

# Product Ecodesign Information

Model No.: WH-MDC05J3E5

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 (*)	$P_{rated}$	5	kW	Seasonal space heating energy efficiency	$\eta_s$	142	%
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  $T_j$

$T_j = -7\text{ °C}$	$P_{dh}$	4,5	kW	$T_j = -7\text{ °C}$	$COP_d$	2,30	—
$T_j = +2\text{ °C}$	$P_{dh}$	2,7	kW	$T_j = +2\text{ °C}$	$COP_d$	3,58	—
$T_j = +7\text{ °C}$	$P_{dh}$	2,8	kW	$T_j = +7\text{ °C}$	$COP_d$	4,89	—
$T_j = +12\text{ °C}$	$P_{dh}$	3,4	kW	$T_j = +12\text{ °C}$	$COP_d$	6,92	—
$T_j = T_{biv}$	$P_{dh}$	5,0	kW	$T_j = T_{biv}$	$COP_d$	1,98	—
$T_j = TOL$	$P_{dh}$	5,0	kW	$T_j = TOL$	$COP_d$	1,98	—
$T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$ )	$P_{dh}$	—	kW	$T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$ )	$COP_d$	—	—
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 (□)	$L_{WA}$	64	dB
Rated heat output (*)	ELECTRICAL HEATER			Annual energy consumption	$Q_{HE}$	2849	kWh
Type of energy input				Rated air flow rate, outdoor	—	2387	m <sup>3</sup> /h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	—	—	m <sup>3</sup> /h	Emissions of nitrogen oxides	$NO_x$	—	mg/kWh

For heat pump combination heater:

<b>Declared load profile</b>	—			<b>Water heating energy efficiency</b>	$\eta_{wh}$	—	%
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).