

SQ standard model for chilled water circulation

Basic modules			EKWD021CRSQ	EKWD032CRSQ	EKWD043CRSQ	
Cooling mode	Nominal Cooling Capacity	kW	74	110	150	
	Total Power of Nominal Cooling Capacity	kW	14	22.3	30.1	
	Water flow	Evaporator	m ³ /h	12.7	18.9	25.8
		Condenser	m ³ /h	15.1	22.8	30.9
Water pressure drop	Evaporator	kPa	21	30	30	
	Condenser	kPa	17	19	19	
Heat exchanger type	Evaporator type		Plate	Shell-and-tube		
	Condenser type		Shell-and-tube			
Recommended total pipe diameter	Evaporator	mm	DN65	DN65	DN80	
	Condenser	mm	DN65	DN65	DN80	
Volume Adjustment	Steps		2	3	4	
	Regulation mode		Fuzzy control			
Compressor	Model		Fully hermetic volute			
	Lubricant		Mineral oil (SUNISO 3GS)			
Refrigerant	Flow control method		Electronic expansion valve			
	Category		R22			
Dimensions	L x H x W	mm	1647x1202x632	2247x1498x710		
Unit weight	Net weight	kg	452	703	887	
	Transportation weight	kg	478	738	922	

Notes: Test conditions for the unit are as follows:

- Test conditions for nominal cooling capacity: inlet chilled water temperature at the application side 12°C; outlet chilled water temperature at the application side 7°C; inlet cooling water temperature at the heat source side 30°C; outlet chilled water temperature at the heat source side 35°C.
- The water main of the assembled unit needs to be made and mounted on site, and the diameter needs to comply with the design specification.
- The attached Y-shaped filter must be mounted at the water inlet of the evaporator of each unit.
- The cooling water and chilled water of the unit must be softened to avoid scaling in the heat exchanger.
- The water pressure drop of the unit does not include resistance of any external water pipe or component.
- Basic modules of the assembled unit are EKWD032CRSQM/SM/S and EKWD043CRSQM/SM/S. A unit may be formed by modules of the same model or different models.
- Product specifications are subject to change due to upgrade without further notice.

Standard Model for Water Circulation Conditions

Basic modules			EKWD043CR1SQ	EKWD043C1SQ
Cooling mode	Nominal Cooling Capacity		kW	150
	Total Power of Nominal Cooling Capacity		kW	30.1
	Water flow	Evaporator (Application side)	m ³ /h	25.8
		Condenser (Heat source side)	m ³ /h	32.3
Cooling and Heating Mode	Nominal Cooling Capacity		kW	150
	Nominal Heating Capacity		kW	200
	Total Power of Nominal Cooling Capacity		kW	30.1
	Total Power of Heating Cooling Capacity		kW	37.4
	Water flow	Evaporator (Application side)	m ³ /h	25.8
		Condenser (Heat source side)	m ³ /h	32.3
Water pressure drop	Evaporator		kPa	52
	Condenser		kPa	20
Heat exchanger type	Evaporator type			Shell-and-tube
	Condenser type			Shell-and-tube
Recommended total pipe diameter	Evaporator		mm	DN80
	Condenser		mm	DN80
Volume Adjustment	Steps			4
	Regulation mode			Fuzzy control
Compressor	Model			Fully hermetic volute
	Lubricant			POE
Refrigerant	Flow control method			Electronic expansion valve
	Category			R410A
Dimensions	Length x height x width		mm	2247 x 1498 x 710
Unit weight	Net weight		kg	890
	Operating weight		kg	970

Notes: Test conditions for the unit are as follows:

- Test conditions for nominal cooling capacity: inlet chilled water temperature at the application side 12°C; outlet chilled water temperature at the application side 7°C; inlet cooling water temperature at the heat source side 30°C; outlet chilled water temperature at the heat source side 35°C.
- Test conditions for nominal heating capacity: inlet/outlet water temperature at the application side 40/-°C, and rated water flow at the application side for nominal cooling; inlet/outlet water temperature at the heat source side 20/-°C, and rated water flow at the heat source side for nominal cooling.
- Switching between the cooling and heating modes is implemented through an external valve connected to the water system. The unit provides a interface for controlling the electric valve.
- The water main of the assembled unit needs to be made and mounted on site, and the diameter needs to comply with the design specification.
- The attached Y-shaped filter must be mounted at the water inlet of the evaporator of each unit.
- The cooling water and chilled water of the unit must be softened to avoid scaling in the heat exchanger.
- The water pressure drop of the unit does not include resistance of any external water pipe or component.
- Basic modules of the assembled unit are EKWD032CRSQM/S and EKWD043CRSQM/S. A unit may be formed by modules of the same model or different models.
- Product specifications are subject to change due to upgrade without further notice.