

Options/accessories

- Soft starter*
- Master/slave operation*
- External disconnect handle*
- Condenser insulation*
- Low or high-pressure fixed or variable-speed single-pump hydronic module, evaporator side*
- Low or high-pressure fixed or variable-speed single-pump hydronic module, condenser side*
- JBus, BacNet and LON gateways*
- Built-in DHW + space heating control*
- High-temperature water production, condenser side, with glycol solution on the evaporator side*
- Low sound level*
- Units stackable*
- Customer water connection at the top of the unit*
- Evaporator and condenser screw or welded connection sleeves*
- Remote user interface*
- Heating System Manager types A, B and C: control of comfort heating (one or more zones) and domestic hot water production in installations where the 61WG is backed up by auxiliary boilers, electric resistance heaters or a district heating system**
 - * Option

** Accessory



Pro-Dialog+ operator interface

Features

- Eleven sizes with nominal heating capacities from 29 to 117 kW.
- Aquasnap heat pumps designed for commercial (offices, hotels etc.), residential (houses, apartments etc.) or industrial applications (domestic hot-water production etc.).
- Optimised for heating applications leaving water temperature up to 65°C (without auxiliary heating), evaporator temperature down to –5°C and a COP of above 5.
- Units are equipped with the latest generation R-410A scroll compressor, optimised for high-performance.
- Large number of options: hydronic kits with or without variable water flow rate, reinforced sound insulation, stacking and connection of two units, or operation with low-temperature glycol solution down to -12°C. Unique combination of high performance and functionality in an exceptionally compact chassis.
- The high temperature makes these units compatible with most heat sources, both in new and refurbished buildings and permits domestic hot water production in significant quantities (dual setpoint).
- Units use weather compensation control and control four supplementary electric heating stages or a relief boiler.
- Complete hydronic kit for both evaporator and condenser with different levels of available pressure, with variable or fixed speed.
- Needle valve control for easier transition from the comfort mode to domestic hot water production using a collection tank (not supplied).
- Reversibility by water flow inversion in the system.
- Pro-Dialog+ control and compatibility with the Aquasmart system
- Units available with connections at the top or at the rear.
- Easy installation: small footprint, ideal for refurbished buildings, allows access in very tight plant rooms.
- The variable water flow (VWF) technology of the variable-flow pump, optimises system operation and enhances energy efficiency.
- Standard low sound level allows installation in any building type.

Physical data

	61WG		020	025	030	035	040	045	050	060	070	080	090
A CONTRACT	Heating application as per EN14511-3: 2011 - condition 1												
¥	Heating capacity	kW	27.7	33.1	36.7	42.7	48.7	54.8	66.4	75.7	84.2	95.3	109
	COP	kW/kW	4.35	4.34	4.20	4.27	4.32	4.36	4.51	4.32	4.35	4.27	4.31
	Eurovent class		В	В	В	В	В	В	Α	В	В	В	В
	Heating application (1)												
	Heating capacity	kW	27.6	32.9	36.5	42.5	48.5	54.5	66.2	75.4	83.8	94.9	109
	COP	kW/kW	4.53	4.53	4.39	4.47	4.53	4.58	4.67	4.47	4.51	4.44	4.47
ALEXAND.	Heating application as per EN14511-3: 2011 - condition 2												
¥	Heating capacity	kW	29.0	34.4	38.3	44.2	50.2	57.2	68.6	78.2	88.4	100	117
	COP	kW/kW	5.42	5.29	5.21	5.29	5.34	5.32	5.49	5.36	5.46	5.28	5.33
	Eurovent class		Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α
	Heating application (1)												
	Heating capacity	kW	28.9	34.3	38.1	44.1	49.9	57.0	68.3	77.9	88.1	100	116
	COP	kW/kW	5.75	5.62	5.56	5.65	5.73	5.69	5.76	5.63	5.76	5.59	5.65
	Operating weight	kg	191	200	200	207	212	220	386	392	403	413	441
	Compressors		Hermetic	scroll 48.3 r/s									
	Quantity		1	1	1	1	1	1	2	2	2	2	2
	Number of capacity stages		1	1	1	1	1	1	2	2	2	2	2
	Minimum capacity	0/0	100	100	100	100	100	100	50	50	50	50	50
	Dimensions, standard unit**												
	Width	mm	600	600	600	600	600	600	880	880	880	880	880
	Depth	mm	1044	1044	1044	1044	1044	1044	1474	1474	1474	1474	1474
	Height	mm	901	901	901	901	901	901	901	901	901	901	901

NOTE: For the conditions please refer to page 69.

- Weight shown is a guideline only. To find out the unit refrigerant charge, please refer to the unit nameplate. The dimensions shown are for the standard unit. For other unit types please refer to the dimensional drawings

R-410A

Pro-Dialog+

Plate heat exchanger

Direct-expansion plate heat exchanger

Electrical data

Refrigerant*

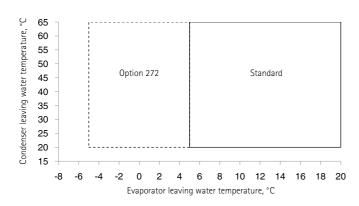
Control

Evaporator

61WG		020	025	030	035	040	045	050	060	070	080	090
Power circuit												
Nominal voltage	V-ph-Hz	400-3-5	50 ± 10%									
Control circuit supply	24 V, via internal transformer											
Maximum start-up current draw (Un)*												
Standard unit	Α	98	142	142	147	158	197	162	163	171	185	228
Unit with electronic starter option	Α	53.9	78.1	78.1	80.9	86.9	108.4	98	99	105	114	139
Maximum operating power input**	kW	9.7	11.4	12.7	14.6	16.5	18.6	22.8	25.4	29.2	33	37.2
Maximum operating current draw (Un)***	А	16.1	19.6	21.1	24.4	26.7	30.9	39.2	42.2	48.8	53.4	61.8

- Maximum instantaneous start-up current at operating limit values (maximum operating current of the smallest compressor(s) + fan current + locked rotor current of the largest compressor).
- Maximum power input at the unit operating limits.
- Maximum unit operating current at maximum unit power input and 400 V.

Operating range





Pro-Dialog+ operator interface

- 61WG standard unit
- - 61WG unit with option 272 (brine to water)
 - Option 272: Condenser-side high-temperature water production, with glycol solution on the evaporator side

