

Product Ecodesign Information

Model No.: WH-ADC0916H9E8AN / WH-UQ12HE8

Air-to-water heat pump [YES/NO]:	YES	Low-temperature heat pump [YES/NO]:	NO
Water-to-water heat pump [YES/NO]:	NO	Brine-to-water heat pump [YES/NO]:	NO
Equipped with a supplementary heater [YES/NO]:	YES		
Heat pump combination heater [YES/NO]:	YES		

Parameters shall be declared for medium-temperature application.

Parameters shall be declared for AVERAGE climate conditions:-

Item	Symb.	Value	Unit	Item	Symb.	Value	Unit
Rated heat output (*)	P_{rated}	12	kW	Seasonal space heating energy efficiency	η_s	130	%
Bivalent temperature	T_{biv}	-10	°C	Operation limit temperature	TOL	-10	°C
Degradation coefficient (**)	C_{dh}	0,9	—	Heating water operating limit temperature	$WTOL$	55	°C

Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = -7$ °C	P_{dh}	10,8	kW	$T_j = -7$ °C	COP_d	2,03	—
$T_j = +2$ °C	P_{dh}	6,1	kW	$T_j = +2$ °C	COP_d	3,19	—
$T_j = +7$ °C	P_{dh}	4,7	kW	$T_j = +7$ °C	COP_d	4,38	—
$T_j = +12$ °C	P_{dh}	5,7	kW	$T_j = +12$ °C	COP_d	5,89	—
$T_j = T_{biv}$	P_{dh}	11,7	kW	$T_j = T_{biv}$	COP_d	1,95	—
$T_j = TOL$	P_{dh}	11,7	kW	$T_j = TOL$	COP_d	1,95	—
$T_j = -15$ °C (if $TOL < -20$ °C)	P_{dh}	—	kW	$T_j = -15$ °C (if $TOL < -20$ °C)	COP_d	—	—
Cycling interval capacity for heating	P_{cyc}	—	kW	Cycling interval efficiency	COP_{cyc}	—	—

Power consumption in modes other than active mode:				Other items: (◇) (□)			
Off mode	P_{OFF}	0,003	kW	Capacity control	Variable		
Thermostat-off mode	P_{TO}	0,012	kW	Sound power level, indoor (◇)	L_{WA}	46	dB
Standby mode	P_{SB}	0,012	kW	Sound power level, outdoor (◇)	L_{WA}	58	dB
Crankcase heater mode	P_{CK}	0,033	kW	Sound power level, indoor (□)	L_{WA}	46	dB
Supplementary heater	P_{sup}	9,0	kW	Sound power level, outdoor (□)	L_{WA}	62	dB
Rated heat output (*)	ELECTRICAL HEATER			Annual energy consumption	Q_{HE}	7466	kWh
Type of energy input				Rated air flow rate, outdoor	—	4800	m ³ /h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	—	—	m ³ /h	Emissions of nitrogen oxides	NO_x	—	mg/kWh

For heat pump combination heater:

Declared load profile	L			Water heating energy efficiency	η_{wh}	95	%
Daily electricity consumption	Q_{elec}	4,937	kWh	Daily fuel consumption	Q_{fuel}	—	kWh

Contact details for obtaining more information: (Name and address of the manufacturer or of its authorized representative.)
Panasonic Testing Centre, Panasonic Marketing Europe GmbH
Winsbergring 15, 22525 Hamburg, Germany

REMARK:

- You can find information and precautions relevant for installation and maintenance in the Operation Instructions.
 - You can find information relevant for recycling and/or disposal at end-of-life in the Operation Instructions.
- (*) 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 $C_{dh} = 0,9$.
- (◇) Nominal A-Weighted Sound Power Level (L_{WA}), according to regulation 811/2013, 813/2013 and standard EN14825 at A7(6), in dB (A).
- (□) Maximum A-Weighted Sound Power Level (L_{WA}), according to EN12102-1 at A7(6) W55(47), in dB (A).

ACXF70-59831



Product Information Sheet



Panasonic			WARMER					AVERAGE											COLDER						
Indoor Unit	Outdoor Unit	Load Profile	P _{rated}	η _s	Q _{HE}	η _{wh}	AEC	η _s (A+++ ~ D)	η _{wh} (A+ ~ F)	P _{rated}	η _s	Q _{HE}					η _{wh}	AEC	Off Peak	P _{sup}	P _{rated}	η _s	Q _{HE}	η _{wh}	AEC
			kW (55°C)	% (55°C)	kWh (55°C)	%	kWh (55°C)			kW (55°C)	%	kWh (55°C)	dB (A) (55°C) *2	dB (A) (55°C) *2	dB (A) *3	dB (A) *3	%	kWh (55°C)	Yes/No	kW	kW (55°C)	% (55°C)	kWh (55°C)	%	kWh (55°C)
*1 WH-ADC0309H3E5AN	WH-UD03HE5-1	L	3	163%	965	147%	659	A++	A+	3	130%	1865	41	64	41	55	120%	796	No	3	2	103%	1862	94%	1002
	WH-UD05HE5-1	L	4	163%	1285	147%	659	A++	A+	4	130%	2483	41	65	41	55	120%	796	No	3	2	103%	1862	94%	1002
	WH-UD07HE5-1	L	6	160%	1971	132%	736	A++	A	7	130%	4354	41	68	41	59	113%	848	No	3	6	115%	5022	86%	1102
	WH-UD09HE5-1	L	6	160%	1971	132%	736	A++	A	7	130%	4354	41	69	41	59	113%	848	No	3	6	115%	5022	86%	1102
*1 WH-ADC0916H9E8AN	WH-UD09HE8	L	9	159%	2967	110%	803	A++	A	8	133%	4844	46	68	46	65	95%	984	No	9	8	121%	6368	75%	1177
	WH-UD12HE8	L	9	159%	2970	110%	803	A++	A	8	134%	4840	46	69	46	65	95%	984	No	9	9	121%	7147	75%	1177
	WH-UD16HE8	L	10	169%	3104	107%	877	A++	A	13	130%	8076	46	72	46	65	91%	1056	No	9	10	121%	7955	72%	1266
	WH-UX09HE8	L	9	158%	2991	110%	803	A++	A	9	130%	5596	46	68	46	65	95%	984	No	9	11	125%	8468	75%	1177
	WH-UX12HE8	L	12	158%	3990	110%	803	A++	A	12	130%	7466	46	69	46	65	95%	984	No	9	13	125%	10012	75%	1177
	WH-UX16HE8	L	16	159%	5280	107%	877	A++	A	16	125%	10330	46	72	46	67	91%	1056	No	9	18	125%	13870	72%	1266
	WH-UQ09HE8	L	9	158%	2991	110%	803	A++	A	9	130%	5596	46	61	46	58	95%	984	No	9	11	125%	8468	75%	1177
	WH-UQ12HE8	L	12	158%	3990	110%	803	A++	A	12	130%	7466	46	62	46	58	95%	984	No	9	13	125%	10012	75%	1177
	WH-UQ16HE8	L	16	159%	5280	107%	877	A++	A	16	125%	10330	46	65	46	62	91%	1056	No	9	18	125%	13870	72%	1266

2019

811/2013

*1

R410A (GWP=2088)

Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 2088. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 2088 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

*2

Maximum A-Weighted Sound Power Level (L_{WA}), according to EN12102-1 at A7(6) W55(47), in dB (A).

*3

Nominal A-Weighted Sound Power Level (L_{WA}), according to regulation 811/2013, 813/2013 and standard EN14825 at A7(6), in dB (A).

Energy consumption "XYZ" kWh per year, based on standard test results.

Actual energy consumption will depend on how the appliance is used and where it is located.

- You can find information and precautions relevant for installation and maintenance in the Operation Instructions.
- You can find information relevant for recycling and/or disposal at end-of-life in the Operation Instructions.

ACXF70-59691