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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.

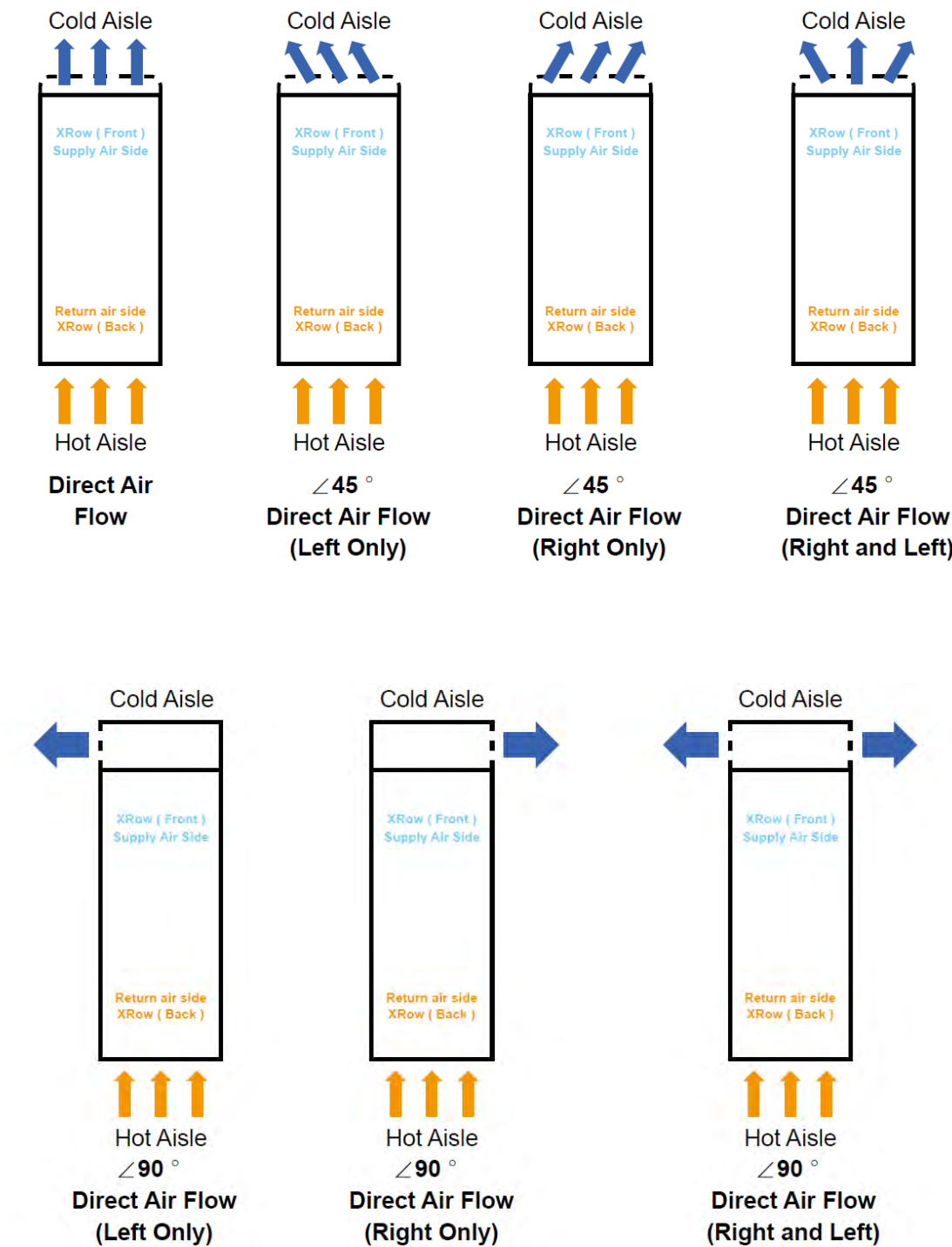


## - Features

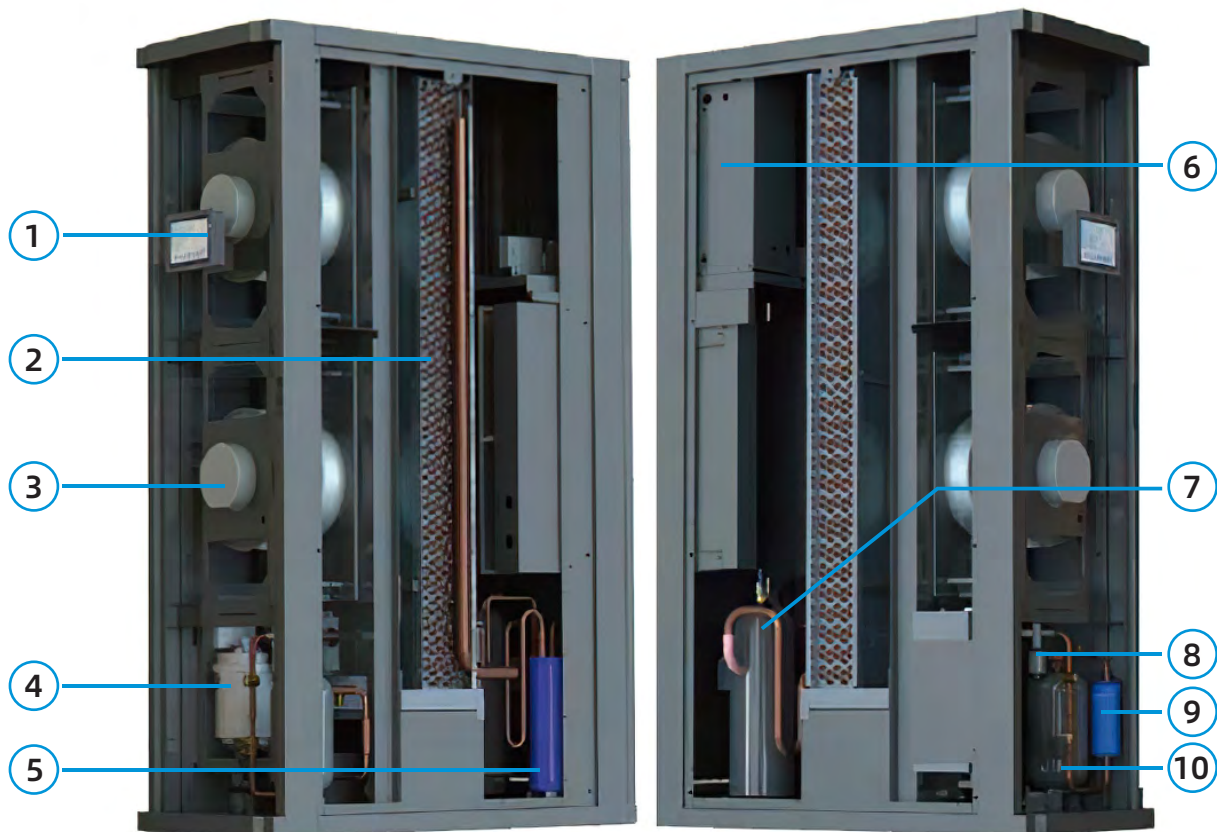
- Single rack with power larger than 3kW
- High heat density computer room
- Modular DC
- Container type DC
- DC with low PUE
- Hot spot reconstruction



# 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.
- **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.
- **3 - High effect EC FAN**  
EC Fan, with advantages of high efficiency, energy saving , low noise and continuous air volume
- **4 - Humidifier**  
Electrode humidifier, using tap water, has Automatic cleaning function, quickly produces pure steam Steam, maintenance without stopping
- **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.
- **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.
- **7 - Inverter compressor**  
The industry-leading Inverter 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.
- **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.
- **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.
- **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 requirments 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 inverter compressor with high reliability and energy efficiency ratio
- **Electronic Expansion Valve**
  - Adjust the throttle of valve smoothly to save the energy
  - Wide range og operations, which can help reduce the superheat degree and improvde EER
  - Realize cooling capacity and heat load precise matching
  - Qucik 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		

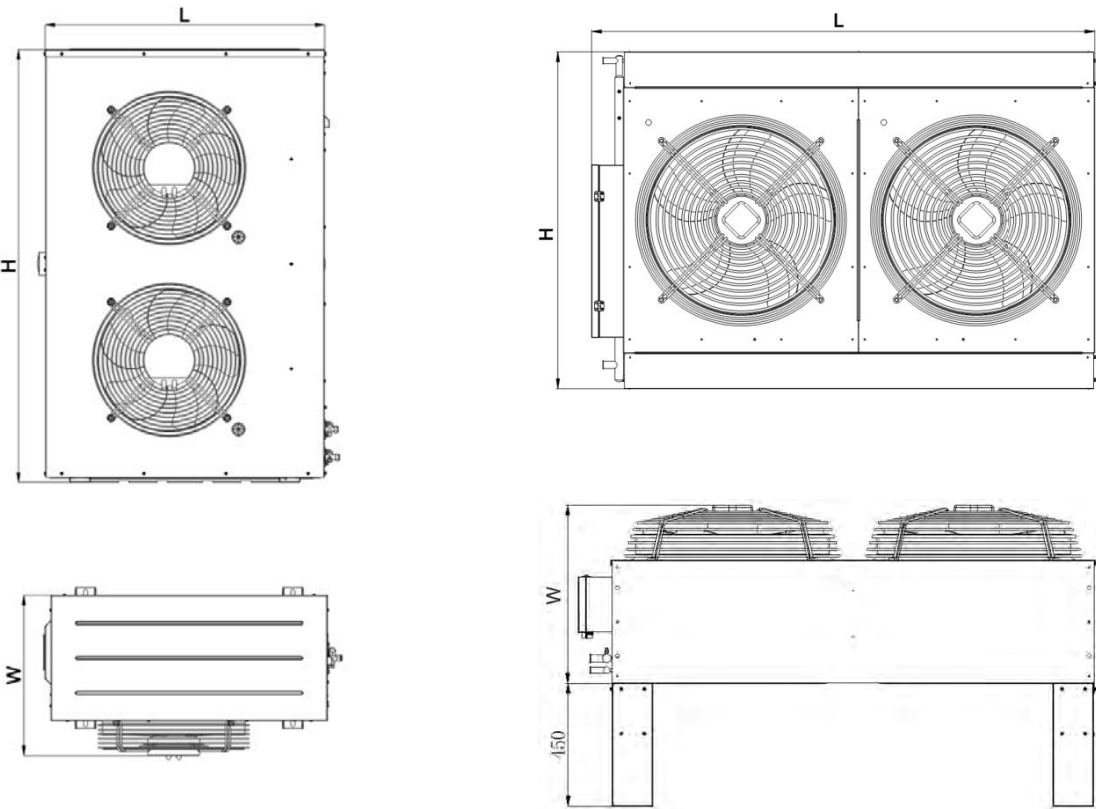
Notes:  
1.Air flow is based upon standard fan speed setting. Fan modulates per real loads.  
2.SNMP monitoring port, dual power input, 3-way valve and leaking detection are optional.



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	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 /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

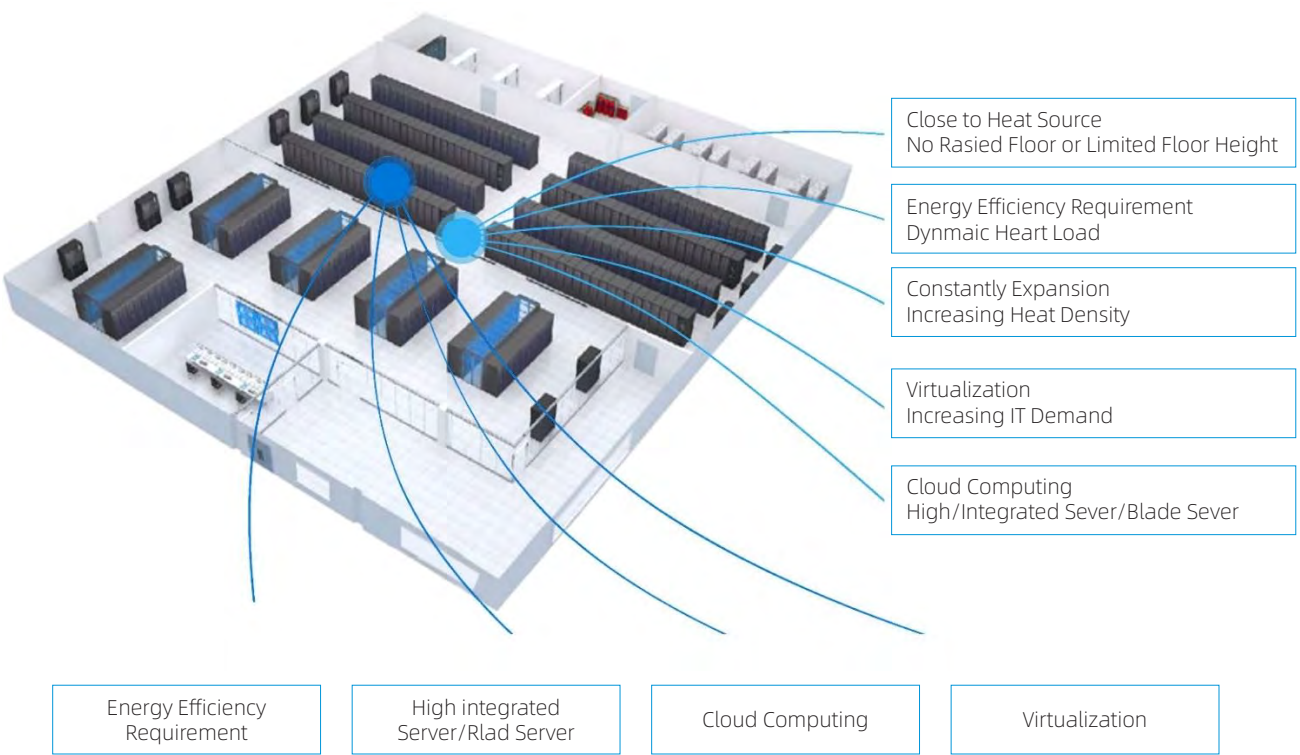


Efficient Cooling Soultion



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 deign



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