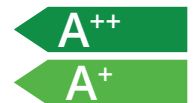




- Fujitsu - Waterstage
- Air/water split
- Hydromodule + DHW
- R410a



A2W Super High Power heat pumps with domestic hot water <math><60^{\circ}\text{C}</math> type WGYG/WGYK SHP

Air/water DC inverter controlled heat pump. The outside air is the energy source for this heat pump. This energy is transferred by the heat pump to the water in the heating circuit(s). Thanks to the "Liquid injection technology" it is possible to reach a water temperature of 60°C even at an outside temperature of -20°C . The fan and compressor speeds are modulated according to the heat requirements.

Brand

- Fujitsu - Airstage

Application

- Heating for residential and commercial applications
- Heating by means of radiators, convectors, floor, wall and ceiling heating
- Production of domestic hot water
- Ideal for the renovation market

Composition

- High-quality coaxial heat exchanger that ensures efficient defrosting (even at extreme outdoor temperatures)
- Integrated boiler (190 liters)
- Buffer tank (25 litres)
- User-friendly Siemens controller
- Energy-efficient circulation pump
- Expansion vessel (12 litres)
- Safety valve (3 bar)
- Electrical back-up resistance hydro unit (2 x 3 kW for WGYG/3 x 3 kW for WGYK)
- Electrical back-up resistance domestic hot water (1 x 1.5 kW)
- Outside temperature sensor
- Water pressure gauge

Refrigerant

- R410A

Specifications

- Split system
- Single-phase and three-phase
- 1 device for 2 applications: heating and domestic hot water
 - Heating assured to -20°C outside temperature
 - Water temperature up to 60°C at -20°C outside temperature (without using the electrical resistance)
- Liquid Injection Technology: thanks to this technology, it is possible to maintain power and increase efficiency to an unprecedented level
- Intelligent heating curve (adjustment)
- Control of 2 heating circuits
- Can be connected to the PC via an optional web server for remote control of the heat pump
- Approved according to EN 14511-2 and EN 14511-3
- Integrated user-friendly operation, available in Dutch and French, among others

Accessories

- Room thermostat, type **UTW-C55XA**
- Room thermostat RF, type **UTW-C58XD + UTW-MRCXD**
- Remote control with room temperature sensor, type **UTW-C74TXF**
- Remote control with room temperature and humidity sensor, type **UTW-C74HXF**
- Kit for 2nd external circuit WGYA(G)(K) Type **UTW-KZDXJ**
- External boiler connection kit WGYA(G)(K).Type **UTW-KBSXJ**
- Low Noise kit, type **UTW-KLNXE**
- Integrated web server, type **UTW-KW1XD**
- External boiler kit, type **UTW-KDWXD**
- Outdoor sensor RF, type **UTW-MOSXD + UTW-MRCXD**
- RF module, type **UTW-MRCXD**
- Insulation kit for cooling, type **UTW-KCLXD**
- Hydraulic decoupling bottle, type **UTW-TEVXA**
- External control kit, type **UTY-XWZXZ2**
- Pump high head, type **PHFXG**

Applicable outdoor units

Waterstage Super High Power Fujitsu outdoor unit

- Type **WOYG 160 LJL**(single-phase)
- Type **WOYK 150 LJL** (three-phase)
- Type **WOYK 170 LJL** (three-phase)

Startup

- **Startup by CAIROX BELGIUM is highly recommended**

Technical data					
Indoor unit*			WGYG 160 DJ6	WGYK 170 DJ9	WGYK 170 DJ9
Associated Fujitsu outdoor unit*			WOYG 160 LJL	WOYK 150 LJL	WOYK 170 LJL
Capacity	Heating (-10°C/+35°C)*	kW	14.8	14.05	15.04
	Heating (-10°C/+55°C)*	kW	11.43	12.55	13.44
Heating	Nom. capacity (+7°C/+35°C)*	kW	16	15	17
	Min - Max capacity (+7°C/+35°C)	kW	(6,59-22,93)	(6,63-22,7)	(6,78-24,27)
	Absorbed electric power	kW	3.86	3.46	4.1
	COP		4.14	4.33	4.15
	Nom. capacity (+2°C/+35°C)*	kW	13.3	13.2	13.5
	Absorbed electric power	kW	4.25	4.06	4.27
	COP		3.13	3.25	3.16
	Nom. capacity (+7°C/+55°C)*	kW	14.5	13.2	15
	Absorbed electric power	kW	5.58	4.77	5.49
	COP		2.6	2.77	2.73
Liquid injection (compressor)			Yes		
Backup heating resistance			Yes (2 x 3kW)	Yes (3 x 3kW)	
Cooling			Optional		
Seasonal efficiency η_s heat pump		35°C/55°C	163/125	164/130	161/130
Annual consumption heat pump		kWh 35°C/55°C	8014/8757	8606/9915	9059/10232
Energy class heat pump		35°C/55°C	A++/A++	A++/A++	A++/A++
Seasonal efficiency η_s DHW			109	109	109
Annual consumption DHW		kWh	941	941	941
Energy class DHW			A+	A+	A+
Refrigerant (GWP)			R410A (2088)	R410A (2088)	R410A (2088)
Indoor unit	Nominal water flow rate	l/min	57.8	54.2	61.4
	Minimal water flow rate	l/min	26.4	24	27.3
	Max. operational working pressure (heating)	Bar	3		
	Max. operational working pressure (DHW tank)	Bar	5.5		
	Min/Max. water outlet	°C	+8 / +60°C		
	Water volume	L	25		
	Expansion vessel***	L	12		
	Sound level @ 1m	dB	46		
	Dimensions (H x W x D)	mm	1840 x 648 x 698		
	Weight	kg	152		
	Volume DHW tank	L	190		
	DHW tank (electrical resistance)	kW	1.5		
	Colour		White (RAL 9003)		
	Hydraulic connection diameter	inch	2 x 1"		
	Main pipe diameter	inch	1"		
	Condensate drain pipe diameter	mm	32		
	Relative humidity limit	%	15-95		
Type of heat exchanger		Coaxial heat exchanger			
Electrical - hydraulic module	Power supply hydraulic module	V	230V/1Ph	400V/3Ph+N	400V/3Ph+N
	Max. absorbed power (backup resistance)	A	28,2	14	14
	Automatic fuse (slow)	A	32	20	20
	Power supply cable section of backup resistance	mm ²	3G6	5G2,5	5G2,5
Section between indoor unit and outdoor unit	mm ²	4G1,5	4G1,5	4G1,5	
Electrical - DHW	Power supply DHW resistance	V	230V/1Ph	230V/1Ph	230V/1Ph
	Max. absorbed power (backup resistance)	A	7	7	7
	Automatic fuse (slow)	A	16	16	16
	Power supply cable section of backup resistance	mm ²	3G2,5	3G2,5	3G2,5
Technical	Refrigerant pipes indoor/outdoor	inch	3/8 - 5/8	3/8 - 5/8	3/8 - 5/8
	Standard prefilled refrigerant	g (CO ₂ eq-T)	3800 (10,6)	3800 (10,6)	3800 (10,6)
	Prefilled piping length	m	15	15	15
	Additional refrigerant R410A	g/m	50	50	50
	Min./max. piping length	m	5/30	5/30	5/30
	Max. height difference	m	25/15	25/15	25/15
Expansion		Outdoor unit	Outdoor unit	Outdoor unit	

* Specifications and design can be modified for further improvement without prior notice

** Capacities measured according to EN14511 measuring method

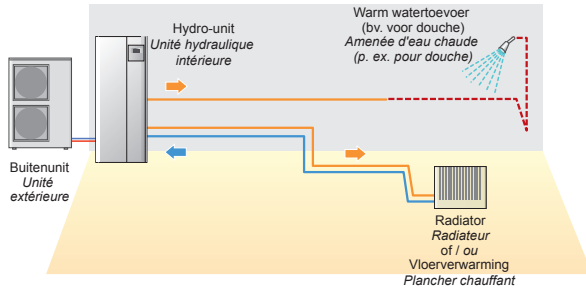
*** The size of the expansion vessel has to be determined in accordance with the total water volume of the system

1 verwarmingscircuit & SWW

1 circuit de chauffage & ECS

Radiator + SWW

Radiateur + ECS



2 circuits met gelijktijdige verwarming (individuele regeling) + SWW

2 circuits de chauffage simultanés (réglage individuel)

+ ECS

Radiator + SWW

Radiateur + ECS

