R32

RESIDENTIAL MULTISPLIT R32

kW		3.00	4.00	4.50	4.00	5.00	6.00	7.10	8.00	10.00
No. connectable indoor units		2-2	2-2	2-2	2-3	2-3	2-3	2-4	2-4	2-5
		NEW			NEW					
		SCM 30 ZS-W	SCM 40 ZS-W	SCM 45 ZS-W	SCM 41 ZS-W	SCM 50 ZS-W	SCM 60 ZS-W	SCM 71 ZS-W	SCM 80 ZS-W	SCM 100 ZS-W
	SRK 20 ZSX-WF(T)		✓	✓		✓	✓	✓	✓	✓
	SRK 25 ZSX-WF(T)		✓	✓		✓	✓	✓	✓	✓
	SRK 35 ZSX-WF(T)		✓	✓		✓	✓	✓	✓	✓
	SRK 50 ZSX-WF(T)					✓	✓	✓	✓	✓
	SRK 60 ZSX-WF(T)						✓	✓	✓	✓
	SRK 15 ZS-WF(T)	✓			✓					
	SRK 20 ZS-WF(T)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SRK 25 ZS-WF(T)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SRK 35 ZS-WF(T)		✓	✓	✓	✓	✓	✓	✓	✓
	SRK 50 ZS-WF(T)					✓	✓	✓	✓	✓
	SRK 71 ZR-WF							✓	✓	✓
	SRK 80 ZR-WF									✓
	SKM 15 ZSP-W	✓			✓					
	SKM 20 ZSP-W	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SKM 25 ZSP-W	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SKM 35 ZSP-W		✓	✓	✓	✓	✓	✓	✓	✓
	SRF 25 ZS-W		✓	✓		✓	✓	✓	✓	✓
	SRF 35 ZS-W		✓	✓		✓	✓	✓	✓	✓
	SRK 50 ZSX-W					✓	✓	✓	✓	✓
	SRR 25 ZS-W		✓	✓		✓	✓	✓	✓	✓
	SRR 35 ZS-W		✓	✓		✓	✓	✓	✓	✓
	SRR 50 ZS-W					✓	✓	✓	✓	✓
	SRR 60 ZS-W						✓	✓	✓	✓
	FDUM 50 VH					✓	✓	✓	✓	✓
	FDE 50 VH					✓	✓	✓	✓	✓
	FDTC 25 VH1		✓	✓		✓	✓	✓	✓	✓
	FDTC 35 VH1		✓	✓		✓	✓	✓	✓	✓
	FDTC 50 VH					✓	✓	✓	✓	✓
	FDTC 60 VH						✓	✓	✓	✓

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

in heating

HIGHLY COMPACT

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

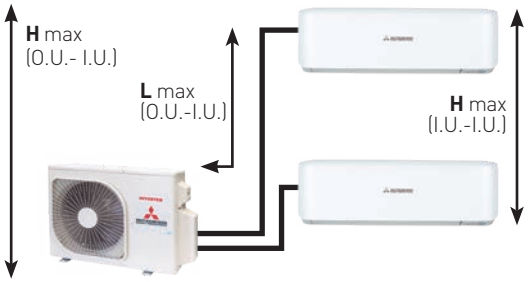
SCM 30-40-45 ZS-W

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 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 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 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

MITSUBISHI HEAVY INDUSTRIES

OUTDOOR UNITS

NEW 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			Outdoor DC-Inverter heat pump unit					
Connectable indoor units (min - max)		no.	2 - 2	2 - 2	2 - 2	2 - 3	2 - 3	2 - 3
I.U. connectable rated capacity 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 absorbed power (T=+35°C)	Cooling	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	Cooling	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 absorbed power (T=+7°C)	Heating	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	Heating	COP[1]	5.41	5.42	5.00	5.56	5.17	4.86
Seasonal data								
Theoretical load (Pdesignc)	Cooling	kW	3.00	4.00	4.50	4.00	5.00	6.00
Seasonal energy efficiency index	Cooling	SEER[2]	8.60	9.10	9.10	9.20	8.80	8.80
Seasonal energy efficiency class	Cooling	626/2011[3]	A+++	A+++	A+++	A+++	A+++	A+++
Annual energy consumption	Cooling	kWh/a	123	154	174	153	199	239
Theoretical load (Pdesignh) @-10°C	Heating (average climate conditions)	kW	3.30	4.10	4.10	3.40	4.70	4.70
Seasonal energy efficiency index	Heating (average climate conditions)	SCOP[2]	4.80	4.70	4.70	4.60	4.60	4.60
Seasonal energy efficiency class	Heating (average climate conditions)	626/2011[3]	A++	A++	A++	A++	A++	A++
Annual energy consumption	Heating (average climate conditions)	kWh/a	962	1222	1222	1034	1430	1430
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	3 x 4 mm2	3 x 4 mm2	3 x 4 mm2
Connection wires between I.U. and O.U.		no.	4	4	4	4	4	4
Absorbed current	Cooling	A	2.50	3.50	4.30	3.30	4.50	5.80
Absorbed current	Heating	A	3.40	3.70	4.70	3.70	5.10	6.10
Maximum current		A	14.00	14.00	14.00	15.00	15.00	15.00
Refrigerant circuit								
Refrigerant[4]		Type (GWP)	R32 (675)					
Quantity refrigerant pre-load		Kg	1.25	1.4	1.4	1.6	1.8	1.8
Tons of CO2 equivalent		t	0.844	0.945	0.945	1.080	1.215	1.215
Diameter of refrigerant piping	Liquid	mm (inches)	ø6.35 (1/4") x 2	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 3
Diameter of refrigerant piping	Gas	mm (inches)	ø9.52 (3/8") x 2	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 3
Total splitting length		m	30	30	30	40	40	40
Max length of a single refrigeration line		m	25	25	25	25	25	25
Max height difference I.U./O.U.		m	15	15	15	15	15	15
Max height difference between I.U.		m	25	25	25	25	25	25
Splitting length without additional load		m	30	20	20	40	40	40
Additional load per metre of splitting		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
Sound pressure level	Max	dB(A)	51	51	52	52	52	52
Sound pressure level	Silent mode	dB(A)	45	46	46	44	44	44
Treated air volume	Max	m3/h	1950	1950	1950	2460	2460	2460
Operating limits (outside temperature)	Cooling	°C	-15~46					
Operating limits (outside temperature)	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 20 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			Outdoor DC-Inverter heat pump unit		
Connectable indoor units (min - max)		no.	2 - 4	2 - 4	* 2 - 5
I.U. connectable rated capacity 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 absorbed power (T=+35°C)	Cooling	kW	1.42 (0.48~2.75)	1.70 (0.48~2.83)	2.70 (0.48~3.65)
Rated energy efficiency coefficient	Cooling	EER[1]	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 absorbed power (T=+7°C)	Heating	kW	1.75 (0.35~3.00)	1.95 (0.35~3.12)	2.38 (0.37~2.90)
Rated energy performance coefficient	Heating	COP[1]	4.91	4.77	4.41
Seasonal data					
Theoretical load (Pdesignc)	Cooling	kW	7.10	8.00	10.00
Seasonal energy efficiency index	Cooling	SEER[2]	8.30	8.20	8.60
Seasonal energy efficiency class	Cooling	626/2011[3]	A++	A++	A+++
Annual energy consumption	Cooling	kWh/a	300	342	407
Theoretical load (Pdesignh) @-10°C	Heating (average climate conditions)	kW	6.70	6.70	6.80
Seasonal energy efficiency index	Heating (average climate conditions)	SCOP[2]	4.60	4.60	4.50
Seasonal energy efficiency class	Heating (average climate conditions)	626/2011[3]	A++	A++	A+
Annual energy consumption	Heating (average climate conditions)	kWh/a	2038	2038	2116
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
Connection wires between I.U. and O.U.		no.	4	4	4
Absorbed current	Cooling	A	6.20	7.50	11.90
Absorbed current	Heating	A	7.80	8.60	10.50
Maximum current		A	20.00	20.00	21.00
Refrigerant circuit					
Refrigerant[4]		Type (GWP)	R32 (675)		
Quantity refrigerant pre-load		Kg	2.55	2.55	2.98
Tons of CO2 equivalent		t	1.721	1.721	2.012
Diameter of refrigerant piping	Liquid	mm (inches)	ø6.35 (1/4") x 4	ø6.35 (1/4") x 4	ø6.35 (1/4") x 5
Diameter of refrigerant piping	Gas	mm (inches)	ø9.52 (3/8") x 4	ø9.52 (3/8") x 4	ø9.52 (3/8") x 5
Total splitting length		m	70	70	75
Max length of a single refrigeration line		m	25	25	25
Max height difference I.U./O.U.		m	20	20	20
Max height difference between I.U.		m	25	25	25
Splitting length without additional load		m	30	30	40
Additional load per metre of splitting		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
Sound pressure level	Silent mode	dB(A)	50	50	50
Treated air volume	Max	m^3/h	3360	3360	4500
Operating limits (outside temperature)	Cooling	°C	-15~46		
Operating limits (outside temperature)	Heating	°C	-15~24		

* The combinations with 2 indoor units have many limitations. Always check the proposed combination 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.

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