



DISCOVER
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Midea Group
Midea Building Technologies Division

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Water Cooled Screw Chiller

2025

MBT

Midea Building Technologies (MBT) is a key division of the Midea Group, a leading provider of comprehensive, intelligent-building solutions including energy sources, elevators, control systems and heating, ventilation and air conditioning.

Built on a foundation of innovation, Midea has emerged as a global leader in the HVAC and building management industry. Our unwavering dedication to research and development coupled with an extensive network of global partners has given birth to cutting-edge technologies that provide innovative solutions to our customers around the world.

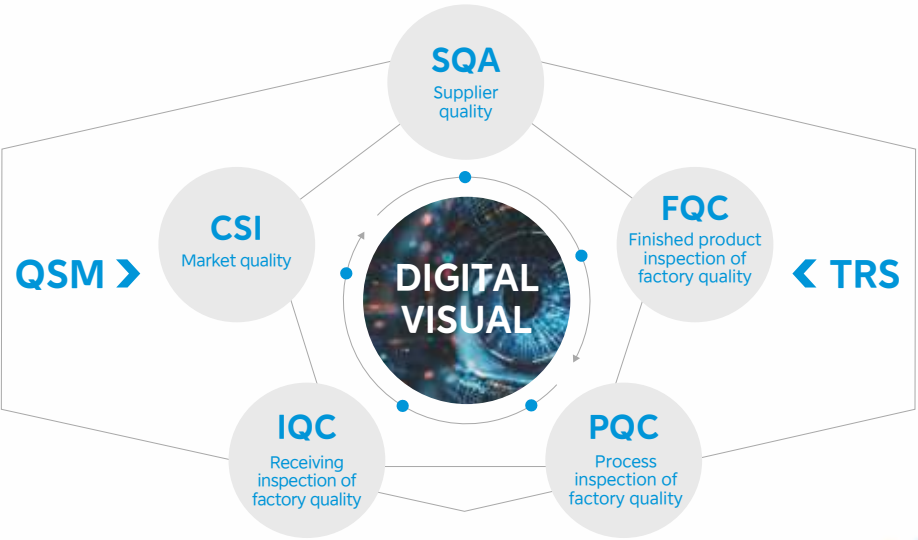
Committed to providing users with intelligent, digital, low carbon overall building solution



Over 100 testing labs cover a wide range of real application scenarios.



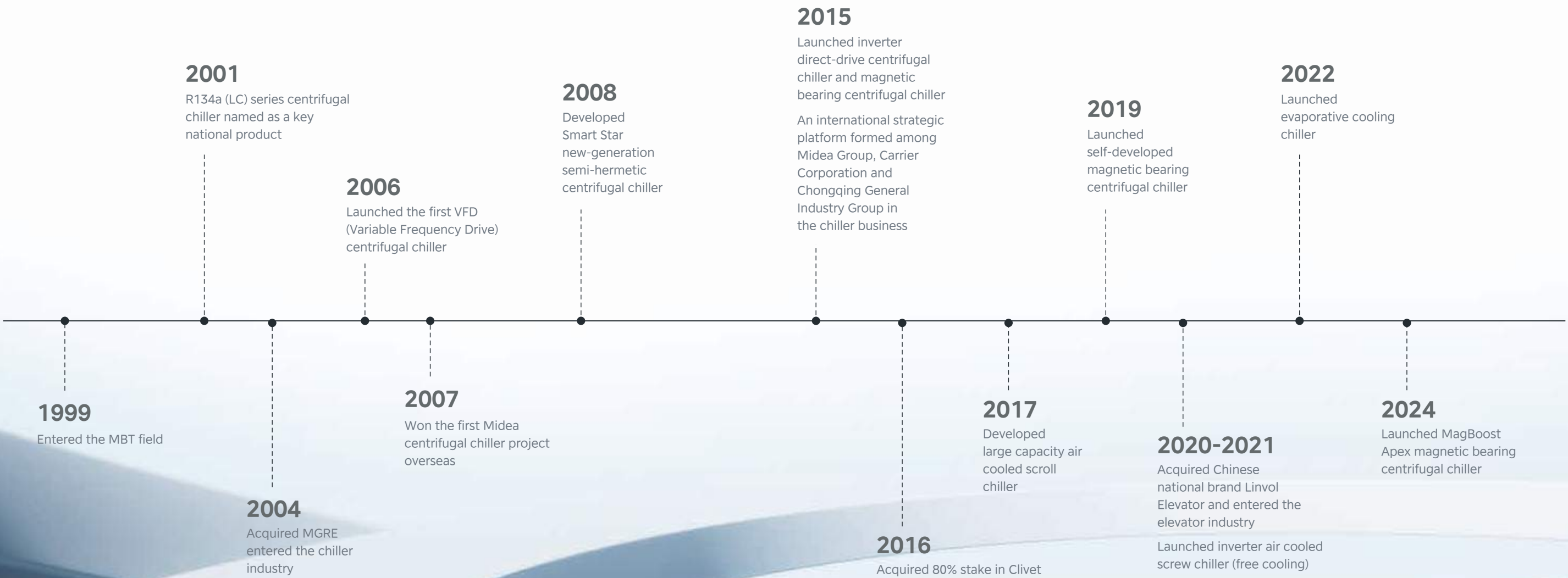
All products can be visualized and digitalized throughout entire process.



4 global manufacturing locations assure timely delivery with less sensitivity to supply chain interruption.



MIDEA LARGE TONNAGE CHILLER HISTORY



INTERNATIONAL SERVICE MANAGEMENT

Our International Service Management (ICS) system provides customers with professional technical support. Through ICS, you can download product information/documentation, get help with technical questions and troubleshooting, submit complaints and order parts using our self-service interface.

Q > <https://ics.midea.com>  



My order

Inquire about spare parts from an exploded view and place orders for spare parts directly in ICS.

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Troubleshooting

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Complain

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Feedback



Thank you for your attention and feedback

GLOBAL BULK WAREHOUSE LAYOUT OVERVIEW



Product lineup



Series Capacity(RT)	Inverter,flooded(SCWG***EV)	Flooded(SCWG***E)
90	✓	✓
100	✓	✓
110		✓
120	✓	✓
130		✓
140		
150	✓	✓
160		
170		✓
180	✓	
190		
200	✓	✓
210		
220	✓	✓
230		
240	✓	✓
250		✓
260	✓	
270		✓
280	✓	
300	✓	✓
320		✓
330	✓	
350	✓	✓
380	✓	
400	✓	✓
430	✓	
450	✓	✓
470		✓
480	✓	
500	✓	✓
550	✓	✓

Water Cooled Screw Chiller

Inverter Water Cooled Screw Chiller (SCWG***EV)
Flooded Water Cooled Screw Chiller (SCWG***E)



FEATURES

AHRI certified

All products in the series are AHRI certified.



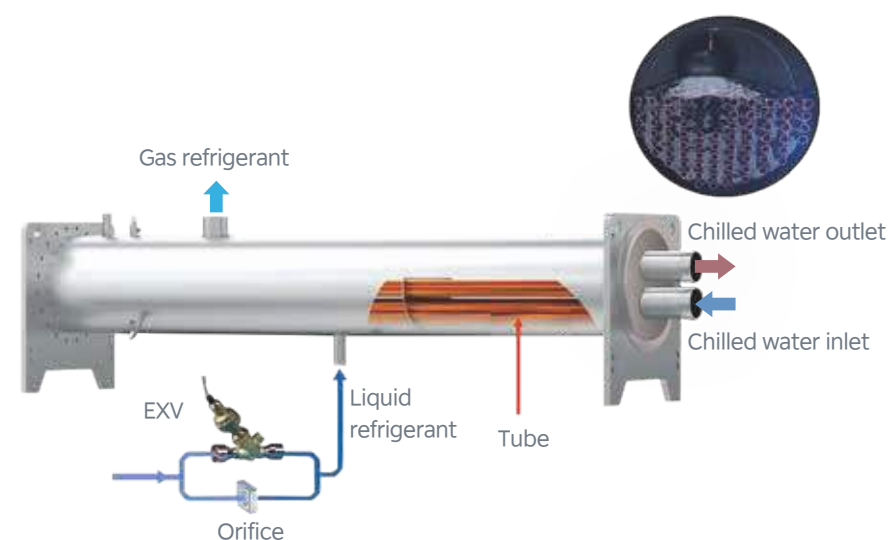
Certified in accordance with the AHRI Water-Cooled Water-Chilling and Heat Pump Water-Heating Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 500/590 (I-P) and AHRI Standard 551/591 (SI). Certified units may be found in AHRI Directory at www.ahridirectory.org

Enclosed motor design

- The motor is positioned at the compressor gas inlet and is cooled by refrigerant. A specially designed gas inlet flow path enhances this cooling effect. Since the motor does not release heat into the surrounding room, there is no need for additional ventilation.
- The compressor motor is designed for high capacity and features a direct-drive rotor to maximize efficiency.

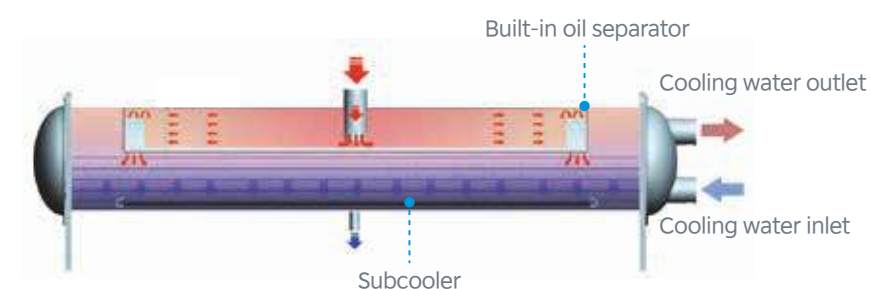
Flooded evaporator

- High-efficiency flooded evaporator delivers high heat-exchange efficiency.
- Water boxes at both ends can be disassembled to facilitate maintenance.
- Liquid distributor plate design to ensure uniform liquid distribution, improving the temperature field and evaporation temperature, thereby increasing the unit's efficiency.
- Innovative baffle plate prevents the suction of liquid into the system, enhancing the unit's reliability.



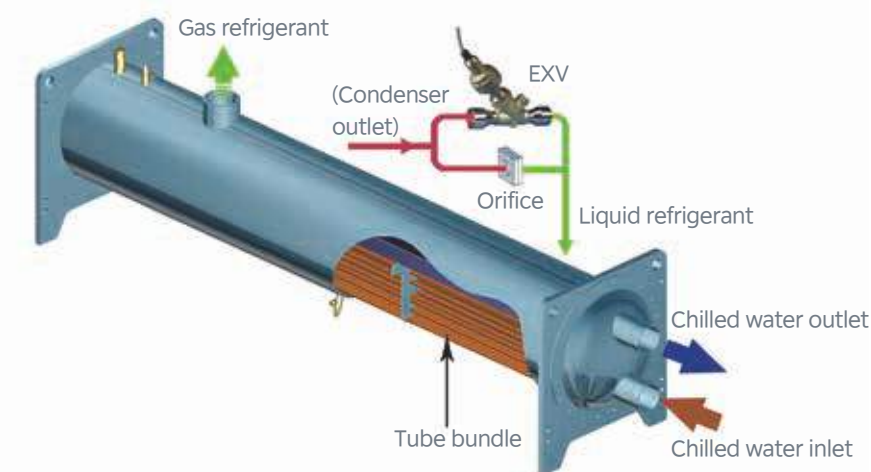
Improved condenser design

- A bundled tube configuration in the condenser is further optimized by a double-sided reinforced condenser tube.
- A specially-designed built-in oil separator effectively separates lubricating oil from the refrigerant, ensuring peak performance with higher efficiency and reduced maintenance.
- An optimized subcooler design enhances supercooling temperature while reducing refrigerant pressure loss, leading to more efficient heat exchange performance.
- The condenser can implement uniform gas transmission without any heat transmission blind spots.



Precise cooling capacity control

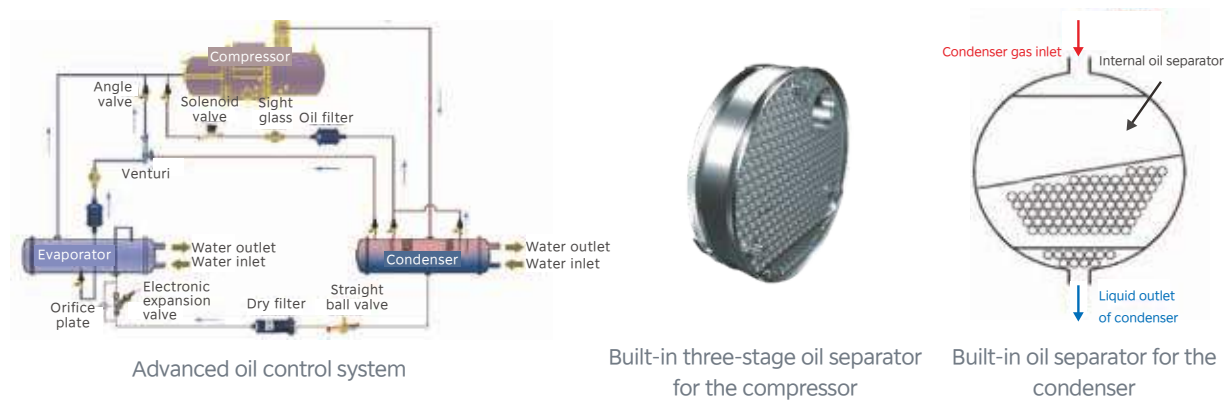
- An electronic expansion valve and orifice plate work together to enable accurate control of both the evaporator refrigerant and water temperature.
- The electronic expansion valve is designed for quick response, fast regulation, and a wide capacity adjustment range.



FEATURES

Reliable oil system

Midea water cooled screw chiller has an oil circuit control system that adopts leading technology, which ensures stable operation of the unit.



Oil supply

A differential pressure-type oil supply keeps all moving parts in the compressor well lubricated and without the need for an external oil pump.

Multiple oil separation technologies

- The compressor is equipped with a three-stage oil separator, ensuring low oil content.
- The condenser includes a built-in high efficiency oil separator. This ensures normal oil return under both partial and full loads and realizes reliable and stable operation and an extended operating range.
- A double oil return system achieves oil return through oil separation and a Venturi tube injection of high-pressure gas which efficiently keeps oil from coating the evaporator. An oil heater preheats the lubricating oil ensuring it maintains optimal viscosity according to the unit's status. The external oil filter is designed for easy replacement.

Multiple safeguards

Intelligent monitoring technology

The system continuously monitors unit parameters and changing trends and proactively adjusts operating status to ensure safe operation.

Built-in safety features

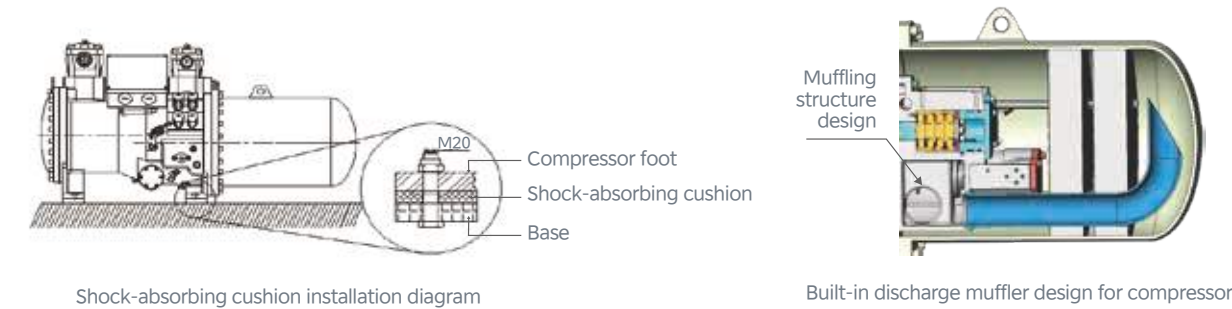
The unit is equipped with multiple protection measures designed to ensure safe and reliable operation.

Comprehensive factory testing

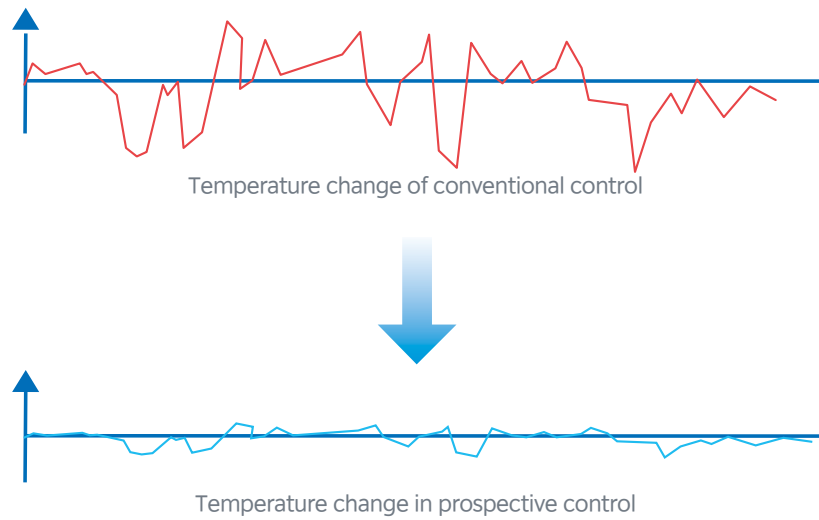
All units undergo strict testing before delivery. Only the water and power supplies need connecting during installation.

Quiet operation

- Noise levels as low as 65 dB(A) under partial loads.
- A shock-absorbing cushion between the compressor foot and the metal support provides effective damping.
- A built-in discharge muffler inhibits compressor noise.



Intelligent control



- Intelligent load control:: By predicting real-time load changes using historical data, the system automatically adjusts the load, helping to prevent frequent fluctuations in the unit's water temperature.
- Intelligent safety monitoring: The system monitors unit parameters, detects trends and automatically adjusts operating status to ensure safe operation.
- Intelligent failure response: Unit failure automatically triggers protective measures and records fault data to aid manual inspection and troubleshooting.

FEATURES

Interface display

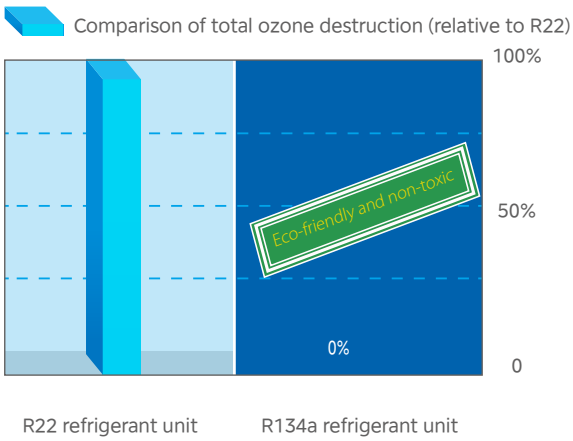
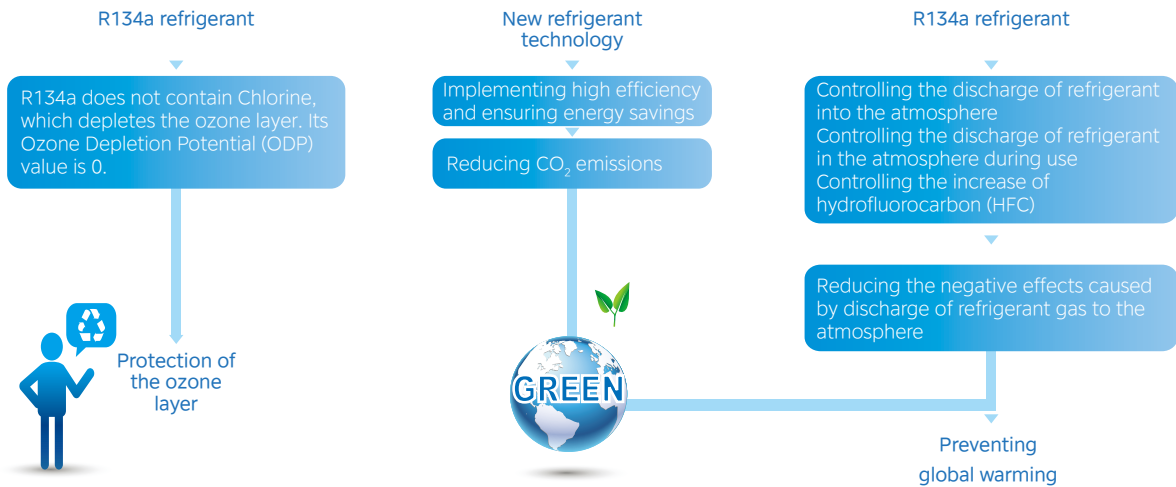
Controller	MIC
Interface display	7-inch touch screen
Communication interface	RS485
Communication protocol	Modbus-RTU
Protection measures	More than 20 protection measures safeguarding the power supply, compressor, pressure and temperature.



Note: The interface and display content vary with each model. Please refer to the actual product.

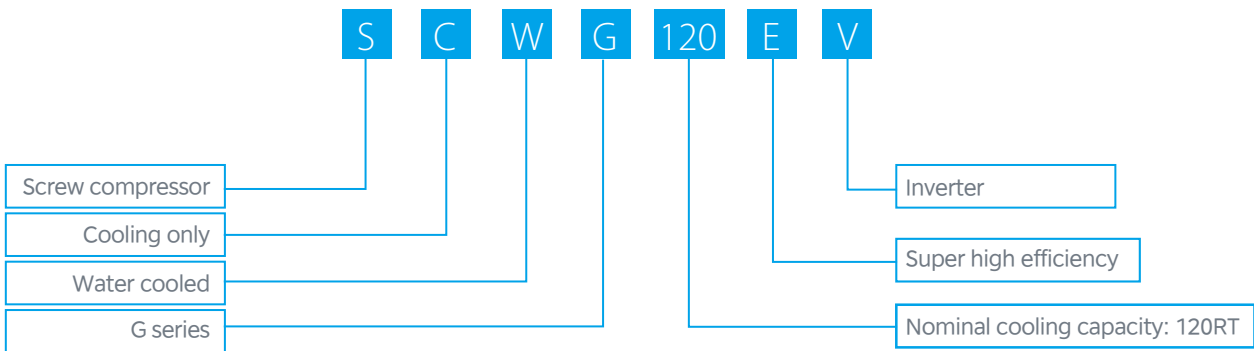
Eco-friendly refrigerant

R134a eco-friendly refrigerant achieves high cooling efficiency, without depleting the ozone layer. This refrigerant complies with the Montreal Protocol.

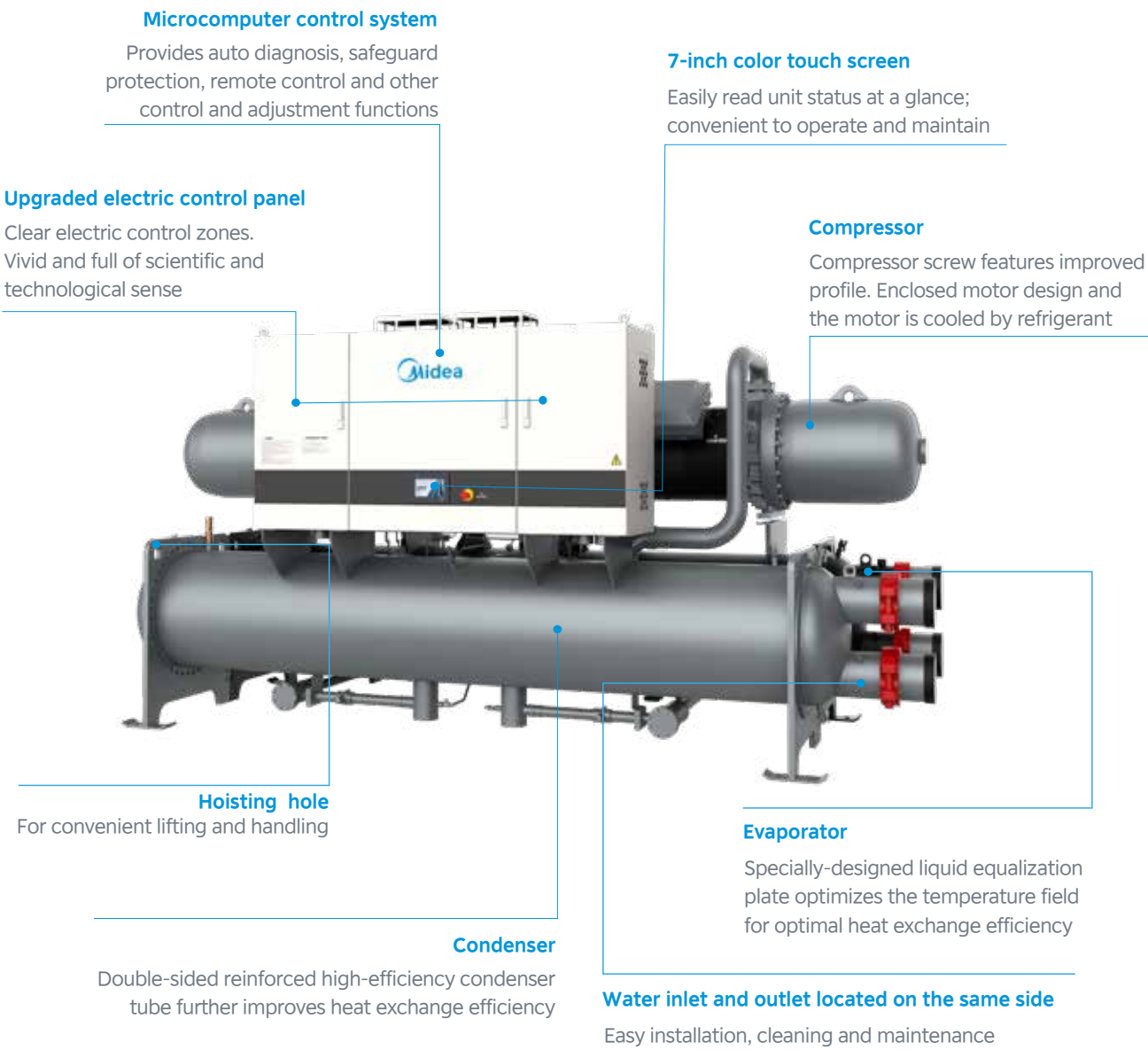


Inverter Water Cooled Screw Chiller (SCWG***EV)

Nomenclature

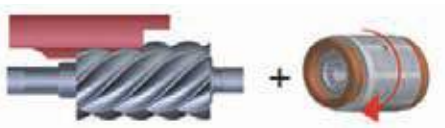


Key components



Vi optimizing inverter technology

Volume-ratio optimization technology integrates the characteristic curves of the compressor, inverter and motor, maximizing performance and reliability. The isentropic efficiency of the compressor is up to 76%, which is much higher than other adjustment methods.



Start During low-speed motor start up, the slide valve rapidly rises to the middle position and the unit does not operate at the low slide valve position.



Loading As the motor speed increases, the slide valve searches for the optimal Vi position. A built-in algorithm analyzes operating parameters, adjusting the slide valve position and the motor speed to their optimal positions, lifting the slide valve first. This allows the system to precisely match the motor speed to the load.



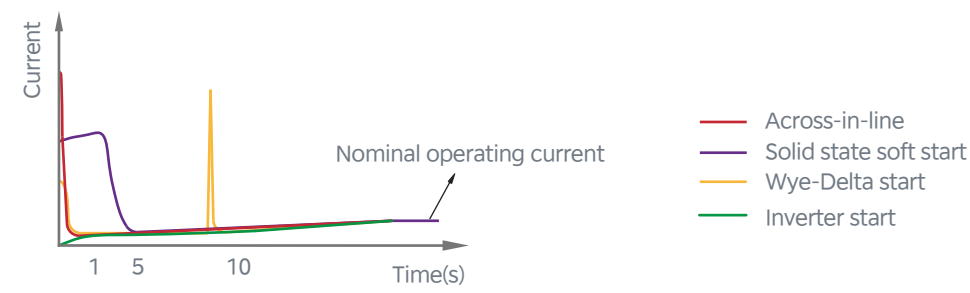
Load reduction The motor slows as the slide valve searches for the optimal Vi position. A built-in algorithm then analyzes the operating parameters online, adjusting the slide valve position and motor speed to their optimal positions, lowering the slide valve first. This enables the slide valve to assist in energy regulation.



Stop The motor slows and the slide valve drops to the lowest position. The motor stops after its speed reaches the lowest setting.

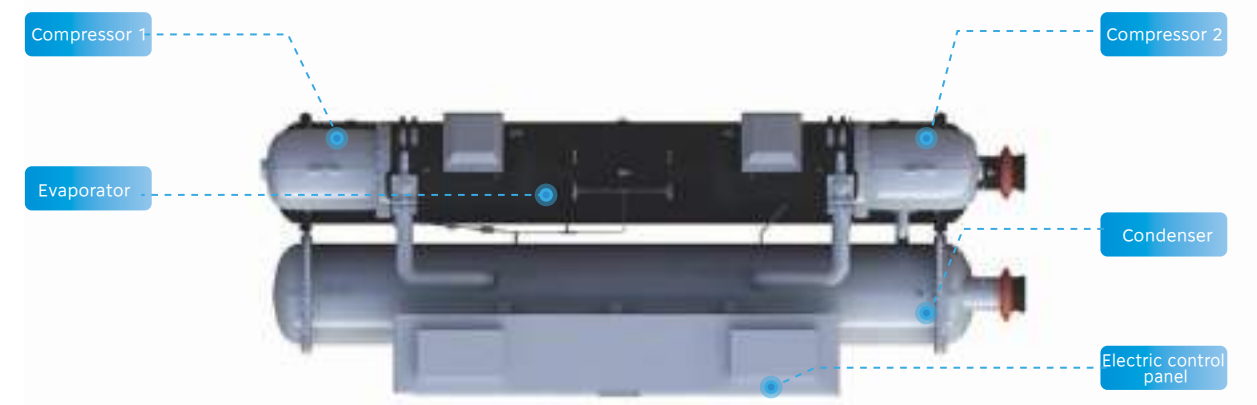
No impact of the power grid

Inverter start-up with a smooth starting current of less than the Wye-Delta starting method. Without current impact and prolonging the motor's service life.



Parallel dual-compressor design

The chiller system features a unique design where two compressors operate in parallel. When only one compressor is running, it can utilize the entire heat exchanger, significantly enhancing operational efficiency. (Non parallel system can be customized, providing flexibility for specific configuration needs)



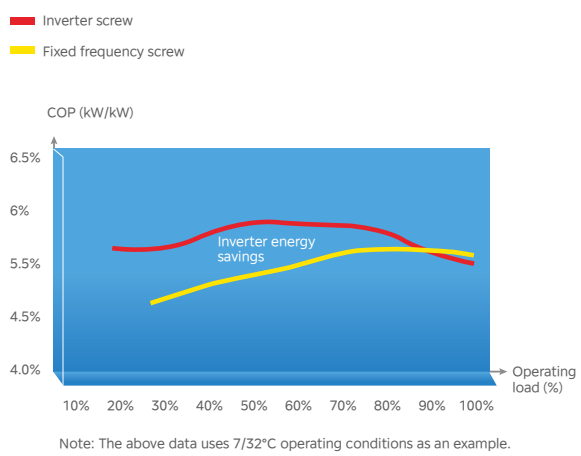
Innovative swirl orifice Plate throttling Technology

- A unique orifice plate increases flow resistance when refrigerant gas content is high, minimizing cooling capacity loss due to hot gas bypass under partial loads.
- When the condensing pressure is low and the refrigerant is liquid, the orifice plate accelerates flow rate, enhancing liquid supply and improving efficiency.



Energy-efficient Inverter control

The inverter screw unit regulates cooling capacity by reducing the motor frequency, which improves the COP under partial loads compared to fixed frequency units, greatly enhancing energy efficiency.



Specifications

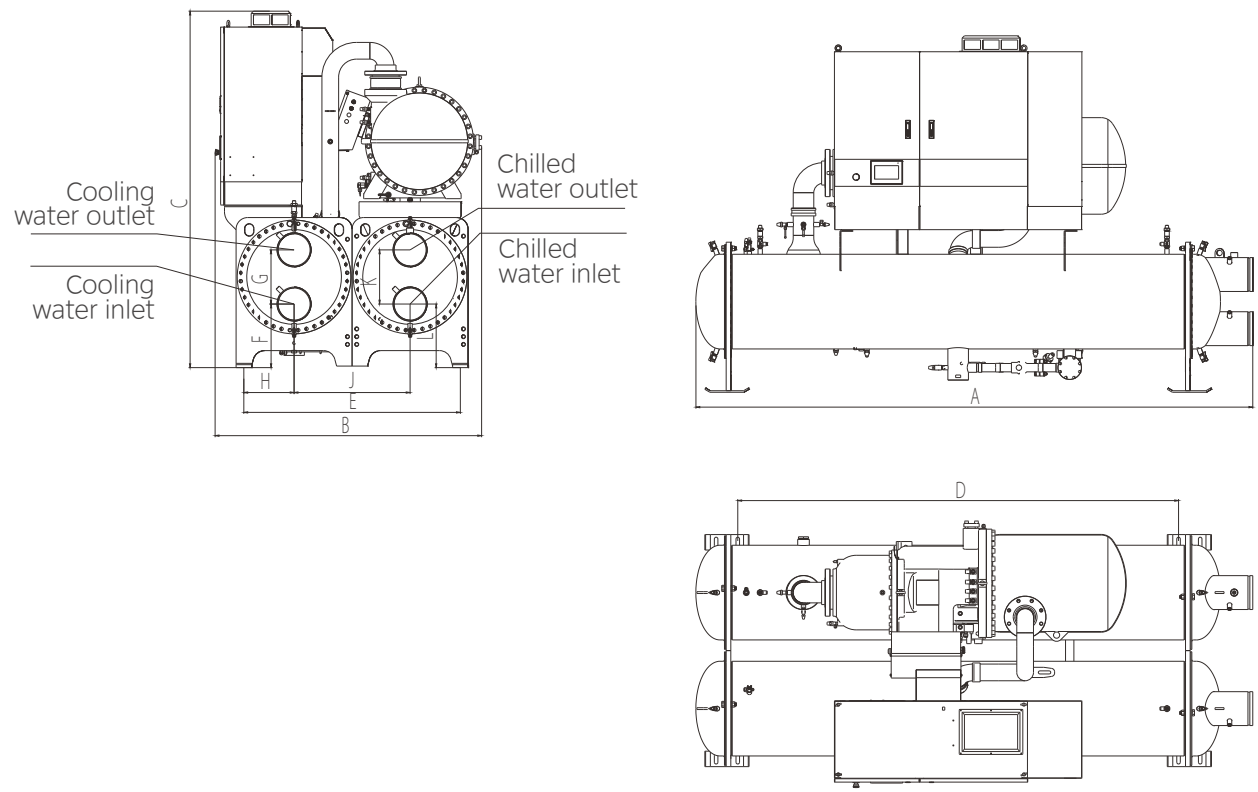
Model	SCWG	90EV	100EV	120EV	150EV	180EV	200EV	220EV	240EV	260EV	280EV
Cooling capacity	RT	90.0	100.0	119.6	150.0	180.0	200.0	220.0	235.2	260.0	280.0
	kW	316.4	351.6	420.6	527.4	632.9	703.2	773.5	826.9	914.2	984.5
Power input	kW	54.97	61.47	73.62	89.89	106.7	117.4	128.4	137.6	151.8	162.3
COP	W/W	5.75	5.72	5.71	5.86	5.93	5.98	6.02	6.00	6.02	6.06
IPLV	W/W	8.49	8.74	8.98	8.71	9.01	8.82	9.17	9.25	9.34	9.10
Compressor	Qty	1	1	1	1	1	1	1	1	1	1
	Type	Semi-hermetic screw compressor									
	Starting method	Inverter									
Capacity adjustment range		Single compressor 30%-100%, dual compressor 15%-100%									
Refrigerant	Type	/	R134a								
	Charge amount	kg	150	150	150	150	195	205	275	275	285
Power supply		380V-3N-50Hz									
Rated current	A	89.8	100.4	120.3	146.9	174.3	191.8	209.8	224.9	248.0	265.1
Starting current	A	< 89.8	< 100.4	< 120.3	< 146.9	< 174.3	< 191.8	< 209.8	< 224.9	< 248.0	< 265.1
Max. operating current	A	136.7	133.6	160.4	224.2	237.5	286.0	294.5	315.0	345.9	370.1
Evaporator	Water flow	m³/h	48.89	54.32	64.98	81.48	97.78	108.6	119.5	127.8	152.1
	Pressure drop	kPa	58.9	63.1	48.5	55.5	53.8	53.5	54.7	56.2	64.2
	Water pipe connection	mm	DN125	DN125	DN150	DN150	DN150	DN150	DN200	DN200	DN200
Condenser	Water flow	m³/h	61.47	68.36	81.79	102.2	122.4	135.9	149.3	159.7	189.9
	Pressure drop	kPa	52.5	50.7	49.3	54.9	57.6	61.3	58.1	60.3	64.4
	Water pipe connection	mm	DN125	DN125	DN150	DN150	DN150	DN150	DN200	DN200	DN200
Unit dimensions	Length	mm	3513	3513	3513	3513	3538	3538	3601	3601	3601
	Width	mm	1370	1424	1424	1370	1591	1540	1645	1645	1723
	Height	mm	1966	1966	1966	1966	2066	2066	2281	2281	2281
Running weight	kg	2767	2567	2664	3382	3555	3927	4700	4744	4838	5019
Shipping weight	kg	2597	2397	2454	3152	3245	3597	4330	4354	4428	4599

Model	SCWG	300EV	330EV	350EV	380EV	400EV	430EV	450EV	480EV	500EV	550EV
Cooling capacity	RT	300.1	329.4	350.1	380.0	399.9	430.0	449.9	479.8	500.0	544.9
	kW	1055	1158	1231	1336	1406	1512	1582	1687	1758	1916
Power input	kW	171.9	192.2	205.2	229.0	233.8	255.4	258.7	275.4	288.6	303.2
COP	W/W	6.13	6.02	5.99	5.83	6.01	5.91	6.11	6.12	6.09	6.32
IPLV	W/W	9.23	9.33	9.35	9.25	9.28	9.36	9.70	9.70	9.71	9.90
Compressor	Qty	1	1	2	2	2	2	2	2	2	2
	Type	Semi-hermetic screw compressor									
	Starting method	Inverter									
Capacity adjustment range		Single compressor 30%-100%, dual compressor 15%-100%									
Refrigerant	Type	/	R134a								
	Charge amount	kg	325	325	375	380	380	380	390	395	465
Power supply		380V-3N-50Hz									
Rated current	A	280.8	313.9	1#145.8	1#162.6	1#191.0	1#208.6	1#211.3	1#225.0	1#235.8	1#247.6
				2#189.5	2#211.4	2#191.0	2#208.6	2#211.3	2#225.0	2#235.8	2#247.6
Starting current	A	< 280.8	< 313.9	1# < 145.8	1# < 162.6	1# < 191.0	1# < 208.6	1# < 211.3	1# < 225.0	1# < 235.8	1# < 247.6
				2# < 189.5	2# < 211.4	2# < 191.0	2# < 208.6	2# < 211.3	2# < 225.0	2# < 235.8	2# < 247.6
Max. operating current	A	392.8	438.3	1#236.0	1#236.0	1#282.0	1#282.0	1#296.9	1#316.0	1#331.1	1#351.5
				2#282.0	2#282.0	2#282.0	2#282.0	2#296.9	2#316.0	2#331.1	2#351.5
Evaporator	Water flow	m³/h	163.0	178.9	190.2	206.4	217.2	233.6	244.4	260.6	271.6
	Pressure drop	kPa	55.5	55.3	73.4	80.8	88.5	86.0	78.5	77.1	73.4
	Water pipe connection	mm	DN200	DN200	DN200	DN200	DN200	DN200	DN200	DN250	DN250
Condenser	Water flow	m³/h	203.2	223.6	237.8	259.1	271.5	292.6	304.8	325.0	338.9
	Pressure drop	kPa	58.6	59.9	78.9	91.9	92.9	95.0	93.3	92.5	94.0
	Water pipe connection	mm	DN200	DN200	DN200	DN200	DN200	DN200	DN200	DN250	DN250
Unit dimensions	Length	mm	3613	3613	4518	4518	4518	4518	4720	4720	4784
	Width	mm	1828	1828	1727	1727	1727	1727	1797	1797	1947
	Height	mm	2346	2346	2196	2196	2196	2196	2441	2441	2491
Running weight	kg	5444	5530	6587	6601	6727	6815	7185	7303	7759	8464
Shipping weight	kg	4944	5010	6027	6041	6157	6215	6555	6643	7029	7614

Notes:
1. Performance and efficiency are based on AHRI 550/590-2018.
Evaporator conditions: water inlet=54°F(12.22°C), water outlet=44°F(6.67°C), fouling factor=0.00010h·ft² ·°F/Btu(0.0176m². °C/kW);
Condenser conditions: water inlet=85°F (29.44°C), water outlet=94.3°F (34.61°C), fouling factor=0.00025h·ft²·°F/Btu (0.0440m². °C/kW).
2. The max working pressure for both the evaporator and condenser are 1.0MPa, can be customized for higher pressure if required.
3. As a result of the continuous improvement of the product, the above parameters may be changed. Please refer to the software selection and the actual product.

Dimensions

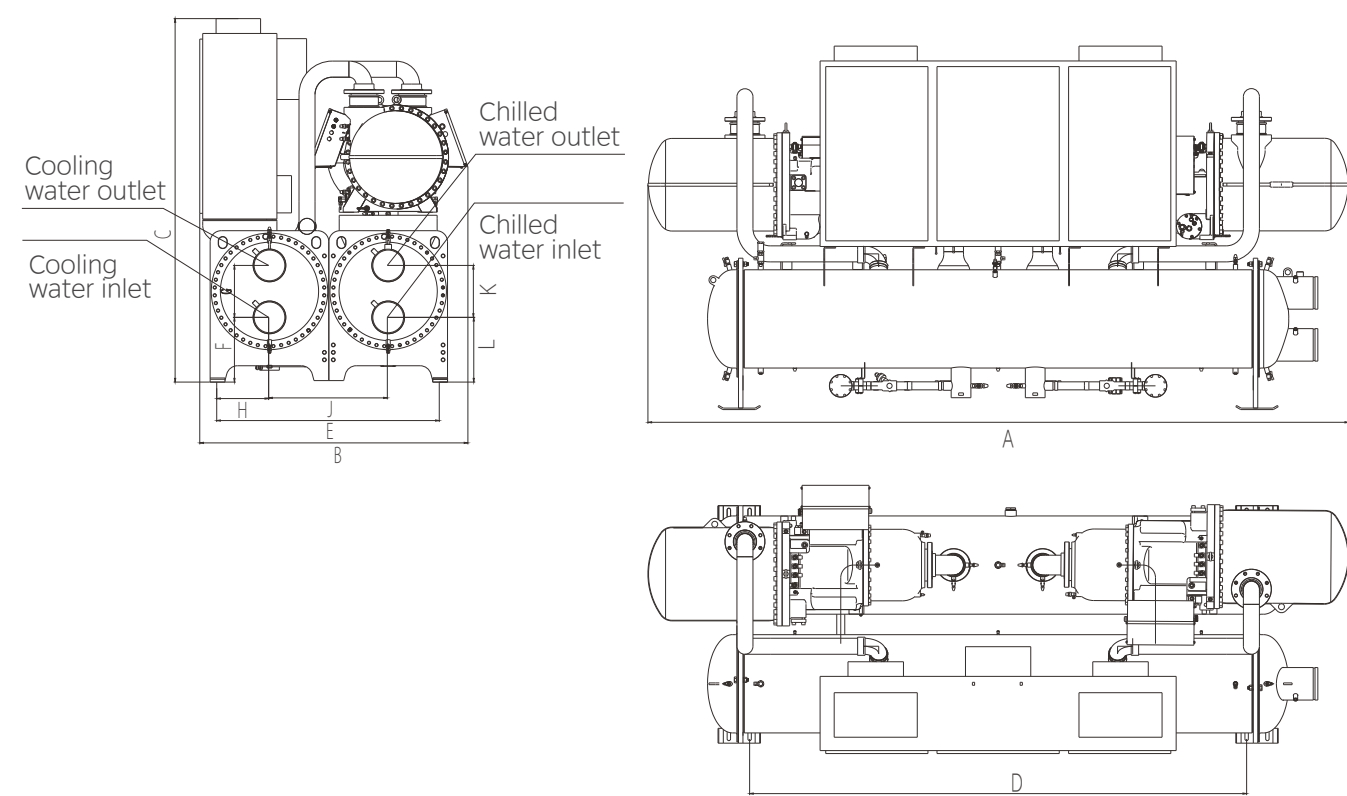
Single compressor



Model	Dimensions			Support		Pipe location							
	Length (A)	Width (B)	Height (C)	D	E	F	G	H	J	K	L	Evaporator pipe diameter	Condenser pipe diameter
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		
SCWG90EV	3513	1370	1966	2850	1100	381	260	250	600	260	381	DN125	DN125
SCWG100EV	3513	1424	1966	2850	1100	381	260	250	600	260	381	DN125	DN125
SCWG120EV	3513	1424	1966	2850	1100	381	260	250	600	260	381	DN150	DN150
SCWG150EV	3513	1370	1966	2850	1100	381	260	250	600	260	381	DN150	DN150
SCWG180EV	3538	1591	2066	2850	1300	411	300	300	700	300	411	DN150	DN150
SCWG200EV	3538	1540	2066	2850	1300	411	300	300	700	300	411	DN150	DN150
SCWG220EV	3601	1645	2281	2850	1400	411	350	325	750	350	411	DN200	DN200
SCWG240EV	3601	1645	2281	2850	1400	411	350	325	750	350	411	DN200	DN200
SCWG260EV	3601	1723	2281	2850	1400	411	350	325	750	350	411	DN200	DN200
SCWG280EV	3601	1753	2281	2850	1400	411	350	325	750	350	411	DN200	DN200
SCWG300EV	3613	1828	2346	2850	1500	436	350	350	800	350	436	DN200	DN200
SCWG330EV	3613	1828	2346	2850	1500	436	350	350	800	350	436	DN200	DN200

Dimensions

Dual compressor



Model	Dimensions			Support		Pipe location						Evaporator pipe diameter	Condenser pipe diameter
	Length (A)	Width (B)	Height (C)	D	E	F	G	H	J	K	L		
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		
SCWG350EV	4518	1727	2196	3350	1500	436	350	350	800	350	436	DN200	DN200
SCWG380EV	4518	1727	2196	3350	1500	436	350	350	800	350	436	DN200	DN200
SCWG400EV	4518	1727	2196	3350	1500	436	350	350	800	350	436	DN200	DN200
SCWG430EV	4518	1727	2196	3350	1500	436	350	350	800	350	436	DN200	DN200
SCWG450EV	4720	1797	2441	3350	1500	436	350	350	800	350	436	DN200	DN200
SCWG480EV	4720	1797	2441	3350	1500	436	350	350	800	350	436	DN200	DN200
SCWG500EV	4720	1947	2491	3350	1700	389	445	400	900	445	389	DN250	DN250
SCWG550EV	4784	1962	2491	3850	1700	389	445	400	900	445	389	DN250	DN250

Space layout



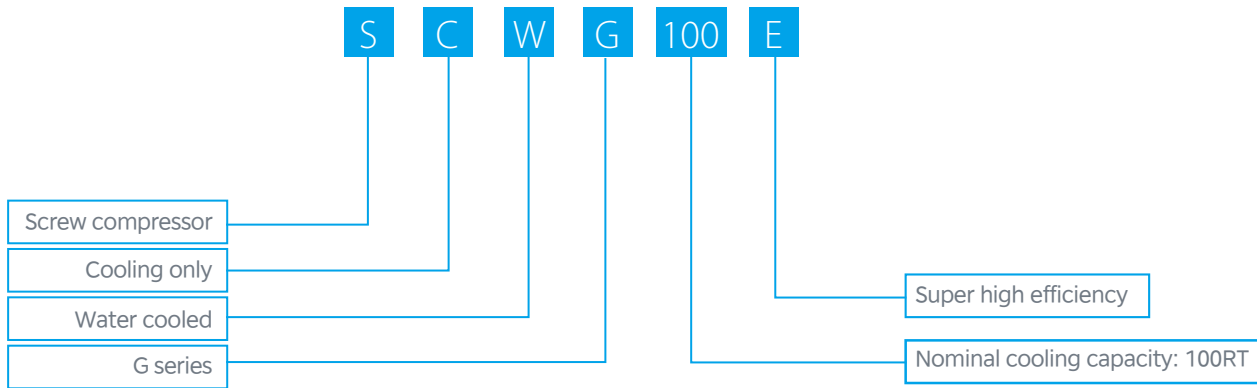
Unit: mm

Model	S	T	Z	Y
SCWG90EV~SCWG330EV	600	600	3200	1000
SCWG350EV~SCWG550EV	600	600	4200	1000

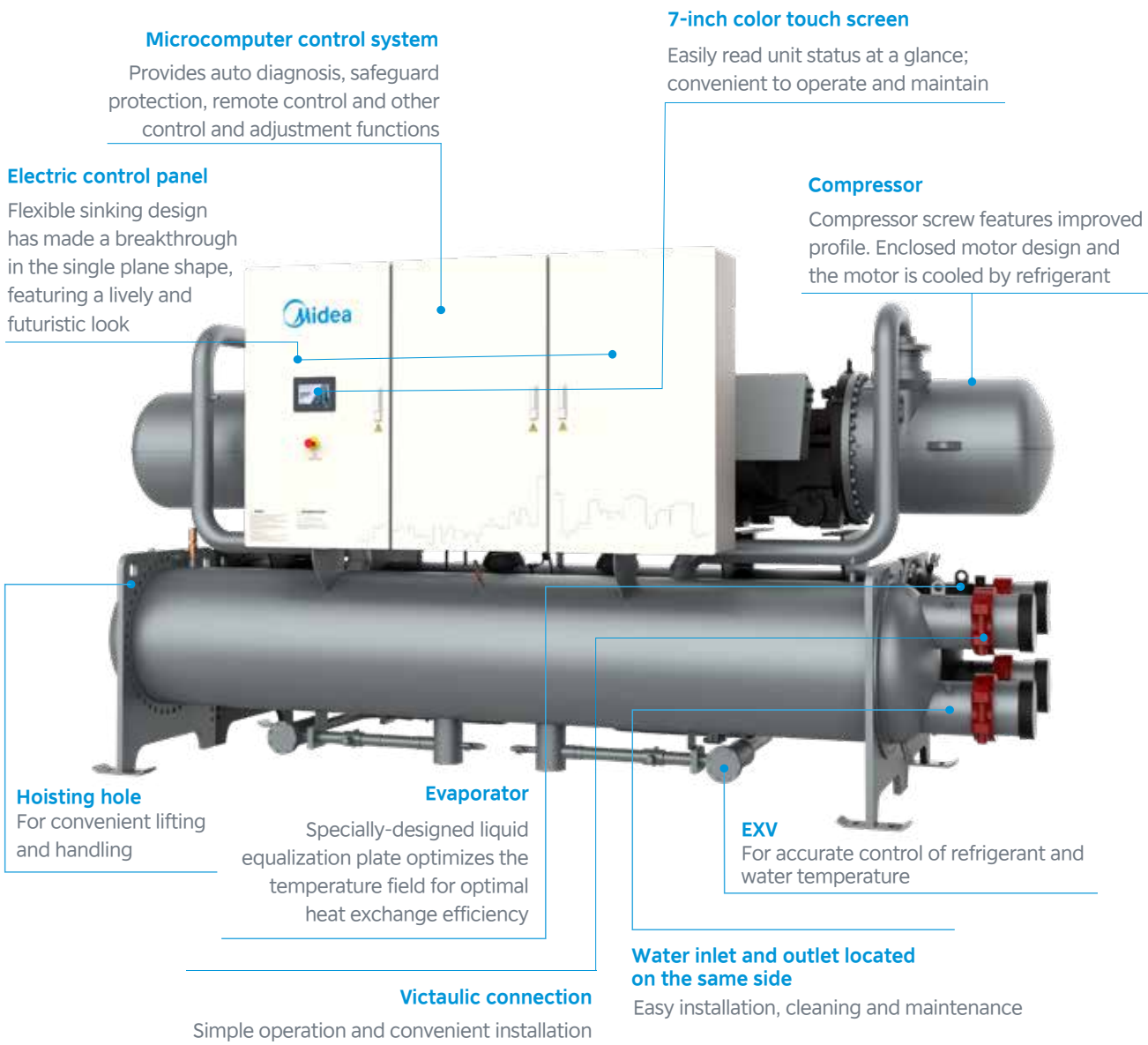
Z: Tube removal space for either end.

Flooded Water Cooled Screw Chiller (SCWG***E)

Nomenclature



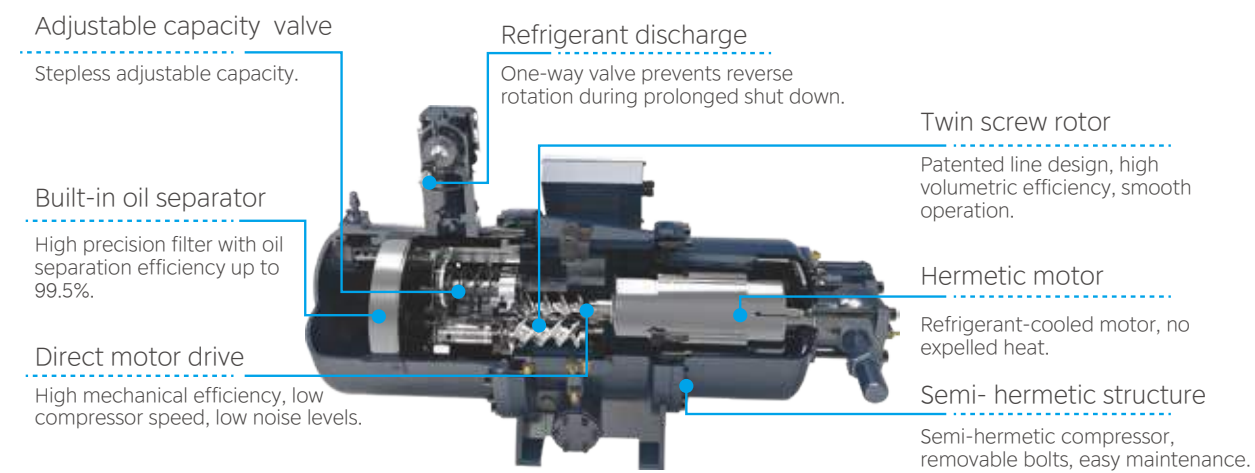
Key components



FEATURES

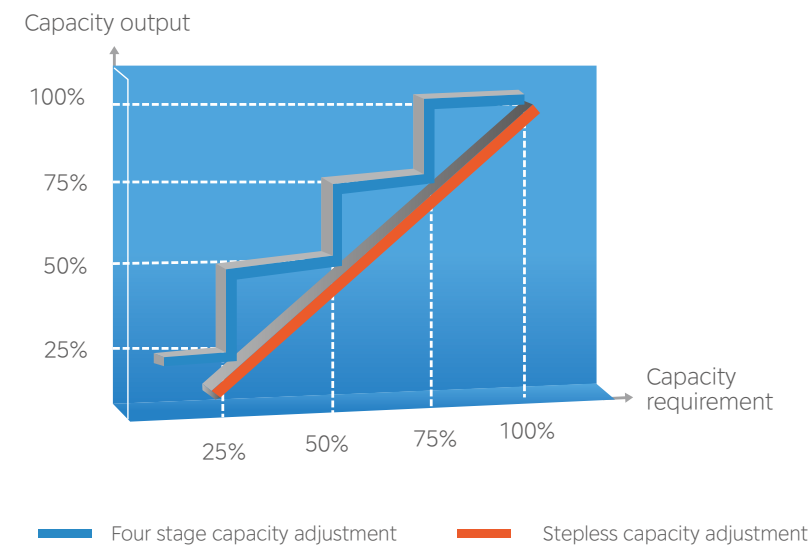
Advanced twin-rotor screw compressor

- The semi-hermetic twin-rotor screw compressor offers advantages such as reduced refrigerant leakage, higher transmission efficiency, and no heat dissipation in the equipment room, compared to open-structure compressors.
- Screw rotor features an innovative profile design which optimizes the compression process to ensure excellent volumetric efficiency and low leakage. The twin-screw rotor also utilizes a five-teeth to six-teeth asymmetric design with machining accuracy down to micron levels which helps ensure stable operation.
- Large capacity motor is designed for high efficiency with optimal gas passage and clearance inside the motor. Refrigerant is positioned around the motor perimeter to ensure complete cooling.
- The compressor includes bearings produced by renowned manufacturer SKF, ensuring a long service life and continuous run time up to 50000h.



Stepless capacity adjustment

Capacity adjustment system consists of capacity adjustment slide valve, solenoid valve and oil pressure piston.



Specifications

Model	SCWG	90E	100E	110E	120E	130E	150E	170E	200E	220E	240E
Cooling capacity	RT	87.26	94.45	107.2	119.3	129.6	146.9	169.4	195.6	214.2	236.2
	kW	306.8	332.1	376.8	419.3	455.8	516.5	595.6	687.8	753.2	830.6
Power input	kW	52.69	57.33	65.30	72.07	78.25	87.04	99.51	115.3	124.9	137.7
COP	W/W	5.82	5.79	5.77	5.81	5.82	5.93	5.98	5.96	6.03	6.03
IPLV	W/W	7.46	7.88	7.83	7.14	7.37	7.11	7.63	7.78	8.61	8.66
Compressor	Qty	1	1	1	1	1	1	1	1	1	1
	Type	Semi-hermetic screw compressor									
	Starting method	Wye-Delta									
Capacity adjustment range		Stepless, single compressor 30%-100%, dual compressor 15%-100%									
Refrigerant	Type	/	R134a								
	Charge amount	kg	150	150	150	150	150	195	205	275	275
Power supply		380V-3N-50Hz									
Rated current	A	91.00	99.00	112.7	1124.4	135.1	150.3	171.8	199.1	215.6	237.7
Max. operating current	A	136.6	154.6	176.9	169.0	208.0	205.6	260.0	301.0	335.0	369.0
Starting current	A	258.0	315.0	378.0	291.7	415.0	446.7	506.0	650.0	518.0	560.0
Evaporator	Water flow	m³/h	47.39	51.31	58.21	64.78	70.42	79.80	92.02	106.3	128.3
	Pressure drop	kPa	55.7	57.0	47.4	48.2	55.9	53.4	54.5	51.5	50.8
	Water pipe connection	mm	DN125	DN125	DN125	DN150	DN150	DN150	DN150	DN150	DN200
Condenser	Water flow	m³/h	59.50	64.45	73.17	81.33	88.40	99.92	115.1	133.0	145.4
	Pressure drop	kPa	49.6	45.6	48.6	48.8	48.0	52.8	58.9	59.0	55.3
	Water pipe connection	mm	DN125	DN125	DN125	DN150	DN150	DN150	DN150	DN150	DN200
Unit dimensions	Length	mm	3513	3513	3513	3513	3513	3513	3538	3538	3601
	Width	mm	1200	1200	1200	1215	1200	1200	1400	1400	1560
	Height	mm	1690	1690	1690	1829	1821	1953	1933	1933	2109
Running weight	kg	2677	2707	2769	2664	3236	3017	3735	3862	4330	4414
Shipping weight	kg	2507	2537	2579	2454	3026	2787	3445	3532	3960	4024

Notes:
1. Performance and efficiency are based on AHRI 550/590-2018.
Evaporator conditions: water inlet=54°F(12.22°C), water outlet=44°F(6.67°C), fouling factor=0.00010h·ft²·°F/Btu(0.0176m²·°C/kW);
Condenser conditions: water inlet=85°F (29.44°C), water outlet=94.3°F (34.61°C), fouling factor=0.00025h·ft²·°F/Btu (0.0440m²·°C/kW).
2. The max working pressure for both the evaporator and condenser are 1.0MPa, can be customized for higher pressure if required.
3. As a result of the continuous improvement of the product, the above parameters may be changed. Please refer to the software selection and the actual product.

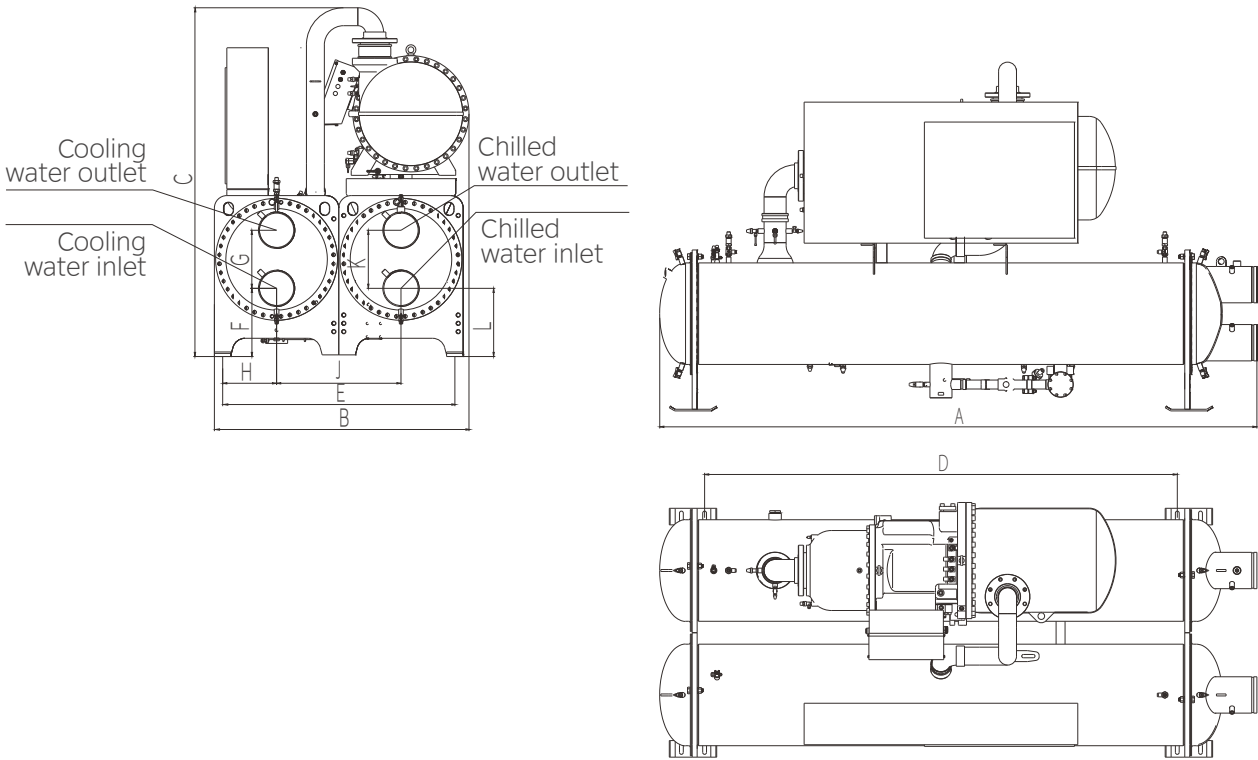
Specifications

Model		SCWG	250E	270E	300E	320E	350E	400E	450E	470E	500E	550E
Cooling capacity	RT		245.9	270.7	292.0	319.3	348.5	391.3	440.5	467.3	493.9	548.6
	kW		864.5	951.7	1027	1123	1225	1376	1549	1643	1737	1929
Power input	kW		148.4	154.5	171.8	187.2	205.1	228.0	252.7	267.2	279.9	309.3
COP	W/W		5.82	6.16	5.97	5.99	5.97	6.03	6.13	6.14	6.20	6.23
IPLV	W/W		6.84	8.62	7.27	7.05	8.08	8.26	9.30	9.32	9.33	9.13
Compressor	Qty		1	1	1	1	2	2	2	2	2	2
	Type	Semi-hermetic screw compressor										
	Starting method	Wye-Delta										
Capacity adjustment range		Stepless, single compressor 30%-100%, dual compressor 15%-100%										
Refrigerant	Type	/	R134a									
	Charge amount	kg	280	280	325	325	375	380	390	395	465	540
Power supply		380V-3N-50Hz										
Rated current	A		256.3	266.7	296.6	323.2	1#154.0 2#200.2	1#196.8 2#196.8	1#218.1 2#218.1	1#220.2 2#241.2	1#241.6 2#241.6	1#267.0 2#267.0
Max. operating current	A		362.8	400.0	396.8	459.4	1#235.0 2#301.0	1#301.0 2#301.0	1#335.0 2#335.0	1#335.0 2#369.0	1#369.0 2#369.0	1#400.0 2#400.0
Starting current	A		663.3	583.3	785.0	785.0	1#479.0 2#650.0	1#650.0 2#650.0	1#518.0 2#518.0	1#518.0 2#560.0	1#560.0 2#560.0	1#583.3 2#583.3
Evaporator	Water flow	m³/h	133.6	147.0	158.6	173.4	189.3	212.5	239.3	253.9	268.3	298.0
	Pressure drop	kPa	54.2	64.4	52.8	52.3	72.8	85.1	75.6	73.6	71.8	83.0
	Water pipe connection	mm	DN200	DN200	DN200	DN200	DN200	DN200	DN200	DN200	DN250	DN250
Condenser	Water flow	m³/h	167.7	183.2	198.4	216.9	236.8	265.5	298.3	316.4	334.0	370.7
	Pressure drop	kPa	51.6	60.4	56.2	56.8	76.0	89.3	89.8	88.2	91.6	101.0
	Water pipe connection	mm	DN200	DN200	DN200	DN200	DN200	DN200	DN200	DN200	DN250	DN250
Unit dimensions	Length	mm	3601	3601	3613	3613	4518	4518	4720	4752	4784	4874
	Width	mm	1520	1618	1628	1628	1617	1617	1737	1737	1902	1921
	Height	mm	2178	2150	2291	2291	2291	2291	2291	2291	2341	2341
Running weight	kg		4403	2985	5404	5600	6484	6627	6985	7143	7619	8632
Shipping weight	kg		3993	2575	4904	5080	5924	6057	6355	6483	6889	7772

Notes:
1. Performance and efficiency are based on AHRI 550/590-2018.
Evaporator conditions: water inlet=54°F(12.22°C), water outlet=44°F(6.67°C), fouling factor=0.00010h·ft²·°F/Btu(0.0176m²·°C/kW);
Condenser conditions: water inlet=85°F (29.44°C), water outlet=94.3°F (34.61°C), fouling factor=0.00025h·ft²·°F/Btu (0.0440m²·°C/kW).
2. The max working pressure for both the evaporator and condenser are 1.0MPa, can be customized for higher pressure if required.
3. As a result of the continuous improvement of the product, the above parameters may be changed. Please refer to the software selection and the actual product.

Dimensions

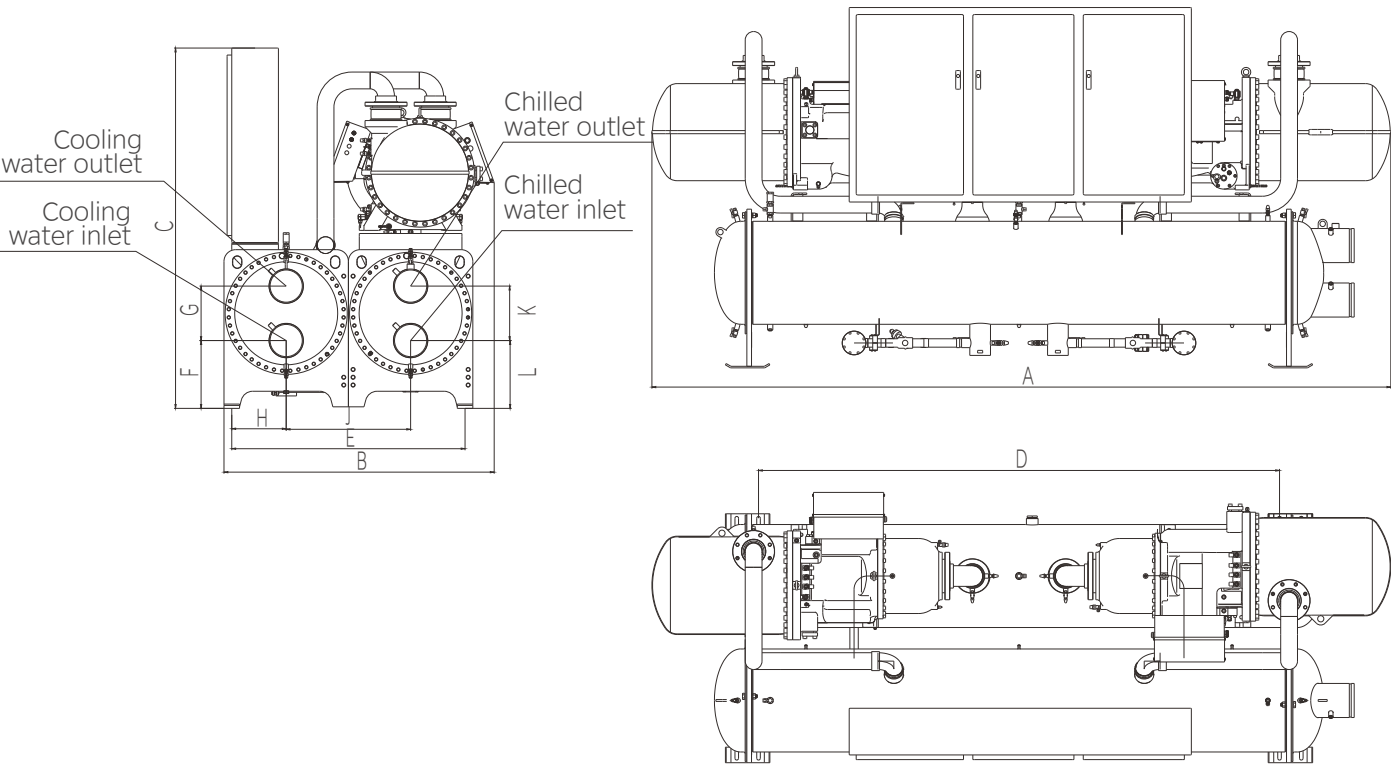
Single compressor



Model	Dimensions			Support		Pipe location							
	Length (A)	Width (B)	Height (C)	D	E	F	G	H	J	K	L	Evaporator pipe diameter	Condenser pipe diameter
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		
SCWG90E	3513	1200	1690	2850	1100	381	260	250	600	260	381	DN125	DN125
SCWG100E	3513	1200	1690	2850	1100	381	260	250	600	260	381	DN125	DN125
SCWG110E	3513	1200	1690	2850	1100	381	260	250	600	260	381	DN125	DN125
SCWG120E	3513	1215	1829	2850	1100	381	260	250	600	260	381	DN150	DN150
SCWG130E	3513	1200	1821	2850	1100	381	260	250	600	260	381	DN150	DN150
SCWG150E	3513	1200	1953	2850	1100	381	260	250	600	260	381	DN150	DN150
SCWG170E	3538	1400	1933	2850	1300	411	300	300	700	300	411	DN150	DN150
SCWG200E	3538	1400	1933	2850	1300	411	300	300	700	300	411	DN150	DN150
SCWG220E	3601	1560	2109	2850	1400	411	350	325	750	350	411	DN200	DN200
SCWG240E	3601	1588	2109	2850	1400	411	350	325	750	350	411	DN200	DN200
SCWG250E	3601	1520	2178	2850	1400	411	350	325	750	350	411	DN200	DN200
SCWG270E	3601	1618	2150	2850	1400	411	350	325	750	350	411	DN200	DN200
SCWG300E	3613	1628	2291	2850	1500	436	350	350	800	350	436	DN200	DN200
SCWG320E	3613	1628	2291	2850	1500	436	350	350	800	350	436	DN200	DN200

Dimensions

Dual compressor



Model	Dimensions			Support		Pipe location								Evaporator pipe diameter	Condenser pipe diameter
	Length (A)	Width (B)	Height (C)	D	E	F	G	H	J	K	L				
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm				
SCWG350E	4518	1617	2291	3350	1500	436	350	350	800	350	436	DN200	DN200		
SCWG400E	4518	1617	2291	3350	1500	436	350	350	800	350	436	DN200	DN200		
SCWG450E	4720	1737	2291	3350	1500	436	350	350	800	350	436	DN200	DN200		
SCWG470E	4752	1737	2291	3350	1500	436	350	350	800	350	436	DN200	DN200		
SCWG500E	4784	1902	2341	3350	1700	389	445	400	900	445	389	DN250	DN250		
SCWG550E	4874	1921	2341	3850	1700	389	445	400	900	445	389	DN250	DN250		

Space Layout



Unit: mm

Model	Dimensions			
	S	T	Z	Y
SCWE90E~SCWE320E	600	600	3200	1000
SCWE350E~SCWE550E	600	600	4200	1000

Z: Tube removal space for either end.

Options

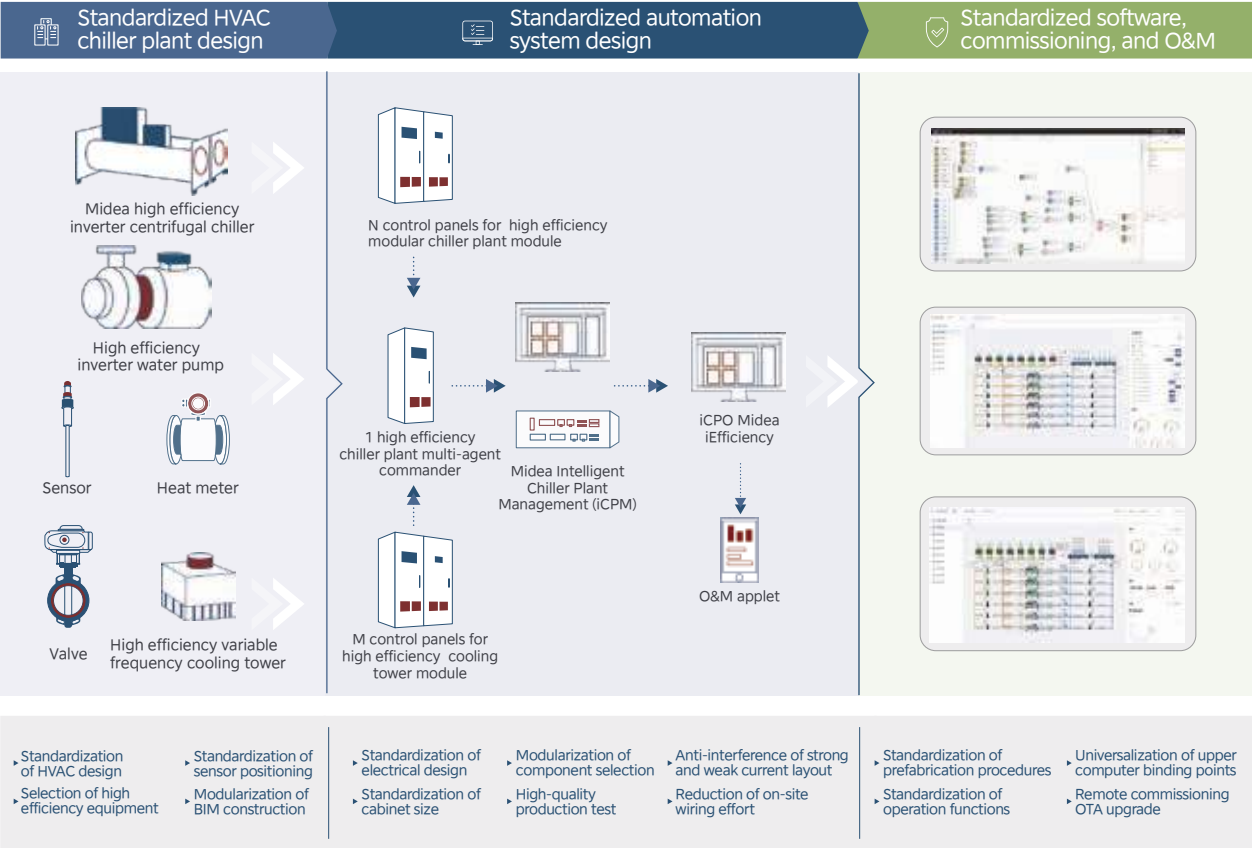
Items	Standard	Optional
Power supply	380V-3Ph-50Hz	400/415V-3Ph-50Hz, 380/440/460V-3Ph-60Hz
Water inlet/outlet connection	Victaulic (>500RT, Flange)	Flange
High pressure water box	1.0MPa	1.6MPa, 2.0MPa
Anti-vibration	Rubber pad	Spring isolator
Communication protocol	Modbus-RTU (RS485)	BACnet IP, BACnet MS/TP (RJ-45 port)
Condenser high-leaving water temperature	45°C	Up to 55°C
Insulation	20mm	40mm
Witness performance testing	×	✓
Remote control & monitor panel	×	✓
Midea Chiller Plant Control	×	✓
Midea Smart Cloud platform	×	✓
QuickView	×	✓
Automatic tube cleaning system	×	✓

Note: For other options, please contact a Midea engineers.

Intelligent management

Midea intelligent chiller plant management (iCPM)

Through the integration of HVAC, automatic control, and software-hardware delivery, the virtual debugging platform optimizes the parameters of the intelligent chiller plant management. Midea's i-Efficiency platform ensures full-link energy efficiency with smart operations and maintenance, achieving efficient design, construction, and delivery with an end-to-end approach.



Full life cycle scenario-based smart operation application - midea iefficiency



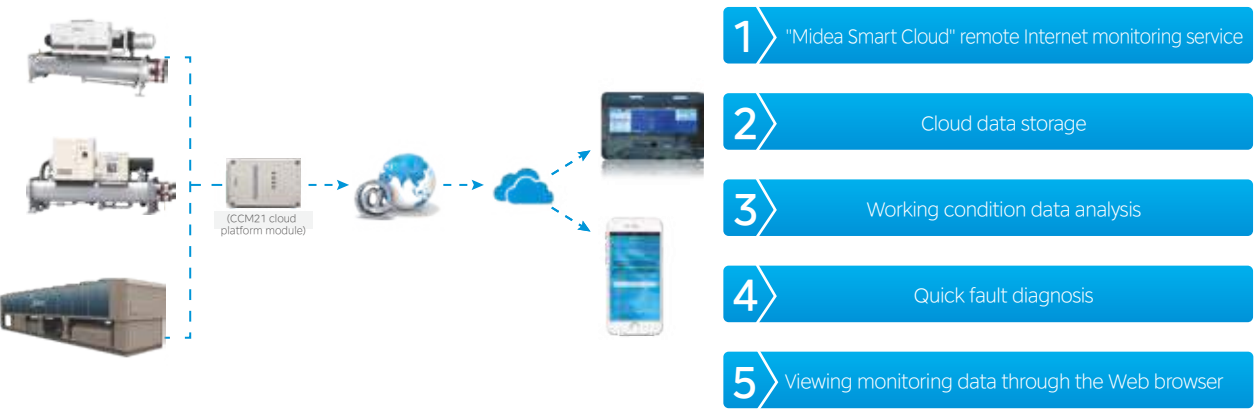
Icipo smart o&m



Midea smart cloud platform

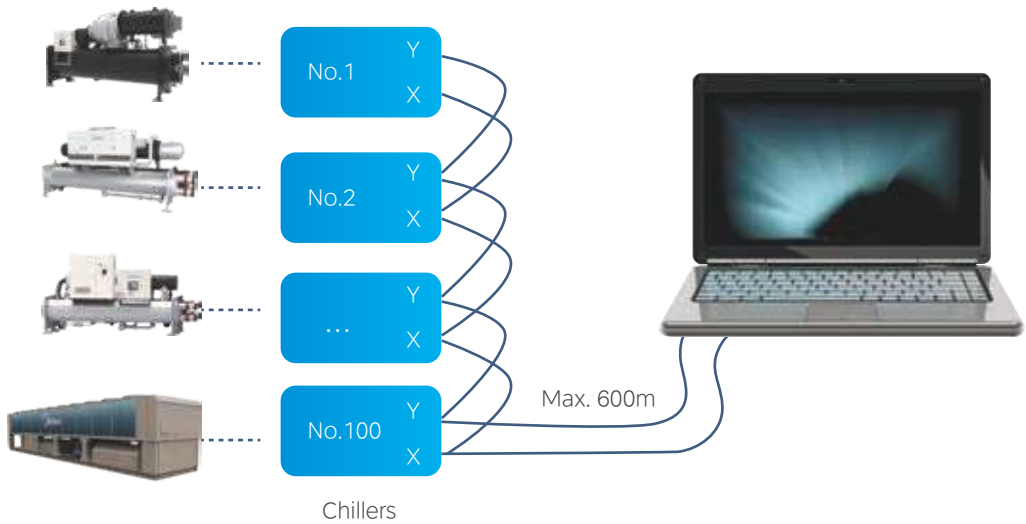


Midea's proprietary internet-based remote monitoring system offers customers a suite of cloud-based tools powered by advanced technology. By connecting their Midea air conditioning system via the IMU smart data acquisition terminal, customers receive professional support for remote fault diagnosis, analysis, and early failure warnings to ensure optimal equipment performance. Real-time monitoring data can be accessed through any web browser, providing customers with up-to-the-minute insights into their system's operation.

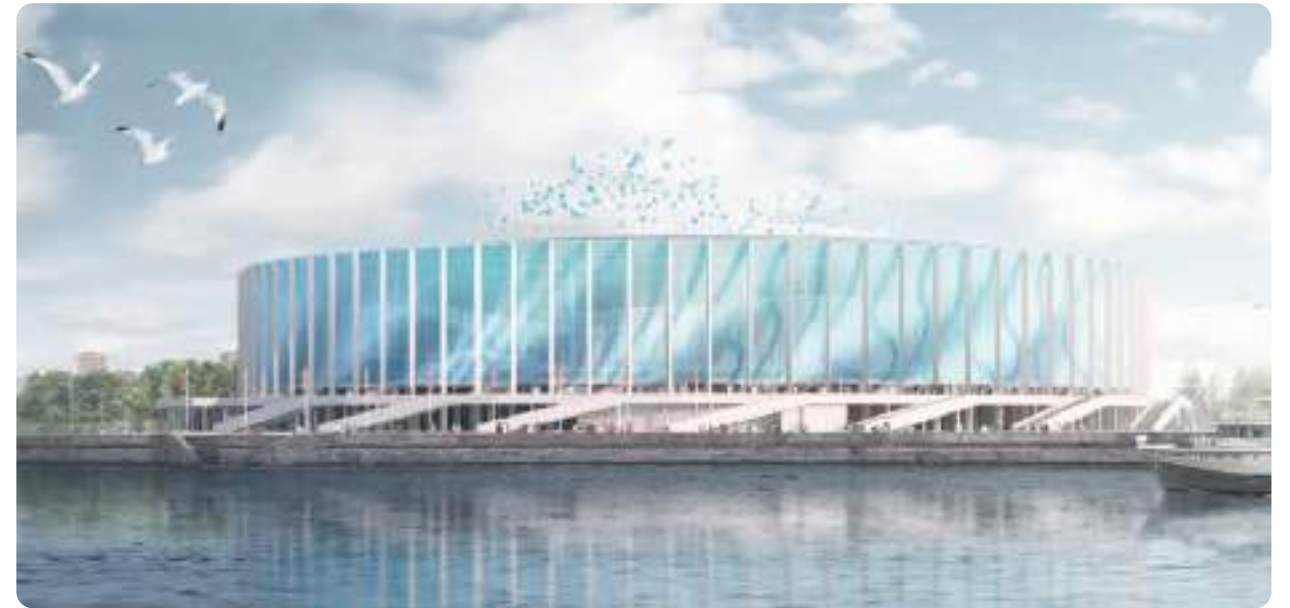


QuickView

Midea's proprietary QuickView smart software control system enhances real-time efficiency, stability, and reliability, while offering advanced visualization and scalability. It provides powerful features such as real-time monitoring of individual units, unit equipment management, remote control, curve display, data storage, alarm query, fault diagnosis, automatic cloud data upload, and external data analysis. This system significantly improves operational management efficiency while reducing the need for human input, as well as operations and maintenance costs.



Reference projects



2018 Russia World Cup Stadiums Nizhny Novgorod Stadium

City: Nizhny Novgorod
Product: Water Cooled Screw Chiller; Fan Coil Units



Volgograd Arena

City: Volgograd
Product: Water Cooled Screw Chiller; Fan Coil Units



Cosmos Arena

City:	Samara
Product:	Water Cooled Screw Chiller



Pullman Hotel & Resort Mandalika (Five Star)

Country:	Indonesia
City:	Lombok
Outdoor Units:	Water Cooled Screw Chiller
Indoor Units:	FCU & AHU
Total Capacity:	900RT



The 27th Southeast Asian Games Stadium

Country:	Myanmar
City:	Nay Pyi Taw
Outdoor Units:	Water Cooled Screw Chiller
Indoor Units:	MAHU
Total Capacity:	4,000RT



Butovo Mall

Country:	Russia
City:	Moscow
Outdoor Units:	Water Cooled Screw Chiller
Total Capacity:	5,000kW
Completion Year:	2015



The Tier 1 Solar Product Manufacturing Plant-Seraphim

Country:	South Africa
City:	Port Elizabeth
Outdoor Units:	Water Cooled Screw Chiller
Total Capacity:	940RT



Top Glove in Malaysia

Country:	Malaysia
City:	Klang
Outdoor Units:	Water Cooled Screw Chiller
Indoor Units:	FCU & AHU
Total Capacity:	3,400RT



The Prime Minister Office Building

Country:	Tajikistan
City:	Dushanbe
Outdoor Units:	Water Cooled Screw Chiller
Indoor Units:	FCU & AHU
Total Capacity:	2,880kW



The University of Georgia

Country:	Georgia
City:	Tbilisi
Outdoor Units:	Water Cooled Screw Chiller
Indoor Units:	FCU
Total Capacity:	1,200kW