

2 TECHNICAL DATA

2.1 TECHNICAL PERFORMANCE DATA - NATURAL GAS (Cat I2H 2H - G20 20 mbar)

		InTec 30GS	InTec 40GS
Heat input gross - DHW	kW	29.4	37.8
Heat input gross - CH	kW	20.6	31.3
Heat input net - DHW	kW	26.5	34.1
Heat input net - CH	kW	18.6	28.2
Heat output condensing (50/30°C) - CH	kW	19.8	30.3
Heat output non condensing (80/60°C) CH	kW	18.3	28.0
Heat output min. - CH	kW	3.2	7.2
Heat output nominal - DHW	kW	26.0	33.7
Heat output max. - DHW	kW	28.4	36.7
Gas rate at max. output	m³/h	2.8	3.6
Gas supply pressure	mbar	20	20
Max. CH temperature	°C	85	85
Gas burner injector diameter	mm	5.1	N/A
Differential burner pressure - min.	mbar	0.17	0.15
Differential burner pressure - CH	mbar	3.93	1.32
Differential burner pressure - DHW	mbar	7.87	2.04
DHW flow rate at 35°C rise	l/min	12.8	15.8
DHW flow rate at 30°C rise - EN625	l/min	14.0	18.4
DHW flow regulator	l/min	13	16
Dry NOx weight	mg/kWh	33	24
Dry NOx	ppm	19	14
NOx	Class	5	5
Factory set CO ₂ (± 0.25%)			
CO ₂ at maximum CH output	%	9.4	9.5
CO ₂ at maximum DHW output	%	9.4	9.5
CO ₂ at minimum output	%	8.6	8.7
CO weight (nominal)	mg/kWh	28	23
CO (max)	ppm	200	200
Maximum CO/CO ₂	Ratio	0.003	0.003
SAP/SEDBUK seasonality efficiency 2005	%	90.5	90.8
SAP/SEDBUK seasonality efficiency 2009	%	88.8	88.8
EN13203/2 DHW efficiency	%	81.0	79.4
Max. primary system pressure	bar	2.5	2.5
Min. primary system pressure	bar	0.5	0.5
Recommended system pressure - Cold	bar	1.0	1.0
System pressure relief valve setting	bar	3.0	3.0
Expansion vessel size	litres	8.0	8.0
Expansion vessel charge pressure	bar	1.0	1.0
Electrical power consumption - Max.	Watts	120	125
Electrical power consumption - Standby	Watts	6	6

2.2 TECHNICAL PERFORMANCE DATA - PROPANE GAS (Cat I3P 3P - G31 - 37 mbar)

		InTec 30GS	InTec 40GS
Heat input gross - DHW	kW	28.8	37.0
Heat input gross - CH	kW	20.2	30.6
Heat input net - DHW	kW	26.5	34.1
Heat input net - CH	kW	18.6	28.2
Heat output condensing (50/30°C) - CH	kW	20.0	30.7
Heat output non condensing (80/60°C) CH	kW	18.3	28.0
Heat output min. - CH	kW	3.2	7.2
Heat output nominal - DHW	kW	26.0	33.7
Heat output max. - DHW	kW	28.4	36.7
Gas rate at max. output	l/h	4.0	5.2
Gas supply pressure	mbar	37	37
Max. CH temperature	°C	85	85
Gas burner injector diameter	mm	3.8	5.8
Differential burner pressure - min.	mbar	0.2	0.25
Differential burner pressure - CH	mbar	4.93	2.21
Differential burner pressure - DHW	mbar	9.42	3.40
DHW flow rate at 35°C rise	l/min	12.0	15.6
DHW flow rate at 30°C rise - EN625	l/min	14.0	18.4
DHW flow regulator	l/min	13	16
Factory set max. CO ₂ (± 0.5%)			
CO ₂ maximum - CH output	%	10.5	10.5
CO ₂ maximum - DHW output	%	10.5	10.5
CO ₂ minimum output	%	9.7	9.4
Maximum CO/CO ₂	Ratio	0.003	0.003

2.3 PHYSICAL DATA

		InTec 30GS	InTec 40GS
Boiler flow and return connections	mm	22	22
Relief valve connection	mm	15	15
DHW inlet (cold) DHW outlet (hot) connections	mm	15	15
Gas connection diameter	mm	22	22
Boiler dimensions	Height	1000	1000
	Width	440	440
	Depth	360	360
Clearances for servicing	Bottom	150	150
	Top (horizontal flue)	235	235
	Top (vertical flue)	150	150
	Sides	5	5
	Front	450	450
Recommended hole size for flue pipe	mm	110	110
Boiler dry lift weight	kg	57	60
Boiler operating weight (full of water) approx.	kg	65	68
Max. total flue length	Horizontal	8	8
Max. total flue length	Vertical	10	10
Flue system diameter	mm	60/100	60/100
Factory fitted	Filling loop	Yes	Yes