

# 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 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

151% (η<sub>s</sub>)

COP 4.25

Single phase  
11 kW class

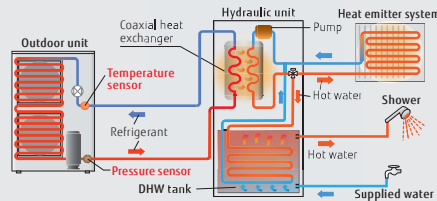
154% (η<sub>s</sub>)

COP 4.30

3-phase  
11 kW class

## 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<br>Outdoor unit  | WGYG140DG6<br>WOYG112LHT    | WGYG140DG6<br>WOYG140LCTA | WGYK160DG9<br>WOYK112LCTA | WGYK160DG9<br>WOYK140LCTA | WGYK160DG9<br>WOYK160LCTA |
|--|---------------------------------|-----------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| <b>Capacity range</b>                                      |                                 | 11                          | 14                        | 14                        | 16                        | 16                        |
| 7°C/35°C floor heating*1                                   | Heating capacity                | 10.80                       |                           | 13.50                     |                           | 15.17                     |
|  | Input power                     | 2.54                        |                           | 3.23                      |                           | 3.70                      |
|  | COP                             | 4.25                        |                           | 4.18                      |                           | 4.10                      |
| 2°C/35°C floor heating*1                                   | Heating capacity                | 10.77                       |                           | 12.00                     |                           | 13.50                     |
|  | Input power                     | 3.44                        |                           | 3.87                      |                           | 4.34                      |
|  | COP                             | 3.13                        |                           | 3.10                      |                           | 3.11                      |
| -7°C/35°C floor heating*1                                  | Heating capacity                | 10.38                       |                           | 11.54                     |                           | 13.50                     |
|  | Input power                     | 4.32                        |                           | 5.08                      |                           | 5.40                      |
|  | COP                             | 2.40                        |                           | 2.27                      |                           | 2.50                      |
| -7°C/55°C Radiator*1                                       | Heating capacity                | 7.57                        |                           | 9.20                      |                           | 11.00                     |
|  | Input power                     | 4.57                        |                           | 5.08                      |                           | 6.29                      |
|  | COP                             | 1.66                        |                           | 1.81                      |                           | 1.75                      |
| <b>Space heating characteristics**</b>                     |                                 | °C                          |                           | °C                        |                           | °C                        |
| Temperature application                                    |                                 | 55                          | 35                        | 55                        | 35                        | 55                        |
| Energy efficiency class                                    |                                 | A+                          | A++                       | A+                        | A+                        | A+                        |
| Rated heat output (P <sub>rated</sub> )                    | kW                              | 9                           | 11                        | 11                        | 13                        | 14                        |
| Seasonal space heating energy efficiency (η <sub>s</sub> ) | %                               | 112                         | 151                       | 113                       | 148                       | 112                       |
| Annual energy consumption                                  | kWh                             | 6,704                       | 6,062                     | 8,041                     | 6,824                     | 6,669                     |
| Sound power level  | Hydraulic unit / Outdoor unit   | 46 / 68                     | 46 / 69                   | 46 / 69                   | 46 / 68                   | 46 / 71                   |
| <b>Domestic hot water characteristics**</b>                |                                 |                             |                           |                           |                           |                           |
| Load profile   |                                 |                             |                           |                           |                           | L                         |
| Energy efficiency class                                    |                                 |                             |                           |                           |                           | A                         |
| Energy efficiency (η <sub>wh</sub> )                       | %                               |                             |                           |                           |                           | 88                        |
| Annual electricity consumption                             | kWh                             |                             |                           |                           |                           | 1166                      |
| <b>Hydraulic unit specifications</b>                       |                                 | Single phase, ~230 V, 50 Hz |                           | 3-phase, ~400 V, 50 Hz    |                           |                           |
| Power source   |                                 |                             |                           |                           |                           |                           |
| 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                       |                           |                           |
| Electrical heater capacity                                 | Heating / DHW                   | 6.0 (3.0 kW × 2 pcs.)       |                           | 1.5                       |                           | 9.0 (3.0 kW × 3 pcs.)     |
| Buffer tank capacity                                       | L                               |                             |                           | 16                        |                           |                           |
| Expansion vessel capacity                                  | L                               |                             |                           | 12                        |                           |                           |
| Water flow temperature range                               | Max. °C                         |                             |                           | 60                        |                           |                           |
| Water pipe connection diameter                             | Flow/Return                     |                             |                           | Ø25.4/Ø25.4               |                           |                           |
| Hot water pipe connection diameter                         | mm                              |                             |                           | Ø19.05                    |                           |                           |
| <b>Outdoor unit specifications</b>                         |                                 | Single phase, ~230 V, 50 Hz |                           | 3-phase, ~400 V, 50 Hz    |                           |                           |
| Power source   |                                 |                             |                           |                           |                           |                           |
| 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)             |                           |                           |
| Additional refrigerant charge                              | Charge                          | 2.50                        |                           | 5.0                       |                           |                           |
| 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                 |                           |                           |

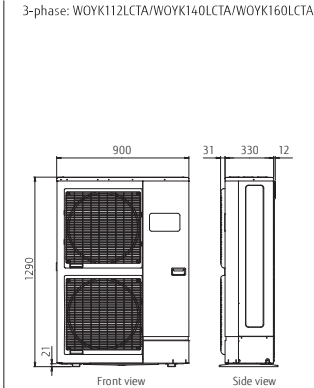
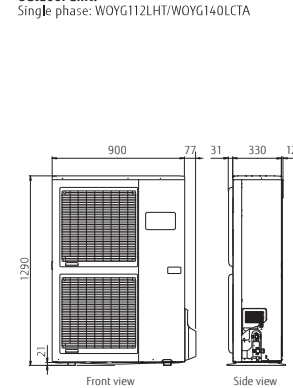
\*1: Heating capacity, input power, and COP are measured using the EN14511 standard. Actual usage environments, such as the operating modes of the heating equipment, room temperature, and controller settings, may cause differences in values between those listed in the catalog and the actual performance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

\*2: Information about 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



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

