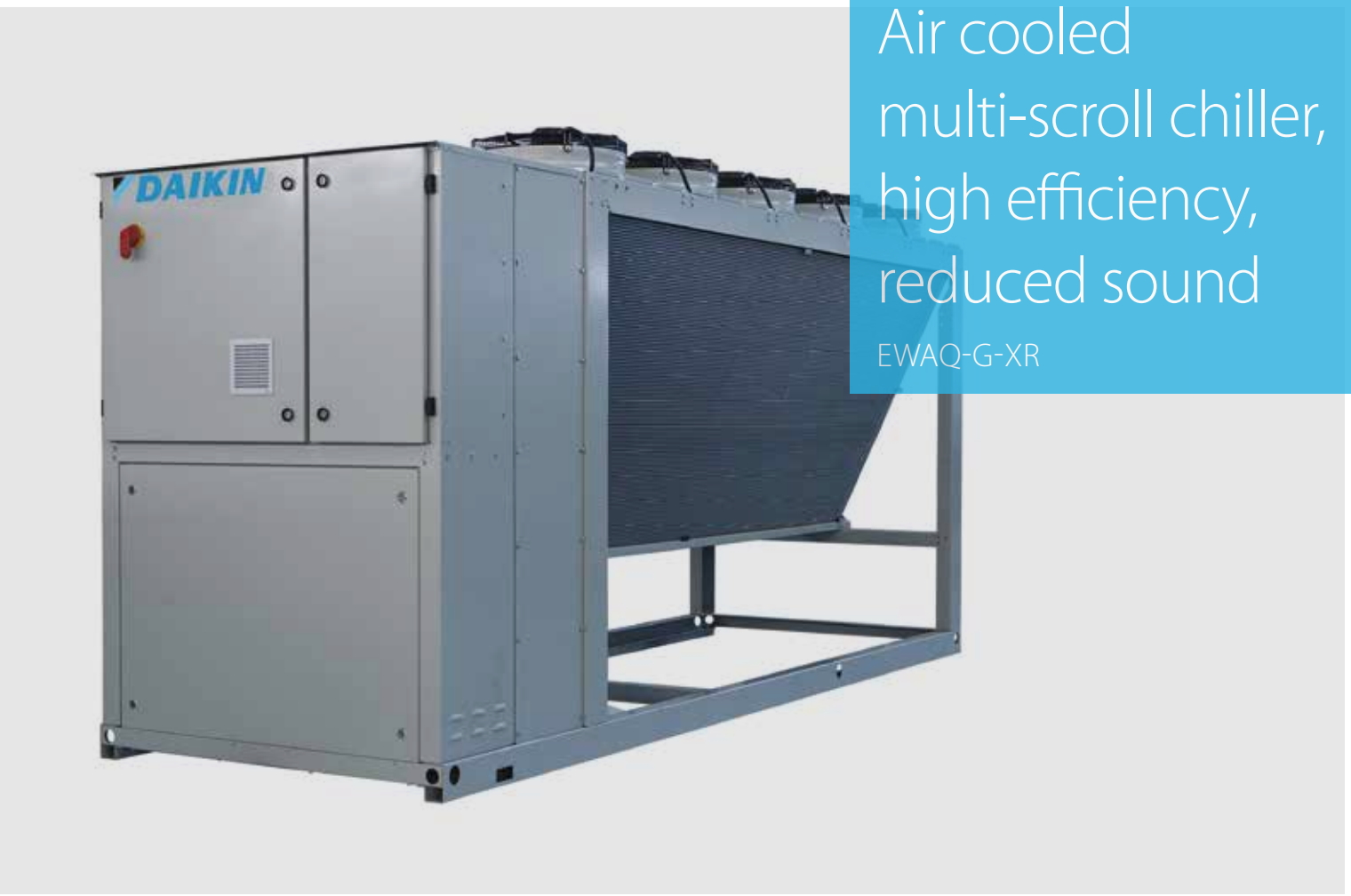
Air cooled multi-scroll chiller, high efficiency, reduced sound

EWAQ-G-XR



Scroll compressor

- Single refrigerant circuit (2 scroll compressors) with single evaporator
- Compact design to allow easy indoor installation or retrofit operations
- Micro channel heat exchanger technology reduces the amount of refrigerant used in the system, lowering environmental impact
- Partial and total heat recovery option available
- Stainless steel plate heat exchanger

EWAQ-G-XR

EWAQ-G-XR

MicroTech III

Cooling only				EWAQ-G-XR	080	090	105	115	130	150
Cooling capacity	Nom.			kW	76.0 (1)	86.0 (1)	100 (1)	110 (1)	125 (1)	141 (1)
Power input	Cooling	Nom.		kW	26.4 (1)	29.9 (1)	34.7 (1)	39.0 (1)	43.3 (1)	49.8 (1)
Capacity control	Method				Step					
	Minimum capacity			%	50	44	50	44	50	43
EER					2.88 (1)		2.89 (1)	2.83 (1)	2.88 (1)	2.83 (1)
ESEER					4.18	4.29	4.27	4.31	4.21	4.33
IPLV					4.85	4.99	4.93	4.99	4.89	5.03
Dimensions	Unit	Height		mm	1,800				1,820	
		Width		mm	1,195					
		Depth		mm	2,680	3,200			3,800	
Weight	Unit			kg	764	880	1,021	1,050	1,116	1,153
	Operation weight			kg	774	890	1,037	1,065	1,132	1,174
Water heat exchanger	Type				Brazed plate					
	Water flow rate	Cooling	Nom.	l/s	3.6	4.1	4.8	5.3	6.0	6.7
	Water pressure drop	Cooling	Nom.	kPa	23.3	29.6	18.4	17.8	23.0	18.4
	Water volume			l	5.58	4.86		5.60		8.10
Air heat exchanger	Type				Microchannel					
Compressor	Type				Scroll compressor					
	Quantity				2					
Fan	Type				Direct propeller					
	Quantity				6		8		10	
	Air flow rate	Nom.		l/s	6,787	7,356	9,023		11,309	
	Speed			rpm	1,108					
Sound power level	Cooling	Nom.		dBA	80	82	84		86	
Sound pressure level	Cooling	Nom.		dBA	62	65	66	68	67	
Operation range	Air side	Cooling	Min.~Max.	°CDB	-10~45					
	Water side	Cooling	Min.~Max.	°CDB	-10~15					
Refrigerant	Type/GWP				R-410A/2,087.5					
	Circuits	Quantity			1					
Refrigerant charge	Per circuit			kg	8.0		10.0			12.0
				TCO_2eq	16.7		20.9			25.1
Piping connections	Evaporator water inlet/outlet (OD)				2" 1/2					
Unit	Starting current	Max		A	209	260	267	314	324	362
	Running current	Cooling	Nom.	A	54	58	63	71	78	90
		Max		A	65	71	78	85	95	109
Power supply	Phase/Frequency/Voltage			Hz/V	3~/50/400					

(1) Cooling: entering evaporator water temp. 12°C; leaving evaporator water temp. 7°C; ambient air temp. 35°C; full load operation. | Equipment contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction, details can be found on the unit labels.

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