

Technical Data Sheet

Model Nos. and pricing: see Price List



Vitogas 050

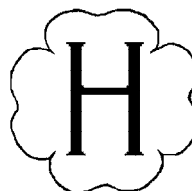
ECD-S Series

Gas-Fired Boiler

cast iron construction
atmospheric

Heating input: 65 to 200 MBH
19 to 59 kW

- Reliable, long-life cast iron construction.
- Efficient performance with large-diameter stainless steel burner.
- A.F.U.E. of up to 83.7%.
- Wet-base, sectional design.
- Space-saving, compact and quiet.
- Integrated draft hood and vent damper for chimney venting.
- Integrated pump aquastat.
- Minimal standby losses with 1 ½" insulation.



Technical Data

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Boiler Model	ECD-S	65	80	100	115	140	155	180	200
CSA input	MBH	65	80	100	115	140	155	180	200
	kW	19	23	29	34	41	45	53	59
CSA output / DOE output	MBH	54	66	83	95	116	129	149	166
	kW	16	19	24	28	34	38	44	49
A.F.U.E. *1 *2	%	83.7	83.5	83.5	83.5	83.5	83.4	83.2	83.0
Heat exchanger surface area	ft ²	14.32	14.32	21.10	21.10	27.99	27.99	34.88	34.88
	m ²	1.33	1.33	1.96	1.96	2.60	2.60	3.24	3.24
Cast iron sections		3	3	4	4	5	5	6	6
Burners		2	2	3	3	4	4	5	5
Manifold pressure									
Natural gas	"w.c.	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Propane gas	"w.c.	10	10	10	10	10	10	10	10
Max. gas supply pressure *3	"w.c.	14	14	14	14	14	14	14	14
Overall dimensions									
Overall depth	inches	19¾	19¾	19¾	19¾	19¾	19¾	19¾	19¾
	mm	502	502	502	502	502	502	502	502
Overall width	inches	13½	13½	17	17	21	21	25	25
	mm	340	340	432	432	533	533	635	635
Overall height	inches	43	43	43	43	43	43	46	46
	mm	1092	1092	1092	1092	1092	1092	1168	1168
Height of Vitocell-H DHW tank under boiler									
– 160 to 200 ltr / 42 to 53 USG capacity	inches	28¾	28¾	28¾	28¾	–	–	–	–
	mm	715	715	715	715				
– 350 ltr / 92 USG capacity	inches	33¾	33¾	33¾	33¾	33¾	33¾	33¾	33¾
	mm	847	847	847	847	847	847	847	847
– 450 ltr / 120 USG capacity	inches	–	–	–	–	37¾	37¾	37¾	37¾
	mm					947	947	947	947
Weight, boiler with insulation, burners and packaging	lbs	233	233	285	285	345	345	423	423
	kg	106	106	130	130	157	157	192	192
Boiler water content	USG	2.6	2.6	3.5	3.5	4.3	4.3	7.1	7.1
	ltr	9.9	9.9	13.2	13.2	16.5	16.5	26.8	26.8
Max. operating pressure	psig	50	50	50	50	50	50	50	50
	kPa	345	345	345	345	345	345	345	345
Boiler connections									
Boiler supply and return	Ø" (male thread)	1¼	1¼	1¼	1¼	1¼	1¼	1¼	1¼
Gas supply connection	Ø" (male thread)	½	½	½	½	½	½	½	½
Vent pipe collar	inches	5	5	6	6	7	7	7	7

*1 Each Vitogas 050, ECD-S Series boiler sold in North America comes with a FieldControls vent damper to comply with minimum A.F.U.E. requirement of 80% (when utilizing a natural draft chimney). If power venting, contact power venter manufacturer (FieldControls).

*2 With intermittent pilot electronic ignition system and vent damper.

*3 If the gas supply pressure is higher than the maximum permissible value, a separate field supplied gas regulator must be installed upstream of the boiler gas train.

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Technical information subject to change without notice

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