

PRODUCT INFORMATION SHEET

The product data presented below complies with the requirements of EU regulations 811/2013 and 813/2013 to comply with directives 92/42/EU and 92/42/EEC.

CE PIN Number: 0085CS0133

Product Data	Symbol	Unit	PROTEUS PREMIX 14 HM-HCH-HST	PROTEUS PREMIX 20 HM-HCH-HST	PROTEUS PREMIX 24 HM-HCH-HST	PROTEUS PREMIX 28 HM-HCH-HST	PROTEUS PREMIX 30 HM-HCH-HST	PROTEUS PREMIX 35 HM-HCH-HST	PROTEUS PREMIX 42 HM-HCH-HST	PROTEUS PREMIX 45 HM-HCH-HST	
Condensing boiler			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Low-temperature boiler(*b)			No	No	No	No	No	No	No	No	
B1 boiler			No	No	No	No	No	No	No	No	
Cogeneration Space Heater			No	No	No	No	No	No	No	No	
Combination Heater			Yes (for HM Models) / No (for HCH ve HST Models)								
Usable Heating Capacity											
Rated heat output (*e)	Prated	kW	14	20	24	28	30	35	42	45	
At rated heat output and high temperature regime (*a)	P4	kW	14,1	20,2	24,5	28	30	35	39	42,8	
At 30% of rated heat output and low temperature regime	P1	kW	6,7	6,7	8,1	9,2	9,9	11,5	12,8	14	
Auxiliary electricity consumption											
At full load	elmax	kW	0,028	0,035	0,04	0,051	0,056	0,066	0,05	0,08	
At part load	elmin	kW	0,012	0,012	0,012	0,012	0,013	0,013	0,013	0,013	
In Standby mode	PSB	kW	0,004	0,004	0,004	0,004	0,004	0,004	0,0021	0,0021	
Space Heating Efficiency											
Seasonal space heating energy efficiency class			A	A	A	A	A	A	A	A	
Seasonal space heating energy efficiency	η_s	%	91,11	91,4	92,2	92,4	92	92,9	92,21	92,18	
At rated heat output and high temperature regime (*c)	η_4	%	87,9	87,9	87,9	87,9	87,9	87,9	87,9	87,9	
At 30% of rated heat output and low temperature regime (*d)	η_1	%	97	97	97,2	97,4	97	97,9	97	97	
For Combination Heaters (*f)											
Temperature application (*f)			Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	
Declared load profile (*f)			XL	XL	XL	XL	XL	XL	XL	XL	
Water heating energy efficiency class (*f)			A	A	A	A	A	A	A	A	
Water heating energy efficiency (*f)	η_{wh}	%	83,6	83,6	83,6	83,9	82,8	82,8	84	87,8	
Daily fuel consumption (*f)	Qfuel	kWh	22,88	22,88	22,8	22,8	23,021	23,021	23,27	23,96	
Annual fuel consumption (*f)	AFC	Gj	18	18	18	18	18	18	17	18	
Other Information											
Standby Heat Loss	Pstby	kW	0,065	0,065	0,065	0,065	0,065	0,065	0,07	0,07	
Ignition Burner Power Consumption	Pign	kW	0	0	0	0	0	0	0	0	
Annual Energy Consumption	QHE	kWh	12267	17574	21315	24360	26100	30450	33930	37236	
Daily Electricity Consumption	Qelec	kWh	0,423	0,423	0,195	0,22	0,24	0,24	0,15	0,15	
Annual Electricity Consumption	AEC average	kWh	44	44	44	44	44	44	40	40	
Sound Power Level	L_{WA}	db(A)	49	49	49	49	49	49	53	53	
Emission of Nitrogen Oxide	NOx	mg/kWh	25,91	27,2	25,91	21,29	25,91	25,91	33	34	
Indication about ability working only during off-peak hours			No	No	No	No	No	No	No	No	
Manufacturer	Emas Makina Sanayi A.Ş.										
Address of the Manufacturer	Mustafa Kemal Boulevard Organized Industrial Zone 3rd Section No: 13 45030 MANİSA										

(*a) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(*b) 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).

(*c) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(*d) 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).

(*e) For heat pump heaters and combined heaters, the rated heat output Prated is the same as the standard load in heating mode Pdesignh. The rated heat output of a Psup auxiliary heating device is the same as the auxiliary heating power sup(Tj).

(*f) valid for HM models.



Warning: Special precautions are stated in the user and installation manuals for assembly, installation and maintenance. Read and follow the user and installation manuals.



Warning: This natural draft boiler can only be connected to a flue gas system which more than one flat is connected in existing buildings, which directs the combustion gases in the installation room to the open air. It has a differential pressure switch and takes combustion air directly from the installation room. Any other use of this boiler should be avoided due to its low efficiency. It may result in higher energy consumption and higher operating costs.



Warning: Read and follow the user and assembly manuals for assembly, installation, maintenance, disassembly, recycling and/or waste disposal.



Warning: All data contained in the product information has been determined within the framework of the requirements of European directives. Differences from product information stated elsewhere may be due to different testing conditions. Only the data contained in this product information is binding and valid.

