

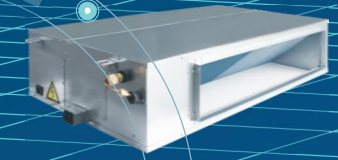
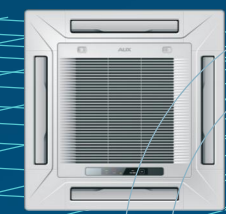


Technology leads Intelligent life

AUX Commercial Air Conditioner (AUX SAC) Light Commercial 50Hz R22 & R410a Version No.: 2014

# AUX

## 50Hz R22&R410a Light Commercial Air Conditioner 2014



### AUX

**Ningbo AUX Imp.&Exp.Co., Ltd.**

NO.1166 North MingGuang Road(AUX-Technology Park),JiangShan  
Town,Ningbo Zhejiang,PR.China  
TEL:86-574-88220564 FAX:86-574-88220720  
Http://www.cnaux.com E-mail:auxsales@mail.auxgroup.com



Большая библиотека технической документации  
<http://splitoff.ru/tehn-doc.html>  
каталоги, инструкции, сервисные мануалы, схемы.



Established in 1986, as one of the top 500 Chinese enterprises, AUX Group is a diversified conglomerate, which covers 6 industries, including Intelligent Power Equipment, Home Appliance, Mobile Intelligent Terminal, Real Estate, Medical Service and Investment.

In 2012, With a total asset of 20 billion RMB, Aux has more than 20000 employees, the turnover of 40.5 billion RMB and the brand value of about 8 billion RMB. AUX owns 7 manufacturing bases, including Ningbo, Nanchang, Tianjin, Shanghai, Shenzhen, Dongguan and Cicheng, as well as a listed company with five high-tech enterprises, acting as a unit of National Enterprise Technology Center and permanent National Post-doctoral Workstation.

AUX has many brands and trademarks such as AUX, Sanxing, BFB, LN etc., among which Sanxing Electric, AUX Air-conditioning, Aux Plaza are nationally renowned brands.

Taking "Create an intelligent life, foster a prominent career environment" as its new mission and adhering to the WIN strategy of "A Steady Development Wins a Harmonious Future", AUX aspires to be a world famous enterprise In the new era. Aiming at a sales income of 80 billion RMB in 2015, AUX is striving to become one of the top 100 Chinese enterprises.



## Corporate values

Accuracy, Efficiency, Simplicity  
To Be Concentrated  
Target Oriented.



## Features



### Anti-Cold-Air(Heat Pump Only)

When starting the heating operation, the fan speed is regulated automatically from the lowest grade to the preset level, according to the temperature rising of evaporator. This function can prevent cold air blowing out at the beginning of the operation, which avoids the discomfort to the user.



### Sleep Mode

Users can select sleep mode after pressing time-off button. This function will adjust temperature automatically, which makes a comfortable sleep environment.



### 24-hour Timer

Users can set on the timer to turn on or off the machine any time in 24 hours, they can also turn on or off the machine by pressing the timing button on wireless remote controller.



### Follow Me

A temperature sensor is built in the remote control. When you stay close to the remote control, the unit will automatically choose the operation mode achieve accurate and comfortable temperature control just like the air conditioner is following you.



### Golden Hydrophilic Aluminum Fin

With the anti-corrosive golden hydrophilic epoxy coating, the fin inoxidability is 10 times better than normal one



### Remote Control

Help users to control the air conditioner easily.



### Wired Controller

Help users to control the air conditioner easily.



### Self-diagnosis Function

Monitoring some abnormal operations or parts failures, which happens microcomputer of the air conditioner will switch off and protect the system automatically. Meanwhile, the error or protection code will be displayed on the indoor unit.



### Auto Restart

If the machine is suddenly shut down during operation, the unit will record the operating mode, and restore to it when the power is on.



### Intelligent Defrosting

Normal defrost function can only be operated in certain time, but AUX commercial air conditioner's intelligent defrost can start automatically according to the surrounding condition.



### Fresh Air Intake

Intake fresh air outside to improve room air quality.



### Low Ambient Cooling

The air conditioner with a special built-in low ambient cooling can be used in temp. As low as -15°C for cooling operation.



### Washable Filter

Durable filter can stand much longer before cleaning.

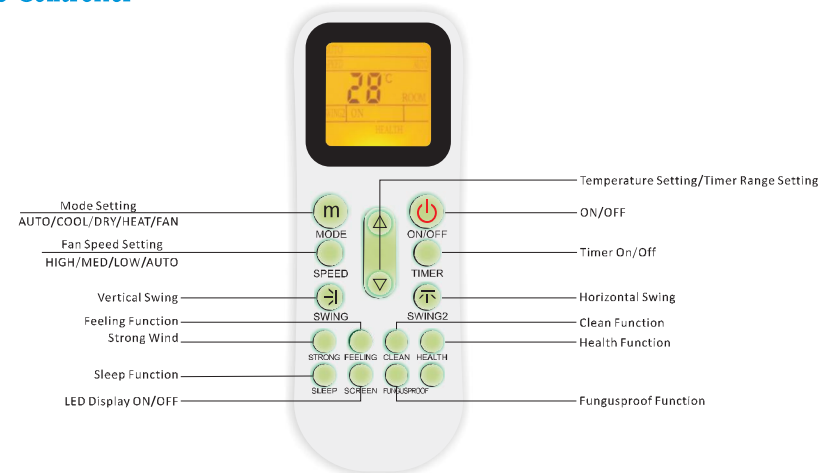


### Central Control

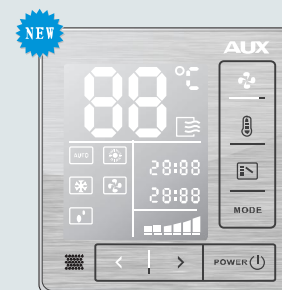
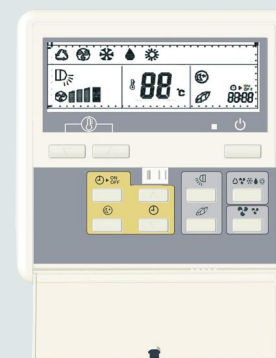
Every touch screen can control 64 units by the RS485 wire connection units, adapter plate and touch screen lighter, which have control function for weekly timer, setting zone or group and so on.

## Controllers

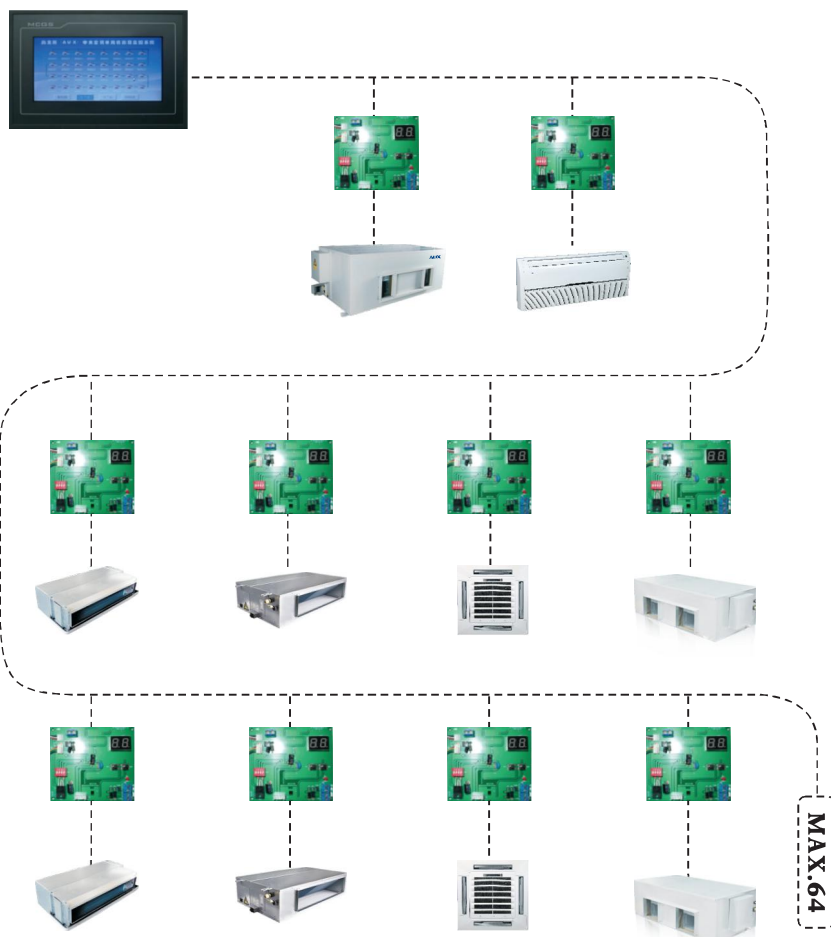
### Remote Controller



### Wired Controller



## Central Control of Light Commercial



## Super Uno

		<b>R22</b>							
Btu/h	Pics	12K	18K	24K	30K	36K	48K	60K	
Four-way Cassette		★	★	★	★	★	★	★	11-13
Ceiling & Floor			★	★	★	★	★	★	15-17
Low ESP Duct		★	★	★					19-20
Mid ESP Duct			★	★	★	★	★	★	21-23
High ESP Duct				★			★	★	25-26

		<b>R410a</b>							
Btu/h	Pics	12K	18K	24K	36K	42K	48K	60K	
Four-way Cassette		★	★	★	★	★	★	★	14
Ceiling & Floor			★	★	★		★	★	18
Low ESP Duct		★							20
Mid ESP Duct			★	★	★	★	★	★	24
High ESP Duct				★			★	★	26

## Commercial High ESP Duct

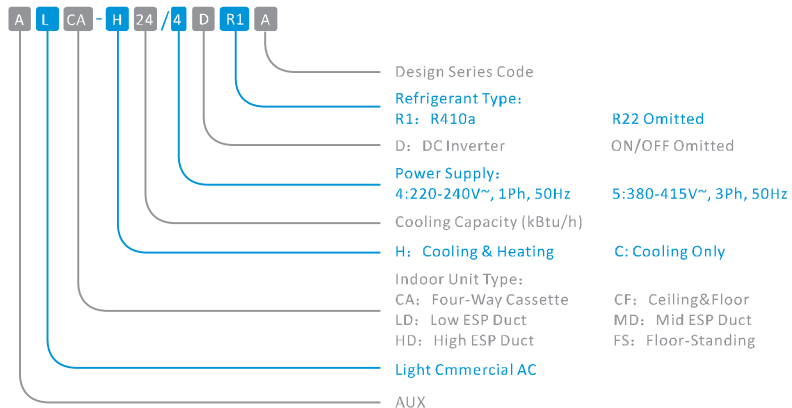
Btu/h	Pics	90K	110K	150K	185K	220K	
High ESP Duct		★	★	★	★	★	27-28

## Commercial Floor Standing

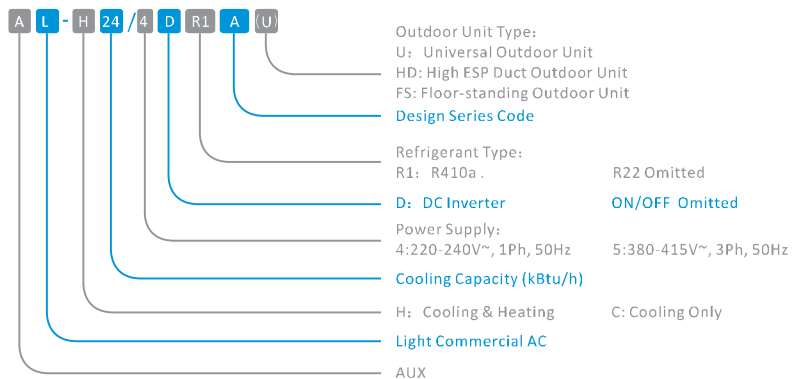
Btu/h	Pics	100K	
Large Floor Standing		★	29-30

# Nomenclature

## Indoor Unit:



## Outdoor Unit:



# Super Uno Universal Outdoor Units



Model	Outdoor		AL-C12/4(U)	AL-H12/4(U)	AL-C18/4(U)	AL-H18/4(U)
Capacity	Cooling	Btu/h	12000	12000	18000	18000
		kW	3.6	3.6	5.1	5.1
	Heating	Btu/h	/	13500	/	19000
		kW	/	3.9	/	5.6
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1
	Air Flow Volume	m <sup>3</sup> /h	1980	1980	2600	2600
Performance	Noise Level	dB(A)	53	53	55	55
	Dimension(WxDxH)	Net	mm	760X260X540	760X260X540	800X300X590
Packing		mm	880X350X610	880X350X610	930X410X660	930X410X660
Weight	Net	kg	37	38	44	45
	Gross	kg	40	41	48	49
Piping	Liquid Side	mm	6.35	6.35	6.35	6.35
	Gas Side	mm	12.7	12.7	12.7	12.7
	Max. Length	m	15	15	20	20
	Max. Height	m	10	10	15	15
Stuffing Quantity	20/40/40H	unit	123/255/340	123/255/340	102/204/272	102/204/272

★ Remark: The above designs and specifications are subject to change of product improvement without prior notice.

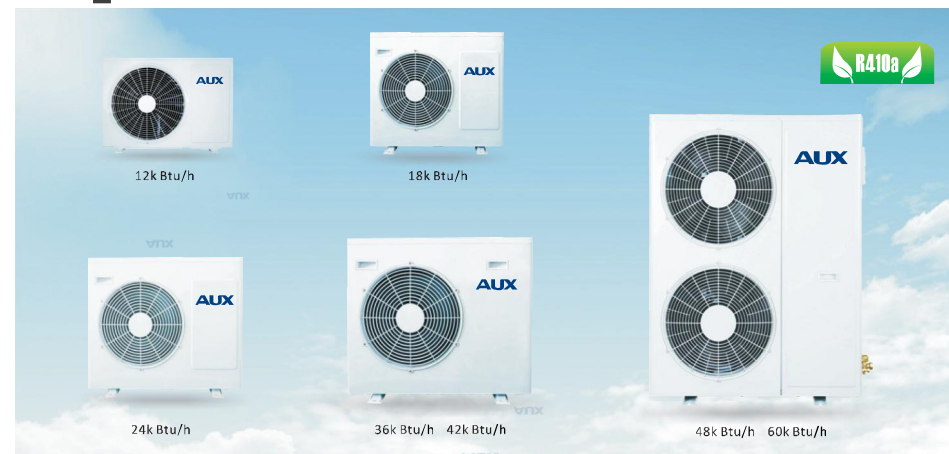
Model	Outdoor		AL-C24/4(U)	AL-H24/4(U)	AL-C30/4(U)	AL-H30/4(U)
Capacity	Cooling	Btu/h	24000	24000	30000	30000
		kW	7.2	7.2	8.5	8.5
	Heating	Btu/h	/	27000	/	31000
		kW	/	7.9	/	9.3
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1
		Air Flow Volume	m³/h	2790	2790	3190
Performance	Noise Level	dB(A)	60	60	60	60
		Net	mm	800X300X690	800X300X690	903X354X857
Dimension(WxDxH)	Packing	mm	930X410X760	930X410X760	1030X410X980	1030X410X980
		Weight	Net	kg	55	56
	Gross	kg	59	60	80	82
		Piping	Liquid Side	mm	9.52	9.52
Gas Side	mm		15.88	15.88	15.88	15.88
	Max. Length	m	30	30	30	30
		Max. Height	m	15	15	15
Stuffing Quantity		unit	20/204/204	20/204/204	60/124/124	60/124/124

Model	Outdoor		AL-C36/4(U)	AL-H36/4(U)	AL-C36/5(U)	AL-H36/5(U)
Capacity	Cooling	Btu/h	36000	36000	36000	36000
		kW	10.0	10.0	10.0	10.0
	Heating	Btu/h	/	37500	/	37500
		kW	/	11.0	/	11.0
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	380~415,50,3	380~415,50,3
		Air Flow Volume	m³/h	3190	3190	3190
Performance	Noise Level	dB(A)	60	60	60	60
		Net	mm	903X354X857	903X354X857	903X354X857
Dimension(WxDxH)	Packing	mm	1030X410X980	1030X410X980	1030X410X980	1030X410X980
		Weight	Net	kg	84	86
	Gross	kg	92	94	92	94
		Piping	Liquid Side	mm	9.52	9.52
Gas Side	mm		15.88	15.88	15.88	15.88
	Max. Length	m	50	50	50	50
		Max. Height	m	30	30	30
Stuffing Quantity		unit	60/124/124	60/124/124	60/124/124	60/124/124

Model	Outdoor		AL-C48/5(U)	AL-H48/5(U)	AL-C60/5(U)	AL-H60/5(U)
Capacity	Cooling	Btu/h	48000	48000	60000	60000
		kW	14.0	14.0	17.0	17.0
	Heating	Btu/h	/	51000	/	63000
		kW	/	15.0	/	17.5
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3	380~415,50,3	380~415,50,3	380~415,50,3
		Air Flow Volume	m³/h	5200	5200	5200
Performance	Noise Level	dB(A)	62	62	62	62
		Net	mm	945X340X1255	945X340X1255	945X340X1255
Dimension(WxDxH)	Packing	mm	1090X430X1370	1090X430X1370	1090X430X1370	1090X430X1370
		Weight	Net	kg	89	97
	Gross	kg	102	110	112	119
		Piping	Liquid Side	mm	9.52	9.52
Gas Side	mm		19.05	19.05	19.05	19.05
	Max. Length	m	50	50	50	50
		Max. Height	m	30	30	30
Stuffing Quantity		unit	26/54/54	26/54/54	26/54/54	26/54/54

★ Remark:The above designs and specifications are subject to change of product improvement without prior notice.

# Super Uno Universal Outdoor Units



Model	Outdoor		AL-C12/4R1(U)	AL-H12/4R1(U)	AL-C18/4R1(U)	AL-H18/4R1(U)	AL-C24/4R1(U)	AL-H24/4R1(U)	AL-C36/5R1(U)
Capacity	Cooling	Btu/h	12000	12000	18000	18000	24000	24000	36000
		kW	3.6	3.6	5.3	5.3	7.2	7.2	10.6
	Heating	Btu/h	/	13500	/	20000	/	27500	/
		kW	/	3.9	/	5.8	/	8.1	/
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1	380~415,50,3
		Air Flow Volume	m³/h	1980	1980	2600	2600	2790	2790
Performance	Noise Level	dB(A)	53	53	55	55	60	60	60
		Net	mm	760X260X540	760X260X540	800X300X590	800X300X590	903X300X690	903X300X690
Dimension(WxDxH)	Packing	mm	880X350X610	880X350X610	930X410X660	930X410X660	930X410X760	930X410X760	1030X410X980
		Weight	Net	kg	31	32	35	36	48
	Gross	kg	34	35	39	40	52	53	96
		Piping	Liquid Side	mm	6.35	6.35	6.35	6.35	9.52
Gas Side	mm		12.7	12.7	12.7	12.7	15.88	15.88	15.88
	Max. Length	m	15	15	20	20	30	30	50
		Max. Height	m	10	10	15	15	15	15
Stuffing Quantity		unit	123/255/340	123/255/340	102/204/272	102/204/272	102/204/204	102/204/204	60/124/124

Model	Outdoor		AL-H36/5R1(U)	AL-C42/5R1(U)	AL-H42/5R1(U)	AL-C48/5R1(U)	AL-H48/5R1(U)	AL-C60/5R1(U)	AL-H60/5R1(U)
Capacity	Cooling	Btu/h	36000	42000	42000	48000	48000	60000	60000
		kW	10.6	12.0	12.0	14.0	14.0	17.6	17.6
	Heating	Btu/h	40000	/	48000	/	53000	/	63500
		kW	11.7	/	14.0	/	15.5	/	18.5
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3	380~415,50,3	380~415,50,3	380~415,50,3	380~415,50,3	380~415,50,3	380~415,50,3
		Air Flow Volume	m³/h	3190	3190	3190	5200	5200	5200
Performance	Noise Level	dB(A)	60	62	62	62	62	62	62
		Net	mm	903X354X857	903X354X857	903X354X857	945X340X1255	945X340X1255	945X340X1255
Dimension(WxDxH)	Packing	mm	1030X410X980	1030X410X980	1030X410X980	1090X430X1370	1090X430X1370	1090X430X1370	1090X430X1370
		Weight	Net	kg	90	90	92	100	94
	Gross	kg	98	98	100	106	114	108	115
		Piping	Liquid Side	mm	9.52	9.52	9.52	9.52	9.52
Gas Side	mm		15.88	19.05	19.05	19.05	19.05	19.05	
	Max. Length	m	50	50	50	50	50	50	
		Max. Height	m	30	30	30	30	30	30
Stuffing Quantity		unit	60/124/124	60/124/124	60/124/124	26/54/54	26/54/54	26/54/54	

★ Remark:The above designs and specifications are subject to change of product improvement without prior notice.

# Super Uno Four-way Cassette



## 1.High efficient energy saving

- ★ Excellent system design, selection of the core components, the perfect combination of technology and technological innovation. Innovative 3D spiral wind leaf, reduced
- ★ the air power's consumption and noise, making the supply air more quiet and smoothly



3D spiral wind leaf

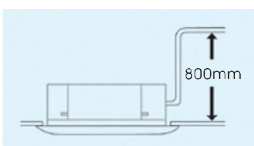
## 2.6-segment heating exchanger design

- ★ Compact structure.
- ★ Innovative exchanger design enlarges the heat exchanging area.
- ★ Heat exchanging efficiency increased by 10% to 15%.



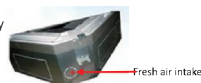
## 3.Built-in water drainage pump

- ★ The built-in pump can lift condensing water up to 800mm high from the drainage pan.



## 4.Fresh air intake

- ★ Fresh air makes indoor air quality healthy and comfortable.



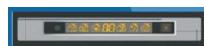
## 5.Duct connection

- ★ Air duct can be connected from the 4 sides to nearby rooms.



## 6.Digital tube display

- ★ Digital tube displays all contents :indoor temperature, set temperature, the mode of operation,etc.
- ★ Clearly to check the running status more convenient for troubleshooting. Four step motors Each guide the wind blade is controlled by an independent of step motor driver, which made guide blades swing flexible.



## 7.Decoration panel

- ★ Decoration panel has been treated with dirt-repellant coating.

## R22

Model	Indoor		ALCA-C12/4	ALCA-H12/4	ALCA-C18/4	ALCA-H18/4
	Outdoor		AL-C12/4(U)	AL-H12/4(U)	AL-C18/4(U)	AL-H18/4(U)
Capacity	Cooling	Btu/h	12000	12000	18000	18000
		kW	3.6	3.6	5.1	5.1
	Heating	Btu/h	/	13500	/	19000
		kW	/	3.9	/	5.6
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1
	Cooling Power Input	kW	1.17	1.17	1.69	1.69
	Heating Power Input	kW	/	1.13	/	1.75
	Cooling Current	A	5.39	5.39	7.79	7.79
	Heating Current	A	/	5.29	/	8.11
	EER		3.08	3.08	3.02	3.02
Performance	COP		/	3.46	/	3.20
	Air Flow Volume(Hi/Mid/Low)	m³/h	620/496/434	620/496/434	850/680/595	850/680/595
	Noise Level(Hi/Mid/Low)	dB(A)	41/38/32	41/38/32	41/38/32	41/38/32
	Net(Body)	mm	615X615X263	615X615X263	615X615X263	615X615X263
Dimension(WxDxH)	Packing(Body)	mm	700X700X330	700X700X330	700X700X330	700X700X330
	Net(Panel)	mm	650X650X55	650X650X55	650X650X55	650X650X55
	Packing(Panel)	mm	710X710X80	710X710X80	710X710X80	710X710X80
	Net(Body)	kg	17.5	17.5	18	18
	Gross(Body)	kg	21.5	21.5	22	22
	Net(Panel)	kg	3	3	3	3
Weight	Gross(Panel)	kg	5	5	5	5
	Liquid Side	mm	6.35	6.35	6.35	6.35
	Gas Side	mm	12.7	12.7	12.7	12.7
Piping	Drainage	mm	R3/4in(DN20)	R3/4in(N20)	R3/4in(DN20)	R3/4in(DN20)
Applicable Area		m²	17-21	17-21	21-35	21-35
Stuffing Quantity	20/40/40H	set	72/146/162	72/146/162	57/120/144	57/120/144

Model	Indoor		ALCA-C24/4	ALCA-H24/4	ALCA-C30/4	ALCA-H30/4
	Outdoor		AL-C24/4(U)	AL-H24/4(U)	AL-C30/4(U)	AL-H30/4(U)
Capacity	Cooling	Btu/h	24000	24000	30000	30000
		kW	7.2	7.2	8.5	8.5
	Heating	Btu/h	/	27000	/	31000
		kW	/	7.9	/	9.3
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1
	Cooling Power Input	kW	2.46	2.46	2.75	2.75
	Heating Power Input	kW	/	2.29	/	2.80
	Cooling Current	A	11.59	11.59	12.70	12.70
	Heating Current	A	/	10.99	/	12.80
	EER		2.93	2.93	3.09	3.09
Performance	COP		/	3.45	/	3.32
	Air Flow Volume(Hi/Mid/Low)	m³/h	1100/880/770	1100/880/770	1500/1200/1050	1500/1200/1050
	Noise Level(Hi/Mid/Low)	dB(A)	45/42/36	45/42/36	48/45/39	48/45/39
	Net(Body)	mm	835X835X240	835X835X240	835X835X240	835X835X240
Dimension(WxDxH)	Packing(Body)	mm	910X910X320	910X910X320	910X910X320	910X910X320
	Net(Panel)	mm	950X950X55	950X950X55	950X950X55	950X950X55
	Packing(Panel)	mm	1000X1000X100	1000X1000X100	1000X1000X100	1000X1000X100
	Net(Body)	kg	24	24	24	24
Weight	Gross(Body)	kg	27.5	27.5	27.5	27.5
	Net(Panel)	kg	5	5	5	5
	Gross(Panel)	kg	7	7	7	7
	Liquid Side	mm	9.52	9.52	9.52	9.52
Piping	Gas Side	mm	15.88	15.88	15.88	15.88
	Drainage	mm	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)
	Applicable Area		m²	28-47	28-47	32-60
Stuffing Quantity	20/40/40H	set	39/76/96	39/76/96	30/70/76	30/70/76

★ Remark:The above designs and specifications are subject to change of product improvement without prior notice.

R22

Model	Indoor		ALCA-C36/4	ALCA-H36/4	ALCA-C36/5	ALCA-H36/5
	Outdoor		AL-C36/4(U)	AL-H36/4(U)	AL-C36/5(U)	AL-H36/5(U)
Capacity	Cooling	Btu/h	36000	36000	36000	36000
		kW	10.0	10.0	10.0	10.0
	Heating	Btu/h	/	37500	/	37500
		kW	/	11.0	/	11.0
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	380~415,50,3	380~415,50,3
	Cooling Power Input	kW	3.45	3.45	3.47	3.47
	Heating Power Input	kW	/	3.51	/	3.40
	Cooling Current	A	15.93	15.93	6.22	6.22
	Heating Current	A	/	16.11	/	6.10
	EER		2.90	2.90	2.88	2.88
Performance	COP		/	3.13	/	3.24
	Air Flow Volume(Hi/Mid/Low)	m³/h	1500/1200/1050	1500/1200/1050	1500/1200/1050	1500/1200/1050
	Noise Level(Hi/Mid/Low)	dB(A)	48/45/39	48/45/39	48/45/39	48/45/39
	Net(Body)	mm	835X835X240	835X835X240	835X835X240	835X835X240
Dimension(WxDxH)	Packing(Body)	mm	910X910X320	910X910X320	910X910X320	910X910X320
	Net(Panel)	mm	950X950X55	950X950X55	950X950X55	950X950X55
	Packing(Panel)	mm	1000X1000X100	1000X1000X100	1000X1000X100	1000X1000X100
	Net(Body)	kg	24	24	24	24
	Gross(Body)	kg	27.5	27.5	27.5	27.5
	Net(Panel)	kg	5	5	5	5
Weight	Gross(Panel)	kg	7	7	7	7
	Liquid Side	mm	9.52	9.52	9.52	9.52
	Gas Side	mm	15.88	15.88	15.88	15.88
Piping	Drainage	mm	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)
	Applicable Area	m²	42-70	42-70	42-70	42-70
Stuffing Quantity		20/40/40H	set	30/70/76	30/70/76	30/70/76

Model	Indoor		ALCA-C48/5	ALCA-H48/5	ALCA-C60/5	ALCA-H60/5
	Outdoor		AL-C48/5(U)	AL-H48/5(U)	AL-C60/5(U)	AL-H60/5(U)
Capacity	Cooling	Btu/h	48000	48000	60000	60000
		kW	14.0	14.0	17.0	17.0
	Heating	Btu/h	/	51000	/	63000
		kW	/	15.0	/	17.5
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3	380~415,50,3	380~415,50,3	380~415,50,3
	Cooling Power Input	kW	4.49	4.49	5.78	5.78
	Heating Power Input	kW	/	4.52	/	5.50
	Cooling Current	A	8.19	8.19	10.54	10.54
	Heating Current	A	/	8.21	/	10.00
	EER		3.12	3.12	2.94	2.94
Performance	COP		/	3.32	/	3.18
	Air Flow Volume(Hi/Mid/Low)	m³/h	1800/1440/1260	1800/1440/1260	1800/1440/1260	1800/1440/1260
	Noise Level(Hi/Mid/Low)	dB(A)	50/47/41	50/47/41	50/47/41	50/47/41
	Net(Body)	mm	835X835X280	835X835X280	835X835X280	835X835X280
Dimension(WxDxH)	Packing(Body)	mm	910X910X360	910X910X360	910X910X360	910X910X360
	Net(Panel)	mm	950X950X55	950X950X55	950X950X55	950X950X55
	Packing(Panel)	mm	1000X1000X100	1000X1000X100	1000X1000X100	1000X1000X100
	Net(Body)	kg	26.5	26.5	26.5	26.5
	Gross(Body)	kg	30.5	30.5	30.5	30.5
	Net(Panel)	kg	5	5	5	5
Weight	Gross(Panel)	kg	7	7	7	7
	Liquid Side	mm	9.52	9.52	9.52	9.52
	Gas Side	mm	19.05	19.05	19.05	19.05
Piping	Drainage	mm	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)
	Applicable Area	m²	56-93	56-93	64-107	64-107
Stuffing Quantity		20/40/40H	set	26/54/54	26/54/54	26/54/54

★ Remark: The above designs and specifications are subject to change of product improvement without prior notice.

R410a

Model	Indoor		ALCA-C12/4R1	ALCA-H12/4R1	ALCA-C18/4R1	ALCA-H18/4R1	ALCA-C24/4R1	ALCA-H24/4R1	ALCA-C36/5R1
	Outdoor		AL-C12/4R1(U)	AL-H12/4R1(U)	AL-C18/4R1(U)	AL-H18/4R1(U)	AL-C24/4R1(U)	AL-H24/4R1(U)	AL-C36/5R1(U)
Capacity	Cooling	Btu/h	12000	12000	18000	18000	24000	24000	36000
		kW	3.6	3.6	5.3	5.3	7.2	7.2	10.6
	Heating	Btu/h	/	13500	/	20000	/	27500	/
		kW	/	3.9	/	5.8	/	8.1	/
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1	380~415,50,3
	Cooling Power Input	kW	1.19	1.19	1.76	1.76	2.39	2.39	3.77
	Heating Power Input	kW	/	1.20	/	1.80	/	2.50	/
	Cooling Current	A	5.49	5.49	8.08	8.08	11.06	11.06	6.76
	Heating Current	A	/	5.63	/	8.27	/	11.59	/
	EER		3.03	3.03	3.01	3.01	3.01	3.01	2.81
Performance	COP		/	3.25	/	3.22	/	3.24	/
	Air Flow Volume(Hi/Mid/Low)	m³/h	620/496/434	620/496/434	900/720/630	900/720/630	1300/1040/910	1300/1040/910	1500/1200/1050
	Noise Level(Hi/Mid/Low)	dB(A)	41/38/32	41/38/32	41/38/32	41/38/32	45/42/36	45/42/36	48/45/39
	Net(Body)	mm	615X615X263	615X615X263	615X615X263	615X615X263	835X835X240	835X835X240	835X835X240
Dimension(WxDxH)	Packing(Body)	mm	700X700X330	700X700X330	700X700X330	700X700X330	910X910X320	910X910X320	910X910X320
	Net(Panel)	mm	650X650X55	650X650X55	650X650X55	650X650X55	950X950X55	950X950X55	950X950X55
	Packing(Panel)	mm	710X710X80	710X710X80	710X710X80	710X710X80	1000X1000X100	1000X1000X100	1000X1000X100
	Net(Body)	kg	17.5	17.5	18	18	24	24	24
	Gross(Body)	kg	21.5	21.5	22	22	27.5	27.5	27.5
	Net(Panel)	kg	3	3	3	3	5	5	5
Weight	Gross(Panel)	kg	5	5	5	5	7	7	7
	Liquid Side	mm	6.35	6.35	6.35	6.35	9.52	9.52	9.52
	Gas Side	mm	12.7	12.7	12.7	12.7	15.88	15.88	15.88
Piping	Drainage	mm	R3/4in(N20)	R3/4in(N20)	R3/4in(N20)	R3/4in(N20)	R3/4in(N20)	R3/4in(N20)	R3/4in(N20)
	Applicable Area	m²	13-21	13-21	21-35	21-35	28-47	28-47	42-70
Stuffing Quantity		20/40/40H	set	72/146/162	72/146/162	57/120/144	57/120/144	39/76/96	39/76/96

Model	Indoor		ALCA-H36/5R1	ALCA-C42/5R1	ALCA-H42/5R1	ALCA-C48/5R1	ALCA-H48/5R1	ALCA-C60/5R1	ALCA-H60/5R1
	Outdoor		AL-H36/5R1(U)	AL-C42/5R1(U)	AL-H42/5R1(U)	AL-C48/5R1(U)	AL-H48/5R1(U)	AL-C60/5R1(U)	AL-H60/5R1(U)
Capacity	Cooling	Btu/h	36000	42000	42000	48000	48000	60000	60000
		kW	10.6	12.0	12.0	14.0	14.0	17.6	17.6
	Heating	Btu/h	40000	/	48000	/	53000	/	63500
		kW	11.7	/	14.0	/	15.5	/	18.5
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3	380~415,50,3	380~415,50,3	380~415,50,3	380~415,50,3	380~415,50,3	380~415,50,3
	Cooling Power Input	kW	3.77	4.17	4.17	4.87	4.87	5.71	5.71
	Heating Power Input	kW	3.50	/	4.63	/	5.13	/	6.00
	Cooling Current	A	6.76	7.63	7.63	8.88	8.88	10.42	10.42
	Heating Current	A	6.28	/	8.43	/	9.33	/	10.88
	EER		2.81	2.88	2.88	2.87	2.87	3.08	3.08
Performance	COP		3.34	/	3.02	/	3.02	/	3.08
	Air Flow Volume(Hi/Mid/Low)	m³/h	1500/1200/1050	1800/1440/1260	1800/1440/1260	1800/1440/1260	1800/1440/1260	1800/1440/1260	1800/1440/1260
	Noise Level(Hi/Mid/Low)	dB(A)	48/45/39	50/47/41	50/47/41	50/47/41	50/47/41	50/47/41	50/47/41
	Net(Body)	mm	835X835X240	835X835X280	835X835X280	835X835X280	835X835X280	835X835X280	835X835X280
Dimension(WxDxH)	Packing(Body)	mm	910X910X320	910X910X360	910X910X360	910X910X360	910X910X360	910X910X360	910X910X360
	Net(Panel)	mm	950X950X55	950X950X55	950X950X55	950X950X55	950X950X55	950X950X55	950X950X55
	Packing(Panel)	mm	1000X1000X100	1000X1000X100	1000X1000X100	1000X1000X100	1000X1000X100	1000X1000X100	1000X1000X100
	Net(Body)	kg	24	26.5	26.5	26.5	26.5	26.5	26.5
	Gross(Body)	kg	27.5	30.5	30.5	30.5	30.5	30.5	30.5
	Net(Panel)	kg	5	5	5	5	5	5	5
Weight	Gross(Panel)	kg	7	7	7	7	7	7	7
	Liquid Side	mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52
	Gas Side	mm	15.88	19.05	19.05	19.05	19.05	19.05	19.05
Piping	Drainage	mm	R3/4in(N20)	R3/4in(N20)	R3/4in(N20)	R3/4in(N20)	R3/4in(N20)	R3/4in(N20)	R3/4in(N20)
	Applicable Area	m²	42-70	50-82	50-82	56-93	56-93	64-107	64-107
Stuffing Quantity		20/40/40H	set	30/70/76	30/67/75	30/67/75	26/54/54	26/54/54	26/54/54

★ Remark: The above designs and specifications are subject to change of product improvement without prior notice.



# Super Uno Ceiling & Floor



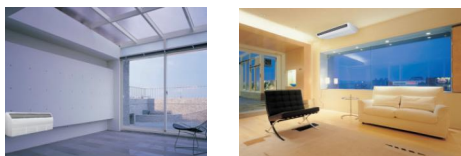
## 1. Dual-direction swing, wide swing angle

- ★ Vertical and horizontal swing function make it possible to blow air to every corner of the room.



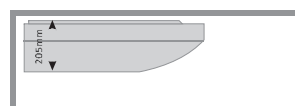
## 3. Flexible installation

- ★ Can be vertically installed against the wall or horizontally installed under the ceiling.



## 2. Ultra slim design

- ★ Thinner. Lighter.



## 4. Adjustable fan speed, Innovative centrifugal fan

- ★ All units are equipped with 3 speed controlled fan mode, adjust the air flow rate in accordance with the ceiling height.
- ★ Innovative centrifugal fan, have larger air volume and lower noise, making the supply air more quiet and smoothly.



Model	Indoor	Outdoor	ALCF-C18/4	ALCF-H18/4	ALCF-C24/4	ALCF-H24/4
			AL-C18/4(U)	AL-H18/4(U)	AL-C24/4(U)	AL-H24/4(U)
Capacity	Cooling	Btu/h	18000	18000	24000	24000
		kW	5.1	5.1	7.2	7.2
	Heating	Btu/h	/	19000	/	27000
		kW	/	5.6	/	7.9
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1
	Cooling Power Input	kW	1.69	1.69	2.42	2.42
	Heating Power Input	kW	/	1.68	/	2.26
	Cooling Current	A	7.76	7.76	11.41	11.41
	Heating Current	A	/	7.79	/	10.83
Performance	EER		3.02	3.02	2.98	2.98
	COP		/	3.33	/	3.50
	Air Flow Volume(Hi/Mid/Low)	m <sup>3</sup> /h	850/680/595	850/680/595	1200/960/840	1200/960/840
	Noise Level(Hi/Mid/Low)	dB(A)	43/40/34	43/40/34	46/43/38	46/43/38
Dimension(WxDxH)	Net	mm	929X660X205	929X660X205	1280X660X205	1280X660X205
	Packing	mm	1010X720X290	1010X720X290	1360X720X290	1360X720X290
Weight	Net	kg	25	25	32	32
	Gross	kg	28	28	37	37
Piping	Liquid Side	mm	6.35	6.35	9.52	9.52
	Gas Side	mm	12.7	12.7	15.88	15.88
	Drainage	mm	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)
Applicable Area		m <sup>2</sup>	21-35	21-35	28-47	28-47
Stuffing Quantity		set	54/115/142	54/115/142	50/100/124	50/100/124

Model	Indoor	Outdoor	ALCF-C30/4	ALCF-H30/4	ALCF-C36/4	ALCF-H36/4
			AL-C30/4(U)	AL-H30/4(U)	AL-C36/4(U)	AL-H36/4(U)
Capacity	Cooling	Btu/h	30000	30000	36000	36000
		kW	8.5	8.5	10.0	10.0
	Heating	Btu/h	/	31000	/	37500
		kW	/	9.3	/	11.0
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1
	Cooling Power Input	kW	2.82	2.82	3.41	3.41
	Heating Power Input	kW	/	2.70	/	3.58
	Cooling Current	A	13.03	13.03	15.78	15.78
	Heating Current	A	/	12.35	/	16.70
Performance	EER		3.01	3.01	2.93	2.93
	COP		/	3.44	/	3.07
	Air Flow Volume(Hi/Mid/Low)	m <sup>3</sup> /h	1500/1200/1050	1500/1200/1050	1500/1200/1050	1500/1200/1050
Dimension(WxDxH)	Net	mm	1280X660X205	1280X660X205	1280X660X205	1280X660X205
	Packing	mm	1360X720X290	1360X720X290	1360X720X290	1360X720X290
Weight	Net	kg	33	33	33	33
	Gross	kg	38	38	38	38
Piping	Liquid Side	mm	9.52	9.52	9.52	9.52
	Gas Side	mm	15.88	15.88	15.88	15.88
	Drainage	mm	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)
Applicable Area		m <sup>2</sup>	32-60	32-60	42-70	42-70
Stuffing Quantity		set	36/71/88	36/71/88	36/71/88	36/71/88

★ Remark: The above designs and specifications are subject to change of product improvement without prior notice.

**R22**

Model	Indoor		ALCF-C36/5	ALCF-H36/5	ALCF-C48/5
	Outdoor		AL-C36/5(U)	AL-H36/5(U)	AL-C48/5(U)
Capacity	Cooling	Btu/h	36000	36000	48000
		kW	10.0	10.0	14.0
	Heating	Btu/h	/	37500	/
		kW	/	11.0	/
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3	380~415,50,3	380~415,50,3
	Cooling Power Input	kW	3.47	3.47	4.52
	Heating Power Input	kW	/	3.33	/
	Cooling Current	A	6.22	6.22	8.24
	Heating Current	A	/	5.98	/
Performance	EER		2.88	2.88	3.10
	COP		/	3.30	/
	Air Flow Volume(Hi/Mid/Low)	m³/h	1500/1200/1050	1500/1200/1050	1800/1440/1260
	Noise Level(Hi/Mid/Low)	dB(A)	50/47/41	50/47/41	51/48/42
Dimension(WxDxH)	Net	mm	1280X660X205	1280X660X205	1631X660X205
	Packing	mm	1360X720X290	1360X720X290	1710X720X290
	Net	kg	33	33	44
Weight	Gross	kg	38	38	50
	Liquid Side	mm	9.52	9.52	9.52
Piping	Gas Side	mm	15.88	15.88	19.05
	Drainage	mm	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)
Applicable Area		m²	42-70	42-70	56-93
Stuffing Quantity	20/40/40H	set	36/71/88	36/71/88	25/54/54

Model	Indoor		ALCF-H48/5	ALCF-C60/5	ALCF-H60/5
	Outdoor		AL-H48/5(U)	AL-C60/5(U)	AL-H60/5(U)
Capacity	Cooling	Btu/h	48000	60000	60000
		kW	14.0	17.0	17.0
	Heating	Btu/h	51000	/	63000
		kW	15.0	/	17.5
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3	380~415,50,3	380~415,50,3
	Cooling Power Input	kW	4.52	5.69	5.69
	Heating Power Input	kW	4.45	/	5.41
	Cooling Current	A	8.24	10.39	10.39
	Heating Current	A	8.08	/	9.42
Performance	EER		3.10	2.99	2.99
	COP		3.37	/	3.23
	Air Flow Volume(Hi/Mid/Low)	m³/h	1800/1440/1260	1800/1440/1260	1800/1440/1260
	Noise Level(Hi/Mid/Low)	dB(A)	51/48/42	51/48/42	51/48/42
Dimension(WxDxH)	Net	mm	1631X660X205	1631X660X205	1631X660X205
	Packing	mm	1710X720X290	1710X720X290	1710X720X290
	Net	kg	44	44	44
Weight	Gross	kg	50	50	50
	Liquid Side	mm	9.52	9.52	9.52
Piping	Gas Side	mm	19.05	19.05	19.05
	Drainage	mm	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)
Applicable Area		m²	56-93	64-107	64-107
Stuffing Quantity	20/40/40H	set	25/54/54	25/54/54	25/54/54

★ Remark:The above designs and specifications are subject to change of product improvement without prior notice.

**R410a**

Model	Indoor		ALCF-C18/4R1	ALCF-H18/4R1	ALCF-C24/4R1	ALCF-H24/4R1	ALCF-C36/5R1
	Outdoor		AL-C18/4R1(U)	AL-H18/4R1(U)	AL-C24/4R1(U)	AL-H24/4R1(U)	AL-C36/5R1(U)
Capacity	Cooling	Btu/h	18000	18000	24000	24000	36000
		kW	5.3	5.3	7.2	7.2	10.6
	Heating	Btu/h	/	20000	/	27500	/
		kW	/	5.8	/	8.1	/
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1	380~415,50,3
	Cooling Power Input	kW	1.72	1.72	2.18	2.18	3.77
	Heating Power Input	kW	/	1.77	/	2.50	/
	Cooling Current	A	7.90	7.90	10.09	10.09	6.76
	Heating Current	A	/	8.13	/	11.59	/
Performance	EER		3.08	3.08	3.31	3.31	2.81
	COP		/	3.28	/	3.24	/
	Air Flow Volume(Hi/Mid/Low)	m³/h	850/680/595	850/680/595	1200/960/840	1200/960/840	1500/1200/1050
	Noise Level(Hi/Mid/Low)	dB(A)	43/40/34	43/40/34	46/43/38	46/43/38	50/47/41
Dimension(WxDxH)	Net	mm	929X660X205	929X660X205	1280X660X205	1280X660X205	1280X660X205
	Packing	mm	1010X720X290	1010X720X290	1360X720X290	1360X720X290	1360X720X290
	Net	kg	25	25	32	32	33
Weight	Gross	kg	28	28	37	37	38
	Liquid Side	mm	6.35	6.35	9.52	9.52	9.52
Piping	Gas Side	mm	12.7	12.7	15.88	15.88	15.88
	Drainage	mm	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)
Applicable Area		m²	21-35	21-35	28-47	28-47	42-70
Stuffing Quantity	20/40/40H	set	54/115/142	54/115/142	50/100/124	50/100/124	36/71/88

Model	Indoor		ALCF-H36/5R1	ALCF-C48/5R1	ALCF-H48/5R1	ALCF-C60/5R1	ALCF-H60/5R1
	Outdoor		AL-H36/5R1(U)	AL-C48/5R1(U)	AL-H48/5R1(U)	AL-C60/5R1(U)	AL-H60/5R1(U)
Capacity	Cooling	Btu/h	36000	48000	48000	60000	60000
		kW	10.6	14.0	14.0	17.6	17.6
	Heating	Btu/h	40000	/	53000	/	63500
		kW	11.7	/	15.5	/	18.5
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3	380~415,50,3	380~415,50,3	380~415,50,3	380~415,50,3
	Cooling Power Input	kW	3.77	4.87	4.87	5.71	5.71
	Heating Power Input	kW	3.50	/	5.13	/	5.97
	Cooling Current	A	6.76	8.88	8.88	10.42	10.42
	Heating Current	A	6.28	/	9.33	/	10.83
Performance	EER		2.81	2.87	2.87	3.08	3.08
	COP		3.34	/	3.02	/	3.10
	Air Flow Volume(Hi/Mid/Low)	m³/h	1500/1200/1050	1800/1440/1260	1800/1440/1260	1800/1440/1260	1800/1440/1260
	Noise Level(Hi/Mid/Low)	dB(A)	50/47/41	51/48/42	51/48/42	51/48/42	51/48/42
Dimension(WxDxH)	Net	mm	1280X660X205	1631X660X205	1631X660X205	1631X660X205	1631X660X205
	Packing	mm	1360X720X290	1710X720X290	1710X720X280	1710X720X290	1710X720X290
	Net	kg	33	44	44	44	44
Weight	Gross	kg	38	50	50	50	50
	Liquid Side	mm	9.52	9.52	9.52	9.52	9.52
Piping	Gas Side	mm	15.88	19.05	19.05	19.05	19.05
	Drainage	mm	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)
Applicable Area		m²	42-70	56-93	56-93	64-107	64-107
Stuffing Quantity	20/40/40H	set	36/71/88	25/54/54	25/54/54	25/54/54	25/54/54

★ Remark:The above designs and specifications are subject to change of product improvement without prior notice.

# Super Uno Low ESP Duct



## R22

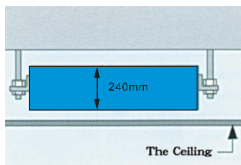
Model	Indoor		ALLD-C12/4	ALLD-H12/4	ALLD-C18/4	ALLD-H18/4	ALLD-C24/4	ALLD-H24/4
	Outdoor		AL-C12/4(U)	AL-H12/4(U)	AL-C18/4(U)	AL-H18/4(U)	AL-C24/4(U)	AL-H24/4(U)
Capacity	Cooling	Btu/h	12000	12000	18000	18000	24000	24000
		kW	3.6	3.6	5.1	5.1	7.2	7.2
	Heating	Btu/h	/	13500	/	19000	/	27000
		kW	/	3.9	/	5.6	/	7.9
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1
	Cooling Power Input	kW	1.16	1.16	1.65	1.65	2.53	2.53
	Heating Power Input	kW	/	1.10	/	1.69	/	2.16
	Cooling Current	A	5.37	5.37	7.57	7.57	11.93	11.93
	Heating Current	A	/	5.16	/	7.82	/	10.39
	EER		3.10	3.10	3.09	3.09	2.85	2.85
Performance	COP		/	3.54	/	3.32	/	3.65
	Air Flow Volume(Hi/Mid/Low)	m³/h	630/504/441	630/504/441	860/688/602	860/688/602	1200/960/840	1200/960/840
	Noise Level(Hi/Mid/Low)	dB(A)	38/35/29	38/35/29	42/39/33	42/39/33	45/42/36	45/42/36
	External Static Pressure(ESP)	Pa	12/30	12/30	12/30	12/30	12/30	12/30
	Dimension(WxDxH)	Net	mm	880X547X240	880X547X240	1110X547X240	1110X547X240	1305X547X240
Weight	Packing	mm	980X620X280	980X620X280	1210X620X280	1210X620X280	1400X620X280	1400X620X280
	Net	kg	21.5	21.5	30	30	34.5	34.5
	Gross	kg	25	25	34	34	39.5	39.5
Piping	Liquid Side	mm	6.35	6.35	6.35	6.35	9.52	9.52
	Gas Side	mm	12.7	12.7	12.7	12.7	15.88	15.88
	Drainage	mm	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)
Applicable Area		m²	17-21	17-21	21-35	21-35	28-47	28-47
Stuffing Quantity		set	73/150/180	73/150/180	55/122/144	55/122/144	52/112/123	52/112/123

## R410a

Model	Indoor		ALLD-C12/4R1	ALLD-H12/4R1
	Outdoor		AL-C12/4R1(U)	AL-H12/4R1(U)
Capacity	Cooling	Btu/h	12000	12000
		kW	3.6	3.6
	Heating	Btu/h	/	13500
		kW	/	3.9
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1
	Cooling Power Input	kW	1.09	1.09
	Heating Power Input	kW	/	1.06
	Cooling Current	A	5.03	5.03
	Heating Current	A	/	4.97
	EER		3.30	3.30
Performance	COP		/	3.68
	Air Flow Volume(Hi/Mid/Low)	m³/h	630/504/440	630/504/440
	Noise Level(Hi/Mid/Low)	dB(A)	38/35/29	38/35/29
	External Static Pressure(ESP)	Pa	12/30	12/30
	Dimension(WxDxH)	Net	mm	880X547X240
Weight	Packing	mm	980X620X280	980X620X280
	Net	kg	21.5	21.5
	Gross	kg	25	25
Piping	Liquid Side	mm	6.35	6.35
	Gas Side	mm	12.7	12.7
	Drainage	mm	R3/4in(DN20)	R3/4in(DN20)
Applicable Area		m²	13-21	13-21
Stuffing Quantity		set	73/150/180	73/150/180

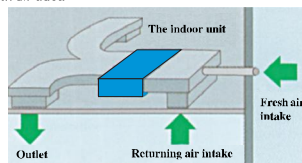
### 1.Ultra slim design

- \* Thinner, lighter and save much more space.



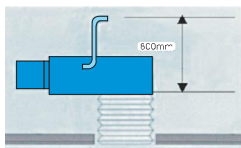
### 2.Fresh air intake

- \* Reversed fresh air intake hole, it's convenient to connect with air duct.



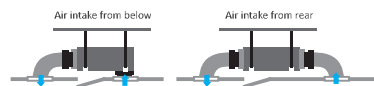
### 3.Built-in water drainage pump (Optional)

- \* The built-in pump can lift condensing water up to 800mm high from the drainage pan.



### 4.Flexible air intake options

- \* Air intake from rear as standard, from bottom as optional.
- \* The size of the plate from bottom is the same as the flange from back, which makes it convenient to change installation style due to different decoration requirement



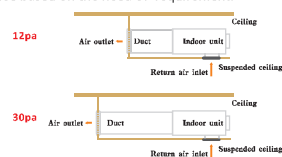
### 5.Standard accessories

- \* For all models, return air bellow and air filter are standard.



### 6.ESP adjustable, more comfortable

- \* Unit has two adjustable ESP :12Pa and 30Pa, users can free to choose based on the need of requirement.



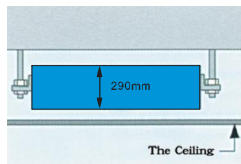
\* Remark:The above designs and specifications are subject to change of product improvement without prior notice.

# Super Uno Mid ESP Duct



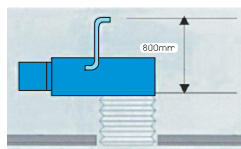
## 1.Ultra slim design

- \* Thinner. Lighter.



## 3.Built-in water drainage pump (Optional)

- \* The built-in pump can lift condensing water up to 800mm high from the drainage pan.



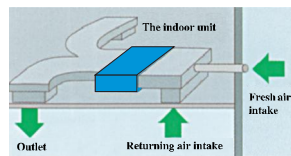
## 5.Standard accessories

- \* For all models, return air bellow and air filter are standard.



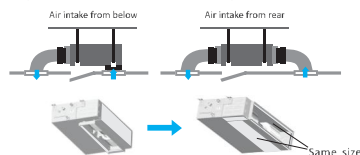
## 2.Fresh air intake

- \* Reversed fresh air intake hole , it's convenient to connect with air duct.



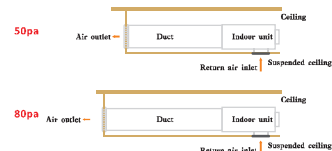
## 4.Flexible air intake options

- \* Air intake from rear as standard, from bottom as optional.
- \* The size of the plate from bottom is the same as the flange from back, which makes it convenient to change installation style due to different decoration requirement



## 6.ESP adjustable, more comfortable

- \* Unit has two adjustable ESP :50Pa and 80Pa, users can free to choose based on the need of requirement.



Model	Indoor		ALMD-C18/4	ALMD-H18/4	ALMD-C24/4
	Outdoor		AL-C18/4(U)	AL-H18/4(U)	AL-C24/4(U)
Capacity	Cooling	Btu/h	18000	18000	24000
		kW	5.1	5.1	7.2
	Heating	Btu/h	/	19000	/
kW		/	/	5.6	
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1
	Cooling Power Input	kW	1.70	1.70	2.49
	Heating Power Input	kW	/	1.67	/
	Cooling Current	A	7.81	7.81	11.73
	Heating Current	A	/	7.75	/
Performance	EER		3.00	3.00	2.89
	COP		/	3.35	/
	Air Flow Volume(Hi/Mid/Low)	m³/h	950/760/665	950/760/665	1200/960/840
	Noise Level(Hi/Mid/Low)	dB(A)	44/41/35	44/41/35	47/44/38
	External Static Pressure(ESP)	Pa	50/80	50/80	50/80
Dimension(WxDxH)	Net	mm	890X785X290	890X785X290	890X785X290
	Packing	mm	1100X870X360	1100X870X360	1100X870X360
Weight	Net	kg	34	34	36
	Gross	kg	40	40	42
	Liquid Side	mm	6.35	6.35	9.52
Piping	Gas Side	mm	12.7	12.7	15.88
	Drainage	mm	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)
	Applicable Area	m²	21-35	21-35	28-47
Stuffing Quantity		set	42/90/111	42/90/111	42/90/108

Model	Indoor		ALMD-H24/4	ALMD-C30/4	ALMD-H30/4
	Outdoor		AL-H24/4(U)	AL-C30/4(U)	AL-H30/4(U)
Capacity	Cooling	Btu/h	24000	30000	30000
		kW	7.2	8.5	8.5
	Heating	Btu/h	27000	/	31000
kW		7.9	/	9.3	
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1
	Cooling Power Input	kW	2.49	2.88	2.88
	Heating Power Input	kW	2.09	/	2.73
	Cooling Current	A	11.73	13.29	13.29
	Heating Current	A	10.04	/	12.46
Performance	EER		2.89	2.95	2.95
	COP		3.78	/	3.41
	Air Flow Volume(Hi/Mid/Low)	m³/h	1200/960/840	1500/1200/1050	1500/1200/1050
	Noise Level(Hi/Mid/Low)	dB(A)	47/44/38	50/47/41	50/47/41
	External Static Pressure(ESP)	Pa	50/80	50/80	50/80
Dimension(WxDxH)	Net	mm	890X785X290	890X785X290	890X785X290
	Packing	mm	1100X870X360	1100X870X360	1100X870X360
Weight	Net	kg	36	36	36
	Gross	kg	42	42	42
	Liquid Side	mm	9.52	9.52	9.52
Piping	Gas Side	mm	15.88	15.88	15.88
	Drainage	mm	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)
	Applicable Area	m²	28-47	32-60	32-60
Stuffing Quantity		set	42/90/108	36/72/84	36/72/84

\* Remark:The above designs and specifications are subject to change of product improvement without prior notice.



Model	Indoor		ALMD-C36/4	ALMD-H36/4	ALMD-C36/5	ALMD-H36/5
	Outdoor		AL-C36/4(U)	AL-H36/4(U)	AL-C36/5(U)	AL-H36/5(U)
Capacity	Cooling	Btu/h	36000	36000	36000	36000
		kW	10.0	10.0	10.0	10.0
	Heating	Btu/h	/	37500	/	37500
		kW	/	11.0	/	11.0
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	380~415,50,3	380~415,50,3
	Cooling Power Input	kW	3.48	3.48	3.52	3.52
	Heating Power Input	kW	/	3.61	/	3.43
	Cooling Current	A	16.06	16.06	6.31	6.31
	Heating Current	A	/	16.48	/	6.15
	Performance	EER		2.87	2.87	2.84
COP			/	3.05	/	3.21
Air Flow Volume(Hi/Mid/Low)		m³/h	1500/1200/1050	1500/1200/1050	1500/1200/1050	1500/1200/1050
Noise Level(Hi/Mid/Low)		dB(A)	50/47/41	50/47/41	50/47/41	50/47/41
External Static Pressure(ESP)		Pa	50/80	50/80	50/80	50/80
Dimension(WxDxH)	Net	mm	890X785X290	890X785X290	890X785X290	890X785X290
	Packing	mm	1100X870X360	1100X870X360	1100X870X360	1100X870X360
Weight	Net	kg	36	36	36	36
	Gross	kg	42	42	42	42
	Piping	Liquid Side	mm	9.52	9.52	9.52
Gas Side		mm	15.88	15.88	15.88	15.88
Drainage		mm	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)
Applicable Area		m²	42~70	42~70	42~70	42~70
Stuffing Quantity	20/40/40H	set	36/72/84	36/72/84	36/72/84	36/72/84

Model	Indoor		ALMD-C48/5	ALMD-H48/5	ALMD-C60/5	ALMD-H60/5
	Outdoor		AL-C48/5(U)	AL-H48/5(U)	AL-C60/5(U)	AL-H60/5(U)
Capacity	Cooling	Btu/h	48000	48000	60000	60000
		kW	14.0	14.0	17.0	17.0
	Heating	Btu/h	/	51000	/	63000
		kW	/	15.0	/	17.5
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3	380~415,50,3	380~415,50,3	380~415,50,3
	Cooling Power Input	kW	4.84	4.84	5.67	5.67
	Heating Power Input	kW	/	4.35	/	5.39
	Cooling Current	A	8.83	8.83	10.36	10.36
	Heating Current	A	/	7.91	/	9.79
	Performance	EER		2.89	2.89	3.00
COP			/	3.45	/	3.25
Air Flow Volume(Hi/Mid/Low)		m³/h	2000/1600/1400	2000/1600/1400	2000/1600/1400	2000/1600/1400
Noise Level(Hi/Mid/Low)		dB(A)	53/50/44	53/50/44	53/50/44	53/50/44
External Static Pressure(ESP)		Pa	50/80	50/80	50/80	50/80
Dimension(WxDxH)	Net	mm	1250X785X290	1250X785X290	1250X785X290	1250X785X290
	Packing	mm	1460X870X360	1460X870X360	1460X870X360	1460X870X360
Weight	Net	kg	52	52	52	52
	Gross	kg	59	59	59	59
	Piping	Liquid Side	mm	9.52	9.52	9.52
Gas Side		mm	19.05	19.05	19.05	19.05
Drainage		mm	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)
Applicable Area		m²	56-93	56-93	64-107	64-107
Stuffing Quantity	20/40/40H	set	25/50/54	25/50/54	25/50/54	25/50/54

★ Remark:The above designs and specifications are subject to change of product improvement without prior notice.



Model	Indoor		ALMD-C18/4R1	ALMD-H18/4R1	ALMD-C24/4R1	ALMD-H24/4R1	ALMD-C36/5R1	ALMD-H36/5R1
	Outdoor		AL-C18/4R1(U)	AL-H18/4R1(U)	AL-C24/4R1(U)	AL-H24/4R1(U)	AL-C36/5R1(U)	AL-H36/5R1(U)
Capacity	Cooling	Btu/h	18000	18000	24000	24000	36000	36000
		kW	5.3	5.3	7.2	7.2	10.6	10.6
	Heating	Btu/h	/	20000	/	27500	/	40000
		kW	/	5.8	/	8.1	/	11.7
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1	380~415,50,3	380~415,50,3
	Cooling Power Input	kW	1.73	1.73	2.24	2.24	3.73	3.73
	Heating Power Input	kW	/	1.79	/	2.35	/	3.50
	Cooling Current	A	7.95	7.95	10.37	10.37	6.69	6.69
	Heating Current	A	/	8.22	/	10.89	/	6.28
	Performance	EER		3.06	3.06	3.21	3.21	2.84
COP			/	3.24	/	3.45	/	3.34
Air Flow Volume(Hi/Mid/Low)		m³/h	1000/800/700	1000/800/700	1400/1120/980	1400/1120/980	2000/1600/1400	2000/1600/1400
Noise Level(Hi/Mid/Low)		dB(A)	44/41/35	44/41/35	47/44/38	47/44/38	50/47/41	50/47/41
External Static Pressure(ESP)		Pa	50/80	50/80	50/80	50/80	50/80	50/80
Dimension(WxDxH)	Net	mm	890X785X290	890X785X290	890X785X290	890X785X290	890X785X290	890X785X290
	Packing	mm	1100X870X360	1100X870X360	1100X870X360	1100X870X360	1100X870X360	1100X870X360
Weight	Net	kg	34	34	36	36	36	36
	Gross	kg	40	40	42	42	42	42
	Piping	Liquid Side	mm	6.35	6.35	9.52	9.52	9.52
Gas Side		mm	12.7	12.7	15.88	15.88	15.88	15.88
Drainage		mm	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)
Applicable Area		m²	21-35	21-35	28-47	28-47	42-70	42-70
Stuffing Quantity	20/40/40H	set	42/90/111	42/90/111	42/90/108	42/90/108	36/72/84	36/72/84

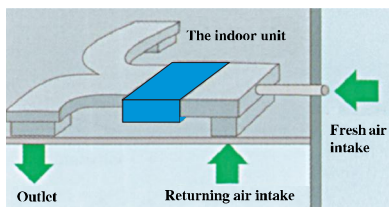
★ Remark:The above designs and specifications are subject to change of product improvement without prior notice.

# Super Uno High ESP Duct



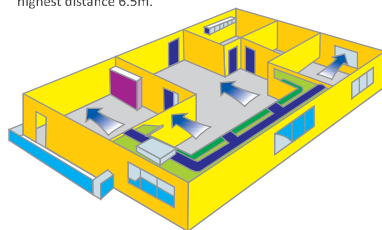
## 1. Fresh air intake

- \* Reversed fresh air intake hole, it's convenient to connect with air duct.



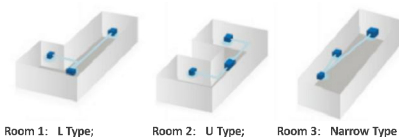
## 2. High ESP design, long distance air supply

- \* High ESP makes the longest air supply distance reach 16m, and the highest distance 6.5m.



## 3. Applicable to a variety of room type

- \* Specific ESP design can be applied to various room type easily, like rooms with L type or U type; the air outlet can be set separately from the indoor unit, so the air flow can be equally distributed even the room is in irregular structure.



## R22

Model	Indoor		ALHD-C24/4	ALHD-H24/4	ALHD-C48/5	ALHD-H48/5	ALHD-C60/5	ALHD-H60/5
	Outdoor		AL-C24/4(U)	AL-H24/4(U)	AL-C48/5(U)	AL-H48/5(U)	AL-C60/5(U)	AL-H60/5(U)
Capacity	Cooling	Btu/h	24000	24000	48000	48000	60000	60000
		kW	7.2	7.2	14.0	14.0	17.0	17.0
	Heating	Btu/h	/	27000	/	51000	/	63000
kW		/	7.9	/	15.0	/	17.5	
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	380~415,50,3	380~415,50,3	380~415,50,3	380~415,50,3
	Cooling Power Input	kW	2.53	2.53	5.28	5.28	6.06	6.06
	Heating Power Input	kW	/	2.43	/	5.15	/	5.61
	Cooling Current	A	11.78	11.78	9.49	9.49	10.89	10.89
	Heating Current	A	/	11.45	/	9.26	/	10.08
Performance	EER		2.85	2.85	2.65	2.65	2.81	2.81
	COP		/	3.25	/	2.92	/	3.12
	Air Flow Volume(Hi/Mid/Low)	m³/h	1200/960/840	1200/960/840	2000/1600/1400	2000/1600/1400	2000/1600/1400	2000/1600/1400
	Noise Level(Hi/Mid/Low)	dB(A)	53/50/44	53/50/44	60/57/51	60/57/51	60/57/51	60/57/51
Dimension(WxDxH)	External Static Pressure(ESP)	Pa	196	196	196	196	196	196
	Net	mm	1000X719X380	1000X719X380	1200X719X380	1200X719X380	1200X719X380	1200X719X380
Weight	Packing	mm	1035X760X415	1035X760X415	1235X760X415	1235X760X415	1235X760X415	1235X760X415
	Net	kg	35	35	55	55	55	55
	Gross	kg	37	37	58	58	58	58
Piping	Liquid Side	mm	9.52	9.52	9.52	9.52	9.52	9.52
	Gas Side	mm	15.88	15.88	19.05	19.05	19.05	19.05
	Drainage	mm	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)
Applicable Area		m²	28-47	28-47	56-93	56-93	64-107	64-107
Stuffing Quantity		set	45/93/100	45/93/100	24/54/54	24/54/54	24/54/54	24/54/54

## R410a

Model	Indoor		ALHD-C24/4R1	ALHD-H24/4R1	ALHD-C48/5R1	ALHD-H48/5R1	ALHD-C60/5R1	ALHD-H60/5R1
	Outdoor		AL-C24/4R1(U)	AL-H24/4R1(U)	AL-C48/5R1(U)	AL-H48/5R1(U)	AL-C60/5R1(U)	AL-H60/5R1(U)
Capacity	Cooling	Btu/h	24000	24000	48000	48000	60000	60000
		kW	7.2	7.2	14.0	14.0	17.6	17.6
	Heating	Btu/h	/	27500	/	53000	/	63500
kW		/	8.1	/	15.5	/	18.5	
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	380~415,50,3	380~415,50,3	380~415,50,3	380~415,50,3
	Cooling Power Input	kW	2.70	2.70	4.87	4.87	5.71	5.71
	Heating Power Input	kW	/	2.50	/	5.13	/	6.00
	Cooling Current	A	12.50	12.50	8.88	8.88	10.41	10.41
	Heating Current	A	/	11.59	/	9.33	/	10.91
Performance	EER		2.67	2.67	2.87	2.87	3.08	3.08
	COP		/	3.24	/	3.02	/	3.08
	Air Flow Volume(Hi/Mid/Low)	m³/h	1200/960/840	1200/960/840	2000/1600/1400	2000/1600/1400	2000/1600/1400	2000/1600/1400
	Noise Level(Hi/Mid/Low)	dB(A)	53/50/44	53/50/44	60/57/51	60/57/51	60/57/51	60/57/51
Dimension(WxDxH)	External Static Pressure(ESP)	Pa	196	196	196	196	196	196
	Net	mm	1000X719X380	1000X719X380	1200X719X380	1200X719X380	1200X719X380	1200X719X380
Weight	Packing	mm	1035X760X415	1035X760X415	1235X760X415	1235X760X415	1235X760X415	1235X760X415
	Net	kg	35	35	55	55	55	55
	Gross	kg	37	37	58	58	59	59
Piping	Liquid Side	mm	9.52	9.52	9.52	9.52	9.52	9.52
	Gas Side	mm	15.88	15.88	19.05	19.05	19.05	19.05
	Drainage	mm	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)	R3/4in(DN20)
Applicable Area		m²	28-47	28-47	56-93	56-93	64-107	64-107
Stuffing Quantity		set	45/93/100	45/93/100	24/54/54	24/54/54	24/54/54	24/54/54

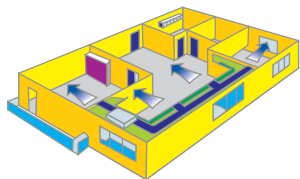
\* Remark: The above designs and specifications are subject to change of product improvement without prior notice.

# Commercial High ESP Duct



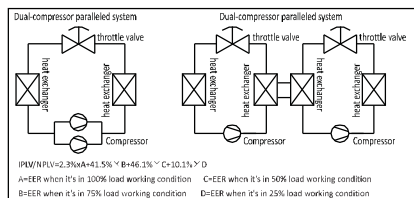
## 1.High ESP design, long air supply distance

- ★ High ESP design makes the longest air supply distance 50m, and the highest distance 6.5m, and the air supplied indoor is distributed well.



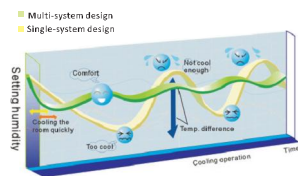
## 3.Design patent, parallel technology, increased IPLV

- ★ Patent throttling parts, which owns national recognized practical new patent certificate.
- ★ Dual-compressor paralleled technology, IPLV increased by 28%.
- ★ Startup with 25% load, which lowers the impact to power grid.



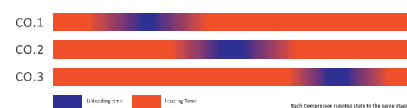
## 2.Multi-system design, increased EER

- ★ Independent system can achieve 0~50%~100% multi-level adjustment according to different load.
- ★ Indoor temperature large fluctuation problem existing in old design gets improved.
- ★ EER and SEER increased, which saves operation cost



## 4.Compressor equilibrium technology

- ★ Using micro PC to monitor operating time of each compressor in order to avoid damage caused by overlong operation, which extends the product lifetime



Model	Indoor		ALHD-C90/5A	ALHD-H90/5A	ALHD-C90/5	ALHD-H90/5	ALHD-C110/5	ALHD-H110/5
	Outdoor		AL-C90/5(HD)A	AL-H90/5(HD)A	AL-C90/5(HD)	AL-H90/5(HD)	AL-C110/5(HD)	AL-H110/5(HD)
Capacity	Cooling	Btu/h	90000	90000	90000	90000	110000	110000
		kW	25.0	25.0	25.0	25.0	32.0	32.0
	Heating	Btu/h	/	94000	/	94000	/	120000
		kW	/	27.5	/	27.5	/	35.2
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3	380~415,50,3	380~415,50,3	380~415,50,3	380~415,50,3	380~415,50,3
	Cooling Power Input	kW	10.20	10.20	10.20	10.20	13.06	13.06
	Heating Power Input	kW	/	9.99	/	9.25	/	12.51
	Cooling Current	A	18.70	18.70	19.50	19.50	23.96	23.96
	Heating Current	A	/	17.9	/	17.70	/	23.33
Performance	EER		2.45	2.45	2.45	2.45	2.45	2.45
	COP		/	2.75	/	2.97	/	2.81
Indoor	Net Dimension	mm	1670X870X360	1670X870X360	1755X915X645	1755X915X645	1755X915X645	1755X915X645
	Packing Dimension	mm	1830X980X420	1830X980X420	1850X940X780	1850X940X780	1850X940X780	1850X940X780
	Net Weight	kg	92	92	110	110	120	120
	Gross Weight	kg	102	102	130	130	140	140
	Air Flow Volume(H/Mid/Low)	m <sup>3</sup> /h	4080	4080	5000	5000	6000	6000
	Noise Level(H/Mid/Low)	dB(A)	54	54	60	60	60	60
	External Static Pressure(ESP)	Pa	80	80	150	150	120	120
Outdoor	Net Dimension	mm	1350X600X1450	1350X600X1450	1350X600X1450	1350X600X1450	1550X600X1450	1550X600X1450
	Packing Dimension	mm	1550X740X1650	1550X740X1650	1550X740X1650	1550X740X1650	1740X740X1650	1740X740X1650
	Net Weight	kg	190	200	190	200	260	260
	Gross Weight	kg	220	230	220	230	270	280
	Noise level	dB(A)	62	62	62	62	63	63
Piping	Liquid Side	mm	9.52X2	9.52X2	9.52X2	9.52X2	12.7X2	12.7X2
	Gas Side	mm	19.05X2	19.05X2	19.05X2	19.05X2	19.05X2	19.05X2
	Max. Length	m	50	50	50	50	50	50
	Max. Height	m	30	30	30	30	30	30
Stuffing Quantity		set	6/14/17	6/14/17	4/9/14	4/9/14	4/8/14	4/8/14

Model	Indoor		ALHD-C150/5	ALHD-H150/5	ALHD-C185/5	ALHD-H185/5	ALHD-C220/5	ALHD-H220/5
	Outdoor		AL-C150/5(HD)	AL-H150/5(HD)	AL-C185/5(HD)1+AL-C185/5(HD)2	AL-H185/5(HD)1+AL-H185/5(HD)2	AL-C220/5(HD)x2	AL-H220/5(HD)x2
Capacity	Cooling	Btu/h	150000	150000	185000	185000	220000	220000
		kW	42.0	42.0	54.0	54.0	64.0	64.0
	Heating	Btu/h	/	157500	/	202500	/	240000
		kW	/	46.2	/	59.4	/	70.4
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3	380~415,50,3	380~415,50,3	380~415,50,3	380~415,50,3	380~415,50,3
	Cooling Power Input	kW	17.36	17.36	22.5	22.5	27.24	27.24
	Heating Power Input	kW	/	15.40	/	21.47	/	25.17
	Cooling Current	A	31.56	31.56	39.69	39.69	48.31	48.31
	Heating Current	A	/	27.89	/	38.37	/	45.53
Performance	EER		2.42	2.42	2.40	2.40	2.35	2.35
	COP		/	3.00	/	2.77	/	2.80
Indoor	Net Dimension	mm	1820X990X855	1820X990X855	2115X990X855	2115X990X855	2420X1090X855	2420X1090X855
	Packing Dimension	mm	1930X1010X990	1930X1010X990	2230X1010X990	2230X1010X990	2530X1110X990	2530X1110X990
	Net Weight	kg	150	150	225	225	290	290
	Gross Weight	kg	170	170	255	255	320	320
	Air Flow Volume(H/Mid/Low)	m <sup>3</sup> /h	8000	8000	10000	10000	12000	12000
	Noise Level(H/Mid/Low)	dB(A)	62	62	63	63	65	65
	External Static Pressure(ESP)	Pa	150	150	180	180	200	200
Outdoor	Net Dimension	mm	2350X600X1450	2350X600X1450	(1550X600X1450)x2	(1550X600X1450)x2	(1550X600X1450)x2	(1550X600X1450)x2
	Packing Dimension	mm	2540X740X1650	2540X740X1650	(1740X740X1650)x2	(1740X740X1650)x2	(1740X740X1650)x2	(1740X740X1650)x2
	Net Weight	kg	390	400	240X2	250X2	260X2	270X2
	Gross Weight	kg	420	430	280X2	290X2	290X2	300X2
	Noise level	dB(A)	64	64	65	65	66	66
Piping	Liquid Side	mm	12.7X3	12.7X3	15.88X2	15.88X2	15.88X2	15.88X2
	Gas Side	mm	19.05X3	19.05X3	28.58X2	28.58X2	28.58X2	28.58X2
	Max. Length	m	50	50	50	50	50	50
	Max. Height	m	30	30	30	30	30	30
Stuffing Quantity		set	3/8/11	3/8/11	3/6/7	3/6/7	2/5/7	2/5/7

★ Remark:The above designs and specifications are subject to change of product improvement without prior notice.

# Commercial Floor Standing



## 1.Touch screen design

- ★ Elegant touch screen design, longer lifetime than traditional button design.



## 2.One-click lock function

- ★ One click lock function controlled by remote controller can avoid mistake operation in public places.



## 3.Auto swing design, wide swing angle

- ★ These 2 features can make indoor temperature distributed even.

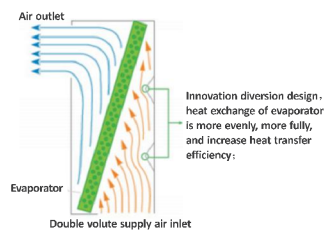
## 4.Multi-system design, EER increased

- ★ Independent system can achieve 0~50%~100% multi-level adjustment according to different load.
- ★ Indoor temperature large fluctuation problem existing in old design gets improved
- ★ EER and SEER increased, which saves operation cost.



## 5.Innovation diversion design

- ★ Innovation diversion design in evaporator air inlet side - makes strong airflow more evenly through evaporator - which avoid heat exchange focused on the top, thus makes heat exchange more fully and more high-efficient, at the same time, the temperature is more uniform , comfortable, and the capacity is stronger.



Model	Indoor		ALFS-C100/S	ALFS-H100/S
	Outdoor		AL-C100/S(FS)	AL-H100/S(FS)
Capacity	Cooling	Btu/h	100000	100000
		kW	27.1	27.1
	Heating	Btu/h	/	101500
		kW	/	29.8
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3	380~415,50,3
	Cooling Power Input	kW	9.75	9.75
	Heating Power Input	kW	/	11.23
	Cooling Current	A	16.46	16.46
Performance	Heating Current	A	/	18.96
	EER		2.78	2.78
Indoor	COP		/	2.65
	Net Dimension	mm	1200X360X1850	1200X360X1850
	Packing Dimension	mm	1270X430X2000	1270X430X2000
	Net Weight	kg	110	120
	Gross Weight	kg	125	135
	Air Flow Volume(Hi/Mid/Low)	m <sup>3</sup> /h	3800	3800
Outdoor	Noise Level(Hi/Mid/Low)	dB(A)	60	60
	Net Dimension	mm	1350X600X1450	1350X600X1450
	Packing Dimension	mm	1550X740X1650	1550X740X1650
	Net Weight	kg	195	200
Piping	Gross Weight	kg	220	225
	Liquid Side	mm	9.52X2	9.52X2
	Gas Side	mm	19.05X2	19.05X2
	Max. Length	m	50	50
Stuffing Quantity	Max. Height difference	m	20	20
		set	5/13/15	5/13/15

★ Remark:The above designs and specifications are subject to change of product improvement without prior notice.