Product type	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
Gas Category		I2H, I3P, I2Esi, I2E(S), II2L3P, II2H3P, II2ELL3P, II2Esi3P					
Flue Types		C_{13}(X), C_{33}(X), C_{43}(X), C_{53}(X), C_{63}(X), C_{83}(X), B_{23}, B_{33}					
Gas Input Pressure (G20)	mbar	20					
Gas Input Pressure (G25)	mbar	20/25					
Gas Input Pressure (LPG G31)	mbar	37/50					
Capacity-Efficiency							
Min. Heating power - (@60°C min)	kW	5,6	5,6	5,6	6,4	6,9	8
Max. Heating power - (@80/60°C) (P4)	kW	14,1	20,2	24,5	28	30	35
Min. Heating power - (@30°C min)	kW	6,7	6,7	6,7	7,7	8,3	9,6
Max. Heating power- (@50/30°C)	kW	15	22,2	26	29,6	31,7	37
Min. Heat input (Qn)	kW	6,2	6,2	6,2	7,2	7,7	9
Max. Heat input (Qn)	kW	14,5	20,7	25,2	28,7	30,8	35,9
Efficiency (@80°/60° C Max) (Gross Calorific value)	%	97,50%	97,50%	97,50%	97,50%	97,50%	97,50%
Efficiency (30°C Return) (Gross Calorific value)	%	107,50%	107,50%	107,50%	107,50%	107,50%	107,50%
ERP Informations							
Seasonal Space Heating Energy Efficiency Class		A	A	A	A	A	A
Water Heating Energy Efficiency Class/ Load Profile		A/XL	A/XL	A/XL	A/XL	A/XL	A/XL
Rated Heat Output (Prated)	kW	20,2	20,2	24,5	28	30	35
Seasonal Space Heating Energy Efficiency	%	91,11	91,4	92,2	92,4	92	92,9
Water Heating Energy Efficiency	%	83,6	83,6	83,6	83,9	82,8	82,8
Sound Power Level	db(A)	49	49	49	49	49	49
Efficiency at Rated Heat Output At High Temperature Regime (η_4)	%	87,9	87,9	87,9	87,9	87,9	87,9
Efficiency at 30% of rated Output At Low Temperature Regime (η_1)	%	97	97	97,2	97,4	97	97,9
At Full Load elmax	kW	0,028	0,035	0,04	0,051	0,056	0,066
At Part Load elmin	kW	0,012	0,012	0,012	0,012	0,013	0,013
In standby Mode	kW	0,004	0,004	0,004	0,004	0,004	0,004
Standby Heat Loss	kW	0,065	0,065	0,065	0,065	0,065	0,065
Emissions of Nox Level	mg/kWh	25,91	27,2	25,91	21,29	25,91	25,91
Daily Electricity Consumption (Qelect)	kWh	0,423	0,423	0,194	0,22	0,24	0,24
Daily Fuel Consumption (Qfuel)	kWh	22,88	22,88	22,8	22,8	23,021	23,021
Gas Consumption							
Natural Gas (@Min-Max Capactiy)	m^3/h	0,65-1,53	0,65-2,2	0,65-2,65	0,75-3,02	0,81-3,25	0,94-3,79
LPG (@Min-Max Capactiy)-Propane	kg/h	0,51-1,2	0,51-1,7	0,51-1,98	0,59-2,26	0,63-2,46	0,74-2,87
NO_X Class		6	6	6	6	6	6
Central Heating							
Min. Water Pressure	bar	0,4	0,4	0,4	0,4	0,4	0,4
Max. Water Pressure	bar	3	3	3	3	3	3
Operation Range (@Radiator heating)	°C	30-80	30-80	30-80	30-80	30-80	30-80
Operation Range (@Underfloor heating)	°C	30-45	30-45	30-45	30-45	30-45	30-45
Max. Limit temperature	°C	> 90	> 90	> 90	> 90	> 90	> 90
Domestic Hot Water (only valid for HM)							
Min. Domestic flow for operating	L/min	2 (±%10)	2 (±%10)	2 (±%10)	2 (±%10)	2 (±%10)	2 (±%10)
Min. Domestic flow for closing	L/min	1,5 (±%10)	1,5 (±%10)	1,5 (±%10)	1,5 (±%10)	1,5 (±%10)	1,5 (±%10)
Max. Domestic hot water flow rate	L/min	10 ±%15 (ΔT = 34,7°C)	10 ±%15 (ΔT = 34,7°C)	10 ±%15 (ΔT = 34,7°C)	12 ±%15 (ΔT = 33,5°C)	12 ±%15 (ΔT = 35,8°C)	14 ±%15 (ΔT = 35,8°C)
Min. Water Pressure	bar	0,4	0,4	0,4	0,4	0,4	0,4
Max. Water Pressure	bar	10	10	10	10	10	10
Operation Range	°C	30-65	30-65	30-65	30-65	30-65	30-65
Max. Limit temperature	°C	≥ 71	≥ 71	≥ 71	≥ 71	≥ 71	≥ 71
General							
Electrical Supply	V AC-Hz	230 VAC-50 Hz					
Electrical consumption (Max-Std Pump)	Watt	120	130	135	155	170	190
Electrical consumption (Max-HE Pump)	Watt	60	70	80	110	130	165
Protection Class		IPX4D					
Expansion Vessel	lt	8					
Weight (Net)	kg	28,5	28,5	28,5	30	30	32
Dimesions (HxWxD)	mm	678*410*288					
Flue Lenghts							
C13 – 60/100 Max.	m	10	10	10	10	10	10
C13 – 80/125 Max.	m	20	20	20	20	20	20
C33 – 60/100 Max.	m	10	10	10	10	10	10
C33 – 80/125 Max.	m	20	20	20	20	20	20
C43 – 60/100 Max.	m	10	10	10	10	10	10
C53 – 60/100 Max.	m	10	10	10	10	10	10
C83 – 80/80 Max.	m	28	28	28	28	28	28
C83 – 80/80 Min.	m	3	3	3	3	3	3
B23 – 80 Max.	m	28	28	28	28	28	28
B33- 60/100 Max.	m	10	10	10	10	10	10
Emission Values							
$C0_2$ ratio (@max-G20)	%	9,15 ± 0,2	9,2 ± 0,2	9,5 ± 0,2	9,5 ± 0,2	9,5 ± 0,2	9,5 ± 0,2
$C0_2$ ratio (@min-G20)	%	8,9 ± 0,2	8,9 ± 0,2	8,9 ± 0,2	8,9 ± 0,2	8,9 ± 0,2	8,9 ± 0,2
$C0_2$ ratio (@max-G31)	%	10,3 ± 0,2	10,3 ± 0,2	10,6 ± 0,2	10,6 ± 0,2	10,6 ± 0,2	10,6 ± 0,2
$C0_2$ ratio (@min-G31)	%	9,7 ± 0,2	9,7 ± 0,2	9,9 ± 0,2	9,9 ± 0,2	9,9 ± 0,2	9,9 ± 0,2
Boiler Circuit (only valid for HST)							
Operation Range	°C	30-65	30-65	30-65	30-65	30-65	30-65