

Product Fiche & ErP Data



Designation : **Product FICHE & ErP Data Viwa 50 & 65**

Object Product Fiche & ErP Data	Manufacturer Warmhaus	Type-model / Technical data Viwa 50 & 65 boilers	Mark (s) of conformity granted
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ErP & Product Fiche for Warmhaus boilers has been tested and reported on SZU Test / BRNO given below;

PRODUCT FICHE (according to EU regulation No 811/2013 and 814/2013)							
		Viwa 50	Viwa 65	Viwa 90	Viwa 115	Viwa 125	Viwa 150
Space heating - Temperature application		High / Medium / Low	High / Medium / Low	High / Medium / Low	High / Medium / Low	High / Medium / Low	High / Medium / Low
Water heating - Declared load profile		-	-	-	-	-	-
Seasonal space heating energy efficiency class		A	A	-	-	-	-
Water heating energy efficiency class		-	-	-	-	-	-
Rated heat output (Prated or Psup)		kW 48,7	63,2	87,9	112	122,2	146,3
Space heating - annual energy consumption	Q_{HE}	GJ -	-	-	-	-	-
Water heating - Annual energy consumption	kWh (*)	-	-	-	-	-	-
	GJ (**)	-	-	-	-	-	-
Seasonal space heating energy efficiency		% 92	93	-	-	-	-
Water heating energy efficiency		% -	-	-	-	-	-
Sound power level L_{WA} indoors		dB 61	58	62,1	62,1	63,4	63,4
Option to only operate during low demand periods		-	-	-	-	-	-
Specific precautions for assembly, installation and maintenance		Before any assembly, installation or maintenance the user and installation manual has to be read attentively and to be followed					
All the data that is included in the product information was determined by applying the specifications of the relevant European directives. Differences to product information listed elsewhere may result in different test conditions. Only the data that is contained in this product information is applicable and valid.							
(*) Electricity							
(**) Fuel							

ErP DATA (according to EU regulation No 813/2013 and 814/2013)							
		Viwa 50	Viwa 65	Viwa 90	Viwa 115	Viwa 125	Viwa 150
Water heating - Declared load profile		-	-	-	-	-	-
Rated Heat Output	P_{rated}	kW 48,7	63,2	87,9	112	122,2	146,3
Useful heat output at rated heat output and high temperature regime (2)	P_4	kW 45,73	57,78	80,93	101,32	113,32	136,01
Useful heat output at 30% of rated heat output and low temperature regime (1)	P_1	kW 8,12	11,54	15,26	20,17	22,75	25,63
Seasonal Space Heating Energy Efficiency	η_s	% 92	93	-	-	-	-
Useful efficiency at rated heat output and high temperature regime(2)	η_4	% 88	87,8	88,07	87,83	88,15	87,98
Useful efficiency at 30% of rated heat output and low temperature regime(1)	η_1	% 97,11	97,39	96,87	96,58	97,38	96,91
Auxiliary Electricity Consumption							
Full load	el_{max}	kW 0,090	0,100	0,120	0,128	0,169	0,265
Part load	el_{min}	kW 0,010	0,030	0,029	0,030	0,029	0,030
Standby mode	P_{SB}	kW 0,004	0,004	0,004	0,004	0,004	0,004
Other Items							
Standby heat loss	P_{Sby}	kW 0,073	0,073	0,121	0,121	0,127	0,127
Ignition burner power consumption	P_{ign}	kW 0,000	0,000	0,000	0,000	0,000	0,000
Space heating - annual energy consumption	Q_{HE}	GJ -	-	-	-	-	-
Sound power level, indoors	L_{WA}	dB 61	58	62,1	62,1	63,4	63,4
Emissions of nitrogen oxides	NO_x	mg/kWh 40	40	18	28	25	29
Domestic Hot Water Parameters							
Declared Load Profile							
Daily electricity consumption	Q_{elec}	kWh -	-	-	-	-	-
Annual electricity consumption *	AEC	kWh -	-	-	-	-	-
Water Heating Energy Efficiency	h_{wh}	% -	-	-	-	-	-
Daily fuel consumption	Q_{fuel}	kWh -	-	-	-	-	-
Annual fuel consumption	AFC	GJ -	-	-	-	-	-
Condensing boiler	-	Yes	Yes	Yes	Yes	Yes	Yes
Low temperature boiler	-	Yes	Yes	Yes	Yes	Yes	Yes
Combination boiler	-	No	No	No	No	No	No
B1 Boiler	-	No	No	No	No	No	No
Room boiler with combined heat and power	-	No	No	No	No	No	No
Auxiliary boiler	-	No	No	No	No	No	No
Brand Name	Warmhaus						
Manufacturer adress	Warmhaus Isıtma ve Sogutma Sistemleri San. Tic. A.Ş. Nilufer Organize Sanayi Bolgesi Selvi Cad. No:3 Nilufer/Bursa/Turkey						
Warnings	All spesific precautions for assembly, installation and maintenance are described in the operating and installation manual. Read and follow the operating and installation manual. Read and follow the operating and installation manual regarding assembly, installation, maintenance, removal, recycling and/or disposal.						
* for average climatic conditions							
(1) Low temperature means for condensing boilers 30 °C, for low temperature boilers 37 °C and for other heaters 50 °C return temperature (at heater inlet).							
(2) High temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature heater outlet.							

Author Release date Rev. No. Drw. No.	Ismail B. Tasdemir / R&D Mng. 14.8.2018 2 WH.17.747	Aprr.:	As this is the property of Warmhaus Isıtma ve Sogutma Sistemleri San. Tic. A.Ş. It must not be passed on to any person not authorized by Warmhaus Isıtma ve Sogutma Sistemleri San. Tic. A.Ş or be copied or otherwise utilized by anybody without expressed written permission.
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