

# Split DHW Integrated 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

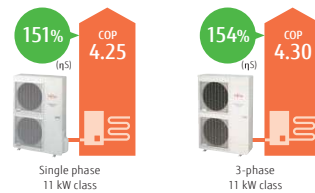
Heat pumps of WATERSTAGE™ ATW Systems work more efficiently and consume less energy than conventional heating systems.



\*Temperature application: Heating temp. 35°C

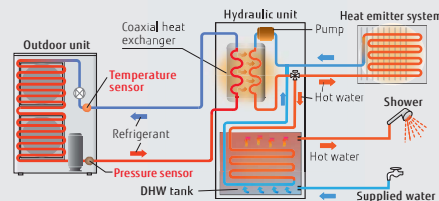
### Seasonal space heating energy efficiency (η<sub>s</sub>)

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



## Optimized refrigerant cycle operation

The High Power Series deliver high performance and efficiency with twin sensors and hot water heating technology.



Hydraulic unit:  
**WGYG140DG6/[3-phase] WGYK160DG9**  
 Outdoor unit:  
**WOYG112LHT/WOYG140LCTA**  
**[3-phase] WOYK112LCTA/WOYK140LCTA/**  
**WOYK160LCTA**



### Specifications

Model Name	Hydraulic unit Outdoor unit		WGYG140DG6 WOYG112LHT	WGYG140DG6 WOYG140LCTA	WGYK160DG9 WOYK112LCTA	WGYK160DG9 WOYK140LCTA	WGYK160DG9 WOYK160LCTA		
<b>Capacity range</b>			11	14	14	14	15		
7°C/35°C floor heating *1	Heating capacity	kW	10.80	13.50	10.80	13.50	15.17		
	Input power		2.54	3.23	2.51	3.20	3.70		
	COP		4.25	4.18	4.30	4.22	4.10		
2°C/35°C floor heating *1	Heating capacity	kW	10.77	12.00	10.77	13.00	13.50		
	Input power		3.44	3.87	3.40	4.15	4.34		
	COP		3.13	3.10	3.17	3.13	3.11		
-7°C/35°C floor heating *1	Heating capacity	kW	10.38	11.54	10.38	12.20	13.50		
	Input power		4.32	5.08	4.28	5.13	5.40		
	COP		2.40	2.27	2.43	2.38	2.50		
<b>Space heating characteristics*2</b>									
Temperature application	°C	55	35	55	35	55	35	55	35
Energy efficiency class		A+	A++	A+	A+	A++	A+	A+	A+
Rated heat output (P <sub>nom</sub> )	kW	9	11	11	13	9	11	11	13
Seasonal space heating energy efficiency (η <sub>s</sub> )	%	112	151	113	148	112	154	117	150
Annual energy consumption	kWh	6,704	6,062	8,041	6,824	6,669	5,930	7,803	6,738
Sound power level	Hydraulic unit	dB(A)	46	46	46	46	46	46	46
	Outdoor unit		68	69	69	68	68	70	68
<b>Domestic hot water characteristics*2</b>									
Load profile								L	
Energy efficiency class								A	
Energy efficiency (η <sub>h</sub> )	%							88	
Annual electricity consumption	kWh							1166	
<b>Hydraulic unit specifications</b>									
Power source			Single phase, ~230 V, 50 Hz			3-phase, ~400 V, 50 Hz			
Dimensions H × W × D	mm		1,840 × 648 × 698						
Weight (Net)	kg		152						
Water circulation	Min./Max.	L/min	19.5/39.0	24.4/28.7	19.5/39.0	24.4/28.7	27.4/54.8		
DHW capacity	L		190						
Hot water heater capacity	kW		1.5						
Buffer tank capacity	L		16						
Expansion vessel capacity	L		12						
Water flow temperature range	Max.	°C	60						
Water pipe connection diameter	Flow/Return	mm	Ø25.4/Ø25.4						
Hot water pipe connection diameter		mm	Ø19.05						
Backup heater	Capacity	kW	6.0 (3.0 kW × 2 pcs.)			9.0 (3.0 kW × 3 pcs.)			
<b>Outdoor unit specifications</b>									
Power source			Single phase, ~230 V, 50 Hz			3-phase, ~400 V, 50 Hz			
Current	Max.	A	22.0	25.0	9.0	9.5	10.5		
Dimensions H × W × D	mm		1,290 × 900 × 330						
Weight (Net)	kg		92			99			
Refrigerant	Type (Global Warming Potential)		R410A (2,088)						
	Charge	kg	2.50						
Additional refrigerant charge	Liquid	g/m	50						
	Gas	g/m	89.52						
Connection pipe	Diameter	mm	Ø16.88						
	Length	m	5/20						
	Length (Pre-charge)	m	15						
Height difference	Max.	m	15						
	Heating	°C	-25 to 35						

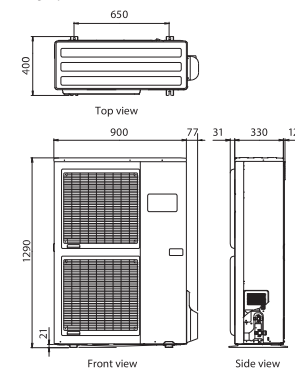
\*1: Heating capacity, input power, and COP are measured using the EN14511 standard. Actual usage environments, such as the operating modes of the heating equipment, room temperature, and controller settings, may cause differences in values between those listed in the catalog and the actual performance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

\*2: Information about EIP can be downloaded from our website at [www.fujitsu-general.com/global/support/downloads/search/](http://www.fujitsu-general.com/global/support/downloads/search/)

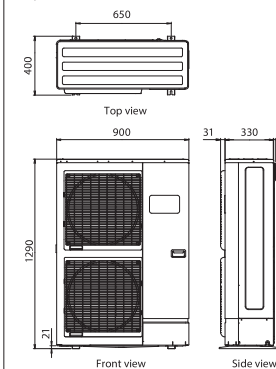
### Dimensions

(Unit: mm)

**Outdoor unit:**  
 Single phase: WOYG112LHT/WOYG140LCTA



3-phase: WOYK112LCTA/WOYK140LCTA/WOYK160LCTA



**Hydraulic unit:**  
 Single phase: WGYG140DG6  
 3-phase: WGYK160DG9

