

PRODUCT LINEUP

S

SPLIT TYPE



High Power series

High Performance

- High leaving water temperature
- High heating capacity
- High COP
- Wide operation range

Comfort Control

- Automatic heating curve operation
- Auto-changeover
- Cooling operation
- Quick recovery from defrost operation
- Backup heater operation

Flexible Installation

- Max.Piping Length: 20m
- Max.Height Difference: 15m

Energy Saving

- Programmable timer

Safety Function

- Anti-legionella function
- Anti-freeze function
- Emergency operation
- Error/Maintenance alarm

Single Phase power supply

11 kW 14 kW



Outdoor unit
WOYG112LHT
WOYG140LCTA



Hydraulic indoor unit
WSYG140DG6

3 Phase power supply

11 kW 14 kW 16 kW



Outdoor unit
WOYK112LCTA
WOYK140LCTA
WOYK160LCTA

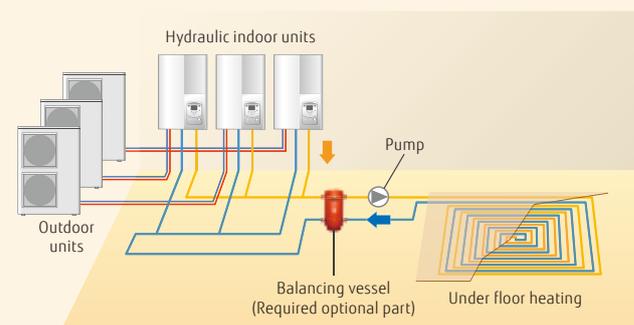


Hydraulic indoor unit
WSYK160DG9



*:Check the validity of label at
www.ehpa.org/quality/quality-label/

Cascade connection





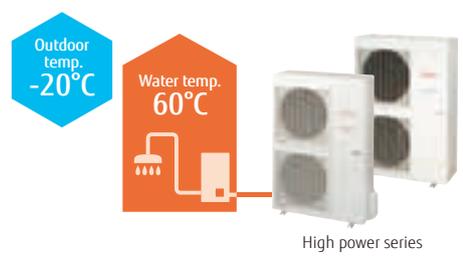
High performance

High Power models realize high leaving water temperature and high heating capacity even at low ambient temperature by newly developed "Linear Control Injection Technology". It is possible to provide high water temperature and warm rooms in cold regions.

High Leaving Water Temperature

High leaving water temperature of 60°C is kept even when outdoor temperature is down to -20°C without using backup heaters.

* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.



High COP

Air to water heat pumps work with much more efficiency and save more energy than a traditional heating system.



*Temperature application : Heating Temp. 35°C.

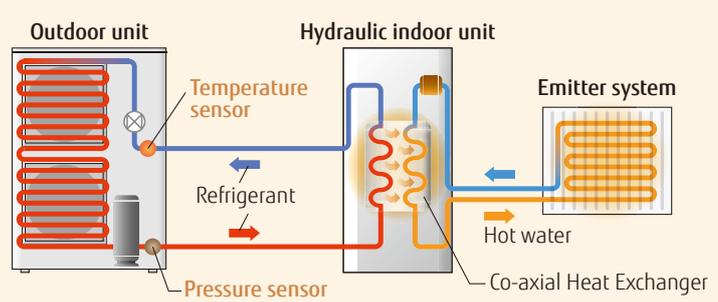
Seasonal space heating energy efficiency (η_s)



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

Optimization of refrigerant cycle operation

High Power model realizes high performance and high efficiency by adopting twin sensors and control technology corresponding to hot water heating.



for Split Type High Power Series

Specifications

Model Name	Hydraulic indoor unit Outdoor unit	WSYG140DG6 WOYG112LHT	WSYG140DG6 WOYG140LCTA	WSYK160DG9 WOYK112LCTA	WSYK160DG9 WOYK140LCTA	WSYK160DG9 WOYK160LCTA	
Capacity range		11	14	11	14	16	
7°C/35°C floor heating *1	Heating capacity	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	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	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	
Space heating characteristics*2							
Temperature application	°C	55	35	55	35	55	
Energy efficiency class		A+	A++	A+	A+	A+	
Rated heat output (P _{rated})	kW	9	11	11	13	14	
Seasonal space heating energy efficiency (η _s)	%	112	151	113	148	112	
Annual energy consumption	kWh	6,704	6,062	8,041	6,824	6,669	
Sound power level	Hydraulic indoor unit	46		46		46	
	Outdoor unit	68		69		71	
Hydraulic indoor unit Specification							
Power source		Single-phase, 230 V 50 Hz			3-phase, 400 V 50 Hz		
Dimensions H×W×D	mm	800 × 450 × 457			800 × 450 × 457		
Weight (Net)	kg	42			42		
Water circulation	Min/Max	L/min	19.5/39.0	24.4/48.7	19.5/39.0	24.4/48.7	
Buffer tank capacity	L		16		16		
Expansion vessel capacity	L		8		8		
Leaving water temperature range	Max	°C	60			60	
Water pipe connection diameter	Flow/Return	mm	Ø 25.4/Ø 25.4			Ø 25.4/Ø 25.4	
Backup heater	Capacity	kW	6.0(3.0kW×2pcs.)			9.0(3.0kW×3pcs.)	
Outdoor unit specification							
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	
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)					
Additional refrigerant charge amount	Charge	kg	2.50				
		g/m	50				
Connection pipe	Diameter	Liquid	Ø 9.52				
		Gas	Ø 15.88				
	Length	Min/Max	5/20				
		Length(Pre-charge)	15				
Height difference	Max	15					
Operation range	Heating	°C	-25 to 35				

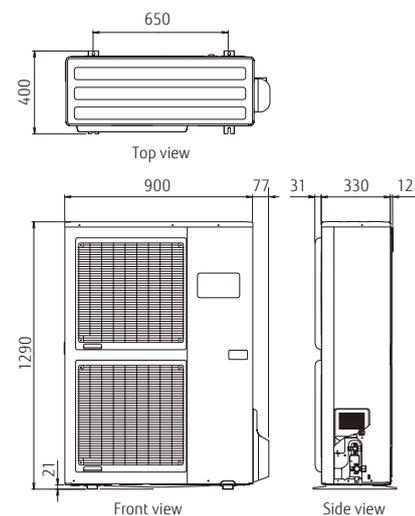
*1: The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

*2: All information of ErP can be available for downloaded from <https://www.fujitsu-general.com/global/support/downloads/search/index.html>

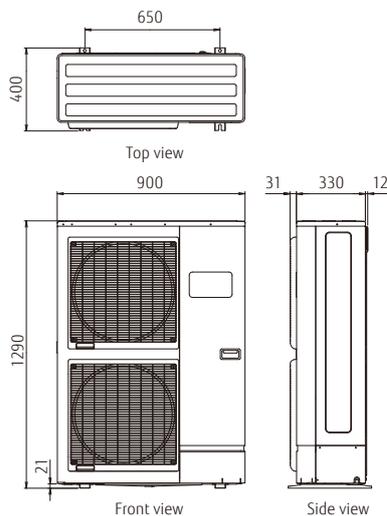
Dimensions

Outdoor Unit:

Single Phase: WOYG112LHT/WOYG140LCTA



3 Phase: WOYK112LCTA/WOYK140LCTA/WOYK160LCTA



Hydraulic Indoor Unit:

Single Phase: WSYG140DG6
3 Phase: WSYK160DG9

