

Product Fiche (according to EU regulation No 811/2013)

(a) Supplier's name or trademark	E.C.A.			
(b) Supplier's model identifier	PROTEUS PREMIX PPR 14 HM			
(c) Space heating: medium temperature application	YES	Water heating: declared load profile	XL	
(d) Seasonal space heating energy efficiency class	A	Water heating energy efficiency class	A	
(e) Rated heat output, including the rated heat output of any supplementary heater	14,1	kW		
(f) Space heating: annual energy consumption		kWh	and/ or	44
				GJ
Water heating: annual electricity and/ or fuel consumption		kWh	and/ or	18
				GJ
(g) Seasonal space heating energy efficiency	91,1	%	Water heating energy efficiency	90,7
				%
(h) Sound power level, indoors	49	dB(A)		
(i) Combination heater is able to work only during off-peak hours	NO			
(j) Specific precautions for assembly, installation and maintenance	All specific precautions for installation, assembly and maintenance are described in the installation and service manual.			

Product Information Requirements (according to EU regulation No 813/2013)

Model	CALORA PREMIX 14 HM		
condensing boiler	YES		
low temperature boiler**	YES		
B1 boiler	NO		
Cogeneration space heater	NO	If yes, equipped with a supplementary heater [Yes/No]	
Combination heater	YES		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	P_{rated}	14,1	kW	Seasonal space heating energy efficiency	η_s	91,1	%
For boiler space heaters and boiler combination heaters: Useful heat output				For boiler space heaters and boiler combination heaters: Useful efficiency			
At rated heat output and high-temperature regime (**)	P_4	14,1	kW	At rated heat output and high-temperature regime (**)	η_4	87,9	%
At 30 % of rated heat output and low-temperature regime (**)	P_1	4,7	kW	At 30 % of rated heat output and low-temperature regime (**)	η_1	96,4	%
Supplementary heater							
Rated heat output				P_{sup}	0	kW	
Type of energy input							

Auxiliary electricity consumption			
At full load e_{lmax}		0,028	kW
At part load e_{lmin}		0,012	kW
In standby mode	P_{SB}	0,005	kW

Other items			
Standby heat loss	P_{stby}	0,065	kW
Ignition burner power consumption	P_{ign}	0	kW
Emission of Nitrogen Oxides	NO_x	25,91	mg/kWh

For combination heaters:			
Declared load profile	XL		
Daily electricity consumption	Q_{elec}	0,190	kWh

Water heating energy efficiency	η_{wh}	90,7	%
Daily fuel consumption	Q_{fuel}	22,8	kWh

Contact details	Emas Makina Sanayi A.Ş. - Organize Sanayi Bölgesi III. Kısım Mustafa Kemal Bulvarı No:13 MANİSA 45030
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(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(**) 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).

Specific precautions that shall be taken when the space heater is assembled, installed or maintained/ information relevant for disassembly, recycling and/or disposal at end-of-life

All specific precautions for assembly, installation and maintenance and information relevant for disassembly, recycling and/or disposal at end-of-life are described in the operating and installation instructions. Read and follow the operating and installation instructions.

For type B1 boiler and type B1 combination boiler:

This natural draught boiler is intended to be connected only to a flue shared between multiple dwellings in existing buildings that evacuates the residues of combustion to the outside of the room containing the boiler. It draws the combustion air directly from the room and incorporates a draught diverter. Due to lower efficiency, any other use of this boiler shall be avoided and would result in higher energy consumption and higher operating costs.

Product Fiche (according to EU regulation No 811/2013)

(a) Supplier's name or trademark	E.C.A.			
(b) Supplier's model identifier	PROTEUS PREMIX PPR 14 HCH / PROTEUS PREMIX PPR 14 HST			
(c) Space heating: medium temperature application	YES			
(d) Seasonal space heating energy efficiency class	A			
(e) Rated heat output, including the rated heat output of any supplementary heater	14,1	kW		
(f) Space heating: annual energy consumption		kWh	and/ or	44 GJ
(g) Seasonal space heating energy efficiency	91,1	%		
(h) Sound power level, indoors	49	dB(A)		
(i) Combination heater is able to work only during off-peak hours	NO			
(j) Specific precautions for assembly, installation and maintenance	All specific precautions for installation, assembly and maintenance are described in the installation and service manual.			

Product Information Requirements (according to EU regulation No 813/2013)

Model	PROTEUS PREMIX PPR 14 HCH / PROTEUS PREMIX PPR 14 HST		
condensing boiler	YES		
low temperature boiler**	YES		
B1 boiler	NO		
Cogeneration space heater	NO	If yes, equipped with a supplementary heater [Yes/No]	
Combination heater	NO		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	P_{rated}	14,1	kW	Seasonal space heating energy efficiency	η_s	91,1	%
For boiler space heaters and boiler combination heaters: Useful heat output				For boiler space heaters and boiler combination heaters: Useful efficiency			
At rated heat output and high-temperature regime (*)	P_4	14,1	kW	At rated heat output and high-temperature regime (*)	η_4	87,9	%
At 30 % of rated heat output and low-temperature regime (**)	P_1	4,7	kW	At 30 % of rated heat output and low-temperature regime (**)	η_1	96,4	%
Supplementary heater							
Rated heat output				P_{sup}	0	kW	
Type of energy input							

Auxiliary electricity consumption				Other items			
At full load e_{lmax}		0,028	kW	Standby heat loss	P_{stby}	0,065	kW
At part load e_{lmin}		0,012	kW	Ignition burner power consumption	P_{ign}	0	kW
In standby mode	P_{SB}	0,005	kW	Emission of Nitrogen Oxides	No_x	25,91	mg/kWh

Contact details	Emas Makina Sanayi A.Ş. - Organize Sanayi Bölgesi III. Kısım Mustafa Kemal Bulvarı No:13 MANİSA 45030
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(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(**) 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).

Specific precautions that shall be taken when the space heater is assembled, installed or maintained/ information relevant for disassembly, recycling and/or disposal at end-of-life

All specific precautions for assembly, installation and maintenance and information relevant for disassembly, recycling and/or disposal at end-of-life are described in the operating and installation instructions. Read and follow the operating and installation instructions.

Product Fiche (according to EU regulation No 811/2013)

(a) Supplier's name or trademark	E.C.A.			
(b) Supplier's model identifier	PROTEUS PREMIX PPR 20 HM			
(c) Space heating: medium temperature application	YES	Water heating: declared load profile	XL	
(d) Seasonal space heating energy efficiency class	A	Water heating energy efficiency class	A	
(e) Rated heat output, including the rated heat output of any supplementary heater	20,2	kW		
(f) Space heating: annual energy consumption		kWh	and/ or	63
				GJ
Water heating: annual electricity and/ or fuel consumption		kWh	and/ or	18
				GJ
(g) Seasonal space heating energy efficiency	91,4	%	Water heating energy efficiency	90,7
				%
(h) Sound power level, indoors	49	dB(A)		
(i) Combination heater is able to work only during off-peak hours	NO			
(j) Specific precautions for assembly, installation and maintenance	All specific precautions for installation, assembly and maintenance are described in the installation and service manual.			

Product Information Requirements (according to EU regulation No 813/2013)

Model	PROTEUS PREMIX PPR 20 HM		
condensing boiler	YES		
low temperature boiler**	YES		
B1 boiler	NO		
Cogeneration space heater	NO	If yes, equipped with a supplementary heater [Yes/No]	
Combination heater	YES		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	P_{rated}	20,2	kW	Seasonal space heating energy efficiency	η_s	91,4	%
For boiler space heaters and boiler combination heaters: Useful heat output				For boiler space heaters and boiler combination heaters: Useful efficiency			
At rated heat output and high-temperature regime (*)	P_4	20,2	kW	At rated heat output and high-temperature regime (*)	η_4	87,9	%
At 30 % of rated heat output and low-temperature regime (**)	P_1	6,6	kW	At 30 % of rated heat output and low-temperature regime (**)	η_1	96,4	%
Supplementary heater							
Rated heat output				P_{sup}	0	kW	
Type of energy input							

Auxiliary electricity consumption			
At full load e_{lmax}		0,035	kW
At part load e_{lmin}		0,012	kW
In standby mode	P_{SB}	0,005	kW

Other items			
Standby heat loss	P_{stby}	0,065	kW
Ignition burner power consumption	P_{ign}	0	kW
Emission of Nitrogen Oxides	NO_x	27,20	mg/kWh

For combination heaters:			
Declared load profile	XL		
Daily electricity consumption	Q_{elec}	0,198	kWh

Water heating energy efficiency	η_{wh}	90,7	%
Daily fuel consumption	Q_{fuel}	22,8	kWh

Contact details	Emas Makina Sanayi A.Ş. - Organize Sanayi Bölgesi III. Kısım Mustafa Kemal Bulvarı No:13 MANİSA 45030
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(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(**) 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).

Specific precautions that shall be taken when the space heater is assembled, installed or maintained/ information relevant for disassembly, recycling and/or disposal at end-of-life

All specific precautions for assembly, installation and maintenance and information relevant for disassembly, recycling and/or disposal at end-of-life are described in the operating and installation instructions. Read and follow the operating and installation instructions.

For type B1 boiler and type B1 combination boiler:

This natural draught boiler is intended to be connected only to a flue shared between multiple dwellings in existing buildings that evacuates the residues of combustion to the outside of the room containing the boiler. It draws the combustion air directly from the room and incorporates a draught diverter. Due to lower efficiency, any other use of this boiler shall be avoided and would result in higher energy consumption and higher operating costs.

Product Fiche (according to EU regulation No 811/2013)

(a) Supplier's name or trademark	E.C.A.			
(b) Supplier's model identifier	PROTEUS PREMIX PPR 20 HCH / PROTEUS PREMIX PPR 20 HST			
(c) Space heating: medium temperature application	YES			
(d) Seasonal space heating energy efficiency class	A			
(e) Rated heat output, including the rated heat output of any supplementary heater	20,2	kW		
(f) Space heating: annual energy consumption		kWh	and/ or	63 GJ
(g) Seasonal space heating energy efficiency	91,4	%		
(h) Sound power level, indoors	49	dB(A)		
(i) Combination heater is able to work only during off-peak hours	NO			
(j) Specific precautions for assembly, installation and maintenance	All specific precautions for installation, assembly and maintenance are described in the installation and service manual.			

Product Information Requirements (according to EU regulation No 813/2013)

Model	PROTEUS PREMIX PPR 20 HCH / PROTEUS PREMIX PPR 20 HST		
condensing boiler	YES		
low temperature boiler**	YES		
B1 boiler	NO		
Cogeneration space heater	NO	If yes, equipped with a supplementary heater [Yes/No]	
Combination heater	NO		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	P_{rated}	20,2	kW	Seasonal space heating energy efficiency	η_s	91,4	%
For boiler space heaters and boiler combination heaters: Useful heat output				For boiler space heaters and boiler combination heaters: Useful efficiency			
At rated heat output and high-temperature regime (*)	P_4	20,2	kW	At rated heat output and high-temperature regime (*)	η_4	87,9	%
At 30 % of rated heat output and low-temperature regime (**)	P_1	6,6	kW	At 30 % of rated heat output and low-temperature regime (**)	η_1	96,4	%
Supplementary heater							
Rated heat output				P_{sup}	0	kW	
Type of energy input							

Auxiliary electricity consumption				Other items			
At full load e_{lmax}		0,035	kW	Standby heat loss	P_{sby}	0,065	kW
At part load e_{lmin}		0,012	kW	Ignition burner power consumption	P_{ign}	0	kW
In standby mode	P_{SB}	0,005	kW	Emission of Nitrogen Oxides	No_x	27,20	mg/kWh

Contact details	Emas Makina Sanayi A.Ş. - Organize Sanayi Bölgesi III. Kısım Mustafa Kemal Bulvarı No:13 MANİSA 45030
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(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(**) 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).

Specific precautions that shall be taken when the space heater is assembled, installed or maintained/ information relevant for disassembly, recycling and/or disposal at end-of-life

All specific precautions for assembly, installation and maintenance and information relevant for disassembly, recycling and/or disposal at end-of-life are described in the operating and installation instructions. Read and follow the operating and installation instructions.

For type B1 boiler and type B1 combination boiler:

This natural draught boiler is intended to be connected only to a flue shared between multiple dwellings in existing buildings that evacuates the residues of combustion to the outside of the room containing the boiler. It draws the combustion air directly from the room and incorporates a draught diverter. Due to lower efficiency, any other use of this boiler shall be avoided and would result in higher energy consumption and higher operating costs.

Product Fiche (according to EU regulation No 811/2013)

(a) Supplier's name or trademark	E.C.A.			
(b) Supplier's model identifier	PROTEUS PREMIX PPR 24 HM			
(c) Space heating: medium temperature application	YES	Water heating: declared load profile	XL	
(d) Seasonal space heating energy efficiency class	A	Water heating energy efficiency class	A	
(e) Rated heat output, including the rated heat output of any supplementary heater	24,5	kW		
(f) Space heating: annual energy consumption		kWh	and/ or	76
				GJ
Water heating: annual electricity and/ or fuel consumption		kWh	and/ or	18
				GJ
(g) Seasonal space heating energy efficiency	92,2	%	Water heating energy efficiency	83,6
				%
(h) Sound power level, indoors	49	dB(A)		
(i) Combination heater is able to work only during off-peak hours	NO			
(j) Specific precautions for assembly, installation and maintenance	All specific precautions for installation, assembly and maintenance are described in the installation and service manual.			

Product Information Requirements (according to EU regulation No 813/2013)

Model	PROTEUS PREMIX PPR 24 HM		
condensing boiler	YES		
low temperature boiler**	YES		
B1 boiler	NO		
Cogeneration space heater	NO	If yes, equipped with a supplementary heater [Yes/No]	
Combination heater	YES		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	P_{rated}	24,5	kW	Seasonal space heating energy efficiency	η_s	92,2	%
For boiler space heaters and boiler combination heaters: Useful heat output				For boiler space heaters and boiler combination heaters: Useful efficiency			
At rated heat output and high-temperature regime (**)	P_4	24,5	kW	At rated heat output and high-temperature regime (**)	η_4	87,9	%
At 30 % of rated heat output and low-temperature regime (**)	P_1	8	kW	At 30 % of rated heat output and low-temperature regime (**)	η_1	97,2	%
Supplementary heater							
Rated heat output				P_{sup}	0	kW	
Type of energy input							

Auxiliary electricity consumption				Other items			
At full load e_{lmax}		0,040	kW	Standby heat loss	P_{stby}	0,065	kW
At part load e_{lmin}		0,012	kW	Ignition burner power consumption	P_{ign}	0	kW
In standby mode	P_{SB}	0,005	kW	Emission of Nitrogen Oxides	NO_x	36,51	mg/kWh

For combination heaters:

Declared load profile	XL			Water heating energy efficiency	η_{wh}	83,6	%
Daily electricity consumption	Q_{elec}	0,200	kWh	Daily fuel consumption	Q_{fuel}	22,8	kWh

Contact details	Emas Makina Sanayi A.Ş. - Organize Sanayi Bölgesi III. Kısım Mustafa Kemal Bulvarı No:13 MANİSA 45030
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(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(**) 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).

Specific precautions that shall be taken when the space heater is assembled, installed or maintained/ information relevant for disassembly, recycling and/or disposal at end-of-life

All specific precautions for assembly, installation and maintenance and information relevant for disassembly, recycling and/or disposal at end-of-life are described in the operating and installation instructions. Read and follow the operating and installation instructions.

For type B1 boiler and type B1 combination boiler:

This natural draught boiler is intended to be connected only to a flue shared between multiple dwellings in existing buildings that evacuates the residues of combustion to the outside of the room containing the boiler. It draws the combustion air directly from the room and incorporates a draught diverter. Due to lower efficiency, any other use of this boiler shall be avoided and would result in higher energy consumption and higher operating costs.

Product Fiche (according to EU regulation No 811/2013)

(a) Supplier's name or trademark	E.C.A.			
(b) Supplier's model identifier	PROTEUS PREMIX PPR 24 HCH / PROTEUS PREMIX PPR 24 HST			
(c) Space heating: medium temperature application	YES			
(d) Seasonal space heating energy efficiency class	A			
(e) Rated heat output, including the rated heat output of any supplementary heater	24,5	kW		
(f) Space heating: annual energy consumption		kWh	and/ or	76 GJ
(g) Seasonal space heating energy efficiency	92,2	%		
(h) Sound power level, indoors	49	dB(A)		
(i) Combination heater is able to work only during off-peak hours	NO			
(j) Specific precautions for assembly, installation and maintenance	All specific precautions for installation, assembly and maintenance are described in the installation and service manual.			

Product Information Requirements (according to EU regulation No 813/2013)

Model	PROTEUS PREMIX PPR 24 HCH / PROTEUS PREMIX PPR 24 HST		
condensing boiler	YES		
low temperature boiler**	YES		
B1 boiler	NO		
Cogeneration space heater	NO	If yes, equipped with a supplementary heater [Yes/No]	
Combination heater	NO		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	P_{rated}	24,5	kW	Seasonal space heating energy efficiency	η_s	92,2	%
For boiler space heaters and boiler combination heaters: Useful heat output				For boiler space heaters and boiler combination heaters: Useful efficiency			
At rated heat output and high-temperature regime (*)	P_4	24,5	kW	At rated heat output and high-temperature regime (*)	η_4	87,9	%
At 30 % of rated heat output and low-temperature regime (**)	P_1	8	kW	At 30 % of rated heat output and low-temperature regime (**)	η_1	97,2	%
Supplementary heater							
Rated heat output				P_{sup}	0	kW	
Type of energy input							

Auxiliary electricity consumption				Other items			
At full load e_{lmax}		0,040	kW	Standby heat loss	P_{sby}	0,065	kW
At part load e_{lmin}		0,012	kW	Ignition burner power consumption	P_{ign}	0	kW
In standby mode	P_{SB}	0,005	kW	Emission of Nitrogen Oxides	No_x	36,51	mg/kWh

Contact details	Emas Makina Sanayi A.Ş. - Organize Sanayi Bölgesi III. Kısım Mustafa Kemal Bulvarı No:13 MANİSA 45030
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(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(**) 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).

Specific precautions that shall be taken when the space heater is assembled, installed or maintained/ information relevant for disassembly, recycling and/or disposal at end-of-life

All specific precautions for assembly, installation and maintenance and information relevant for disassembly, recycling and/or disposal at end-of-life are described in the operating and installation instructions. Read and follow the operating and installation instructions.

For type B1 boiler and type B1 combination boiler:

This natural draught boiler is intended to be connected only to a flue shared between multiple dwellings in existing buildings that evacuates the residues of combustion to the outside of the room containing the boiler. It draws the combustion air directly from the room and incorporates a draught diverter. Due to lower efficiency, any other use of this boiler shall be avoided and would result in higher energy consumption and higher operating costs.

Product Fiche (according to EU regulation No 811/2013)

(a) Supplier's name or trademark	E.C.A.			
(b) Supplier's model identifier	PROTEUS PREMIX PPR 28 HM			
(c) Space heating: medium temperature application	YES	Water heating: declared load profile	XL	
(d) Seasonal space heating energy efficiency class	A	Water heating energy efficiency class	A	
(e) Rated heat output, including the rated heat output of any supplementary heater	28,0	kW		
(f) Space heating: annual energy consumption		kWh	and/ or	87
				GJ
Water heating: annual electricity and/ or fuel consumption		kWh	and/ or	18
				GJ
(g) Seasonal space heating energy efficiency	92,4	%	Water heating energy efficiency	83,9
				%
(h) Sound power level, indoors	49	dB(A)		
(i) Combination heater is able to work only during off-peak hours	NO			
(j) Specific precautions for assembly, installation and maintenance	All specific precautions for installation, assembly and maintenance are described in the installation and service manual.			

Product Information Requirements (according to EU regulation No 813/2013)

Model	PROTEUS PREMIX PPR 28 HM		
condensing boiler	YES		
low temperature boiler**	YES		
B1 boiler	NO		
Cogeneration space heater	NO	If yes, equipped with a supplementary heater [Yes/No]	
Combination heater	YES		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	P_{rated}	28,0	kW	Seasonal space heating energy efficiency	η_s	92,4	%
For boiler space heaters and boiler combination heaters: Useful heat output				For boiler space heaters and boiler combination heaters: Useful efficiency			
At rated heat output and high-temperature regime (**)	P_4	28,0	kW	At rated heat output and high-temperature regime (**)	η_4	87,9	%
At 30 % of rated heat output and low-temperature regime (**)	P_1	9,3	kW	At 30 % of rated heat output and low-temperature regime (**)	η_1	97,2	%
Supplementary heater							
Rated heat output				P_{sup}	0	kW	
Type of energy input							

Auxiliary electricity consumption				Other items			
At full load e_{lmax}	0,051	kW		Standby heat loss	P_{stby}	0,065	kW
At part load e_{lmin}	0,012	kW		Ignition burner power consumption	P_{ign}	0	kW
In standby mode	P_{SB}	0,004	kW	Emission of Nitrogen Oxides	NO_x	21,29	mg/kWh

For combination heaters:

Declared load profile	XL			Water heating energy efficiency	η_{wh}	83,9	%
Daily electricity consumption	Q_{elec}	0,220	kWh	Daily fuel consumption	Q_{fuel}	22,8	kWh

Contact details	Emas Makina Sanayi A.Ş. - Organize Sanayi Bölgesi III. Kısım Mustafa Kemal Bulvarı No:13 MANİSA 45030
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(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(**) 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).

Specific precautions that shall be taken when the space heater is assembled, installed or maintained/ information relevant for disassembly, recycling and/or disposal at end-of-life

All specific precautions for assembly, installation and maintenance and information relevant for disassembly, recycling and/or disposal at end-of-life are described in the operating and installation instructions. Read and follow the operating and installation instructions.

For type B1 boiler and type B1 combination boiler:

This natural draught boiler is intended to be connected only to a flue shared between multiple dwellings in existing buildings that evacuates the residues of combustion to the outside of the room containing the boiler. It draws the combustion air directly from the room and incorporates a draught diverter. Due to lower efficiency, any other use of this boiler shall be avoided and would result in higher energy consumption and higher operating costs.

Product Fiche (according to EU regulation No 811/2013)

(a) Supplier's name or trademark	E.C.A.			
(b) Supplier's model identifier	PROTEUS PREMIX PPR 28 HCH / PROTEUS PREMIX PPR 28 HST			
(c) Space heating: medium temperature application	YES			
(d) Seasonal space heating energy efficiency class	A			
(e) Rated heat output, including the rated heat output of any supplementary heater	28,0	kW		
(f) Space heating: annual energy consumption		kWh	and/ or	87 GJ
(g) Seasonal space heating energy efficiency	92,4	%		
(h) Sound power level, indoors	49	dB(A)		
(i) Combination heater is able to work only during off-peak hours	NO			
(j) Specific precautions for assembly, installation and maintenance	All specific precautions for installation, assembly and maintenance are described in the installation and service manual.			

Product Information Requirements (according to EU regulation No 813/2013)

Model	PROTEUS PREMIX PPR 28 HCH / PROTEUS PREMIX PPR 28 HST		
condensing boiler	YES		
low temperature boiler**	YES		
B1 boiler	NO		
Cogeneration space heater	NO	If yes, equipped with a supplementary heater [Yes/No]	
Combination heater	NO		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	P_{rated}	28,0	kW	Seasonal space heating energy efficiency	η_s	92,4	%
For boiler space heaters and boiler combination heaters: Useful heat output				For boiler space heaters and boiler combination heaters: Useful efficiency			
At rated heat output and high-temperature regime (*)	P_4	28,0	kW	At rated heat output and high-temperature regime (*)	η_4	87,9	%
At 30 % of rated heat output and low-temperature regime (**)	P_1	9,3	kW	At 30 % of rated heat output and low-temperature regime (**)	η_1	97,2	%
Supplementary heater							
Rated heat output				P_{sup}	0	kW	
Type of energy input							

Auxiliary electricity consumption				Other items			
At full load e_{lmax}		0,051	kW	Standby heat loss	P_{sby}	0,065	kW
At part load e_{lmin}		0,012	kW	Ignition burner power consumption	P_{ign}	0	kW
In standby mode	P_{SB}	0,004	kW	Emission of Nitrogen Oxides	No_x	21,29	mg/kWh

Contact details	Emas Makina Sanayi A.Ş. - Organize Sanayi Bölgesi III. Kısım Mustafa Kemal Bulvarı No:13 MANİSA 45030
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(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(**) 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).

Specific precautions that shall be taken when the space heater is assembled, installed or maintained/ information relevant for disassembly, recycling and/or disposal at end-of-life

All specific precautions for assembly, installation and maintenance and information relevant for disassembly, recycling and/or disposal at end-of-life are described in the operating and installation instructions. Read and follow the operating and installation instructions.

For type B1 boiler and type B1 combination boiler:

This natural draught boiler is intended to be connected only to a flue shared between multiple dwellings in existing buildings that evacuates the residues of combustion to the outside of the room containing the boiler. It draws the combustion air directly from the room and incorporates a draught diverter. Due to lower efficiency, any other use of this boiler shall be avoided and would result in higher energy consumption and higher operating costs.

Product Fiche (according to EU regulation No 811/2013)

(a) Supplier's name or trademark	E.C.A.			
(b) Supplier's model identifier	PROTEUS PREMIX PPR 30 HM			
(c) Space heating: medium temperature application	YES	Water heating: declared load profile	XL	
(d) Seasonal space heating energy efficiency class	A	Water heating energy efficiency class	A	
(e) Rated heat output, including the rated heat output of any supplementary heater	30,0	kW		
(f) Space heating: annual energy consumption		kWh	and/ or	94
				GJ
		kWh	and/ or	18
				GJ
(g) Seasonal space heating energy efficiency	92,0	%	Water heating energy efficiency	82,8
				%
(h) Sound power level, indoors	49	dB(A)		
(i) Combination heater is able to work only during off-peak hours	NO			
(j) Specific precautions for assembly, installation and maintenance	All specific precautions for installation, assembly and maintenance are described in the installation and service manual.			

Product Information Requirements (according to EU regulation No 813/2013)

Model	PROTEUS PREMIX PPR 30 HM		
condensing boiler	YES		
low temperature boiler**	YES		
B1 boiler	NO		
Cogeneration space heater	NO	If yes, equipped with a supplementary heater [Yes/No]	
Combination heater	YES		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	P_{rated}	30,0	kW	Seasonal space heating energy efficiency	η_s	92,0	%
For boiler space heaters and boiler combination heaters: Useful heat output				For boiler space heaters and boiler combination heaters: Useful efficiency			
At rated heat output and high-temperature regime (**)	P_4	30,0	kW	At rated heat output and high-temperature regime (**)	η_4	87,9	%
At 30 % of rated heat output and low-temperature regime (**)	P_1	9,9	kW	At 30 % of rated heat output and low-temperature regime (**)	η_1	97,0	%
Supplementary heater							
Rated heat output				P_{sup}	0	kW	
Type of energy input							

Auxiliary electricity consumption				Other items			
At full load e_{lmax}		0,056	kW	Standby heat loss	P_{stby}	0,065	kW
At part load e_{lmin}		0,013	kW	Ignition burner power consumption	P_{ign}	0	kW
In standby mode	P_{SB}	0,004	kW	Emission of Nitrogen Oxides	NO_x	28,82	mg/kWh

For combination heaters:				Water heating energy efficiency			
Declared load profile	XL			η_{wh}	82,8	%	
Daily electricity consumption	Q_{elec}	0,240	kWh	Daily fuel consumption	Q_{fuel}	23,02	kWh

Contact details	Emas Makina Sanayi A.Ş. - Organize Sanayi Bölgesi III. Kısım Mustafa Kemal Bulvarı No:13 MANİSA 45030
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(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(**) 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).

Specific precautions that shall be taken when the space heater is assembled, installed or maintained/ information relevant for disassembly, recycling and/or disposal at end-of-life

All specific precautions for assembly, installation and maintenance and information relevant for disassembly, recycling and/or disposal at end-of-life are described in the operating and installation instructions. Read and follow the operating and installation instructions.

For type B1 boiler and type B1 combination boiler:

This natural draught boiler is intended to be connected only to a flue shared between multiple dwellings in existing buildings that evacuates the residues of combustion to the outside of the room containing the boiler. It draws the combustion air directly from the room and incorporates a draught diverter. Due to lower efficiency, any other use of this boiler shall be avoided and would result in higher energy consumption and higher operating costs.

Product Fiche (according to EU regulation No 811/2013)

(a) Supplier's name or trademark	E.C.A.			
(b) Supplier's model identifier	PROTEUS PREMIX PPR 30 HCH / PROTEUS PREMIX PPR 30 HST			
(c) Space heating: medium temperature application	YES			
(d) Seasonal space heating energy efficiency class	A			
(e) Rated heat output, including the rated heat output of any supplementary heater	30,0	kW		
(f) Space heating: annual energy consumption		kWh	and/ or	94 GJ
(g) Seasonal space heating energy efficiency	92,0	%		
(h) Sound power level, indoors	49	dB(A)		
(i) Combination heater is able to work only during off-peak hours	NO			
(j) Specific precautions for assembly, installation and maintenance	All specific precautions for installation, assembly and maintenance are described in the installation and service manual.			

Product Information Requirements (according to EU regulation No 813/2013)

Model	PROTEUS PREMIX PPR 30 HCH / PROTEUS PREMIX PPR 30 HST		
condensing boiler	YES		
low temperature boiler**	YES		
B1 boiler	NO		
Cogeneration space heater	NO	If yes, equipped with a supplementary heater [Yes/No]	
Combination heater	NO		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	P_{rated}	30,0	kW	Seasonal space heating energy efficiency	η_s	92,0	%
For boiler space heaters and boiler combination heaters: Useful heat output				For boiler space heaters and boiler combination heaters: Useful efficiency			
At rated heat output and high-temperature regime (*)	P_4	30,0	kW	At rated heat output and high-temperature regime (*)	η_4	87,9	%
At 30 % of rated heat output and low-temperature regime (**)	P_1	9,9	kW	At 30 % of rated heat output and low-temperature regime (**)	η_1	97,0	%
Supplementary heater							
Rated heat output				P_{sup}	0	kW	
Type of energy input							

Auxiliary electricity consumption				Other items			
At full load e_{lmax}		0,056	kW	Standby heat loss	P_{sby}	0,065	kW
At part load e_{lmin}		0,013	kW	Ignition burner power consumption	P_{ign}	0	kW
In standby mode	P_{SB}	0,004	kW	Emission of Nitrogen Oxides	No_x	28,82	mg/kWh

Contact details	Emas Makina Sanayi A.Ş. - Organize Sanayi Bölgesi III. Kısım Mustafa Kemal Bulvarı No:13 MANİSA 45030
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(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(**) 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).

Specific precautions that shall be taken when the space heater is assembled, installed or maintained/ information relevant for disassembly, recycling and/or disposal at end-of-life

All specific precautions for assembly, installation and maintenance and information relevant for disassembly, recycling and/or disposal at end-of-life are described in the operating and installation instructions. Read and follow the operating and installation instructions.

For type B1 boiler and type B1 combination boiler:

This natural draught boiler is intended to be connected only to a flue shared between multiple dwellings in existing buildings that evacuates the residues of combustion to the outside of the room containing the boiler. It draws the combustion air directly from the room and incorporates a draught diverter. Due to lower efficiency, any other use of this boiler shall be avoided and would result in higher energy consumption and higher operating costs.

Product Fiche (according to EU regulation No 811/2013)

(a) Supplier's name or trademark	E.C.A.			
(b) Supplier's model identifier	PROTEUS PREMIX PPR 35 HM			
(c) Space heating: medium temperature application	YES	Water heating: declared load profile	XL	
(d) Seasonal space heating energy efficiency class	A	Water heating energy efficiency class	A	
(e) Rated heat output, including the rated heat output of any supplementary heater	35,0	kW		
(f) Space heating: annual energy consumption		kWh	and/ or	109
				GJ
Water heating: annual electricity and/ or fuel consumption		kWh	and/ or	18
				GJ
(g) Seasonal space heating energy efficiency	92,9	%	Water heating energy efficiency	82,8
				%
(h) Sound power level, indoors	49	dB(A)		
(i) Combination heater is able to work only during off-peak hours	NO			
(j) Specific precautions for assembly, installation and maintenance	All specific precautions for installation, assembly and maintenance are described in the installation and service manual.			

Product Information Requirements (according to EU regulation No 813/2013)

Model	CALORA PREMIX 35 HM		
condensing boiler	YES		
low temperature boiler**	YES		
B1 boiler	NO		
Cogeneration space heater	NO	If yes, equipped with a supplementary heater [Yes/No]	
Combination heater	YES		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	P_{rated}	35,0	kW	Seasonal space heating energy efficiency	η_s	92,9	%
For boiler space heaters and boiler combination heaters: Useful heat output				For boiler space heaters and boiler combination heaters: Useful efficiency			
At rated heat output and high-temperature regime (**)	P_4	35,0	kW	At rated heat output and high-temperature regime (**)	η_4	87,9	%
At 30 % of rated heat output and low-temperature regime (**)	P_1	11,7	kW	At 30 % of rated heat output and low-temperature regime (**)	η_1	97,9	%
Supplementary heater							
Rated heat output				P_{sup}	0	kW	
Type of energy input							

Auxiliary electricity consumption				Other items			
At full load e_{lmax}		0,066	kW	Standby heat loss	P_{stby}	0,065	kW
At part load e_{lmin}		0,013	kW	Ignition burner power consumption	P_{ign}	0	kW
In standby mode	P_{SB}	0,004	kW	Emission of Nitrogen Oxides	NO_x	39,78	mg/kWh

For combination heaters:

Declared load profile	XL			Water heating energy efficiency	η_{wh}	82,8	%
Daily electricity consumption	Q_{elec}	0,240	kWh	Daily fuel consumption	Q_{fuel}	23,05	kWh

Contact details	Emas Makina Sanayi A.Ş. - Organize Sanayi Bölgesi III. Kısım Mustafa Kemal Bulvarı No:13 MANİSA 45030
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(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(**) 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).

Specific precautions that shall be taken when the space heater is assembled, installed or maintained/ information relevant for disassembly, recycling and/or disposal at end-of-life

All specific precautions for assembly, installation and maintenance and information relevant for disassembly, recycling and/or disposal at end-of-life are described in the operating and installation instructions. Read and follow the operating and installation instructions.

For type B1 boiler and type B1 combination boiler:

This natural draught boiler is intended to be connected only to a flue shared between multiple dwellings in existing buildings that evacuates the residues of combustion to the outside of the room containing the boiler. It draws the combustion air directly from the room and incorporates a draught diverter. Due to lower efficiency, any other use of this boiler shall be avoided and would result in higher energy consumption and higher operating costs.

Product Fiche (according to EU regulation No 811/2013)

(a) Supplier's name or trademark	E.C.A.			
(b) Supplier's model identifier	PROTEUS PREMIX PPR 35 HCH / PROTEUS PREMIX PPR 35 HST			
(c) Space heating: medium temperature application	YES			
(d) Seasonal space heating energy efficiency class	A			
(e) Rated heat output, including the rated heat output of any supplementary heater	35,0	kW		
(f) Space heating: annual energy consumption		kWh	and/ or	109 GJ
(g) Seasonal space heating energy efficiency	92,9	%		
(h) Sound power level, indoors	49	dB(A)		
(i) Combination heater is able to work only during off-peak hours	NO			
(j) Specific precautions for assembly, installation and maintenance	All specific precautions for installation, assembly and maintenance are described in the installation and service manual.			

Product Information Requirements (according to EU regulation No 813/2013)

Model	PROTEUS PREMIX PPR 35 HCH / PROTEUS PREMIX PPR 35 HST		
condensing boiler	YES		
low temperature boiler**	YES		
B1 boiler	NO		
Cogeneration space heater	NO	If yes, equipped with a supplementary heater [Yes/No]	
Combination heater	NO		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	P_{rated}	35,0	kW	Seasonal space heating energy efficiency	η_s	92,9	%
For boiler space heaters and boiler combination heaters: Useful heat output				For boiler space heaters and boiler combination heaters: Useful efficiency			
At rated heat output and high-temperature regime (*)	P_4	35,0	kW	At rated heat output and high-temperature regime (*)	η_4	87,9	%
At 30 % of rated heat output and low-temperature regime (**)	P_1	11,7	kW	At 30 % of rated heat output and low-temperature regime (**)	η_1	97,9	%
Supplementary heater							
Rated heat output				P_{sup}	0	kW	
Type of energy input							

Auxiliary electricity consumption				Other items			
At full load e_{lmax}		0,066	kW	Standby heat loss	P_{sby}	0,065	kW
At part load e_{lmin}		0,013	kW	Ignition burner power consumption	P_{ign}	0	kW
In standby mode	P_{SB}	0,004	kW	Emission of Nitrogen Oxides	No_x	39,78	mg/kWh

Contact details	Emas Makina Sanayi A.Ş. - Organize Sanayi Bölgesi III. Kısım Mustafa Kemal Bulvarı No:13 MANİSA 45030
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(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(**) 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).

Specific precautions that shall be taken when the space heater is assembled, installed or maintained/ information relevant for disassembly, recycling and/or disposal at end-of-life

All specific precautions for assembly, installation and maintenance and information relevant for disassembly, recycling and/or disposal at end-of-life are described in the operating and installation instructions. Read and follow the operating and installation instructions.

For type B1 boiler and type B1 combination boiler:

This natural draught boiler is intended to be connected only to a flue shared between multiple dwellings in existing buildings that evacuates the residues of combustion to the outside of the room containing the boiler. It draws the combustion air directly from the room and incorporates a draught diverter. Due to lower efficiency, any other use of this boiler shall be avoided and would result in higher energy consumption and higher operating costs.

