



R-407C

WS-SPE(I) SERIES

WATER SOURCE HEAT PUMP SPLIT UNIT



Standard Features:

Cooling capacity from 2.8 kW to 21.0 kW in 13 sizes

EER from 3.7 to 4.2

COP from 4.0 to 4.5

HP3C Digital controller with:

- Compressor Protection***
- Random Start***
- Fan speed control***

10mm reusable indoor unit filter

Flexible piping connections (left or right side)

Ultra slim profile (height from 251mm)

Options:

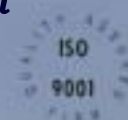
Stainless steel flexible hoses

Hot water coil

Air discharge muffler

1- stage electric heater

Low Temperature Geothermal Application



SPLIT TYPE WSHW

WS-SPE(I) SERIES

PRELIMINARY SPECIFICATIONS

Model		Indoor	WS-L009-SPE	WS-L013-SPE	WS-L016-SPE	WS-L019-SPE	WS-L024-SPE	WS-L027-SPE	WS-L030-SPE	WS-J036-SPE	WS-J043-SPE	WS-J052-SPE	WS-J062-SPE	WS-J072-SPE	WS-J086-SPE
		Outdoor	WS-L009-SPI	WS-L013-SPI	WS-L016-SPI	WS-L019-SPI	WS-L024-SPI	WS-L027-SPI	WS-L030-SPI	WS-J036-SPI	WS-J043-SPI	WS-J052-SPI	WS-J062-SPI	WS-J072-SPI	WS-J086-SPI
Cooling Capacity		kW	2.8	3.3	4.1	5.2	5.9	7.1	8.2	9.2	11.0	12.6	14.7	17.7	21.0
Sensible cooling capacity			2.5	2.9	3.9	4.6	5.2	6.2	7.2	8.1	9.6	11.0	12.9	15.5	18.4
Heating Capacity			3.3	4.2	4.8	6.5	7.2	8.8	9.7	11.7	12.5	16.0	20.5	22.0	23.5
Power Input	Cooling	W	720	880	1050	1400	1512	1900	2100	2280	2800	3300	3600	4450	5037
	Heating		750	1050	1200	1590	1750	2200	2300	2590	2900	3800	4880	5120	5277
EER		W/W	3.9	3.8	3.9	3.7	3.9	3.7	3.9	4.0	3.9	3.8	4.1	4.0	4.2
COP			4.4	4.0	4.0	4.1	4.1	4.0	4.2	4.5	4.3	4.2	4.2	4.3	4.5
Current	Cooling	A	3.55	4.1	4.6	6.3	7	8.4	9.3	3.7	4.75	5	6.6	8.7	9.9
	Heating		3.85	4.8	5.6	7.0	7.6	10.1	10.3	4	5.1	5.6	7.9	10	10.3
Electric heater		kW	1.0	1.0	2.0	3.0	4.0	4.0	4.0	6.0	7.0	8.0	10.0	10.0	10.0
Electric heater Current		A	4.5	4.5	9.1	13.6	18.2	18.2	18.2	9.1	10.6	12.1	15.2	15.2	15.2
Power Supply		V / Ph / Hz	220 - 240V / 1 / 50Hz						380V / 3 / 50Hz						
Noise Level	Indoor	dB(A)	38	38	38	38	38	38	40	40	43	41	45	52	52
	Outdoor		45	45	45	45	46	46	48	48	49	49	49	49	49
Air Flow		m ³ /h	510	580	700	795	950	1250	1430	1750	2000	2110	2500	3200	4000
Water Flow		m ³ /h	0.60	0.80	1.10	1.30	1.30	1.70	2.00	2.30	2.60	3.10	3.60	4.20	5.0
Pressure Drop		kPa	15.90	16.60	22.10	33.80	41.90	52.80	66.90	65.50	66.90	53.80	42.70	51.70	52.0
External Static Pressure		Pa	30	30	30	30	30	30	30	50	50	50	50	100	100
Compressor Type/No.			Rotary/1						Scroll/1						
Refrigerant			R22/R407C												
Charge		kg	0.5	0.65	0.7	0.9	0.9	1	1.3	1.5	1.35	1.85	1.85	2.15	2.8
Dimensions (LxWxH)	Indoor	mm	814x490x251	814x490x251	984x490x251	1114x490x251	1114x490x251	1114x490x251	1314x490x251	1664x490x251	1664x490x251	1924x490x251	1924x490x251	1314x800x405	1564x800x405
	Outdoor		600x293x399	600x293x399	600x293x399	600x313x459	600x313x459	650x310x500	650x310x500	650x310x500	800x410x540	800x410x540	800x410x540	800x410x540	850x450x600
Net Weight	Indoor	kg	18	19	20	21	23	25	37	37	39	41	42	82	90
	Outdoor		34	35	35	37	46	47	65	65	80	80	80	95	103
Size of drain pipe		mm	Rc 3/4						Rc 1						
Connecting type			Quick Couplings												
Condenser drain pipe			Rc 3/4												
Pipe Connection	Liquid pipe	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52	9.52	9.52	9.52	9.52	15.88	15.88
	Gas pipe		9.52	9.52	12.7	12.7	12.7	12.7	15.88	19.05	19.05	19.05	19.05	22.23	22.23

09V.1.0

Note:
 All capacities are based on: cooling: Inlet air temp. 27°C (DB+), 19°C (WB++); Inlet water temp. 30°C, Outlet water temp. 35°C.
 heating: Inlet air temp. 20°C (DB), 15°C (WB++); Inlet water temp. 20°C.



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