



CARYAIRE™

Total Climate and Air Management Company



MODULAR AIR-COOLED SCROLL CHILLER SYSTEM



30kW



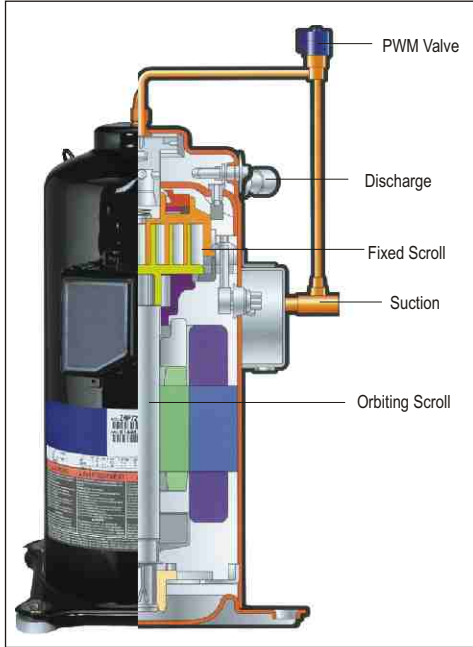
65kW

Capacity 30kW – 520kW

Features of Air Cooled Scroll Chiller

1. Digital scroll compressor

Midea uses a digital scroll compressor with every main module which is a unique patent of **COPELAND COMPANY, USA**.



Wide energy adjustment range: from 10%-100%.

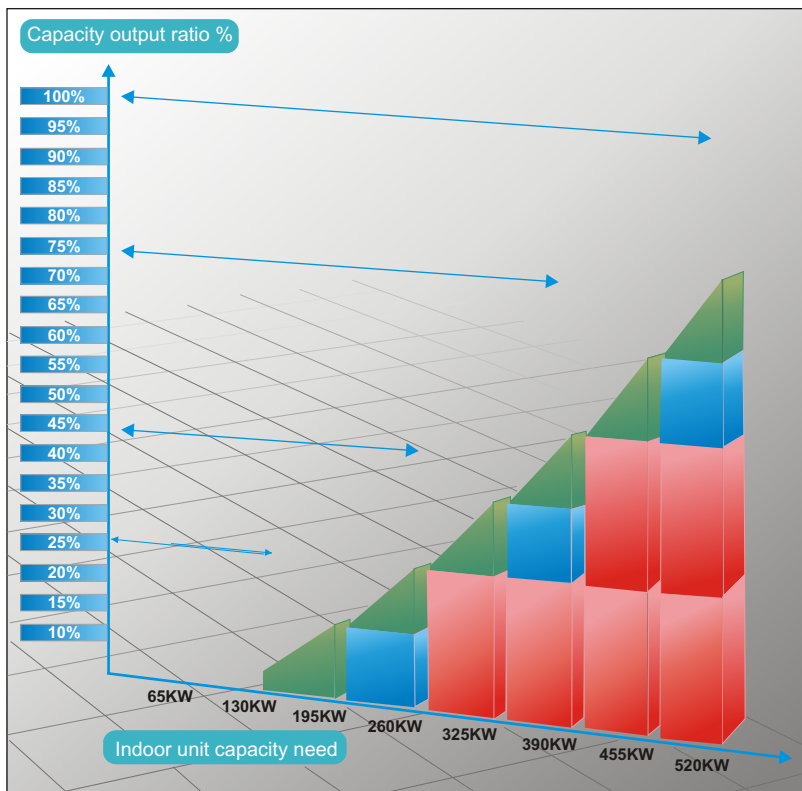
- Real stepless energy adjustment.
- Long lifespan: PWM solenoid valve can be used 40 billion times on average, equal to 30 years lifespan.
- High efficiency and stability of the refrigerant compressed by applying the axial compliant sealing technology.

3. Modular Design, easy for capacity extension



2. Flexible combination, automatic control, individual capacity supply

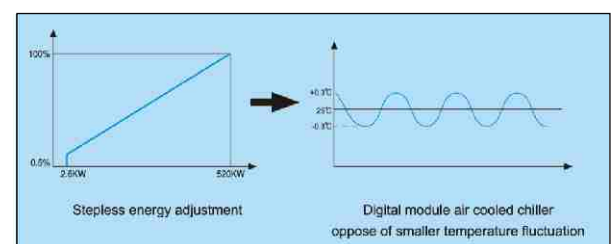
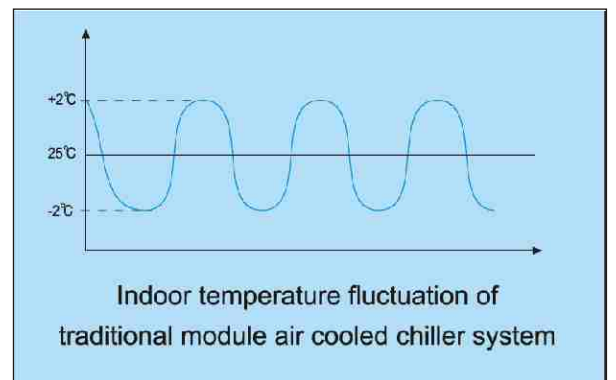
Combining the modules is as simple as connecting the water pipe and anti vibration joint between modules. The advance micro computer control system can adjust the capacity output steplessly for the whole modular system.



65kW Digital model ■ 65kW Fixed model

4. Electronic expansion valve ensures an accurate adjustment

500 step PMV electronic impulse in Digital scroll heat pump can precisely adjust the capacity output as compared to traditional air cooled chiller with thermostatic expansion valve. Based on the indoor requirement, it responds quickly and accurately, so that the capacity output is more stable.



Technical specifications

30kW MODULE

Models*		MGA-D(*) W/S (N2) or MGA-F(*) W/S (N2)							
		30	60	90	120	150	180	210	240
Main module + Auxillary module		1+0	1+1	1+2	1+3	1+4	1+5	1+6	1+7
Cooling capacity	kW	30	60	90	120	150	180	210	240
	*1000Btu/h	102.4	208.4	307.2	409.6	512	614.4	716.8	819.2
Heating capacity	kW	32	64	96	128	160	192	224	256
	*1000Btu/h	109.2	218.4	327.6	436.8	546	655.2	764.4	873.6
Power		380 V/3P/50Hz							
Safety protection device		HP/LP switch, anti-freeze, water flow switch, overload protection and power phase sequence protection.							
Compressor input (kW)		9	18	27	36	45	54	63	72
Refrigerant		Both R22 and R 407C are available.							
Dimension	L (mm)	1514							
	W (mm)	850	2300	3750	5200	6650	8100	9550	11000
	H (mm)	1820							
Total weight (kg)		440	880	1320	1760	2200	2640	3080	3520

Models*		MGA-D(*) W/S (N2) or MGA-F(*) W/S (N2)							
		270	300	330	360	390	420	450	480
Main module + Auxillary module		1+8	1+9	1+10	1+11	1+12	1+13	1+14	1+15
Cooling capacity	kW	270	300	330	360	390	420	450	480
	*1000Btu/h	921.5	1023.9	1126.3	1228.7	1331.1	1433.4	1535.8	1638.2
Heating capacity	kW	288	320	352	384	416	448	480	512
	*1000Btu/h	982.9	1092.2	1201.4	1310.6	1419.8	1529	1638.2	1747.4
Power		380 V/3P/50Hz							
Safety protection device		HP/LP switch, anti-freeze, water flow switch, overload protection and power phase sequence protection.							
Compressor input (kW)		81	90	99	108	117	126	135	144
Refrigerant		Both R22 and R 407C are available.							
Dimension	L (mm)	1514							
	W (mm)	12450	13900	15350	16800	18250	19700	21150	22600
	H (mm)	1820							
Total Weight (kg)		396	440	484	528	572	616	660	704

Notes: - Nominal capacities are based on the following conditions:
 - Chilled Water in 12°C and Chilled Water out 7°C.
 - Ambient air at 35°C.

Technical specifications

65kW MODULE

Models*		MGA-D(*) W/S (N2) or MGA-F(*) W/S (N2)							
		65	130	195	260	325	390	455	520
Main module + Auxillary module		1+0	1+1	1+2	1+3	1+4	1+5	1+6	1+7
Cooling capacity	kW	65	130	195	260	325	390	455	520
	*1000Btu/h	221.8	443.6	665.4	887.2	1109.0	1330.8	1552.6	1774.4
Heating capacity	kW	69	138	207	276	345	414	483	552
	*1000Btu/h	235.5	471	706.5	942	1177.5	1413	1648.5	1884
Power		380 V/3P/50Hz							
Safety protection device		HP/LP switch, anti-freeze, water flow switch, overload protection and power phase sequence protection.							
Compressor input (kW)		18.5	37	55.5	74	92.5	111	129.5	148
Refrigerant		Both R22 and R 407C are available.							
Dimension	L (mm)	2492							
	W (mm)	850	2300	3750	5200	650	8100	9550	11000
	H (mm)	1820							
Total weight (kg)		700	1440	2100	2800	3500	4200	4900	5600

Notes: - Nominal capacities are based on the following conditions:
 - Chilled Water in 12°C and chilled water out 7°C .
 - Ambient air at 35°C .



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