

ภาคผนวก ค
ตารางแสดงผลการทดลอง

ตารางที่ ค.1 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 40^{\circ}\text{C}$ และ $m_w = 0.21 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr _{water}	De
0.464551	31.64963	36.91862	41.57301	41.03377	0.034573	15207.5	7719.082	0.00878	95.82235	0.530968	4.226628	3062.383
0.608944	32.33497	36.89039	41.57541	40.84967	0.048144	15181.32	10739.66	0.008767	95.80127	0.493115	4.234824	3057.11
0.687783	33.19434	37.08104	41.45926	40.6992	0.05912	15142.93	13168.76	0.008863	95.72485	0.46388	4.246896	3049.381
0.629914	33.73381	37.29958	41.8014	40.93102	0.073062	15225.61	16264.14	0.006861	96.06125	0.454864	4.220975	3066.031
0.779714	34.29064	37.3753	41.5224	40.62165	0.08511	15140.86	18928.33	0.00797	95.80521	0.423579	4.24755	3048.963
0.769535	34.70442	37.52702	41.62827	40.67754	0.096195	15164.14	21378.87	0.007315	95.80461	0.410944	4.240218	3053.652
0.845826	34.77488	37.47073	41.5868	40.56022	0.107549	15141.28	23904.28	0.007305	95.7761	0.396557	4.247415	3049.049
0.845447	35.6172	37.66858	41.66104	40.51298	0.121757	15145.17	27016.99	0.007253	95.75063	0.344432	4.24619	3049.831

ตารางที่ ค.2 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 40^{\circ}\text{C}$ และ $m_w = 0.25 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr _{water}	De
0.571795	28.94372	34.61366	40.8493	40.25742	0.034922	17990.3	7864.551	0.008454	95.11419	0.476243	4.295038	3622.765
0.694448	29.06564	35.17388	40.97162	40.22668	0.047838	18006.05	10763.62	0.007921	95.1914	0.518365	4.290813	3625.936
0.881702	28.80297	34.79681	40.90999	40.00883	0.060905	17958.01	13716.6	0.007705	95.02954	0.497566	4.303726	3616.263
1.024027	28.63594	34.45982	40.82987	39.80188	0.072971	17908.74	16445.28	0.007336	94.91696	0.476845	4.317052	3606.34
0.654588	31.72997	35.96988	41.60509	40.563	0.086205	18173.18	19305.08	0.005062	95.80697	0.464936	4.246459	3659.592
0.665055	31.96904	35.99699	41.71585	40.582	0.097154	18195.59	21750.75	0.004643	95.91838	0.453585	4.240578	3664.105
0.67732	32.2242	36.03165	41.77097	40.635	0.108184	18214.28	24212.84	0.00432	96.00056	0.441438	4.235688	3667.867
0.693682	32.81342	36.27214	41.78446	40.68	0.120609	18224.39	26961.11	0.004225	96.02231	0.43041	4.233046	3669.903

ตารางที่ ค.3 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 40^{\circ}\text{C}$ และ $m_w = 0.29 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr_{water}	De
0.574594	33.81559	37.86752	41.88046	41.33208	0.03445	21412.88	7662.116	0.013297	96.20972	0.502418	4.199483	4311.981
0.713543	33.73122	37.70142	41.91282	41.21094	0.04604	21394.93	10244.05	0.01225	96.15197	0.487187	4.203444	4308.366
0.877797	34.36426	37.83316	41.86414	41.03412	0.058872	21349.35	13084.37	0.012892	96.0236	0.461524	4.213532	4299.188
1.043848	34.49003	37.77155	41.7349	40.83739	0.071753	21283.54	15948.71	0.012972	95.90499	0.444023	4.228182	4285.935
1.148888	34.61039	37.65608	41.60242	40.68256	0.085128	21225.6	18922.66	0.012252	95.77737	0.418935	4.241161	4274.267
1.165873	34.87948	37.74523	41.70961	40.7236	0.098336	21255.48	21851.1	0.011129	95.78593	0.409335	4.234457	4280.285
1.24538	34.84574	37.58965	41.68637	40.62892	0.111019	21231.71	24674.58	0.010449	95.76947	0.390052	4.239789	4275.497
1.135473	35.00268	37.59322	41.8829	40.80923	0.122707	21307.73	27262.83	0.008543	95.88908	0.376653	4.222787	4290.805

ตารางที่ ค.4 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 40^{\circ}\text{C}$ และ $m_w = 0.33 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr_{water}	De
0.744021	28.64186	35.22305	40.77036	40.2053	0.036541	23957.04	8224.511	0.011023	94.91465	0.542622	4.301095	4824.306
0.862233	29.36264	35.26854	40.79882	40.13602	0.049464	23947.69	11121.58	0.00991	95.03301	0.517711	4.302985	4822.423
0.90546	29.64747	35.25236	40.93938	40.16692	0.062472	23986.97	14041.43	0.008355	95.15025	0.503906	4.295057	4830.334
0.902944	29.97366	35.18537	41.01744	40.21585	0.073846	24016.09	16591.46	0.007116	95.28137	0.482713	4.2892	4836.197
0.98549	29.82213	34.99073	41.09205	40.19392	0.08583	24028.17	19291.55	0.006551	95.27651	0.472095	4.286774	4838.631
1.112156	30.33011	35.04034	40.98837	40.04617	0.097804	23970.53	21970.41	0.006795	95.16989	0.451161	4.298372	4827.023
1.134514	30.98692	35.27379	41.00803	40.04344	0.110161	23974.41	24715.96	0.00654	95.16674	0.438176	4.29759	4827.804
0.974656	31.43979	35.44339	41.25827	40.28737	0.120881	24087.77	27100.11	0.005229	95.4017	0.429085	4.274846	4850.632

ตารางที่ ค.5 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 40^{\circ}\text{C}$ และ $m_w = 0.37 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr_{water}	De
0.666412	30.98308	36.3078	41.61321	41.10318	0.03461	27401.94	7740.273	0.011454	95.94274	0.500908	4.221696	5518.018
0.816805	30.81206	36.16434	41.72662	41.12899	0.048377	27438.09	10820.84	0.009874	96.01915	0.495529	4.215444	5525.297
0.847227	30.83361	36.07655	41.87173	41.16562	0.059213	27485.31	13246.41	0.008309	96.06951	0.486376	4.207305	5534.805
1.004038	30.79938	35.80681	41.73671	41.01352	0.072188	27410.73	16158.17	0.008	96.03385	0.463058	4.220175	5519.787
1.012231	30.81401	35.73303	41.88806	41.05567	0.085658	27460.98	19178.75	0.006747	96.10751	0.455499	4.211495	5529.906
1.061303	30.98654	35.66218	41.90288	41.04484	0.098964	27462.02	22155.42	0.006163	96.10851	0.439991	4.211316	5530.115
1.209735	31.17733	35.58832	41.79924	40.91113	0.111686	27400.38	25000.73	0.006341	95.94502	0.422676	4.221966	5517.703
1.409212	31.36891	35.44878	41.5723	40.66451	0.124537	27277.57	27877.64	0.006779	95.73085	0.398258	4.243343	5492.972

ตารางที่ ค.6 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 45^{\circ}\text{C}$ และ $m_w = 0.21 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr_{water}	De
0.760869	32.87567	39.93059	46.749	45.842	0.034503	16661.74	7678.155	0.010165	99.78411	0.508524	3.814826	3355.228
0.924766	33.38133	39.83428	46.709	45.631	0.046328	16625.13	10303.01	0.009489	99.68836	0.482728	3.824247	3347.856
1.013653	33.81335	39.99684	46.768	45.569	0.058924	16624.69	13091.18	0.008488	99.77912	0.478019	3.82436	3347.768
1.139883	34.26096	39.85804	46.732	45.409	0.071929	16596.1	15975.22	0.008012	99.67167	0.448195	3.831751	3342.009
1.239013	34.44875	39.79086	46.843	45.347	0.083758	16603.25	18596.89	0.007564	99.73037	0.434309	3.829901	3343.449
1.319181	35.23322	40.13064	46.87	45.271	0.096307	16596.1	21345.81	0.007537	99.65254	0.425279	3.831751	3342.009
1.442737	35.1694	39.9626	46.895	45.132	0.107394	16579.46	23812.34	0.007365	99.51645	0.413935	3.836063	3338.659
1.507722	35.56361	40.08463	46.963	45.099	0.12048	16584.57	26692.93	0.007112	99.55335	0.40419	3.834738	3339.688

ตารางที่ ค.7 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 45^{\circ}\text{C}$ และ $m_w = 0.25 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr_{water}	De
0.872987	33.87073	40.49048	46.957	46.051	0.037177	20067.03	8248.036	0.011537	100.002	0.505854	3.799279	4040.961
1.010232	33.74328	40.25704	47.049	45.978	0.048945	20070.35	10864.19	0.009995	99.95627	0.492954	3.798574	4041.63
1.184123	33.58505	39.90188	47.002	45.807	0.060738	20032.22	13489.09	0.009273	99.91563	0.472394	3.806682	4033.953
1.397075	33.5041	39.59499	46.924	45.572	0.073016	19977.46	16223.63	0.009043	99.78912	0.452757	3.818386	4022.925
1.59631	33.39173	39.37086	46.916	45.381	0.084476	19942.63	18778.64	0.008891	99.70976	0.440768	3.825866	4015.911
1.715166	33.35503	39.15722	46.974	45.301	0.096865	19938.78	21537.7	0.008267	99.60409	0.426569	3.826695	4015.136
1.853942	33.24602	38.95994	47.061	45.211	0.108698	19938.25	24179.38	0.007892	99.69444	0.41674	3.826808	4015.03
1.881781	33.51939	38.95406	47.142	45.223	0.120881	19954.53	26886.02	0.007296	99.73078	0.404438	3.823307	4018.308

ตารางที่ ค.8 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 45^{\circ}\text{C}$ และ $m_w = 0.29 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr_{water}	De
0.979696	30.62497	39.77378	47.083	46.263	0.034631	23480.46	7725.577	0.01143	100.0354	0.555888	3.786774	4728.335
1.19509	30.855	39.44092	47.103	46.1	0.04652	23451.3	10380.01	0.010382	100.0257	0.529081	3.792054	4722.464
1.187349	33.28068	39.92301	47.255	46.151	0.060392	23492.69	13404.71	0.009024	100.1751	0.481247	3.784563	4730.798
1.449325	33.04299	39.50512	47.141	45.879	0.072777	23413.98	16167.87	0.008984	99.96735	0.460265	3.798834	4714.948
1.546083	33.2606	39.41169	47.207	45.823	0.086083	23416.02	19120.95	0.008177	99.94886	0.445009	3.798463	4715.359
1.751935	32.88073	39.04733	47.22	45.66	0.09807	23385.42	21803.2	0.007926	99.88496	0.434198	3.804037	4709.196
1.896211	33.2938	38.98813	47.127	45.517	0.11078	23337.25	24616.63	0.007793	99.79812	0.412956	3.812843	4699.497
1.951743	33.38086	38.86493	47.246	45.484	0.120909	23354.81	26869.85	0.007348	99.81911	0.400234	3.809629	4703.032

ตารางที่ ค.9 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 45^{\circ}\text{C}$ และ $m_w = 0.33 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr_{water}	De
0.952378	30.12455	38.59561	45.97548	45.27428	0.034659	26345.56	7734.604	0.011268	99.03132	0.53442	3.865726	5305.29
1.191477	30.05549	38.35282	46.11132	45.16258	0.046319	26351.2	10337.34	0.010481	99.07486	0.521189	3.864798	5306.426
1.343865	30.08991	38.06312	46.30091	45.12705	0.059285	26387.2	13235.08	0.009141	99.15252	0.501915	3.858884	5313.676
1.458607	30.05387	37.81288	46.3577	45.09156	0.072276	26392.18	16143.36	0.008044	99.20114	0.487325	3.858068	5314.678
1.548414	30.14393	37.54979	46.41292	45.04791	0.085753	26394.88	19159.23	0.007144	99.21783	0.467791	3.857625	5315.223
1.708868	29.9714	37.22539	46.49022	44.95414	0.099129	26391.03	22164.12	0.006707	99.38177	0.453259	3.858256	5314.448
1.828888	30.16428	37.17213	46.62674	44.90024	0.111872	26410.34	25009.38	0.006422	99.36438	0.44322	3.855093	5318.335
1.955175	30.32314	36.99822	46.6479	44.80072	0.12365	26392.03	27642.32	0.006236	99.426	0.426459	3.858093	5314.648

ตารางที่ ค.10 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 45^{\circ}\text{C}$ และ $m_w = 0.37 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr_{water}	De
1.01429	33.41933	39.52356	46.08	45.333	0.033325	29681.67	7388.98	0.015145	99.42077	0.482141	3.859458	5977.093
1.224819	33.274	39.58146	46.014	45.141	0.045044	29613.84	9989.292	0.013713	99.20136	0.492539	3.869374	5963.434
1.589687	32.56867	38.93252	45.839	44.792	0.055788	29476.02	12391.95	0.013672	98.92581	0.471001	3.889669	5935.682
1.618795	32.66133	38.79999	46.035	44.849	0.06641	29542.57	14751.11	0.011623	99.03155	0.457471	3.879844	5949.082
1.732324	32.715	38.6715	46.067	44.767	0.077658	29529.42	17249.37	0.010653	99.05962	0.445679	3.881782	5946.434
1.911568	33.149	38.75752	46.132	44.655	0.090745	29517.06	20140.98	0.010449	99.00291	0.433727	3.883605	5943.945
2.184492	33.48833	38.83509	46.049	44.399	0.103587	29427.88	22978.35	0.010942	98.81849	0.424627	3.896807	5925.987
2.269465	33.89433	38.75233	46.06	44.318	0.115248	29409.47	25551.32	0.01046	98.78417	0.398665	3.899544	5922.279

ตารางที่ ค.11 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 50^{\circ}\text{C}$ และ $m_w = 0.21 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr _{water}	De
1.214219	32.33567	42.2778	51.6866	50.205	0.036096	17998.73	8003.627	0.011285	102.9104	0.513781	3.498213	3624.463
1.460784	32.34167	41.91574	51.70886	49.924	0.048255	17962.2	10705.71	0.010126	102.8024	0.494914	3.506216	3617.106
1.650309	32.40467	41.5825	51.74675	49.76	0.060189	17944.38	13359.61	0.009131	102.8078	0.475981	3.510133	3613.518
1.80304	32.47367	41.30599	51.85945	49.662	0.07199	17946.46	15984.2	0.008307	102.8244	0.459707	3.509676	3613.936
2.007349	32.60733	41.09093	51.88277	49.459	0.085107	17921.05	18899.72	0.007867	102.8081	0.44465	3.515271	3608.82
2.215174	32.58033	40.86848	52.00755	49.17	0.095661	17897.82	21249.67	0.007749	102.6992	0.433792	3.520403	3604.141
2.248698	32.53067	40.51156	52.08621	49.27	0.107919	17923.09	23986.73	0.006833	102.8372	0.416628	3.51482	3609.231
2.343216	32.70167	40.4003	52.14529	49.189	0.119893	17919.99	26646.44	0.006445	102.8024	0.405513	3.515504	3608.607

ตารางที่ ค.12 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 50^{\circ}\text{C}$ และ $m_w = 0.25 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr _{water}	De
1.360906	29.26867	40.89683	51.75483	50.334	0.036279	21631.87	8097.203	0.010764	103.0965	0.517125	3.49214	4356.079
1.679935	29.181	40.47312	51.71382	50.06318	0.048507	21579.07	10833.54	0.009871	102.9392	0.50023	3.501753	4345.447
1.842813	29.25833	40.08267	51.8094	49.97453	0.060501	21580.24	13519.66	0.008609	102.979	0.481157	3.501538	4345.683
1.91413	30.07967	40.01827	51.84425	49.91566	0.072273	21576.17	16135.39	0.00766	102.9548	0.458525	3.502281	4344.864
2.176114	30.21133	39.70679	51.74516	49.62509	0.085443	21510.1	19082.39	0.0074	102.8254	0.440757	3.514383	4331.557
2.20965	30.63767	39.6693	51.92276	49.68948	0.095966	21551.14	21421.65	0.006754	102.9881	0.427692	3.506856	4339.823
2.381976	30.53433	39.34383	51.93591	49.542	0.108198	21528.36	24168.08	0.006404	102.9441	0.415141	3.51103	4335.236
2.556887	30.097	38.74751	51.83633	49.318	0.120407	21473.43	26934.77	0.00602	102.9115	0.399417	3.52113	4324.175

ตารางที่ ค.13 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 50^{\circ}\text{C}$ และ $m_w = 0.29 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr_{water}	De
1.483405	28.12567	40.38712	51.88164	50.458	0.036348	25286.67	8131.25	0.011062	103.1594	0.516142	3.484452	5092.058
1.82268	27.99767	39.88622	51.79746	50.245	0.048602	25228.02	10880.97	0.010048	103.1263	0.497763	3.493566	5080.248
2.073839	28.136	39.51582	51.72615	50.042	0.060613	25173.83	13575.41	0.009157	102.9965	0.479238	3.502026	5069.335
2.153513	28.539	39.16256	51.84241	50.036	0.072458	25195.62	16229.76	0.007944	103.0743	0.455114	3.49862	5073.723
2.420511	28.555	38.87183	51.83325	49.833	0.085677	25153.68	19198.74	0.007548	103.0713	0.442277	3.505181	5065.278
2.50281	28.95533	38.73758	51.88232	49.788	0.096233	25154.49	21556.92	0.007006	103.0286	0.426682	3.505055	5065.44
2.66675	29.151	38.61834	51.92362	49.686	0.10852	25142.48	24307.91	0.006663	103.0967	0.416501	3.506937	5063.023
2.747738	29.54733	38.57608	51.91849	49.614	0.120516	25127.23	26984.8	0.006261	103.1297	0.404255	3.509332	5059.95

ตารางที่ ค.14 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 50^{\circ}\text{C}$ และ $m_w = 0.33 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr_{water}	De
1.490219	33.558	42.97869	51.91661	50.657	0.034775	28951.76	7670.504	0.015211	103.2726	0.513149	3.477314	5830.109
1.711864	33.60467	42.76577	52.00895	50.632	0.048461	28966.92	10692.02	0.012494	103.3106	0.50028	3.475266	5833.162
1.884891	33.52367	42.39368	52.022	50.526	0.060079	28945.99	13265.54	0.010942	103.2693	0.482251	3.478094	5828.947
2.114256	33.69233	42.22978	51.973	50.348	0.071847	28894.85	15865.01	0.010353	103.1672	0.468466	3.485022	5818.648
2.303321	33.774	41.98925	51.995	50.234	0.084945	28874.11	18761.8	0.009533	103.1419	0.452815	3.487838	5814.472
2.457587	33.91567	41.75579	51.967	50.126	0.095453	28843.43	21085.16	0.00906	103.1505	0.43554	3.492012	5808.295
2.619264	34.147	41.72	52.041	50.056	0.107634	28844.33	23771.4	0.008671	103.1091	0.426177	3.491889	5808.476
2.84195	34.429	41.62743	51.879	49.825	0.119556	28755.6	26398.18	0.008636	102.9224	0.41163	3.504012	5790.608

ตารางที่ ค.15 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 50^{\circ}\text{C}$ และ $m_w = 0.37 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr_{water}	De
1.579531	33.61733	42.92827	51.739	50.486	0.034771	32482.35	7669.314	0.016393	102.9976	0.513801	3.487961	6541.076
1.902318	33.36467	42.56172	51.735	50.389	0.04848	32456.73	10703.64	0.013922	102.9406	0.500538	3.49106	6535.916
1.938225	33.219	42.28785	52	50.517	0.060465	32556.39	13357.35	0.011123	103.2698	0.489679	3.479038	6555.984
2.123946	32.97433	41.84508	52.006	50.413	0.072674	32531.55	16070.87	0.009919	103.2313	0.472737	3.482027	6550.983
2.49007	32.71433	41.31948	51.821	50.087	0.085092	32401.89	18837.01	0.009787	103.0467	0.452315	3.497707	6524.872
2.606331	32.85733	41.17491	51.987	50.093	0.095618	32445.56	21168.68	0.009119	103.0432	0.440511	3.492411	6533.667
2.894302	33.025	40.98433	51.856	49.859	0.107831	32352.85	23872.24	0.009079	103.0094	0.425314	3.503671	6514.997
2.983683	33.092	40.91461	52.071	49.922	0.119817	32423.47	26527.04	0.008413	103.053	0.41951	3.495088	6529.219

ตารางที่ ค.16 แสดงผลการคำนวณจากแบบจำลองทางคณิตศาสตร์ภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 40^{\circ}\text{C}$ และ $m_w = 0.21 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr_{water}	De
0.765018	31.64963	38.57831	41.57301	40.40735	0.034573	15207.5	7719.082	90.15159	0.698218	0.513781	3.498213	3624.463
0.894681	32.33497	37.98651	41.57301	40.25181	0.048144	15181.32	10739.66	90.0374	0.611768	0.494914	3.506216	3617.106
0.920537	33.19434	37.91452	41.57301	40.21985	0.05912	15142.93	13168.76	89.86993	0.563356	0.475981	3.510133	3613.518
0.990738	33.73381	37.78844	41.57301	40.13843	0.073062	15225.61	16264.14	90.23057	0.517225	0.459707	3.509676	3613.936
1.018076	34.29064	37.82928	41.57301	40.11636	0.08511	15140.86	18928.33	89.86088	0.485919	0.44465	3.515271	3608.82
1.037716	34.70442	37.87892	41.57301	40.09735	0.096195	15164.14	21378.87	89.96247	0.462176	0.433792	3.520403	3604.141
1.098151	34.77488	37.77476	41.57301	40.01536	0.107549	15141.28	23904.28	89.86274	0.44128	0.416628	3.51482	3609.231
1.049236	35.6172	38.11408	41.57301	40.1067	0.121757	15145.17	27016.99	89.8797	0.419234	0.405513	3.515504	3608.607

ตารางที่ ค.17 แสดงผลการคำนวณจากแบบจำลองทางคณิตศาสตร์ภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 40^{\circ}\text{C}$ และ $m_w = 0.25 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr_{water}	De
0.921124	28.94372	37.23352	40.8493	39.67509	0.034922	17990.3	7864.551	103.215	0.696296	0.517125	3.49214	4356.079
1.126837	29.06564	36.30797	40.8493	39.44667	0.047838	18006.05	10763.62	103.2814	0.614607	0.50023	3.501753	4345.447
1.326068	28.80297	35.52067	40.8493	39.19551	0.060905	17958.01	13716.6	103.0789	0.557655	0.481157	3.501538	4345.683
1.466598	28.63594	34.96512	40.8493	38.98481	0.072971	17908.74	16445.28	102.8711	0.518218	0.458525	3.502281	4344.864
1.312812	31.72997	36.15894	40.8493	39.30883	0.086205	18173.18	19305.08	103.985	0.485668	0.440757	3.514383	4331.557
1.364225	31.96904	36.07714	40.8493	39.24021	0.097154	18195.59	21750.75	104.0793	0.46261	0.427692	3.506856	4339.823
1.429116	32.2242	36.0428	40.8493	39.18499	0.108184	18214.28	24212.84	104.1579	0.442731	0.415141	3.51103	4335.236
1.458494	32.81342	36.21666	40.8493	39.19692	0.120609	18224.39	26961.11	104.2004	0.423505	0.399417	3.52113	4324.175

ตารางที่ ค.18 แสดงผลการคำนวณจากแบบจำลองทางคณิตศาสตร์ภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 40^{\circ}\text{C}$ และ $m_w = 0.29 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr_{water}	De
0.684908	33.81559	39.50286	41.88046	41.19837	0.03445	21412.88	7662.116	120.3713	0.70519	0.516142	3.484452	5092.058
0.832207	33.73122	38.85487	41.88046	41.06059	0.04604	21394.93	10244.05	120.297	0.628727	0.497763	3.493566	5080.248
0.920822	34.36426	38.65074	41.88046	41.00464	0.058872	21349.35	13084.37	120.1083	0.570299	0.479238	3.502026	5069.335
1.021693	34.49003	38.38354	41.88046	40.91207	0.071753	21283.54	15948.71	119.8358	0.526831	0.455114	3.49862	5073.723
1.085298	34.61039	38.18529	41.88046	40.82675	0.085128	21225.6	18922.66	119.5958	0.491729	0.442277	3.505181	5065.278
1.154125	34.87948	38.12746	41.88046	40.77555	0.098336	21255.48	21851.1	119.7196	0.463932	0.426682	3.505055	5065.44
1.230298	34.84574	37.9516	41.88046	40.68862	0.111019	21231.71	24674.58	119.6211	0.441504	0.416501	3.506937	5063.023
1.255736	35.00268	37.91794	41.88046	40.6447	0.122707	21307.73	27262.83	119.936	0.423866	0.404255	3.509332	5059.95

ตารางที่ ค.19 แสดงผลการคำนวณจากแบบจำลองทางคณิตศาสตร์ภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 40^{\circ}\text{C}$ และ $m_w = 0.33 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr _{water}	De
1.027979	28.64186	36.98114	40.77036	39.84275	0.036541	23957.04	8224.511	131.1988	0.687577	0.513149	3.477314	5830.109
1.174375	29.36264	36.32536	40.77036	39.72364	0.049464	23947.69	11121.58	131.1612	0.610351	0.50028	3.475266	5833.162
1.318315	29.64747	35.83583	40.77036	39.59682	0.062472	23986.97	14041.43	131.3192	0.556363	0.482251	3.478094	5828.947
1.405007	29.97366	35.59312	40.77036	39.51183	0.073846	24016.09	16591.46	131.4363	0.520479	0.468466	3.485022	5818.648
1.559655	29.82213	35.18554	40.77036	39.37544	0.08583	24028.17	19291.55	131.4848	0.489889	0.452815	3.487838	5814.472
1.612086	30.33011	35.18359	40.77036	39.33313	0.097804	23970.53	21970.41	131.253	0.464881	0.43554	3.492012	5808.295
1.633653	30.98692	35.3231	40.77036	39.32508	0.110161	23974.41	24715.96	131.2686	0.443216	0.426177	3.491889	5808.476
1.646003	31.43979	35.424	40.77036	39.31382	0.120881	24087.77	27100.11	131.7244	0.427006	0.41163	3.504012	5790.608

ตารางที่ ค.20 แสดงผลการคำนวณจากแบบจำลองทางคณิตศาสตร์ภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 40^{\circ}\text{C}$ และ $m_w = 0.37 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr _{water}	De
0.85529	30.98308	38.47588	41.61321	40.91071	0.03461	27401.94	7740.273	147.8659	0.704864	0.513801	3.487961	6541.076
1.152435	30.81206	37.48514	41.61321	40.7402	0.048377	27438.09	10820.84	148.0093	0.617812	0.500538	3.49106	6535.916
1.291777	30.83361	36.982	41.61321	40.62967	0.059213	27485.31	13246.41	148.1967	0.570373	0.489679	3.479038	6555.984
1.427054	30.79938	36.4994	41.61321	40.50283	0.072188	27410.73	16158.17	147.9007	0.527104	0.472737	3.482027	6550.983
1.550933	30.81401	36.1308	41.61321	40.3853	0.085658	27460.98	19178.75	148.1002	0.492331	0.452315	3.497707	6524.872
1.656133	30.98654	35.92432	41.61321	40.29675	0.098964	27462.02	22155.42	148.1043	0.464659	0.440511	3.492411	6533.667
1.755338	31.17733	35.79598	41.61321	40.22457	0.111686	27400.38	25000.73	147.8596	0.442574	0.425314	3.503671	6514.997
1.818148	31.36891	35.70707	41.61321	40.15991	0.124537	27277.57	27877.64	147.3719	0.423471	0.41951	3.495088	6529.219

ตารางที่ ค.21 แสดงผลการคำนวณจากแบบจำลองทางคณิตศาสตร์ภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 45^{\circ}\text{C}$ และ $m_w = 0.21 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr _{water}	De
1.125775	32.87567	42.62892	46.749	45.10766	0.034503	16661.74	7678.155	101.2778	0.703022	0.513781	3.498213	3624.463
1.301418	33.38133	41.74077	46.749	44.86364	0.046328	16625.13	10303.01	101.1129	0.625348	0.494914	3.506216	3617.106
1.447719	33.81335	41.16087	46.749	44.64456	0.058924	16624.69	13091.18	101.1109	0.568005	0.475981	3.510133	3613.518
1.582701	34.26096	40.8062	46.749	44.46377	0.071929	16596.1	15975.22	100.982	0.524121	0.459707	3.509676	3613.936
1.726768	34.44875	40.50896	46.749	44.28776	0.083758	16603.25	18596.89	101.0143	0.49269	0.44465	3.515271	3608.82
1.783409	35.23322	40.59484	46.749	44.24775	0.096307	16596.1	21345.81	100.982	0.465589	0.433792	3.520403	3604.141
1.920655	35.1694	40.32396	46.749	44.06985	0.107394	16579.46	23812.34	100.907	0.445142	0.416628	3.51482	3609.231
2.003343	35.56361	40.31295	46.749	43.9821	0.12048	16584.57	26692.93	100.9301	0.424602	0.405513	3.515504	3608.607

ตารางที่ ค.22 แสดงผลการคำนวณจากแบบจำลองทางคณิตศาสตร์ภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 45^{\circ}\text{C}$ และ $m_w = 0.25 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr _{water}	De
1.151271	33.87073	42.84	46.957	45.6011	0.037177	20067.03	8248.036	118.5666	0.685395	0.517125	3.49214	4356.079
1.379406	33.74328	41.86375	46.957	45.34345	0.048945	20070.35	10864.19	118.5812	0.614549	0.50023	3.501753	4345.447
1.587908	33.58505	41.12245	46.957	45.10098	0.060738	20032.22	13489.09	118.4142	0.563672	0.481157	3.501538	4345.683
1.793623	33.5041	40.5454	46.957	44.87521	0.073016	19977.46	16223.63	118.1743	0.523404	0.458525	3.502281	4344.864
1.995577	33.39173	40.08505	46.957	44.66981	0.084476	19942.63	18778.64	118.0216	0.493416	0.440757	3.514383	4331.557
2.171547	33.35503	39.70338	46.957	44.47185	0.096865	19938.78	21537.7	118.0047	0.466723	0.427692	3.506856	4339.823
2.358925	33.24602	39.35101	46.957	44.27733	0.108698	19938.25	24179.38	118.0024	0.445263	0.415141	3.51103	4335.236
2.44907	33.51939	39.24961	46.957	44.16192	0.120881	19954.53	26886.02	118.0738	0.426432	0.399417	3.52113	4324.175

ตารางที่ ค.23 แสดงผลการคำนวณจากแบบจำลองทางคณิตศาสตร์ภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 45^{\circ}\text{C}$ และ $m_w = 0.29 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr _{water}	De
1.37524	30.62497	42.23162	47.083	45.68096	0.034631	23480.46	7725.577	135.3135	0.705227	0.516142	3.484452	5092.058
1.636621	30.855	41.0431	47.083	45.4325	0.04652	23451.3	10380.01	135.189	0.62781	0.497763	3.493566	5080.248
1.65366	33.28068	41.10362	47.083	45.43985	0.060392	23492.69	13404.71	135.3658	0.566784	0.479238	3.502026	5069.335
1.884319	33.04299	40.4272	47.083	45.21615	0.072777	23413.98	16167.87	135.0295	0.525941	0.455114	3.49862	5073.723
2.040018	33.2606	40.05767	47.083	45.05241	0.086083	23416.02	19120.95	135.0383	0.491744	0.442277	3.505181	5065.278
2.275712	32.88073	39.5045	47.083	44.8306	0.09807	23385.42	21803.2	134.9075	0.466388	0.426682	3.505055	5065.44
2.393921	33.2938	39.41636	47.083	44.73312	0.11078	23337.25	24616.63	134.7015	0.444011	0.416501	3.506937	5063.023
2.494639	33.38086	39.25261	47.083	44.62468	0.120909	23354.81	26869.85	134.7766	0.428528	0.404255	3.509332	5059.95

ตารางที่ ค.24 แสดงผลการคำนวณจากแบบจำลองทางคณิตศาสตร์ภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 45^{\circ}\text{C}$ และ $m_w = 0.33 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr _{water}	De
1.333325	30.12455	41.30051	45.97548	44.79336	0.034659	26345.56	7734.604	147.9345	0.705067	0.513149	3.477314	5830.109
1.647406	30.05549	40.06931	45.97548	44.56212	0.046319	26351.2	10337.34	147.9579	0.629009	0.50028	3.475266	5833.162
1.920324	30.08991	39.15267	45.97548	44.34036	0.059285	26387.2	13235.08	148.1076	0.570503	0.482251	3.478094	5828.947
2.145155	30.05387	38.44879	45.97548	44.13095	0.072276	26392.18	16143.36	148.1283	0.527265	0.468466	3.485022	5818.648
2.326479	30.14393	37.94018	45.97548	43.94502	0.085753	26394.88	19159.23	148.1395	0.49245	0.452815	3.487838	5814.472
2.556024	29.9714	37.40577	45.97548	43.73916	0.099129	26391.03	22164.12	148.1235	0.46453	0.43554	3.492012	5808.295
2.723382	30.16428	37.16072	45.97548	43.60199	0.111872	26410.34	25009.38	148.2038	0.442499	0.426177	3.491889	5808.476
2.862196	30.32314	36.97453	45.97548	43.48307	0.12365	26392.03	27642.32	148.1277	0.424945	0.41163	3.504012	5790.608

ตารางที่ ค.25 แสดงผลการคำนวณจากแบบจำลองทางคณิตศาสตร์ภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 45^{\circ}\text{C}$ และ $m_w = 0.37 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr_{water}	De
1.125957	33.41933	42.51656	46.08	45.25697	0.033325	29681.67	7388.98	163.6644	0.718543	0.513801	3.487961	6541.076
1.315292	33.274	41.45133	46.08	45.08163	0.045044	29613.84	9989.292	163.3874	0.638554	0.500538	3.49106	6535.916
1.564832	32.56867	40.49315	46.08	44.88322	0.055788	29476.02	12391.95	162.8241	0.586506	0.489679	3.479038	6555.984
1.729814	32.66133	40.00765	46.08	44.76041	0.06641	29542.57	14751.11	163.0962	0.54747	0.472737	3.482027	6550.983
1.870902	32.715	39.59096	46.08	44.63691	0.077658	29529.42	17249.37	163.0424	0.514475	0.452315	3.497707	6524.872
2.025851	33.149	39.40305	46.08	44.54752	0.090745	29517.06	20140.98	162.9919	0.483648	0.440511	3.492411	6533.667
2.156438	33.48833	39.26504	46.08	44.46543	0.103587	29427.88	22978.35	162.6272	0.458772	0.425314	3.503671	6514.997
2.224317	33.89433	39.25113	46.08	44.41527	0.115248	29409.47	25551.32	162.5519	0.439598	0.41951	3.495088	6529.219

ตารางที่ ค.26 แสดงผลการคำนวณจากแบบจำลองทางคณิตศาสตร์ภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 50^{\circ}\text{C}$ และ $m_w = 0.21 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr_{water}	De
1.659353	32.33567	45.74007	51.6866	49.32249	0.036096	17998.73	8003.627	111.8279	0.6927	0.513781	3.498213	3624.463
1.971162	32.34167	44.28211	51.6866	48.8765	0.048255	17962.2	10705.71	111.6599	0.617239	0.494914	3.506216	3617.106
2.249306	32.40467	43.29935	51.6866	48.49314	0.060189	17944.38	13359.61	111.5779	0.56502	0.475981	3.510133	3613.518
2.501424	32.47367	42.57478	51.6866	48.1494	0.07199	17946.46	15984.2	111.5874	0.525746	0.459707	3.509676	3613.936
2.756024	32.60733	41.98128	51.6866	47.81054	0.085107	17921.05	18899.72	111.4705	0.491316	0.44465	3.515271	3608.82
2.953498	32.58033	41.5305	51.6866	47.53051	0.095661	17897.82	21249.67	111.3635	0.468441	0.433792	3.520403	3604.141
3.163791	32.53067	41.07195	51.6866	47.21597	0.107919	17923.09	23986.73	111.4799	0.445882	0.416628	3.51482	3609.231
3.32082	32.70167	40.80947	51.6866	46.97575	0.119893	17919.99	26646.44	111.4656	0.427065	0.405513	3.515504	3608.607

ตารางที่ ค.27 แสดงผลการคำนวณจากแบบจำลองทางคณิตศาสตร์ภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 50^{\circ}\text{C}$ และ $m_w = 0.25 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr _{water}	De
1.889212	29.26867	44.83002	51.75483	49.45499	0.036279	21631.87	8097.203	130.5426	0.692041	0.517125	3.49214	4356.079
2.291491	29.181	43.10705	51.75483	49.00773	0.048507	21579.07	10833.54	130.3067	0.616911	0.50023	3.501753	4345.447
2.595638	29.25833	41.96948	51.75483	48.63142	0.060501	21580.24	13519.66	130.312	0.565028	0.481157	3.501538	4345.683
2.747723	30.07967	41.49244	51.75483	48.40823	0.072273	21576.17	16135.39	130.2938	0.526537	0.458525	3.502281	4344.864
3.021713	30.21133	40.8165	51.75483	48.08258	0.085443	21510.1	19082.39	129.9983	0.492267	0.440757	3.514383	4331.557
3.178621	30.63767	40.56008	51.75483	47.89841	0.095966	21551.14	21421.65	130.1819	0.469874	0.427692	3.506856	4339.823
3.424521	30.53433	40.03066	51.75483	47.5971	0.108198	21528.36	24168.08	130.0801	0.447507	0.415141	3.51103	4335.236
3.668671	30.097	39.37145	51.75483	47.23983	0.120407	21473.43	26934.77	129.8343	0.428226	0.399417	3.52113	4324.175

ตารางที่ ค.28 แสดงผลการคำนวณจากแบบจำลองทางคณิตศาสตร์ภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 50^{\circ}\text{C}$ และ $m_w = 0.29 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re,water	Re,air	j	Nu	ϵ_{dry}	Pr _{water}	De
1.963715	28.12567	44.57826	51.88164	49.79252	0.036348	25286.67	8131.25	148.8564	0.692566	0.516142	3.484452	5092.058
2.415485	27.99767	42.7483	51.88164	49.38125	0.048602	25228.02	10880.97	148.601	0.617596	0.497763	3.493566	5080.248
2.739622	28.136	41.57354	51.88164	49.04449	0.060613	25173.83	13575.41	148.3647	0.565895	0.479238	3.502026	5069.335
2.974287	28.539	40.84562	51.88164	48.7785	0.072458	25195.62	16229.76	148.4597	0.527216	0.455114	3.49862	5073.723
3.302473	28.555	40.05585	51.88164	48.45612	0.085677	25153.68	19198.74	148.2769	0.493035	0.442277	3.505181	5065.278
3.46504	28.95533	39.74627	51.88164	48.27399	0.096233	25154.49	21556.92	148.2804	0.470679	0.426682	3.505055	5065.44
3.69837	29.151	39.34563	51.88164	48.04104	0.10852	25142.48	24307.91	148.228	0.448497	0.416501	3.506937	5063.023
3.836166	29.54733	39.15108	51.88164	47.86634	0.120516	25127.23	26984.8	148.1614	0.43	0.404255	3.509332	5059.95

ตารางที่ ค.29 แสดงผลการคำนวณจากแบบจำลองทางคณิตศาสตร์ภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 50^{\circ}\text{C}$ และ $m_w = 0.33 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{water}	Re_{air}	j	Nu	ϵ_{dry}	Pr_{water}	De
1.641547	33.558	46.56049	51.91661	50.5331	0.034775	28951.76	7670.504	166.9012	0.70825	0.513149	3.477314	5830.109
2.045082	33.60467	44.99253	51.91661	50.23084	0.048461	28966.92	10692.02	166.9658	0.621882	0.50028	3.475266	5833.162
2.305505	33.52367	44.03172	51.91661	49.99038	0.060079	28945.99	13265.54	166.8766	0.571309	0.482251	3.478094	5828.947
2.540853	33.69233	43.39278	51.91661	49.79223	0.071847	28894.85	15865.01	166.6585	0.532281	0.468466	3.485022	5818.648
2.790469	33.774	42.8087	51.91661	49.57948	0.084945	28874.11	18761.8	166.57	0.497982	0.452815	3.487838	5814.472
2.971842	33.91567	42.47198	51.91661	49.43113	0.095453	28843.43	21085.16	166.439	0.475326	0.43554	3.492012	5808.295
3.179582	34.147	42.19812	51.91661	49.2812	0.107634	28844.33	23771.4	166.4429	0.453083	0.426177	3.491889	5808.476
3.327074	34.429	42.02543	51.91661	49.15654	0.119556	28755.6	26398.18	166.0639	0.434389	0.41163	3.504012	5790.608

ตารางที่ ค.30 แสดงผลการคำนวณจากแบบจำลองทางคณิตศาสตร์ภายใต้สภาวะผิวแห้ง ที่ $T_{w,in} = 50^{\circ}\text{C}$ และ $m_w = 0.37 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{water}	Re_{air}	j	Nu	ϵ_{dry}	Pr_{water}	De
1.616	33.61733	46.46949	51.739	50.52327	0.034771	32482.35	7669.314	183.6428	0.709215	0.513801	3.487961	6541.076
2.081056	33.36467	44.80567	51.739	50.23261	0.04848	32456.73	10703.64	183.5357	0.622662	0.500538	3.49106	6535.916
2.382847	33.219	43.79059	51.739	50.00476	0.060465	32556.39	13357.35	183.9523	0.57082	0.489679	3.479038	6555.984
2.657766	32.97433	42.93275	51.739	49.77738	0.072674	32531.55	16070.87	183.8485	0.5307	0.472737	3.482027	6550.983
2.941699	32.71433	42.19491	51.739	49.55447	0.085092	32401.89	18837.01	183.3062	0.498331	0.452315	3.497707	6524.872
3.165444	32.85733	41.84112	51.739	49.41422	0.095618	32445.56	21168.68	183.4889	0.475794	0.440511	3.492411	6533.667
3.384919	33.025	41.51184	51.739	49.26408	0.107831	32352.85	23872.24	183.1008	0.453502	0.425314	3.503671	6514.997
3.627964	33.092	41.20012	51.739	49.11307	0.119817	32423.47	26527.04	183.3965	0.434822	0.41951	3.495088	6529.219

ตารางที่ ค.31 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 40^{\circ}\text{C}$, $T_{w,in} = 10^{\circ}\text{C}$ และ $m_w = 0.21 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
1.825346	40.50457	24.11218	10.18687	12.33181	0.035088	10194.34	0.003785	69.66449	0.622448	0.616333	8.971754	1112.299
2.448512	40.36028	23.63628	10.04609	12.94601	0.047669	13861.89	0.003809	69.74499	0.632655	0.615472	8.906254	1117.295
2.789228	40.23604	24.33351	10.18201	13.48715	0.059138	17181	0.00344	70.05899	0.596942	0.569855	8.813815	1125.836
3.12218	40.0969	25.06969	10.13833	13.96976	0.071525	20762.35	0.003151	70.18292	0.554058	0.514638	8.754657	1130.828
3.520405	40.10753	25.27326	10.05631	14.37235	0.085782	24892.64	0.002954	70.27568	0.53399	0.483315	8.711831	1134.499
3.768231	40.00656	26.03586	10.05553	14.71935	0.10234	29675.82	0.002668	70.38923	0.496972	0.437848	8.665936	1138.56
4.163274	40.54037	26.17934	10.09726	15.01173	0.110824	32112.17	0.002767	70.50263	0.534464	0.489673	8.621995	1142.528
4.287606	40.43974	27.17076	10.06191	15.38314	0.122001	35305.78	0.002549	70.65874	0.485029	0.432867	8.578142	1146.799

ตารางที่ ค.32 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 40^{\circ}\text{C}$, $T_{w,in} = 10^{\circ}\text{C}$ และ $m_w = 0.25 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
1.659252	40.3767	23.60312	10.24181	11.7798	0.033914	9864.656	0.003664	81.20089	0.630807	0.622964	9.0413	1312.319
2.380588	40.62135	23.61277	10.0388	12.18975	0.050631	14717.14	0.003399	81.23675	0.615941	0.594219	9.01225	1314.878
2.734662	40.16977	23.88191	10.05276	12.54545	0.062815	18266.08	0.003201	81.38481	0.596217	0.567223	8.960701	1320.043
3.039107	40.26884	24.40765	10.31207	13.0493	0.074351	21599.07	0.002972	81.80827	0.573098	0.53662	8.855658	1331.56
3.386335	40.1801	24.62715	10.20707	13.37152	0.085794	24922.88	0.002901	81.86975	0.557297	0.511918	8.826096	1334.432
3.689514	40.64847	25.55469	10.2367	13.72853	0.098167	28458.39	0.002678	82.05403	0.52413	0.472327	8.773845	1340.074
4.04068	40.63361	25.97516	10.17542	13.89916	0.109301	31671.23	0.002645	82.09351	0.531159	0.491201	8.759152	1341.588
4.287413	40.0219	25.77656	10.23542	14.21064	0.122003	35397.7	0.002601	82.28705	0.526867	0.481802	8.709516	1347.141

ตารางที่ ค.33 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 40^{\circ}\text{C}$, $T_{w,in} = 10^{\circ}\text{C}$ และ $m_w = 0.29 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
1.789722	40.51	23.39996	10.02941	11.42758	0.036286	10553.79	0.003609	92.46865	0.629297	0.619104	9.121264	1507.777
2.329832	40.68675	23.37805	10.10888	11.95586	0.044676	12988.36	0.003788	92.77645	0.648187	0.639659	9.035234	1517.818
2.707261	40.0712	24.07739	10.34903	12.48199	0.059148	17202.35	0.003483	93.23506	0.62366	0.614935	8.92846	1531.005
3.041071	40.07434	24.23783	10.19832	12.66189	0.071606	20813.77	0.003093	93.17596	0.570539	0.533761	8.92443	1530.962
3.541037	40.48177	24.55434	10.17967	12.90545	0.085863	24933.83	0.002996	93.29069	0.580233	0.548306	8.893468	1534.708
4.004714	40.34062	25.04904	10.18672	13.2683	0.102483	29751.93	0.002886	93.44286	0.571423	0.541337	8.842895	1540.618
4.252586	40.70282	25.65585	10.25743	13.53881	0.110892	32150.62	0.002805	93.70141	0.56052	0.531584	8.796625	1546.902
4.26593	40.0798	26.00236	10.29079	13.83051	0.122207	35445.15	0.002564	93.90159	0.503603	0.452238	8.752886	1552.564

ตารางที่ ค.34 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 40^{\circ}\text{C}$, $T_{w,in} = 10^{\circ}\text{C}$ และ $m_w = 0.33 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
1.827296	40.39492	23.31485	10.02989	11.31705	0.036301	10561.81	0.003712	103.7907	0.628181	0.617953	9.136971	1708.281
2.187423	40.73854	23.75759	10.21579	11.76722	0.044659	12977.34	0.003537	104.176	0.610803	0.59149	9.046733	1720.386
2.657014	40.16766	24.00946	10.16063	12.0757	0.05917	17203.62	0.003274	104.2577	0.581132	0.550623	9.011161	1724.714
3.046384	40.11794	23.99735	10.1751	12.34423	0.071654	20835.63	0.003117	104.4434	0.570296	0.530281	8.971664	1730.218
3.622996	40.4432	24.48993	10.17456	12.67712	0.085894	24944.14	0.00303	104.6159	0.573665	0.539475	8.925607	1736.379
4.027942	40.72242	25.0568	10.15932	12.91024	0.102508	29738.78	0.002822	104.707	0.554264	0.514762	8.895605	1740.266
4.412523	40.80019	25.29121	10.29375	13.29229	0.110989	32186.69	0.002884	105.1186	0.566247	0.534208	8.825085	1750.872
4.707578	40.89788	25.90713	10.28263	13.41994	0.122258	35414.43	0.002728	105.1576	0.551826	0.523199	8.809291	1752.89

ตารางที่ ค.35 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 40^{\circ}\text{C}$, $T_{w,in} = 10^{\circ}\text{C}$ และ $m_w = 0.37 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
1.80577	40.6509	23.20466	10.06552	11.18222	0.036307	10562.87	0.003693	114.859	0.629743	0.617426	9.151163	1906.803
2.311863	40.10866	22.95157	10.07634	11.58679	0.04472	13024.37	0.003905	115.1167	0.63677	0.62158	9.091949	1915.507
2.83287	40.4976	23.44051	10.0741	11.85321	0.059227	17224.82	0.003489	115.1929	0.612516	0.586801	9.054583	1920.438
3.241041	40.45207	23.7361	10.23329	12.25872	0.071686	20841.01	0.003307	115.623	0.596214	0.563387	8.975466	1932.869
3.688581	40.14013	24.23485	10.10939	12.40121	0.085931	24985.38	0.003223	115.5246	0.595348	0.571237	8.972879	1932.497
4.188218	40.61428	24.96539	10.12518	12.60792	0.102524	29753.42	0.002954	115.7028	0.578496	0.554494	8.942	1937.464
4.325719	40.47324	25.34914	10.09647	12.81112	0.110978	32199.77	0.002825	115.8056	0.545492	0.50892	8.917894	1941.1
4.483668	40.48249	25.73354	10.17556	13.02155	0.122294	35462.66	0.002476	115.9841	0.518361	0.470931	8.878111	1947.203

ตารางที่ ค.36 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 40^{\circ}\text{C}$, $T_{w,in} = 12.5^{\circ}\text{C}$ และ $m_w = 0.21 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
1.497534	40.2726	26.28471	12.51256	14.13011	0.033974	9852.273	0.003683	71.76874	0.648778	0.68156	8.42463	1166.016
1.991499	40.66816	26.30771	12.52859	14.6081	0.050143	14526.89	0.003161	71.95815	0.608428	0.608552	8.362549	1172.063
2.447559	40.41233	26.4027	12.5539	15.08792	0.062566	18128.94	0.003137	72.22266	0.610668	0.612739	8.29981	1178.765
2.805293	40.52711	26.92449	12.47724	15.43921	0.075615	21887.92	0.002905	72.28663	0.57969	0.571275	8.266011	1181.848
3.058808	40.62668	27.16821	12.53466	15.82193	0.088058	25477	0.002708	72.48899	0.55222	0.527791	8.212293	1187.499
3.223914	40.5603	27.59254	12.50727	15.98197	0.100956	29198.31	0.002503	72.56926	0.525096	0.493335	8.196212	1189.335
3.556164	40.79485	28.06316	12.55614	16.4027	0.11283	32598.25	0.002448	72.75073	0.517958	0.486984	8.139683	1195.141
3.681531	40.54306	28.18417	12.54672	16.50565	0.124598	36007.65	0.002466	72.78603	0.502213	0.466255	8.128498	1196.29

ตารางที่ ค.37 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 40^{\circ}\text{C}$, $T_{w,in} = 12.5^{\circ}\text{C}$ และ $m_w = 0.25 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
1.486814	40.00305	24.07101	12.50774	13.81689	0.034485	10030.19	0.003568	83.82935	0.635494	0.620354	8.464979	1379.329
1.961762	39.66605	24.11658	12.50108	14.19691	0.050575	14720.42	0.003326	84.01163	0.622365	0.597302	8.417643	1384.878
2.407254	39.84579	24.49052	12.46075	14.56371	0.062734	18246.04	0.003284	84.16843	0.620083	0.595456	8.37659	1389.722
2.807327	39.57354	24.61266	12.51612	14.9694	0.074305	21620.84	0.003353	84.40955	0.634188	0.61766	8.319144	1396.715
3.089858	39.45229	24.80468	12.50911	15.16908	0.085746	24949.48	0.003229	84.49338	0.62753	0.610237	8.295321	1399.519
3.375777	39.14442	25.21905	12.44035	15.41793	0.098197	28569.11	0.00308	84.52348	0.608775	0.588761	8.273152	1401.802
3.648484	39.33477	25.54119	12.53546	15.67831	0.109351	31785.78	0.002923	84.67489	0.598299	0.574271	8.229663	1406.962
3.677945	38.84567	26.00387	12.5767	15.94131	0.121925	35440.12	0.002476	84.85763	0.53916	0.493828	8.192731	1411.744

ตารางที่ ค.38 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 40^{\circ}\text{C}$, $T_{w,in} = 12.5^{\circ}\text{C}$ และ $m_w = 0.29 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
1.531555	40.92618	26.03124	12.50881	13.71367	0.03439	9958.278	0.003334	95.62424	0.597364	0.593197	8.478002	1592.467
2.105189	40.53644	25.88573	12.51287	14.11073	0.050994	14778.91	0.003166	95.81387	0.59641	0.587189	8.427041	1599.146
2.479118	40.34693	25.99709	12.50784	14.38531	0.063264	18339.96	0.003062	95.87757	0.591388	0.578923	8.393064	1603.193
2.885971	40.27354	26.40648	12.52531	14.73125	0.075316	21827.29	0.00304	96.06961	0.590507	0.583386	8.347594	1609.402
3.105835	40.23379	26.60748	12.52254	14.90507	0.088684	25689.71	0.002701	96.19394	0.54684	0.517838	8.326325	1612.553
3.522397	40.36472	26.592	12.5433	15.17861	0.101057	29273.6	0.002743	96.35095	0.565452	0.540987	8.289931	1617.606
3.700567	40.21089	27.08362	12.56155	15.44749	0.113377	32829.84	0.002575	96.34386	0.531953	0.497866	8.254664	1621.406
4.069131	40.53714	27.30026	12.52748	15.54733	0.123401	35707.99	0.002471	96.36496	0.553954	0.533063	8.246619	1622.444

ตารางที่ ค.39 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 40^{\circ}\text{C}$, $T_{w,in} = 12.5^{\circ}\text{C}$ และ $m_w = 0.33 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
1.53721	40.33343	25.33912	12.51284	13.51071	0.035804	10388.82	0.003369	107.0754	0.623082	0.623615	8.503453	1801.359
2.067953	39.91125	25.12464	12.53502	13.91077	0.050516	14672.3	0.003291	107.3441	0.613228	0.602341	8.449572	1809.661
2.45227	39.62327	25.27107	12.5069	14.11447	0.063014	18308.54	0.003185	107.3786	0.611295	0.601656	8.427323	1812.579
2.934451	40.12985	25.59911	12.51019	14.44196	0.074036	21482.5	0.003165	107.5713	0.609813	0.598486	8.385655	1818.974
3.159262	39.71163	25.98945	12.55836	14.66555	0.088621	25714.96	0.002833	107.7001	0.566801	0.541374	8.351663	1824.019
3.433106	39.84595	26.56891	12.57956	14.85759	0.10167	29475.04	0.002675	107.8392	0.549693	0.524197	8.325141	1828.251
3.918371	40.41014	26.74274	12.56973	15.16432	0.113864	32974.88	0.002698	108.0512	0.55553	0.528362	8.288435	1834.284
4.07585	40.39437	27.12766	12.52786	15.30524	0.124156	35938.4	0.002467	108.0804	0.528751	0.493468	8.276246	1836.001

ตารางที่ ค.40 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 40^{\circ}\text{C}$, $T_{w,in} = 12.5^{\circ}\text{C}$ และ $m_w = 0.37 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
1.478902	40.28935	25.17531	12.51714	13.44014	0.033275	9659.076	0.003527	118.5056	0.614229	0.607596	8.511958	2011.616
2.072505	40.25766	25.09919	12.54345	13.82809	0.046173	13406.27	0.003637	118.7966	0.634663	0.632544	8.459008	2020.739
2.528603	40.63292	25.47348	12.55637	14.08301	0.059028	17119.32	0.003402	118.955	0.621963	0.614106	8.425046	2026.432
2.868777	40.15323	25.78457	12.51145	14.2902	0.071488	20738.87	0.003196	118.9979	0.593171	0.577767	8.404574	2029.508
3.210636	40.22464	26.09866	12.54527	14.5529	0.083721	24275.23	0.003044	119.1793	0.575322	0.552598	8.367364	2035.863
3.571109	40.30959	26.21888	12.55262	14.71402	0.096915	28094.67	0.002942	119.2725	0.577635	0.555181	8.346338	2039.411
3.914048	40.6948	26.79872	12.56172	14.91358	0.109246	31618.34	0.002744	119.3954	0.553856	0.525776	8.320411	2043.854
4.207227	40.33308	26.81563	12.56391	15.06185	0.120906	35016.59	0.002485	119.4975	0.560642	0.538434	8.301793	2047.161

ตารางที่ ค.41 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 40^{\circ}\text{C}$, $T_{w,in} = 15^{\circ}\text{C}$ และ $m_w = 0.21 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
1.341657	40.08701	26.09012	15.28925	16.72275	0.033764	9790.565	0.003616	74.15837	0.655	0.650225	7.786937	1234.758
1.806349	40.11226	26.08287	15.11263	16.98391	0.048037	13927.68	0.003374	74.1815	0.643711	0.629367	7.777523	1235.745
2.101194	40.28923	26.44331	15.19153	17.39196	0.0569	16480.97	0.003217	74.37802	0.62426	0.601867	7.72366	1241.893
2.394681	40.24011	27.07815	15.25821	17.76418	0.071936	20817.62	0.002855	74.58465	0.579879	0.545953	7.675632	1247.643
2.623587	39.89974	27.16072	15.31801	18.04194	0.084927	24593.43	0.002768	74.70681	0.576713	0.541262	7.639026	1251.819
2.984786	39.94533	27.20196	15.16751	18.27056	0.096037	27808.51	0.002795	74.66882	0.588155	0.555233	7.630595	1252.321
3.14817	40.16297	27.75321	15.21052	18.45403	0.109262	31602.09	0.00254	74.77661	0.552725	0.510635	7.606238	1255.3
3.464318	40.13122	27.64442	15.07367	18.64366	0.120576	34886.37	0.002487	74.79066	0.563952	0.522642	7.600581	1255.921

ตารางที่ ค.42 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 40^{\circ}\text{C}$, $T_{w,in} = 15^{\circ}\text{C}$ และ $m_w = 0.25 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
1.39113	40.09109	25.49094	15.15917	16.38048	0.033388	9689.202	0.003803	86.57271	0.673339	0.669643	7.839876	1458.972
1.81152	40.07821	25.81198	15.14034	16.70266	0.045713	13259.43	0.003579	86.73645	0.660183	0.653214	7.805811	1463.673
2.143168	39.88562	25.98516	15.17767	17.02005	0.058959	17099.63	0.003231	86.86101	0.626608	0.60271	7.766281	1468.699
2.539834	40.28757	26.42856	15.09626	17.28395	0.071536	20721.38	0.003081	86.9431	0.611181	0.582761	7.746071	1471.415
2.706622	40.00426	26.61706	15.18901	17.51142	0.085165	24676.86	0.002819	87.05318	0.583309	0.541604	7.710816	1475.943
2.912633	40.09283	27.10552	15.17187	17.75146	0.096692	27993.29	0.002632	87.16702	0.550697	0.497966	7.686429	1479.357
3.154928	40.31126	27.48019	15.10414	17.93032	0.108747	31452.1	0.00246	87.22973	0.521925	0.45904	7.674318	1481.099
3.314383	40.33703	27.99629	15.18772	18.21733	0.120902	34935.63	0.002486	87.4207	0.486857	0.415385	7.634156	1486.799

ตารางที่ ค.43 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 40^{\circ}\text{C}$, $T_{w,in} = 15^{\circ}\text{C}$ และ $m_w = 0.29 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
1.375377	40.21076	25.54993	15.08164	16.18582	0.03255	9442.677	0.003745	98.61756	0.644134	0.626952	7.870649	1681.486
1.848376	40.37407	25.8471	15.13036	16.59549	0.044952	13029.29	0.003558	98.81106	0.634557	0.612007	7.818938	1689.093
2.159816	40.00135	26.27476	15.0518	16.76288	0.058346	16911.86	0.003209	98.82466	0.601447	0.570818	7.808981	1690.394
2.506184	39.94304	26.14674	15.02354	16.99434	0.069723	20215.72	0.00315	98.90142	0.602803	0.565823	7.786281	1693.708
2.770442	39.99616	26.52298	15.15489	17.26918	0.083799	24284.77	0.002924	99.11305	0.587251	0.546023	7.741227	1700.745
3.006902	40.01311	27.02476	15.11672	17.49382	0.095923	27783.91	0.002799	99.15151	0.566617	0.520061	7.720686	1703.562
3.257198	40.3689	27.77283	15.0315	17.62389	0.107494	31082.86	0.002597	99.1926	0.535288	0.486425	7.715759	1704.458
3.464676	39.9542	27.4325	15.08752	17.83148	0.119193	34507.82	0.002494	99.37127	0.537769	0.482907	7.686902	1709.326

ตารางที่ ค.44 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 40^{\circ}\text{C}$, $T_{w,in} = 15^{\circ}\text{C}$ และ $m_w = 0.33 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
1.32941	40.36149	25.60833	15.07312	16.0774	0.032335	9380.847	0.003721	110.5323	0.619045	0.584387	7.883929	1904.451
1.827931	40.2176	25.13056	15.03548	16.23547	0.045915	13327.11	0.003546	110.5828	0.654448	0.628618	7.870253	1906.686
2.116076	40.17765	25.79856	15.04979	16.46621	0.058392	16932.8	0.003149	110.7025	0.606428	0.566275	7.842542	1911.329
2.555125	40.38604	26.06613	15.0334	16.76687	0.070808	20516.93	0.003079	110.9009	0.595212	0.550594	7.810595	1917.149
2.806242	40.32927	26.47196	15.1262	17.02648	0.083888	24296.68	0.002864	111.0557	0.573427	0.521388	7.771282	1923.727
3.163283	40.52624	26.77782	15.25531	17.38389	0.097591	28251.34	0.002837	111.3828	0.576629	0.525663	7.717537	1933.626
3.327706	39.97129	27.05702	15.07033	17.37093	0.109513	31716.64	0.002659	111.2206	0.547079	0.491255	7.739329	1929.386
3.452216	40.23688	27.22129	15.0652	17.49464	0.109483	31685.47	0.002553	111.2768	0.549028	0.494904	7.726262	1931.633

ตารางที่ ค.45 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 40^{\circ}\text{C}$, $T_{w,in} = 15^{\circ}\text{C}$ และ $m_w = 0.37 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
1.460066	40.91584	26.74562	15.00914	15.84647	0.033749	9764.838	0.003695	122.7993	0.653345	0.670346	7.917584	2126.352
1.899558	40.619	26.74524	15.06131	16.22174	0.045672	13223.47	0.003677	123.0384	0.640166	0.648072	7.868881	2135.497
2.251844	40.80375	27.12227	15.04537	16.35686	0.058653	16968.21	0.003336	122.9595	0.62517	0.628286	7.855388	2137.023
2.66118	40.71331	27.29812	15.02466	16.57628	0.071766	20758.17	0.003199	123.0651	0.61259	0.61089	7.832974	2141.24
3.033103	40.5638	27.40206	15.07854	16.83127	0.084948	24573.34	0.003109	123.3067	0.607721	0.604297	7.79834	2148.347
3.311643	40.64926	27.70581	15.01397	16.98744	0.09602	27758.06	0.002935	123.3262	0.578705	0.563455	7.788117	2150.082
3.629223	40.62234	27.98617	15.0785	17.17403	0.109354	31602.68	0.002838	123.439	0.579074	0.568551	7.760202	2155.28
3.933126	40.6848	28.26092	15.05358	17.34022	0.120532	34814.26	0.002488	123.6407	0.56436	0.551531	7.74457	2159.175

ตารางที่ ค.46 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 40^{\circ}\text{C}$, $T_{w,in} = 17.5^{\circ}\text{C}$ และ $m_w = 0.21 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
1.369571	40.26338	28.30934	17.50498	18.94502	0.034197	9874.692	0.003634	76.40198	0.653721	0.671965	7.316851	1294.327
1.725096	40.22144	28.41707	17.51	19.30894	0.045455	13123.63	0.003432	76.55975	0.638643	0.649531	7.279886	1299.102
2.022141	40.28575	28.72663	17.52576	19.62086	0.05873	16948.24	0.003109	76.66165	0.609115	0.608978	7.247313	1303.073
2.24233	40.16477	28.73325	17.50322	19.81436	0.071455	20623.1	0.002827	76.64766	0.5807	0.564199	7.230415	1304.667
2.472078	40.23822	29.05737	17.50062	20.08807	0.084147	24272.32	0.002625	76.76913	0.549195	0.521718	7.203751	1308.217
2.646103	40.2298	29.31336	17.5137	20.26798	0.096774	27903.12	0.002419	76.82387	0.524835	0.488066	7.184869	1310.521
2.897866	40.28388	29.66643	17.49761	20.50979	0.108586	31291.63	0.002357	76.87007	0.521262	0.487661	7.162888	1313.097
3.067763	40.2624	30.00253	17.50644	20.69158	0.119327	34374.75	0.002497	76.92477	0.513142	0.482578	7.144412	1315.383

ตารางที่ ค.47 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 40^{\circ}\text{C}$, $T_{w,in} = 17.5^{\circ}\text{C}$ และ $m_w = 0.25 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
1.274775	40.44606	28.00713	17.51906	18.68883	0.034015	9825.754	0.003429	89.14276	0.616887	0.610637	7.341278	1532.145
1.603548	40.05057	27.82257	17.50472	18.93307	0.045799	13243.94	0.003359	89.22997	0.627456	0.62204	7.31808	1535.496
1.8733	40.2746	28.16553	17.49507	19.11531	0.059015	17053.76	0.003027	89.29734	0.600192	0.584365	7.300744	1538.018
2.154666	40.25579	28.49321	17.51081	19.37477	0.071483	20646.38	0.002845	89.41266	0.580683	0.559466	7.273242	1542.104
2.420704	40.44537	28.74778	17.50911	19.60456	0.08419	24303.38	0.00272	89.51573	0.566214	0.53866	7.250578	1545.546
2.512038	40.08312	28.92154	17.51165	19.6812	0.096837	27970.53	0.002553	89.5292	0.549643	0.518259	7.242737	1546.581
2.679849	40.39809	29.40949	17.50786	19.80775	0.108695	31360.08	0.00238	89.59619	0.527525	0.490762	7.230609	1548.513
2.665509	40.57073	29.48567	17.53087	19.88193	0.119938	34606	0.002492	89.61552	0.502225	0.440555	7.221031	1549.801

ตารางที่ ค.48 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 40^{\circ}\text{C}$, $T_{w,in} = 17.5^{\circ}\text{C}$ และ $m_w = 0.29 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
1.2093	40.4537	27.87242	17.52658	18.45504	0.034267	9906.988	0.003473	101.6392	0.630035	0.630424	7.364229	1767.519
1.535708	40.29482	28.00682	17.49384	18.70455	0.045546	13167.86	0.0033	101.7302	0.607905	0.597006	7.34224	1771.156
1.854001	40.46538	28.19831	17.5374	18.90558	0.058974	17041.64	0.003075	101.8668	0.606299	0.594636	7.317558	1775.509
2.096485	40.17721	28.3566	17.52517	19.10802	0.071593	20695.87	0.002938	101.9526	0.586789	0.568394	7.298458	1778.747
2.363086	40.5106	28.79445	17.52774	19.28267	0.084294	24340.5	0.002757	102.0259	0.573119	0.551249	7.280737	1781.719
2.612833	40.46264	29.01955	17.52368	19.45732	0.097018	28008.45	0.002654	102.1679	0.558336	0.53443	7.263747	1785.086
2.863353	40.57919	29.26678	17.49725	19.6203	0.108801	31393.85	0.002575	102.2489	0.549727	0.523833	7.250193	1787.553
3.051956	40.50972	29.46893	17.53605	19.83907	0.119532	34484.79	0.002495	102.3541	0.541374	0.512609	7.224742	1791.871

ตารางที่ ค.49 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 40^{\circ}\text{C}$, $T_{w,in} = 17.5^{\circ}\text{C}$ และ $m_w = 0.33 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
1.35468	40.32886	27.86786	17.52496	18.4722	0.034267	9900.303	0.003556	114.1295	0.62254	0.618529	7.362649	2005.777
1.723187	40.19919	27.95814	17.51654	18.71274	0.04555	13159.91	0.00339	114.2385	0.612472	0.603301	7.339115	2010.212
2.150665	40.37908	28.17443	17.53173	18.99713	0.059092	17060.99	0.00321	114.4443	0.602103	0.587777	7.308924	2016.402
2.488977	40.42115	28.41962	17.50663	19.18476	0.071586	20657.44	0.003012	114.4479	0.585373	0.565553	7.292631	2018.994
2.759709	40.35688	28.69243	17.51615	19.36189	0.084308	24320	0.002805	114.5297	0.564487	0.539088	7.273994	2022.523
3.029932	40.43066	28.95397	17.51373	19.55724	0.096959	27956.5	0.002668	114.6551	0.544991	0.513391	7.254812	2026.462
3.131847	40.00931	29.15418	17.50907	19.64959	0.108821	31388.47	0.00248	114.6984	0.516901	0.478969	7.246121	2028.151
3.43138	40.33193	29.34677	17.52602	19.81707	0.119784	34521.84	0.002494	114.8313	0.517169	0.47923	7.227899	2032.015

ตารางที่ ค.50 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 40^{\circ}\text{C}$, $T_{w,in} = 17.5^{\circ}\text{C}$ และ $m_w = 0.37 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
1.366614	39.92144	27.68615	17.5095	18.38485	0.034278	9907.904	0.003475	126.2704	0.601294	0.587451	7.373113	2239.521
1.783166	40.49917	27.94464	17.53111	18.63248	0.045401	13104.98	0.003316	126.4641	0.598028	0.581	7.345762	2245.67
2.074123	40.06683	27.92232	17.53997	18.81812	0.059001	17046.7	0.003083	126.5214	0.579549	0.552441	7.326109	2249.525
2.415644	40.05221	28.17158	17.51598	18.99626	0.071424	20628.21	0.002938	126.6182	0.565888	0.536306	7.310594	2252.947
2.655399	40.08566	28.39691	17.50884	19.11934	0.084511	24400.33	0.002727	126.6599	0.545045	0.507528	7.29896	2255.298
2.958028	40.12992	28.66803	17.51352	19.30783	0.097215	28057	0.002644	126.7632	0.535895	0.497718	7.279646	2259.463
3.197961	40.25857	28.94074	17.51248	19.40988	0.108922	31421.21	0.00256	126.7722	0.53503	0.499381	7.26958	2261.324
3.304747	40.07949	29.14083	17.52319	19.51565	0.119768	34553.78	0.002493	126.8173	0.516331	0.475224	7.258001	2263.712

ตารางที่ ค.51 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 45^{\circ}\text{C}$, $T_{w,in} = 10^{\circ}\text{C}$ และ $m_w = 0.21 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.426881	45.05543	13.21966	9.98322	12.78865	0.033546	9651.741	0.00352	75.8448	0.768388	0.963025	9.049001	1104.859
2.94602	44.72705	18.03073	9.99898	13.40655	0.04584	13198.73	0.003235	76.30048	0.711599	0.813738	8.96875	1111.583
3.502273	45.13624	22.40119	9.98256	14.06712	0.058546	16832.24	0.003029	76.71389	0.66565	0.637185	8.899118	1117.65
3.838622	44.76301	24.44771	9.98341	14.48062	0.071017	20428.89	0.002874	77.05716	0.633009	0.50771	8.841429	1122.411
4.400648	44.8738	27.53533	9.92245	15.1434	0.089055	25588.33	0.002705	77.37092	0.595619	0.305151	8.793146	1126.49
4.586219	44.77716	27.62189	10.01773	15.42261	0.096355	27674.59	0.002648	77.75433	0.583657	0.284493	8.722902	1132.901
5.006811	45.05354	29.08765	10.10131	15.98562	0.108138	31018.17	0.002567	78.11554	0.565406	0.186919	8.6566	1139.009
5.214273	45.04174	30.24466	9.92313	16.16731	0.119641	34311.7	0.002498	78.22983	0.550568	0.066849	8.653037	1139.096

ตารางที่ ค.52 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 45^{\circ}\text{C}$, $T_{w,in} = 10^{\circ}\text{C}$ และ $m_w = 0.25 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.400981	44.88752	13.7607	10.00184	12.30906	0.032298	9296.909	0.003556	88.93534	0.781316	0.933019	9.099362	1305.982
2.899266	44.59267	18.6044	9.906	12.75514	0.046286	13334.47	0.003226	89.2536	0.710573	0.765768	9.059847	1309.931
3.248022	44.76984	21.37906	9.91204	13.10372	0.053686	15456.32	0.0031	89.72276	0.682205	0.653953	8.990929	1317.139
3.837768	44.79676	25.38528	9.9738	13.72469	0.06936	19958.08	0.002893	90.05128	0.637221	0.432263	8.936164	1322.937
4.282613	44.92608	27.22359	9.95488	14.16535	0.083687	24057.87	0.00275	90.40639	0.606323	0.298736	8.886205	1327.881
4.665389	45.08619	28.05784	9.90111	14.52925	0.096476	27715.58	0.002647	90.66744	0.583483	0.236968	8.853039	1331.219
4.991344	44.73411	28.75569	10.05518	14.93967	0.10809	31051.09	0.002567	91.07623	0.56633	0.164639	8.781869	1338.989
5.315693	44.82493	29.34254	9.97013	15.23477	0.121402	34852.88	0.002488	91.19395	0.549072	0.110133	8.771746	1339.729

ตารางที่ ค.53 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 45^{\circ}\text{C}$, $T_{w,in} = 10^{\circ}\text{C}$ และ $m_w = 0.29 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.422724	45.12401	10.26648	9.93237	11.97366	0.033143	9535.166	0.003532	101.7945	0.775633	1.01563	9.133405	1505.445
3.039826	45.18832	17.08156	9.91469	12.48403	0.045691	13144.66	0.003238	102.2543	0.710866	0.833222	9.074353	1512.282
3.646427	45.10857	20.80675	9.9592	13.01954	0.059724	17174.07	0.003012	102.6582	0.661461	0.69495	9.017212	1519.076
4.006831	45.00283	22.96014	9.937	13.31865	0.070735	20339.18	0.002878	102.9722	0.6328	0.586211	8.978838	1523.316
4.417053	44.80848	23.539	9.96309	13.68436	0.083717	24064	0.00275	103.4623	0.605305	0.550292	8.914757	1531.239
4.817583	45.03022	25.3288	10.07644	14.08433	0.094426	27124.91	0.002662	103.8531	0.586351	0.443937	8.855568	1538.508
5.235344	45.10601	26.91563	9.96094	14.39229	0.109073	31311.67	0.002561	104.0235	0.563793	0.343006	8.843514	1539.877
5.575005	45.12087	28.10894	10.00084	14.70878	0.120319	34524.31	0.002494	104.2871	0.54929	0.254214	8.806948	1544.179

ตารางที่ ค.54 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 45^{\circ}\text{C}$, $T_{w,in} = 10^{\circ}\text{C}$ และ $m_w = 0.33 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.536653	44.98232	17.43591	10.02173	11.83696	0.033334	9594.567	0.003526	114.5875	0.774117	0.805685	9.14346	1709.835
3.003641	44.80673	21.96085	9.93023	12.13533	0.045674	13153.62	0.003238	114.907	0.712221	0.613407	9.114107	1712.777
3.637563	45.19354	23.34517	10.03339	12.65277	0.059527	17109.69	0.003015	115.406	0.663902	0.543128	9.046497	1722.058
3.993932	45.15598	25.20126	10.0043	12.90403	0.070642	20302.24	0.002879	115.6688	0.634681	0.424293	9.0187	1725.308
4.304392	44.66554	27.82466	9.99724	13.1351	0.083604	24075.02	0.00275	116.0477	0.607499	0.205651	8.976543	1731.024
4.660106	44.85526	27.6341	9.97925	13.39288	0.094416	27150.71	0.002662	116.2354	0.587956	0.222005	8.956266	1733.558
5.130117	44.94056	28.28094	10.01417	13.76347	0.108896	31282.79	0.002562	116.5432	0.565967	0.171327	8.917847	1738.262
5.360659	44.81707	29.2056	9.98238	13.92586	0.120262	34557.22	0.002494	116.7435	0.551564	0.066642	8.898171	1741.047

ตารางที่ ค.55 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 45^{\circ}\text{C}$, $T_{w,in} = 10^{\circ}\text{C}$ และ $m_w = 0.37 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.326926	44.99904	9.467307	9.93044	11.49833	0.033135	9535.306	0.003532	126.6955	0.77687	1.02035	9.213313	1898.341
2.92394	45.28517	15.48999	9.91469	11.8789	0.045663	13133.39	0.003239	127.1111	0.71275	0.863764	9.170011	1905.063
3.471796	44.96447	20.14489	9.93789	12.24831	0.059167	17032	0.003019	127.6089	0.665012	0.686738	9.115337	1911.849
3.860808	44.80045	21.74265	10.001	12.53564	0.07029	20239.28	0.002882	127.976	0.635868	0.600329	9.071175	1918.448
4.258022	44.73927	23.14163	9.952	12.77468	0.083633	24059.31	0.00275	128.1479	0.60738	0.518038	9.057003	1920.015
4.68132	44.89827	25.38443	10.00636	13.0803	0.094372	27136.3	0.002662	128.6224	0.587817	0.38665	9.003339	1928.778
5.126864	45.01757	27.19596	9.96646	13.35828	0.108446	31171.44	0.002564	128.9766	0.566112	0.264844	8.970426	1933.963
5.446104	44.77928	27.87304	10.07594	13.62513	0.120053	34497.08	0.002495	129.3611	0.551539	0.18979	8.921724	1942.073

ตารางที่ ค.56 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 45^{\circ}\text{C}$, $T_{w,in} = 12.5^{\circ}\text{C}$ และ $m_w = 0.21 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.444107	44.83205	14.69149	12.48367	15.34014	0.034302	9848.992	0.003501	78.54934	0.764736	0.995785	8.401414	1166.577
2.923876	44.89786	19.66132	12.52564	15.93717	0.045899	13178.6	0.003236	78.95563	0.707719	0.835361	8.33458	1173.2
3.340306	44.73386	22.22643	12.56577	16.46374	0.058941	16928.19	0.003024	79.34748	0.663146	0.71823	8.271167	1179.188
3.786365	45.26053	26.80339	12.47139	16.96823	0.071174	20412.41	0.002875	79.71951	0.628491	0.461689	8.221905	1184.132
4.135179	45.07038	28.63419	12.54144	17.42487	0.084452	24220.01	0.002745	80.09058	0.604653	0.303685	8.160861	1190.642
4.423501	45.04463	28.53941	12.51154	17.7728	0.095794	27436.63	0.002654	80.34298	0.584841	0.308639	8.125515	1194.224
4.730079	44.90261	28.62681	12.53741	18.1742	0.108808	31151.3	0.002564	80.49406	0.565523	0.296188	8.1003	1196.84
4.96143	44.78061	29.44892	12.48628	18.46026	0.120593	34518.71	0.002494	80.70157	0.548034	0.216803	8.073611	1199.597

ตารางที่ ค.57 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 45^{\circ}\text{C}$, $T_{w,in} = 12.5^{\circ}\text{C}$ และ $m_w = 0.25 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.406418	45.14106	12.80725	12.5694	14.88771	0.034081	9780.896	0.003507	92.26605	0.768273	1.034173	8.420154	1382.919
2.882194	44.91496	19.42747	12.54399	15.34864	0.045742	13137.51	0.003239	92.73998	0.709957	0.818076	8.359312	1389.82
3.397584	45.00552	23.86764	12.5027	15.84348	0.059023	16942.01	0.003023	93.042	0.662653	0.614306	8.321934	1393.699
3.838363	45.11219	24.87309	12.51195	16.29242	0.071144	20402.43	0.002875	93.41151	0.630263	0.565444	8.272681	1399.647
4.236625	45.09933	26.98319	12.48476	16.68592	0.084585	24247.46	0.002744	93.6682	0.601821	0.42688	8.240983	1403.322
4.531135	45.06345	27.64709	12.52015	17.00858	0.096758	27725.93	0.002647	93.91132	0.58136	0.35997	8.20664	1407.297
4.839104	44.81153	28.83767	12.52984	17.33352	0.10888	31198.06	0.002563	94.17977	0.563289	0.26155	8.171391	1412.022
5.130215	45.00845	29.42424	12.53698	17.63954	0.119989	34357.66	0.002497	94.38811	0.548889	0.209374	8.143987	1415.316

ตารางที่ ค.58 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 45^{\circ}\text{C}$, $T_{w,in} = 12.5^{\circ}\text{C}$ และ $m_w = 0.29 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.489965	44.79639	12.91308	12.5282	14.58885	0.034109	9796.767	0.003506	105.6978	0.766139	1.019288	8.437196	1596.222
2.951602	44.79327	17.94247	12.47524	14.95279	0.045625	13108.47	0.003241	105.8699	0.709035	0.871138	8.420212	1597.953
3.525254	45.00106	22.31253	12.47922	15.4435	0.058955	16926.76	0.003024	106.4426	0.661659	0.699336	8.353563	1607.29
3.911779	44.76862	25.38388	12.53756	15.8044	0.071147	20438.09	0.002874	106.774	0.630036	0.521926	8.310589	1613.055
4.24698	44.71564	26.76285	12.53047	16.09313	0.084608	24299.23	0.002743	107.0981	0.602548	0.408198	8.274234	1617.889
4.662606	44.88964	26.99437	12.51759	16.44798	0.096609	27701.68	0.002647	107.374	0.581174	0.407246	8.243498	1622.072
5.042483	45.00183	28.4105	12.48327	16.76259	0.108885	31201.36	0.002563	107.4801	0.562484	0.312324	8.233176	1623.33
5.239828	44.83713	29.07346	12.51247	16.95639	0.121177	34726.52	0.00249	107.7041	0.547721	0.217842	8.205783	1627.467

ตารางที่ ค.59 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 45^{\circ}\text{C}$, $T_{w,in} = 12.5^{\circ}\text{C}$ และ $m_w = 0.33 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.428955	44.9748	13.48763	12.50915	14.27747	0.034343	9869.615	0.003499	118.6687	0.766614	0.992917	8.486654	1803.457
2.989445	45.2377	17.85405	12.49615	14.68265	0.04563	13104.88	0.003241	119.0984	0.709318	0.865321	8.442367	1809.592
3.492971	45.02667	22.1679	12.5268	15.07097	0.05861	16834.63	0.003029	119.5508	0.663813	0.68466	8.392823	1817.082
3.879756	44.74231	23.63016	12.5422	15.36894	0.071206	20451.79	0.002873	119.9625	0.630927	0.599061	8.349405	1823.744
4.392989	44.96031	25.83369	12.53986	15.75155	0.08448	24237.55	0.002745	120.284	0.602142	0.482678	8.316133	1828.935
4.782733	45.14169	26.77639	12.52115	16.03685	0.096811	27747.45	0.002646	120.5246	0.580655	0.422034	8.292728	1832.568
5.081071	44.90919	28.30319	12.52227	16.26488	0.108845	31206.27	0.002563	120.7551	0.563029	0.299072	8.269136	1836.333
5.438082	45.1753	28.7717	12.52179	16.53751	0.121455	34785.32	0.002489	120.9501	0.546926	0.258615	8.248991	1839.179

ตารางที่ ค.60 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 45^{\circ}\text{C}$, $T_{w,in} = 12.5^{\circ}\text{C}$ และ $m_w = 0.37 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.52129	45.06052	13.41652	12.54568	14.16269	0.034147	9814.51	0.003504	131.8137	0.765953	0.991267	8.483406	2015.4
2.972715	44.75051	18.30482	12.5212	14.44602	0.045661	13131.63	0.003239	132.1825	0.709469	0.83869	8.450425	2020.849
3.552935	44.77434	21.51516	12.50716	14.82027	0.059309	17038.77	0.003019	132.4979	0.661129	0.714496	8.421158	2025.78
3.954123	45.07483	23.24432	12.51551	15.0899	0.071224	20448.69	0.002874	132.9944	0.630385	0.621906	8.374663	2033.654
4.31813	44.77255	25.26957	12.509	15.32928	0.08431	24217.75	0.002745	133.2163	0.60313	0.4928	8.354222	2036.888
4.719579	44.8304	26.4343	12.5161	15.60028	0.096775	27780.94	0.002645	133.5987	0.581317	0.41704	8.318461	2043.172
4.741279	44.89531	24.94218	12.52555	15.61929	0.09669	27729.71	0.002646	133.8704	0.581437	0.518771	8.293724	2047.808
5.393649	45.03948	28.25984	12.5346	16.06281	0.12155	34851.66	0.002488	134.0291	0.547541	0.263588	8.276892	2051.225

ตารางที่ ค.61 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 45^{\circ}\text{C}$, $T_{w,in} = 15^{\circ}\text{C}$ และ $m_w = 0.21 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.297119	44.86898	17.39759	15.00144	17.71263	0.034052	9759.033	0.003509	81.26864	0.764891	0.985151	7.816909	1229.912
2.699465	44.90805	21.17558	14.99903	18.1989	0.045805	13122.4	0.00324	81.67737	0.707721	0.839994	7.75969	1236.344
3.135376	45.13365	25.03923	14.9262	18.6888	0.058913	16867.29	0.003027	81.92552	0.664317	0.636588	7.729458	1239.328
3.475158	45.09097	26.14041	14.91343	19.11493	0.071362	20412.92	0.002875	82.21753	0.628035	0.565228	7.68971	1244.077
3.88523	45.14557	27.89717	15.04689	19.69138	0.084368	24113.52	0.002748	82.54509	0.600174	0.444336	7.634891	1250.481
4.078664	45.11933	30.455	15.00308	19.92375	0.095645	27342.86	0.002656	82.78385	0.580511	0.185047	7.605737	1253.924
4.361096	45.04229	31.09549	14.96608	20.2706	0.108554	31013.08	0.002567	82.99844	0.560854	0.115305	7.578995	1257.123
4.551671	44.93478	32.01584	15.04247	20.54748	0.119536	34138.38	0.002502	83.21871	0.549455	-0.02503	7.544189	1261.471

ตารางที่ ค.62 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 45^{\circ}\text{C}$, $T_{w,in} = 15^{\circ}\text{C}$ และ $m_w = 0.25 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.314997	45.17252	16.10896	15.00564	17.23161	0.034027	9745.775	0.003511	95.38235	0.766991	1.010139	7.847894	1457.584
2.70537	44.8431	20.00868	14.9016	17.57081	0.046103	13213.25	0.003233	95.6102	0.707498	0.865563	7.827255	1459.727
3.112732	44.79525	23.73833	14.92369	17.99284	0.058805	16853.06	0.003028	95.93217	0.663702	0.672869	7.786606	1465.008
3.56862	45.16704	26.45708	14.9588	18.46988	0.070916	20297.63	0.002879	96.28346	0.630805	0.51271	7.741785	1470.798
3.948948	45.17682	27.98822	14.95239	18.85723	0.084261	24103.94	0.002749	96.62542	0.602292	0.398445	7.7017	1476.346
4.18758	44.88399	29.54161	15.0498	19.15382	0.095666	27371.37	0.002656	96.89722	0.583125	0.23393	7.662988	1481.732
4.547023	45.25648	30.22995	14.99811	19.5024	0.108628	31034.73	0.002567	97.09736	0.56341	0.180665	7.642674	1484.513
4.810597	45.18082	31.24808	14.95371	19.75795	0.119903	34237.07	0.0025	97.27365	0.5486	0.08127	7.625004	1486.797

ตารางที่ ก.63 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 45^{\circ}\text{C}$, $T_{w,in} = 15^{\circ}\text{C}$ และ $m_w = 0.29 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.311496	45.35914	14.97503	14.91387	16.88509	0.034019	9736.955	0.003512	109.0084	0.765942	1.032654	7.892842	1676.404
2.762373	44.82307	20.32023	14.9904	17.30606	0.046119	13222.31	0.003233	109.4595	0.707398	0.841267	7.839348	1684.492
3.285343	45.247	24.44155	14.99758	17.75517	0.058807	16839.48	0.003028	109.8958	0.662308	0.642726	7.792648	1691.78
3.648637	45.38736	24.78645	14.96773	18.05646	0.071282	20389.64	0.002876	110.0989	0.629758	0.61816	7.772983	1694.853
3.975936	45.09104	28.00424	15.02179	18.36837	0.084304	24135.33	0.002748	110.4772	0.602822	0.371034	7.729989	1701.565
4.353049	45.37258	29.0909	14.99287	18.68365	0.09566	27344.3	0.002656	110.7339	0.582305	0.299068	7.705161	1705.846
4.682958	45.13987	29.32642	15.08891	19.02103	0.108756	31089.84	0.002566	111.0295	0.562954	0.265215	7.667836	1711.744
4.946104	45.24968	29.74992	15.00799	19.21771	0.1211	34580.13	0.002493	111.0956	0.547237	0.220476	7.666138	1711.685

ตารางที่ ก.64 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 45^{\circ}\text{C}$, $T_{w,in} = 15^{\circ}\text{C}$ และ $m_w = 0.33 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.454777	45.12984	13.09793	15.03251	16.82288	0.034184	9773.315	0.003508	122.9581	0.763175	1.079906	7.874873	1907.492
2.925985	44.92906	20.67469	14.96483	17.13894	0.045989	13177.25	0.003236	123.2483	0.704538	0.837216	7.851894	1909.098
3.344265	44.78029	22.38866	15.02675	17.48109	0.058821	16851.45	0.003028	123.5826	0.661366	0.754267	7.815731	1915.762
3.847794	45.18996	24.62703	15.05227	17.87003	0.071309	20399.46	0.002875	123.9653	0.627951	0.646474	7.77787	1922.801
4.112235	44.95036	26.37736	14.95522	18.025	0.084091	24071.52	0.00275	124.1185	0.601486	0.522103	7.770367	1923.711
4.453405	44.89643	27.27639	15.00962	18.31071	0.095749	27398.05	0.002655	124.4107	0.581326	0.454721	7.739294	1929.352
4.865752	45.29974	28.45757	14.97775	18.60907	0.108721	31064.42	0.002566	124.6317	0.561572	0.377091	7.720685	1932.648
5.056509	44.89262	28.36586	15.04587	18.79232	0.121184	34645.88	0.002492	124.9158	0.546597	0.348923	7.6901	1938.017

ตารางที่ ค.65 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 45^{\circ}\text{C}$, $T_{w,in} = 15^{\circ}\text{C}$ และ $m_w = 0.37 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.284752	44.87172	13.28487	14.92152	16.45817	0.03382	9691.012	0.003516	136.221	0.766714	1.064296	7.912358	2123.254
2.943746	44.90223	18.48418	15.06598	16.95972	0.045811	13128.24	0.003239	136.9107	0.706336	0.914022	7.843043	2136.592
3.514449	45.40436	22.97823	15.00189	17.30405	0.058804	16830.01	0.003029	137.1448	0.659647	0.736227	7.826953	2139.403
3.865568	45.2015	23.41529	14.98766	17.53055	0.0711	20342.62	0.002878	137.3685	0.627943	0.707727	7.808784	2142.884
4.292404	45.05816	25.80232	15.09016	17.86531	0.084223	24107.74	0.002748	137.8296	0.600932	0.563548	7.76283	2151.934
4.70009	45.32579	26.69218	15.09923	18.14207	0.095541	27312.17	0.002657	138.0501	0.580745	0.5159	7.743278	2155.883
4.994137	45.20507	28.02163	15.08903	18.33691	0.108725	31086.82	0.002566	138.2968	0.561616	0.40531	7.723443	2159.462
5.328769	45.37049	28.68038	15.04649	18.54326	0.121053	34575.35	0.002493	138.4338	0.545653	0.357204	7.71462	2161.262

ตารางที่ ค.66 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 45^{\circ}\text{C}$, $T_{w,in} = 17.5^{\circ}\text{C}$ และ $m_w = 0.21 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.187736	45.18146	17.96873	17.52924	20.08193	0.033933	9691.777	0.003516	83.9244	0.76802	1.060113	7.2974	1294.64
2.622112	45.49057	21.78629	17.5016	20.59409	0.04581	13075.23	0.003243	84.24516	0.7089	0.913379	7.257507	1299.364
2.949074	45.01996	24.6912	17.50681	21.00014	0.05863	16746.15	0.003033	84.49772	0.664912	0.750845	7.224652	1303.377
3.228909	44.79466	26.32735	17.49355	21.34382	0.07093	20262.54	0.00288	84.67078	0.63265	0.633973	7.203075	1305.893
3.55773	44.85641	29.04324	17.49481	21.75786	0.083976	23979.06	0.002752	84.98772	0.604755	0.407543	7.16305	1311.102
3.799287	44.92376	29.58691	17.54192	22.08884	0.095295	27196.06	0.00266	85.19212	0.585185	0.345652	7.134329	1314.977
4.116481	45.21149	31.28234	17.50176	22.49633	0.108326	30864.62	0.002571	85.38359	0.560051	0.183919	7.112406	1317.608
4.315403	45.03391	32.13622	17.50876	22.76508	0.12023	34255.89	0.002499	85.61969	0.544521	0.065466	7.082905	1322.059

ตารางที่ ค.67 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 45^{\circ}\text{C}$, $T_{w,in} = 17.5^{\circ}\text{C}$ และ $m_w = 0.25 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.204829	45.199	18.2281	17.50315	19.65211	0.033945	9699.529	0.003515	98.51996	0.764886	1.027373	7.324541	1533.13
2.680637	45.33909	20.97043	17.5239	20.1371	0.04596	13121.44	0.003239	98.88249	0.705299	0.931065	7.282912	1538.873
2.976289	44.71991	24.24899	17.4958	20.42667	0.058665	16773.52	0.003031	99.09851	0.661956	0.749521	7.260815	1541.698
3.391106	45.05029	26.56618	17.53421	20.86618	0.070933	20255.94	0.002881	99.40155	0.628977	0.60726	7.225016	1547.006
3.685441	44.99311	27.97257	17.49571	21.15466	0.084075	24006.49	0.002751	99.61565	0.601465	0.489552	7.204058	1549.699
3.911169	44.93188	28.9354	17.43446	21.36209	0.095331	27214.63	0.00266	99.70803	0.581656	0.398138	7.197515	1549.693
4.17452	44.70817	29.92444	17.48129	21.66347	0.108444	30953.96	0.002569	100.0625	0.562357	0.289483	7.156922	1556.489
4.345901	44.39139	30.88307	17.50028	21.86008	0.120407	34389.49	0.002497	100.137	0.54734	0.156938	7.147355	1558.229

ตารางที่ ค.68 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 45^{\circ}\text{C}$, $T_{w,in} = 17.5^{\circ}\text{C}$ และ $m_w = 0.29 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.12616	44.69744	16.27676	17.53438	19.29471	0.033953	9714.098	0.003514	112.7998	0.767074	1.087852	7.33841	1768.66
2.699617	44.93712	21.21739	17.56543	19.79657	0.045988	13145.54	0.003238	113.1967	0.705442	0.90072	7.297564	1775.859
3.108369	44.71581	23.96835	17.56591	20.1481	0.05868	16778.35	0.003031	113.4751	0.661081	0.762216	7.270462	1780.446
3.427039	44.81766	25.16344	17.51638	20.40334	0.07077	20221.92	0.002882	113.5943	0.629303	0.688172	7.261601	1781.858
3.759931	44.78907	26.23323	17.52913	20.70079	0.08408	24014.32	0.002751	113.8246	0.601448	0.611947	7.238558	1785.61
3.976108	44.6733	27.83421	17.54385	20.90074	0.095347	27236.22	0.002659	114.0374	0.58232	0.468327	7.217482	1789.655
4.272056	44.78016	29.01669	17.51803	21.15173	0.108345	30931.35	0.002569	114.2323	0.562769	0.360558	7.200421	1792.63
4.604183	45.01913	29.62435	17.51013	21.44335	0.12062	34397.03	0.002497	114.4859	0.546562	0.31738	7.176895	1797.169

ตารางที่ ค.69 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 45^{\circ}\text{C}$, $T_{w,in} = 17.5^{\circ}\text{C}$ และ $m_w = 0.33 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.156567	44.9242	14.39615	17.45973	19.0562	0.033758	9652.258	0.00352	126.753	0.766703	1.135207	7.374121	2000.333
2.685699	45.22146	20.84999	17.48077	19.45833	0.045709	13065.02	0.003243	127.1675	0.706402	0.903694	7.336679	2007.384
2.99946	44.71933	23.35575	17.48328	19.69562	0.057759	16523.4	0.003044	127.4768	0.664838	0.770273	7.310027	2012.589
3.443697	45.00726	25.54223	17.46925	20.02235	0.070876	20253.22	0.002881	127.7101	0.62923	0.644979	7.290422	2016.208
3.800829	44.71823	26.05827	17.50592	20.31264	0.084642	24180.67	0.002746	128.0043	0.600587	0.606134	7.262887	2021.649
4.074117	44.75909	27.14712	17.51469	20.52614	0.095705	27335	0.002657	128.1959	0.581424	0.520468	7.245894	2024.729
4.324955	44.64817	27.16846	17.50034	20.71316	0.10803	30843.71	0.002571	128.27	0.563219	0.512905	7.240035	2025.997
4.621876	44.90952	28.59947	17.51246	20.94728	0.119107	33987.57	0.002505	128.5252	0.54862	0.393919	7.217696	2030.583

ตารางที่ ค.70 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 45^{\circ}\text{C}$, $T_{w,in} = 17.5^{\circ}\text{C}$ และ $m_w = 0.37 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.275957	45.37233	13.87412	17.47799	18.9577	0.033742	9634.844	0.003522	140.7701	0.765332	1.138474	7.373014	2235.88
2.752942	45.26101	19.2389	17.48708	19.27582	0.045702	13057.57	0.003244	141.0758	0.70599	0.967993	7.34818	2241.101
3.153486	45.0825	22.15917	17.47621	19.53595	0.057743	16498.99	0.003045	141.3192	0.663584	0.841117	7.329626	2244.584
3.55252	45.16708	24.21729	17.47596	19.80144	0.070867	20238.87	0.002881	141.6817	0.628762	0.72969	7.301635	2250.351
3.975264	45.03624	26.14816	17.49738	20.09515	0.084677	24181.61	0.002746	141.9553	0.599496	0.610499	7.278864	2256.057
4.292778	45.28724	26.9571	17.51886	20.31918	0.095692	27300.45	0.002657	142.1664	0.580504	0.55271	7.26107	2259.824
4.567793	45.23979	28.11791	17.49502	20.49503	0.108037	30816.16	0.002572	142.3102	0.562266	0.455465	7.251314	2261.811
4.723522	44.74687	28.95707	17.49701	20.60552	0.119878	34225.61	0.0025	142.4737	0.547513	0.355352	7.238782	2264.404

ตารางที่ ค.71 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 50^{\circ}\text{C}$, $T_{w,in} = 10^{\circ}\text{C}$ และ $m_w = 0.21 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.268019	49.87105	28.66575	9.95344	11.89469	0.033438	9506.449	0.003431	81.03704	0.624001	0.628077	9.065759	1309.244
3.518666	49.91881	29.40105	9.92655	13.56813	0.059011	16768.43	0.00312	69.88629	0.599447	0.590532	8.837498	1122.994
3.966805	49.7014	29.82183	9.94145	14.02541	0.072223	20519.72	0.002891	70.0544	0.576797	0.559973	8.773626	1128.607
4.552063	49.74932	30.17886	10.00112	14.67508	0.084959	24128.39	0.002856	70.35091	0.590163	0.57368	8.678979	1137.381
4.871342	49.8649	30.97517	9.91744	14.9586	0.095573	27105.17	0.002658	70.40112	0.549468	0.528426	8.652595	1139.616
5.461844	49.89419	31.33735	9.95658	15.59056	0.108439	30738.7	0.002645	70.73827	0.549896	0.531638	8.564888	1148.341
5.600145	49.3928	31.62294	9.89924	15.65158	0.120315	34122.12	0.002502	70.63878	0.530548	0.508263	8.56441	1147.678
2.268019	49.87105	28.66575	9.95344	11.89469	0.033438	9506.449	0.003431	81.03704	0.624001	0.628077	9.065759	1309.244

ตารางที่ ค.72 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 50^{\circ}\text{C}$, $T_{w,in} = 10^{\circ}\text{C}$ และ $m_w = 0.25 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.928096	49.63596	28.18052	9.89118	12.41181	0.04601	13101.47	0.003371	81.17397	0.624726	0.619361	9.001834	1315.278
3.525118	49.59299	28.7482	9.91817	12.93209	0.058843	16743.76	0.003158	81.42221	0.606197	0.595736	8.925803	1323.135
3.982349	49.78617	29.66261	10.00953	13.47995	0.071104	20204.86	0.002942	81.75553	0.575757	0.558538	8.838205	1332.639
4.617555	49.80421	29.84971	9.93282	13.8983	0.084202	23921.36	0.002893	81.91164	0.578588	0.56192	8.791916	1337.582
5.133804	50.21359	30.56798	9.97508	14.38806	0.095637	27123.1	0.002775	82.15863	0.56438	0.545199	8.720558	1345.317
5.509248	49.94595	30.78483	10.0303	14.75039	0.108537	30788.24	0.002657	82.31548	0.552965	0.529581	8.665169	1351.143
5.84272	49.55083	31.28422	10.05547	15.09279	0.120886	34293.27	0.002499	82.48122	0.54086	0.519342	8.616853	1356.474
2.267017	49.61819	27.68067	9.96548	11.63344	0.033493	9543.874	0.003607	92.37419	0.644172	0.647402	9.101066	1508.968

ตารางที่ ค.73 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 50^{\circ}\text{C}$, $T_{w,in} = 10^{\circ}\text{C}$ และ $m_w = 0.29 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.911875	49.70231	28.52657	10.07501	12.21588	0.045835	13039.98	0.003279	92.75916	0.610971	0.604872	9.003526	1520.638
3.582856	49.82688	28.69156	9.92814	12.56912	0.05908	16806.39	0.003169	92.76487	0.603996	0.592135	8.974735	1523.369
4.289901	50.1754	29.14879	9.93806	13.08138	0.071165	20219.53	0.003116	93.03843	0.602724	0.590877	8.902493	1532.1
4.729671	49.79858	29.50287	9.99649	13.4743	0.084251	23946.49	0.002966	93.30583	0.586264	0.570737	8.840748	1539.876
5.116975	50.03322	30.16319	10.00796	13.78184	0.095701	27166.03	0.002783	93.43094	0.563947	0.542235	8.797495	1544.936
5.500235	49.85252	30.47319	9.94128	13.99793	0.108842	30894.03	0.002638	93.49959	0.546403	0.519494	8.777347	1547.376
5.951068	49.3246	30.47974	10.08184	14.47859	0.12071	34298.4	0.002499	93.77766	0.556348	0.533632	8.69432	1557.51
2.273145	50.17356	29.10185	9.93622	11.3983	0.032948	9353.486	0.003351	103.6438	0.611025	0.615123	9.138746	1707.076

ตารางที่ ค.74 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 50^{\circ}\text{C}$, $T_{w,in} = 10^{\circ}\text{C}$ และ $m_w = 0.33 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.919573	50.02901	28.77033	10.00676	11.879	0.045291	12875.01	0.003291	103.9238	0.612284	0.609771	9.060445	1717.191
3.817594	49.92034	28.68347	9.97092	12.4459	0.058749	16708.33	0.003385	104.3531	0.622962	0.622208	8.985941	1728.076
4.305813	50.20598	29.59573	9.97729	12.7402	0.0708	20105.27	0.00314	104.5418	0.600655	0.59741	8.944161	1733.868
5.02037	50.11772	29.72656	9.95132	13.17421	0.084076	23875.01	0.0031	104.8895	0.596704	0.592281	8.887922	1742.385
5.180689	50.06708	30.46412	9.96243	13.2998	0.094781	26893.82	0.002825	104.8803	0.564211	0.552011	8.869199	1744.36
5.498884	49.78329	31.05897	10.00119	13.5378	0.10849	30770.5	0.002605	104.9519	0.536959	0.519177	8.831474	1749.001
6.415083	50.3456	32.25647	10.00819	14.4474	0.118974	33670.66	0.002511	105.4141	0.547418	0.541343	8.708248	1766.01
2.385748	50.50796	28.94658	9.98653	11.35511	0.033166	9419.08	0.003646	115.03	0.641121	0.656836	9.137728	1909.556

ตารางที่ ก.75 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 50^{\circ}\text{C}$, $T_{w,in} = 10^{\circ}\text{C}$ และ $m_w = 0.37 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.980188	49.61103	28.12375	10.01238	11.71528	0.045645	13006.81	0.003599	115.1382	0.647469	0.657532	9.082801	1916.738
3.750741	49.93612	28.64965	9.9531	12.096	0.058876	16757.26	0.003468	115.3737	0.636072	0.643491	9.037433	1923.737
4.300162	49.77864	28.96488	9.97546	12.43716	0.070979	20199.42	0.003308	115.5531	0.621995	0.624401	8.986526	1931.061
4.890145	49.89609	29.64495	9.9858	12.78936	0.08434	23976.33	0.003138	115.8464	0.603113	0.603005	8.93618	1939.175
5.435159	49.95846	29.98944	10.00269	13.10952	0.095649	27176.87	0.003073	116.0646	0.599029	0.598867	8.88975	1946.355
6.063577	49.95264	30.65608	10.03792	13.57672	0.108452	30785.1	0.002998	116.2552	0.587617	0.587285	8.821206	1956.143
6.561183	50.09135	30.96677	10.1297	14.04559	0.119354	33855.27	0.002508	116.1966	0.580535	0.572961	8.745653	1965.205
1.91367	49.48668	30.71639	12.45731	14.44447	0.032917	9338.343	0.003095	72.00374	0.579495	0.577922	8.39198	1170.123

ตารางที่ ก.76 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 50^{\circ}\text{C}$, $T_{w,in} = 12.5^{\circ}\text{C}$ และ $m_w = 0.21 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.504558	49.87453	30.75242	12.45892	15.0713	0.04522	12826.81	0.003028	72.19817	0.57799	0.56826	8.313607	1177.513
2.996546	49.43342	30.86014	12.46765	15.55413	0.058175	16513.02	0.002883	72.38252	0.56778	0.554085	8.253105	1183.53
3.459833	49.69338	31.04363	12.50957	16.07296	0.069886	19826.39	0.002783	72.57208	0.564922	0.543191	8.184932	1190.264
3.925302	49.66586	32.0221	12.45935	16.5726	0.088441	25058.5	0.002468	72.52481	0.518486	0.484316	8.130938	1194.265
4.47745	49.91985	32.10252	12.47374	17.097	0.09582	27130.96	0.00258	72.72477	0.542486	0.517306	8.066952	1200.889
4.793658	50.00512	32.94079	12.49163	17.4801	0.107406	30365.71	0.002404	72.92087	0.514723	0.486174	8.019853	1206.148
5.043811	49.53657	33.26735	12.48781	17.69773	0.120159	33981.61	0.002505	73.03672	0.499948	0.471684	7.99492	1209.035
2.232992	50.41725	30.69566	12.52566	14.46208	0.034107	9653.695	0.003256	83.88973	0.602147	0.600481	8.381191	1387.351

ตารางที่ ค.77 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 50^{\circ}\text{C}$, $T_{w,in} = 12.5^{\circ}\text{C}$ และ $m_w = 0.25 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.876832	50.46808	30.2947	12.50029	14.96298	0.045672	12940.15	0.003269	84.03023	0.616698	0.611358	8.321902	1393.803
3.282792	49.48066	30.51657	12.52262	15.44957	0.058749	16675.15	0.003057	84.29873	0.584253	0.569416	8.259177	1401.538
3.802554	50.07935	31.41248	12.53957	15.82372	0.071233	20174.96	0.002851	84.49542	0.570509	0.555537	8.21148	1407.428
4.072062	49.45782	31.88173	12.54446	16.14347	0.085142	24133.46	0.002652	84.63819	0.540786	0.519713	8.172218	1412.175
4.646274	49.73502	32.29889	12.53798	16.52777	0.100056	28331.38	0.00255	84.8199	0.537859	0.517151	8.1269	1417.823
4.936718	49.64298	32.53052	12.55446	16.81156	0.107845	30540.26	0.002571	85.01388	0.542411	0.526688	8.091169	1422.667
5.258891	49.81472	33.1861	12.53749	17.08229	0.118974	33646.91	0.002512	85.19342	0.52044	0.50139	8.061168	1426.867
2.051194	49.07415	29.57198	12.51586	14.06017	0.034083	9692.976	0.003341	95.60668	0.610632	0.608063	8.43306	1597.066

ตารางที่ ค.78 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 50^{\circ}\text{C}$, $T_{w,in} = 12.5^{\circ}\text{C}$ และ $m_w = 0.29 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.690413	49.40116	30.26182	12.51657	14.51131	0.045972	13052.2	0.003154	95.79109	0.598019	0.593067	8.376161	1604.394
3.250038	49.42904	30.63394	12.51739	14.98427	0.05788	16428.29	0.003065	96.00185	0.585014	0.575401	8.317144	1612.213
3.689856	49.33968	30.88506	12.49273	15.23246	0.071051	20167.3	0.002873	96.03296	0.573674	0.55941	8.289527	1615.427
4.221527	49.82144	31.6691	12.50557	15.61541	0.084813	24030.36	0.002704	96.28027	0.554997	0.537656	8.240979	1622.473
4.695372	49.02925	31.40617	12.54619	16.03377	0.095968	27245.52	0.00282	96.57968	0.573491	0.564436	8.185243	1630.753
5.120804	49.69384	32.32005	12.5247	16.33052	0.108235	30637.27	0.002532	96.70454	0.532011	0.509464	8.152103	1635.33
5.385503	49.25513	32.73831	12.56891	16.62059	0.119394	33801	0.002509	96.88396	0.517294	0.495258	8.112144	1641.098

ตารางที่ ค.79 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 50^{\circ}\text{C}$, $T_{w,in} = 12.5^{\circ}\text{C}$ และ $m_w = 0.33 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.663653	49.94487	29.41389	12.52374	14.25695	0.045946	13058.33	0.003256	107.2977	0.611773	0.598089	8.407214	1814.444
3.238666	50.18265	30.36874	12.49146	14.59622	0.058493	16593.83	0.003018	107.4321	0.586416	0.56968	8.368676	1820.067
3.690754	50.00881	31.1193	12.51746	14.91797	0.071361	20233.19	0.002841	107.6432	0.567036	0.550137	8.325355	1826.858
4.236011	49.929	31.30685	12.49708	15.24592	0.085255	24168.99	0.002729	107.8181	0.556255	0.534341	8.287332	1832.791
4.523892	49.88816	31.96028	12.53642	15.51789	0.095623	27086.19	0.002584	107.9687	0.533515	0.507983	8.249126	1838.615
4.952601	49.88627	32.03377	12.5209	15.74324	0.108074	30608.9	0.002498	107.9881	0.530334	0.500641	8.22353	1841.972
5.247716	49.17926	32.09933	12.49643	15.92434	0.119229	33797.62	0.002509	108.0428	0.520361	0.490356	8.204506	1844.761
2.307446	50.28687	30.25626	12.52273	13.87441	0.034244	9706.497	0.003507	118.4605	0.629726	0.63622	8.455753	2018.829

ตารางที่ ค.80 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 50^{\circ}\text{C}$, $T_{w,in} = 12.5^{\circ}\text{C}$ และ $m_w = 0.37 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.838929	49.37812	28.99142	12.53717	14.20043	0.046069	13106.17	0.003442	118.6574	0.631512	0.623104	8.412645	2026.038
3.485287	49.86189	29.77336	12.49765	14.51945	0.058897	16723.05	0.003198	118.8446	0.607828	0.594509	8.377512	2032.138
3.935137	49.80254	30.24653	12.51452	14.8068	0.071221	20211.25	0.002967	119.0039	0.581711	0.5599	8.339531	2038.473
4.479175	49.82326	31.06357	12.53072	15.12315	0.085297	24182.19	0.002825	119.1977	0.568976	0.550144	8.298323	2045.55
4.864041	49.80933	31.42821	12.49866	15.34122	0.095468	27054.06	0.002737	119.3229	0.556477	0.535165	8.275412	2049.628
4.964046	49.56337	31.90954	12.52465	15.45102	0.10837	30710.09	0.002491	119.3775	0.520905	0.488988	8.258751	2052.343
5.277234	49.29934	31.95718	12.49401	15.60271	0.11949	33871.74	0.002507	119.4213	0.511911	0.476225	8.243942	2054.735
1.835378	49.57913	31.95075	14.9262	16.8784	0.033055	9359.452	0.003127	74.05777	0.584976	0.581977	7.81011	1232.008

ตารางที่ ค.81 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 50^{\circ}\text{C}$, $T_{w,in} = 15^{\circ}\text{C}$ และ $m_w = 0.21 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.401618	49.55176	31.88661	15.00525	17.50946	0.045582	12912.35	0.003066	74.28962	0.59191	0.586168	7.731231	1240.591
2.968307	49.34248	31.81152	14.90188	17.9686	0.058547	16595.39	0.003024	74.36158	0.597443	0.590567	7.6922	1244.587
3.34234	49.72101	32.47756	14.9767	18.39457	0.070585	19976.27	0.002765	74.48814	0.571061	0.554982	7.637803	1250.39
3.612389	49.41749	32.87539	14.86848	18.66465	0.084026	23780.33	0.002523	74.46411	0.53384	0.504255	7.620356	1251.802
3.808329	49.74476	33.6308	15.01925	19.02877	0.094451	26688.26	0.002326	74.66919	0.506095	0.468838	7.565289	1258.307
4.190993	49.69784	33.87865	14.9538	19.3702	0.108051	30525.84	0.002256	74.78192	0.498631	0.459084	7.536042	1261.819
4.327383	49.59495	34.42816	14.80508	19.47395	0.1201	33910.87	0.002506	74.71438	0.465945	0.417636	7.540795	1260.892
1.88615	49.59629	32.02409	15.04216	16.65911	0.033051	9350.773	0.003077	86.33975	0.591864	0.590618	7.821697	1459.21

ตารางที่ ค.82 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 50^{\circ}\text{C}$, $T_{w,in} = 15^{\circ}\text{C}$ และ $m_w = 0.25 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.421207	49.5477	31.87823	15.07879	17.16206	0.045286	12817.97	0.002931	86.54734	0.579563	0.566637	7.761497	1466.989
2.898416	49.17758	32.04044	15.05275	17.58254	0.058525	16571.24	0.002736	86.70147	0.554718	0.531617	7.717966	1472.698
3.276117	49.76274	32.62158	15.05455	17.87548	0.070569	19949.96	0.002531	86.83203	0.53196	0.500584	7.685698	1477.075
3.519428	49.52161	33.07796	15.02349	18.06363	0.083998	23748.7	0.002332	86.92724	0.504898	0.466485	7.66859	1479.587
4.008637	49.68847	33.39057	15.04222	18.49749	0.093488	26418.19	0.002414	87.21112	0.520241	0.491299	7.619648	1486.918
4.119233	49.12624	33.68536	15.08945	18.63109	0.108147	30585.34	0.002217	87.28893	0.494433	0.458987	7.600237	1489.592
4.519493	49.43349	34.11276	15.02619	18.90278	0.120161	33934.8	0.002506	87.35084	0.478669	0.438819	7.577963	1492.482
1.863396	49.95986	32.0765	15.0496	16.42724	0.033854	9575.438	0.002988	98.5019	0.577479	0.569984	7.84696	1683.513

ตารางที่ ค.83 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 50^{\circ}\text{C}$, $T_{w,in} = 15^{\circ}\text{C}$ และ $m_w = 0.29 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.424648	49.43778	31.68028	15.03167	16.8207	0.045598	12911.7	0.002908	98.61176	0.575453	0.560067	7.804762	1689.407
2.987559	49.66892	32.06366	15.07646	17.31516	0.058523	16556.28	0.002765	98.92246	0.553332	0.529317	7.74481	1698.954
3.271685	49.44582	32.45696	15.09151	17.53575	0.071158	20132.91	0.002535	98.97107	0.529032	0.496758	7.718848	1702.514
3.663388	49.42409	32.84785	15.04631	17.79524	0.083789	23697.97	0.002422	99.03439	0.51464	0.479117	7.695362	1705.89
4.125274	49.45634	32.90664	15.02041	18.08254	0.093562	26464.81	0.00249	99.15771	0.532335	0.503719	7.66687	1710.344
4.452307	50.04518	33.60404	15.05964	18.34054	0.108162	30534.97	0.00226	99.27314	0.500743	0.46058	7.634682	1715.225
4.778153	49.4455	33.52421	15.02872	18.53813	0.120277	33994.52	0.002505	99.38542	0.500599	0.462639	7.61673	1718.303
2.017933	49.87594	31.76588	15.01404	16.37944	0.03407	9638.624	0.00317	110.4874	0.585532	0.57751	7.856377	1907.91

ตารางที่ ค.84 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 50^{\circ}\text{C}$, $T_{w,in} = 15^{\circ}\text{C}$ และ $m_w = 0.33 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.641663	49.43381	30.81059	15.00497	16.72518	0.045663	12948.19	0.003264	110.5787	0.618255	0.609519	7.818455	1913.799
2.98631	49.46514	31.82231	15.0792	17.01057	0.058661	16608.4	0.002795	110.7466	0.564538	0.543113	7.778276	1920.572
3.432853	49.69159	32.2294	15.00273	17.23264	0.071184	20135.72	0.002612	110.7704	0.541575	0.511517	7.762104	1923.005
3.847647	49.51695	32.55816	15.04979	17.58368	0.083829	23717.04	0.002557	111.0208	0.533896	0.503117	7.718166	1930.981
4.119265	49.33446	32.93335	15.05153	17.82275	0.093917	26565.47	0.002447	111.2103	0.512375	0.4769	7.691785	1936.074
4.516263	49.37514	33.36552	14.99949	17.97969	0.108142	30567.8	0.002307	111.2748	0.498206	0.461654	7.680339	1938.166
4.907965	49.50445	33.62779	15.0822	18.28883	0.120089	33937.62	0.002506	111.564	0.504583	0.471831	7.637829	1946.337
2.037165	49.27771	30.57838	15.08019	16.26266	0.034136	9684.607	0.003371	122.4151	0.620678	0.615709	7.862106	2132.156

ตารางที่ ค.85 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 50^{\circ}\text{C}$, $T_{w,in} = 15^{\circ}\text{C}$ และ $m_w = 0.37 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.709052	50.58131	31.66037	15.02126	16.57209	0.045599	12887.32	0.003137	122.5535	0.59867	0.589341	7.833828	2137.506
3.130409	49.7279	31.3141	15.03291	16.83199	0.05871	16631.3	0.002979	122.6905	0.584318	0.565636	7.803361	2143.22
3.570553	49.16328	31.34637	15.08657	17.12645	0.071287	20215.47	0.002888	122.87	0.580338	0.560413	7.764583	2150.582
3.984747	49.42247	32.00058	15.05441	17.33824	0.083905	23761.56	0.002681	122.9038	0.554504	0.528229	7.744697	2153.965
4.365074	49.71337	32.20758	15.05507	17.56143	0.094028	26611.3	0.002615	123.0604	0.547469	0.516545	7.720031	2158.995
4.758903	49.41453	32.38638	15.00465	17.72373	0.108315	30662.53	0.002493	123.0947	0.534363	0.500017	7.707751	2161.198
5.102471	49.74761	32.86901	15.00869	17.93342	0.120238	33995.86	0.002505	123.2476	0.515377	0.475173	7.684381	2166.026
1.759335	49.61677	32.41167	17.50345	19.32291	0.034034	9622.055	0.003009	76.12787	0.587971	0.570998	7.279146	1296.106

ตารางที่ ค.86 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 50^{\circ}\text{C}$, $T_{w,in} = 17.5^{\circ}\text{C}$ และ $m_w = 0.21 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.077083	49.18171	32.3261	17.55126	19.73293	0.045549	12894.22	0.002785	76.27615	0.562543	0.529433	7.23371	1301.698
2.581931	49.44716	32.72266	17.53004	20.23287	0.058575	16562.2	0.002634	76.43134	0.547237	0.50763	7.186702	1307.557
2.893974	49.55376	33.10498	17.57787	20.5721	0.071082	20085.15	0.002424	76.50634	0.524629	0.475355	7.149062	1311.938
3.170575	49.5763	33.82206	17.52809	20.80838	0.083656	23611.89	0.002219	76.57084	0.49625	0.442715	7.131043	1314.248
3.466785	49.54476	34.02158	17.57806	21.18254	0.09375	26456.08	0.002184	76.72737	0.493263	0.43833	7.090342	1319.589
3.786329	49.83784	34.60841	17.58339	21.52748	0.107923	30420.26	0.002063	76.85946	0.47526	0.41589	7.057018	1324.02
4.003452	49.8271	34.86362	17.55603	21.7223	0.119848	33773.55	0.002509	76.90622	0.464414	0.400899	7.041178	1326.023
1.715224	49.5747	32.77343	17.53687	19.08866	0.034014	9614.766	0.002953	88.9108	0.566112	0.545212	7.299226	1535.456

ตารางที่ ค.87 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 50^{\circ}\text{C}$, $T_{w,in} = 17.5^{\circ}\text{C}$ และ $m_w = 0.25 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.152382	49.34264	32.39514	17.55045	19.42768	0.045544	12890.77	0.002901	89.03794	0.579648	0.555989	7.264032	1540.553
2.572662	49.38479	32.87846	17.54378	19.7806	0.05856	16560.16	0.002649	89.18713	0.548846	0.515378	7.229744	1545.725
3.079801	49.69667	33.24488	17.51382	20.19001	0.071066	20076.28	0.002585	89.33732	0.545298	0.510228	7.192476	1551.311
3.44081	49.34777	33.23991	17.5678	20.55096	0.083735	23673.64	0.002533	89.56639	0.542245	0.504887	7.152085	1557.885
3.65277	49.67836	33.8973	17.58967	20.76332	0.093769	26470.95	0.002347	89.6075	0.516539	0.47246	7.12945	1560.968
3.962519	49.34532	33.98278	17.52312	20.94018	0.108033	30514.54	0.002254	89.63336	0.509263	0.462681	7.118831	1562.467
4.230473	49.75245	34.69186	17.50679	21.182	0.119881	33802.18	0.002508	89.75188	0.482545	0.430559	7.097206	1565.998
1.873188	50.43974	33.12231	17.52344	18.90355	0.033972	9586.266	0.003177	89.09222	0.609386	0.608709	7.319167	1684.913

ตารางที่ ค.88 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 50^{\circ}\text{C}$, $T_{w,in} = 17.5^{\circ}\text{C}$ และ $m_w = 0.29 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.206446	49.40733	32.93488	17.59385	19.21893	0.045474	12858.81	0.002926	89.29418	0.583947	0.573078	7.280501	1691.639
2.714502	49.21364	32.93668	17.57591	19.60807	0.058516	16550.17	0.002803	89.42378	0.567765	0.547218	7.243615	1697.66
3.116085	49.39938	33.14957	17.50232	19.82061	0.071031	20081.78	0.00266	89.48412	0.553618	0.526176	7.229887	1699.997
3.544134	49.69683	33.9432	17.5269	20.15089	0.083585	23580.23	0.002426	89.5907	0.522288	0.489114	7.195023	1705.634
3.807593	49.73666	34.12876	17.55005	20.36546	0.093672	26423.14	0.002357	89.70228	0.515413	0.479123	7.171823	1709.701
4.15979	49.67151	34.50693	17.49118	20.57633	0.10787	30413.77	0.00222	89.68769	0.496786	0.45612	7.157054	1711.691
4.341919	49.11532	34.54821	17.51292	20.78837	0.119831	33824.55	0.002508	89.85581	0.486256	0.443664	7.134436	1716.107
1.814938	49.6659	32.12568	17.50706	18.68684	0.033829	9566.823	0.003098	113.3996	0.597586	0.581853	7.342694	2003.717

ตารางที่ ค.89 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 50^{\circ}\text{C}$, $T_{w,in} = 17.5^{\circ}\text{C}$ และ $m_w = 0.33 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.114506	49.25213	32.02567	17.52435	18.89309	0.045245	12822.86	0.003011	113.4964	0.598627	0.580388	7.320129	2007.933
2.4294	49.55399	32.54456	17.52304	19.09271	0.058438	16549.69	0.00271	113.6413	0.563269	0.529868	7.300206	2012.085
2.645827	49.39235	33.201	17.5095	19.21072	0.070456	19949.28	0.002515	113.6366	0.543771	0.509557	7.289747	2013.7
2.844565	48.63668	33.26709	17.49576	19.32658	0.083597	23710.67	0.002455	113.6739	0.544992	0.515543	7.279547	2015.579
3.177126	49.07643	33.94014	17.49143	19.53909	0.093343	26432.9	0.002402	113.7948	0.538469	0.514061	7.258827	2019.729
3.430578	49.21635	34.47049	17.52069	19.73155	0.107753	30480.43	0.002195	113.9606	0.505605	0.468544	7.236866	2024.407
3.574947	48.93804	34.45501	17.54745	19.88214	0.118503	33542.26	0.002514	114.0851	0.494615	0.449854	7.219379	2028.096
1.625916	49.49302	32.52257	17.51555	18.45937	0.03363	9530.168	0.0033	125.5434	0.628708	0.638573	7.364911	2235.819

ตารางที่ ค.90 แสดงผลการทดลองและผลการคำนวณภายใต้สภาวะผิวเปียก ที่ $T_{a,in} = 50^{\circ}\text{C}$, $T_{w,in} = 17.5^{\circ}\text{C}$ และ $m_w = 0.37 \text{ kg/s}$

Q_{ave} (kw)	$T_{air,in}$ ($^{\circ}\text{C}$)	$T_{air,out}$ ($^{\circ}\text{C}$)	$T_{w,in}$ ($^{\circ}\text{C}$)	$T_{w,out}$ ($^{\circ}\text{C}$)	m_{air} (kg/s)	Re_{air}	j	Nu	ϵ_h	ϵ_w	Pr_{water}	De_{ave}
2.118867	49.72204	32.58537	17.51828	18.73657	0.04553	12896.58	0.003151	125.7391	0.618882	0.619542	7.33653	2242.169
2.413428	49.11419	32.9876	17.51461	18.90238	0.05774	16365.43	0.002907	125.8715	0.592992	0.590655	7.320174	2245.98
2.793829	49.56167	33.64864	17.54375	19.15225	0.070546	19960.23	0.002657	126.0531	0.560102	0.545213	7.29217	2252.215
2.985868	49.56306	34.20027	17.50942	19.2362	0.083604	23634.63	0.002341	126.0166	0.515391	0.482545	7.287208	2252.828
3.400553	49.68223	34.52302	17.50252	19.44637	0.093674	26461.31	0.002348	126.1453	0.521602	0.496984	7.26694	2257.356
3.531714	49.11533	34.48376	17.52469	19.54399	0.107945	30524.08	0.002167	126.1661	0.496299	0.458712	7.255039	2259.629
3.723966	49.09461	34.76457	17.49625	19.64489	0.118578	33523.97	0.002514	126.1806	0.485003	0.444615	7.247856	2261.019
3.885277	44.74687	31.44641	17.49701	19.73584	0.119878	34225.61	0.0025	126.427	0.522682	0.481705	7.238782	2264.404