Compax 2 – Compax System Capabilities

Water Loop

MODEL NO. CMX_ _ _		175
Cooling Capacity – Rated at ISO 13256-2 Conditions		
TOTAL	BTU/hr	137356
THR	BTU/hr	167992
EER		15.3
Evaporator		
EWT	°F	53.6
LWT	°F	42.6
Flow Rate	GPM	25.0
Pressure Drop	ft	13.2
Condenser		
EWT	°F	86.0
LWT	°F	99.4
Flow Rate	GPM	25.0
Pressure Drop	ft	13.2
Heating Capacity – Rated at ISO 13256-2 Conditions		
TOTAL	BTU/hr	190268
COP		4.8
Evaporator		
EWT	°F	68.0
LWT	°F	55.9
Flow Rate	GPM	25.0
Pressure Drop	ft	13.2
Condenser		
EWT	°F	104.0
LWT	°F	119.2
Flow Rate	GPM	25.0
Pressure Drop	ft	13.2

Ground Loop

Compax

Compax 2 – Compax System Capabilities

MODEL NO. CMX_ _ _		175
Cooling Capacity – Rated at ISO 13256-2 Conditions		
TOTAL	BTU/hr	142569
THR	BTU/hr	170382
EER		17.5
Evaporator		
EWT	°F	53.6
LWT	°F	42.2
Flow Rate	GPM	25.0
Pressure Drop	ft	13.2
Condenser Selected with 15 % Ethylene Glycol		
EWT	°F	77.0
LWT	°F	91.1
Flow Rate	GPM	25.0
Pressure Drop	ft	13.7
Heating Capacity – Rated at ISO 13256-2 Conditions		
TOTAL	BTU/hr	127192
COP		3.5
Evaporator Selected with 15 % Ethylene Glycol		
EWT	°F	32.0
LWT	°F	24.5
Flow Rate	GPM	25.0
Pressure Drop	ft	13.7
Condenser		
EWT	°F	104.0
LWT	°F	114.2
Flow Rate	GPM	25.0
Pressure Drop	ft	13.2

Electrical Information

Compax

Compax 2 – Compax System Capabilities

Electrical Information

MODEL NO. CMS/M_ _ _	175
208/1/60	
RLA	-
MCA	-
MOP	-
208/3/60	
RLA	48.0
MCA	60.1
MOP	100.0
460/3/60	
RLA	19.0
MCA	23.2
MOP	40.0
575/3/60	
RLA	15.0
MCA	18.4
MOP	30.0

Series	Compax Size 2	
Compressor	Type	Scroll
Compressor	Quantity	1

Compax 2 – Compax System Capabilities

CMS175 - Non Reversing Unit

25 USGPM Condenser Flow

25 USGPM Evaporator Flow

Leaving Water Temperature of Source and/or Evaporator (Use Cooling Btu/h)

Leaving Water Temperature of Heating Load or Condenser Water (Use Heating Btu/h)

LWT °F	25°	30°	35°	40°	45°	50°	55°
80°	Cooling	123,397	134,172	145,560	157,572	170,218	183,505
	Heating	147,288	158,279	169,903	182,174	195,102	208,696
	Watts	7,000	7,063	7,133	7,208	7,291	7,381
90°	107,578	117,402	127,786	138,746	150,296	162,449	175,214
	134,195	144,192	154,768	165,942	177,729	190,144	203,197
	7,799	7,849	7,906	7,968	8,038	8,115	8,199
100°	101,684	111,178	121,191	131,741	142,845	154,518	166,772
	131,673	141,312	151,490	162,227	173,543	185,455	197,975
	8,787	8,829	8,878	8,932	8,995	9,064	9,142
110°	95,409	104,596	114,259	124,419	135,094	146,304	158,061
	129,283	138,582	148,379	158,696	169,555	180,976	192,974
	9,925	9,958	9,997	10,043	10,097	10,159	10,229
120°	88,625	97,529	106,864	116,653	126,920	137,682	148,958
	126,955	135,936	145,370	155,284	165,702	176,644	188,132
	11,231	11,253	11,282	11,319	11,363	11,416	11,478
130°	81,202	89,846	98,876	108,318	118,194	128,528	139,340
	124,623	133,305	142,396	151,925	161,917	172,397	183,386
	12,722	12,733	12,751	12,777	12,811	12,853	12,905
140°	73,013	81,422	90,170	99,285	108,792	118,716	129,080
	122,218	130,622	139,389	148,550	158,133	168,165	178,670
	14,417	14,415	14,421	14,435	14,457	14,488	14,530

Glycol Required

$$BTU/hr = 500 * GPM * \Delta T(°\mathrm{F})$$

$$EWT = LWT - \left[\frac{BTU/hr}{500 * GPM}\right]$$

Compax

Compax 2 – Compax System Capabilities

CMM175 - Reversing Unit

25 USGPM Condenser Flow

25 USGPM Evaporator Flow

Leaving Water Temperature of Source and/or Evaporator
(Use Cooling Btu/h)

Leaving Water Temperature of Heating Load or Condenser Water (Use Heating Btu/h)

LWT °F		25°	30°	35°	40°	45°	50°	55°
80°	Cooling	122,353	133,067	144,393	156,343	168,925	182,148	
	Heating	146,223	157,151	168,712	180,917	193,779	207,306	
	Watts	6,994	7,057	7,125	7,200	7,282	7,371	
90°		106,626	116,395	126,722	137,624	149,114	161,206	173,909
		133,227	143,167	153,684	164,797	176,523	188,874	201,862
		7,794	7,844	7,900	7,962	8,031	8,107	8,190
100°		100,762	110,205	120,165	130,661	141,709	153,325	165,520
		130,738	140,324	150,447	161,128	172,385	184,236	196,695
		8,783	8,825	8,872	8,927	8,988	9,057	9,134
110°		94,516	103,657	113,271	123,380	134,003	145,158	156,861
		128,379	137,630	147,376	157,640	168,445	179,808	191,748
		9,922	9,954	9,993	10,038	10,091	10,152	10,222
120°		87,757	96,619	105,910	115,653	125,871	136,583	147,807
		126,081	135,018	144,406	154,271	164,637	175,526	186,958
		11,229	11,251	11,279	11,315	11,358	11,410	11,471
130°		80,357	88,965	97,955	107,354	117,186	127,474	138,236
		123,776	132,419	141,468	150,952	160,896	171,326	182,263
		12,722	12,732	12,749	12,774	12,807	12,849	12,900
140°		72,189	80,566	89,279	98,356	107,823	117,705	128,023
		121,396	129,766	138,495	147,616	157,155	167,141	177,597
		14,418	14,415	14,420	14,433	14,454	14,485	14,525

Glycol Required

$$BTU/hr = 500 * GPM * \Delta T(°\mathrm{F})$$

$$EWT = LWT - \left[\frac{BTU/hr}{500 * GPM}\right]$$

Compax