

Micro Data Center Solution



Foundation of Digital Future

Simplifying and protecting your digital system with this pre-manufactured, self-contained and readily scalable micro data center solution.

Customize with Expert

Micro Data Center Platform



AgileRak™ Indoor Micro Data Center

Fully integrated with indoor type rack, UPS power, battery, cooling, monitoring, security, and fire systems.

Available from half rack to multiple racks. Customization is acceptable.



AgileHub™ Outdoor Micro Data Center

Fully integrated with outdoor type cabinet, UPS/DC power, battery, cooling, monitoring, security, and fire systems.

Available with 1 to 3 cabinets all in one solution. Customization is acceptable.



AgileCub™ Container Micro Data Center

Fully integrated with ISO container, cabinet, UPS/DC power, battery, cooling, monitoring, security, and fire systems.

Available with 10f, 20f and 40f all in one solution. Customization is acceptable.

Customize with Expert

AgileRak™ Series

MDC with Top Package Cooling

3k – 6k MDC fully integrated with closed rack, package cooling, UPS, battery, power distribution, security, monitoring and fire systems.

No complex piping of remote condenser installation.



MDC with Row Package Cooling

5k – 10k MDC fully integrated with closed rack, package cooling, UPS, battery, power distribution, security, monitoring and fire systems.

No complex piping of remote condenser installation.



MDC with Rack Split Cooling

3k – 10k MDC fully integrated with closed rack, split cooling, UPS, battery, power distribution, security, monitoring and fire systems.

Modular rack cooling flexible for rack oriented MDC plan, expansion and deployment.



MDC with Row Split Cooling

6k – 20k MDC fully integrated with closed rack, split cooling, UPS, battery, power distribution, security, monitoring and fire systems.

Row cooling seamless integration with rack row and capacity expansion.



Key Characteristics

- Rack-level cooling, cold and hot aisle isolation, high efficiency, the PUE values as low as 1.3
- Plug and play design, available online in 10 minutes at the fastest
- Fully enclosed design, dust and noise reduction, protection level up to IP55
- Cabinet covered with insulation material to prevent condensation
- The cabinet is equipped with an emergency pop-up door system as standard, which can automatically open the front and rear doors in the event of a high temperature or fire alarm
- Cabinets, power distribution and cooling units have a variety of forms and specifications for flexible application
- The front and rear doors of the cabinet are equipped with a 3-in-1 access control system
- Standard 10-inch integrated touch monitor screen, the monitoring system does not take up U space of the cabinet
- Support remote web, APP and centralized monitoring, support monitoring protocols such as Modbus-TCP, SNMPV1 / V2, BACnet
- Support global customized services

Customize with Expert

AgileRak™ Series

Monitoring System

All in one monitoring host collects, displays and reports system status, locally and remotely.

Cooling System

1.5kW – 21.2kW precision cooling in rack mount, top mount and row mount type.

Fire System

Gas extinguishing system triggered by smoke and temperature

Server Rack

Fully insulated standard 19 inch rack system.



Security System

3 in 1 access control system (Pin/Fingerprint/R FID) and video monitoring system.

Power Distribution

Rack mount power distribution, metering, and management for all the power lines.

UPS System

3– 20kVA rack mount UPS system protect power continuity.

Battery System

Optional lead-acid batteries and lithium-ion batteries (Rack-mount)

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AgileRak™ Series

Technical Data – AgileRak Rack Type Micro Data Center

Model	ATM-03N	ATM-03W	ATM-06E	ATM-06T	ATM-06F	ATM-06K	ATM-10S	ATM-10G
Available Space	18U	19U	26U	29U	35U	35U	35U	35U
Redundancy	N	N	N	N	N	N	N	N
Width -mm	600/800	600	600	600	900	900	900	900
Depth -mm	1100	1100	1100	1100	1400	1400	1400	1400
Height -mm	1200	1590	2000	2000	2000	2000	2000	2000
Weight -kg	162	190	330	374	521	521	525	525
IP Level	IP5X	IP5X	IP5X	IP5X	IP5X	IP5X	IP5X	IP5X
Power Section								
UPS -kVA	3	3	6	6	6	6	10	10
Recommended power for IT -kW	< 2.0	< 2.4	< 3.2	< 3.5	< 5	< 5	< 7	< 7
UPS Type	Rack	Rack	Rack	Rack	Rack	Rack	Rack	Rack
Standard Battery	12V/9AH 6Pcs	12V/9AH 6Pcs	12V/9AH 16Pcs	12V/9AH 16Pcs	12V/9AH 16Pcs	12V/9AH 16Pcs	12V/9AH 16Pcs	12V/9AH 16Pcs
PDU	Basic 8Slots	Basic 8Slots	Basic 16Slots	Basic 16Slots	Basic 16Slots	Basic 16Slots	Basic 16Slots	Basic 16Slots
Recommended Breaker	16A	32A	63A	63A	63A	63A	80A	80A
Cooling Section								
Cooling Type	Fan Ventilation	Packaged DX	Packaged DX	Split DX	Split DX	Package DX	Split DX	Package DX
Mount Type	Top	Top	Top	Rack	Row	Row	Row	Row
Capacity-kW	2.0	3.5	3.5	3.9	5.6	5.6	7.6	7.6
Emergency Ventilation	√	√	√	√	√	√	√	√
Monitoring Section								
	Touch Screen, Remote Web Access	Touch Screen, Remote Web Access	Touch Screen, Remote Web Access	Touch Screen, Remote Web Access	Touch Screen, Remote Web Access	Touch Screen, Remote Web Access	Touch Screen, Remote Web Access	Touch Screen, Remote Web Access
	Temp. & Hum.	Temp. & Hum.	Temp. & Hum.	Temp. & Hum.	Temp. & Hum.	Temp. & Hum.	Temp. & Hum.	Temp. & Hum.
	UPS Mgmt.	UPS Mgmt.	UPS Mgmt.	UPS Mgmt.	UPS Mgmt.	UPS Mgmt.	UPS Mgmt.	UPS Mgmt.
Monitoring Function	-	Cooling Mgmt.	Cooling Mgmt.	Cooling Mgmt.	Cooling Mgmt.	Cooling Mgmt.	Cooling Mgmt.	Cooling Mgmt.
	Fire Detection	Fire Detection	Fire Detection	Fire Detection	Fire Detection	Fire Detection	Fire Detection	Fire Detection
	-	Water Leaking	Water Leaking	Water Leaking	Water Leaking	Water Leaking	Water Leaking	Water Leaking
	Door Status	Door Status	Door Status	Door Status	Door Status	Door Status	Door Status	Door Status

Customize with Expert

AgileRow™ Series

Closed Aisle System

Independent cold / hot closed aisle are integrated at the front and rear of the cabinet, respectively.

Monitoring System

All in one monitoring host collects, displays and reports system status, locally and remotely.

Security System

3 in 1 access control system (Pin/Fingerprint/RFID) and video monitoring system.



Power Distribution

Rack mount power distribution, metering, and management for all the power lines.

Power System

48VDC power, or 3kVA – 200kVA rack mount or modular UPS system protect power continuity.

Cooling System

2.5kW – 90kW rack / row mount precision cooling, seamlessly matched to the rack.

Server Rack

Standard 19-inch server cabinet, glass front door, sheet metal back door

Customize with Expert

AgileRow™ Series

Technical Data - AgileRow Type Micro Data Center

Model	Customization
Maximum Rack No. -pcs	20 / Row
Power Density -kW/Rack	<20
Rack Depth -mm	1400 or customize
Rack Width -mm	600 / 800
Rack Height -mm	2000 / 2200 / 2500
Closed Aisle	Hot and cold aisles are fully closed or semi-closed
Power Section	
UPS -kVA	Up to 200kVA / unit
Battery	Per Situation, VRLA / Lithium-ion Battery
PDU	Basic / Smart
Cooling System	
DX Cooling -kW	Up to 90kW / unit
Cooling Type	DX / CW
Mount Type	Top / Row / Rack
Fire System	
Fire detection Sensor	Smoke / Temp / Early Detection
Fire Extinguishing Gas	FM200
Mount Type	Rack
Monitoring Section	
	Touch Screen, Remote Web Access
	Temp. & Hum.
	Power Mgmt.
Monitoring Function	Cooling Mgmt.
	Fire Detection
	Water Leaking
	Video Monitoring
	Access control

Customize with Expert

AgileCub™ Series

Atom container type Micro Data Center designed and engineered with standard container size of all in one design helps IT professionals deploy data center quickly and easily.

Fire System

Fire extinguisher and early detection system.

Cooling System

2.5kW – 40kW precision cooling in rack mount, top mount and row mount type.

Monitoring System

All in one monitoring host collects, displays and reports system status, locally and remotely.

Power Distribution

Rack mount power distribution, metering, and management for all the power lines.

UPS System

3kVA – 200kVA rack mount modular UPS system protect power continuity.

Security System

3 in 1 access control system(Pin/Fingerprint /RFID) and video monitoring system.

Battery System

Optional lead-acid batteries and lithium-ion batteries (Rack-mount)

Rack System

Standard 19-inch server cabinet, 75% front and rear mesh door through-hole ratio, static load up to 1800kg, various options available

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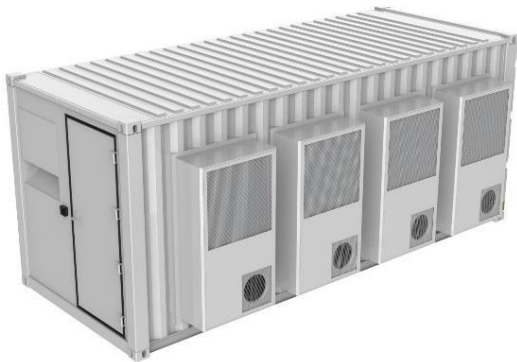
AgileCub™ Series



10F Container Data Center

All in one 10F Container MDC fully integrated with standard rack, wall mount cooling, AC/DC power, battery, power distribution, security, monitoring and fire systems.

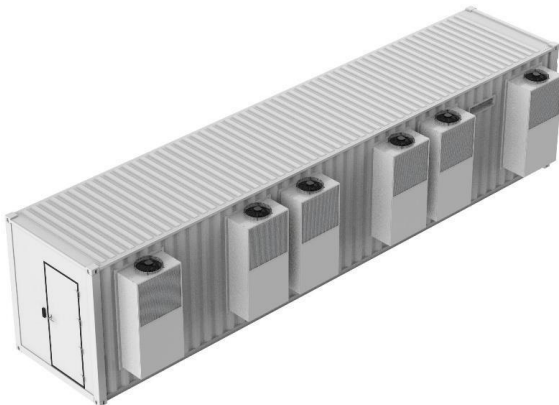
IP55 protection and thermal insulated for outdoor deployment.



20F Container Data Center

All in one 20F Container MDC fully integrated with standard rack, wall mount cooling, AC/DC power, battery, power distribution, security, monitoring and fire systems.

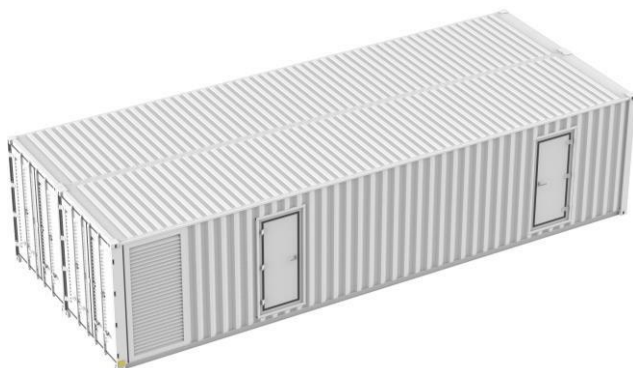
IP55 protection and thermal insulated for outdoor deployment.



40F Container Data Center

All in one 40F Container MDC fully integrated with standard rack, wall mount cooling, AC/DC power, battery, power distribution, security, monitoring and fire systems.

IP55 protection and thermal insulated for global deployment.



Dual Container Data Center

Assembled from 2 or more containers, integrated with standard rack, row mount cooling, AC/DC power, battery, power distribution, security, monitoring and fire systems.

IP55 protection and thermal insulated for global deployment.

Customize with Expert

AgileCub™ Series

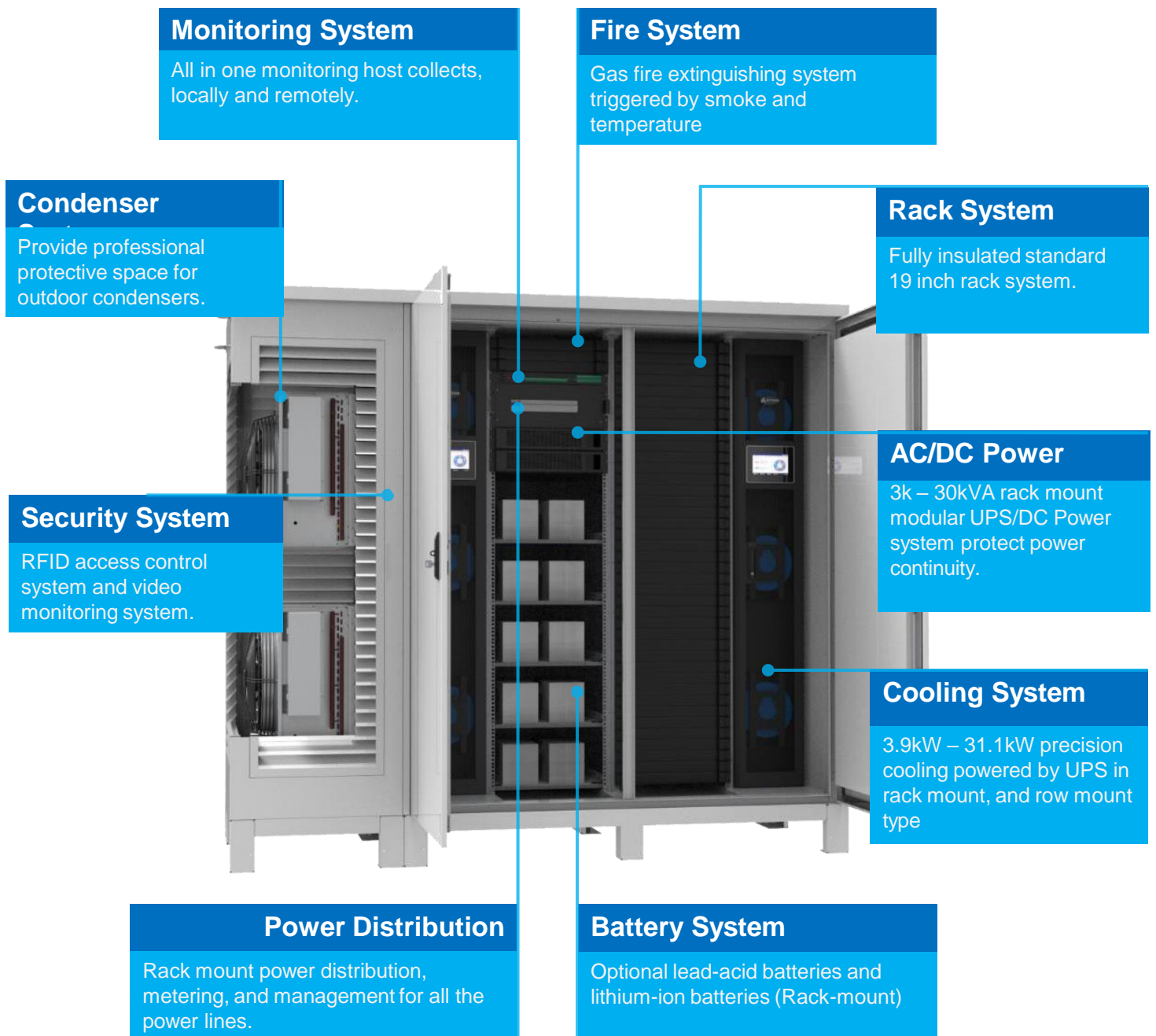
Technical Data – AgileCub Containerized Micro Data Center

Model	ATM-10-C03	ATM-20-C03	ATM-30-C08	ATM-60-C08	ATM-80-C18	ATM-140-C18	ATM-160-C36	ATM-320-C36	Customization
IT Rack No.	2	2	6	6	16	14	32	30	Per Definition
Power Density - kW/Rack	5	10	5	10	5	10	5	10	<20
Container Width -mm	2438	2438	2438	2438	2438	2438	4876	4876	Per Definition
Container Length -mm	2991	2991	6058	6058	12192	12192	12192	12192	Per Definition
Container Height -mm	2896	2896	2896	2896	2896	2896	2896	2896	Per Definition
Power System									
Power Redundancy	N+1	N+1	N+1	N+1	N+1	N+1	N+1	N+1	N+1 / 2N
UPS Capacity -kVA	2* 10	3* 10	3* 15	5* 15	5* 25	7* 25	8* 25	7* 50	Max. 500kVA
UPS Type	Rack	Rack	Sub-Modular	Sub-Modular	Sub-Modular	Sub-Modular	Sub-Modular	Floor-Modular	Configure on demand
Battery	15min@10kW	15min@20kW	15min@30kW	15min@60kW	15min@80kW	15min@140kW	15min@160kW	15min@300kW	Configure on demand
PDU	Smart Type	Smart Type	Smart Type	Smart Type	Smart Type	Smart Type	Smart Type	Smart Type	Per Situation
Cooling System									
Cooling Redundancy	N+1	N+1	N+1	N+1	N+1	N+1	N+1	N+1	N+1 / 2N
Capacity -kW	2* 12.5	2* 21.2	3* 17.5	4* 21.2	5* 21.2	8* 21.2	10* 21.2	18* 21.2	Row /Room /Wall
Mount Type	Wall	Wall	Wall	Wall	Wall	Wall	Wall	Wall	Row /Room /Wall
Fire Extinguishing System									
Fire Warning System	VESDA /Smoke/Temp	VESDA /Smoke/Temp	VESDA /Smoke/Temp	VESDA /Smoke/Temp	VESDA /Smoke/Temp	VESDA /Smoke/Temp	VESDA /Smoke/Temp	VESDA /Smoke/Temp	VESDA /Smoke /Temp
Fire Extinguishing Gas	FM200 / Novec1230	FM200 / Novec1230	FM200 / Novec1230	FM200 / Novec1230	FM200 / Novec1230	FM200 / Novec1230	FM200 / Novec1230	FM200 / Novec1230	FM200 / Novec1230
DCIM System									
	Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen
	Temp. & Hum.	Temp. & Hum.	Temp. & Hum.	Temp. & Hum.	Temp. & Hum.	Temp. & Hum.	Temp. & Hum.	Temp. & Hum.	Temp. & Hum.
	Power Mgmt.	Power Mgmt.	Power Mgmt.	Power Mgmt.	Power Mgmt.	Power Mgmt.	Power Mgmt.	Power Mgmt.	Power Mgmt.
Monitoring Function	Cooling Mgmt.	Cooling Mgmt.	Cooling Mgmt.	Cooling Mgmt.	Cooling Mgmt.	Cooling Mgmt.	Cooling Mgmt.	Cooling Mgmt.	Cooling Mgmt.
	Fire Detection	Fire Detection	Fire Detection	Fire Detection	Fire Detection	Fire Detection	Fire Detection	Fire Detection	Fire Detection
	Water Leaking	Water Leaking	Water Leaking	Water Leaking	Water Leaking	Water Leaking	Water Leaking	Water Leaking	Water Leaking
	Video Monitoring	Video Monitoring	Video Monitoring	Video Monitoring	Video Monitoring	Video Monitoring	Video Monitoring	Video Monitoring	Video Monitoring

Customize with Expert

AgileHub™ Series

AgileHub Micro Data Center developed with multiple configurations that fit into diverse application scenario, all with prefabricated size supports predicted management and quick deployment.



Customize with Expert

AgileHub™ Series



1-Rack MDC with Rack Cooling

MDC fully integrated with 1 rack space, rack cooling, AC/DC power, battery, power distribution, security, monitoring and fire systems.

IP55 protection and thermal insulated for outdoor deployment.



2-Rack MDC with Rack Cooling

MDC fully integrated with 2 rack space, rack cooling, AC/DC power, battery, power distribution, security, monitoring and fire systems.

IP55 protection and thermal insulated for outdoor deployment.



2-Rack MDC with Row Cooling

MDC fully integrated with 2 rack space, inrow cooling, AC/DC power, battery, power distribution, security, monitoring and fire systems.

IP55 protection and thermal insulated for outdoor deployment.



3-Rack MDC with Rack Cooling

MDC fully integrated with 3 rack space, rack cooling, AC/DC power, battery, power distribution, security, monitoring and fire systems.

IP55 protection and thermal insulated for outdoor deployment.

Customize with Expert

AgileHub™ Series

Technical Data – AgileHub Outdoor Micro Data Center

Model	ATM-03-H01W	ATM-06-H01K	ATM-10-H02K	ATM-10-H02R	ATM-20-H03K	Customization
Available IT Space	33U	27U	67U	73U	101U	Max 3 Rack
Redundancy	N	N	N	N	N	N /N+1 /2N
Width -mm	905	1400	2000	2600	2600	Per Situation
Depth -mm	1080	1600	1600	1600	1600	Per Situation
Height -mm	2105	2300	2300	2300	2300	2600 Max.
Cabinet Weight -kg	160	560	900	1160	1242	Per Situation
IP Level	IP55	IP55	IP55	IP55	IP55	Per Situation
Power Section						
UPS -kVA	Optional	6	10	10	20	Per Situation
Recommended IT Power -kW	1.5	≤3	≤5	≤5	≤10	Per Situation
UPS Type	Rack	Rack	Rack	Rack	Rack	Rack
Battery	Rack-mount Lithium (1* 48V50Ah)	Rack-mount VRLA (2* 16Pcs12V9Ah)	Rack-mount VRLA (2* 16Pcs12V9Ah)	Rack-mount VRLA (2* 16Pcs12V9Ah)	Rack-mount VRLA (32Pcs12V9Ah)	7-200Ah
Backup Time - min	60	20	13	13	5	Per Situation
PDU	BLVD: 8* 1P(MCB)	Basic 16Slots	Basic 16Slots	Basic 16Slots	Basic 16Slots	Basic/Smart
48VDC Power	2* 30A Modules	Optional	Optional	Optional	Optional	Per Situation
Cooling Section						
Cooling Type	Package DX	Split DX	Split DX	Split DX	Split DX	Packaged/Split
Mount Type	Door	Rack	Rack	Row	Rack	Door/Rack/Row
Capacity-kW	1.5	3.9	5	5.6	12	31 Max.
DCIM Section						
Monitoring Function	Remote Web	Remote Web	Remote Web	Remote Web	Remote Web	Remote Web
	Temp.&Hum.	Temp.&Hum.	Temp.&Hum.	Temp.&Hum.	Temp.&Hum.	Temp.&Hum.
	UPS Mgmt.	UPS Mgmt.	UPS Mgmt.	UPS Mgmt.	UPS Mgmt.	UPS Mgmt.
	Cooling Mgmt.	Cooling Mgmt.	Cooling Mgmt.	Cooling Mgmt.	Cooling Mgmt.	Cooling Mgmt.
	Smoke Sensor	Smoke Sensor	Smoke Sensor	Smoke Sensor	Smoke Sensor	Smoke Sensor
	Leaking Sensor	Leaking Sensor	Leaking Sensor	Leaking Sensor	Leaking Sensor	Leaking Sensor
	Door Status	Door Status	Door Status	Door Status	Door Status	Door Status

Customize with Expert

AgileMod™ Series

Monitoring System

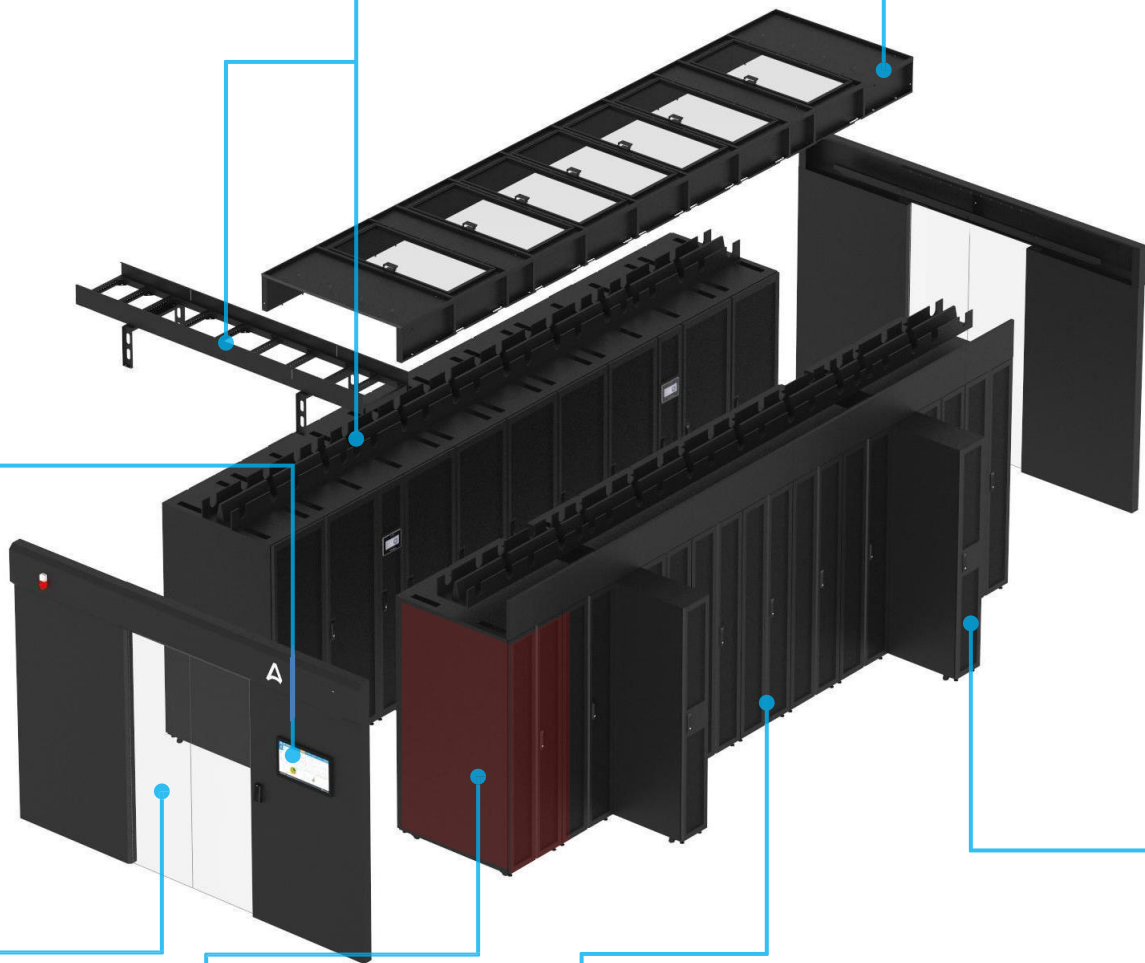
Module-level monitoring system + local touch screen, supporting 3D, temperature cloud map and asset management, etc

Cabling System

Row-level cable ladder supports wiring between two columns of racks, and M-type cabling on the top of the rack supports isolated wiring

Closed Aisle System

It consists of horizontally expanding modular skylights, supports and doors, which can be opened automatically.



Access Door

All-glass door design electric sliding door assembly, support fingerprint + password + RFID access control

Power System

Integrated design of modular UPS and power distribution cabinet, Independent configuration is optional

Server Rack

Standard 19-inch server cabinet, 75% front and rear mesh door through-hole ratio, static load up to 1800kg

Cooling System

Row-mount Cooling system with DX or CW, the same appearance style as the server rack

Customize with Expert

AgileMod™ Series

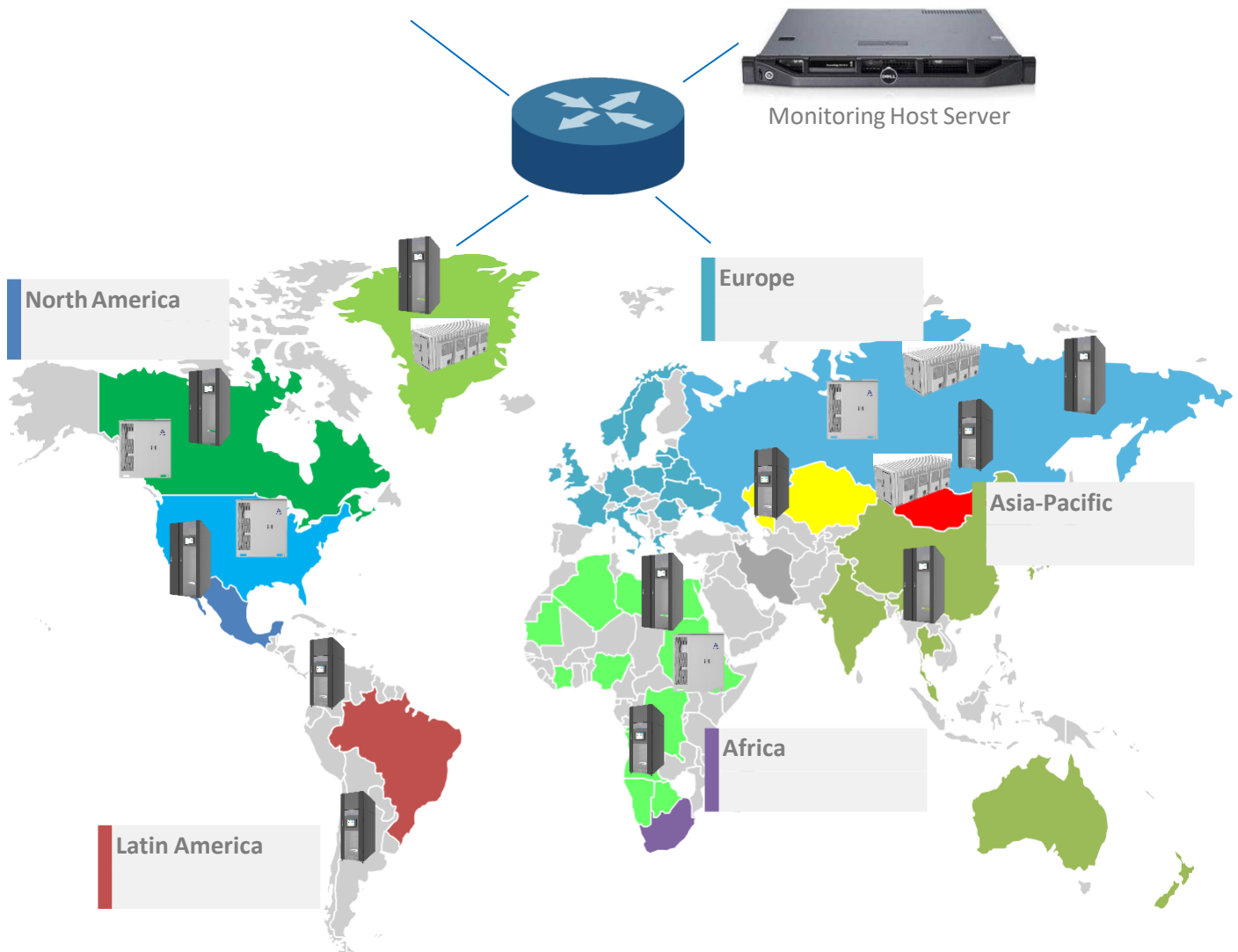
Technical Data – AgileMod Containment Type Micro Data Center

Model	Customized
Maximum Rack No. -pcs	48 / Module
Power Density -kW/Rack	<20
Rack Depth -mm	1000 / 1100 / 1200
Rack Width -mm	600 / 800
Rack Height -mm	2000 / 2200 / 2500
Closed Aisle	Hot aisle closed / Cold aisle closed
Power Section	
UPS -kVA	Up to 500kVA / Unit
Battery	Per Situation, VRLA / Lithium-ion Battery
PDU	Basic / Smart
Cooling System	
Cooling -kW	Up to 200kW / Unit
Cooling Type	DX / CW
Mount Type	Row, Room
Fire System	
Fire type	No independent configuration, room-level fire system is recommended
Fire linkage	Automatically opens closed aisles and doors
Monitoring Section	
	Touch Screen, Remote Web Access
	Temp. & Hum.
	Power Mgmt.
Monitoring Function	Cooling Mgmt.
	Fire Detection
	Water Leaking
	Video Monitoring
	Access Control

Customize with Expert

Centralized Monitoring System

Centralized Monitoring system collects all the distributed Edge Micro Data Centers into a single console, to easily control, alert, and manage the remote sites, and simplify the multiple data center operation.



Customize with Expert

Why Work with Us

We Expertise Micro Data Centers



Expertise

Products designed with heart featuring reliable quality and balanced performance to protect your business revenue.



Speed

A professional team always standby with service spirit and quick response to support your business agility.



Flexibility

Fully customizable as per your requirements to build your own product solution and boost your own business.

Certifications



Customize with Expert

Our Customer Success

We always think in customer perspective to support our customers success. We build our long term success with the values of customer first.



Customize with Expert



Precision Cooling System

Foundation of Digital Future

The professional cooling solutions for you to build highly Reliable, Efficient and Green Data Center.

Customize with Expert

Why Choose Us

We are experts in data center thermal management system.



Quality

Products designed with heart featuring reliable quality and balanced cost to improve your business margin and performance.



Speed

A professional team always standby with service spirit and quick response to support your business agility.



Flexibility

Fully customizable as per your requirements to build your own product solution and boost your own business.

Certifications



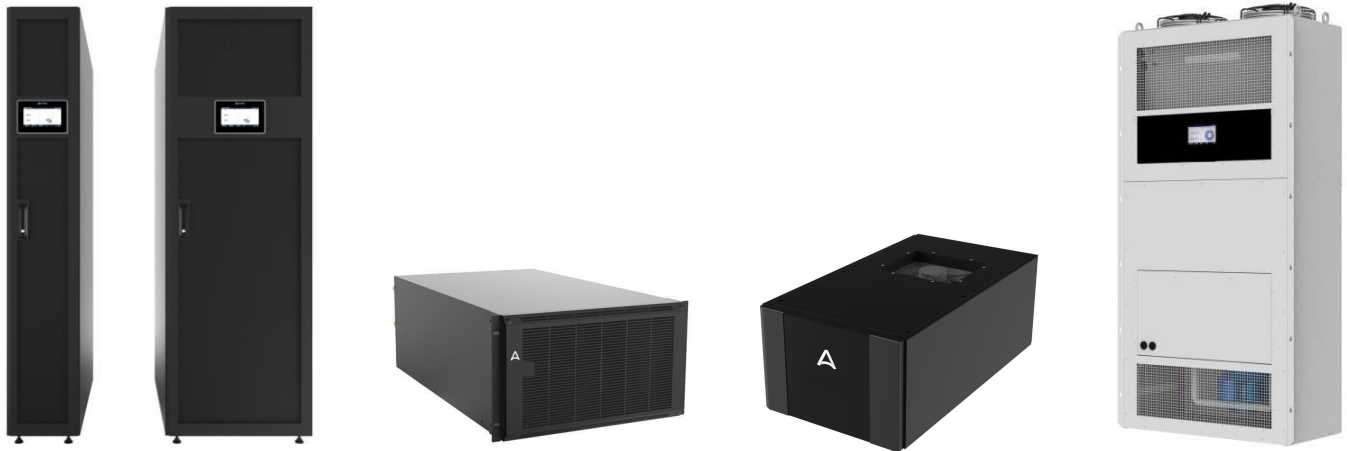
Precision cooling Platform

SmoothAir™

Modular Precision Cooling

Cooling Range: 2.5kW-90kW

Specially designed and optimized for Modular Data Centers.



WiseAir™

Room Precision Cooling

Cooling range: 5.6kW-200kW

Highly reliable computer room air conditioner solutions.



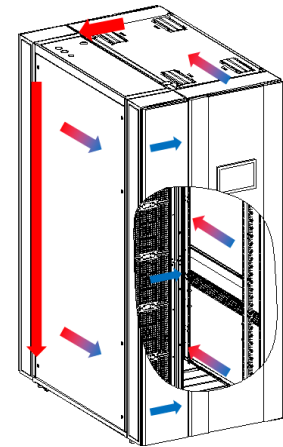
SmoothAir™ – Row Mount

DX

Air cooled, row mount, split type, ideal for micro data center, integrated modular data center solutions.

5.6kW –90.1kW

300 /600 /900mm Width



- 1 Dynamically modulated cooling capacity with inverter compressor maintains temperature within envelop and prevent compressor from cycling during low heat load period.
- 2 Air flow modulates with EC fans to match IT equipment requirements. Each fan module is easy to change with quick couple connections.
- 3 Precision cooling controller monitors and protects unit constantly. Easy to be integrated into BMS to display, control and manage the system.
- 4 R410A green refrigerant is highly efficient and no ODP.
- 5 Copper piping adopts quick connections and supports bottom and top connections.
- 6 Easy to change G4 air filter and sealed doors help to build a clean and quiet MDC.
- 7 Slide drawer style electric box makes service easier.
- 8 Optional with condensate pump, leaking kit and long piping kit for diverse applications.

SmoothAir™ – Row Mount DX

Technical Data

Indoor Unit	S-005RA	S-007RA	S-012RA	S-017RA	S-020RA	S-025RA	S-030RA	S-040RA	S-050RA	S-065RA	S-075RA	S-090RA
Total Cooling-kW	5.6	7.6	12.8	17.6	21.2	25.1	31.1	40.9	51.2	65.7	76.8	90.1
SHR-%	100	100	100	100	100	100	100	100	100	100	100	100
Air Volume-m ³ /h	2000	2250	2400	4500	4920	5000	5800	8000	10000	12000	13500	16000
Mount Type	Row	Row	Row	Row	Row	Row	Row	Row	Row	Row	Row	Row
Cooling Type	DX	DX	DX	DX	DX	DX	DX	DX	DX	DX	DX	DX
Height-mm	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Depth-mm	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
Width-mm	300	300	300	300	300	300	300	600	600	600	900	900
Weight-kg	210	213	233	253	258	260	320	360	420	460	540	620
Reheat-kW	3.0	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	1.5	3	3	3	3	3	3
Power Input ¹⁾	208-240V /50-60Hz /1Ph-2Ph	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-A ¹⁾ with heating	28.2	37.3	48.7	27.0	26.7	27.9	34.6	37.7	48.1	60.6	70.8	84.6
FLA-A ¹⁾ with hum.	33.3	42.4	53.8	32.1	31.8	33.0	39.7	47.9	58.3	70.8	81.0	94.8
Power Input ²⁾	-	-	-	208V /50-60Hz /3Ph	208V /50-60Hz /3Ph	208V /50-60Hz /3Ph	208V /50-60Hz /3Ph	208V /50-60Hz /3Ph	-	-	-	-
FLA-A ²⁾ with heating	-	-	-	49.4	48.8	51.1	63.2	68.9	-	-	-	-
FLA-A ²⁾ with hum.	-	-	-	52.5	52.0	54.2	66.4	75.1	-	-	-	-
Power Input ³⁾	-	-	-	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 ³⁾ with heating	-	-	-	22.3	22.1	23.1	28.6	31.1	39.7	50.1	58.5	69.9
FLA-A ³⁾ with hum.	-	-	-	26.5	26.3	27.3	32.8	39.6	48.2	58.6	66.9	78.4
Standard Outdoor												
Unit Model	KSF08AN	KSF12AN	KSF18AN	KSF24AN	KSF32AN	KSF38AN	KSF42AN	KSF52AN	KSF62AN	KSF85AN	KSF52AN	KSF62AN
Unit Qty	1	1	1	1	1	1	1	1	1	1	2	2

Notes:

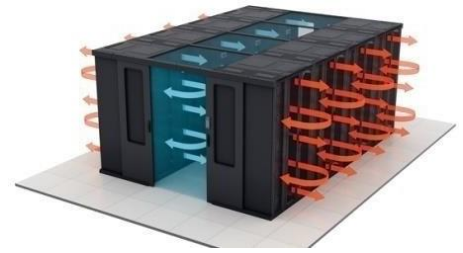
1. Air flow is based upon standard fan speed setting. Fan modulates per real loads.
2. Cooling Capacity based on 37°C/24%RH return air and 45°C condensing temperature.
3. FLA of indoor unit includes FLA of outdoor unit, and outdoor unit power connected from indoor unit.
4. SNMP monitoring port, dual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

SmoothAir™ – Row Mount CW

Chilled water, row mount, ideal for modular data center and container data center solutions.

28.9kW – 65.8kW

300mm/ 600mm Width



- 1** Dynamically modulated cooling capacity with motorized ball valve maintains temperature within envelop and prevent water from cycling during low heat load period.
- 2** Air flow modulates with EC fans to match IT equipment requirements. Each fan module is easy to change with quick couple connections.
- 3** Precision cooling controller monitors and protects unit constantly. Easy to be integrated into BMS to display, control and manage the system.
- 4** Touch type color display panel to easily view and control the units.
- 5** Copper piping supports bottom and top connections.
- 6** Easy to change G4 air filter and sealed doors help to build a clean and quiet MDC.
- 7** Slide drawer style electric box makes service easier.
- 8** Optional with condensate pump, leaking kit and dual power supply for diverse applications.

SmoothAir™ – Row Mount CW

Technical Data

Unit	S-025RC			S-045RC			S-065RC			
	7/12	10/15	13/18	7/12	10/15	13/18	7/12	10/15	13/18	
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 (40°C Return Air)	41.0	36.8	32.9	65.4	59.0	52.4	93.2	84.0	74.8	
Total Capacity –kW (37°C Return Air)	38.8	33.0	28.9	59.8	52.4	46.0	87.0	75.0	65.8	
Total Capacity –kW (35°C Return Air)	37.1	30.7	26.3	56.6	48.2	41.6	83.0	69.0	59.6	
Total Capacity –kW (32°C Return Air)	33.8	27.0	22.2	51.2	41.4	34.8	75.2	60.4	50.4	
Total Capacity –kW (30°C Return Air)	31.1	24.3	19.5	47.0	37.0	30.4	69.6	54.4	44.2	
SHR -%		100			100			100		
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 Input ¹⁾		208-240V/50-60Hz/1Ph-2Ph			380-415V/50-60Hz/3Ph			380-415V/50-60Hz/3Ph		
FLA –A ¹⁾ with heating		22.7			13.7			16.0		
FLA –A ¹⁾ with hum.		27.8			18.8			26.1		
Power Input ²⁾		-			208V/50-60Hz/3Ph			208V/50-60Hz/3Ph		
FLA –A ²⁾ with heating		-			25.1			29.2		
FLA –A ²⁾ with hum.		-			28.1			35.5		
Power Input ³⁾		-			460V/50-60Hz/3Ph			460V/50-60Hz/3Ph		
FLA –A ³⁾ with heating		-			11.3			13.2		
FLA –A ³⁾ 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.

SmoothAir™ – Row Mount DX Package

Type

Air cooled, row mount package self contained type, ideal for data center without space for outdoor condenser

5.6kW –10.8kW

300mm Width



- 1 Dynamically modulated cooling capacity with inverter compressor maintains temperature within envelop and prevent compressor from cycling during low heat load period.
- 2 Air flow modulates with EC fans to match IT equipment requirements. Each fan module is easy to change with quick couple connections.
- 3 Precision cooling controller monitors and protects unit constantly. Easy to be integrated into BMS to display, control and manage the system.
- 4 R410A green refrigerant is highly efficient and no ODP.
- 5 Built in condenser with EC fan speed adjustable to meet tight space application. Optional with duct hose to be connecting to air vent.
- 6 Easy to change G4 air filter and sealed doors help to build a clean and quiet MDC.
- 7 Easy to touch electric box makes service convenient.
- 8 Optional with SNMP communication, condensate pump, water leaking kit.

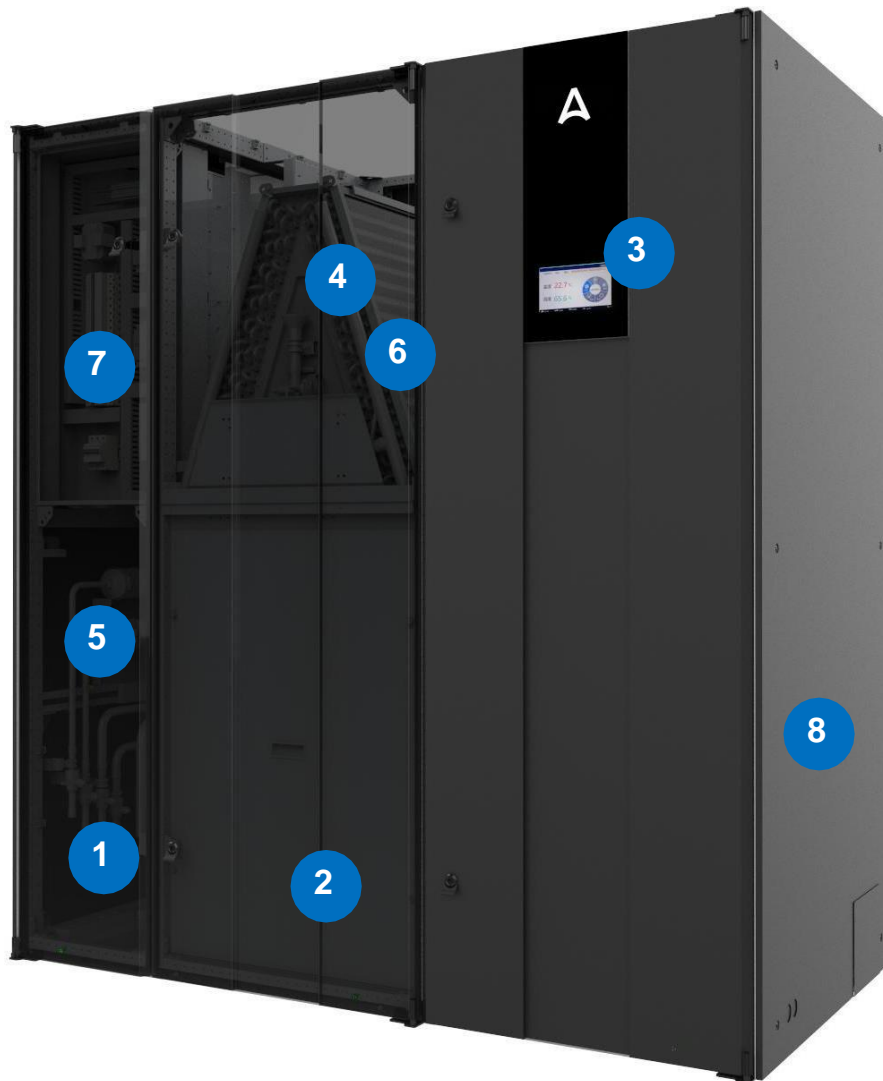
SmoothAir™ – Row Mount Package DX Type

Technical Data			
Indoor Unit	S-005PA	S-007PA	S-010PA
Total Cooling-kW	5.6	7.6	10.8
SHR-%	100	100	100
Air Volume-m ³ /h	2000	2250	2500
Mount Type	Row	Row	Row
Cooling Type	DX Self-Contained	DX Self-Contained	DX Self-Contained
Height-mm	2000(42U)	2000(42U)	2000(42U)
Depth-mm	1100	1100	1100
Width-mm	300	300	300
Weight-kg	210	213	233
Reheat-kW	3.0	3.0	3.0
Hum.(optional)-kg/h	1.5	1.5	1.5
Power Input ¹⁾	208-240V/50-60Hz/1Ph-2Ph	208-240V/50-60Hz/1Ph-2Ph	208-240V/50-60Hz/1Ph-2Ph
FLA - A	28.2	37.3	48.7
FLA - A ¹⁾ with hum.	33.3	42.4	53.8

Notes:

- 1, Air flow is based upon unit speed setting. Fan modulates per real loads.
- 2, Cooling Capacity based on 37°C/24%RH return air and 35°C outdoor temperature.
- 3, SNMP monitoring port, dual power input, condenser air duct and leaking detection are optional.
- 4, Standard unit works -15°C above outdoor temperature, select low temperature kit to run for -35C outdoor ambient temperature.

WiseAir™ – Product Configuration



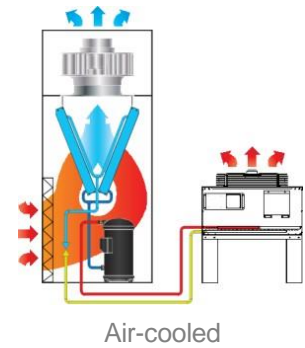
- 1** Highly reliable scroll compressor
- 2** Industry leading brands EC / AC fan
- 3** Intelligent industry-leading controller with color touch screen. Supports BMS integration, teamwork and master/slave working policy.
- 4** A large area of high-efficiency heat exchanger
- 5** Industry-leading brands thermostatic expansion valve/electronic expansion valve
- 6** A large area air filtration system closed to heat exchanger
- 7** Electrode humidifier
- 8** Modular design of cabinet can easily achieve secondary disassembly

WiseAir™ – Product Configuration

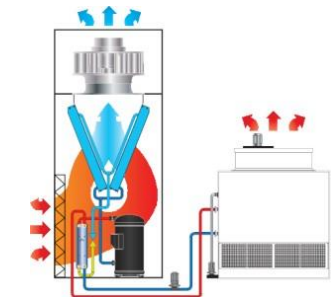
- Downflow



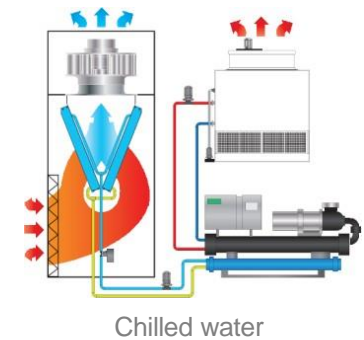
Cooling Type



Air-cooled



Water-cooled



Chilled water

- 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

WiseAir™ – Room Cooling DX Type

Technical Data

Upflow Unit Downflow Unit	W-005FA W-005DA	W-007FA W-007DA	W-012FA W-012DA	W-017FA W-017DA	W-020FA W-020DA	W-025FA W-025DA
Cooling Capacity –kW	5.5	7.5	12.5	17.5	21.2	27.5
Sensible Capacity –kW	5.2	6.8	11.3	15.9	19.1	25
SHR-%	94.5	90.7	90.4	90.9	90.1	90.9
Air Volume -m ³ /h	2000	2250	2850	5000	6200	6700
Fan Type	AC / EC	AC / EC	AC / EC	AC / EC	AC / EC	AC / EC
Heating Capacity-kW	3	3	4	6	6	6
Heating Type	PTC	PTC	PTC	PTC	PTC	PTC
Humidification Capacity -kg/h	2.5	2.5	4	4.5	4.5	5
Humidifier Type	Electrode	Electrode	Electrode	Electrode	Electrode	Electrode
Filter Rating	G3	G3	G3	G4	G4	G4
Weight -kg	118	128	178	300	318	338
Width -mm	550	550	650	750	750	850
Depth -mm	450	450	550	700	700	700
Height -mm	1750	1750	1850	1900	1900	1900
Power Input ¹⁾	208-240V /50Hz/60Hz /1Ph/2Ph	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	14.5	16.5	13.1	14.3	19.4	23.1
FLA -A ¹⁾ with heating/hum.	28.2	30.2	19.2	23.4	28.5	32.2
Power Input ²⁾	-	-	208V/60Hz/3Ph	208V/60Hz/3Ph	208V/60Hz/3Ph	208V/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	10/12	12/16	16/16	16/16	16/22
Drain Connection –mm	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
Single/Dual System	Single	Single	Single	Single	Single	Single
Refrigerant Type	R410A	R410A	R410A	R410A	R410A	R410A
Standard Outdoor						
Unit Model	KSF08	KSF12	KSF18	KSF24	KSF24	KSF32
Unit Numbers	1	1	1	1	1	1

Notes:

- 1, Capacity based on 24°C/50%RH return air conditions, and 45°C condensing 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.

WiseAir™ – Room Cooling DX

Type

Technical Data

Upflow Unit Downflow Unit	W-030UA W-030DA	W-035UA W-035DA	W-040UA W-040DA	W-050UA W-050DA	W-045UA W-045DA	W-055UA W-055DA	W-065UA W-065DA	W-070UA W-070DA	W-080UA W-080DA	W-090UA W-090DA	W-100UA W-100DA	W-110UA W-110DA	W-120UA W-120DA
Cooling Capacity - kW	32.5	37.7	41.8	50	43.5	50.1	65.1	71.1	83.6	92.1	100.9	110.9	122.9
Sensible Capacity - kW	29.3	34	38.1	45	39.2	45.2	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
Air Volume -m ³ /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	768	866	888	910	980
Width -mm	1126	1126	1326	1326	1326	1326	1826	1826	2026	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⁾	208V /60Hz /3Ph	208V /60Hz /3Ph	208V /60Hz /3Ph	208V /60Hz /3Ph	208V /60Hz /3Ph	208V /60Hz /3Ph	208V /60Hz /3Ph	208V /60Hz /3Ph	208V /60Hz /3Ph	208V /60Hz /3Ph	208V /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 Numbers	KSF38	KSF52	KSF52	KSF62	KSF32	KSF38	KSF42	KSF52	KSF52	KSF62	KSF62	KSF70	KSF76
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°C condensing 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.

WiseAir™ – Room Cooling CW

Type

Technical Data

Upflow Unit Downflow Unit	W-030UC W-030DC	W-040UC W-040DC	W-050UC W-050DC	W-060UC W-060DC	W-070UC W-070DC	W-080UC W-080DC	W-090UC W-090DC	W-100UC W-100DC	W-110UC W-110DC
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 -m ³ /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 Type ¹⁾	380V /50-60Hz/3P	380V /50-60Hz/3P	380V /50-60Hz/3P	380V /50-60Hz/3P	380V /50-60Hz/3P	380V /50-60Hz/3P	380V /50-60Hz/3P	380V /50-60Hz/3P	380V /50-60Hz/3P
FLA -A ¹⁾	22.2	22.2	22.2	22.4	38.8	38.8	38.8	38.8	39.2
Power Type ²⁾	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 -A ²⁾	18.4	18.4	18.4	18.5	32.0	32.0	32.0	32.0	32.3
Power Type ³⁾	208V/60Hz/3P	208V/60Hz/3P	208V/60Hz/3P	208V/60Hz/3P	208V/60Hz/3P	208V/60Hz/3P	208V/60Hz/3P	208V/60Hz/3P	208V/60Hz/3P
FLA -A ³⁾	40.2	40.2	40.2	40.6	75.7	75.7	75.7	75.7	76.4
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.									
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

WiseAir™ – Room Cooling CW

Type

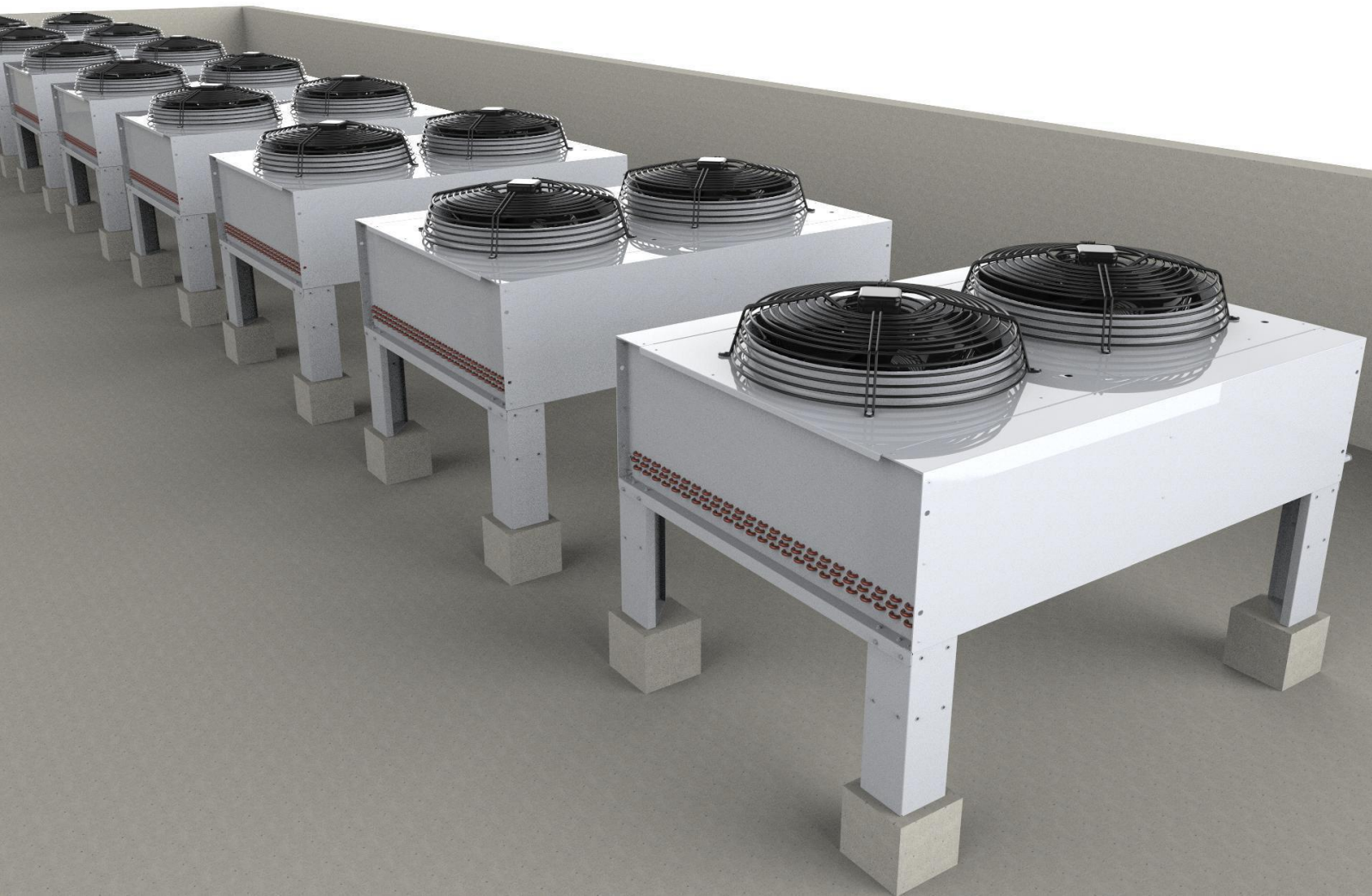
Technical Data

Upflow Unit Downflow Unit	W-120UC W-120DC	W-130UC W-130DC	W-140UC W-140DC	W-150UC W-150DC	W-160UC W-160DC	W-170UC W-170DC	W-180UC W-180DC	W-190UC W-190DC	W-200UC W-200DC
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
Air Volume -m ³ /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 Type ¹⁾	380V /50-60Hz/3P	380V /50-60Hz/3P	380V /50-60Hz/3P	380V /50-60Hz/3P	380V /50-60Hz/3P	380V /50-60Hz/3P	380V /50-60Hz/3P	380V /50-60Hz/3P	380V /50-60Hz/3P
FLA -A ¹⁾	39.2	39.2	39.2	47.3	47.3	47.9	47.9	47.9	47.9
Power Type ²⁾	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 -A ²⁾	32.3	32.3	32.3	39.1	39.1	39.6	39.6	39.6	39.6
Power Type ³⁾	208V/60Hz/3P	208V/60Hz/3P	208V/60Hz/3P	208V/60Hz/3P	208V/60Hz/3P	208V/60Hz/3P	208V/60Hz/3P	208V/60Hz/3P	208V/60Hz/3P
FLA -A ³⁾	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.

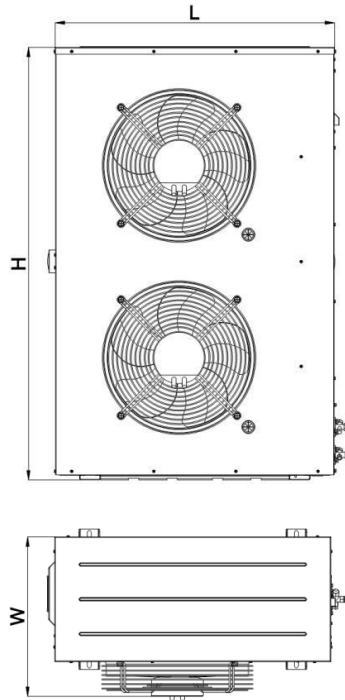
Air Cooled Condenser



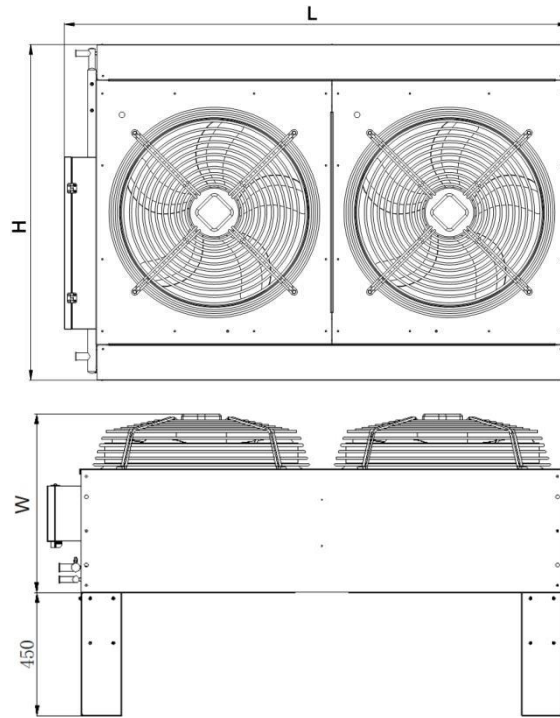
Key Configurations

- EC Fan Stepless Speed Adjusting
- Standard Quick Connector
- Efficient Finned with Heat Transfer Enhancement
- Inverter Driven Fan Stepless Speed Adjusting
- Internally Threaded Piping
- High-quality Anti-corrosion Coating
- Protective Structure for Piping Headers
- IP55 Waterproof Electrical Box
- Internally Threaded Piping
- High-quality Anti-corrosion Coating
- IP55 Waterproof Electrical Box

Air Cooled Condenser



KSF08 - KSF18



KSF24 - KDF85

Technical Data

Model	KSF08AN	KSF12AN	KSF18AN	KSF24AN	KSF32AN	KSF38AN	KSF42AN	KSF52AN	KSF62AN	KSF70AN	KSF76AN	KSF85AN	KDF62AN	KDF70AN	KDF76AN	KDF85AN
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 Input ¹⁾	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 -A ¹⁾	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 Input ²⁾	-	-	-	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 -A ²⁾	-	-	-	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

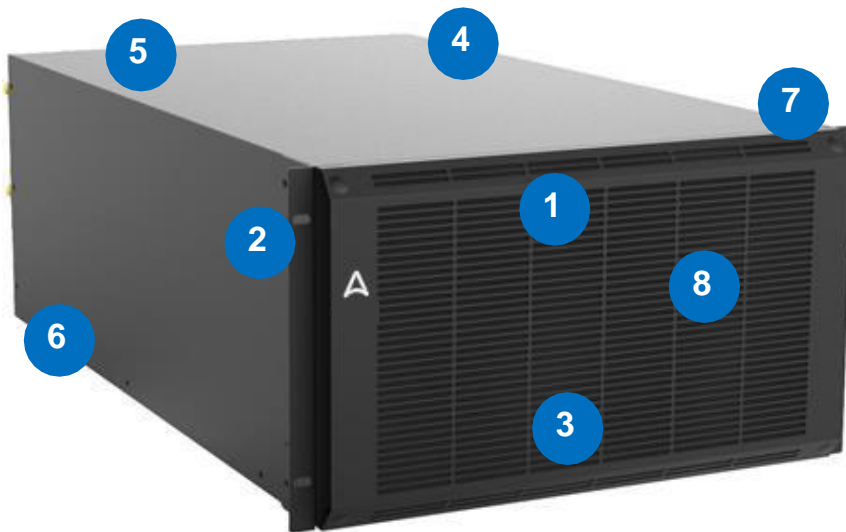
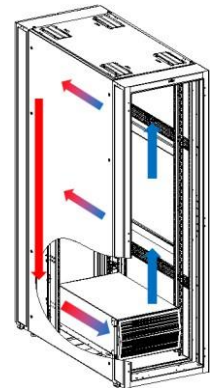
Notes:

- 1, KSF08-KSF18 is vertical installation;
- 2, KSF24 and above is horizontal/vertical adaptive;

SmoothAir™ – Rack Mount

Air cooled, rack mount, split type, suitable for micro data center, mini modular data center solutions.

3.9kW-12.0kW



1 Inverter compressor and EC fan works at high efficiency, maintains temperature within envelop and prevent compressor from cycling during low heat load period.

2 Standard rack mount structure fully compatible with server rack is flexible for future expansion.

3 Precision cooling controller monitors and protects unit constantly. Easy to be integrated into BMS to display, control and manage the system.

4 Slide drawer style electric box makes service easier.

5 Copper piping adopts quick connection and supports bottom and top connections.

6 Compressor locating in outdoor unit lowers the noise level then better suits customer expectation of mini data center application.

7 R410A green refrigerant is highly efficient and no ODP.

8 Front air outlet suitable for installation on flexible height in a rack.

SmoothAir™ – Rack Mount

Technical Data

Model	S-003KA	S-005KA	S-007KA	S-012KA
Total Capacity-kW	3.9	5.9	8.6	12.8
SHR -%	100	100	100	100
Air Volume -m3/h	700	1800	2000	2400
Mount Type	Rack	Rack	Rack	Rack
Height –mm	266(6U)	355(8U)	445(10U)	533(12U)
Depth –mm	828	828	828	828
Width –mm	483	483	483	483
Weight –kg	31	43	52	70
Reheat(optional) –kW	1.2	1.2	2.4	2.4
Hum.(optional) -kg/h	-	-	-	-
Power Input ¹⁾	208-240V/50-60Hz/1Ph-2Ph	208-240V/50-60Hz/1Ph-2Ph	208-240V/50-60Hz/1Ph-2Ph	380-415V/50-60Hz/3Ph
FLA –A ¹⁾	13.9	15.2	21.6	18
Power Input ²⁾	-	-	-	208V/60Hz/3Ph
FLA –A ²⁾	-	-	-	32.9
Outdoor Unit	KSF06AC	KSF08AC	KSF12AC	KSF18AC
Height -mm	632	790	790	1240
Depth -mm	395	420	420	420
Width -mm	800	820	820	820
Leg Height -mm	-	-	-	-
Weight -kg	35	38	50	77
Power Input ¹⁾	208-240V/50-60Hz/1Ph-2Ph	208-240V/50-60Hz/1Ph-2Ph	208-240V/50-60Hz/1Ph-2Ph	380-415V/50-60Hz/3Ph
FLA –A ¹⁾	12.6	13.2	19.6	16
Power Input ²⁾	-	-	-	208V/50-60Hz/3Ph
FLA –A ²⁾	-	-	-	29.3

Notes:

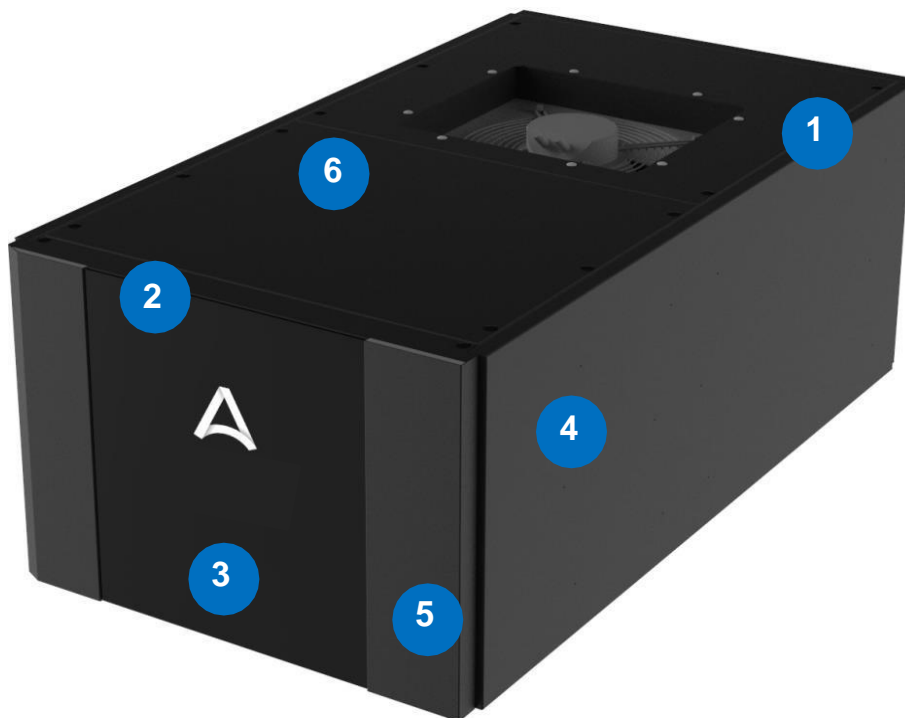
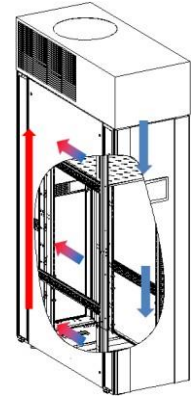
- 1, Air flow is based upon maximum setting. Fan modulates per real loads.
- 2, Cooling capacity based on 37°C/24%RH return air and 35°C outdoor temperature with the standard condenser.
- 3, FLA of indoor unit includes FLA of outdoor unit, and outdoor unit power connected from indoor unit.
- 4, Standard unit works -15°C and above outdoor temperature. Select low temperature kit to work -35°C and above outdoor temperature.

SmoothAir™ – Top Mount Package

DX

Air cooled, top mount, indoor and outdoor packaged, suitable for micro data center, mini modular data center solutions.

2.5kW – 5.5kW



- 1** Industry top brand compressor. Highly reliable and efficient.
- 2** Precision cooling controller monitors and protects unit constantly. Easy to be integrated into BMS to display, control and manage the system.
- 3** Compatible with standard rack size forms unified and integrated micro data center solution.
- 4** Packaged design easy for installation, service and shipping.
- 5** Top mount means good air management of hot/cold stream and no occupying of IT space.
- 6** Green refrigerant is highly efficient and no ODP.

SmoothAir™ – Top Mount Package

DX

Technical Data

Unit	S-002TA	S-003TA	S-005TA
Total Cooling-kW	2.5	3.5	5.5
SHR-%	100	100	100
Air Volume-m ³ /h	500	600	900
Mount Type	Top	Top	Top
Cooling Type	DX	DX	DX
Height-mm	390(9U)	390(9U)	521(12U)
Depth-mm	1100	1100	1100
Width-mm	600	600	600
Weight-kg	50	55	65
Power Input	208-240V/50Hz-60Hz/1Ph-2Ph	208-240V/50Hz-60Hz/1Ph-2Ph	208-240V/50Hz-60Hz/1Ph-2Ph
FLA-A	5.5	6.5	7.8

Notes:

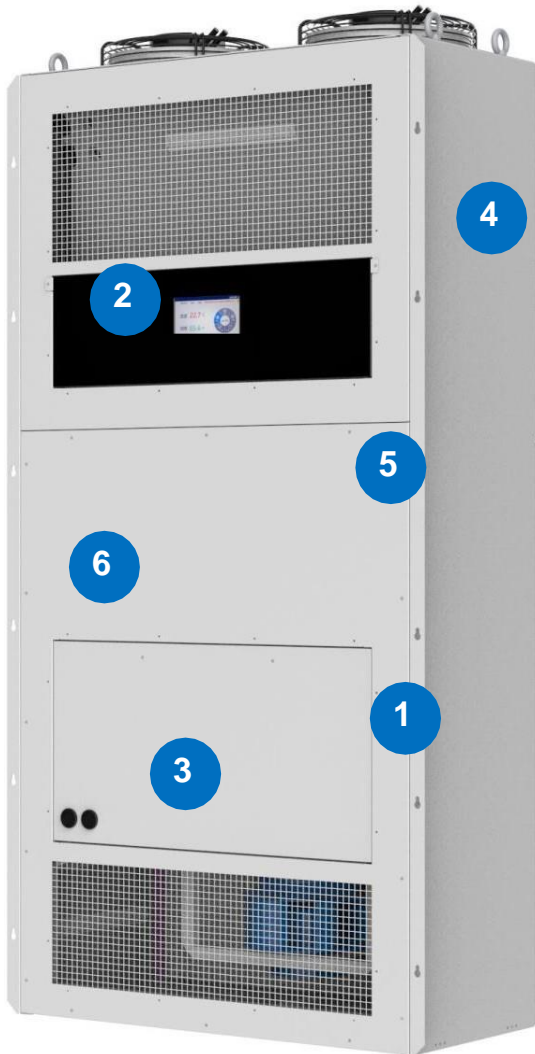
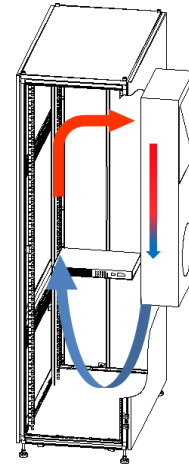
1. Cooling capacity based on 37°C/24%RH return air and 35°C outdoor air.
2. Options including SNMP monitoring protocol, condensate evaporation kit.

SmoothAir™ – Wall Mount Package

DX

Air cooled, wall mount, indoor and outdoor packaged, suitable for micro data center, mini modular data center solutions.

5.5kW–21.2kW



- 1** Industry top brand compressor. Highly reliable and efficient.
- 2** Precision cooling controller monitors and protects unit constantly. Easy to be integrated into BMS to display, control and manage the system.
- 3** Adopts high pressure/high air flow centrifugal blower suiting critical equipment cooling condition.
- 4** Packaged design easy for installation, service and shipping.
- 5** Wall mounting to side of cabinet no occupying of IT space.
- 6** Green refrigerant is highly efficient and no ODP.

SmoothAir™ – Wall Mount Package

DX

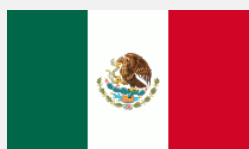
Technical Data

Unit	S-005WA	S-007WA	S-012WA	S-017WA	S-020WA
Total Cooling-kW	5.5	7.5	12.5	17.5	21.2
SHR-%	100	100	100	100	100
Air Volume-m ³ /h	1850	2000	2400	3500	4000
Mount Type	Wall	Wall	Wall	Wall	Wall
Cooling Type	DX	DX	DX	DX	DX
Height-mm	1920	1920	2100	2100	2100
Depth-mm	650	650	650	650	650
Width-mm	900	900	1000	1000	1000
Weight-kg	180	230	285	320	355
Power Input ¹⁾	208-240V /50Hz 60Hz /1Ph-2Ph	208-240V /50Hz 60Hz /1Ph-2Ph	380-415V /50Hz 60Hz /3Ph	380-415V /50Hz 60Hz /3Ph	380-415V /50Hz 60Hz /3Ph
FLA-A ¹⁾	15.6	17.6	16.0	19.5	27.5
Power Input ²⁾	-	-	460V/60Hz/3Ph	460V/60Hz/3Ph	460V/60Hz/3Ph
FLA-A ²⁾	-	-	12.4	16.2	22.8

Notes:

1. Cooling Capacity based on 26°C/40%RH return air and 35°C outdoor air.
2. The frequency 50Hz or 60Hz is choiceable upon order.
3. The refrigerant R134a is used for the ambient temperature up to 55C maximum.

Our Global Deployments



Customize with Expert

We believe the world is
being totally connected.
The connections are
creating digital intelligence
and a better future.

We create prefabricated
micro data center
products to build
foundation of digital
future.

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