

Product fiche according to Commission Delegated Regulation (EU) 811/2013

Model	Hydraulic unit	WSYK160DG9	WGYK160DG9	WSYK160DG9	WGYK160DG9	WSYK160DG9	WGYK160DG9	WSYK160DG9	WGYK160DG9					
	Outdoor unit	WOYK112LCTA		WOYK140LCTA		WOYK160LCTA								
Temperature application	°C	55	35	55	35	55	35	55	35	55	35	55	35	
Declared load profile		—	—	L	L	—	—	L	L	—	—	L	L	
Seasonal space heating energy efficiency class		A+	A++	A+	A++	A+	A++	A+	A++	A+	A++	A+	A++	
Water heating energy efficiency class		—	—	A	A	—	—	A	A	—	—	A	A	
Rated heat output	kW	9	11	9	11	11	13	11	13	13	14	13	14	
Supplementary heater	kW	9												
Annual energy consumption	kWh	6669	5930	6669	5930	7803	6738	7803	6738	9062	7408	9062	7408	
Annual electricity consumption	kWh	—	—	1166	1166	—	—	1166	1166	—	—	1166	1166	
Annual fuel consumption	GJ	Not applicable												
Seasonal space heating energy efficiency	%	112	154	112	154	117	150	117	150	117	149	117	149	
Water heating energy efficiency	%	—	—	88	88	—	—	88	88	—	—	88	88	
Sound power level	Hydraulic unit	dB	46	46	46	46	46	46	46	46	46	46	46	
Work only during off-peak hours		Not applicable												
Specific precautions in assembled, installed or maintained		Refer to the installation and operating manuals.												
Rated heat output	Colder climate	kW	12	15	12	15	15	17	15	17	17	18	17	18
	Warmer climate	kW	9	11	9	11	10	12	10	12	11	13	11	13
Annual energy consumption	Colder climate	kWh	11554	10911	11554	10911	13692	12567	13692	12567	16468	14136	16468	14136
	Warmer climate	kWh	3450	2804	3450	2804	3643	3141	3643	3141	4040	3571	4040	3571
Annual electricity consumption	Colder climate	kWh	—	—	1320	1320	—	—	1320	1320	—	—	1320	1320
	Warmer climate	kWh	—	—	1166	1166	—	—	1166	1166	—	—	1166	1166
Seasonal space heating energy efficiency	Colder climate	%	100	124	100	124	100	122	100	122	100	119	100	119
	Warmer climate	%	134	200	134	200	134	192	134	192	138	185	138	185
Water heating energy efficiency	Colder climate	%	—	—	79	79	—	—	79	79	—	—	79	79
	Warmer climate	%	—	—	88	88	—	—	88	88	—	—	88	88
Sound power level	Outdoor unit	dB	69	68	69	68	70	68	70	68	71	71	71	71

Specifications

Model	Hydraulic unit	WSYK160DG9	WGYK160DG9	WSYK160DG9	WGYK160DG9	WSYK160DG9	WGYK160DG9	
	Outdoor unit	WOYK112LCTA		WOYK140LCTA		WOYK160LCTA		
Type		Heating split type						
Power source		3N~ 400V 50Hz						
Max. current	A	8.5	8.5	9.5	9.5	10.5	10.5	
Max. pressure	MPa	4.15						
Refrigerant (R410A)	kg	2.50						
Dimension (H × W × D) & weight (NET)	Hydraulic unit	mm	800 × 450 × 457	1,840 × 648 × 698	800 × 450 × 457	1,840 × 648 × 698	800 × 450 × 457	1,840 × 648 × 698
		kg	42	152	42	152	42	152
	Outdoor unit	mm	1,290 × 900 × 330					
		kg	99					
Outdoor temperature range	Heating	°C	-25 to 35					
	Cooling	°C	8 to 43					

- Acoustic Noise Information:
The maximum sound pressure level is less than 70 dB (A) for both hydraulic unit and outdoor unit.
According to IEC 704-1 and ISO 3744.
- If the air to water heat pump is operated under higher temperature conditions than those listed, the built-in protection circuit may operate to prevent internal circuit damage. Also, during Cooling modes, if the unit is used under conditions of lower temperatures than those listed above, the heat-exchanger may freeze, leading to water leakage and other damage.
- Do not use this unit for any purposes other than the Heating and Cooling.



Product information according to Commission Delegated Regulation (EU) 813/2013

Product information is based on the average climate condition.

Model	Hydraulic unit	WSYK160DG9		WGYK160DG9		WSYK160DG9		WGYK160DG9		WSYK160DG9		WGYK160DG9				
	Outdoor unit	WOYK112LCTA				WOYK140LCTA				WOYK160LCTA						
Air-to-water heat pump		Yes														
Water-to-water heat pump		No														
Brine-to-water heat pump		No														
Low-temperature heat pump		No														
Equipped with a supplementary heater		Yes														
Heat pump combination heater		No***		Yes		No***		Yes		No***		Yes				
Temperature application		°C	55	35	55	35	55	35	55	35	55	35	55	35		
Rated heat output (*)		P _{rated}	kW	9	11	9	11	11	13	11	13	13	14	13	14	
Seasonal space heating energy efficiency		η _s	%	112	154	112	154	117	150	117	150	117	149	117	149	
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j																
T _j = -7°C		P _{dh}	kW	8.2	10.0	8.2	10.0	10.0	11.1	10.0	11.1	11.5	12.0	11.5	12.0	
T _j = +2°C		P _{dh}	kW	5.0	6.1	5.0	6.1	6.1	6.7	6.1	6.7	7.0	7.3	7.0	7.3	
T _j = +7°C		P _{dh}	kW	5.9	6.2	5.9	6.2	5.9	6.2	5.9	6.2	5.8	6.3	5.8	6.3	
T _j = +12°C		P _{dh}	kW	7.0	7.4	7.0	7.4	7.1	7.3	7.1	7.3	7.1	7.4	7.1	7.4	
T _j = bivalent temperature		P _{dh}	kW	8.2	10.0	8.2	10.0	10.0	11.1	10.0	11.1	11.5	12.0	11.5	12.0	
T _j = operation limit temperature		P _{dh}	kW	8.1	9.9	8.1	9.9	9.3	10.8	9.3	10.8	10.3	11.7	10.3	11.7	
T _j = -15°C (if TOL < -20°C)		P _{dh}	kW	—	—	—	—	—	—	—	—	—	—	—	—	
Bivalent temperature		T _{biv}	°C	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	
Cycling interval capacity for heating		P _{cyh}	kW	Not applicable												
Degradation co-efficient (**)		C _{dh}	—	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j																
T _j = -7°C		COP _d	—	1.91	2.65	1.91	2.65	1.95	2.53	1.95	2.53	1.82	2.41	1.82	2.41	
T _j = +2°C		COP _d	—	2.74	3.74	2.74	3.74	2.85	3.65	2.85	3.65	2.89	3.61	2.89	3.61	
T _j = +7°C		COP _d	—	3.94	5.47	3.94	5.47	4.07	5.37	4.07	5.37	4.12	5.50	4.12	5.50	
T _j = +12°C		COP _d	—	5.16	7.08	5.16	7.08	5.39	7.03	5.39	7.03	5.51	7.15	5.51	7.15	
T _j = bivalent temperature		COP _d	—	1.91	2.65	1.91	2.65	1.95	2.53	1.95	2.53	1.82	2.41	1.82	2.41	
T _j = operation limit temperature		COP _d	—	1.59	2.28	1.59	2.28	1.61	2.39	1.61	2.39	1.63	2.27	1.63	2.27	
T _j = -15°C (if TOL < -20°C)		COP _d	—	—	—	—	—	—	—	—	—	—	—	—	—	
Operation limit temperature		TOL	°C	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	
Cycling interval efficiency		COP _{cyh}	—	Not applicable												
Heating water operating limit temperature		WTOL	°C	60	60	60	60	60	60	60	60	60	60	60	60	
Power consumption in modes other than active mode																
Off mode		P _{OFF}	kW	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	
Thermostat-off mode		P _{TO}	kW	0.032	0.044	0.032	0.044	0.029	0.066	0.029	0.066	0.032	0.088	0.032	0.088	
Standby mode		P _{SB}	kW	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	
Crankcase heater mode		P _{CK}	kW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Supplementary heater																
Rated heat output (*)		P _{sup}	kW	1.2	1.4	1.2	1.4	2.0	1.7	2.0	1.7	2.7	2.0	2.7	2.0	
Type of energy input		Electric														
Other items																
Capacity control		Variable														
Sound power level	Hydraulic unit	L _{WA}	dB	46	46	46	46	46	46	46	46	46	46	46	46	
	Outdoor unit	L _{WA}	dB	69	68	69	68	70	68	70	68	71	71	71	71	
Annual energy consumption		Q _{HE}	kWh	6669	5930	6669	5930	7803	6738	7803	6738	9062	7408	9062	7408	
Emissions of nitrogen oxides		NO _x	mg/kWh	Not applicable												
Rated air flow rate		Outdoor unit	—	m ³ /h	6200	6200	6200	6200	6200	6200	6200	6200	6200	6900	6200	6900
Declared load profile		— — L L — — L L — — L L														
Daily electricity consumption		Q _{elec}	kWh	—	—	5.300	5.300	—	—	5.300	5.300	—	—	5.300	5.300	
Annual electricity consumption		AEC	kWh	—	—	1166	1166	—	—	1166	1166	—	—	1166	1166	
Water heating energy efficiency		η _{wh}	%	—	—	88	88	—	—	88	88	—	—	88	88	
Daily fuel consumption		Q _{fuel}	kWh	Not applicable												
Contact details				FUJITSU GENERAL (EURO) GmbH Fritz-Vomfelde-Straße 26-32, 40547 Düsseldorf, Germany												

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating P_{designh}, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating sup (T_j).

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is C_{dh} = 0.9.

(***) Possible with using an optional component.

FUJITSU GENERAL LIMITED

3-3-17, Suenaga, Takatsu-ku, Kawasaki 213-8502, Japan