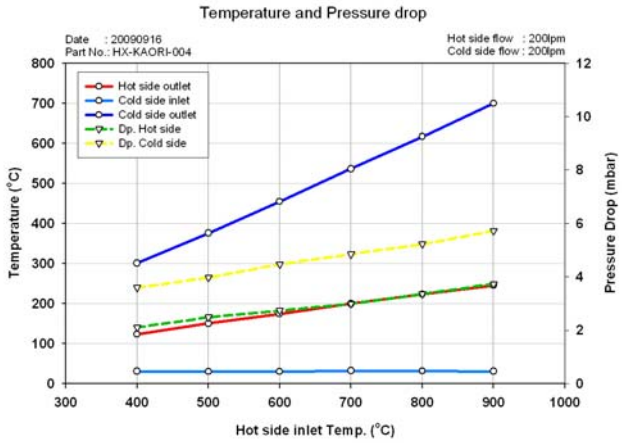
** BPHE for PEMFC applications

- Heat exchanger for fuel reformation in the reformer
- Heat exchanger for heat recovery from cell stack to produce hot water
- Heat exchanger for hydrogen generation system
- Heat exchanger for fuel cell test station

** BPHE for SOFC applications

- Heat exchanger for heat recovery and air preheating of the burner
- Heat exchanger for thermal management of the system
- Manifold and stack stand

Inconel 625 BPHE for SOFC system



Performance of a SUS 310 BPHE for SOFC system

**BPHE dimensions

	L1 (mm)	L2 (mm)	W1 (mm)	W2 (mm)	Weight (kg)	Thickness (mm)	Heat Transfer Area (m^2)/plate	Total Heat Transfer Area (m^2)	Volume (liter/channel)	Total Volume (liter)
K025F	205	172	73	42	0.81+0.04x(N-1)	8+2.27x(N-1)	0.0120	(N-2)x0.0120	0.025	(N-1)x0.025
K030	194	154	80	40	0.8+0.05N	10+2.25N	0.0117	(N-2)x0.0117	0.025	(N-1)x0.025
K040	311	278	73	40	0.84+0.07N	10+2.3N	0.01946	(N-2)x0.01946	0.040	(N-1)x0.040
K050	306	250	106	50	1.5+0.135N	10+2.4N	0.0255	(N-2)x0.0255	0.055	(N-1)x0.055
K070	304	250	124	70	1.6+0.15N	10+2.4N	0.0300	(N-2)x0.0300	0.065	(N-1)x0.065
K095	522	466	106	50	3.1+0.22N	10+2.4N	0.0475	(N-2)x0.0475	0.095	(N-1)x0.095
K105	504	444	124	64	3.5+0.24N	10+2.4N	0.0533	(N-2)x0.0533	0.107	(N-1)x0.107
K105D	504	444	124	64	4.9+0.24(M+N)	12+2.4(M+N)	0.0533	(M+N-4)x0.0533	0.107	(M+N-2)x0.107
K205	528	456	246	174	7.2+0.52N	11.5+2.4N	0.1099	(N-2)x0.1099	0.232	(N-1)x0.232
K205D	528	456	246	174	10.2+0.52(M+N)	14.5+2.4(M+N)	0.1099	(M+N-4)x0.1099	0.232	(M+N-2)x0.232
K210	527	430	245	148	8.5+0.49N	11.5+2.85N	0.1036	(N-2)x0.1036	0.289	(N-1)x0.289
K215	529	449	247	167	7.2+0.52N	13+2.4N	0.1103	(N-2)x0.1103	0.220	(N-1)x0.220

M, N= numbers of plates

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