

OUTDOOR UNITS

HIGH PERFORMANCE

Outdoor unit	EER*	COP*	SEER*	SCOP*
SCM 30 ZS-W	5.77	5.41	8.60 / A+++	4.80 / A++
SCM 40 ZS-W	5.00	5.42	9.10 / A+++	4.70 / A++
SCM 45 ZS-W	4.69	5.00	9.10 / A+++	4.70 / A++
SCM 41 ZS-W	5.56	5.56	9.20 / A+++	4.60 / A++
SCM 50 ZS-W	4.90	5.17	8.80 / A+++	4.60 / A++
SCM 60 ZS-W	4.55	4.86	8.80 / A+++	4.60 / A++
SCM 71 ZS-W	5.00	4.91	8.30 / A++	4.60 / A++
SCM 80 ZS-W	4.71	4.77	8.20 / A++	4.60 / A++
SCM 100 ZS-W	3.70	4.41	8.60 / A+++	4.50 / A+

* The values shown may vary depending on the combinations chosen. For further information, refer to the technical manual.

OPERATING RANGE

-15°C / +46°C

Cooling operation

OPERATING RANGE

-15°C / +24°C

Heating operation

HIGHLY COMPACT

High compactness for models 3.00 to 6.00 kW. Easy installation.

SCM 30-40-45 ZS-W



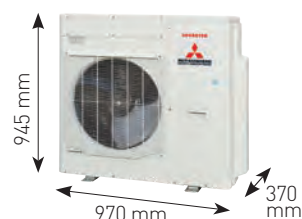
SCM 41-50-60 ZS-W



SCM 71-80 ZS-W



SCM 100 ZS-W



INSTALLATION FLEXIBILITY



SCM 30-40-45 ZS-W

L	TOT PIPING	= 30 m
L	MAX O.U.-I.U.	= 25 m
H	MAX O.U.-I.U.	= 15 m
H	MAX I.U.-I.U.	= 25 m

SCM 71-80 ZS-W

L	TOT PIPING	= 70 m
L	MAX O.U.-I.U.	= 25 m
H	MAX O.U.-I.U.	= 20 m
H	MAX I.U.-I.U.	= 25 m

SCM 41-50-60 ZS-W

L	TOT PIPING	= 40 m
L	MAX O.U.-I.U.	= 25 m
H	MAX O.U.-I.U.	= 15 m
H	MAX I.U.-I.U.	= 25 m

SCM 100 ZS-W

L	TOT PIPING	= 75 m
L	MAX O.U.-I.U.	= 25 m
H	MAX O.U.-I.U.	= 20 m
H	MAX I.U.-I.U.	= 25 m

OUTDOOR UNITS

R32



SCM 30-40-45 ZS-W



SCM 41-50-60 ZS-W

Model			SCM 30 ZS-W	SCM 40 ZS-W	SCM 45 ZS-W	SCM 41 ZS-W	SCM 50 ZS-W	SCM 60 ZS-W
Type			DC-Inverter Heat pump outdoor unit					
Connectable indoor units (min - max)		nb.	2 - 2	2 - 2	2 - 2	2 - 3	2 - 3	2 - 3
Rated connectable capacity I.U. (min - max)		kW	3.00 - 5.00	4.00 - 6.00	4.50 - 7.00	4.00 - 7.00	5.00 - 8.50	6.00 - 11.00
Nominal data								
Rated capacity (T=+35°C)	Cooling	kW	3.00 (1.40~5.00)	4.00 (1.50~5.90)	4.50 (1.50~6.40)	4.00 (1.40~6.30)	5.00 (1.70~7.10)	6.00 (1.70~7.50)
Rated power input (T=+35°C)		kW	0.52 (0.32~1.60)	0.80 (0.34~2.10)	0.96 (0.34~2.30)	0.72 (0.32~1.65)	1.02 (0.43~2.15)	1.32 (0.43~2.28)
Rated energy efficiency coefficient		EER ¹	5.77	5.00	4.69	5.56	4.90	4.55
Rated capacity (T=+7°C)	Heating	kW	4.00(1.00~5.70)	4.50 (1.00~6.30)	5.30 (1.00~6.50)	4.50 (1.00~6.90)	6.00 (1.00~7.50)	6.80 (1.00~7.80)
Rated power input (T=+7°C)		kW	0.74 (0.25~1.49)	0.83 (0.25~1.48)	1.06 (0.25~1.48)	0.81 (0.25~1.58)	1.16 (0.32~2.50)	1.40 (0.32~2.80)
Rated energy performance coefficient		COP ¹	5.41	5.42	5.00	5.56	5.17	4.86
Seasonal data								
Design load (Pdesignc)	Cooling	kW	3.00	4.00	4.50	4.00	5.00	6.00
Seasonal energy efficiency index		SEER ²	8.60	9.10	9.10	9.20	8.80	8.80
Seasonal energy efficiency class		626/2011 ³	A+++	A+++	A+++	A+++	A+++	A+++
Annual energy consumption	Heating (average climate conditions)	kWh/y	123	154	174	153	199	239
Design load (Pdesignh) @ -10°C		kW	3.30	4.10	4.10	3.40	4.70	4.70
Seasonal energy efficiency index		SCOP ²	4.80	4.70	4.70	4.60	4.60	4.60
Seasonal energy efficiency class		626/2011 ³	A++	A++	A++	A++	A++	A++
Annual energy consumption		kWh/y	962	1222	1222	1034	1430	1430
Electrical data								
Power supply		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
Connection wires between each I.U. and O.U.		nb.	4	4	4	4	4	4
Nominal absorbed current	Cooling	A	2.50	3.50	4.30	3.30	4.50	5.80
	Heating	A	3.40	3.70	4.70	3.70	5.10	6.10
Max current		A	14.00	14.00	14.00	15.00	15.00	15.00
Refrigerant circuit data								
Refrigerant ⁴		Type (GWP)	R32 (675)					
Refrigerant precharge		Kg	1.25	1.40	1.40	1.60	1.80	1.80
Tons of CO2 equivalent		t	0.844	0.945	0.945	1.080	1.215	1.215
Refrigerant pipings' diameter	Liquid	mm (inch.)	6.35 (1/4") x 2	6.35 (1/4") x 2	6.35 (1/4") x 2	6.35 (1/4") x 3	6.35 (1/4") x 3	6.35 (1/4") x 3
	Gas		9.52 (3/8") x 2	9.52 (3/8") x 2	9.52 (3/8") x 2	9.52 (3/8") x 3	9.52 (3/8") x 3	9.52 (3/8") x 3
Total splitting distance	m		30	30	30	40	40	40
Max length of a single refrigeration line	m		25	25	25	25	25	25
Max splitting level difference I.U./O.U.	m		15	15	15	15	15	15
Max splitting level difference between I.U.	m		25	25	25	25	25	25
Max. splitting without additional charge	m		30	20	20	40	40	40
Additional charge	g/m		20	20	20	20	20	20
Product specifications								
Dimensions	LxDxH	mm	780(+90)x290x595	780(+90)x290x595	780(+90)x290x595	850(+65)x290x640	850(+65)x290x640	850(+65)x290x640
Net weight		Kg	35.5	40	40	42.5	48.5	48.5
Sound power level	Max	dB(A)	64	64	65	64	64	64
	Max		51	51	52	52	52	52
Sound pressure level	Silent mode	dB(A)	45	46	46	44	44	44
	Max		45	46	46	44	44	44
Air flow volume	Max	m³/h	1950	1950	1950	2460	2460	2460
Operating range (outdoor temperature)	Cooling	°C	-15~46					
	Heating	°C	-15~24					

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - Value measured according to the harmonised standard EN 14825.

The values refer to the following combinations: **SCM 30 ZS-W** + 2 x SRK 15 ZS-WF / **SCM 40 ZS-W** + 2 x SRK 20 ZSX-W / **SCM 45 ZS-W** + SRK 25 ZSX-W + SRK 25 ZSX-W / **SCM 41 ZS-W** + 3 x SRK 15 ZS-WF / **SCM 50 ZS-W** + 3 x SRK 20 ZSX-W / **SCM 60 ZS-W** + 3 x SRK 20 ZSX-W.

3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 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.

OUTDOOR UNITS

R32



SCM 71-80 ZS-W



SCM 100 ZS-W

Model			SCM 71 ZS-W	SCM 80 ZS-W	SCM 100 ZS-W
Type			DC-Inverter Heat pump outdoor unit		
Connectable indoor units (min - max)		nb.	2 - 4	2 - 4	*2 - 5
Rated connectable capacity I.U. (min - max)		kW	7.00 - 12.50	8.00 - 13.50	9.00- 16.00
Nominal data					
Rated capacity (T=+35°C)	Cooling	kW	7.10 (1.80~8.80)	8.00 (1.80~9.20)	10.00 (1.70~11.50)
Rated power input (T=+35°C)		kW	1.42 (0.48~2.75)	1.70 (0.48~2.83)	2.70 (0.48~3.65)
Rated energy efficiency coefficient		EER1	5.00	4.71	3.70
Rated capacity (T=+7°C)	Heating	kW	8.60 (1.10~9.40)	9.30 (1.10~9.80)	10.50 (0.90~11.50)
Rated power input (T=+7°C)		kW	1.75 (0.35~3.00)	1.95 (0.35~3.12)	2.38 (0.37~2.90)
Rated energy performance coefficient		COP1	4.91	4.77	4.41
Seasonal data					
Design load (Pdesignc)	Cooling	kW	7.10	8.00	10.00
Seasonal energy efficiency index		SEER2	8.30	8.20	8.60
Seasonal energy efficiency class		626/20113	A++	A++	A+++
Annual energy consumption	Heating (average climate conditions)	kWh/y	300	342	407
Design load (Pdesignh) @ -10°C		kW	6.70	6.70	6.80
Seasonal energy efficiency index		SCOP2	4.60	4.60	4.50
Seasonal energy efficiency class		626/20113	A++	A++	A+
Annual energy consumption		kWh/y	2038	2038	2116
Electrical data					
Power supply	Ph-V-Hz		1-220~240V-50Hz		
Power cable	Type		3 x 4 mm2	3 x 4 mm2	3 x 4 mm2
Connection wires between each I.U. and O.U.		nb.	4	4	4
Nominal absorbed current	Cooling	A	6.20	7.50	11.90
	Heating	A	7.80	8.60	10.50
Max current		A	20.00	20.00	21.00
Refrigerant circuit data					
Refrigerant4		Type (GWP)	R32 (675)		
Refrigerant precharge		Kg	2.55	2.55	2.98
Tons of CO2 equivalent		t	1.721	1.721	2.012
Refrigerant pipings' diameter	Liquid Gas	mm (inch.)	6.35 (1/4") x 4 9.52 (3/8") x 4	6.35 (1/4") x 4 9.52 (3/8") x 4	6.35 (1/4") x 5 9.52 (3/8") x 5
Total splitting distance		m	70	70	75
Max length of a single refrigeration line		m	25	25	25
Max splitting level difference I.U./O.U.		m	20	20	20
Max splitting level difference between I.U.		m	25	25	25
Max. splitting without additional charge		m	30	30	40
Additional charge		g/m	20	20	20
Product specifications					
Dimensions	LxDxH	mm	880(+73)x340x750	880(+73)x340x750	970(+73)x370x945
Net weight		Kg	61	61	73
Sound power level	Max	dB(A)	67	67	72
Sound pressure level	Max	dB(A)	54	54	59
	Silent mode		50	50	50
Air flow volume	Max	m³/h	3360	3360	4500
Operating range (outdoor temperature)	Cooling	°C	-15~46		
	Heating	°C	-15~24		

* Combinations with 2 indoor units have many limitations. Always check the proposed configuration with our Technical Office.

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - Value measured according to the harmonised standard EN 14825.

The values refer to the following combinations: **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.

3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 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.