



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



A2W Super High Power heat pumps <60°C type WSYG/WSYK 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)
- Buffer tank (25 litres)
- User-friendly Siemens controller
- Energy-efficient circulation pump
- Expansion vessel (10 litres)
- Safety valve (3 bar)
- Electrical back-up resistance hydro unit (2 x 3 kW for WSYG / 3 x 3 kW for WSYK)
- 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

- a electrical resistance)
- Liquid Injection Technology: thanks to this technology, it is possible to maintain power and increase efficiency to an unprecedented height of A++
- 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 controller, also 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 WSYA/WSYG/WSYK, type **UTW-KZSXJ**
- External boiler connection kit WSYA/WSYG/WSYK, type **UTW-KBSXJ + UTW-KREXD**
- Low Noise kit, type **UTW-KLNXE**
- Integrated web server, type **UTW-KW1XD**
- External heater 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 **UTW-KREXD**
- External control kit, type **UTY-XWZXZ2**
- Pump high head, type **PHFXG**

Applicable outdoor units

Waterstage Comfort Fujitsu outdoor unit

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

Applicable boiler

- Warm water heater 300 liter, type **SANI+ 300**
- Warm water heater 500 liter, type **SANI+ 500**

Startup

- **Start-up by CAIROX BELGIUM is strongly recommended**

Technical data					
Indoor unit*			WSYG 160 DJ6	WSYK 170 DJ9	WSYK 170 DJ9
Associated 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
Ecolabel heat pump		35°C/55°C	A++/A++	A++/A++	A++/A++
Refrigerant (GWP)			R410A (2088)	R410A (2088)	R410A (2088)
Indoor unit	Maximum water flow rate	l/min	57.8	54.2	61.4
	Minimum 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 output	°C		+8 / +60°C	
	Water volume	L		25	
	Expansion vessel***	L		10	
	Sound level @ 1m	dB		46	
	Dimensions (H x W x D)	mm		805x450x471	
	Weight	kg		52.5	
	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	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
Technical	Refrigerant pipes indoor/outdoor	inch	3/8 - 5/8	3/8 - 5/8	3/8 - 5/8
	Standard prefilled refrigerant	g (CO2eq-T)	2500 (5,2)	2500 (5,2)	2500 (5,2)
	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 (Outdoor unit above/under)	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

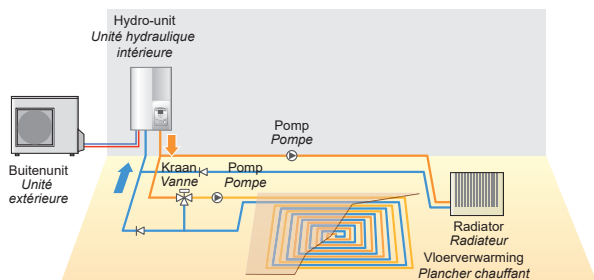
** Capacities measured according to EN14511 measuring method

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

Split-systeem Système split

2 circuits met gelijktijdige verwarming (individuele regeling)
2 circuits de chauffage simultanés (réglage individuel)

Vloerverwarming + radiator
Plancher chauffant + radiateur



Ketel verbonden met verwarming (ketel + verwarming)
Boiler raccordé au chauffage (boiler + chauffage)

