
Adiabatic Cooling Capacity [2]	kW	215	254	319	379	438	503	572	617	675
Air flow	m³/h	72000	72000	90000	100000	100000	144000	144000	162000	180000
Water Consumption	lt/dk	26,8	26,8	40,2	53,6	53,6	67	67	80,4	80,4
Dimensions										
Width	mm	2300	2300	3300	4300	4300	5300	5300	6300	6300
Depth	mm	2200								
Height	mm	2400								

Adiabatic Cooling (Optional)		CAW 210W - A	CAW 280W - A	CAW 330W - A	CAW 370W - A	CAW 395W - A	CAW 470W - A	CAW 515W - A
Cooling Capacity [1]	kW	207	280,4	325,6	370,8	399,2	464	512
Adiabatic Cooling Capacity [2]	kW	228,6	309,2	355	404	430	508	560
Air flow	m³/h	72000	108000	108000	144000	144000	180000	180000
Water Consumption	lt/dk	26,8	40,2	40,2	53,6	53,6	67	67
Dimensions								
Width	mm	2300	3300	3300	4300	4300	5300	5300
Depth	mm	2200						
Height	mm	2400						

Adiabatic Cooling (Optional)		CAW 585W - A	CAW 700W - A	CAW 810W - A	CAW 930W - A	CAW1060W - A	CAW1150W - A	CAW1250W - A
Cooling Capacity [1]	kW	582	692	806	926	1052	1134	1240
Adiabatic Cooling Capacity [2]	kW	638	758	876	1006	1144	1234	1350
Air flow	m³/h	216000	252000	288000	360000	360000	396000	432000
Water Consumption	lt/dk	80,4	93,8	107,2	134	134	147,4	160,8
Dimensions								
Width	mm	6300	7300	8300	10300	10300	11300	12300
Depth	mm	2200						
Height	mm	2400						

Adiabatic Cooling (Optional)		CAW 240WD - A	CAW 300WD - A	CAW 370WD - A	CAW 490WD - A	CAW 590WD - A	CAW 480WD - A	CAW 600WD - A	CAW 740WD - A	CAW 980WD - A	CAW 1180WD - A
Cooling Capacity [1]	kW	239	299	370	488	589	478	598	740	976	1178
Adiabatic Cooling Capacity [2]	kW	260	324	401	526	634	520	648	802	1052	1268
Air flow	m³/h	108000	108000	144000	180000	216000	180000	216000	288000	360000	432000
Water Consumption	lt/dk	40,2	40,2	53,6	67	80,4	67	80,4	107,2	134	160,8
Dimensions											
Width	mm	3300	3300	4300	5300	6300	5300	6300	8300	10300	12300
Depth	mm	2200									
Height	mm	2400									

1 Cooling Performance is calculated at water inlet/outlet temperature 12/7°C, outdoor temperature 35°C.

2 Cooling Performance is calculated at water inlet/outlet temperature 12/7°C, outdoor temperature 35°C, RH 30%.

Water Cooled Chiller (CWW)

Cooling Capacity (up to 24-1875 kW)

WATER COOLED CHILLER (CWW)

Chillers are systems that provide cooling of areas that need cooling with water. It has a very wide usage area in the process lines and comfort areas of the enterprises.

Standard Features

- Compressor: Capacity Control, thermal protection, scroll and screw compressor
- Electronic Expansion Foundation
- Evaporator: Isolated Shell&Tube or brazed plate heat ex-changer
- Control: Microprocessor Control, pressure gauge, teamwork up to 4 modules, fan speed control.
- Powder coated steel frame

Optional Features

- Sound insulation
- Energy analyzer
- Flow screen
- Soft starter
- Automatic transfer switch
- Compressor noise protection
- Economizer
- Water production below 0°c
- Interface screen for communication
- Vibration dampening and seismic isolation
- Remote control

Pipe Type (Shell and Tube)

The tubular evaporator consists of a copper tube and a steel outer sheath. In addition, the evaporator has two separate refrigerant Circuits and a chilled Water Circuit tuned to the reverse flow principle. The evaporator consists of two separate structures operating according to the counter current principle, the cooler and the cold Water Circuit.

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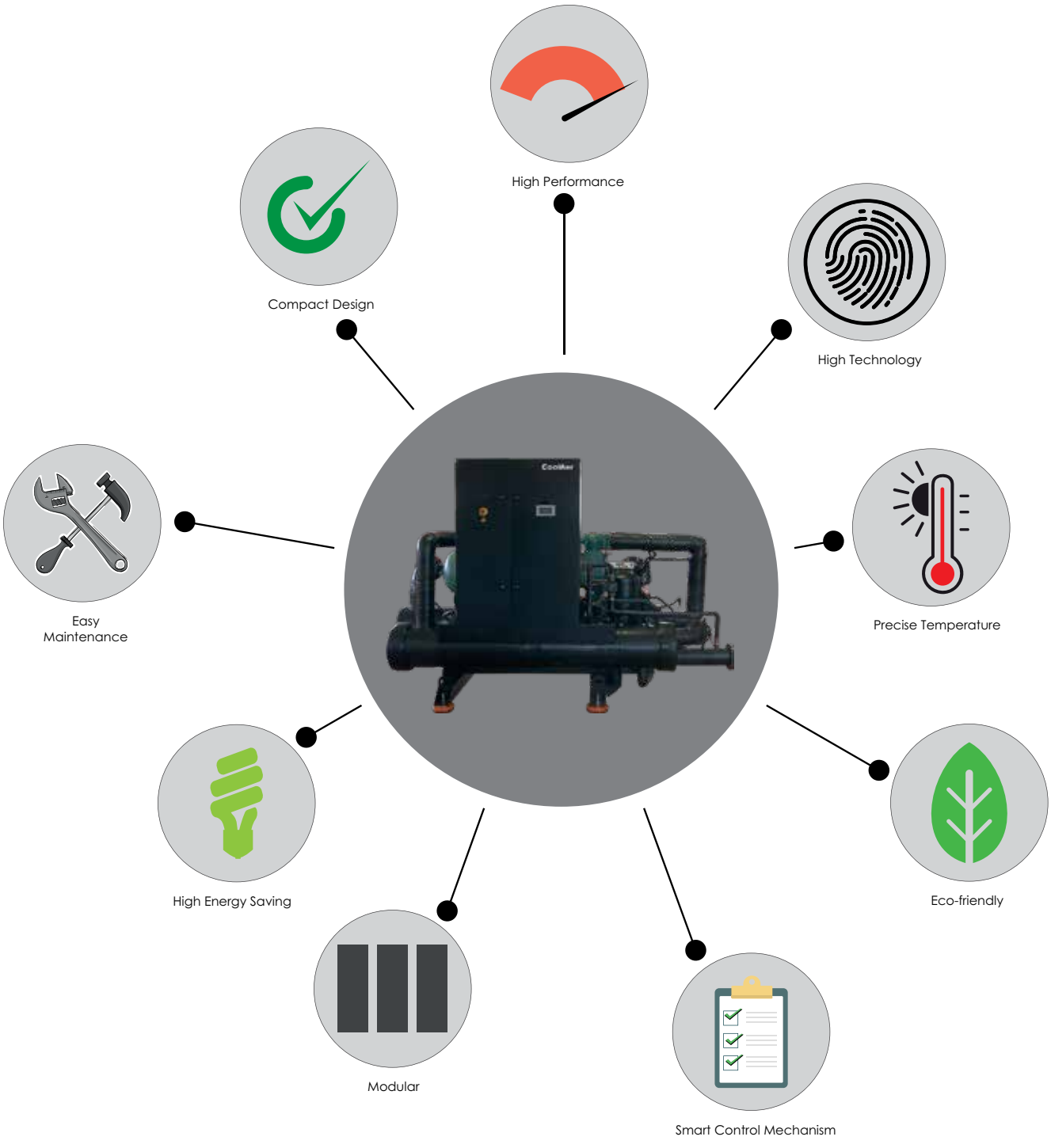
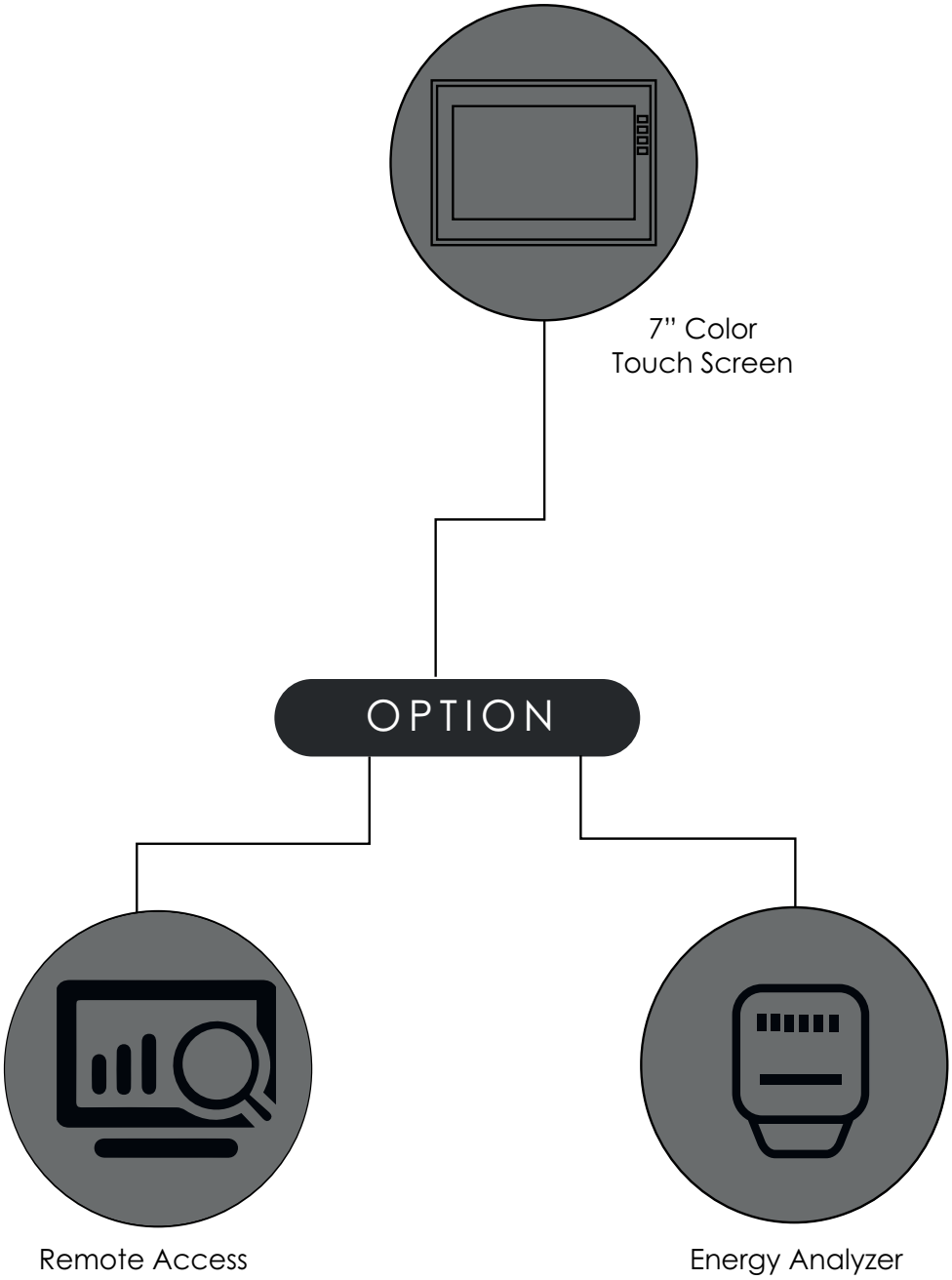
WATER COOLED
PRODUCT SPECIFICATIONS



OPTIONAL PRODUCTS



CWW-SCROLL

Model		CWW 15S	CWW 24S	CWW 30S	CWW 35S	CWW 45S	CWW 60S	CWW 70S	CWW 85S	CWW 115S
Power supply	V/ph/Hz	380/3/50								
Performance										
Cooling Capacity [1]	kW	14,15	24	28	33,8	42,13	56,47	69,16	84,99	111,4
Power Consumption	kW	3,41	5,73	6,69	7,77	10,33	13,56	16,6	20,99	47,8
EER		4,15	4,19	4,19	4,35	4,08	4,16	4,17	4,05	2,33
Capacity Control		On/Off								
Minimum Capacity	%	100								
Refrigerant										
Fluid Type		R 410A								
Control		Thermostatic Expansion Valve					Electronic Expansion Valve			
Circuit	N°	1								
Compressor										
Compressor Type		Scroll								
Compressor number	N°	1								
Water Cooled Heat Exchanger - Evaporator										
Exchanger Type		Brazed Plate Heat Exchanger								
Water Flow	m³/h	2,43	4,13	4,82	5,81	7,25	9,71	11,90	14,62	19,16
Water Pressure Drop	kPa	34	32	36	35	41	39	36	50	43
Water Cooled Heat Exchanger - Condenser										
Exchanger Type		Brazed Plate Heat Exchanger								
Water Flow	m³/h	2,99	5,07	5,90	7,07	7,73	11,96	14,59	18,25	23,43
Water Pressure Drop	kPa	34	32	36	35	41	39	36	50	43
Operation range										
Water side (Evaporator)	°C	5								
Water side (Condenser)	°C	30								
Water Circuit										
Connection type		Threadeded								
Pipe diameter	inç	1 ¼"	2"				2½"	2½"	2½"	3"
Water Circuit										
Connection type		Threadeded								Flanged
Pipe diameter	inç	1½"	2"	2"	2"	2½"	2½"	2½"	3"	4"
Noise Level										
Sound power	dBA	79	79	79	80	81	81	81	82	83
Weight and Dimensions										
Weight	kg	136	223	262	310	388	534	631	776	1019
Width	mm	1084	1163	1163	1163	1200	1200	1805	1805	1805
Depth	mm	405	430	430	430	1750	1750	2296	2296	2296
Height	mm	1135	1550	1550	1550	1670	1670	2160	2160	2196

1 Cooling Performance is calculated at water inlet/outlet temperature 12/7°C, outdoor temperature 35°C.

CWW-SCROLL

Model		CWW 140S	CWW 170S	CWW 225S	CWW 260S	CWW 340S	CWW 415S	CWW 450S	CWW 510S	CWW 560S	CWW 670S
Power supply	V/ph/Hz	380/3/50									
Performance											
Cooling Capacity [1]	kW	138,32	169,98	222,8	254,97	334,2	414,96	445,6	509,94	557	668,4
Power Consumption	kW	33,2	41,98	95,6	62,97	143,4	99,6	191,2	125,94	239	286,8
EER		4,17	4,05	2,33	4,05	2,33	4,17	2,33	4,05	2,33	2,33
Capacity Control		On/Off									
Minimum Capacity	%	50	50	50	33	33	17	25	17	20	17
Refrigerant											
Fluid Type		R 410A									
Control		Electronic Expansion Valve									
Circuit	N°	2									
Compressor											
Compressor Type		Scroll									
Compressor number	N°	2	2	2	3	3	6	4	6	5	6
Water Cooled Heat Exchanger - Evaporator											
Exchanger Type		Brazed Plate Heat Exchanger									
Water Flow	m³/h	23,79	29,24	38,32	43,85	57,48	71,37	76,64	87,71	95,80	114,96
Water Pressure Drop	kPa	47	43	50	47	45	50	47	48	48	48
Water Cooled Heat Exchanger - Condenser											
Exchanger Type		Brazed Plate Heat Exchanger									
Water Flow	m³/h	29,18	36,50	46,85	54,75	70,28	87,55	93,71	109,50	117,13	140,56
Water Pressure Drop	kPa	47	43	50	47	45	50	47	48	48	48
Operation range											
Water side (Evaporator)	°C	30									
Water side (Condenser)	°C	60									
Water Circuit											
Connection type		Flanged									
Pipe diameter	inç	4"				5"			6"		
Water Circuit											
Connection type		Flanged									
Pipe diameter	inç	4"			5"	5"	6"				8"
Noise Level											
Sound power	dBA	83	85	85	86	87	87	87	89	89	89
Weight and Dimensions											
Weight	kg	1261	1552	2037	2328	2418	3042	3276	3216	3518	4154
Width	mm	2300	2300	2300	3300	3300	4300	4300	5300	5300	6300
Depth	mm	2200									
Height	mm	2400									

1 Cooling Performance is calculated at water inlet/outlet temperature 12/7°C, outdoor temperature 35°C.

CWW-INVERTER

Model		CWW 14D	CWW 25D	CWW 30D	CWW 35D	CWW 50D	CWW 60D	CWW 70D	CWW 80D	CWW 100D	CWW 120D	CWW 140D	CWW 160D
Power supply	V/ph/ Hz	380/3/50											
Performance													
Cooling Capacity [1]	kW	14,1	24,5	28,35	33,6	48	58,5	69,7	79,95	96	117	139,4	159,9
Power Consumption	kW	3,75	6,207	7,3	8,747	12,33	15,62	17,4	20,39	24,66	31,24	34,8	40,78
EER		3,76	3,95	3,88	3,84	3,89	3,75	4,01	3,92	3,89	3,75	4,01	3,92
Capacity Control		Inverter Controllü (%25 ~ %100)											
Refrigerant													
Fluid Type		R 410A											
Control		Electronic Expansion Valve											
Circuit	N°	1										2	
Compressor													
Compressor Type		Scroll - Inverter											
Compressor Number	N°	1								2			
Water Cooled Heat Exchanger-Evaporator													
Exchanger Type		Brazed Plate Heat Exchanger											
Water Flow	m³/h	2,43	4,21	4,88	5,78	8,26	10,06	11,99	13,75	16,51	20,12	23,98	27,50
Water Pressure Drop	kPa	32	34	35	36	37	39	39	42	44	43	46	48
Water Cooled Heat Exchanger-Condenser													
Exchanger Type		Brazed Plate Heat Exchanger											
Water Flow	m³/h	3,07	5,15	5,97	7,22	10,26	12,48	14,83	17,00	20,52	24,95	29,65	34,00
Water Pressure Drop	kPa	32	34	35	36	37	39	39	42	44	43	46	48
Operation range													
Water side (Evaporator)	°C	5						30					
Water side (Condenser)	°C	30						60					
Water Circuit - Evaporator													
Connection type		Threadeded										Flanged	
Pipe diameter	inç	1 1/4"	1 1/2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	3"	3"	4"	4"
Water Circuit -Condenser													
Connection type		Threadeded									Flanged		
Pipe diameter	inç	1 1/2"	2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	3"	3"	4"	4"	4"
Noise Level													
Sound power	dBA	79	79	79	81	81	83	83	85	87	87	89	89
Weight and Dimensions													
Weight	kg	265	310	323	405	512	631	724	755	842	910	995	1047
Width	mm	1084	1163	1163	1163	1200	1200	1805	1805	1805	1300	2300	2300
Depth	mm	405	430	430	430	1750	1750	2296	2296	2296	2200	2200	2200
Height	mm	1135	1550	1550	1550	1670	1670	2160	2160	2196	2400	2400	2400

1 Cooling Performance calculated at water inlet/outlet temperature 12/7°C, outdoor temperature 35°C.

CWW-SCREW

Model		CWW 80W	CWW 115W	CWW 150W	CWW 175W	CWW 210W	CWW 250W	CWW 315W
Power supply	V/ph/Hz	380/3/50						
Performance								
Cooling Capacity [1]	kW	78,5	111,3	150,6	173,5	210	248	311
Power Consumption	kW	19,1	27,3	35,8	40,7	49,6	56,4	72,1
EER		4,11	4,08	4,21	4,26	4,23	4,40	4,31
Capacity Control		4 Level (%25 - %50 - %75 - %100)						
Refrigerant								
Fluid Type		R 134A						
Control		Electronic Expansion Valve						
Circuit	N°	1						
Compressor								
Compressor Type		Screw						
Compressor Number	N°	1						
Water Cooled Heat Exchanger-Evaporator								
Exchanger Type		Brazed Plate Heat Exchanger						
Water Flow	m³/h	13,50	19,14	25,90	36,12	42,66	#BAŞV!	53,49
Water Pressure Drop	kPa	40	42	46	43	45	49	47
Water Cooled Heat Exchanger-Condenser								
Exchanger Type		Brazed Plate Heat Exchanger						
Water Flow	m³/h	16,79	23,84	32,06	36,81	44,55	52,29	65,88
Water Pressure Drop	kPa	40	42	46	43	45	49	47
Operation range								
Water side (Evaporator)	°C	5						
Water side (Condenser)	°C	30						
Water Circuit - Evaporator								
Connection type		Threadeded		Flanged				
Pipe diameter	inç	2 1/2"	3"	4"	4"	4"	4"	5"
Water Circuit -Condenser								
Connection type		Threadeded	Flanged					
Pipe diameter	inç	3"	4"	4"	4"	4"	5"	5"
Noise Level								
Sound power	dBA	88	90	90	92	92	93	95
Weight and Dimensions								
Weight	kg	1685	1724	1796	1894	2103	2166	2923
Width	mm	1300	1300	2300	2300	2300	2300	3300
Depth	mm	2200	2200	2200	2200	2200	2200	2200
Height	mm	2400	2400	2400	2400	2400	2400	2400

CWW-SCREW

Model		CWW 370W	CWW 430W	CWW 495W	CWW 560W	CWW 605W	CWW 660W
Power supply	V/ph/Hz	380/3/50					
Performance							
Cooling Capacity [1]	kW	370	429	492	559	603	659
Power Consumption	kW	84,7	96,1	110,1	124,5	143,5	153,4
EER		4,37	4,46	4,47	4,49	4,20	4,30
Capacity Control		4 Level (%25 - %50 - %75 - %100)					
Refrigerant							
Fluid Type		R 134A					
Control		Electronic Expansion Valve					
Circuit	N°	1					
Compressor							
Compressor Type		Screw					
Compressor Number	N°	1					
Water Cooled Heat Exchanger-Evaporator							
Exchanger Type		Brazed Plate Heat Exchanger					
Water Flow	m³/h	63,64	73,79	84,62	96,15	103,72	113,35
Water Pressure Drop	kPa	48	46	46	45	50	48
Water Cooled Heat Exchanger-Condenser							
Exchanger Type		Brazed Plate Heat Exchanger					
Water Flow	m³/h	78,26	90,30	103,54	117,48	128,48	139,84
Water Pressure Drop	kPa	48	46	46	45	50	48
Operation range							
Water side (Evaporator)	°C	30					
Water side (Condenser)	°C	65					
Water Circuit - Evaporator							
Connection type		Flanged					
Pipe diameter	inç	5"		6"			
Water Circuit -Condenser							
Connection type		Flanged					
Pipe diameter	inç	5"	6"				8"
Noise Level							
Sound power	dBA	95	96	97	98	99	100
Weight and Dimensions							
Weight	kg	3051	3127	4061	4298	4349	4458
Width	mm	4300	4300	5300	5300	6300	6300
Depth	mm	2200					
Height	mm	2400					

1 Cooling Performance is calculated at water inlet/outlet temperature 12/7°C, outdoor temperature 35°C.

CWW-DOUBLE SCREW

Model		CWW 225W	CWW 300W	CWW 350W	CWW 400W	CWW 420W	CWW 500W	CWW 550W
Power supply	V/ph/Hz	380/3/50						
Performance								
Cooling Capacity [1]	kW	222,6	301,2	347	395,2	420	496	546
Power Consumption	kW	54,6	71,6	81,4	92,6	99,2	112,8	126,8
EER		4,08	4,21	4,26	4,27	4,23	4,40	4,31
Capacity Control		4 Level (%25 - %50 - %75 - %100)						
Refrigerant								
Fluid Type		R 134A						
Control		Electronic Expansion Valve						
Circuit	N°	2						
Compressor								
Compressor Type		Screw						
Compressor Number	N°	2						
Water Cooled Heat Exchanger-Evaporator								
Exchanger Type		Brazed Plate Heat Exchanger						
Water Flow	m³/h	38,29	51,81	59,68	67,97	72,24	85,31	93,91
Water Pressure Drop	kPa	50	49	49	49	41	42	48
Water Cooled Heat Exchanger-Condenser								
Exchanger Type		Brazed Plate Heat Exchanger						
Water Flow	m³/h	47,68	64,12	73,62	83,94	89,10	104,58	115,93
Water Pressure Drop	kPa	50	49	49	49	41	42	48
Operation range								
Water side (Evaporator)	°C	5						
Water side (Condenser)	°C	30						
Water Circuit - Evaporator								
Connection type		Flanged Connection						
Pipe diameter	inç	4"	5"				6"	
Water Circuit -Condenser								
Connection type		Flanged Connection						
Pipe diameter	inç	5"			6"			
Noise Level								
Sound power	dBA	90	92	92	93	93	93	94
Weight and Dimensions								
Weight	kg	3150	3538	3558	3670	3796	4563	4753
Width	mm	2300	3300	3300	4300	4300	5300	5300
Depth	mm	2200						
Height	mm	2400						

1 Cooling Performance is calculated at water inlet/outlet temperature 12/7°C, outdoor temperature 35°C.

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CWW-DOUBLE SCREW

Model		CWW620W	CWW740W	CWW860W	CWW990W	CWW1120W	CWW1210W	CWW1320W
Power supply	V/ph/Hz	380/3/50						
Performance								
Cooling Capacity [1]	kW	622	740	858	984	1118	1206	1318
Power Consumption	kW	144,2	169,4	192,2	220,2	249	287	306,8
EER		4,31	4,37	4,46	4,47	4,49	4,20	4,30
Capacity Control		4 Level (%25 - %50 - %75 - %100)						
Refrigerant								
Fluid Type		R 134A						
Control		Electronic Expansion Valve						
Circuit	N°	2						
Compressor								
Compressor Type		Screw						
Compressor Number	N°	2						
Water Cooled Heat Exchanger-Evaporator								
Exchanger Type		Brazed Plate Heat Exchanger						
Water Flow	m³/h	106,98	127,28	147,58	169,25	192,30	207,43	226,70
Water Pressure Drop	kPa	50	41	40	48	41	46	43
Water Cooled Heat Exchanger-Condenser								
Exchanger Type		Brazed Plate Heat Exchanger						
Water Flow	m³/h	131,75	156,52	180,60	207,09	234,95	256,97	279,67
Water Pressure Drop	kPa	50	41	40	48	41	46	43
Operation range								
Water side (Evaporator)	°C	30						
Water side (Condenser)	°C	65						
Water Circuit - Evaporator								
Connection type		Flanged Connection						
Pipe diameter	inç	6"	6"	8"	8"	8"	8"	8"
Water Circuit -Condenser								
Connection type		Flanged Connection						
Pipe diameter	inç	8"	8"	8"	8"	8"	8"	8"
Noise Level								
Sound power	dBA	94	94	95	95	96	96	96
Weight and Dimensions								
Weight	kg	5041	6225	6299	6340	7826	7540	7832
Width	mm	6300	7300	8300	10300	10300	11300	12300
Depth	mm	2200						
Height	mm	2400						

1 Cooling Performance is calculated at water inlet/outlet temperature 12/7°C, outdoor temperature 35°C.

CWW-SCREW INVERTER

Model		CWW 255WD	CWW 320WD	CWW 400WD	CWW 525WD	CWW 630WD	CWW 510WD	CWW 635WD	CWW 785WD	CWW 1050WD	CWW 1260WD
Power supply	V/ph/ Hz	380/3/50									
Performance											
Cooling Capacity [1]	kW	254	317	392	521	628	508	634	784	1042	1256
Power Consumption	kW	57,8	74,7	93,2	119,7	149,5	115,6	149,4	186,4	239,4	299
EER		4,39	4,24	4,21	4,35	4,20	4,39	4,24	4,21	4,35	4,20
Capacity Control		Inverter Controlled (%25 ~ %100)									
Refrigerant											
Fluid Type		R 134A									
Control		Electronic Expansion Valve									
Circuit	N°	1					2				
Compressor											
Compressor Type		Screw-Inverter									
Compressor Number	N°	1					2				
Water Cooled Heat Exchanger-Evaporator											
Exchanger Type		Brazed Plate Heat Exchanger									
Water Flow	m³/h	43,69	54,52	67,42	89,61	108,02	87,38	109,05	134,85	179,22	216,03
Water Pressure Drop	kPa	40	42	46	43	45	40	42	46	43	45
Water Cooled Heat Exchanger-Condenser											
Exchanger Type		Brazed Plate Heat Exchanger									
Water Flow	m³/h	53,66	67,42	83,42	110,25	133,82	107,33	134,85	166,84	220,50	267,63
Water Pressure Drop	kPa	40	42	46	43	45	40	42	46	43	45
Operation range											
Water side (Evaporator)	°C	5					30				
Water side (Condenser)	°C	30					65				
Water Circuit - Evaporator											
Connection type		Flanged									
Pipe diameter	inç	4"	5"		6"				8"		
Water Circuit -Condenser											
Connection type		Flanged									
Pipe diameter	inç	5"		6"		8"					
Noise Level											
Sound power	dBA	90	94	93	95	91	96	96	92	95	94
Weight and Dimensions											
Weight	kg	2201	2985	3129	4318	4759	3547	4113	5421	6635	7843
Width	mm	3300	3300	4300	5300	6300	5300	6300	8300	10300	12300
Depth	mm	2200									
Height	mm	2400									

HEAT PUMPS

HEAT PUMPS

Air and Water Source Heat Pump

12-1500 kW / up to 17-2000 kW)

Air Source Heat Pump

up to 12-1500 kW

Air Source Heat Pump

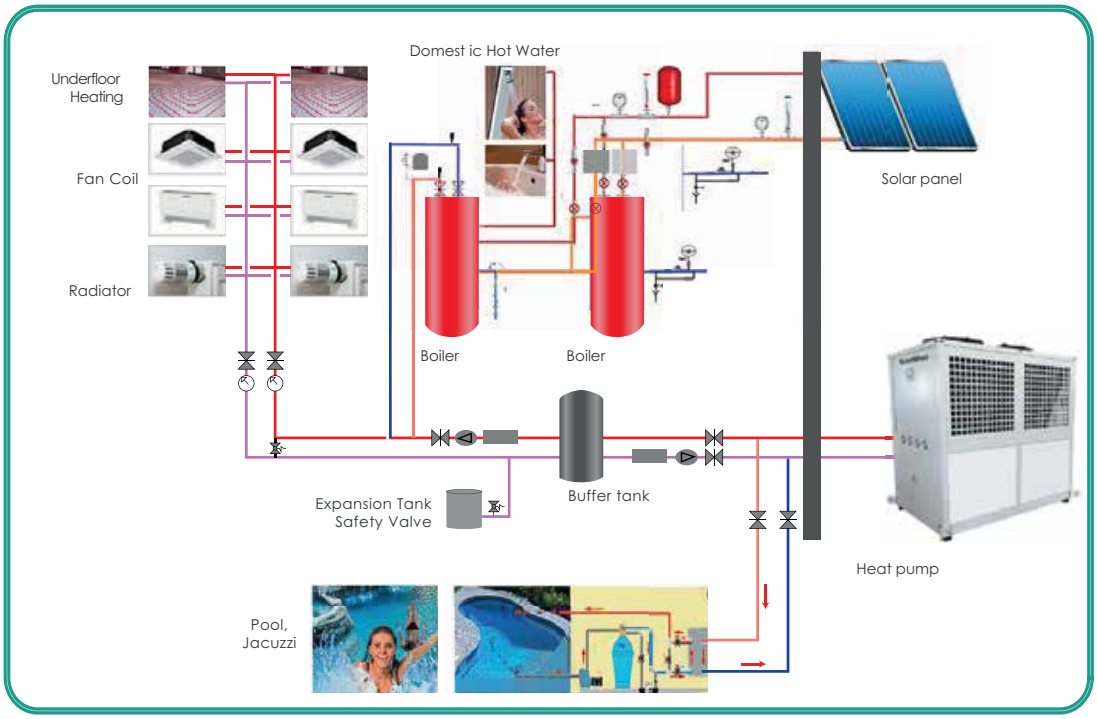
Heat pumps are devices that allow us to use the energy that is available in nature but cannot be used because its temperature is low, by raising its temperature. It takes the potential heat energy in air, soil and water and offers it to our use. With the heat pump, you can achieve heating, cooling and hot water processes in a single device.

Efficiency and applicability go hand in hand. It can produce cold water up to 7 °C. It is easy to assemble with its monoblock (single body) structure. It is compact, durable, efficient and requires low energy costs. It also works in areas where the outside temperature drops down to -20 °C depending on humidity.

Optional

- It performs dehumidification, heating and cooling in air handling units simultaneously and in a single device.
- Thanks to its economizer, it provides 30% additional savings.
- It provides free hot water in summer with its heat recovery feature.
- Cascading feature
- It also works in areas where the outside temperature drops down to -24 °C.
- Optionally, 80°C hot water can be produced.

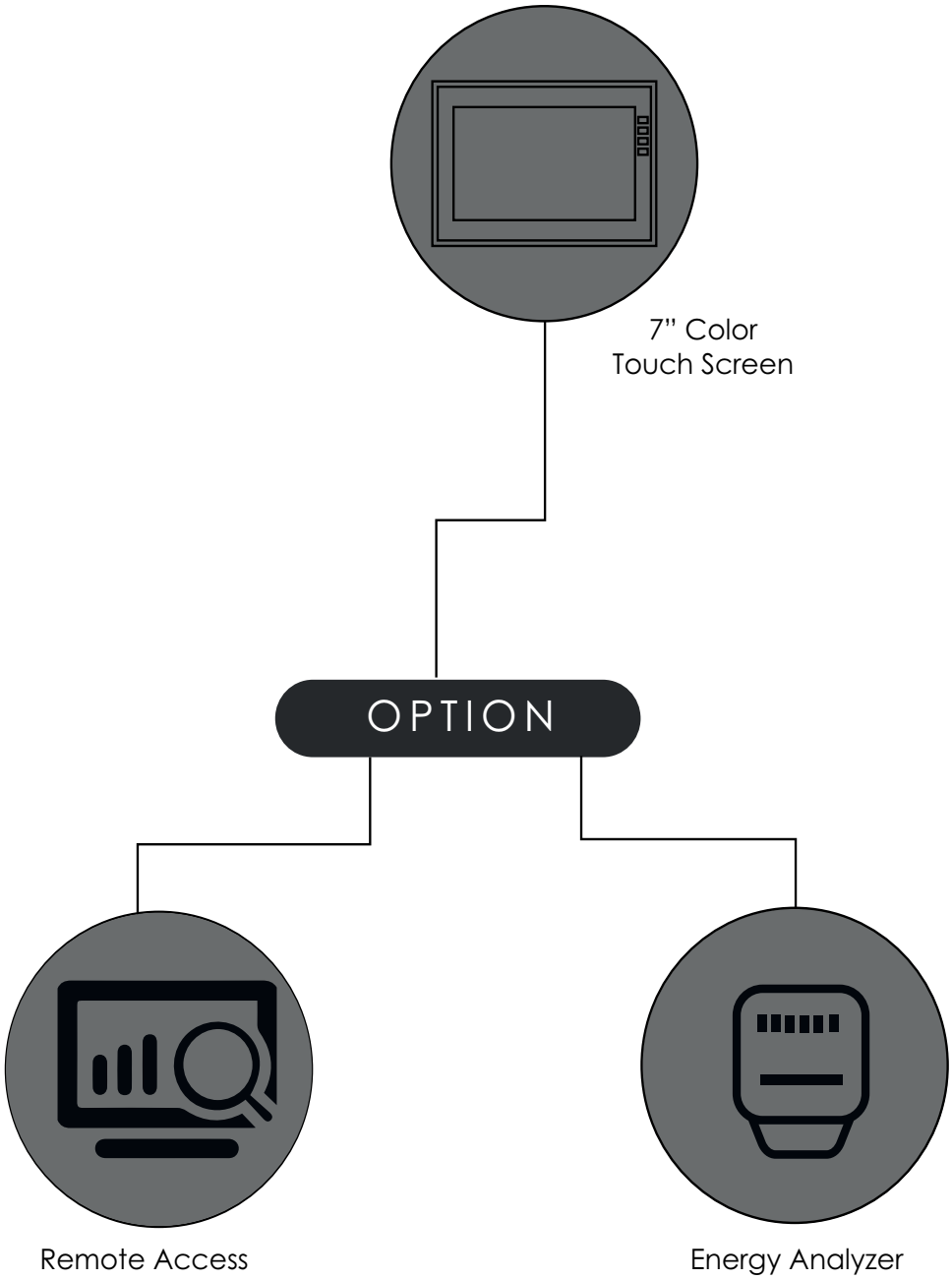
General Heat Pump Usage Patterns



CoolAer

AIR SOURCE HEAT PUMP
PRODUCT SPECIFICATIONS

OPTIONAL PRODUCTS



CoolAer

A/W SERIES

Model		A/W 16	A/W 34	A/W 50	A/W 80	A/W 120	A/W 150
Power Supply	V/ph/Hz	380/3/50					
Performance (Heating)							
Heating capacity [1]	kW	16,8	33,6	54	80	120	152
Power Consumption	kW	4,3	8,6	13,9	20,5	31	39
COP		3,91	3,91	3,88	3,90	3,87	3,90
Capacity Control		On/Off					
Minimum Capacity	%	100	50				
Performance (Cooling)							
Cooling capacity	kW	14,8	29,6	45	68,8	103	128
Power Consumption	kW	4,45	8,9	13,4	21,2	32	40,5
EER		3,33	3,33	3,36	3,25	3,22	3,16
Refrigerant							
Fluid		R 410A					
Circuit	N°	1	2				
Compressor							
Compressor Type		Scroll					
Compressor Number	N°	1	2				
Water Circuit							
Water Flow	m³/h	2,89	5,78	9,29	13,76	20,64	26,1
Pipe diameter	inç	1 1/4"	1 1/2"	2"	3"	3"	4"
Fan							
Fan Type		AC Axial Fan					
Fan number	N°	2				4	
Air flow	m³/h	36000				72000	
Noise Level							
Sound power	dBA	66	66	67	68	69	71
Weight and Size							
Weight	kg	220	380	475	600	850	1050
Width	mm	1303	1550	1900	2400	2910	3450
Depth	mm	550	900	1200	1200	1200	1200
Height	mm	1200	1700	1875	1875	2000	2100

*For heating mode, Outdoor temperature 7 °C Water outlet temperature 35 °C
** For cooling mode, Outdoor temperature 35 °C Water outlet temperature 7 °C

A/W SERIES

Model		A/W 200	A/W 280	A/W 360	A/W 430	A/W 520	A/W 720	A/W 860	A/W 1040	A/W 1440
Power Supply	V/ph/Hz	380/3/50								
Performance (Heating)										
Heating capacity [1]	kW	196	278	357	427	518	722	854	1036	1444
Power Consumption	kW	50	70	90	109	132	185	218	264	370
COP		3,92	3,97	3,97	3,92	3,92	3,90	3,92	3,92	3,90
Capacity Control		On/Off								
Minimum Capacity	%	25	25	25	25	12,5	12,5	12,5	12,5	12,5
Performance (Cooling)										
Cooling capacity	kW	168	235	307	366	450	625	732	900	1250
Power Consumption	kW	52	74	97	115	140	197	230	280	394
EER		3,23	3,18	3,16	3,18	3,21	3,17	3,18	3,21	3,17
Refrigerant										
Fluid		R 410A								
Circuit	N°	1	1	1	1	2	2	2	2	2
Compressor										
Compressor Type		Screw								
Compressor Number	N°	1	1	1	1	2	2	2	2	2
Water Circuit										
Water Flow	m³/h	33,71	47,82	61,4	73,44	89,1	124,2	146,89	178,19	248,37
Pipe diameter	inç	4"	4"	5"	5"	5"	5"	5"	5"	5"
Fan										
Fan Type		AC Axial Fan								
Fan number	N°	4	6	8	10	10	14	16	20	28
Air flow	m³/h	72000	108000	144000	180000	180000	252000	288000	360000	504000
Noise Level										
Sound power	dBA	77	77	79	81	83	85	86	88	89
Weight and Size										
Weight	kg	2520	2800	3100	3700	4550	4700	5000	5250	5450
Width	mm	4000	4500	4800	6000	6000	6000	12000	12000	12000
Depth	mm	2250	2250	2250	2250	2250	2250	2250	2250	2250
Height	mm	2500	2500	2500	2500	2500	2500	2500	2500	2500

*For heating mode, Outdoor temperature 7 °C Water outlet temperature 35 °C
** For cooling mode, Outdoor temperature 35 °C Water outlet temperature 7 °C

Water Sourced Heat Pump

up to 17-2000 kW

General Information

- Works silently
- Efficiency and applicability combined
- It can produce cold water up to 7 °C.
- Easy assembly with monoblock (single body) structure
- Compact, durable, efficient and low energy cost

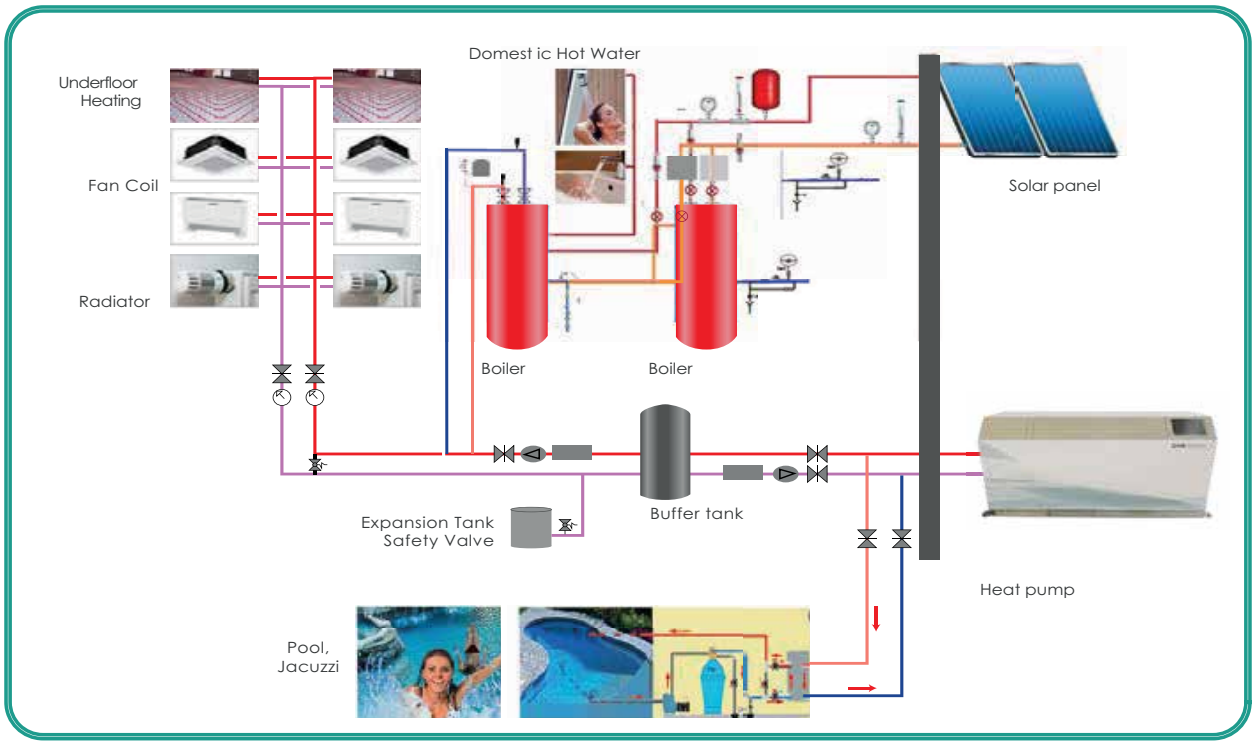
Common Uses

- House
- Hotel
- Factory
- Coop
- Medical Center
- Greenhouse
- Sludge Drying Areas

Optional

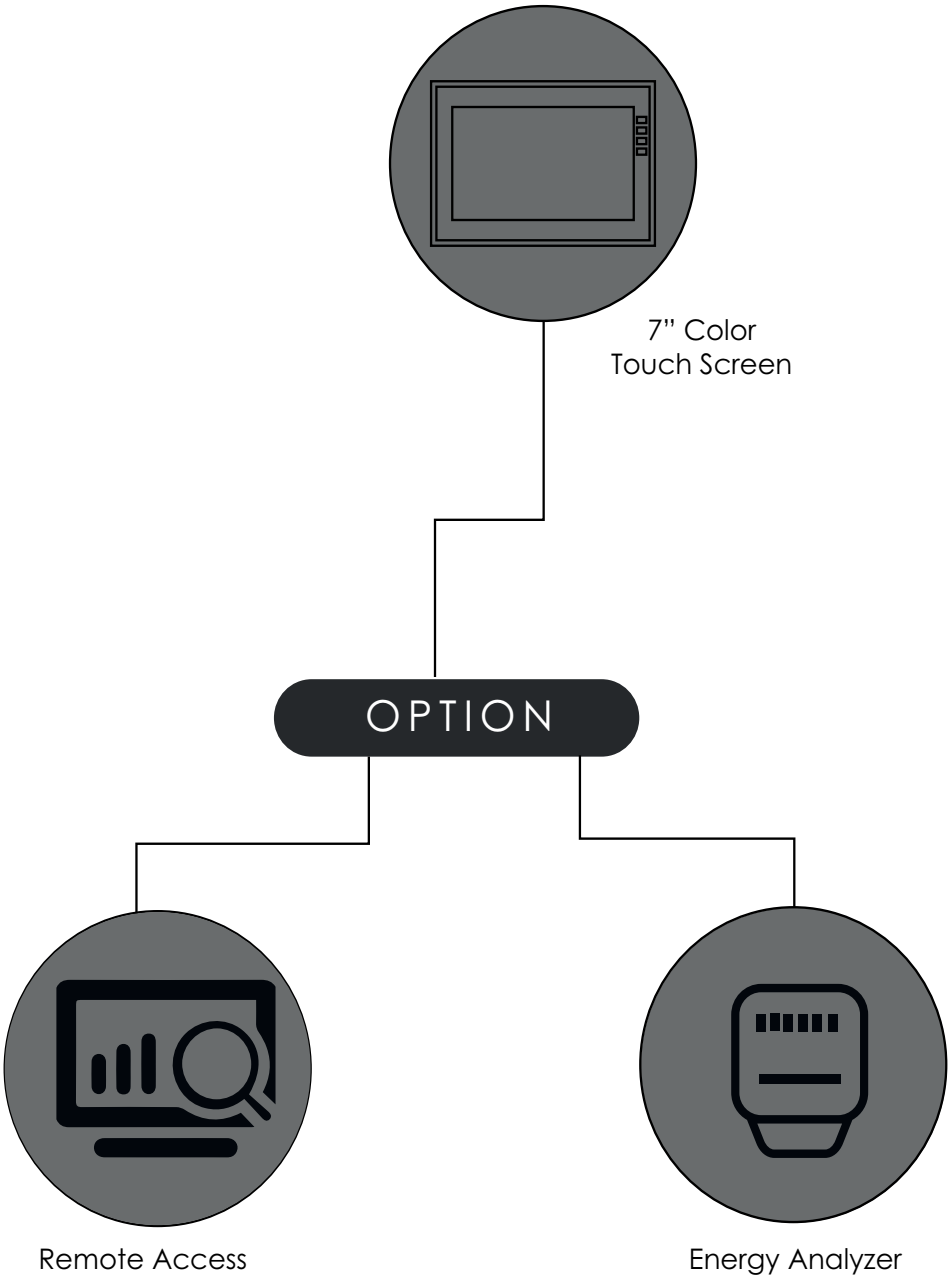
- It performs dehumidification, heating and cooling in air handling units simultaneously and in a single device.
- Thanks to its economizer, it provides 30% additional savings.
- It provides free hot water in summer with its heat recovery feature.
- Cascading feature
- Optionally, 80°C hot water can be produced.

GENERAL HEAT PUMP USAGE METHODS



WATER SOURCE HEAT PUMP
PRODUCT SPECIFICATIONS

OPTIONAL PRODUCTS



W/W SERIES

Model		W/W 17	W/W 28	W/W 34	W/W 60	W/W 90	W/W 130	W/W 190	W/W 240	W/W 280	W/W 350
Power Supply	V/ph/Hz	380/3/50									
Performance (Heating)											
Heating Capacity [1]	kW	17,2	27,43	35,91	62,5	86,5	131,88	190,5	240,85	281	352,5
Power Consumption	kW	3,5	5,5	7,2	12,3	16,9	27,3	38,2	47,1	55	67
COP		4,99	4,99	4,99	5,07	5,12	4,83	4,99	5,11	5,11	5,26
Capacity Control		On/Off						4 Level (%25 - %50 - %75 - %100)			
Minimum Capacity	%	100	100	100	50	50	50	25	25	25	25
Performance (Cooling)											
Cooling Capacity	kW	14	22,1	29,1	50,5	70,9	106,8	154,7	196	230	289
Power Consumption	kW	2,8	4,4	6	9,9	13,2	22,1	32,1	40	46	56,2
EER		5	5,02	4,85	5,1	5,37	4,83	4,82	4,9	5	5,14
Refrigerant											
Fluid		R134A									
Circuit	N°	1			2			1			
Compressor											
Compressor Type		Scroll						Screw			
Compressor Number	N°	1			2			1			
Water Circuit											
Water Flow	m³/h	2,96	4,72	6,18	10,75	14,88	22,7	32,77	41,43	48,33	60,63
Pipe diameter	inç	1 1/4"	1 1/2"	1 1/2"	2"	3"	3"	3"	4"	5"	5"
Noise Level											
Sound power	dBA	66	66	67	68	69	71	77	77	79	81
Weight and Size											
Weight	kg	220	250	300	500	550	600	1000	1050	1100	1200
Width	mm	1300	1300	1300	1550	1550	1550	2000	2000	2000	2000
Depth	mm	550	900	900	1200	1200	1200	2250	2250	2250	2250
Height	mm	1200						2500			

W/W SERIES

Model		W/W 450	W/W 500	W/W 650	W/W 900	W/W 1000	W/W 1200	W/W 1450	W/W 1670	W/W 1800	W/W 2000
Power Supply	V/ph/Hz	380/3/50									
Performance (Heating)											
Heating Capacity [1]	kW	450	499	652	900	998	1188	1450	1668	1818	2050
Power Consumption	kW	85,2	95	123	170,5	190	225	275	308	329	369
COP		5,28	5,25	5,30	5,28	5,25	5,28	5,27	5,42	5,53	5,56
Capacity Control		4 level (%25 - %50 - %75 - %100)									
Minimum Capacity	%	12,5	12,5	12,5	12,5	12,5	12,5	12,5	12,5	12,5	12,5
Performance (Cooling)											
Cooling Capacity	kW	370	410	538	740	820	980	1198	1378	1504	1700
Power Consumption	kW	71,7	79	103	143,4	158	188	225	255	275	299
EER		5,16	5,19	5,22	5,16	5,19	5,21	5,32	5,4	5,47	5,69
Refrigerant											
Fluid		R134A									
Circuit	N°	2									
Compressor											
Compressor Type		Screw									
Compressor Number	N°	2									
Water Circuit											
Water Flow	m³/h	77,4	85,8	112,14	154,8	171,66	204,34	249,4	286,9	312,7	352,6
Pipe diameter	inç	5"	5"	5"	5"	6"	6"	6"	6"	6"	6"
Noise Level											
Sound power	dBA	83	85	79	81	83	81	83	85	79	81
Weight and Size											
Weight	kg	1500	1550	1600	2000	2100	2200	2300	2400	3000	3100
Width	mm	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500
Depth	mm	2250	2250	2250	4500	4500	5000	5000	5000	5500	5500
Height	mm	2500									

PANEL AIR CONDITIONERS

PANEL AIR CONDITIONERS

Panel Air Conditioner

Up to 350-5000 Watts

CoolAer

Indoor and Outdoor Panel Air Conditioners

CoolAer indoor and outdoor panel air conditioner performs its cooling function even under the most difficult conditions with advanced technology and collects dust and similar particles. CoolAer panel air conditioner, which homogeneously climatizes the environment it is in, has a plug-and-play feature and has a very low energy usage cost. Special condenser and evaporator design ensures High Performance even in very high humidity environments. The fully automatic CoolAer panel air conditioner keeps the ambient temperature at a constant level. There is a wide range of products in the range of 350 - 5000 Watts. You can provide remote access with the optional modbus feature.

- They are devices used for air conditioning of cabinets and panels.
- Domestic and National Production
- It is used for temperature control in outdoor or indoor cabins.
- Cooling capacity range from 300W to 5000W
- Automatic shutdown when the panel cover is opened
- Automatic operation feature when power is on
- Long running life

Optional

- Soft starter
- Phase protection relay
- Ec fan
- Heating feature with electric heater
- Wide working range with fan speed control
- Modbus
- Manual type

Outdoor

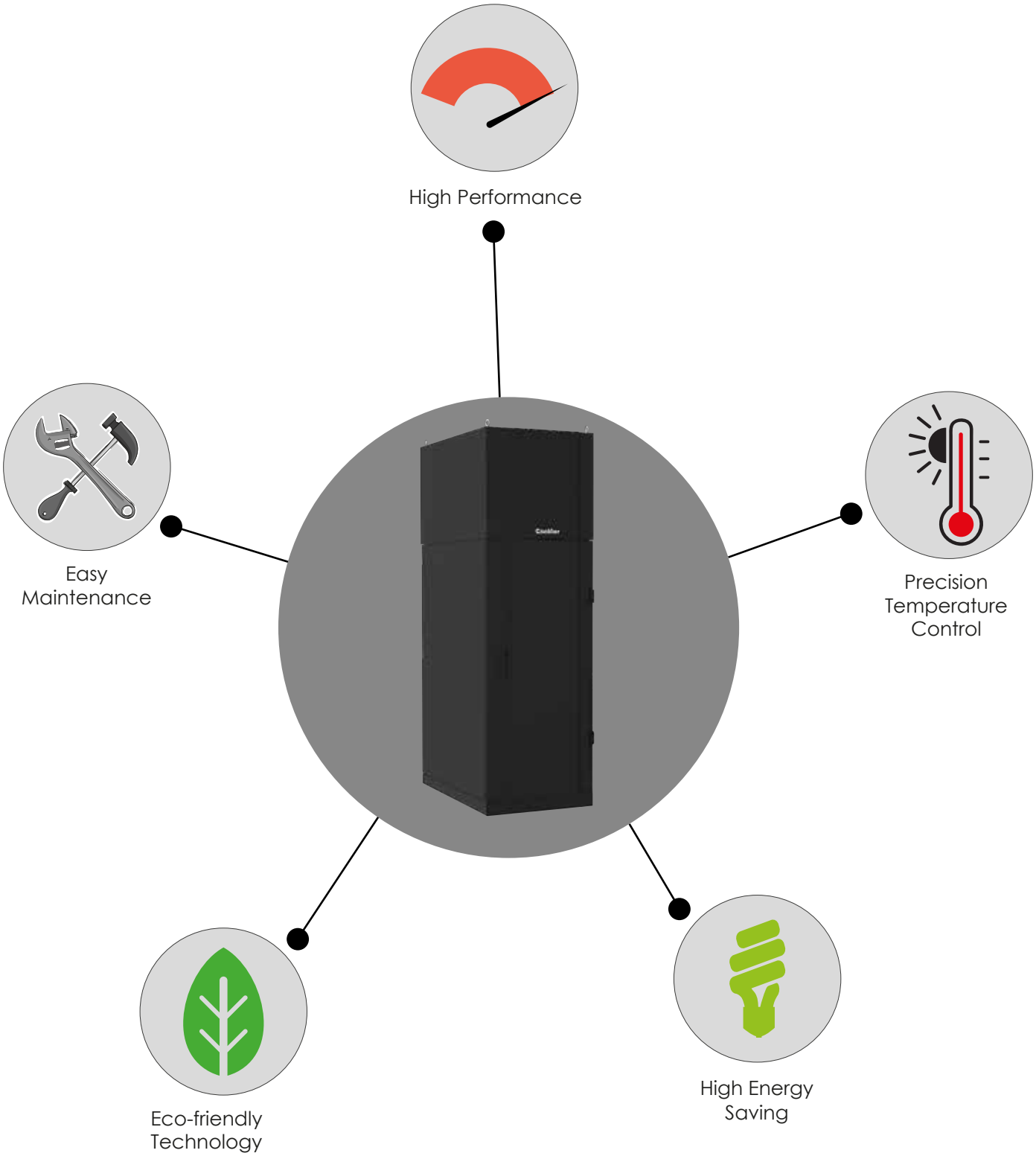
Indoor

Technical Specifications	CPK-350	CPK-500	CPK-800	CPK-1000
Cooling capacity I35 I35 / I35 I50	385 W/352 W	515 W / 414 W	765 W / 720 W	1007 W / 910 W
Refrigerant	R134a			
Amount of Refrigerant	250 gr	300 gr	375 gr	425 gr
Evaporator fan flow rate	125 m³/h	150m³ /h	200m³ /h	300 m³ /h
Condenser fan flow rate	320 m³/h	400 m³/h	550 m³ /h	750 m³ /h
Power Supply	220v-1Ph-50/60Hz	220v-1Ph-50/60Hz	220v-1Ph-50/60Hz	220v-1Ph-50/60Hz
Power Consumption I35 I35 / I35 I50	202 W / 229 W	258W / 297 W	400 W / 449 W	457 W / 514 W
Weight	19 kg	21,5 kg	24,5 kg	35 kg
Height x Width x Depth	550 x 300 x 215	550 x 300 x 215	630 x 300 x 215	780 x 405 x 230
Protection class	IP 54			
Outdoor working range	0C+55 °C/ -40 °C+55 °C *Optional feature available.			
Db(A)	63db *Measured from 5m in open area.			
Heating capacity	350 W	500 W	800 W	1000 W

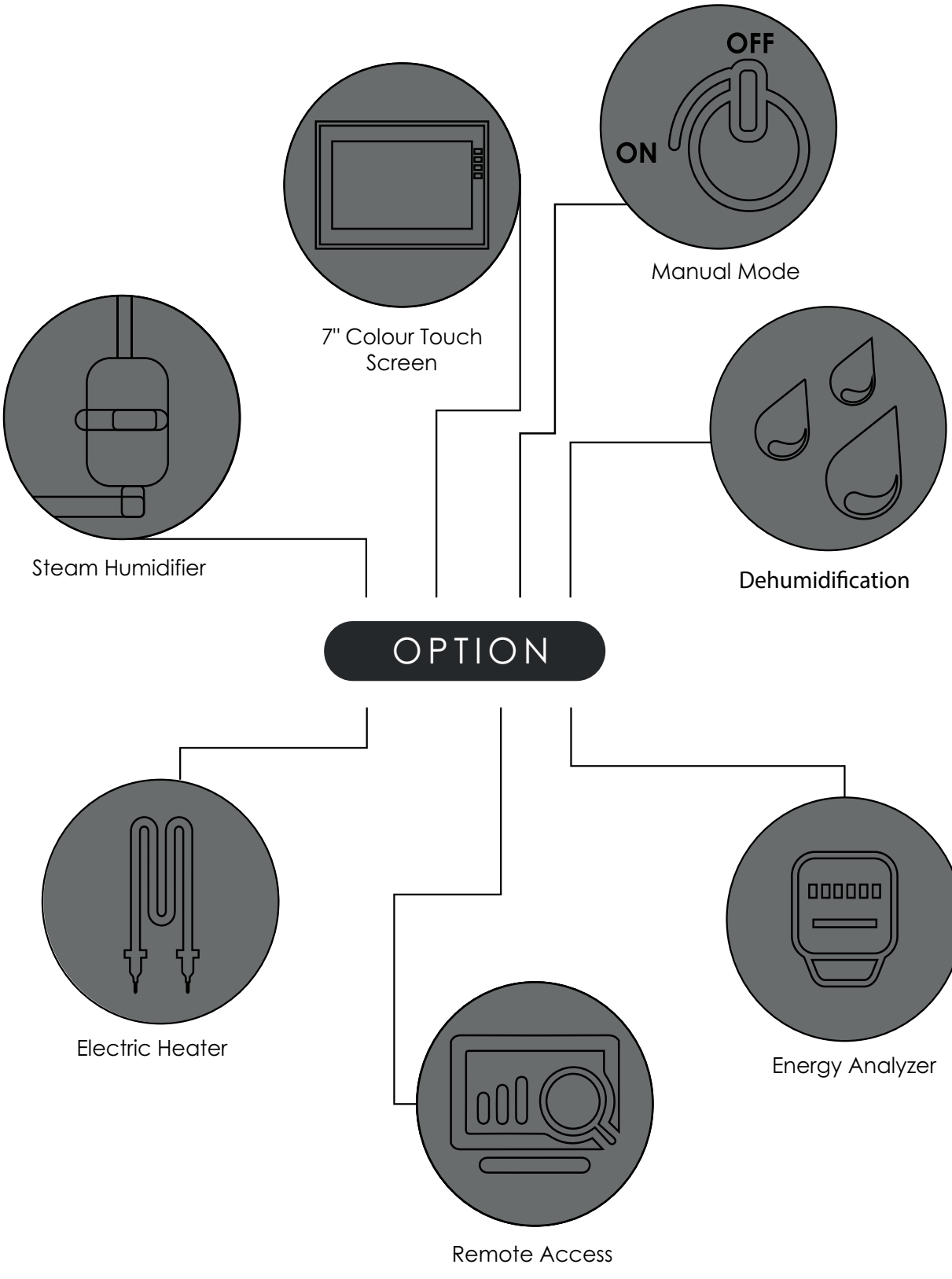
Technical Specifications	CPK-1500	CPK-2000	CPK-2500	CPK-3500	CPK-5000
Cooling capacity I35 I35 / I35 I50	1522 W / 1412 W	2202 W / 1710 W	2521 W / 2113 W	3660 W / 2750 W	4790 W / 4250 W
Refrigerant	R134a				
Amount of Refrigerant	500 gr	550 gr	650 gr	970 gr	2300 gr
Evaporator fan flow rate	400 m³ /h	600 m³ /h	630 m³ /h	950 m³ /h	1400 m³ /h
Condenser fan flow rate	850 m³ /h	1350 m³ /h	1350 m³ /h	1600 m³ /h	1 00 m³ /h
Power Supply	220v-1Ph-50/60Hz	220v-1Ph-50/60Hz	220v-1Ph-50/60Hz	220v-1Ph-50/60Hz	220v-1Ph-50/60Hz
Power Consumption I35 I35 / I35 I50	625 W / 701 W	863 W / 947 W	1214 W / 1312 W	1381 W / 1496 W	1850 W / 2000 W
Weight	39 kg	40 kg	45 kg	55 kg	90 kg
Height x Width x Depth	900 x 405 x 230	950 x 405 x 235	1050 x 415 x 250	1050 x 415 x 250	1350 x 620 x 300
Protection class	IP 54				
Outdoor working range	0C+55 °C/ -40 °C+55 °C *Optional feature available.				
Db(A)	63db *Measured from 5m in open area.				
Heating capacity	1500 W	2000 W	2500 W	3500 W	5000 W

CoolAer

CEILING PANEL AIR CONDITIONER
PRODUCT SPECIFICATIONS



OPTIONAL PRODUCTS



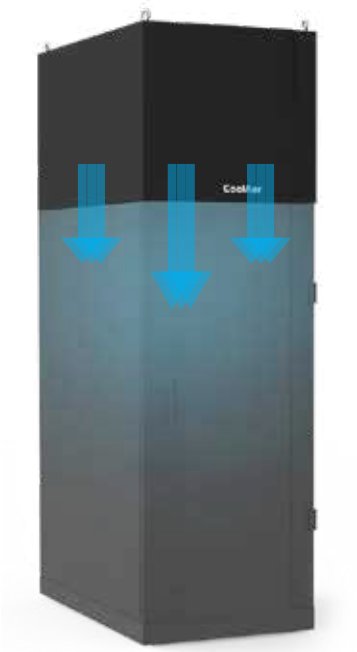
Ceiling Type Panel Air Conditioner (2.000 W and 4.000 W)

Specifications

- 2 kW and 4 kW cooling capacity
- User-friendly 7" color touch screen and graphic viewer option
- Compact Design with Rack Cabinet
- Winter work kit
- Eco-friendly refrigerant
- High efficiency at full load
- Precision cooling according to return air temperature
- High EER value
- Cools only the rack cabinet instead of the whole room
- No raised floor required
- Wide Working Range (-20 °C +55 °C)
- The outdoor unit connection pipes can come from both sides or the rear of the unit, optionally.
- Optional remote access via Modbus RTU and Modbus TCP/IP
- Soft start possibility with Softstarter option on the compressor

Optional

- Soft starter
- Phase protection relay
- Ec fan
- Heating option with electric heater
- Wide working range with fan speed control
- Modbus
- Manual type

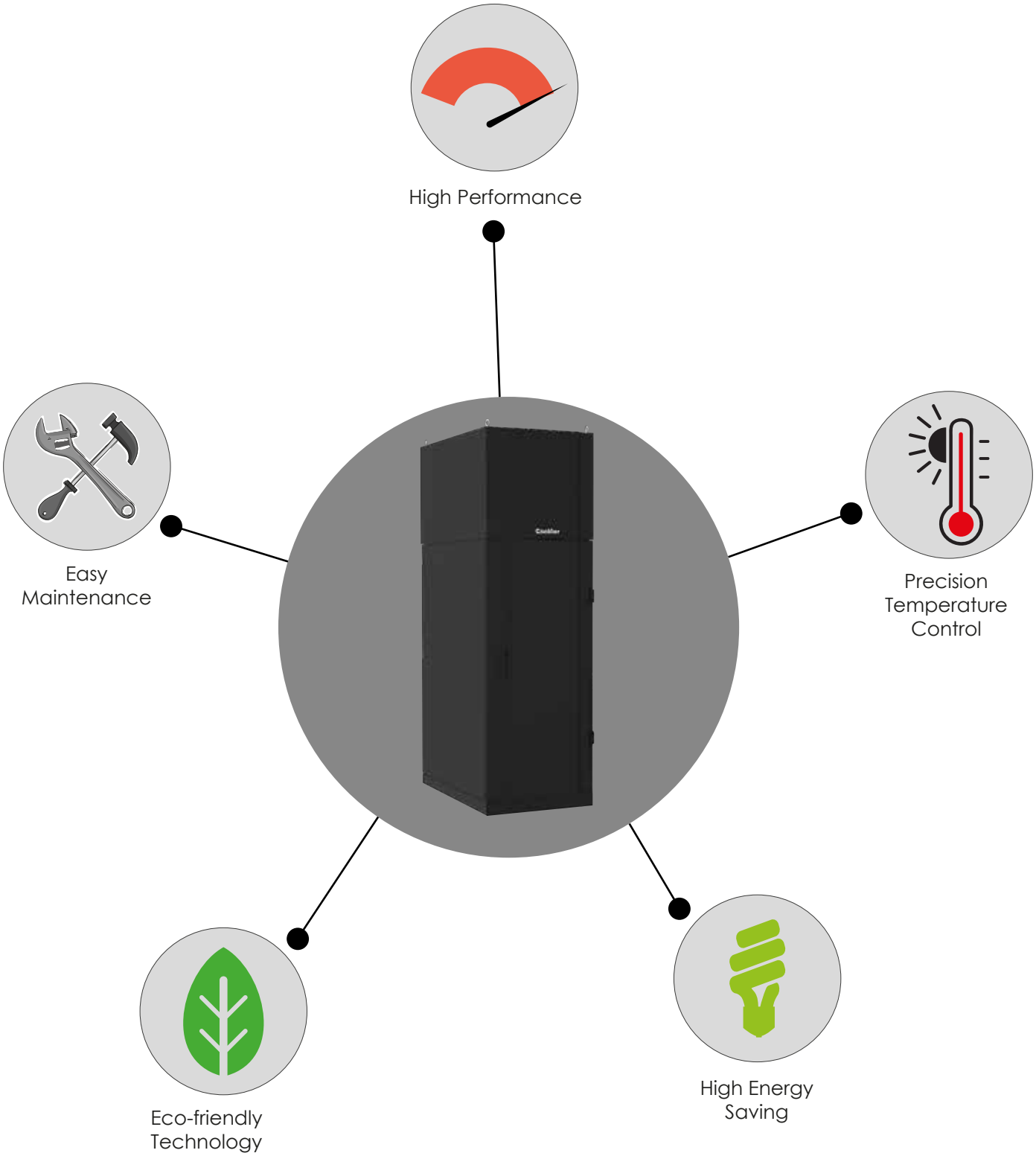


COOLING UNIT TECHNICAL SPECIFICATIONS

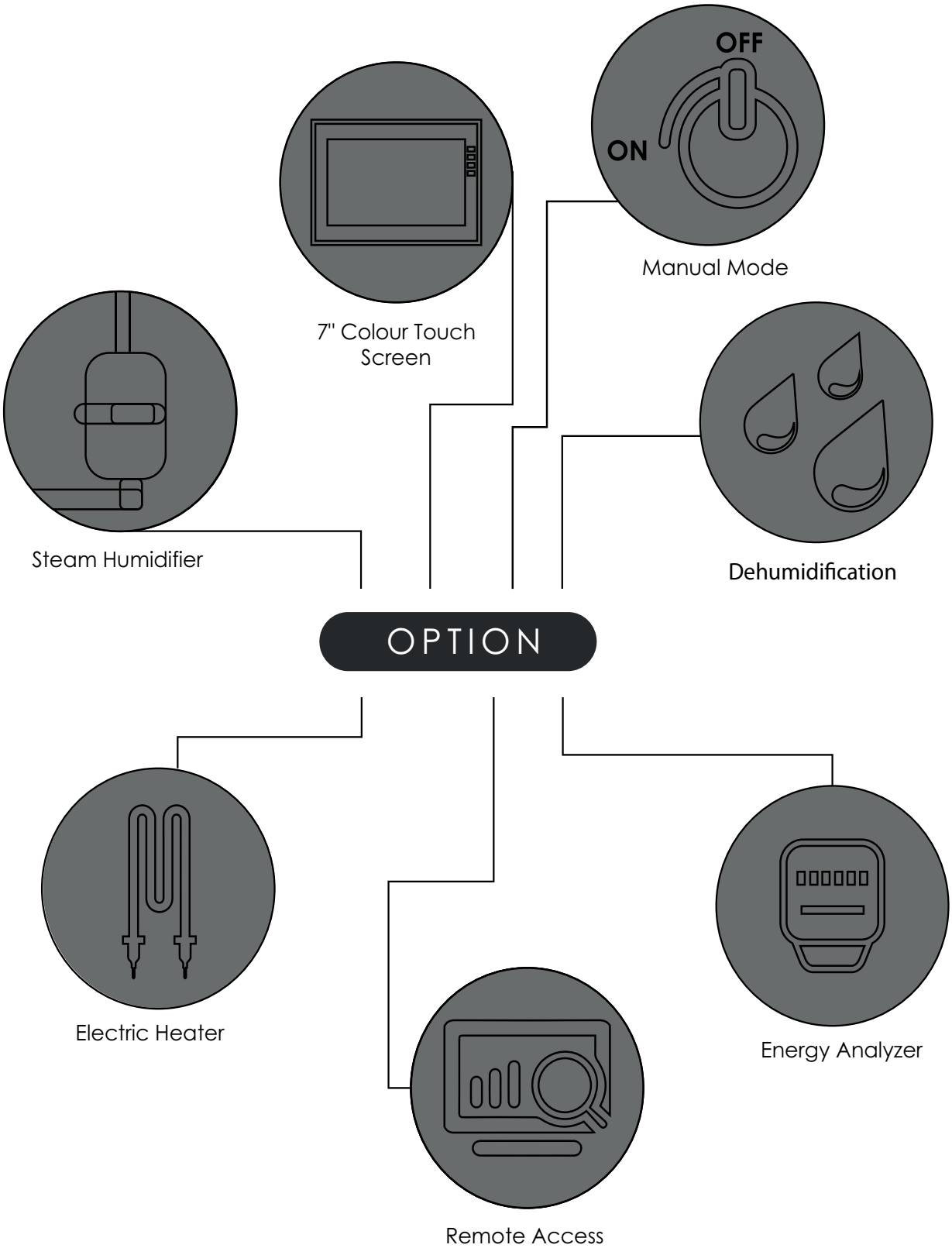
Technical Specifications	MCDC 2	MCDC 4
Cooling Capacity	1,9 kW	3,9 kW
Refrigerant	R410A	R410A
Fan Flow	800 m³/h	1600 m³/h
Energy Supply	230V / 1 Ph / 50-60 Hz	230V / 1 Ph / 50-60 Hz
Weight (42U)	135 kg	145 kg
Weight (47U)	144 kg	159 kg
Height x Depth x Width (42U)	1982 x 1000 x 600 (mm)	1982 x 1000 x 600 (mm)
Height x Depth x Width (47U)	2042 x 1200 x 600 (mm)	2042 x 1200 x 600 (mm)
Sound Pressure Level	55 dB(A)	55 dB(A)
Operating Temperature Range	23°C %60 RH	50°C %20 RH

CEILING PANEL AIR CONDITIONER

PRODUCT SPECIFICATIONS



OPTIONAL PRODUCTS



Panel Air Conditioner with Outdoor Unit (Split Type)

Outdoor Unit Panel air conditioners are industrial type panel cooling systems consisting of separate evaporator and condenser units. Since it consists of independent units, it is a structure where the condenser operates away from adverse operating conditions and the evaporator (indoor unit) operates independently of ambient conditions.

Panel Air Conditioners with Outdoor Units purify the device they are placed from dust in the environment that can damage the device, and in addition, they are not affected by high-capacity thermal loads and any adverse environmental conditions. Panel Air Conditioners provide thermal stability and offer ideal solutions by using the air in the environment in a closed cycle.

Optional

- Soft starter
- Phase protection relay
- Ec fan
- Heating feature with electric heater
- Wide working range with fan speed control
- Modbus
- Manual type

Technical Specifications	8		14	
	min.	max	min.	max
Cooling Capacity [1]	4,08 kW	8,36 kW	5,07 kW	14,52 kW
Cooling Capacity [2]	4,4 kW	8,96 kW	5,42 kW	15,57 kW
Cooling Capacity [3]	4,72 kW	9,6 kW	5,86 kW	16,7 kW
Refrigerant	R410A		R410A	
Evaporator Fan Flow	2750 m³/h		2750 m³/h	
Condenser Fan Flow	2750 m³/h		4800 m³/h	
Power Supply	230V / 1 Ph / 50-60 Hz		230V / 1 Ph / 50-60 Hz	
Power Consumption	2,64 kW		4,46 kW	
Weight (42U)	188 kg		193 kg	
Height x Depth x Width (42U)	890 x 1200 x 2102 (mm)		890 x 1200 x 2102 (mm)	
Weight (47U)	202 kg		208 kg	
Height x Depth x Width (47U)	890 x 1200 x 2324 (mm)		890 x 1200 x 2324 (mm)	
Sound Pressure Level	49 dB(A)		55 dB(A)	

.....1: Ambient Temperature 35 °C Return A ir Temperature 35 °C Relat ive Humidity 20%

.....1: Ambient Temperature 35 °C Return A ir Temperature 37 °C Relat ive Humidity 20%

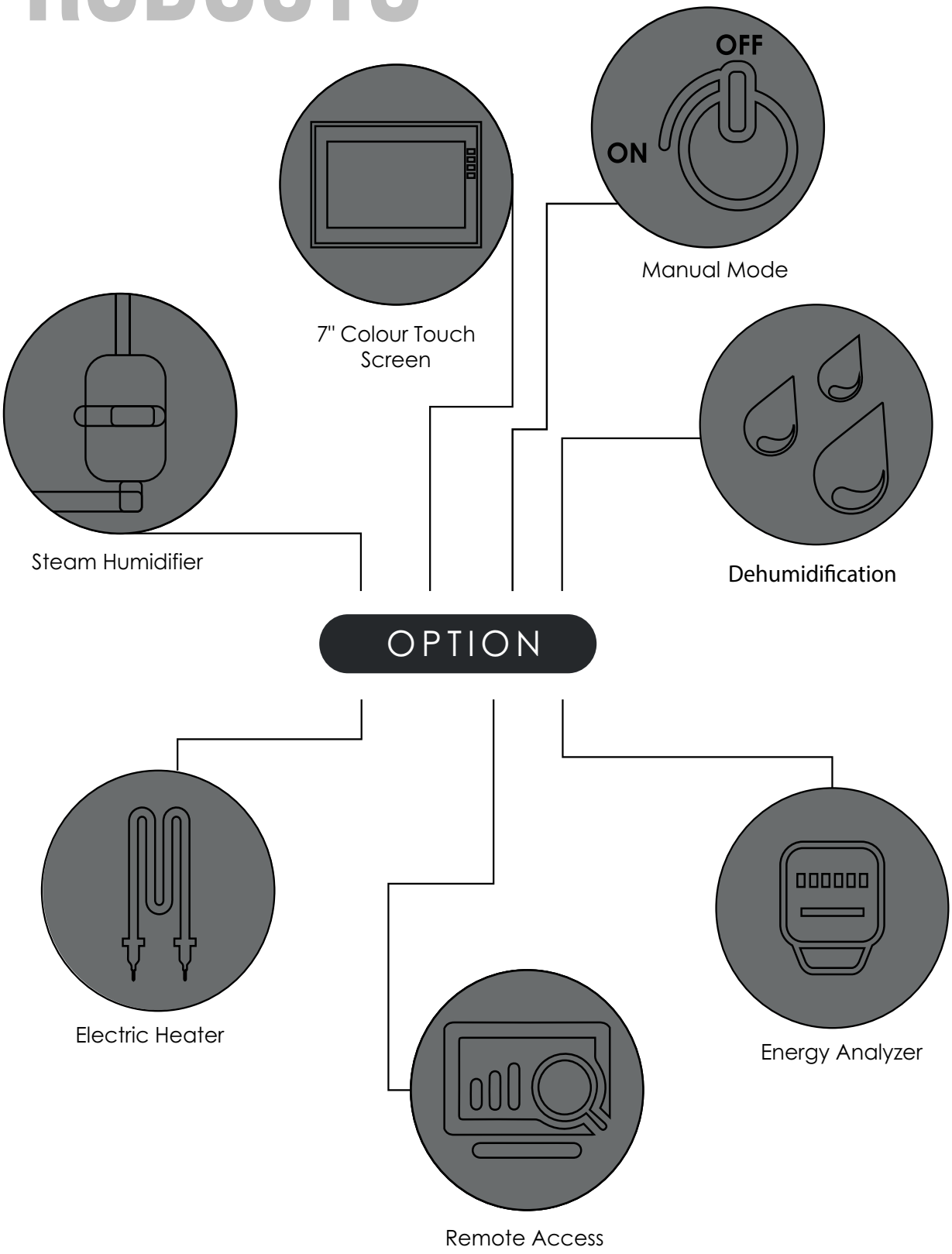
.....1: Ambient Temperature 35 °C Return A ir Temperature 39 °C Relat ive Humidity 20%

Outdoor Unit Information	8	14
Compressor Number	1	1
EER	3,17	3,2
Outdoor Unit Power Supply	380V / 3 Ph / 50-60 Hz	380V / 3 Ph / 50-60 Hz
Height x Depth x Width	1081 x 387 x 729 (mm)	1084 x 405 x 1135 (mm)
Sound Pressure Level	49 dB(A)	55 dB(A)

PANEL AIR CONDITIONER WITH OUTDOOR UNIT (SPLIT)

PRODUCT SPECIFICATIONS

OPTIONAL PRODUCTS



FREE COOLING BOX

Free Cooling Box

FC (2350-3950-5350)

Up to 787-1350-1790 W

Free Cooling System

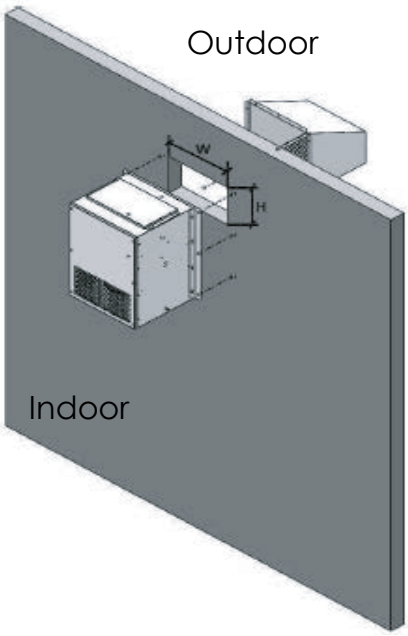
Free Cooling System is the devices that directly cool the hot air formed inside by free cooling method by filtering the air taken from outside under suitable seasonal conditions and sending it to the rooms. They work integrated with existing air conditioning systems. It provides cooling by achieving high energy efficiency in data center, switchboard rooms and factory processes.

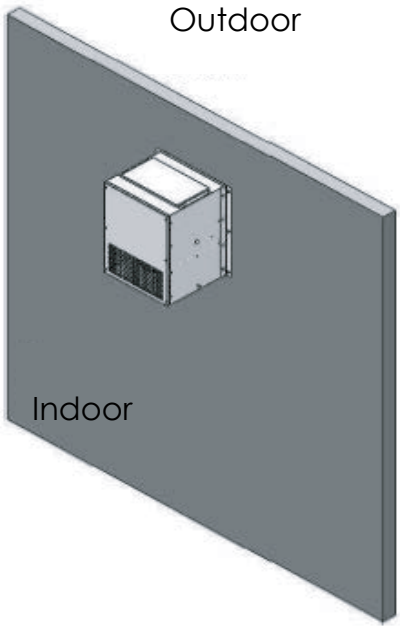
- 787- 1350-1790 Watt cooling capacity
- High efficiency with free cooling feature
- Outdoor and indoor compatible design
- EC Fan Technology
- Class A Equipment
- Communication with other cooling systems

TECHNICAL SPECIFICATIONS	FC 2350	FC 3950	FC 5350
Operating Temperature	-20/40 °C	-20/40 °C	-20/40 °C
Cooling Capacity	787 W/K	1350 W/K	1790 W/K
Cooling Power (T=5°C)	3.94 KW	6,7 KW	8.96 KW
Air Flow	2350 m3/h	3950 m3/h	5350 m3/h
Maximum Absorbed Current	5.5 A	11A	15 A
Voltage Range	36-57 VDC	36-57 VDC	36-57 VDC
Power Consumption	270 W	385 W	742 W
Sound Level (Max. rpm)	60 dBA	65 dBA	75 dBA
Filter Type	G2+G3	G2+G3	G2+G3
Protection Class	IP 54	IP 54	IP 54
Dimensions (W*D*H) mm	500*470*670	565*590*730	565*590*730
Weight (Included in Package)	58 kg	71 kg	90 kg

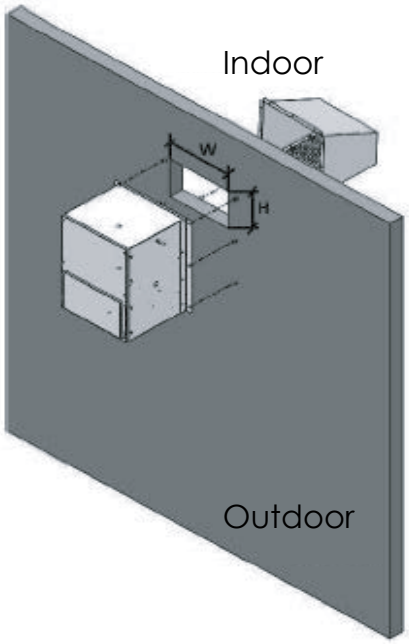
INSTALLATION

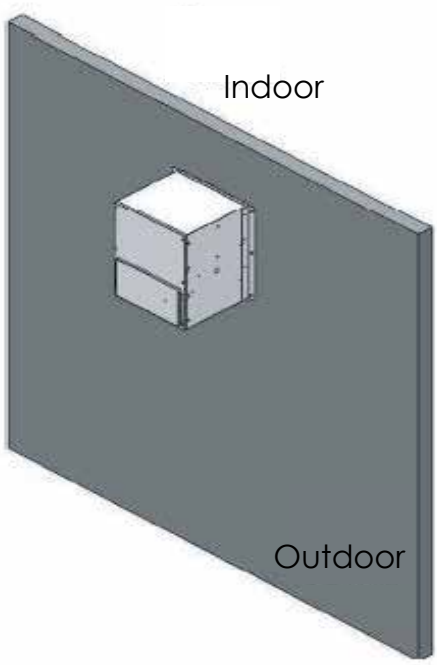
INDOOR





OUTDOOR





Scope of Application

Rooms Requiring Precision Cooling

Data Center Rooms

Laboratories

Hospitals

Computer Rooms and Control Rooms

Industrial Panel Rooms

Museums

Archive Rooms

Airports

Base stations

Industrial Process Areas

Mines

NOTES:

NOTES:

CoolAer

HEATING & COOLING SYSTEMS

PRODUCT CATALOGUE

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