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PRECISION COOLING SYSTEM

DATAROW SERIES

AIR 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

Datarow Precision Air Conditioning is an ideal product for inter column cooling in green data centers. It has the industry's best cooling efficiency. The variable frequency scroll compressor uses environmentally friendly refrigerant R 410 A. It has excellent intelligent control and performance. Flexible cooling capacity design can be used in 20/100 adjustment of cooling capacity, which greatly improves the energy efficiency of ordinary air cooled units by 33.3/50. The 7 inch touch screen can comprehensively display various data in the computer room and related working conditions of the unit.

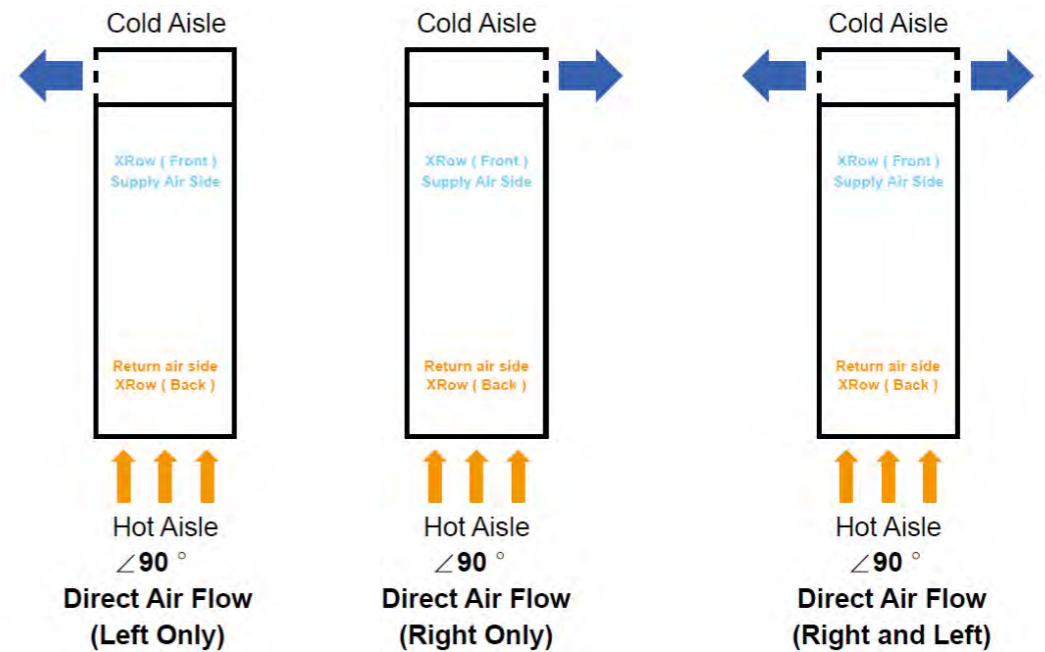
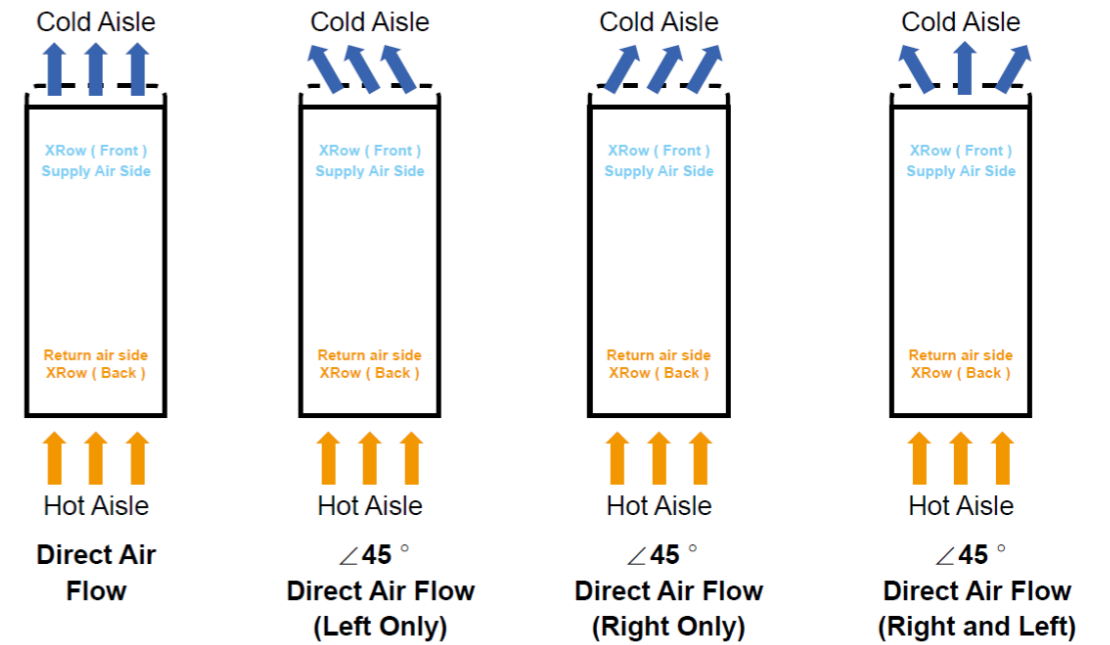


- Application

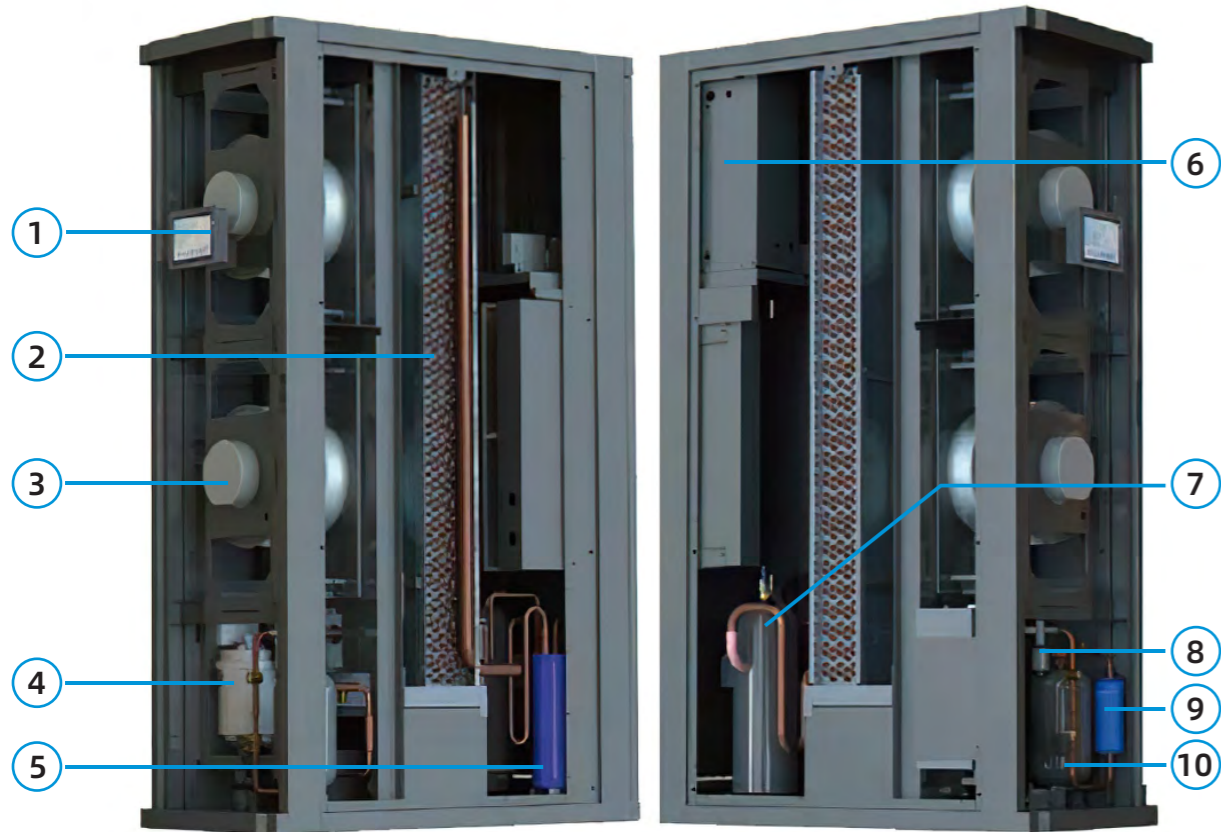
- Single rack with power larger than 3kW
- High heat density computer room
- Modular DC
- Container type DC
- DC with low PUE
- Hot spot reconstruction



Product Configuration



High-quality Structure And Component



• 1 - Control system device

7-inch touch screen, operating status and alarm display Display, advanced human-machine interface, simple and fast operation, professional, energy-saving and intelligent Chemical function.

• 3 - High effect wind machine

EC Fan, with advantages of high efficiency, energy saving , low noise and continuous air volume

• 5 - Oil separator

It is an oil separator of a well-known brand. With special anti-oxidation treatment, it is resistant to high pressure and is specially designed for the R410A system. It effectively prevents lubricating oil from entering the heat exchanger.

• 7 - EC compressor

The industry-leading EC scroll compressor features a variable displacement design, ensuring the safe operation of the unit under the condition of load changes. It has high reliability, a long service life and low noise.

• 9 - Drying filter

It is a mature product of a well-known brand, fully compatible with the R410A system. It has highly efficient capabilities of acid removal, filtration and drying, ensuring the safe operation of the system.

• 2 - Steam hair device

High efficiency design of hydrophilic fins and internally threaded pipes Design, with advanced technology, corrosion resistance , long life, high efficiency, and compressor The refrigeration system components are fully matched.

• 4 - Humidifier

Electrode humidifier, using tap water, has Automatic cleaning function, quickly produces pure steam Steam, maintenance without stopping

• 6 - Frequency converter

Adopt mature and efficient DC frequency conversion controller , and the inverter compressor and unit controller are complete Beautiful match, high efficiency and energy saving, simple operation, Perfect protection.

• 8 - Electronic expansion valve

It has a fast response and operation speed, high control precision and complete functions. It can conduct real-time monitoring on the operating status of the unit and make timely adjustments. Matched with the independently developed expansion valve controller, it ensures the efficient and safe operation of the system.

• 10 - Liquid storage tank

The large-capacity liquid storage tank ensures that the unit can operate normally under both high and low temperature environments.

DataRow Unit Characteristics

- Advanced Controller

- Advanced team work function, Up to 16 remote temperature/humidity sensors
Standard RS485 communication interface, optional SNMP and TCP/IP interfaces

- Efficient EC fan system

- Saving 20%-30% energy compared to traditional AC motor Soft startup function, Low startup current
Adjust rotary speed automatically according to cooling requirements and airflow pressure, and provide airflow required
N+1 redundancy configuration of fans, ensure the airflow in case of any fan fault
Easy maintenance designed

- High Efficiency Compressor System

- R410A refrigerant
Adopting scroll compressor with high reliability and energy efficiency ratio

- Electronic Expansion Valve

- Adjust the throttle of valve smoothly to save the energy
Wide range of operations, which can help reduce the superheat degree and improve EER
Realize cooling capacity and heat load precise matching
Quick response, realize the precise cooling

- Options

- Transfer switch for Dual Power Input
GPRS SMS alarm
Low temperature startup kits
Wired Temperature/humidity sensors
Tree way water valve

Model Configuration

| | | |
|--------------|------------------------------------|--------------------|
| SY | Company identification | SOETECK |
| IRC | Unit type | In row cooling |
| 30 | Nominal cooling capacity | 30KW |
| RA/RC | Air-cooled normal temperature type | Chilled water type |

Technical Data

| Indoor Unit Model:SYIRC | 007RA | 012RA | 017RA | 020RA | 025RA | 030RA | 040RA | 050RA | 065RA | 075RA | 090RA |
|-------------------------|----------------------------|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------|------------------------|------------------------|------------------------|
| Total Cooling-kW | 7.5 | 12.6 | 17.8 | 21.5 | 25.5 | 31.5 | 41.5 | 50.5 | 65.5 | 75.5 | 90.5 |
| SHR-% | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Air Volume-m3/h | 2300 | 2500 | 4500 | 4920 | 5100 | 6000 | 8100 | 10200 | 12100 | 13600 | 16200 |
| Mount Type | Row | Row | Row | Row | Row | Row | Row | Row | Row | Row | Row |
| Cooling Type | DX | DX | DX | DX | DX | DX | DX | DX | DX | DX | DX |
| Height-mm | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| Depth-mm | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| Width-mm | 300 | 300 | 300 | 300 | 300 | 300 | 600 | 600 | 600 | 900 | 900 |
| Weight-kg | 213 | 233 | 253 | 258 | 260 | 320 | 360 | 420 | 460 | 540 | 620 |
| Reheat-kW | 3.0 | 3.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| Hum.(optional)-kg/h | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 3 | 3 | 3 | 3 | 3 | 3 |
| Power Input1) | 208-240V /50-60Hz /1Ph-2Ph | 208-240V /50-60Hz /1Ph-2Ph | 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)with heating | 37.3 | 48.7 | 27.0 | 26.7 | 27.9 | 34.6 | 37.7 | 48.1 | 60.6 | 70.8 | 84.6 |
| FLA-A1)with hum. | 42.4 | 53.8 | 32.1 | 31.8 | 33.0 | 39.7 | 47.9 | 58.3 | 70.8 | 81.0 | 94.8 |
| Power Input2) | - | 380-415V /50Hz-60Hz /3Ph | 200-230V /50Hz-60Hz /3Ph | 200-230V /50Hz-60Hz /3Ph | 200-230V /50Hz-60Hz /3Ph | 200-230V /50Hz-60Hz /3Ph | 200-230V /50Hz-60Hz /3Ph | - | - | - | - |
| FLA-A2)with heating | - | 20.9 | 49.4 | 48.8 | 51.1 | 63.2 | 68.9 | - | - | - | - |
| FLA-A2)with hum. | - | 22.0 | 52.5 | 52.0 | 54.2 | 66.4 | 75.1 | - | - | - | - |
| Power Input3) | - | - | 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-A3)with heating | - | - | 22.3 | 22.1 | 23.1 | 28.6 | 31.1 | 39.7 | 50.1 | 58.5 | 69.9 |
| FLA-A3)with hum. | - | - | 26.5 | 26.3 | 27.3 | 32.8 | 39.6 | 48.2 | 58.6 | 66.9 | 78.4 |
| Standard Outdoor | | | | | | | | | | | |
| Unit Model | SY-W12AN | SY-W18AN | SY-W24AN | SY-W32AN | SY-W38AN | SY-W42AN | SY-W52AN | SY-W62AN | SY-W85AN | SY-W52AN | SY-W62AN |
| Unit Qty | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

Notes:
 1.Air flow is based upon standard fan speed setting. Fan modulates per real loads.
 2.Cooling Capacity based on 37°C/24%RH return air and 45°Ccondensing temperature.
 3.FLA of indoor unit includes FLA of outdoor unit, and outdoor unit power connected from indoor unit.
 4.SNMP monitoring port, dual power input, and leaking detection are optional.
 5.Standard unit works -15°Cabove outdoor temperature, select low temperature kit to run for -35C outdoor ambient temperature.

Technical Data

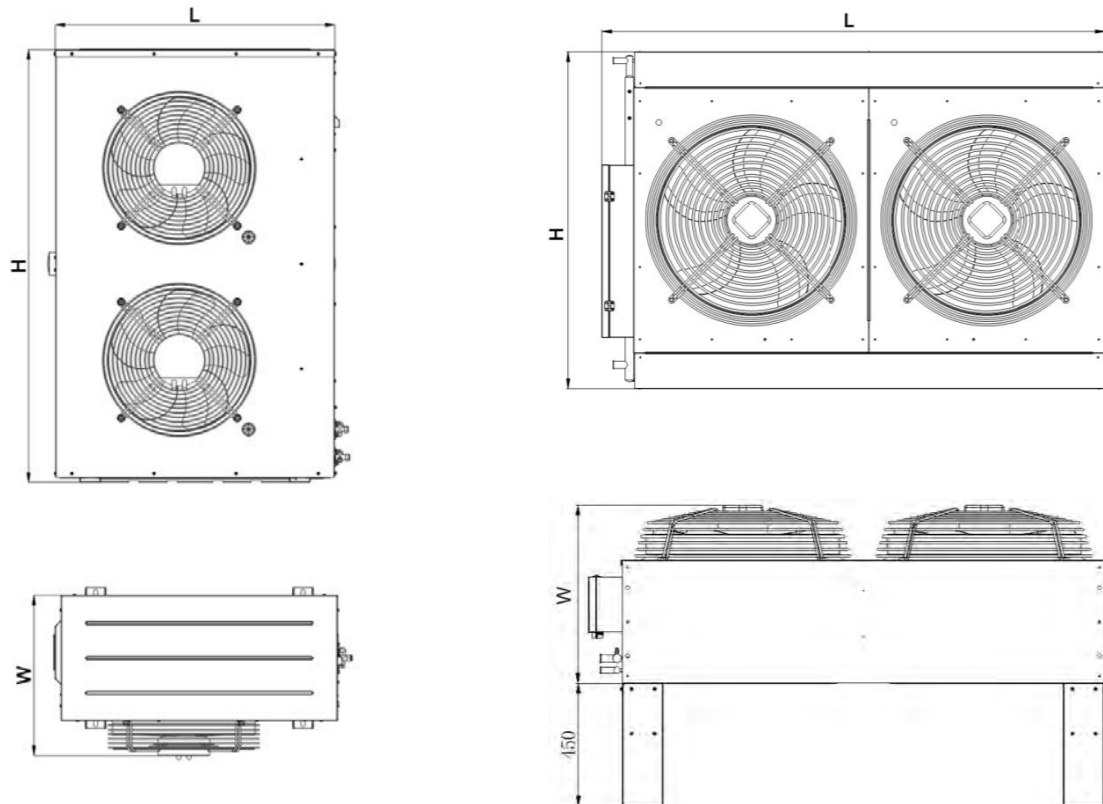
| Unit Model:SYIRC | 025RC | | | 045RC | | | 065RC | | |
|---|--------------------------|-------|-------|----------------------|-------|-------|----------------------|-------|-------|
| Water Temperature inlet /outlet -°C | 7/12 | 10/15 | 13/18 | 7/12 | 10/15 | 13/18 | 7/12 | 10/15 | 13/18 |
| Total Capacity -kW (45°C/12%RH Return Air) | 47.1 | 43.2 | 39.3 | 76.0 | 69.6 | 63.2 | 107.6 | 98.6 | 89.6 |
| Sensible Capacity -kW (45°C/12%RH Return Air) | 47.1 | 43.2 | 39.3 | 76.0 | 69.6 | 63.2 | 107.6 | 98.6 | 89.6 |
| Total Capacity -kW (40°C/18% Return Air) | 41.0 | 36.8 | 32.9 | 65.4 | 59.0 | 52.4 | 93.2 | 84.0 | 74.8 |
| Sensible Capacity -kW (40°C/18% Return Air) | 40.8 | 36.8 | 32.9 | 65.4 | 59.0 | 52.4 | 93.2 | 84.0 | 74.8 |
| Total Capacity -kW (37°C/24% Return Air) | 38.8 | 33.0 | 28.9 | 59.8 | 52.4 | 46.0 | 87.0 | 75.0 | 65.8 |
| Sensible Capacity -kW (37°C/24% Return Air) | 36.3 | 33.0 | 28.9 | 59.2 | 52.4 | 46.0 | 83.2 | 75.0 | 65.8 |
| Total Capacity -kW (35°C/26%RH Return Air) | 35.9 | 30.3 | 26.3 | 55.4 | 48.2 | 41.6 | 80.4 | 69.0 | 59.6 |
| Sensible Capacity -kW (35°C/26%RH Return Air) | 33.8 | 30.3 | 26.3 | 54.8 | 48.2 | 41.6 | 77.4 | 69.0 | 59.6 |
| Total Capacity -kW (32°C/30%RH Return Air) | 31.7 | 26.3 | 22.2 | 48.4 | 41.4 | 34.8 | 71.0 | 59.8 | 50.4 |
| Sensible Capacity -kW (32°C/30%RH Return Air) | 29.9 | 26.3 | 22.2 | 48.2 | 41.4 | 34.8 | 68.2 | 59.8 | 50.4 |
| Total Capacity -kW (30°C/34%RH Return Air) | 29.1 | 23.6 | 19.5 | 44.4 | 37.0 | 30.4 | 65.4 | 53.6 | 44.2 |
| Sensible Capacity -kW (30°C/34%RH Return Air) | 27.1 | 23.6 | 19.5 | 43.6 | 37.0 | 30.4 | 62.0 | 53.6 | 44.2 |
| Air Volume -m3/h | 4800 | | | 9000 | | | 11400 | | |
| Mount Type | Row | | | Row | | | Row | | |
| Height -mm | 2000(42U) | | | 2000(42U) | | | 2000(42U) | | |
| Depth -mm | 1100 | | | 1100 | | | 1100 | | |
| Width -mm | 300 | | | 600 | | | 600 | | |
| Weight -kg | 190 | | | 330 | | | 400 | | |
| Reheat-kW | 3.0 | | | 3.0 | | | 3.0 | | |
| Hum.(optional) -kg/h | 1.5 | | | 1.5 | | | 1.5 | | |
| Power Input1) | 208-240V/50-60Hz/1Ph-2Ph | | | 380-415V/50-60Hz/3Ph | | | 380-415V/50-60Hz/3Ph | | |
| FLA -A1)with heating | 22.7 | | | 13.7 | | | 16.0 | | |
| FLA -A1)with hum. | 27.8 | | | 18.8 | | | 26.1 | | |
| Power Input2) | - | | | 200-230V/50-60Hz/3Ph | | | 200-230V/50-60Hz/3Ph | | |
| FLA -A2)with heating | - | | | 25.1 | | | 29.2 | | |
| FLA -A2)with hum. | - | | | 28.1 | | | 35.5 | | |
| Power Input3) | - | | | 460V/50-60Hz/3Ph | | | 460V/50-60Hz/3Ph | | |
| FLA -A3)with heating | - | | | 11.3 | | | 13.2 | | |
| FLA -A3)with hum. | - | | | 15.5 | | | 21.5 | | |

Notes:
 1.Air flow is based upon standard fan speed setting. Fan modulates per real loads.
 2.SNMP monitoring port, dual power input, 3-way valve and leaking detection are optional.

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

| 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 | Single | Single | Single | Single |
| 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 /1Ph2P | 208-240V /50-60Hz /1Ph2P | 208-240V /50-60Hz /1Ph2P | 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 |

Datarow Air Cooled Condensor

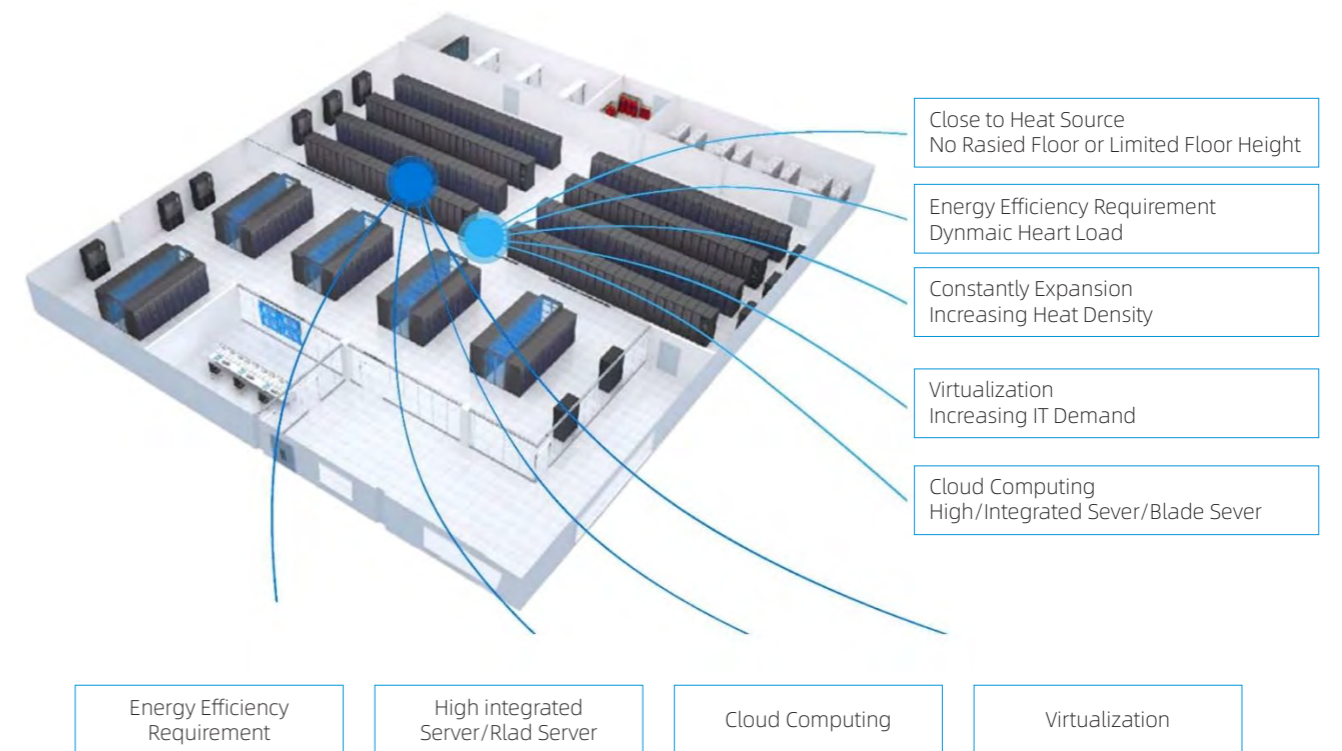


Efficient Cooling Solution



Efficient cooling solution for modularized data center

- High heat density data centers
- Container data center
- Modularized data centers
- Improving cooling system EER
- Reducing data centers PUE
- Matching cold/hot aisle design



- DataRow is an adaptive row based cooling system placed c l oseto the heat source and ideal for rack level cooling solution for data center