TECHNICAL DATA

Heater type		Unit	VEGA10	VEGA13	VEGA16
Heater category			II_{2H3+}		
Heater model/design (as per ČSN EN 26:1998)			B_{11BS}		
Rated useful heat		kW	17,3	22,6	26,4
Rated power input		kW	19,7	26,2	30,5
Efficiency *		%	91,5	90	90,5
Minimum water overpressure		bar	0,2 ÷ 0,5		
Maximum water overpressure		bar	10		
Minimum water flowrate for ignition		$l.min^{-1}$	2,5		
Water flowrate range through heater at heating-up by 50 °C		$l.min^{-1}$	2,5 ÷ 5	2,5 ÷ 6,5	2,5 ÷ 8,0
Water flowrate range through heater at heating by 25 °C		$l.min^{-1}$	5 ÷ 10	6,5 ÷ 13	8,0 ÷ 15,2
Pressure loss of heater at water flowrate of 10 l/min and overpressure of 1 bar		bar	0,5	0,6	0,7
Prescribed fuel – connecting overpressure	G20 (Natural gas)	mbar	20		
	G30 (Butane, propane-butane)	mbar	29		
	G31 (Propane)	mbar	37		
Main burner nozzle diameter	G20	mm	1,40	1,35	1,35
	G30	mm	0,78		
	G31	mm	0,78		
Gas pressure on jet	G20	mm v.s./mbar	80 / 7,8	107 / 10,5	109 / 10,7
	G30	mm v.s./mbar	250 / 24,5	280 / 27,5	287 / 28,1
	G31	mm v.s./mbar	340 / 33,3	360 / 35,3	330 / 32,4
Pilot burner nozzle diameter	G20	mm	0,28		
	G30	mm	0,17		
	G31	mm	0,17		
Nominal gas consumption	G20	$m^3.h^{-1}$	2,071	2,76	3,211
	G30	$m^3.h^{-1}$ / $kg.h^{-1}$	0,631/1,52	0,806/1,94	0,96/2,31
	G31	$m^3.h^{-1}$ / $kg.h^{-1}$	0,81/1,52	1,05/1,97	1,16/2,09
Flue gas temperature		°C	180		
Mass flow rate		g/s	16,8	22,6	26,4
Flue gas nozzle diameter		mm	110	130	130
Heater weight netto/brutto		kg	11/13	14/16	15/17

Data for nominal gas consumption applies at gas temperature of 15 °C and atmospheric pressure of 1013.25 mbar, dry gas.

* chimney efficiency achieved at Δ 25 °C and maximum flowrate