Spaghetti Design Calculations

U	1		Annualization factor	0.25				
HEX	Q (kW)	Thentry	Thexit	Tcentry	Tcexit	LMTD	Area	
heater	54	300	300	162	180	128.7904253	0.419285827	
1	63	180	150	141	162	12.98425537	4.852030264	
2	21.64	150	144.59	130	141	11.57082102	1.870221651	
3	11.361	150	144.59	130	141	11.57082102	0.981866367	
4	210	144.59	80.328	60	130	17.30069985	12.13823728	
5	47.05	144.59	80.328	60	130	17.30069985	2.719543163	
6	139.951	144.59	80.328	60	130	17.30069985	8.089325933	
7	26.85	80.328	67.54	30	60	28.05963735	0.956890485	
8	51.15	80.328	67.54	30	60	28.05963735	1.822903103	
cooler	57.894	67.54	40	15	30	30.84634047	1.876851488	
cooler	110.16	67.54	40	15	30	30.84634047	3.571250214	HW1
								values
						Area Target	38.87911995	39.01
						Cost Hex	459439.56	259503.7
						Utility Costs	8160.54	8160
						Total Cost	123020.43	73036
						Cost/Area	3164.177331	1872.238

MER Calculations

U	1		Annualization factor	0.25				
HEX	Q (kW)	Thentry	Thexit	Tcentry	Tcexit	LMTD	Area	
heater	54	300	300	162	180	128.7904253	0.419286	
1	63	180	150	141	162	12.98425537	4.85203	
2	231	150	40	30	130	14.42695041	16.0117	
3	243	150	81.999	60	141	14.54397082	16.70795	
4	29	150	81.999	30	130	33.48954552	0.865942	
cooler	168	150	81.999	15	30	90.93981194	1.847376	HW1 values
						Area Target	40.70429	39.01
						Cost Hex	260352.1	259503.7
						Utility Costs	8160	8160
						Total Cost	73248.04	73036
						Cost/Area	1799.516	1872.238