

Lampiran 4: Tabel Hasil Pengolahan Data

Q (liter/sec)	Sudut semprotan air (°)	ϕ in	Pv in	ω in	ϕ out	Pv out	ω out	volume spesifik (m ³ /kg)
12	60	0.61	2.58701	0.016301	0.68	3.057	0.019355	0.8961
	70	0.66	2.49348	0.015697	0.79	3.35	0.021273	0.886
	80	0.64	2.4919	0.015687	0.8	4.148	0.026557	0.8885
14	60	0.52	2.3384	0.014697	0.95	4.272	0.027386	0.9014
	70	0.58	2.3255	0.014614	0.74	3.517	0.022372	0.891
	80	0.75	2.52	0.015868	0.8	3.392	0.021549	0.8763
16	60	0.6	2.4057	0.015131	0.66	2.645	0.016676	0.891
	70	0.69	2.5833	0.016277	0.67	2.841	0.017948	0.8835
	80	0.75	3.3727	0.021422	0.92	4.77	0.030736	0.9014
18	60	0.53	2.3155	0.01455	0.62	2.788	0.017603	0.8987
	70	0.6	2.475	0.015578	0.87	4.51	0.028983	0.8936
	80	0.55	2.3325	0.01466	0.63	3.266	0.020722	0.8961
20	60	0.63	2.3801	0.014966	0.8	3.597	0.022899	0.886
	70	0.69	2.6068	0.016429	0.91	3.437	0.021845	0.886
	80	0.62	2.414	0.015184	0.87	3.912	0.024985	0.8885

ρ (kg/m ³)	ϕ moist air in (kg/s)	ϕ moist air out (kg/s)	ϕ v in (kg/s)	h _v in (kJ/kg)	ϕ v out (kg/s)	h _v out (kJ/kg)	ϕ evaporation (kg/s)
1.11594688	0.013224	0.013264	0.000212	2556.4	0.000252	2558.2	3.97E-05
1.12866817	0.013375	0.013448	0.000207	2552.7	0.00028	2556.4	7.34E-05
1.1254924	0.013337	0.01348	0.000206	2553.6	0.000349	2561.8	0.000143
1.1093854	0.015513	0.015707	0.000225	2558.2	0.000419	2558.2	0.000194
1.12233446	0.015694	0.015814	0.000226	2554.5	0.000346	2552.7	0.00012
1.1411617	0.015957	0.016046	0.000249	2549.1	0.000338	2561.8	8.92E-05
1.12233446	0.017955	0.017982	0.000268	2554.5	0.000295	2554.5	2.73E-05
1.13186191	0.018107	0.018137	0.00029	2551.8	0.00032	2556.4	2.98E-05
1.1093854	0.017747	0.017909	0.000372	2554.5	0.000534	2561.8	0.000162
1.11271837	0.019779	0.019838	0.000284	2557.3	0.000343	2558.2	5.95E-05
1.11906893	0.019891	0.020154	0.000305	2555.4	0.000568	2561.8	0.000263
1.11594688	0.019836	0.019954	0.000287	2556.4	0.000405	2561.8	0.000119
1.12866817	0.02247	0.022645	0.000331	2552.7	0.000507	2558.2	0.000176
1.12866817	0.02247	0.022589	0.000363	2552.7	0.000483	2552.7	0.00012
1.1254924	0.022406	0.022623	0.000335	2553.6	0.000551	2558.2	0.000216

□ dry air (kg/s)	hair in (kJ/kg)	hair out (kJ/kg)	□ water in (kg/s)	hwater in (kJ/kg)	□ water out (kg/s)	hwater out (kJ/kg)	hwater wb (kJ/kg)	q out(kJ/s)
0.01301186	71.67187	80.51294	0.025	209.26	0.02496	167.45	100.59	1.051903
0.01316802	68.06918	84.38255	0.025	209.26	0.024927	154.91	96.41	1.370125
0.0131311	68.55727	101.0335	0.025	209.26	0.024857	150.74	94.32	1.484517
0.01528784	68.59906	101.0582	0.025	209.26	0.024806	159.09	96.41	1.28511
0.01546755	66.33269	89.10829	0.025	209.26	0.02488	154.91	94.32	1.377337
0.01570762	66.44909	88.20435	0.025	209.26	0.024911	152.83	94.32	1.472842
0.01768693	67.65151	71.59934	0.025	209.26	0.024973	154.91	96.41	1.362984
0.01781695	69.03567	75.88123	0.025	209.26	0.02497	150.74	96.41	1.467487
0.01737518	85.72304	111.7393	0.025	209.26	0.024838	146.56	96.41	1.591217
0.01949491	67.70914	76.03275	0.025	209.26	0.02494	152.83	96.41	1.419847
0.01958634	69.30684	107.2475	0.025	209.26	0.024737	150.74	98.5	1.502578
0.01954937	67.47557	86.0854	0.025	209.26	0.024881	142.38	96.41	1.688874
0.02213821	66.20337	89.58109	0.025	209.26	0.024824	152.83	94.32	1.437592
0.02210634	69.93828	83.76365	0.025	209.26	0.02488	148.65	98.5	1.533047
0.02207117	67.27446	94.91728	0.025	209.26	0.024784	140.29	96.41	1.754598

q max(kJ/s)	Effectivness
2.72074675	0.386623
2.82832929	0.484429
2.88696316	0.514214
2.83995127	0.452511
2.88481703	0.477443
2.88191673	0.511464
2.82388528	0.482663
2.82411962	0.519626
2.8368518	0.56091
2.82698837	0.502247
2.79486167	0.537621
2.83267614	0.596212
2.89006569	0.497425
2.78079315	0.551299
2.84210541	0.617358



Cs	m*	NTU
4,181	0,529085	0,551947
4,18076923	0,535087	0,779587
4,18	0,533483	0,860279
4,18083333	0,620625	0,718925
4,18076923	0,62786	0,786475
4,18	0,638275	0,885336
4,18076923	0,718314	0,828356
4,18	0,724278	0,946674
4,18	0,709896	1,086647
4,18	0,791143	0,915622
4,18	0,795658	1,0432
4,18	0,793438	1,288725
4,18	0,898781	0,943257
4,18	0,898781	1,158051
4,18	0,896252	1,491778

