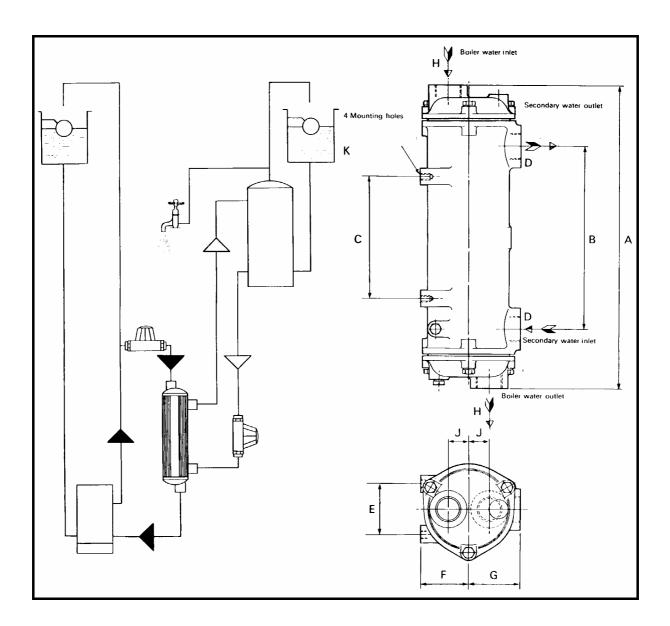


## NON-STORAGE CALORIFIERS

These calorifiers provide a simple method of heating water indirectly from a low pressure primary supply. Because both circuits can be pump assisted the surface area required is only about 25% of that required in conventional storage calorifiers. With new installations their compact modern design will result in a substantial cost and space saving. They also enable an indirect system to be installed replacing a direct system using existing storage tanks. They are of all non-ferrous construction on the secondary side and the construction is such that the tube stack can easily be removed from the shell should cleaning be necessary.

The calorifier should be installed vertically as shown on the drawings, both the boiler and the secondary water must be pump assisted. Indicated below are the ratings of the various units.



		А	В	С	D	E	F	G	Н	J	K
	kg	mm	mm	mm	BSP	mm	mm	mm	BSP	mm	
EC160-3345-5	10	572	452	416	G¾"	52	50	55	G¾"	20	M 6 x 10
FC160-3346-5	21	730	574	434	G1"	76	63	67	G1"	25	M 8 x 12
FG160-3347-5	31	924	746	642	G1¼"	76	70	80	G1¼"	32	M 8 x 12
GL320-3348-5	36	954	724	560	G1½"	120	90	100	G1½"	38	M10 x 15

Typical performance of non-storage calorifiers based on a boiler water flow of  $82^{\circ}C$  ( $180^{\circ}F$ ) and return of  $65^{\circ}C$  ( $150^{\circ}F$ ) with a cold water inlet of  $10^{\circ}C$  ( $50^{\circ}F$ ) heated to  $60^{\circ}C$  ( $140^{\circ}F$ ).

Туре	Boiler water pump flow		Head		Secondary water pump flow		Head		Heat transfer		Volume of water heated from 50°F to 140°F per hour	
	m <sup>3</sup> /h	gal/h	m	ft	m³/h	gal/h	m	ft	kcal/h	Btu/h	m <sup>3</sup>	gal
EC160-3345-5	1.0	220	0.3	1.0	1.0	220	0.4	1.3	17 000	66 000	0.34	73
	2.0	440	1.2	3.9	2.0	440	1.6	5.2	34 000	132 000	0.68	147
FC160-3346-5	2.5	550	0.8	2.6	2.5	550	1.6	5.2	42 500	165 000	0.85	183
	3.5	780	1.6	5.2	3.5	780	3.2	10.5	59 500	234 000	1.19	260
FG160-3347-5	4.5	1 000	1.3	4.3	4.5	1 000	2.6	8.5	76 500	300 000	1.53	333
	6.0	1 320	2.3	7.5	6.0	1 320	4.6	15.0	102 000	396 000	2.04	440
GL320-3348-5	7.2	1 600	1.1	3.6	7.2	1 600	2.4	7.9	122 400	480 000	2.49	533
	9.0	2 000	1.7	5.6	9.0	2 000	4.5	14.8	153 000	600 000	3.06	667

Maximum working pressure 20 bar (290lbs/in<sup>2</sup>) Maximum working temperature 100°C (212°F)