

>> Foundation of Digital Future





Why Work with Attom

We are experts with 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















SmoothAir - Row Mount Split DX

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

5.6kW - 90.1kW





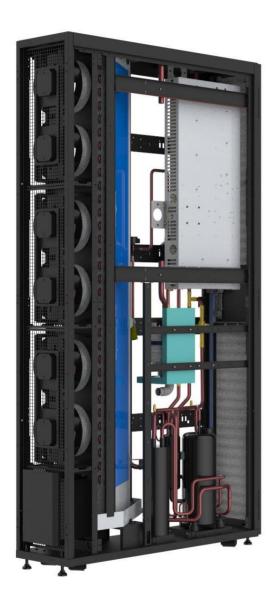


- Dynamically modulated cooling capacity with inverter compressor maintains temperature within envelop and prevent compressor from cycling during low heat load period.
- R410A green refrigerant is highly efficient and no ODP. Optional with R134a refrigerant for high ambient site up to 55C.
- Air flow modulates with EC fans to match IT equipment requirements. Each fan module is easy to change with quick couple connections.
- Copper/water piping support bottom and top connections.
- Precision cooling controller monitors and protects unit constantly. Easy to be integrated into BMS to display, control and manage the system.
- Airflow direction is configurable upon order for easier integration with different types of data center layout.



SmoothAir - Row Mount Split DX

The units designed with top brands components to realize leading level reliability and efficiency.





EC Fan

EC Fan modulates airflow precisely matching heat load while saving energy by adjusting fan speed.



Smart Controller

Intelligent controller automatically monitoring ad adjusting the components outputs in the optimized balance.



Electronic Expansion Valve

EEV (electronic expansion valve) precisely maintain the refrigerant flow in the efficient way reducing the compressor/pump power consumption.



Reliable Compressor

Inverter compressor adjusting capacity of whole system per heat load requirement, saving energy during part load application. Working up to 55C ambient with R134a refrigerant option.



SmoothAir - Row Mount Split 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-m3/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								
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⁾	-	-	380-415V /50-60Hz /3Ph	200-230V /50-60Hz /3Ph	200-230V /50-60Hz /3Ph	200-230V /50-60Hz /3Ph	200-230V /50-60Hz /3Ph	200-230V /50-60Hz /3Ph	-	-	-	-
FLA-A ^{2)with heating}	-	-	20.9	49.4	48.8	51.1	63.2	68.9	-	-	-	-
FLA-A ^{2)with hum.}	-	-	22.0	52.5	52.0	54.2	66.4	75.1	-	-	-	-
Power Input ³⁾	-	-	-	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

- Air flow is based upon standard fan speed setting. Fan modulates per real loads.
- Cooling Capacity based on 37°C/24%RH return air and 45°C condensing temperature.
- FLA of indoor unit includes FLA of outdoor unit, and outdoor unit power connected from indoor unit. 3.
- SNMP monitoring port, dual power input, and leaking detection are optional.

 Standard unit works -15°C above outdoor temperature, select low temperature kit to run for -35C outdoor ambient temperature.



SmoothAir - Row Mount Package DX

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

5.6kW - 10.8kW





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



SmoothAir - Row Mount Package DX

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-m3/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	1200	1200	1200
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

- 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.



SmoothAir - Row Mount Chilled Water

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

28.9kW - 65.8kW





- Dynamically modulated cooling capacity with motorized ball valve maintains temperature within envelop and prevent water from cycling during low heat load period.
- Touch type color display panel to easily view and control the units.
- Air flow modulates with EC fans to match IT equipment requirements. Each fan module is easy to change with quick couple connections.
- Copper piping adopts quick connections and supports bottom and top connections.
- Precision cooling controller monitors and protects unit constantly. Easy to be integrated into BMS to display, control and manage the system.
- Easy to change G4 air filter and sealed doors help to build a clean and quiet MDC.



SmoothAir - Row Mount Chilled Water

The units are designed with top-brand components to optimize cooling performance within data centers.





EC Fan

EC Fan modulates airflow precisely matching heat load while saving energy by adjusting fan speed.



Smart Controller

Intelligent controller automatically monitoring and adjusting the components outputs in the optimized balance.



Water Valve

ball valve is easily installed with just one bolt. The actuator features a manual button for manual operation and has fullstroke automatic overload protection, eliminating the need for limit switches.

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SmoothAir - Row Mount Chilled Water

Technical Data

Unit	S-025RC			S-045RC			S-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	93.0	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 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⁾	-			200-230V/50-60Hz/3Ph			200-230V/50-60Hz/3Ph			
FLA —A ²)with heating	-			25.1			29.2			
FLA —A ²)with hum.	-			28.1			35.5			
Power Input ³⁾	_			1	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.



One-stop Provider of Precision Cooling

1.5- 30kW

Package Type

Air Cool Platform

3.9- 12kW Split

Package Type

3.5-5.5kW



12-36kW Split

Type





Row Cool

- 5.6- 90kW Split Type
- 5.6 10.6kW Package Type

Room Cool

5.5- 120kW Split
 DX Type
 26 – 280 kW CW
 Type

Liquid Cool Platform



Immersion Liquid Cool

 10kW – 2MW immersion cooling tanks, dry coolers and water connection kits.





Cold-plate Liquid Cool

 50kW – 350kW CDU, dry cooler, and water connection kits.



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

We design and deliver green efficient data center infrastructure products to build foundation of digital future.



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