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PRECISION COOLING SYSTEM

DATA COOL SERIES

AIR COOLED / WATER COOLED / CHILLED-WATER COOLED

Products and Solutions

01

- Data Center Solution : Micro Data center, Modular Data Center, Prefabricated Container Data Center.
- Critical Power : PDU, UPS, DC Power System, Lead Acid Battery, Lithium battery.
- Thermal Management Solution : Room /In row precision air conditioner, Fluorine pump air conditioner Liquid cooling, Free cooling.
- PV Energy Storage : PV, Inverter, Energy Storage System.

02

- Shuyi attaches great importance to product innovation and research and development. Having industry-leading power electronics research and development centers, testing centers, and laboratories.

03

- At present, we have established industry-leading electromagnetic compatibility laboratories, including Enthalpy difference laboratory, Environmental reliability laboratory, Noise laboratory, Vibration laboratory, Power laboratory, and IP protection laboratory. We have obtained ISO9001 quality management system certification, ISO14001 environmental management system certification, and the products have been certified by CE, ICE, UL certification.

COMPANY

PROFILE

Shuyi digital power, based on the core technology of power electronics, integrates innovative digital technology, provides comprehensive solutions for data center, high-end power supply and clean energy, promotes the transformation and development of digitalization and low-carbon energy in government, finance, industry, communication, transportation, Internet and other industries.

INTRODUCE

With over 10 years of development, we have exported our various kinds of products and solutions to 86 countries and have branches and offices in over 55 countries and regions. Our products and solution won a good reputation in quality and service.

Mission

Committed to innovation in digital energy technology and building a green and intelligent future.

Vision

Serve global customers and become a leading expert in digital Power infrastructure.

SOETECK

Hefei Shuyi Digital Power Co., Ltd.

Product Introduction

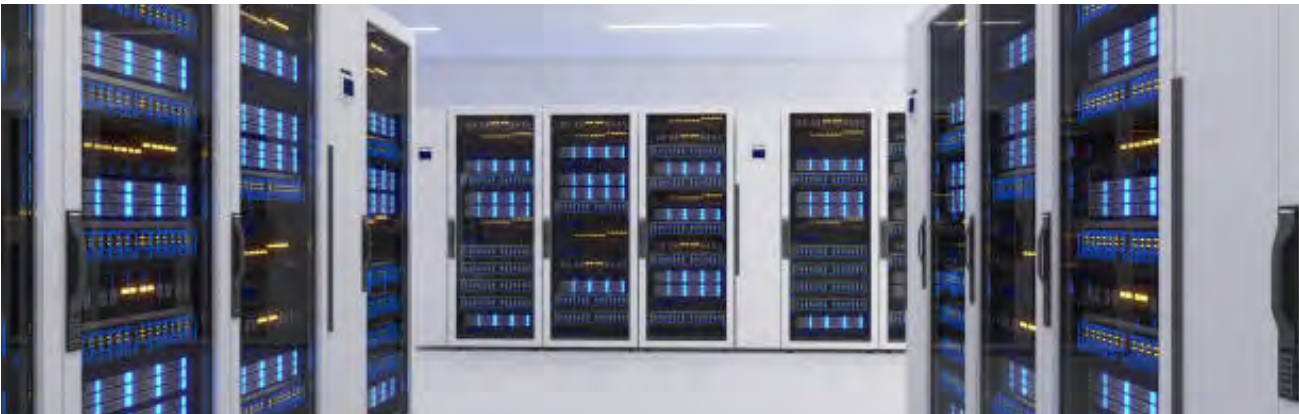
- Introduction

Room precision air conditioning system adopts international cutting-edge constant temperature and constant humidity technology, which is designed and developed for a precision environment. This series of products is dedicated to equipments with high precision control requirements of temperature, humidity, and cleanliness and requires equipment continuous operation 24 hours*365 days.



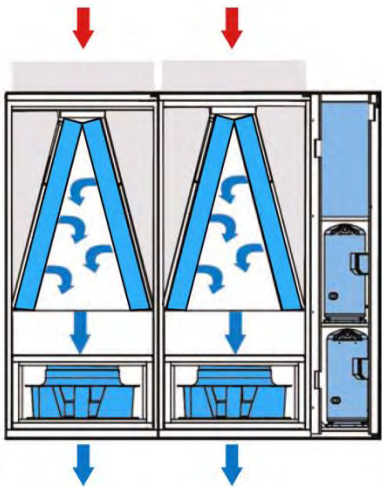
- Application

- Computer room and data center
- Switch room and mobile center station in telecommunication
- High-tech environment and lab
- Industrial automation control room and precision manufacturing workshop.
- Standard test room and calibration center
- UPS and battery room
- Test room in the hospital
- Biochemical culture room

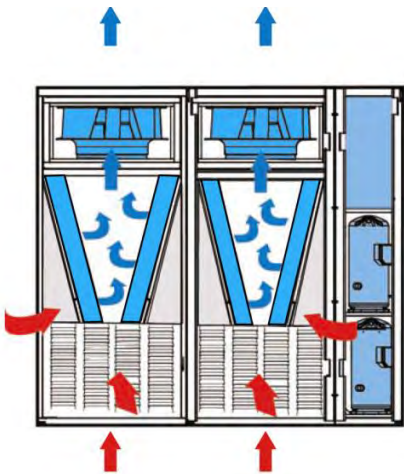


Product Configuration

- Downflow



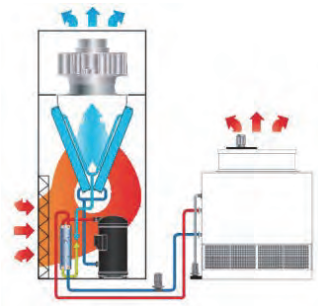
- Upflow



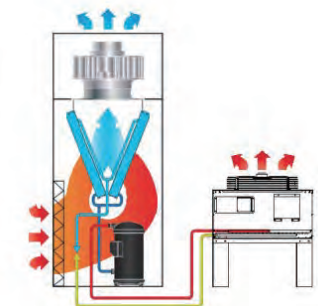
- Options

- Long Piping Kit
- Low-temperature Kit
- Water Leaking Kit
- RS485/ SNMP Network Monitoring Card
- Automatic Phase Switching Module
- Lightning Protection Module
- High-power Electric Heating System
- Large Color Display
- Remote Temperature and Humidity sensor
- Ultra-quiet Air-cooled Outdoor Condenser

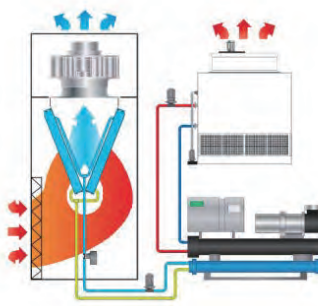
Cooling Type



Water - cooled



Air - cooled

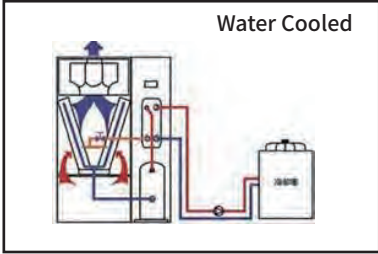
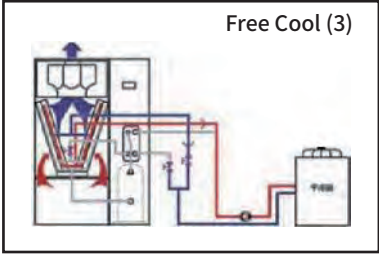
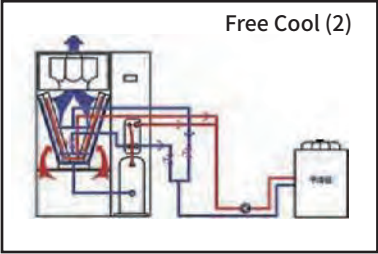
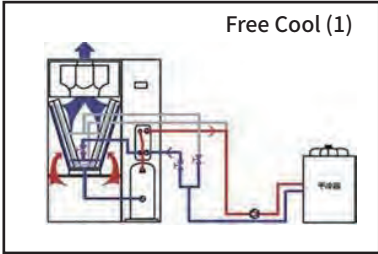
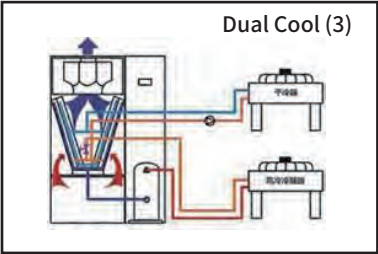
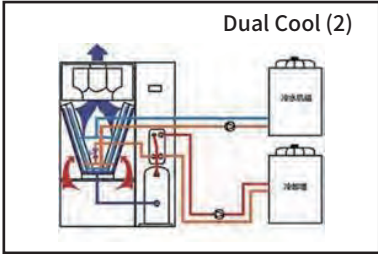
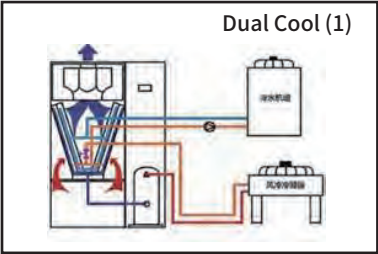
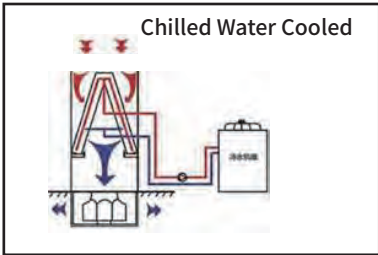
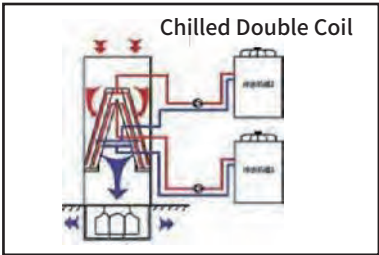
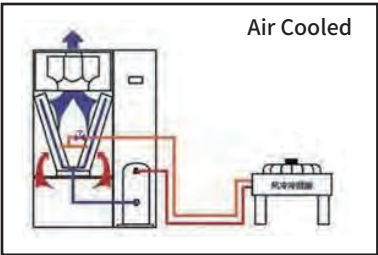


Chilled water

Model Configuration

SY	Company identification	SOETECK
RC	Unit type	Room cooling
MA	Structural form	Standard construction/Modular structure
30	Nominal cooling capacity	30KW
U/D	Upward air supply and forward air return	Downdraft and updraft

- air-cooled, water-cooled, glycol-cooled, chilled water cooled , chilled double coil type, CW+DX Dual Cool (air-cooled chilled water, water-cooled chilled water, glycol cool chilled water), There are more than ten kinds of cooling type, such as glycol free cooling, etc., to meet various types of application requirements.

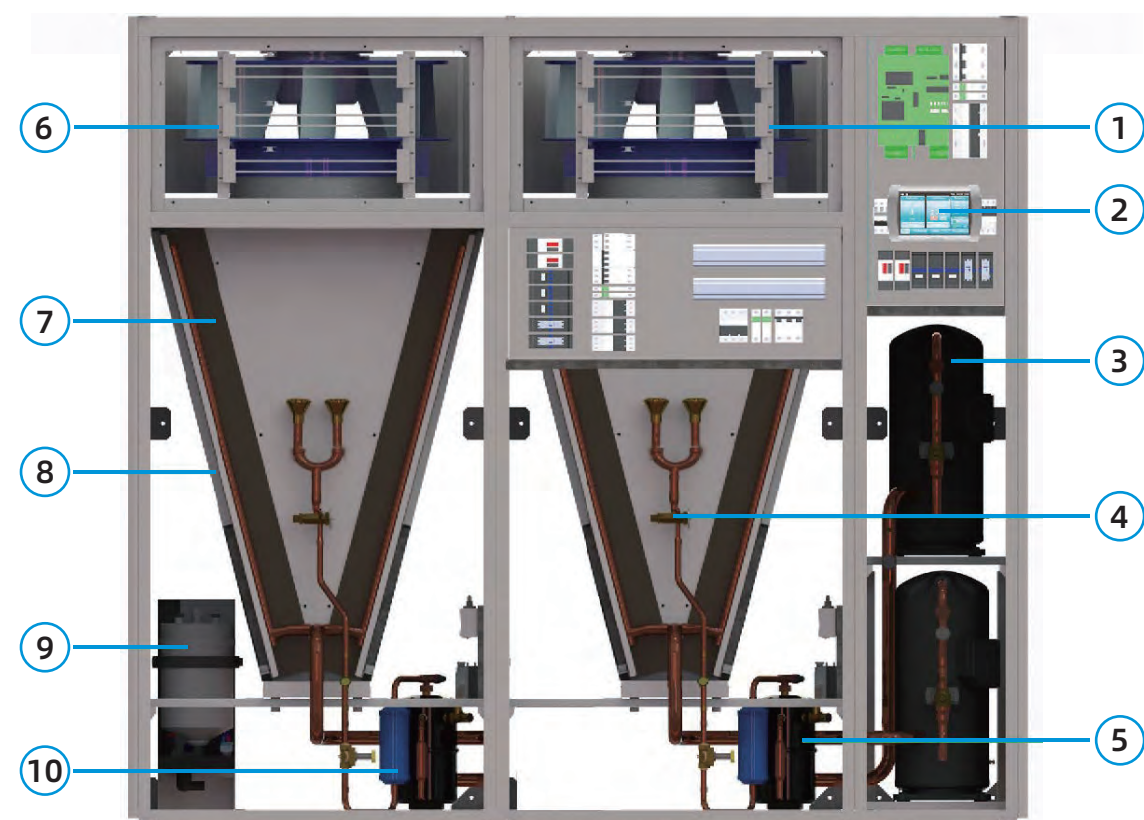


Various Cooling System

Premium performance

Working environment	Operating voltage and frequency: 380V±10% 50±3Hz Temperature range: -40~50°C
Air volume of each fan	2250 - 27100 m³/h
Cooling capacity range	7.5 - 122.9KW
Energy efficiency ratio (EER)	EER ≥ 3.0
External static pressure (ESP)	20 - 300Pa
Set Temperature	15 - 35 ±1%
Set Humidity	30-80% ±5%
Filter screen grade	> G4
Protection functions	System protection : The system is equipped with phase sequence protection, over/under voltage protection and phase loss protection as standard, with optional surge protection, phase sequence fault tolerance and water leakage alarm. Component protection : Standard configuration as compressor protection, fan alarm, temperature and humidity sensor failure, humidifier protection, heater protection, optional filter blocking alarm, etc.
Monitoring functions	Supports RS - 485 communication interface and MODBUS RTU protocol (standard) Supports Ethernet interface, and supports MODBUS TCP, SNMP, HTTP and other protocols (optional) Supports WEB based access to the unit (optional)
IP Class	IP54 (outdoor unit), IP20 (indoor unit)
Insulation Level	F
Fire protection grade	A
Safety devices	Optional smoke alarm, fire alarm
Informative interface	A) Display specification: 7" touchscreen colour display as standard. B) Contents of the display: 1. Real-time operating status of the unit. 2. Automatic maintenance prompts, fault diagnosis, component alarm messages, etc. 3. Graphical display of temperature and humidity curves, output status of all components and component running time. C) Information recording time: 1. the operating time of the entire unit and its components. 2. all operational actions of the unit. 3. 500 historical alarm records.
Other features	Energy efficient units with EER greater than 3.6 Multiple supply and return air temperature control methods Variable set point control

High-quality structure and component



- **1 - PTC Electric Heater**
Three-stage electric heating, with perfect overheat protection and air ionization prevention function.
- **2 - Intelligent control system**
7-inch touch screen, operating status and alarm display,advanced human-machine interface, realize simple and fast operation, professional, energy-saving and intelligent functions.
- **3 - Scroll compressor**
Flexible scroll compressor with high efficiency, optional EC compressor, which can regulate cooling capacity from 10% to 100%, candynamically output cooling capacity according to demand, energy saving, and high efficiency.
- **4 - Expansion valve**
Adopting internationally renowned high-quality brands, the products have excellent performance, high sensitivity and are easy to replace.
- **5 - Fluid storage tank**
The standard fluid storage tank ensures that the system can operate normally in any environment.
- **6 - High-efficiency fan**
EC fan, backward-inclined EC fan,has the advantages of high efficiency, energy saving, low noise, and continuously adjustable air volume.
- **7 - Evaporator**
Hydrophilic fins, internally threaded copper tubes, efficient design, and hair removers with advanced technology are corrosionresistant,long-life, and highrate, fully matching with compressors and other refrigeration system components.
- **8 - Air filter**
The metal frame G4 standard filter can be repeatedly washed down to reduce running costs.
- **9 - Humidifier**
The electrode humidifier uses tap water and has an automatic cleaning function.It can quickly produce pure steam and can be repaired without stopping the machine.
- **10 - Drying filter**
It has efficient acid removal,filtering and drying capabilities to ensure reliable system operation.

Room Cooling DX Cooled Series

- **Precise temperature and humidity Control**
 - Datacool has a constant temperature and humidity function, temperature control accuracy of $\pm 1^{\circ}\text{C}$ and relative humidity control accuracy of $\pm 5\%$
- **Intelligent Communication Function**
 - RS 485 standard interface is compatible with Modbus protocol. Through the communication interface, Can be access Dynamic environment monitoring DCIM, BMS, remote monitoring systems
- **Wide Range of Cooling Capacity**
 - 7.5 KW - 122.9 KW
 - Single circuit indoor unit, dual circuit indoor unit
 - Single circuit condenser, dual circuit condenser
- **High Reliability**
 - Strictly complied with CE and IEC standards
 - High quality components with strict certification
 - Strict factory testing and commissioning before delivery
- **High Adaptability**
 - Multi-air discharge choices including Down flow and Up flow and soon
 - Multiple monitoring interface
 - Suitable for various ambient temperature (Optional low temperature kits)
 - Customized design available
- **High Energy Efficiency**
 - Efficient and quiet flexible scroll compressor
 - Efficient EC fan, continuous airflow adjustment
 - Controller ensure s optimum cooling efficiency
 - Electrode humidifier to realize precise humidity control
 - Precision Electronic Expansion Valve precision cooling control

Environment Friendly Refrigerant : R410 A



Technical Data

UpflowUnit/Downflow Unit Model:SYRC	MA07 U/D	MA12 U/D	MA17 U/D	MA20 U/D	MA25 U/D
Cooling Capacity -kW	7.5	12.5	17.5	21.2	27.5
Sensible Capacity -kW	6.8	11.3	15.9	19.1	25
SHR-%	90.7	90.4	90.9	90.1	90.9
Air Volume -m³/h	2250	2850	5000	6200	6700
Fan Type	AC / EC	AC / EC	AC / EC	AC / EC	AC / EC
Heating Capacity -kW	3	4	6	6	6
Heating Type	PTC	PTC	PTC	PTC	PTC
Hum.Capacity -kg/h	2.5	4	4.5	4.5	5
Humidifier Type	Electrode	Electrode	Electrode	Electrode	Electrode
Filter Rating	G3	G3	G4	G4	G4
Weight -kg	128	178	300	318	338
Width-mm	550	650	750	750	850
Depth-mm	450	550	700	700	700
Height -mm	1750	1850	1900	1900	1900
Power Input 1)	208-240V /50Hz/60Hz /1Ph/2Ph	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph
FLA -A 1)cooling	16.5	13.1	14.3	19.4	23.1
FLA -A 1)with heating/hum.	30.2	19.2	23.4	28.5	32.2
Power Input 2)	-	200-230V/60Hz/3Ph	200-230V/60Hz/3Ph	200-230V/60Hz/3Ph	200-230V/60Hz/3Ph
FLA -A 2)cooling	-	23.9	26.2	35.4	42.2
FLA -A 2)with heating/hum.	-	35.1	42.9	52.1	58.1
Power Input 3)	-	460V/60Hz/3Ph	460V/60Hz/3Ph	460V/60Hz/3Ph	460V/60Hz/3Ph
FLA -A 3)cooling	-	10.8	11.8	16.0	19.1
FLA -A 3)with heating/hum.	-	15.8	19.3	23.5	26.6
Ref. Pipe Connection -mm	10/12	12/16	16/16	16/16	16/22
Drain Connection -mm	20	20	20	20	20
Water In Connection	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G
Single/Dual System	Single	Single	Single	Single	Single
Refrigerant Type	R410A	R410A	R410A	R410A	R410A
Standard Outdoor					
Unit Model	W12AN	W18AN	W24AN	W24AN	W32AN
Unit Numbers	1	1	1	1	1

Notes:
1, Capacity based on 24°C/50%RH return air conditions, and 45°Ccondensing temperature.
2, The standard ESP 20Pa. Higher application shall refer to technical department for confirmation.
3, FLA of indoor unit includes FLA of outdoor unit, and outdoor unit power connected from indoor unit.
4, Standard air-cooled outdoor unit operating temperature range-15°C above, optional operating temperature range of the components -35°C with low temperature kit.

Technical Data

UpflowUnit/Downflow Unit Model:SYRC	SA30 U/D	SA35 U/D	SA40 U/D	SA50 U/D	DA45 U/D	DA55 U/D	DA65 U/D	DA70 U/D	DA80 U/D	DA90 U/D	DA100 U/D	DA110 U/D	DA120 U/D
Cooling Capacity -kW	32.5	37.7	41.8	50.0	43.5	53.1	65.1	71.1	83.6	92.1	100.9	110.9	122.9
Sensible Capacity -kW	29.3	34	38.1	45.0	39.2	47.8	58.8	64	75.3	83.6	91.1	97.1	105.2
SHR-%	90.2	90.2	91.1	90.0	90.1	90.2	90.3	90.0	90.1	90.8	90.2	87.6	85.6
AirVolume -m3/h	8325	8620	10500	12400	10500	12400	16650	17240	21000	22600	24800	26200	27100
Fan Type	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC
Heating Capacity -kW	6	6	9	9	9	9	9	9	12	12	12	12	12
Heating Type	PTC	PTC	PTC	PTC	PTC	PTC	PTC	PTC	PTC	PTC	PTC	PTC	PTC
Hum.Capacity -kg/h	8	8	10	10	10	10	10	10	12	12	12	12	12
Humidifier Type	Electrode	Electrode	Electrode	Electrode	Electrode	Electrode	Electrode	Electrode	Electrode	Electrode	Electrode	Electrode	Electrode
Filter Rating	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4
Weight -kg	433	438	468	528	478	568	688	718	788	866	888	910	980
Width-mm	1126	1126	1326	1326	1326	1326	1826	1826	2226	2226	2226	2426	2426
Depth-mm	990	990	990	990	990	990	990	990	990	990	990	990	990
Height -mm	1975	1975	1975	1975	1975	1975	1975	1975	1975	1975	1975	1975	1975
Power Input 1)	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph
FLA -A 1)	35.5	36.3	46.0	49.6	48.2	53.8	66.4	67.2	83.0	86.6	90.2	93.8	97.2
Power Input 2)	460V /60Hz /3Ph	460V /60Hz /3Ph	460V /60Hz /3Ph	460V /60Hz /3Ph	460V /60Hz /3Ph	460V /60Hz /3Ph	460V /60Hz /3Ph	460V /60Hz /3Ph	460V /60Hz /3Ph	460V /60Hz /3Ph	460V /60Hz /3Ph	460V /60Hz /3Ph	460V /60Hz /3Ph
FLA -A 2)	29.3	30.0	38.0	41.0	39.8	44.5	54.9	55.5	68.6	71.5	74.5	77.4	80.3
Power Input 3)	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	-	-
FLA -A 3)	64.9	66.4	84	90.6	88.1	98.3	121.3	122.8	151.7	158.2	164.8	-	-
Pipe Connection -mm	16/22	16/22	16/22	16/22	16/22	16/22	16/22	16/22	16/22	16/22	16/22	16/22	16/22
Drain Connection -mm	20	20	20	20	20	20	20	20	20	20	20	20	20
Water in connection	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G
Single/Dual System	Single	Single	Single	Single	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual
Refrigerant	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Standard Outdoor													
Unit Model	W38AN	W52AN	W52AN	W62AN	W32AN	W32AN	W42AN	W52AN	W52AN	W62AN	W62AN	W70AN	W76AN
Unit Numbers	1	1	1	1	2	2	2	2	2	2	2	2	2

Notes:
1, Capacity based on 24°C/50%RH return air conditions, and 45°Ccondensing temperature.
2, The standard ESP 20Pa. Higher application shall refer to technical department for confirmation.
3, FLA of indoor unit includes FLA of outdoor unit, and outdoor unit power connected from indoor unit.
4, Standard air-cooled outdoor unit operating temperature range-15°C above, optional operating temperature range of the components -35°C with low temperature kit.

Technical Data

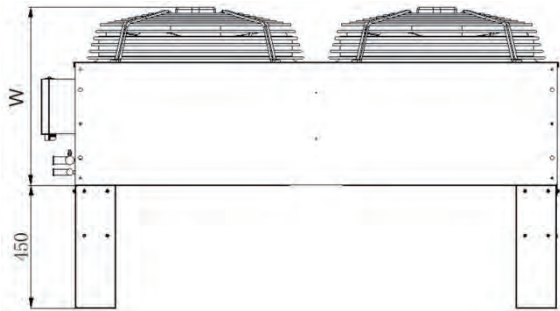
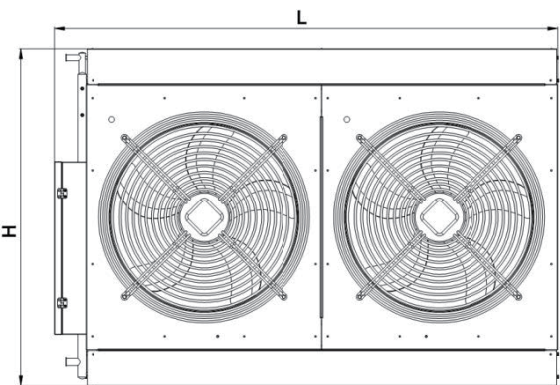
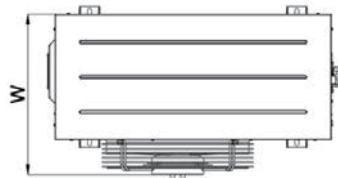
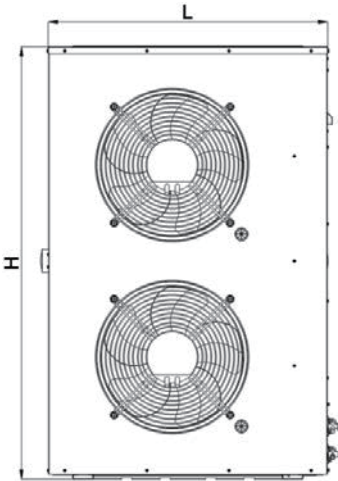
UpflowUnit/Downflow Unit Model:SYRC	SW30 U/D	SW35 U/D	SW40 U/D	SW50 U/D	DW45 U/D	DW55 U/D	DW65 U/D	DW70 U/D	DW80 U/D	DW90 U/D	DW100 U/D	DW110 U/D	DW120 U/D
Cooling Capacity -kW	32.5	37.7	41.8	50.0	43.5	53.1	65.1	71.1	83.6	92.1	100.9	110.9	122.9
Sensible Capacity -kW	29.3	34	38.1	45.0	39.2	47.8	58.8	64	75.3	83.6	91.1	97.1	105.2
SHR-%	90.2	90.2	91.1	90.0	90.1	90.2	90.3	90.0	90.1	90.8	90.2	87.6	85.6
AirVolume -m³/h	8325	8620	10500	12400	10500	12400	16650	17240	21000	22600	24800	26200	27100
Fan Type	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC
Heating Capacity -kW	6	6	9	9	9	9	9	9	12	12	12	12	12
Heating Type	PTC	PTC	PTC	PTC	PTC	PTC	PTC	PTC	PTC	PTC	PTC	PTC	PTC
Hum.Capacity -kg/h	8	8	10	10	10	10	10	10	12	12	12	12	12
Humidifier Type	Electrode	Electrode	Electrode	Electrode	Electrode	Electrode	Electrode	Electrode	Electrode	Electrode	Electrode	Electrode	Electrode
Filter Rating	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4
Weight -kg	433	438	468	528	478	568	688	718	788	866	888	910	980
Width-mm	1126	1126	1326	1326	1326	1326	1826	1826	2226	2226	2226	2426	2426
Depth-mm	990	990	990	990	990	990	990	990	990	990	990	990	990
Height -mm	1975	1975	1975	1975	1975	1975	1975	1975	1975	1975	1975	1975	1975
Power Input 1)	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph	380-415V /50Hz/60Hz /3Ph
FLA -A 1)	35.5	36.3	46.0	49.6	48.2	53.8	66.4	67.2	83.0	86.6	90.2	93.8	97.2
Power Input 2)	460V /60Hz /3Ph	460V /60Hz /3Ph	460V /60Hz /3Ph	460V /60Hz /3Ph	460V /60Hz /3Ph	460V /60Hz /3Ph	460V /60Hz /3Ph	460V /60Hz /3Ph	460V /60Hz /3Ph	460V /60Hz /3Ph	460V /60Hz /3Ph	460V /60Hz /3Ph	460V /60Hz /3Ph
FLA -A 2)	29.3	30.0	38.0	41.0	39.8	44.5	54.9	55.5	68.6	71.5	74.5	77.4	80.3
Power Input 3)	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	-	-
FLA -A 3)	64.9	66.4	84	90.6	88.1	98.3	121.3	122.8	151.7	158.2	164.8	-	-
Drain Connection -mm	20	20	20	20	20	20	20	20	20	20	20	20	20
Hum Water Connection	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G
Single/Dual System	Single	Single	Single	Single	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual
Refrigerant	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Condenser Water Side													
Water Flow -m³/h	7.24	7.96	9.1	10.91	4.88*2	5.41*2	7.24*2	7.96*2	9.1*2	9.53*2	10.91*2	11.96*2	13.36*2
Pressure Drop -kPa	52.6	50.1	50.8	52.2	48.3	51.3	52.6	50.1	50.8	50.4	52.2	50.3	51.7
Water Piping -mm	32	32	32	42	28	28	32	32	32	32	42	42	42

Notes:
1, Capacity based on 24°C/50%RH return air conditions.
2, The standard ESP 20Pa. Higher application shall refer to technical department for confirmation.
3, Rated water temperature 30c/35c in/out.

Technical Data of Datacool(>20KW) Air Cooled Condensor

Model : SYRC	W08AN	W12AN	W18AN	W24AN	W32AN	W38AN	W42AN	W52AN	W62AN	W70AN	W76AN	W85AN	DW62AN	DW70AN	DW76AN	DW85AN
Single/Dual System	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Dual	Dual	Dual	Dual
Weight -kg	28	40	67	105	110	120	130	140	150	150	220	230	160	160	220	230
Depth -mm	420	420	420	990	990	990	1273	1273	1273	1273	1273	1273	1273	1273	1273	1273
Width -mm	800	800	800	1407	1407	1407	1607	1607	1907	1907	2407	2407	2107	2107	2407	2407
Height -mm	790	790	1240	689	689	695	695	695	689	689	695	695	689	689	695	695
Leg Height	-	-	-	450	450	450	450	450	450	450	450	450	450	450	450	450
Power Input1)	208-240V /50-60Hz /1Ph/2P	208-240V /50-60Hz /1Ph/2P	208-240V /50-60Hz /1Ph/2P	380-415V /50-60Hz /3Ph	380-415V /50-60Hz /3Ph	380-415V /50-60Hz /3Ph	380-415V /50-60Hz /3Ph	380-415V /50-60Hz /3Ph	380-415V /50-60Hz /3Ph	380-415V /50-60Hz /3Ph	380-415V /50-60Hz /3Ph	380-415V /50-60Hz /3Ph	380-415V /50-60Hz /3Ph	380-415V /50-60Hz /3Ph	380-415V /50-60Hz /3Ph	380-415V /50-60Hz /3Ph
FLA -A1)	1.5	1.5	3.0	2.0	2.0	2.8	2.8	2.8	4.0	4.0	5.6	5.6	4.0	4.0	5.6	5.6
Power Input2)	-	-	-	460V /50-60Hz /3Ph	460V /50-60Hz /3Ph	460V /50-60Hz /3Ph	460V /50-60Hz /3Ph	460V /50-60Hz /3Ph	460V /50-60Hz /3Ph	460V /50-60Hz /3Ph	460V /50-60Hz /3Ph	460V /50-60Hz /3Ph	460V /50-60Hz /3Ph	460V /50-60Hz /3Ph	460V /50-60Hz /3Ph	460V /50-60Hz /3Ph
FLA -A2)	-	-	-	1.7	1.7	2.4	2.4	2.4	3.3	3.3	4.8	4.8	3.3	3.3	4.8	4.8
Piping Connection -mm	10/12	10/12	12/16	16/22	16/22	16/22	16/22	22/28	22/28	22/28	22/28	22/28	22/28	22/28	22/28	22/28

Datacool Air Cooled Condensor



Technical Data

UpflowUnit/Downflow Unit Model:SYRC	SC30 U/D	SC40 U/D	SC50 U/D	DC60 U/D	DC70 U/D	DC80 U/D	DC90 U/D	DC100 U/D	DC110 U/D
Total Capacity (7C/12C water temperature) -kW	38.2	50.8	62.8	76.2	89.6	100.4	113.2	124	137.6
Total Capacity (10C/15C water temperature) -kW	30.2	39	48	56.2	68.8	78	86.4	95.2	104.8
Total Capacity (13C/18C water temperature) -kW	24	31.2	37.8	44	54.8	62.4	68	75.6	83.2
SHR-%	100	100	100	100	100	100	100	100	100
Air Volume -m³/h	9230	9610	10230	11260	17100	20500	18700	21360	23300
Fan Type	EC/AC	EC/AC	EC/AC	EC/AC	EC/AC	EC/AC	EC/AC	EC/AC	EC/AC
Heating Capacity -kW	6	6	6	6	9	9	9	9	9
Heating Type	PTC	PTC	PTC	PTC	PTC	PTC	PTC	PTC	PTC
Hum.Capacity -kg/h	8	8	8	8	10	10	10	10	10
Humidifier Type	Electrode	Electrode	Electrode	Electrode	Electrode	Electrode	Electrode	Electrode	Electrode
Filter Rating	G4	G4	G4	G4	G4	G4	G4	G4	G4
Weight -kg	303	312	333	352	492	502	512	522	539
Width-mm	925	925	925	925	1675	1675	1675	1675	1825
Depth-mm	990	990	990	990	990	990	990	990	990
Height -mm	1975	1975	1975	1975	1975	1975	1975	1975	1975
Power Type1)	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P
FLA -A1)	22.2	22.2	22.2	22.4	38.8	38.8	38.8	38.8	39.2
Power Type2)	460V/60Hz/3P	460V/60Hz/3P	460V/60Hz/3P	460V/60Hz/3P	460V/60Hz/3P	460V/60Hz/3P	460V/60Hz/3P	460V/60Hz/3P	460V/60Hz/3P
FLA -A2)	18.4	18.4	18.4	18.5	32.0	32.0	32.0	32.0	32.3
Power Type3)	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P
FLA -A3)	40.2	40.2	40.2	40.6	75.7	75.7	75.7	75.7	76.4
Water Connection -mm	32	32	42	42	42	42	54	54	54
Drain Connection -mm	20	20	20	20	20	20	20	20	20
Water In Connection	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G
Water Flow -l/s	1.4	1.6	2.2	2.6	3.3	3.7	4.1	4.5	5.0
Water PD -kPa	49.6	55.0	63.0	57.3	57.2	73.6	63.2	77.8	85.3

Notes:
1, Technical data based on 28°C/40%RH return air conditions.
2, The standard ESP 20Pa. Higher application shall refer to technical department for confirmation.
3, Standard with 2 way valves and optional with 3 way valves.

Technical Data

Upflow Unit Downflow Unit	DC120 U/D	DC130 U/D	DC140 U/D	DC150 U/D	DC160 U/D	DC170 U/D	DC180 U/D	DC190 U/D	DC200 U/D
Total Capacity (7C/12C water temperature) -kW	147.2	159.6	177.2	184.2	199.8	208.2	221.4	233.4	265.8
Total Capacity (10C/15C water temperature) -kW	113.5	121.2	134	141	151.8	159.6	171	177.6	201
Total Capacity (13C/18C water temperature) -kW	99.2	95.2	104	111.6	120	126.6	135.6	139.2	156
SHR-%	100	100	100	100	100	100	100	100	100
AirVolume -m³/h	25960	25030	26120	31680	33120	35460	39100	36010	38500
Fan Type	EC/AC	EC/AC	EC/AC	EC/AC	EC/AC	EC/AC	EC/AC	EC/AC	EC/AC
Heating Capacity -kW	9	9	9	12	12	12	12	12	12
Heating Type	PTC	PTC	PTC	PTC	PTC	PTC	PTC	PTC	PTC
Hum.Capacity -kg/h	10	10	10	10	10	10	10	10	10
Humidifier Type	Electrode	Electrode	Electrode	Electrode	Electrode	Electrode	Electrode	Electrode	Electrode
Filter Rating	G4	G4	G4	G4	G4	G4	G4	G4	G4
Weight -kg	553	562	585	772	792	812	822	842	852
Width-mm	1825	1825	1825	2500	2725	2725	2725	2725	2725
Depth-mm	990	990	990	990	990	990	990	990	990
Height -mm	1975	1975	1975	1975	1975	1975	1975	1975	1975
Power Type1)	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P
FLA -A1)	39.2	39.2	39.2	47.3	47.3	47.9	47.9	47.9	47.9
Power Type2)	460V/60Hz/3P	460V/60Hz/3P	460V/60Hz/3P	460V/60Hz/3P	460V/60Hz/3P	460V/60Hz/3P	460V/60Hz/3P	460V/60Hz/3P	460V/60Hz/3P
FLA -A2)	32.3	32.3	32.3	39.1	39.1	39.6	39.6	39.6	39.6
Power Type3)	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P
FLA -A3)	76.4	76.4	76.4	91.3	91.3	92.4	92.4	92.4	92.4
Water Connection -mm	54	54	54	66.8	66.8	66.8	66.8	66.8	66.8
Drain Connection -mm	20	20	20	20	20	20	20	20	20
Water In Connection	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G
Water Flow -l/s	5.4	5.7	6.1	6.7	7.2	7.5	8.1	8.3	8.9
Water PD -kPa	99.9	77.8	80.1	74.1	76.5	84.1	97.8	71.5	74.1

Notes:
1, Technical data based on 28°C/40%RH return air conditions.
2, The standard ESP 20Pa. Higher application shall refer to technical department for confirmation.
3, Standard with 2 way valves and optional with 3 way valves.