

# Technical Data

## Fleet Horizontal Boilers

	Boiler Model	F40H	F50H	F60H	F70H	F85H	F100H	F125H	F150H	
Energy	Building Regulations seasonal efficiency gross (%)	97.4	97.4	95.5	95.5	95.5	95.5	95.5	97.4	
	Boiler output 50/30°C	kW Btu/h x 1000	40 136	50 171	60 205	70 239	85 290	100 341	125 427	150 512
	Boiler output 80/60°C	kW Btu/h x 1000	36.1 123	45.1 154	54.1 185	63.2 216	76.7 262	90.3 308	112.8 385	135.4 462
	Boiler input (gross) Maximum	kW Btu/h x 1000	41.0 140	51.3 175	61.5 210	71.8 245	87.2 298	102.6 350	128.2 437	153.8 525
	Boiler input (nett) Maximum	kW Btu/h x 1000	36.9 126	46.2 158	55.4 189	64.7 221	78.5 268	92.4 315	115.5 394	138.6 473
	Boiler output Minimum 80/60°C	kW Btu/h x 1000	7.2 25	9.0 31	10.8 37	12.6 43	15.3 52	17.9 61	21.6 74	26.9 92
Water	Water content (not including headers)	litres	4	4	5	5	6	6	7	8
	Design flow rate @ 20°C Δt rise	l/s	0.48	0.6	0.72	0.84	1.02	1.19	1.49	1.79
	Residual pump head @ 20°C Δt rise	kPa m	2.7 0.27	2.0 0.20	1.4 0.14	0.6 0.06	4.2 0.42	3.4 0.34	2.2 0.22	3.0 0.30
	Maximum water pressure	barg	6.0							
Gas	Gas flow rate natural gas (G20) – Maximum	m³/h	3.9	4.8	5.8	6.8	8.25	9.7	11.7	14.6
	Nominal gas inlet pressure natural gas (G20)	mbar	20							
	Maximum gas inlet pressure natural gas (G20)	mbar	25							
Flue	Approx. Flue gas volume @ 15°C, 9.1% CO <sub>2</sub> , N.T.P	m³/h	60	75	90	105	120	150	187	225
	Maximum flue gas temperature	°C	65							
	NO <sub>x</sub> Emission (DAF) European Class 5	mg/kWh	35	35	36	36	37	37	38	39
	Pressure at flue outlet	Pa mbar	150 1.5							
Connection	Water flow/return connections		Rp1"						Rp1 1/4"	
	Gas inlet connection		R3/4"						R1"	
	Nominal flue diameter (I/D)	mm	80						100	
	Safety valve (pipe tail)	mm	22							
	Condensate trap connection(s) (O/D)	mm	40							
Electrics	Power consumption – maximum	W	140	160	160	160	350	450	350	600
	Nominal supply voltage		230V 1Ph 50Hz							
	Module current	Start Amps Run Amps	0.85 0.35				2.1 1.0			2.4 1.2
	Approx. shipping weight	kg	100		111		122		144	155
	Noise emission @ 1m	Max dB (A)	56	58	52	54	58	61	63	68

# Technical Data

## Fleet Horizontal Boilers

	Boiler Model	F175H	F200H	F250H	F300H	F350H
Energy	Building Regulations seasonal efficiency gross (%)					
	Boiler output 50/30°C	kW Btu/h x 1000				
	Boiler output 80/60°C	kW Btu/h x 1000				
	Boiler input (gross) Maximum	kW Btu/h x 1000				
	Boiler input (nett) Maximum	kW Btu/h x 1000				
	Boiler output Minimum 80/60°C	kW Btu/h x 1000				
Water	Water content (not including headers)	litres				
	Design flow rate @ 20°C Δt rise	l/s				
	Residual pump head @ 20°C Δt rise	kPa m				
	Maximum water pressure	barg				
Gas	Gas flow rate natural gas (G20) – Maximum	m <sup>3</sup> /h				
	Nominal gas inlet pressure natural gas (G20)	mbar				
	Maximum gas inlet pressure natural gas (G20)	mbar				
Flue	Approx. Flue gas volume @ 15°C, 9.1% CO <sub>2</sub> , N.T.P	m <sup>3</sup> /h				
	Maximum flue gas temperature	°C				
	NO <sub>x</sub> Emission (DAF) European Class 5	mg/kWh				
	Pressure at flue outlet	Pa mbar				
Connection	Water flow/return connections					
	Gas inlet connection					
	Nominal flue diameter (I/D)	mm				
	Safety valve (pipe tail)	mm				
	Condensate trap connection(s) (O/D)	mm				
Electrics	Power consumption – maximum	W				
	Nominal supply voltage					
	Module current	Start Amps Run Amps				
	Approx. shipping weight	kg				
	Noise emission @ 1m	Max dB (A)				

Introduction  
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