

Product Ecodesign Information

Model No.: WH-MDC09J3E5

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

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}	8	kW	Seasonal space heating energy efficiency	η_s	130	%
Bivalent temperature	T_{biv}	-7	°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}	7,0	kW	$T_j = -7$ °C	COP_d	2,02	—
$T_j = +2$ °C	P_{dh}	4,3	kW	$T_j = +2$ °C	COP_d	3,24	—
$T_j = +7$ °C	P_{dh}	2,7	kW	$T_j = +7$ °C	COP_d	4,30	—
$T_j = +12$ °C	P_{dh}	3,3	kW	$T_j = +12$ °C	COP_d	6,79	—
$T_j = T_{biv}$	P_{dh}	7,1	kW	$T_j = T_{biv}$	COP_d	2,02	—
$T_j = TOL$	P_{dh}	7,1	kW	$T_j = TOL$	COP_d	1,94	—
$T_j = -15$ °C (if $TOL < -20$ °C)	P_{dh}	—	kW	$T_j = -15$ °C (if $TOL < -20$ °C)	COP_d	—	—
Cycling interval capacity for heating	P_{cych}	—	kW	Cycling interval efficiency	COP_{cyc}	—	—

Power consumption in modes other than active mode:

Other items: (◇) (□)

Off mode	P_{OFF}	0,002	kW	Capacity control	<i>Variable</i>		
Thermostat-off mode	P_{TO}	0,044	kW	Sound power level, indoor (◇)	L_{WA}	-	dB
Standby mode	P_{SB}	0,010	kW	Sound power level, outdoor (◇)	L_{WA}	59	dB
Crankcase heater mode	P_{CK}	0,010	kW	Sound power level, indoor (□)	L_{WA}	-	dB
Supplementary heater	P_{sup}	3,0	kW	Sound power level, outdoor (□)	L_{WA}	69	dB
Rated heat output (*)	ELECTRICAL HEATER			Annual energy consumption	Q_{HE}	4971	kWh
Type of energy input				Rated air flow rate, outdoor	—	3193	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	—			Water heating energy efficiency	η_{wh}	—	%
Daily electricity consumption	Q_{elec}	—	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).