

# ATTOM 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

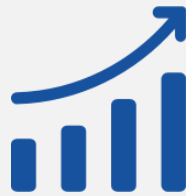
# Why Choose Us

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



# Attom 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

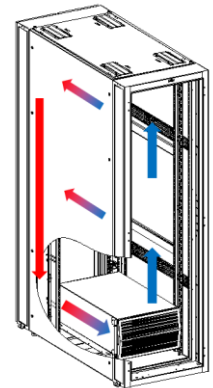
Highly reliable computer room air conditioner solutions.



# SmoothAir™ – Rack Mount

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

**3.9kW-12.0kW**



- |  |  |
|--|--|
| <p><b>1</b> Inverter compressor and EC fan works at high efficiency, maintains temperature within envelop and prevent compressor from cycling during low heat load period.</p> | <p><b>5</b> Copper piping adopts quick connection and supports bottom and top connections.</p>   |
| <p><b>2</b> Standard rack mount structure fully compatible with server rack is flexible for future expansion.</p>  | <p><b>6</b> Compressor locating in outdoor unit lowers the noise level then better suits customer expectation of mini data center application.</p> |
| <p><b>3</b> Precision cooling controller monitors and protects unit constantly. Easy to be integrated into BMS to display, control and manage the system.</p>                  | <p><b>7</b> R410A green refrigerant is highly efficient and no ODP.</p>  |
| <p><b>4</b> Slide drawer style electric box makes service easier.</p>  | <p><b>8</b> Front air outlet suitable for installation on flexible height in a rack.</p>   |

# 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	1100	1200	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 <sup>1)</sup>	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 <sup>1)</sup>	13.9	15.2	21.6	18
Power Input <sup>2)</sup>	-	-	-	208V/60Hz/3Ph
FLA –A <sup>2)</sup>	-	-	-	32.9
Outdoor Unit	KSF06AC	KSF08AC	KSF12AC	KSF18AC
Height -mm	632	790	790	1240
Depth -mm	395	420	420	420
Width -mm	800	800	800	800
Leg Height -mm	-	-	-	-
Weight -kg	35	38	50	77
Power Input <sup>1)</sup>	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 <sup>1)</sup>	12.6	13.2	19.6	16
Power Input <sup>2)</sup>	-	-	-	208V/50-60Hz/3Ph
FLA –A <sup>2)</sup>	-	-	-	29.3

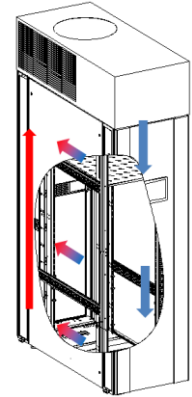
### Notes:

- 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 <sup>3</sup> /h	500	600	1200
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:**

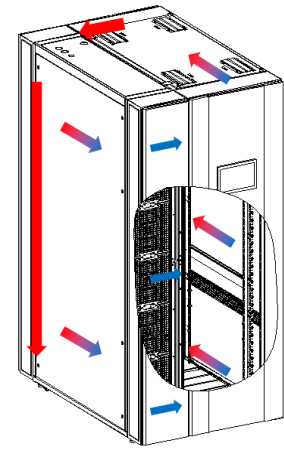
1. Cooling capacity based on 37°C/24%RH return air and 35°C outdoor air.
2. Options including SNMP monitoring protocol, condensate evaporation kit.

# SmoothAir™ – 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-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 <sup>1)</sup>	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 <sup>1)</sup> 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 <sup>1)</sup> 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 <sup>2)</sup>	-	-	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 <sup>2)</sup> with heating	-	-	20.9	49.4	48.8	51.1	63.2	68.9	-	-	-	-
FLA-A <sup>2)</sup> with hum.	-	-	22.0	52.5	52.0	54.2	66.4	75.1	-	-	-	-
Power Input <sup>3)</sup>	-	-	-	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 <sup>3)</sup> with heating	-	-	-	22.3	22.1	23.1	28.6	31.1	39.7	50.1	58.5	69.9
FLA-A <sup>3)</sup> 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:

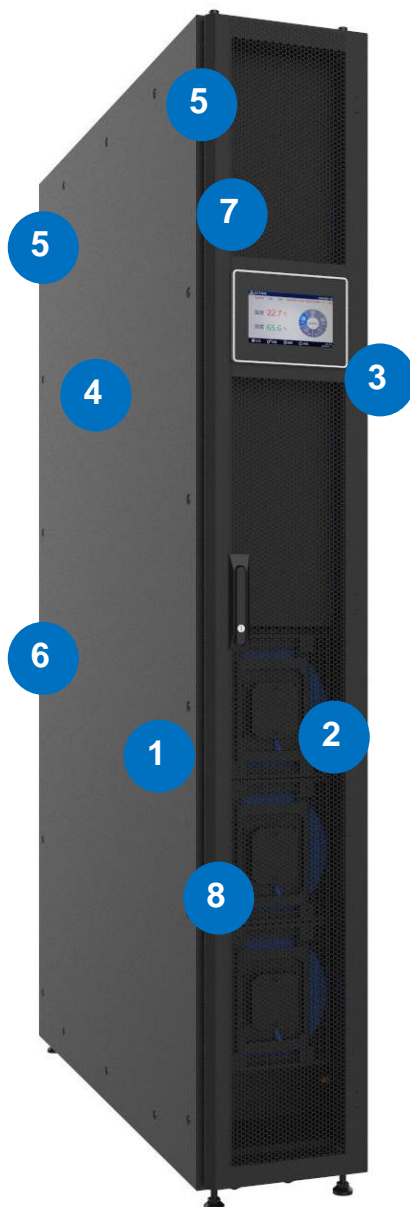
1. Air flow is based upon standard fan speed setting. Fan modulates per real loads.
2. Cooling Capacity based on 37°C/24%RH return air and 45°C condensing temperature.
3. FLA of indoor unit includes FLA of outdoor unit, and outdoor unit power connected from indoor unit.
4. SNMP monitoring port, dual 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 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 envelope 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 <sup>3</sup> /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 <sup>1)</sup>	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 <sup>1)</sup> with hum.	33.3	42.4	53.8

**Notes:**

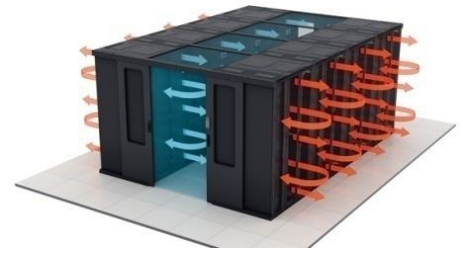
- 1, Air flow is based upon unit speed setting. Fan modulates per real loads.
- 2, Cooling Capacity based on 37°C/24%RH return air and 35°C outdoor temperature.
- 3, SNMP monitoring port, dual power input, condenser air duct and leaking detection are optional.
- 4, Standard unit works -15°C above outdoor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

# 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		
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 <sup>1)</sup>	208-240V/50-60Hz/1Ph-2Ph			380-415V/50-60Hz/3Ph			380-415V/50-60Hz/3Ph		
FLA –A <sup>1)</sup> with heating	22.7			13.7			16.0		
FLA –A <sup>1)</sup> with hum.	27.8			18.8			26.1		
Power Input <sup>2)</sup>	-			200-230V/50-60Hz/3Ph			200-230V/50-60Hz/3Ph		
FLA –A <sup>2)</sup> with heating	-			25.1			29.2		
FLA –A <sup>2)</sup> with hum.	-			28.1			35.5		
Power Input <sup>3)</sup>	-			460V/50-60Hz/3Ph			460V/50-60Hz/3Ph		
FLA –A <sup>3)</sup> with heating	-			11.3			13.2		
FLA –A <sup>3)</sup> 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.



# 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

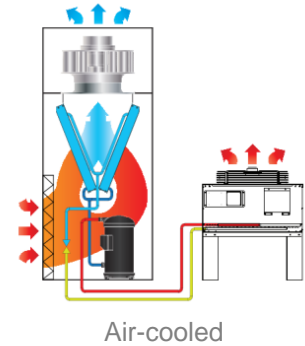
Modular design of cabinet can easily achieve secondary disassembly

# WiseAir™ – Product Configuration

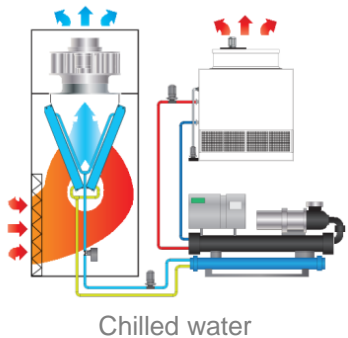
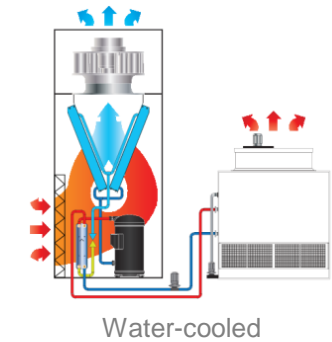
## - Downflow



## Cooling Type



## - 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 <sup>3</sup> /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 <sup>1)</sup>	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 <sup>1)cooling</sup>	14.5	16.5	13.1	14.3	19.4	23.1
FLA -A <sup>1)with heating/hum.</sup>	28.2	30.2	19.2	23.4	28.5	32.2
Power Input <sup>2)</sup>	-	-	200-230V/60Hz/3Ph	200-230V/60Hz/3Ph	200-230V/60Hz/3Ph	200-230V/60Hz/3Ph
FLA -A <sup>2)cooling</sup>	-	-	23.9	26.2	35.4	42.2
FLA -A <sup>2)with heating/hum.</sup>	-	-	35.1	42.9	52.1	58.1
Power Input <sup>3)</sup>	-	-	460V/60Hz/3Ph	460V/60Hz/3Ph	460V/60Hz/3Ph	460V/60Hz/3Ph
FLA -A <sup>3)cooling</sup>	-	-	10.8	11.8	16.0	19.1
FLA -A <sup>3)with heating/hum.</sup>	-	-	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
<b>Standard Outdoor</b>						
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	50.0	43.5	53.1	65.1	71.1	83.6	92.1	100.9	110.9	122.9
Sensible Capacity - kW	29.3	34	38.1	45.0	39.2	47.8	58.8	64	75.3	83.6	91.1	97.1	105.2
SHR-%	90.2	90.2	91.1	90.0	90.1	90.2	90.3	90.0	90.1	90.8	90.2	87.6	85.6
Air Volume -m <sup>3</sup> /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 <sup>1)</sup>	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 <sup>1)</sup>	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 <sup>2)</sup>	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 <sup>2)</sup>	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 <sup>3)</sup>	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	200-230V /60Hz /3Ph	-	-
FLA -A <sup>3)</sup>	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
<b>Standard Outdoor</b>													
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 <sup>3</sup> /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 <sup>1)</sup>	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P
FLA -A <sup>1)</sup>	22.2	22.2	22.2	22.4	38.8	38.8	38.8	38.8	39.2
Power Type <sup>2)</sup>	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 <sup>2)</sup>	18.4	18.4	18.4	18.5	32.0	32.0	32.0	32.0	32.3
Power Type <sup>3)</sup>	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P
FLA -A <sup>3)</sup>	40.2	40.2	40.2	40.6	75.7	75.7	75.7	75.7	76.4
Water Connection -mm	32	32	42	42	42	42	54	54	54
Drain Connection -mm	20	20	20	20	20	20	20	20	20
Water In Connection	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G	3/4"G
Water Flow -l/s	1.4	1.6	2.2	2.6	3.3	3.7	4.1	4.5	5.0
Water PD -kPa	49.6	55.0	63.0	57.3	57.2	73.6	63.2	77.8	85.3

### Notes:

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

# WiseAir™ – Room Cooling CW Type

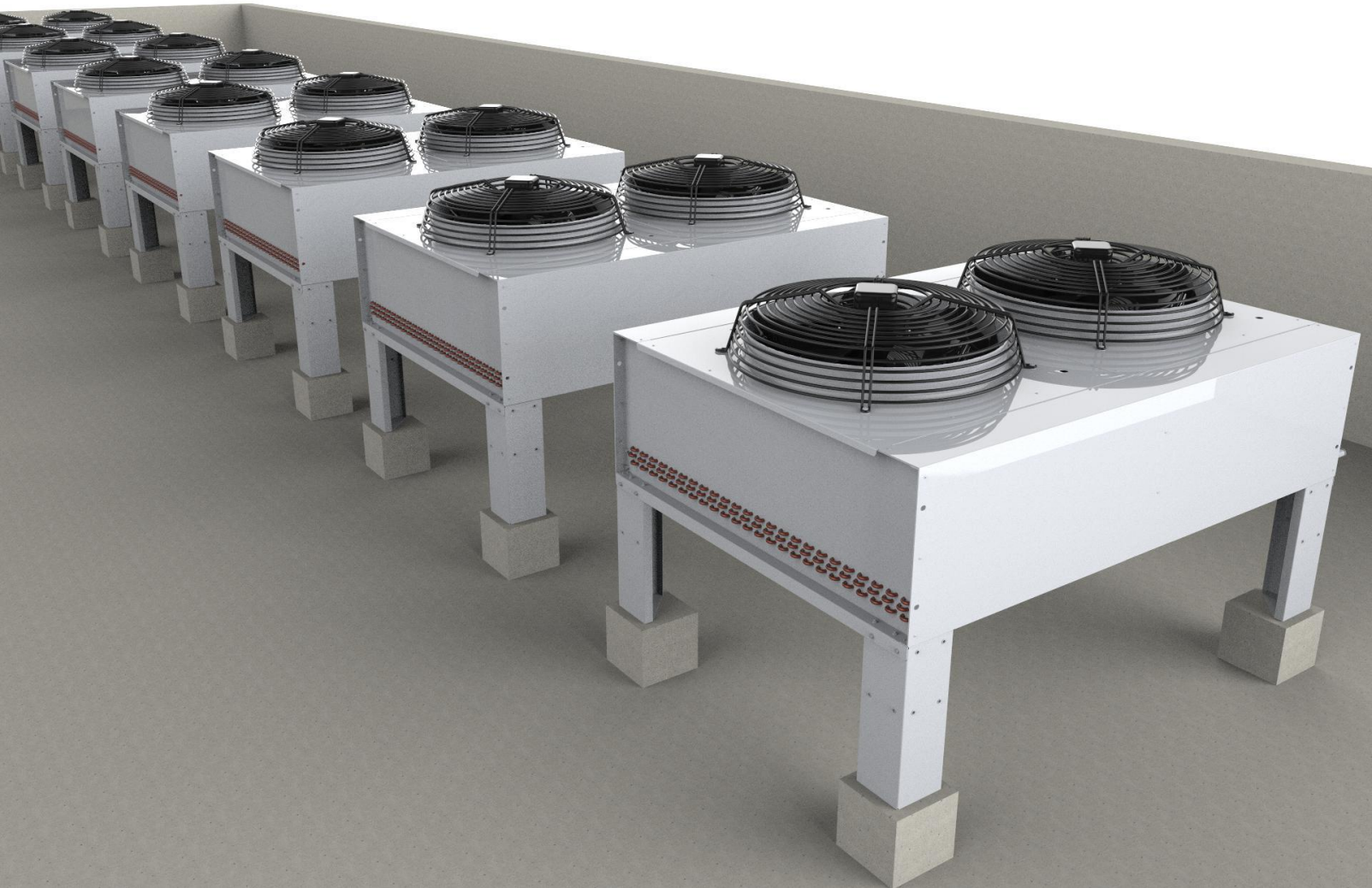
## Technical Data

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 <sup>3</sup> /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 <sup>1)</sup>	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P	380-415V /50-60Hz/3P
FLA -A <sup>1)</sup>	39.2	39.2	39.2	47.3	47.3	47.9	47.9	47.9	47.9
Power Type <sup>2)</sup>	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 <sup>2)</sup>	32.3	32.3	32.3	39.1	39.1	39.6	39.6	39.6	39.6
Power Type <sup>3)</sup>	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P	200-230V /60Hz/3P
FLA -A <sup>3)</sup>	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.

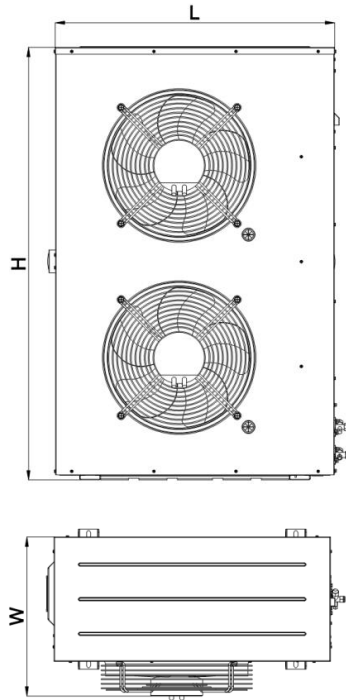
# Air Cooled Condenser



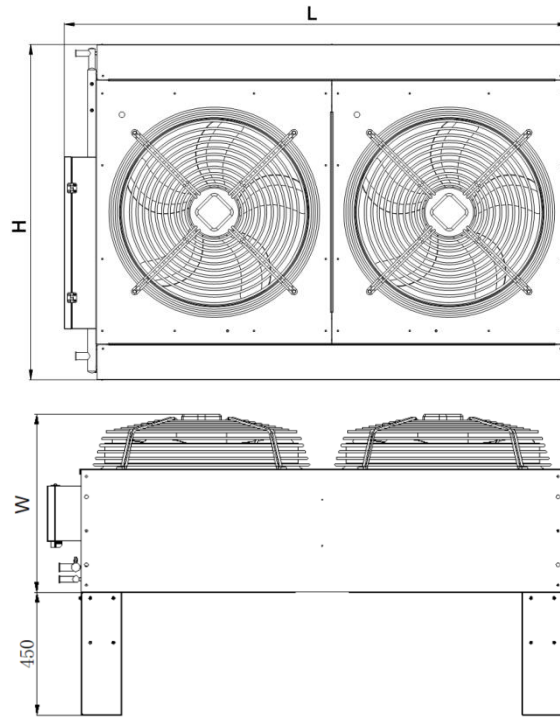
## Key Configurations

- 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 <sup>1)</sup>	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 <sup>1)</sup>	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 <sup>2)</sup>	-	-	-	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 <sup>2)</sup>	-	-	-	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

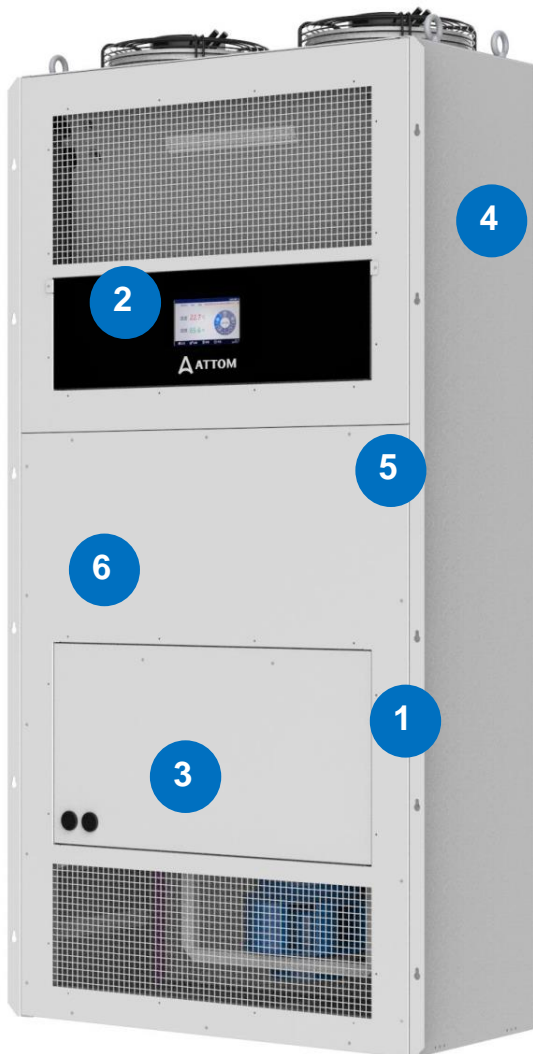
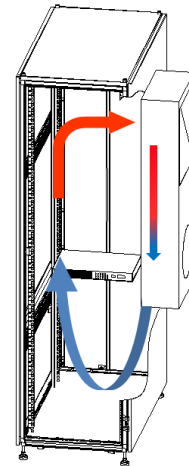
### Notes:

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

# SmoothAir™ – 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-001WAH	S-002WAH	S-005WAH-S/F	S-007WAH-S/F	S-012WAH-S/F	S-017WAH-S/F	S-020WAH-S/F	S-025WAH-S/F	S-030WAH-S/F
Total Cooling-kW	1.5	2.0	5.5	7.5	12.5	17.5	21.2	25.1	31.5
SHR-%	100	100	100	100	100	100	100	100	100
Air Volume-m <sup>3</sup> /h	380	650	1850	2000	2400	3500	4000	5100	6300
Mount Type	Wall	Wall	Wall	Wall	Wall	Wall	Wall	Wall	Wall
Cooling Type	DX	DX	DX	DX	DX	DX	DX	DX	DX
Height-mm	746	746	1920	1920	2100	2100	2100	2100	2100
Depth-mm	200	200	650	650	650	650	650	650	650
Width-mm	446	446	900	900	1000	1000	1000	1350	1350
Weight-kg	34	35	180	230	285	320	355	395	415
Power Input <sup>1)</sup>	208-240V /50Hz 60Hz /1Ph-2Ph	208-240V /50Hz 60Hz /1Ph-2Ph	208-240V /50Hz 60Hz /1Ph-2Ph	208-240V /50Hz 60Hz /1Ph-2Ph	208-240V /50Hz 60Hz /1Ph-2Ph				
FLA-A <sup>1)</sup>	2.9	3.9	16.5	20.1	34.4				
Power Input <sup>2)</sup>					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 <sup>2)</sup>					15.0	18.4	20.8	26.0	30.9
Power Input <sup>3)</sup>	-	-	-	-	460V/60Hz/3Ph	460V/60Hz/3Ph	460V/60Hz/3Ph	460V/60Hz/3Ph	460V/60Hz/3Ph
FLA-A <sup>3)</sup>	-	-	-	-	12.4	15.2	17.2	25.8	26.8

### Notes:

1. Cooling Capacity based on 26°C/40%RH return air and 35°C outdoor air.
2. The frequency 50Hz or 60Hz is configurable upon order.
3. The refrigerant R134a/R407C is used for the ambient temperature up to 55C maximum.
4. Model numbers –S means bottom discharge type airflow direction, and –F means front-up discharge type airflow direction.

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being totally connected.

The connections are  
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and a better future.

We create precision cooling  
products optimized for data  
center applications to build  
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future.

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