

Split Type

High Power Series



High water flow temperature

The temperature of water flow can be maintained at 60°C without using a backup heater, even when the outdoor temperature drops to -20°C.

* If you want to raise the temperature of the water supply to above the maximum temperature, use a backup heater to supplement the primary heater.



High COP

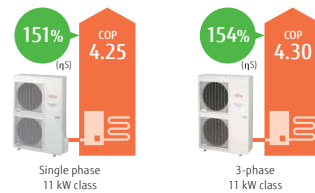
Heat pumps of WATERSTAGE™ ATW Systems work more efficiently and consume less energy than conventional heating systems.



*Temperature application: Heating temp. 35°C

Seasonal space heating energy efficiency (η_s)

Conditions: Outdoor Temp. 7°C Heating Temp. 35°C



Hydraulic unit:
WSYG140DG6/[3-phase] WSYK160DG9
Outdoor unit:
WOYG112LHT/WOYG140LCTA
[3-phase] WOYK112LCTA/WOYK140LCTA/
WOYK160LCTA



Specifications

Model Name	Hydraulic unit	WSYG140DG6	WSYG140DG6	WSYK160DG9	WSYK160DG9	WSYK160DG9
Capacity range	Outdoor unit	WOYG112LHT	WOYG140LCTA	WOYK112LCTA	WOYK140LCTA	WOYK160LCTA
7°C/35°C floor heating *1	Heating capacity	kW	11	14	11	14
			10.80	13.50	10.80	13.50
			2.54	3.23	2.51	3.20
2°C/35°C floor heating *1	Heating capacity	kW	11	14	11	14
			10.77	12.00	10.77	13.00
			3.44	3.87	3.40	4.15
-7°C/35°C floor heating *1	Heating capacity	kW	11	14	11	14
			10.38	11.54	10.38	12.20
			4.32	5.08	4.28	5.13
			2.40	2.27	2.43	2.38

Space heating characteristics**	°C	55	35	55	35	55	35	55	35	55	35
Temperature application		A+	A++	A+	A+	A+	A++	A+	A++	A+	A+
Energy efficiency class		9	11	11	13	9	11	11	13	13	14
Rated heat output (P _{rated})	kW	112	151	113	148	112	154	117	150	117	149
Seasonal space heating energy efficiency (η _s)	%	6,704	6,062	8,041	6,824	6,669	5,930	7,803	6,738	9,062	7,408
Annual energy consumption	kWh										
Sound power level	Hydraulic unit	46		46		46		46		46	
	Outdoor unit	68		69		69		68		71	

Hydraulic unit specifications		Single phase, ~230 V, 50 Hz		3-phase, ~400 V, 50 Hz	
Power source		800 × 450 × 457		800 × 450 × 457	
Dimensions H × W × D	mm	42		42	
Weight (Net)	kg	19.5/39.0		24.4/48.7	
Water circulation	L/min	16		16	
Buffer tank capacity	L	8		8	
Expansion vessel capacity	L	60		60	
Water flow temperature range	Max. °C	Ø25.4/Ø25.4		Ø25.4/Ø25.4	
Water pipe connection diameter	mm	6.0 (3.0 kW × 2 pcs.)		9.0 (3.0 kW × 3 pcs.)	
Backup heater	Capacity				

Outdoor unit specifications		Single phase, ~230 V, 50 Hz		3-phase, ~400 V, 50 Hz	
Power source		22.0		25.0	
Current	Max.	9.0		9.5	
Dimensions H × W × D	mm	1,290 × 900 × 330		1,290 × 900 × 330	
Weight (Net)	kg	92		99	
Refrigerant	Type (Global Warming Potential)	R410A (2,088)		R410A (2,088)	
Additional refrigerant charge	Charge	2.50		2.50	
	g/m	50		50	
Connection pipe	Diameter	Liquid	mm	Ø9.52	
		Gas	mm	Ø15.88	
	Length	Min./Max.	m	5/20	
	Length (Pre-charge)		m	15	
Operating range	Height difference	Max.	m	15	
	Heating	°C		-25 to 35	

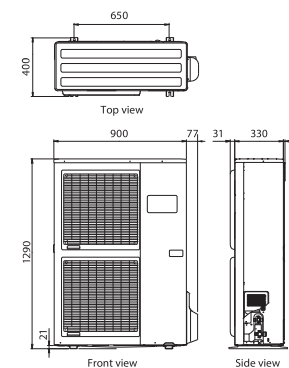
*1: Heating capacity, input power, and COP are measured using the EN14511 standard. Actual usage environments, such as the operating modes of the heating equipment, room temperature, and controller settings, may cause differences in values between those listed in the catalog and the actual performance characteristics.

*2: Information about ERP can be downloaded from our website at www.fujitsu-general.com/global/support/downloads/search/

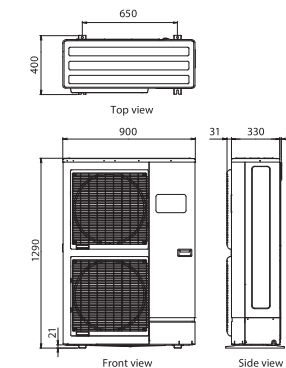
Dimensions

(Unit: mm)

Outdoor unit:
 Single phase: WOYG112LHT/WOYG140LCTA



3-phase: WOYK112LCTA/WOYK140LCTA/WOYK160LCTA



Hydraulic unit:
 Single phase: WSYG140DG6
 3-phase: WSYK160DG9

