NEW R32

OUTDOOR UNITS

SCM 40-45 ZS-W

SCM 50-60 ZS-W

SCM 71-80 ZS-W

SCM 100 ZS-W

Model			SCM 40 ZS-W	SCM 45 ZS-W	SCM 50 ZS-W	SCM 60 ZS-W	SCM 71 ZS-W	SCM 80 ZS-W	SCM 100 ZS-W
Type			Outdoor DC-Inverter heat pump unit						
Connectable indoor units (min - max)		no.	2 - 2	2 - 2	2 - 3	2 - 3	2 - 4	2 - 4	*2 - 5
I.U. connectable rated capacity min/max		kW	4.00 - 6.00	4.50 - 7.00	4.00 - 8.50	4.00 - 11.00	7.00 - 12.50	8.00 - 13.50	9.00 - 16.00
Rated capacity (T=+35°C)	Cooling	kW	4.00 (1.50~5.90)	4.50 (1.50~6.40)	5.00 (1.70~7.10)	6.00 (1.70~7.50)	7.10 (1.80~8.80)	8.00 (1.80~9.20)	10.00 (1.70~11.50)
Rated absorbed power (T=+35°C)	Cooling	kW	0.80 (0.34~2.10)	0.96 (0.34~2.30)	1.02 (0.43~2.15)	1.32 (0.43~2.28)	1.42 (0.48~2.75)	1.70 (0.48~2.83)	2.70 (0.48~3.65)
Rated energy efficiency coefficient	Cooling	EER[3]	5.00	4.69	4.90	4.55	5.00	4.71	3.70
Seasonal energy efficiency class	Cooling	626/2011[1]	A+++	A+++	A+++	A+++	A++	A++	A+++
Seasonal energy efficiency index	Cooling	SEER[2]	9.10	9.10	8.80	8.80	8.30	8.20	8.60
Annual energy consumption	Cooling	kWh/a	154	174	199	239	300	342	407
Theoretical load (Pdesignc)	Cooling	kW	4.00	4.50	5.00	6.00	7.10	8.00	10.00
Rated capacity (T=+7°C)	Heating	kW	4.50 (1.00~6.30)	5.30 (1.00~6.50)	6.00 (1.00~7.50)	6.80 (1.00~7.80)	8.60 (1.10~9.40)	9.30 (1.10~9.80)	10.50 (0.90~11.50)
Rated absorbed power (T=+7°C)	Heating	kW	0.83 (0.25~1.48)	1.06 (0.25~1.48)	1.16 (0.32~2.50)	1.40 (0.32~2.80)	1.75 (0.35~3.00)	1.95 (0.35~3.12)	2.38 (0.37~2.90)
Rated energy performance coefficient	Heating	COP[3]	5.42	5.00	5.17	4.86	4.91	4.77	4.41
Energy efficiency class (average season)	Heating	626/2011[1]	A++	A++	A++	A++	A++	A++	A+
Seasonal energy efficiency class index (average season)	Heating	SCOP[2]	4.70	4.70	4.60	4.60	4.60	4.60	4.50
Annual energy consumption	Heating	kWh/a	1222	1222	1430	1430	2038	2038	2116
Theoretical load (Pdesignh) @-10° C	Heating	kW	4.10	4.10	4.70	4.70	6.70	6.70	6.80
Operating limits (outside temperature)	Cooling	°C	-15~46						
	Heating	°C	-15~24						
Electrical data									
Power	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz						
Power cable		Type	3 x 4 mm[2]	3 x 4 mm[2]	3 x 4 mm[2]	3 x 4 mm[2]	3 x 4 mm[2]	3 x 4 mm[2]	3 x 4 mm[2]
Connection wires between each I.U. and O.U.		no.	4	4	4	4	4	4	4
Rated absorbed current	Cooling	A	3.50	4.30	4.50	5.80	6.20	7.50	11.90
	Heating	A	3.70	4.70	5.10	6.10	7.80	8.60	10.50
Maximum current		A	14.00	14.00	15.00	15.00	20.00	20.00	21.00
Refrigerant circuit									
Refrigerant (GWP)[4]			R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)
Quantity refrigerant pre-load		Kg	1.4	1.4	1.8	1.8	2.55	2.55	2.98
Tons of CO2 equivalent		t	0.945	0.945	1.215	1.215	1.721	1.721	2.012
Diameter of refrigerant piping	Liquid	mm (inches)	ø6.35 (1/4") x 2	ø6.35 (1/4") x 2	ø6.35 (1/4") x 3	ø6.35 (1/4") x 3	ø6.35 (1/4") x 4	ø6.35 (1/4") x 4	ø6.35 (1/4") x 5
	Gas		ø9.52 (3/8") x 2	ø9.52 (3/8") x 2	ø9.52 (3/8") x 3	ø9.52 (3/8") x 3	ø9.52 (3/8") x 4	ø9.52 (3/8") x 4	ø9.52 (3/8") x 5
Total splitting length		m	30	30	40	40	70	70	75
Max length of a single refrigeration line		m	25	25	25	25	25	25	25
Max height difference I.U./O.U.		m	15	15	15	15	20	20	20
Max height difference between I.U.		m	25	25	25	25	25	25	25
Splitting length without additional load		m	20	20	40	40	30	30	40
Additional load per metre of splitting		g/m	20	20	20	20	20	20	20
Product specifications									
Dimensions	LxDxH	mm	780(+90)x290x595	780(+90)x290x595	850(+65)x290x640	850(+65)x290x640	880(+73)x340x750	880(+73)x340x750	970(+73)x370x945
Net weight		Kg	40	40	48.5	48.5	61	61	73
Sound pressure level	Max	dB(A)	51	52	52	52	54	54	59
	Silent mode	dB(A)	46	46	44	44	50	50	50
Sound power level	Max	dB(A)	64	65	64	64	67	67	72
Handled air	Max	m3/h	1950	1950	2460	2460	3360	3360	4500
Motor power	Output	W	24	24	34	34	86	86	86

* The minimum number of connectable indoor units varies according to the type of connected units, moreover, the total capacity must always respect the minimum and maximum connectable load range. Always check that the proposed configuration is in the table of possible configurations.

The values refer to the following combinations: **SCM 40 ZS-W** + 2 x SRK 20 ZSX-W / **SCM 45 ZS-W** + SRK 20 ZSX-W + SRK 25 ZSX-W / **SCM 50 ZS-W** + 3 x SRK 20 ZSX-W / **SCM 60 ZS-W** + 3 x SRK 20 ZSX-W / **SCM 71 ZS-W** + 4 x SRK 20 ZSX-W / **SCM 80 ZS-W** + 4 x SRK 20 ZSX-W / **SCM 100 ZS-W** + 5 x SRK 20 ZSX-W.

1 EU Delegated Regulation No.626/2011 on the new labelling indicating the energy consumption of air conditioners. 2 EU Regulation No.206/2012 - Value measured according to harmonised standard EN14825. 3 Value measured according to harmonised standard EN14511. 4 Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.