

ECODESIGN & ENERGY LABELLING INFORMATION

6 KW SPLIT TANK COMBI

HITACHI
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INTRODUCTION

Welcome to the Eco design and Energy labelling data for the Hitachi YUTAKI Split Tank Combi air to water heat pump – by Pipelife Ireland LTD.

This document is to fulfil the requirements of the directive Eu No. 813/2013. The directive ensures the correct product information is available to BER assessors, Engineers and specifiers alike.

The information within this guide is fully compliant with the directive and provides everything needed to fulfil the SEAI requirements for DEAP methodology.

DECLARATION OF CONFORMITY

Product details

Product: HTIACHI YUTAKI S COMBI
Model(s): RAS-2.5WHVRP / RWD-2.5NRWE-200S



Declaration & Applicable Standards

The product above is in compliance with the following directives.
Of the European Parliament and of the Council of the European Union:

2014/35/EU (2006/95/EC)
2014/30/EU (2004/108/EC)
2011/65/EU
813/2013 2009/125/EC

EN60335-1	EN60335-2-40
EN55014-1	EN55014-2
EN61000-3-3	EN61000-3-2
EN6100-3-11	EN61000-3-12
EN62233	EN14825
EN16147	EN12102

TECHNICAL PARAMETERS – LOW TEMPERATURE APPLICATION

Information requirements for heat pump space heaters and heat pump combination heaters - 813/2013

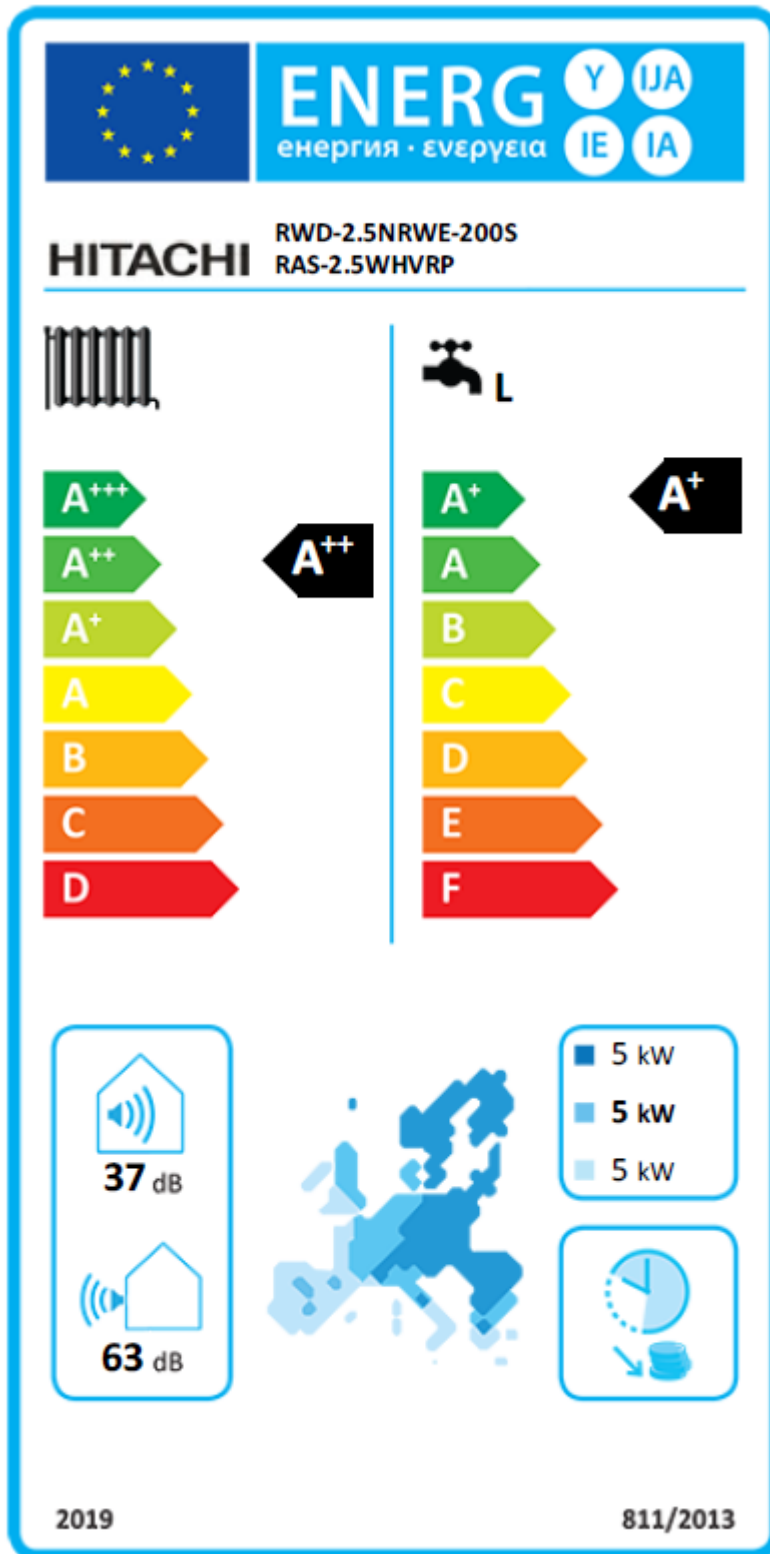
model				RAS-2.5WHVRP / RWD-2.5NRWE-200S			
Air-to-water heat pump				Yes			
Water-to-water heat pump				No			
Brine-to-water heat pump				No			
Low-temperature heat pump				Yes			
Equipped with supplementary heater				Yes			
heat pump combination heater				Yes			
Parameters are declared for				Low-temperature application			
Parameters are declared for				Average climate conditions			
Item	Symbol	Value	unit	Item	Symbol	Value	unit
Rated heat output	Prated	6	KW	Seasonal Space Heating Energy Efficiency	N ^s	177	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	5.10	KW	Tj = -7 °C	COPd	2.70	-
Tj = +2 °C	Pdh	3.10	KW	Tj = +2 °C	COPd	4.60	-
Tj = +7 °C	Pdh	3.00	KW	Tj = +7 °C	COPd	6.20	-
Tj = +12 °C	Pdh	3.05	KW	Tj = +12 °C	COPd	8.35	-
Tj = operation limit temperature	Pdh	5.30	KW	Tj = operation limit temperature	COPd	2.50	-
Bivalent Temperature	Tbiv	-7	°C	operation limit temperature	TOL	-10	°C
Degradation co-efficient	Cdh	0.90	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P off	0.012	KW	Rated heat output	Psup	0.25	KW
Thermostat-off mode	P to	0	KW	Type of energy input Electricity			
Standby Mode	P sb	0.012	KW				
Crankcase heater mode	P ck	0	KW				
Other modes							
Capacity control	Variable			Outdoor sound level	Lwa	63	dB
For heat pump combination heater							
Declared load profile	L			Water heating energy Efficiency	Nwh	132	%
Primary standby heat loss	1.75	KWh/day		Reference hot water temperature		54	°C
						DHW volume accounted for in test	263 L

TECHNICAL PARAMETERS – MEDIUM TEMPERATURE APPLICATION

Information requirements for heat pump space heaters and heat pump combination heaters - 813/2013

model				RAS-2.5WHVRP / RWD-2.5NRWE-200S			
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 supplementary heater				Yes			
heat pump combination heater				Yes			
Parameters are declared for				Medium-temperature application			
Parameters are declared for				Average climate conditions			
Item	Symbol	Value	unit	Item	Symbol	Value	unit
Rated heat output	Prated	5.00	KW	Seasonal Space Heating Energy Efficiency	N ^s	127	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	4.42	KW	Tj = -7 °C	COPd	1.85	-
Tj = +2 °C	Pdh	2.69	KW	Tj = +2 °C	COPd	3.30	-
Tj = +7 °C	Pdh	2.43	KW	Tj = +7 °C	COPd	4.60	-
Tj = +12 °C	Pdh	2.80	KW	Tj = +12 °C	COPd	6.35	-
Tj = operation limit temperature	Pdh	3.90	KW	Tj = operation limit temperature	COPd	1.70	-
Bivalent Temperature	Tbiv	-7	°C	operation limit temperature	TOL	-10	°C
Degradation co-efficient	Cdh	00.90	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P off	0.012	KW	Rated heat output	Psup	1.10	KW
Thermostat-off mode	P to	0	KW	Type of energy input Electricity			
Standby Mode	P sb	0.012	KW				
Crankcase heater mode	P ck	0	KW				
Other modes							
Capacity control	Variable			Outdoor sound level	Lwa	63	dB
For heat pump combination heater							
Declared load profile		L		Water heating energy Efficiency	Nwh	132	%
Primary standby heat loss		1.75	KWh/day	Reference hot water temperature		54	°C
				DHW volume accounted for in test		263	L

PRODUCT LABELS – HEAT PUMP COMBINATION HEATER





**For any queries on any information in this guide
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