

**DESIGN CONDITIONS (INPUTS)**

Item/Description		DXM 1-1	DXM 1-2	DXM 1-3	DXM 1-4	DXM 2-1
Entering db	°F	95	95	95	95	95
Entering wb	°F	78	78	78	78	78
Air flow	cfm	1,000 (Std.)	1,500 (Std.)	3,000 (Std.)	3,000 (Std.)	1,500 (Std.)
Altitude	ft	0	0	0	0	0
Abs. pressure	psi	0	0	0	0	0
Air flow orientation		Normal	Normal	Normal	Normal	Normal
Refrigerant		R-410A	R-410A	R-410A	R-410A	R-410A
Circulation ratio		1	1	1	1	1
Liquid temp.	°F	110	110	110		110
Evaporating temp.	°F	45	45	45	45	45
Flow pattern		Counter	Counter	Counter	Counter	Counter
Superheat	δ°F	8	10	10	8	8

**CONSTRUCTION (INPUTS)**

Coil Code		8	10	10	8	8
Locale		0 - US, Grenada	0 - US, Grenada	0 - US, Grenada	0 - US, Grenada	0 - US, Grenada
Tube OD	in	40976	40910	40910	40976	40976
Tube pattern	in	1.250 x 1.083	1.500 x 1.299	1.500 x 1.299	1.250 x 1.083	1.250 x 1.083
Fin style		Sine Wave	Sine Wave	Sine Wave	Sine Wave	Sine Wave
Fin spacing	/in	8	8	9	13	12
Rows		2	2	3	3	1
Fin height	in	31.25	31	31	31.25	37
Finned length	in	27	27	27	27	36
Coils in bank		1	1	1	1	1
Tube wall	in	0.013	0.016	0.016	0.013	0.013
Fin coating		None	None	None	None	None
Header OD Out	in	1.00 5/8	1.00 5/8	1.00 5/8	1.00 5/8	1.00 5/8
Conn. OD Out	in	1.00 5/8	1.00 5/8	1.00 5/8	1.00 5/8	1.00 5/8
Circuits		5	3	6	9	5

**CALCULATIONS**

Model		3EZ0802H-31.25x27.00	4EZ0802H-31.50x27.00	4EZ0903H-31.50x27.00	3EZ1303H-31.25x27.00	3EZ1201H-37.50x36.00
Total capacity	Btu/hr	51,352	64,239	123,695	155,499	61,325
Sensible capacity	Btu/hr	29,242	38,834	80,048	95,627	36,628
Leaving db	°F	68.8	71.8	71.1	66.4	73.1
Leaving wb	°F	64.9	67.3	67.8	64.8	67.9
Face velocity	ft/min	171	254	508	512	160
Air pressure drop	in wg	0.025	0.074	0.405	0.423	0.022
Tubeside pd	psi	3.04	3.93	2.89	6.42	3.32
Refg. charge	oz	21	30	46	28	15
Refg. flow rate	lbm/hr	766	950	1,829	2,317	914
Vapor velocity	ft/min	1,454	1,666	1,611	2,412	1,734
Run Time		41134.35306	41134.35358	41134.35398	41134.35431	41134.35473

**DESIGN CONDITIONS (INPUTS)**

Item/Description		DXM 2-2	DXM 2-3	DXM 2-4	DXM 3-1	DXM 3-2
Entering db	°F	95	95	95	95	95
Entering wb	°F	78	78	78	78	78
Air flow	cfm	3,000 (Std.)	4,500 (Std.)	5,300 (Std.)	3,000 (Std.)	4,500 (Std.)
Altitude	ft	0	0	0	0	0
Abs. pressure	psi	0	0	0	0	0
Air flow orientation		Normal	Normal	Normal	Normal	Normal
Refrigerant		R-410A	R-410A	R-410A	R-410A	R-410A
Circulation ratio		1	1	1	1	1
Liquid temp.	°F	110	110	110	110	110
Evaporating temp.	°F	45	45	45	45	45
Flow pattern		Counter	Counter	Counter	Cross	Counter
Superheat	δ°F	10	10	8	8	10

**CONSTRUCTION (INPUTS)**

Coil Code		10	10	9	10	10
Locale		0 - US, Grenada	0 - US, Grenada	0 - US, Grenada	0 - US, Grenada	0 - US, Grenada
Tube OD	in	40910	40910	40910	40910	40910
Tube pattern	in	1.500 x 1.299	1.500 x 1.299	1.250 x 1.083	1.500 x 1.299	1.500 x 1.299
Fin style		Sine Wave	Sine Wave	Sine Wave	Sine Wave	Sine Wave
Fin spacing	/in	10	10	9	6	9
Rows		2	2	3	2	2
Fin height	in	37	37	37	43	43
Finned length	in	36	36	36	42	42
Coils in bank		1	1	1	1	1
Tube wall	in	0.016	0.016 Enhanced	0.016	0.016	0.016
Fin coating		None	None	None	None	None
Header OD Out	in	1.00 5/8	1.00 5/8	2.00 1/2	2	1.00 5/8
Conn. OD Out	in	1.00 5/8	1.00 5/8	2.00 1/8	1.00 5/8	1.00 5/8
Circuits		6	10	9	6	8

**CALCULATIONS**

Model		4EZ1002H-37.50x36.00	4EY1002H-37.50x36.00	4EZ0903C-37.50x36.00	4EZ0602H-43.50x42.00	4EZ0902H-43.50x42.00
Total capacity	Btu/hr	127,884	187,857	251,494	120,828	182,151
Sensible capacity	Btu/hr	80,036	114,300	150,501	70,176	112,449
Leaving db	°F	71.1	72.2	69.5	74	72.6
Leaving wb	°F	67.4	67.6	66	68	68
Face velocity	ft/min	320	480	565	236	355
Air pressure drop	in wg	0.142	0.293	0.455	0.052	0.155
Tubeside pd	psi	3.06	1.94	5.96	3.51	3.45
Refg. charge	oz	47	53	81	64	62
Refg. flow rate	lbm/hr	1,891	2,779	3,749	1,802	2,693
Vapor velocity	ft/min	1,665	1,476	2,173	1,583	1,776
Run Time		41134.35615	41134.35615	41134.35706	41134.35884	41134.35924

**DESIGN CONDITIONS (INPUTS)**

Item/Description		DXM 3-3	DXM 3-4	DXM 4-1	DXM 4-2	DXM 4-3
Entering db	°F	95	95	95	95	95
Entering wb	°F	78	78	78	78	78
Air flow	cfm	6,000 (Std.)	7,000 (Std.)	6,000 (Std.)	7,500 (Std.)	9,000 (Std.)
Altitude	ft	0	0	0	0	0
Abs. pressure	psi	0	0	0	0	0
Air flow orientation		Normal	Normal	Normal	Normal	Normal
Refrigerant		R-410A	R-410A	R-410A	R-410A	R-410A
Circulation ratio		1	1	1	1	1
Liquid temp.	°F	110	110	110	110	110
Evaporating temp.	°F	45	45	45	45	44.5
Flow pattern		Counter	Counter	Counter	Counter	Counter
Superheat	δ°F	10	10	10	10	10

**CONSTRUCTION (INPUTS)**

Coil Code		10	9	10	10	10
Locale		0 - US, Grenada	0 - US, Grenada	0 - US, Grenada	0 - US, Grenada	0 - US, Grenada
Tube OD	in	40910	40910	40910	40910	40910
Tube pattern	in	1.500 x 1.299	1.250 x 1.083	1.500 x 1.299	1.500 x 1.299	1.500 x 1.299
Fin style		Sine Wave	Sine Wave	Sine Wave	Sine Wave	Sine Wave
Fin spacing	/in	10	11	11	10	11
Rows		2	2	2	2	2
Fin height	in	43	43.75	52	52	52
Finned length	in	42	42	48	48	48
Coils in bank		1	1	1	1	1
Tube wall	in	0.016 Enhanced	0.016 Enhanced	0.016	0.016 Enhanced	0.016 Enhanced
Fin coating		None	None	None	None	None
Header OD Out	in	1.00 5/8	1.00 5/8	1.00 5/8	1.00 5/8	1.00 5/8
Conn. OD Out	in	1.00 5/8	1.00 5/8	1.00 5/8	1.00 5/8	1.00 5/8
Circuits		10	14	14	14	14

**CALCULATIONS**

Model		4EY1002H-43.50x42.00	4EY1102C-43.75x42.00	4EZ1102H-52.50x48.00	4EY1002H-52.50x48.00	4EY1102H-52.50x48.00
Total capacity	Btu/hr	253,621	313,026	249,890	311,076	359,353
Sensible capacity	Btu/hr	154,066	185,275	160,560	192,326	227,403
Leaving db	°F	72	71.3	71	72	72.3
Leaving wb	°F	67.5	66.8	67.7	67.7	68.1
Face velocity	ft/min	473	549	343	429	514
Air pressure drop	in wg	0.284	0.371	0.182	0.232	0.357
Tubeside pd	psi	4.07	3.16	1.96	3.27	4.26
Refr. charge	oz	68	83	88	95	93
Refr. flow rate	lbm/hr	3,745	4,630	3,693	4,600	5,318
Vapor velocity	ft/min	1,972	1,748	1,401	1,736	2,017
Run Time		41134.3598	41134.59887	41134.69117	41134.69235	41134.6933

DESIGN CONDITIONS (INPUTS)					
Item/Description		DXM 4-4	DXM 5-1	DXM 5-2	DXM 5-3
Entering db	°F	95	95	95	95
Entering wb	°F	78	78	78	78
Air flow	cfm	9,650 (Std.)	9,000 (Std.)	12,000 (Std.)	14,200 (Std.)
Altitude	ft	0	0	0	0
Abs. pressure	psi	0	0	0	0
Air flow orientation		Normal	Normal	Normal	Normal
Refrigerant		R-410A	R-410A	R-410A	R-410A
Circulation ratio		1	1	1	1
Liquid temp.	°F	110	110	110	110
Evaporating temp.	°F	45	45	45	45
Flow pattern		Counter	Counter	Counter	Counter
Superheat	δ°F	10	10	8	10
CONSTRUCTION (INPUTS)					
Coil Code		10	10	10	10
Locale		0 - US, Grenada	0 - US, Grenada	0 - US, Grenada	0 - US, Grenada
Tube OD	in	40910	40910	40910	40910
Tube pattern	in	1.500 x 1.299	1.500 x 1.299	1.500 x 1.299	1.500 x 1.299
Fin style		Sine Wave	Sine Wave	Sine Wave	Sine Wave
Fin spacing	/in	11	10	13	10
Rows		3	2	2	3
Fin height	in	52	55	55	55
Finned length	in	48	67	67	67
Coils in bank		1	1	1	1
Tube wall	in	0.016 Enhanced	0.016	0.016	0.016
Fin coating		None	None	None	None
Header OD Out	in	2.00 1/8	2.00 1/8	1.00 5/8	1.00 5/8
Conn. OD Out	in	1.00 5/8	1.00 5/8	1.00 5/8	1.00 5/8
Circuits		16	14	18	24
CALCULATIONS					
Model		4EY1103H- 52.50x48.00	4EZ1002H- 55.50x67.00	4EZ1302H- 55.50x67.00	4EZ1003H- 55.50x67.00
Total capacity	Btu/hr	490,106	371,478	482,804	598,342
Sensible capacity	Btu/hr	299,259	234,224	320,220	389,708
Leaving db	°F	67.2	71.7	71.1	70.4
Leaving wb	°F	65.1	67.8	68.1	67.5
Face velocity	ft/min	551	349	465	550
Air pressure drop	in wg	0.577	0.164	0.383	0.522
Tubeside pd	psi	7.25	5.11	4.56	4.94
Refg. charge	oz	137	120	120	181
Refg. flow rate	lbm/hr	7,251	5,492	7,193	8,844
Vapor velocity	ft/min	2,359	2,058	2,105	1,941
Run Time		41134.69392	41134.69462	41134.69532	41134.71374