

## Commercial Air Conditioners 2018/2019



## Air Cooled Chillers & AC Fan Coil Units



### Commercial Air Conditioner Division

#### Midea Group

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Note: Product specifications change from time to time as product improvements and developments are released and may vary from those in this document.



Midea CAC After-service Application



iOS Version



Midea CAC News Application



Android Version



Midea CAC News Application



iOS Version

# Specifications

## 50Hz PS & PS-LA series (Fixed type)

Model		MGCC-F30W/RN1(B) MGCL-F30W/RN1	MGB-F65W/RN1(B) MGBL-F65W/RN1	MGB-F130W/RN1(B) MGBL-F130W/RN1	MGB-F200W/RN1(B) MGBL-F200W/RN1	MGBL-F250W/RN1	
Power supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	
Cooling <sup>1</sup>	Capacity	kW	30	65	130	185	250
	Input	kW	10.0	20.4	40.8	63.0	78.3
	EER		3.00	3.18	3.18	2.93	3.19
Heating <sup>2</sup>	Capacity	kW	32	69	138	200	270
	Input	kW	9.8	21.5	43.0	61.0	80.0
	COP		3.27	3.21	3.21	3.27	3.38
Max running current		A	21.1	54.5	109	150	200
Compressor	Type		Fixed Scroll	Fixed Scroll	Fixed Scroll	Fixed Scroll	Fixed Scroll
	Quantity	Pieces	2	2	4	6	8
Air side heat exchanger	Type		Fin-coil	Fin-coil	Fin-coil	Fin-coil	Fin-coil
	Fan motor type		AC Motor	AC Motor	AC Motor	AC Motor	AC Motor
	Quantity of fan motor	Pieces	1	2	4	6	8
	Air flow	m <sup>3</sup> /h	12,000	24,000	48,000	72,000	96,000
Water side heat exchanger	Type		Double-pipe	Shell-tube	Shell-tube	Shell-tube	Shell-tube
	Water pressure drop	kPa	60	15	25	30	40
	Volume	L	10	42	64	90	131
	Water flow volume	m <sup>3</sup> /h	5.2	11.2	22.4	31.8	43
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Charged volume	kg	7.0	14.0	28.0	42.0	60.0
	Throttle type		EXV	EXV	EXV	EXV	EXV+Capillary
Sound pressure level <sup>3</sup>		dB(A)	65	67	70	74	74
Unit net dimension(DxHxW)		mm	1,514×1,865×841	2,000×1,880×900	2,000×2,090×1,685	2,850×2,110×2,000	3,800×2,130×2,000
Packing dimension(DxHxW)		mm	1,590×2,065×995	2,106×2,090×998	2,090×2,240×1,755	2,980×2,260×2,135	3,900×2,200×2,100
Net/ Gross weight		kg	375/400	580/650	1,150/1,270	1,730/2,000	2,450/2,600
Pipe connections	Water inlet/outlet	mm	DN40	DN100	DN65	DN80	DN100
Controller			Wired controller	Wired controller	Wired controller	Wired controller	Wired controller
Ambient temperature range	Cooling	°C	10~46	10~46	10~46	10~46	10~46
	Heating	°C	-10~24	-10~24	-10~24	-10~24	-10~24
Ambient temperature range <sup>4</sup>	Cooling	°C	-10~46	-10~46	-10~46	-10~46	-10~46
	Heating	°C	-10~24	-10~24	-10~24	-10~24	-10~24
Water outlet temperature range	Cooling	°C	5~17	5~17	5~17	5~17	5~17
	Heating	°C	40~50	40~50	40~50	40~50	40~50
Water outlet temperature range <sup>5</sup>	Cooling	°C	0~17	0~17	0~17	0~17	0~17
	Heating	°C	22~50	22~50	22~50	22~50	22~50

- Cooling: Chilled water inlet/outlet temperature: 12/7°C, outdoor ambient temperature 35°C DB.
- Heating: Warm water inlet/outlet temperature: 40/45°C, outdoor ambient temperature 7°C DB/6°C WB.
- 1m away in open field.
- The data is for PS-LA series.
- The data is for low water outlet temperature function

## 50Hz PS & PS-LA series (Digital type)

Model		MGCC-D30W/RN1(B) MGCL-D30W/RN1	MGB-D65W/RN1(B) MGBL-D65W/RN1	
Power supply		V/Ph/Hz	380-415/3/50	380-415/3/50
Cooling <sup>1</sup>	Capacity	kW	30	65
	Input	kW	10.0	20.4
	EER		3.00	3.18
Heating <sup>2</sup>	Capacity	kW	32	69
	Input	kW	9.8	21.5
	COP		3.27	3.21
Max running current		A	21.1	54.5
Compressor	Type		Digital Scroll+Fixed Scroll	Digital Scroll+Fixed Scroll
	Quantity	Pieces	2	3
Air side heat exchanger	Type		Finned tube	Finned tube
	Fan motor type		AC Motor	AC Motor
	Quantity of fan motor	Pieces	1	2
	Air flow	m <sup>3</sup> /h	12,000	24,000
Water side heat exchanger	Type		Double-pipe	Shell-tube
	Water pressure drop	kPa	60	15
	Volume	L	10	42
	Water flow volume	m <sup>3</sup> /h	5.2	11.2
Refrigerant	Type		R410A	R410A
	Charged volume	kg	7.0	14.0
	Throttle type		EXV	EXV
Sound pressure level <sup>3</sup>		dB(A)	65	67
Unit net dimension(DxHxW)		mm	1,514×1,865×841	2,000×1,880×900
Packing dimension(DxHxW)		mm	1,590×2,065×995	2,106×2,090×998
Net/Gross weight		kg	375/400	610/680
Pipe connections	Water inlet/outlet	mm	DN40	DN100
Controller			Wired controller	Wired controller
Ambient temperature range	Cooling	°C	10~46	10~46
	Heating	°C	-10~24	-10~24
Ambient temperature range <sup>4</sup>	Cooling	°C	-10~46	-10~46
	Heating	°C	-10~24	-10~24
Water outlet temperature range	Cooling	°C	5~17	5~17
	Heating	°C	40~50	40~50
Water outlet temperature range <sup>5</sup>	Cooling	°C	0~17	0~17
	Heating	°C	22~50	22~50

- Cooling: Chilled water inlet/outlet temperature: 12/7°C, outdoor ambient temperature 35°C DB.
- Heating: Warm water inlet/outlet temperature: 40/45°C, outdoor ambient temperature 7°C DB/6°C WB.
- 1m away in open field.
- The data is for PS-LA series.
- The data is for low water outlet temperature function

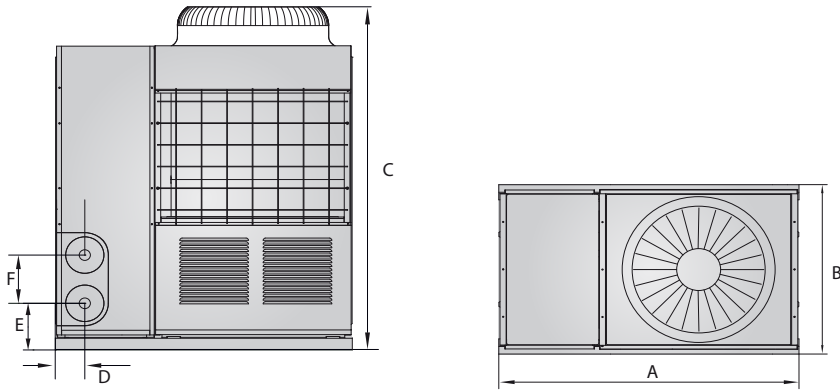
## 50Hz PS-HM &amp; PS-HMLA series

Model			MGCS-F30W/RN1 MGCSL-F30W/RN1	MGCS-D30W/RN1 MGCSL-D30W/RN1
Power supply		V/Ph/Hz	380-415/3/50	380-415/3/50
Cooling <sup>1</sup>	Capacity	kW	30	30
	Input	kW	10+1.2(Pump)	10+1.2(Pump)
	EER		2.68	2.68
Heating <sup>2</sup>	Capacity	kW	32	32
	Input	kW	9.8+1.2(Pump)	9.8+1.2(Pump)
	COP		3.20	3.20
Max. running current		A	25.3	25.3
Compressor	Type		Fixed Scroll	Digital Scroll+Fixed Scroll
	Quantity	Pieces	2	2
Air side heat exchanger	Type		Finned tube	Finned tube
	Fan motor type		AC Motor	AC Motor
	Quantity of fan motor	Pieces	1	1
	Air flow	m <sup>3</sup> /h	12,000	12,000
Water side heat exchanger	Type		Double-pipe	Double-pipe
	Volume	L	10	10
	Water flow volume	m <sup>3</sup> /h	5.2	5.2
Refrigerant	Type		R410A	R410A
	Charged volume	kg	7.0	7.0
	Throttle type		EXV	EXV
Sound pressurer level		dB(A)	67	67
Unit net dimension(D×H×W)		mm	1,514×1,865×910	1,514×1,865×910
Packing dimension(D×H×W)		mm	1,590×2,065×995	1,590×2,065×995
Net/Gross weight		kg	430/450	430/450
Pipe connections	Water inlet/outlet	mm	DN40	DN40
Controller			Wired controller	Wired controller
Ambient temperature range	Cooling	°C	10~46	10~46
	Heating	°C	-10~24	-10~24
Ambient temperature rangè	Cooling	°C	-10~46	-10~46
	Heating	°C	-10~24	-10~24
Water outlet temperature range	Cooling	°C	5~17	5~17
	Heating	°C	40~50	40~50
Water outlet temperature rangè	Cooling	°C	0~17	0~17
	Heating	°C	22~50	22~50

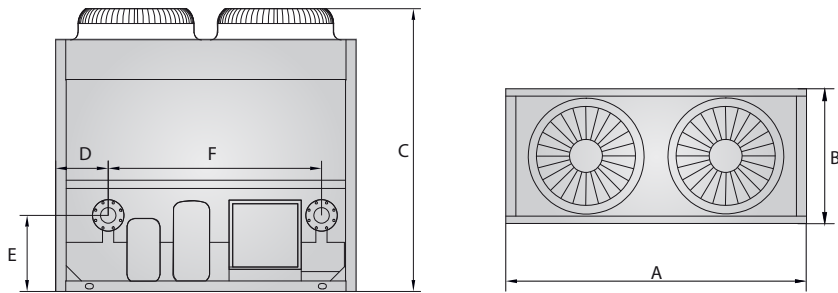
1. Cooling: Chilled water inlet/outlet temperature: 12/7°C, outdoor ambient temperature 35°C DB.
2. Heating: Warm water inlet/outlet temperature: 40/45°C, outdoor ambient temperature 7°C DB/6°C WB.
3. 1m away in open field.
- 4.The date is for PS-HMLA series
- 5.The data is for low water outlet temperature function

## Dimensions (Unit:mm)

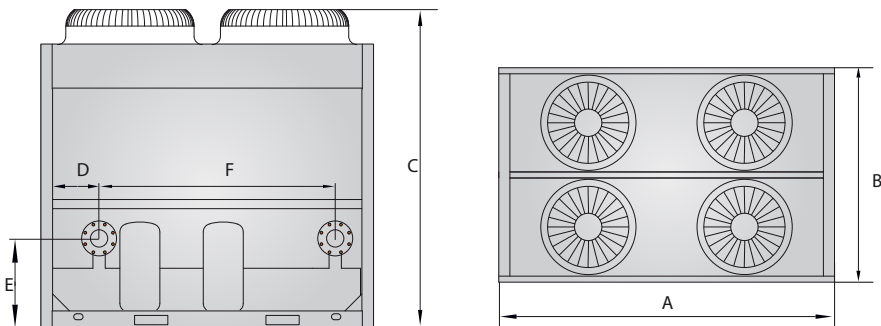
### 30kW module >>



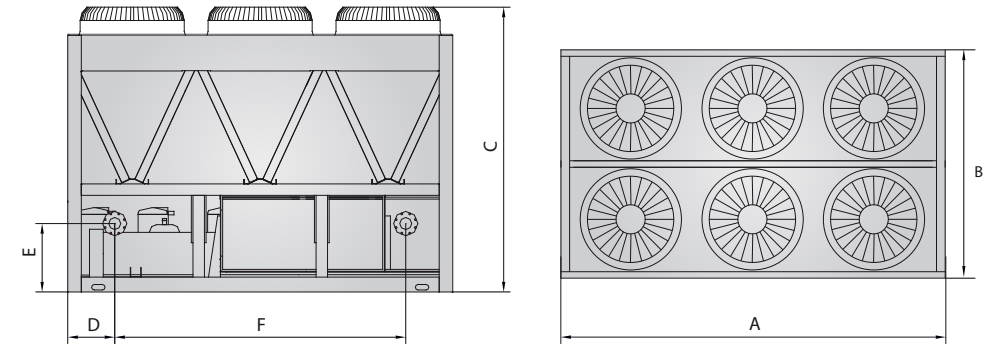
### 65kW module >>



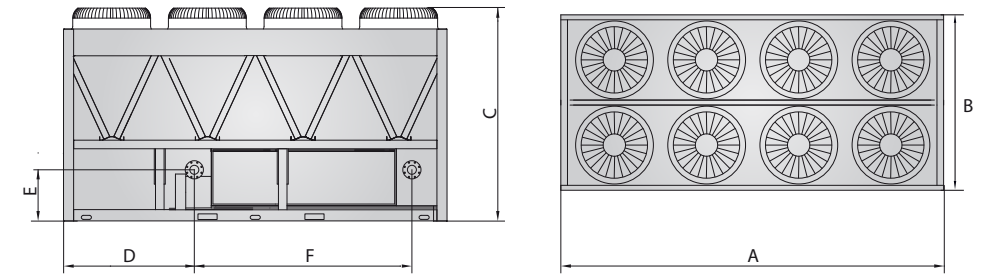
### 130kW module >>



### 200kW module >>



### 250kW module >>



Model	A	B	C	D	E	F
MGC-F(D)30W/RN1(B) MGCL-F(D)30W/RN1	1514	841	1865	115	315	172
MGCS-F(D)30W/RN1 MGCSL-F(D)30W/RN1	1514	910	1865	100	317	557
MGB-F(D)65W/RN1(B) MGBL-F(D)65W/RN1 MGB-F65W/PN1	2000	900	1880	350	506	1420
MGB-F130W/RN1(B) MGBL-F130W/RN1 MGB-F130W/PN1	2000	1685	2080	350	506	1420
MGB-F200W/RN1(B) MGBL-F200W/RN1	2850	2000	2110	347	506	2156
MGBL-F250W/RN1	3800	2000	2130	1235	573	2156

## Specifications

### SP-LA series

Model			MC-SP25-RN1L	MC-SP35-RN1L	MC-SP65-RN1L
Power supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Cooling <sup>1</sup>	Capacity	kW	25	35	65
	Input	kW	8.0	11.5	20.4
	EER		3.13	3.04	3.19
Heating <sup>2</sup>	Capacity	kW	26	37	69
	Input	kW	8.0	11.3	21.5
	COP		3.27	3.27	3.21
Max. running current		A	20.7	28.8	54.5
Compressor	Type		Fixed Scroll	Fixed Scroll	Fixed Scroll
	Quantity	Pieces	1	1	1
Air side heat exchanger	Type		Finned tube	Finned tube	Finned tube
	Fan motor type		AC Motor	AC Motor	AC Motor
	Quantity of fan motor	Pieces	1	1	2
	Air flow	m <sup>3</sup> /h	13,500	13,500	27,000
Water side heat exchanger	Type		Plate type	Plate type	Plate type
	Water pressure drop	kPa	77	63	55
	Volume	L	1.89	2.77	4.44
	Water flow volume	m <sup>3</sup> /h	4.3	6	11.2
Refrigerant	Type		R410A	R410A	R410A
	Charged volume	kg	3.1	5.4	10
	Throttle type		EXV	EXV	EXV
Sound pressure level		dB(A)	65	65	67
Unit net dimension(DxHxW)		mm	1,020x1,770x980	1,020x1,770x980	2,000x1,770x960
Packing dimension(DxHxW)		mm	1,070x1,900x1030	1,070x1,900x1030	2,090x1,890x1030
Net/Gross weight		kg	276/286	304/314	470/490
Pipe connections	Water inlet/outlet	mm	DN40	DN40	DN50
Controller			Wired controller	Wired controller	Wired controller
Ambient temperature range	Cooling	°C	-10~46	-10~46	-10~46
	Heating	°C	-15~24	-15~24	-15~24
Water outlet temperature range	Cooling	°C	5~17	5~17	5~17
	Heating	°C	45~50	45~50	45~50
Water outlet temperature rangé	Cooling	°C	0~17	0~17	0~17
	Heating	°C	25~50	25~50	25~50

1. Cooling: Chilled water inlet/outlet temperature: 12/7°C, outdoor ambient temperature 35°C DB.
2. Heating: Warm water inlet/outlet temperature: 40/45°C, outdoor ambient temperature 7°C DB/6°C WB.
3. 1m away in open field.
4. The data is for low water outlet temperature function.

### SP-HMLA series

Model			MC-SP35M-RN1L
Power supply		V/Ph/Hz	380-415/3/50
Cooling <sup>1</sup>	Capacity	kW	35
	Input	kW	12.7
	EER		2.76
Heating <sup>2</sup>	Capacity	kW	38
	Input	kW	12.5
	COP		3.04
Max. running current		A	32.1
Compressor	Type		Fixed Scroll
	Quantity	Pieces	1
Air side heat exchanger	Type		Finned tube
	Fan motor type		AC Motor
	Quantity of fan motor	Pieces	1
	Air flow	m <sup>3</sup> /h	13,500
Water side heat exchanger	Type		Plate type
	Volume	L	2.77
	Water flow volume	m <sup>3</sup> /h	6
Refrigerant	Type		R410A
	Charged volume	kg	5.4
	Throttle type		EXV
Sound pressure level		dB(A)	65
Unit net dimension(DxHxW)		mm	1,020x1,770x980
Packing dimension(DxHxW)		mm	1,070x1,900x1,030
Net/Gross weight		kg	343/353
Pipe connections	Water inlet/outlet	mm	DN40
Controller			Wired controller
Ambient temperature range	Cooling	°C	-10~46
	Heating	°C	-15~24
Water outlet temperature range	Cooling	°C	5~17
	Heating	°C	45~50
Water outlet temperature rangé	Cooling	°C	0~17
	Heating	°C	25~50

1. Cooling: Chilled water inlet/outlet temperature: 12/7°C, outdoor ambient temperature 35°C DB.
2. Heating: Warm water inlet/outlet temperature: 40/45°C, outdoor ambient temperature 7°C DB/6°C WB.
3. 1m away in open field.
4. The data is for low water outlet temperature function.

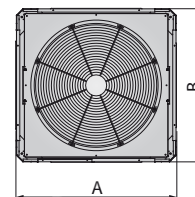
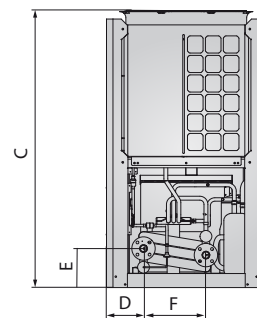
## SS series & SS-LA series

Model			MC-SS35/RN1 MC-SS35/RN1L	MC-SS65/RN1 MC-SS65/RN1L	MC-SS80/RN1 MC-SS80/RN1L	MC-SS130/RN1 MC-SS130/RN1L
Power supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Cooling <sup>1</sup>	Capacity	kW	35	65	80	130
	Input	kW	11.5	20.4	25.8	42.3
	EER		3.04	3.19	3.10	3.07
Heating <sup>2</sup>	Capacity	kW	37	69	85	138
	Input	kW	11.3	21.5	26.5	43
	COP		3.27	3.21	3.21	3.21
Max. running current		A	27.0	54.5	65	109
Compressor	Type		Fixed Scroll	Fixed Scroll	Fixed Scroll	Fixed Scroll
	Quantity	Pieces	1	1	2	2
Air side heat exchanger	Type		Finned tube	Finned tube	Finned tube	Finned tube
	Fan motor type		AC Motor	AC Motor	AC Motor	AC Motor
	Quality of fan motor	Pieces	1	2	2	2
Water side heat exchanger	Air flow	m <sup>3</sup> /h	13,500	27,000	27,000	50,000
	Type		Double-pipe	Shell-tube	Shell-tube	Shell-tube
	Water pressure drop	kPa	55	30	30	40
Refrigerant	Volume	L	10	35	47.5	60
	Water flow volume	m <sup>3</sup> /h	6	11.2	13.8	22.4
	Type		R410A	R410A	R410A	R410A
Sound pressurer level	Charged volume	kg	5.4	11.5	13	21
	Throttle type		EXV	EXV	EXV	EXV
Unit net dimension(DxHxW)		mm	1,020x1,770x980	2,000x1,770x960	2,000x1,770x960	2,200x2,060x1,120
Packing dimension(DxHxW)		mm	1,070x1,900x1,030	2,090x1,890x1,030	2,090x1,890x1,030	2,250x2,200x1,180
Net/Gross weight		kg	320/330	530/590	645/710	950/1,020
Pipe connections	Water inlet/outlet	mm	DN40	DN65	DN65	DN65
Controller			Wired controller	Wired controller	Wired controller	Wired controller
Ambient temperature range	Cooling	°C	10~46	10~46	10~46	10~46
	Heating	°C	-15~24	-15~24	-15~24	-15~24
Ambient temperature range <sup>3</sup>	Cooling	°C	-10~46	-10~46	-10~46	-10~46
	Heating	°C	-15~24	-15~24	-15~24	-15~24
Water outlet temperature range	Cooling	°C	5~17	5~17	5~17	5~17
	Heating	°C	45~50	45~50	45~50	45~50
Water outlet temperature range <sup>4</sup>	Cooling	°C	0~17	0~17	0~17	0~17
	Heating	°C	25~50	25~50	25~50	25~50

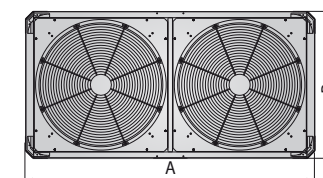
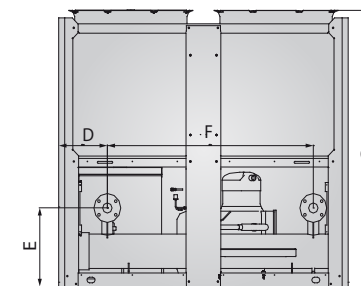
1. Cooling: Chilled water inlet/outlet temperature: 12/7°C, outdoor ambient temperature 35°C DB.
2. Heating: Warm water inlet/outlet temperature: 40/45°C, outdoor ambient temperature 7°C DB/6°C WB.
3. 1m away in open field.
4. The data is for SS-LA series.
5. The data is for low water outlet temperature function

## Dimensions (Unit:mm)

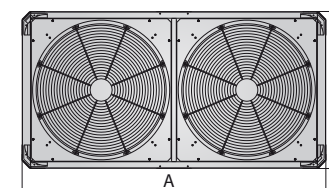
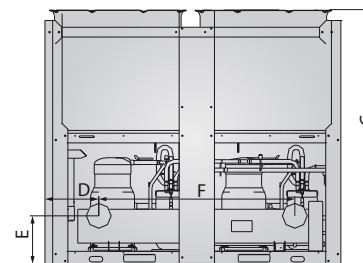
### MC-SS35/RN1(L) >>



### MC-SS65/RN1(L) and MC-SS80/RN1(L) >>



### MC-SS130/RN1(L) >>



Model	A	B	C	D	E	F
MC-SS35/RN1(L)	1020	980	1770	237	250	400
MC-SS65/RN1(L) MC-SS80/RN1(L)	2000	960	1770	336	506	1420
MC-SS130/RN1(L)	2200	1120	2060	390	347	1420