

# TABLE 1: COOLING COIL CAPACITY



Model KK	Water Flowrate (m <sup>3</sup> /h)	Chilled Water Coil									DX Coil	
		3 Row Coil			4 Row Coil			6 Row Coil			4 Row Coil	
		Water Pressure Drop (kPa)	Total Cooling (kW)	Sensible Cooling (kW)	Water Pressure Drop (kPa)	Total Cooling (kW)	Sensible Cooling (kW)	Water Pressure Drop (kPa)	Total Cooling (kW)	Sensible Cooling (kW)	Total Cooling (kW)	Sensible Cooling (kW)
800	1.37	13.1	7.0	5.2	8.4	7.9	5.8	4.5	9.0	6.5	9.2	5.9
	1.80	21.5	7.6	5.5	13.4	8.6	6.1	7.2	9.9	6.9		
1200	1.37	15.8	9.8	7.6	3.9	10.2	8.1	1.8	11.6	8.9	13.8	8.9
	2.05	32.0	11.2	8.1	7.8	11.8	8.7	3.6	13.6	9.7		
1600	2.27	9.3	13.1	10.1	6.0	14.7	11.2	2.7	16.9	12.5	18.8	12.2
	2.74	12.5	14.0	10.4	8.4	15.7	11.6	3.6	18.1	13.0		
2000	2.95	16.1	17.3	13.0	10.8	19.5	14.5	4.8	22.4	16.1	24.2	15.4
	3.64	23.0	18.5	13.5	15.2	20.8	15.0	6.6	24.0	16.8		
3000	4.10	12.3	24.8	19.0	14.6	29.3	21.7	3.3	32.0	23.5	32.6	21.7
	5.22	18.8	26.9	19.9	22.4	31.7	22.7	5.1	34.9	24.7		
4000	4.75	18.2	33.1	25.4	3.9	34.5	27.2	5.1	42.6	31.4	46.7	30.1
	6.12	28.1	36.1	26.6	6.0	37.9	28.4	7.8	46.7	33.0		

Notes: 1. Water cooling coil rated at 27°C/19°C entering air, 7°C entering water at nominal cfm.  
 2. DX cooling coils rated at 27°C/19°C entering air, 4°C S.S.T. at nominal cfm, R22.  
 3. For other conditions contact ODYNE® for computer selection.

## TABLE 2: AIR VOLUME CAPACITY CORRECTION FACTORS

	Coil Type	Percent (%) Nominal cfm					
		70	80	90	100	110	120
Total Factor	Chilled Water 3 Row	0.90	0.94	0.97	1.00	1.03	1.05
	Chilled Water 4 Row	0.89	0.93	0.97	1.00	1.03	1.06
	Chilled Water 6 Row	0.88	0.92	0.96	1.00	1.04	1.07
	DX 4 Row	0.90	0.94	0.97	1.00	1.03	1.05
Depression Ratio	Chilled Water 3 Row	0.16	0.18	0.20	0.22	0.24	0.25
	Chilled Water 4 Row	0.09	0.10	0.12	0.13	0.14	0.15
	Chilled Water 6 Row	0.03	0.04	0.04	0.05	0.05	0.06
	DX 4 Row	0.13	0.15	0.16	0.18	0.20	0.21

## TABLE 3: TOTAL CAPACITY CORRECTION FACTORS

ENT*G W.B.(°F)	DX Coil						Chilled Water Coil						
	Saturated Suction Temperature °C						Entering Water Temperature °C						
	2	3	4	6	7	8	4	6	6.6	7.2	8	9	10
17	0.94	0.87	0.80	0.74	0.67	0.60	0.95	0.89	0.82	0.78	0.75	0.67	0.61
18	1.04	0.97	0.90	0.84	0.77	0.70	1.06	0.99	0.92	0.89	0.85	0.78	0.70
19	1.14	1.07	1.00	0.94	0.87	0.80	1.18	1.11	1.04	1.00	0.96	0.88	0.79
21	1.24	1.17	1.10	1.04	0.97	0.90	1.30	1.22	1.15	1.12	1.08	1.00	0.91
22	1.34	1.27	1.20	1.14	1.07	1.00	1.42	1.35	1.28	1.24	1.20	1.11	1.00

## TABLE 4: APPROXIMATE SHIPPING WEIGHTS – lbs[kg]\*

Rows Of Coil	Model					
	KK800	KK1200	KK1600	KK2000	KK3000	KK4000
3	220 [100]	260 [118]	310 [141]	353 [160]	412 [187]	535 [243]
4	230 [104]	270 [122]	320 [145]	360 [163]	424 [192]	545 [247]
6	250 [113]	290 [132]	350 [159]	373 [169]	467 [212]	565 [256]

\*Includes motor

# TABLE 5: BLOWER PERFORMANCE



## Available External Static Pressure (in.wg) For 4-Row Coil

RPM	cfm										Fan Model
	ESP	BHP	ESP	BHP	ESP	BHP	ESP	BHP	ESP	BHP	
<b>KK800</b>											
	700		750		800		850		900		9/7
800	0.08	0.12	0.02	0.14	-	-	-	-	-	-	
900	0.22	0.15	0.18	0.16	0.14	0.18	0.10	0.19	0.04	0.21	
1000	0.34	0.19	0.32	0.20	0.30	0.22	0.28	0.23	0.23	0.24	
1100	0.48	0.23	0.46	0.24	0.45	0.26	0.45	0.28	0.42	0.30	
<b>KK1200</b>											
	1000		1100		1200		1300		1400		9/7
1000	0.47	0.28	0.38	0.32	0.31	0.36	0.21	0.40	0.09	0.46	
1100	0.68	0.34	0.60	0.38	0.53	0.43	0.44	0.47	0.34	0.52	
1200	0.89	0.39	0.83	0.44	0.77	0.50	0.69	0.55	0.59	0.59	
1300	1.08	0.46	1.06	0.51	1.03	0.56	0.94	0.63	0.86	0.68	
<b>KK1600</b>											
	1400		1500		1600		1700		1800		10/10
900	0.42	0.39	0.38	0.43	0.33	0.47	0.28	0.50	0.21	0.54	
1000	0.60	0.48	0.58	0.51	0.55	0.55	0.52	0.59	0.46	0.64	
1100	0.79	0.58	0.77	0.62	0.76	0.66	0.75	0.70	0.71	0.75	
1200	0.99	0.68	0.97	0.74	0.97	0.79	0.97	0.83	0.95	0.87	
<b>KK2000</b>											
	1600		1800		2000		2100		2200		10/10
1000	0.70	0.55	0.64	0.64	0.54	0.73	0.49	0.79	0.43	0.86	
1100	0.91	0.66	0.89	0.75	0.82	0.87	0.77	0.93	0.70	0.97	
1200	1.12	0.79	1.13	0.87	1.10	1.01	1.07	1.09	1.01	1.14	
1300	1.34	0.91	1.37	1.05	1.37	1.14	1.35	1.21	1.32	1.30	
<b>KK3000</b>											
	2600		2800		3000		3200		3400		12/12
900	0.75	1.01	0.70	1.11	0.64	1.21	0.57	1.31	0.51	1.45	
1000	0.99	1.21	0.98	1.32	0.96	1.45	0.91	1.58	0.83	1.70	
1100	1.21	1.42	1.23	1.56	1.25	1.70	1.24	1.85	1.19	2.00	
1200	1.45	1.68	1.48	1.84	1.51	1.97	1.54	2.15	1.54	2.32	
<b>KK4000</b>											
	3200		3600		4000		4400		4600		12/12
1000	1.11	1.58	1.00	1.85	0.91	2.16	0.78	2.51	0.70	2.68	
1100	1.44	1.85	1.36	2.16	1.23	2.87	1.14	2.87	1.08	3.07	
1200	1.74	2.15	1.75	2.51	1.66	2.87	1.53	3.27	1.48	3.49	
1300	2.01	2.47	2.09	2.85	2.09	3.30	1.96	3.73	1.90	3.95	

Notes: 1.) Values based on four row wet coil and standard washable filter.  
 2.) For each additional row of wet coil, add 0.05 SP.

## TABLE 6: COMPONENT PRESSURE DROP (in.wg) AT VARYING cfm

Model	Face Area	Component	Component Resistance Inches Water				
		cfm	600	700	800*	900	950
KK800	1.67 ft <sup>2</sup>	Unit and Filter	0.07	0.09	0.11	0.13	0.14
		Supply Plenum	0.01	0.01	0.02	0.03	0.03
		Return Grille	0.02	0.03	0.04	0.05	0.06
		cfm	1000	1100	1200*	1300	1400
KK1200	2.50 ft <sup>2</sup>	Unit and Filter	0.14	0.17	0.19	0.22	0.24
		Supply Plenum	0.03	0.04	0.05	0.06	0.07
		Return Grille	0.03	0.04	0.05	0.06	0.07
		cfm	1400	1500	1600*	1700	1800
KK1600	3.33 ft <sup>2</sup>	Unit and Filter	0.08	0.11	0.15	0.21	0.26
		Supply Plenum	0.03	0.04	0.04	0.04	0.05
		Return Grille	0.03	0.04	0.04	0.04	0.05
		cfm	1600	1800	2000*	2100	2200
KK2000	4.17 ft <sup>2</sup>	Unit and Filter	0.15	0.19	0.24	0.3	0.36
		Supply Plenum	0.04	0.05	0.06	0.07	0.09
		Return Grille	0.03	0.04	0.05	0.06	0.07
		cfm	2600	2800	3000*	3200	3400
KK3000	6.25 ft <sup>2</sup>	Unit and Filter	0.12	0.14	0.16	0.18	0.2
		Supply Plenum	0.04	0.05	0.06	0.07	0.08
		Return Grille	0.04	0.04	0.05	0.06	0.06
		cfm	3200	3600	4000*	4400	4600
KK4000	8.33 ft <sup>2</sup>	Unit and Filter	0.08	0.11	0.15	0.21	0.26
		Supply Plenum	0.01	0.02	0.02	0.02	0.03
		Return Grille	0.03	0.04	0.05	0.06	0.07

\* NOMINAL cfm