



END4X, ENW4X, ENA4X

Product Specifications

VERTICAL EVAPORATOR COILS

ALL N COIL MODELS

- 1½ thru 5 Tons
- Available for environmentally sound R-410A systems
- Bolt-on TXV metering device factory installed on all models (equalizer tube brazed in)
- Two condensate drain connections
- Aluminum main tubing and aluminum fins (copper stubs for field connection)

CASED N COILS

- Removable front access panel
- Hemmed flanges for safer handling
- Foil faced insulation
- Non-sweat cabinet, even at extreme conditions
- Cabinets meet or exceed 2% air leakage codes
- Sturdy, pre-painted steel cabinet

END4X

- Upflow or downflow installation (cased use only)
- Compact design, shorter than comparable A-coils
- Cabinet widths match flush with ICP 14-3/16", 17-1/2", 21" and 24-1/2" gas furnace cabinets (field fabricated transitions required to match other ICP furnace models)

ENW4X

- Upflow or downflow installation (cased use only)
- Drainpan raised 2" (51mm) and block-off plate factory installed — for installing wider coil on narrower furnace

UNCASED N COILS

ENA4X

- Upflow or downflow installation (plenum use only)

WARRANTY*

- 5 year parts limited warranty
 - With timely registration, an additional 5 year parts limited warranty

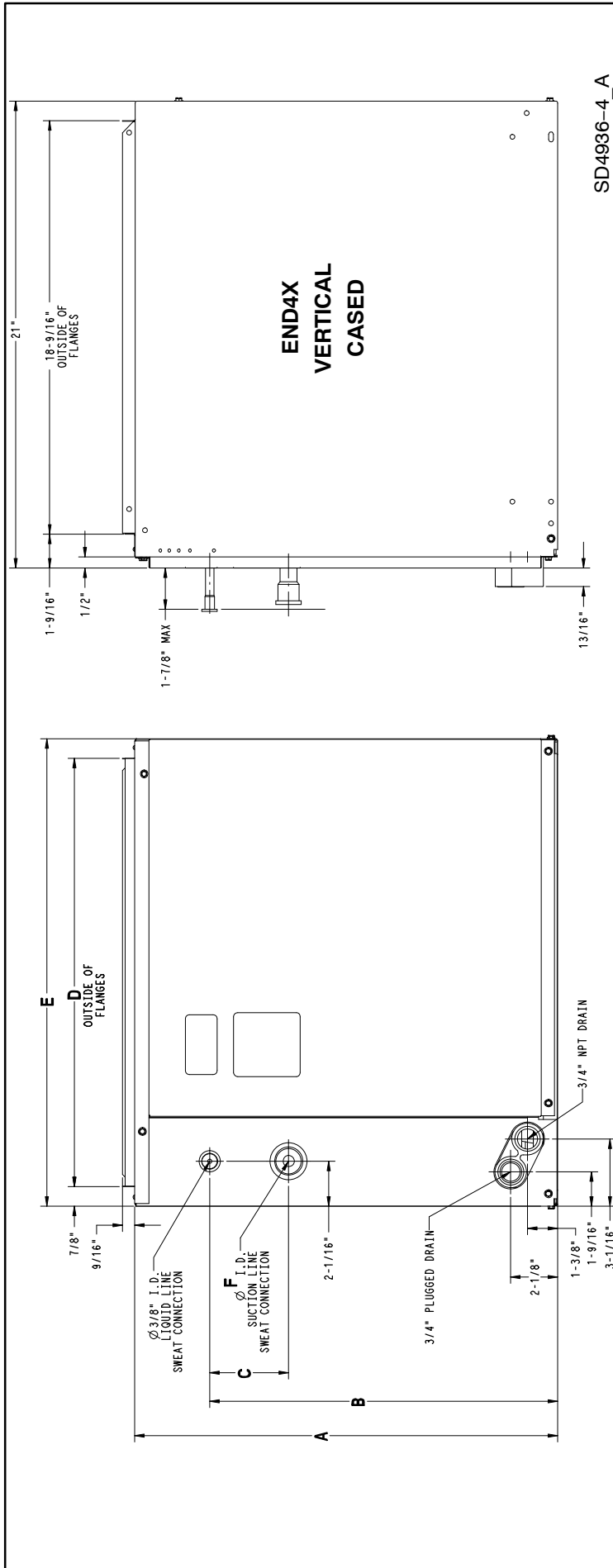
* For owner occupied, residential applications only. See warranty certificate for complete details and restrictions, including warranty coverage for other applications.



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org.



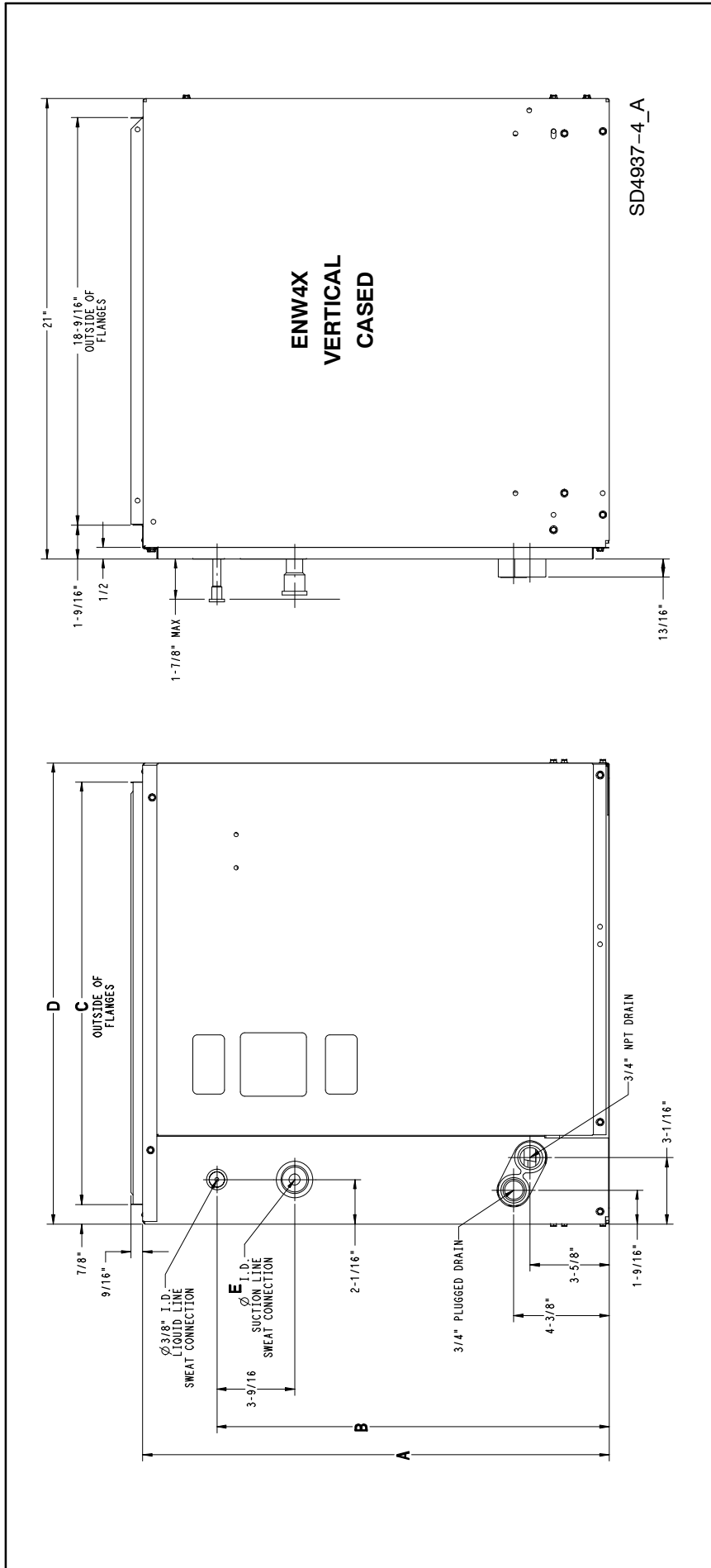
COIL MODEL NUMBER IDENTIFICATION GUIDE										
Digit Position	1	2	3	4	5	6,7	8	9,10	11	12
	E	N	D	4	X	18	L	14	A	1
E = Evaporator		TYPE								
B = Builder D = Standard N = N Coil										
A = Uncased D = Cased Upflow/Downflow M = Cased Multiposition (Upflow/Downflow/Horizontal) W = Cased Upflow/Downflow for narrower furnaces H = Cased Horizontal		INSTALLATION								
4 = Environmentally Sound R-410A			REFRIGERANT							
P = Piston X = TXV		METERING DEVICE								
18 = 18,000 BTUH = 1½ tons 19 = 18,000 BTUH = 1½ tons 24 = 24,000 BTUH = 2 tons 30 = 30,000 BTUH = 2½ tons 31 = 30,000 BTUH = 2½ tons 36 = 36,000 BTUH = 3 tons 37 = 36,000 BTUH = 3 tons 42 = 42,000 BTUH = 3½ tons 43 = 42,000 BTUH = 3½ tons 48 = 48,000 BTUH = 4 tons 60 = 60,000 BTUH = 5 tons 61 = 60,000 BTUH = 5 tons				NOMINAL CAPACITY						
L = Aluminum		HAIRPIN MATERIAL								
14 = 14-3/16" 17 = 17-1/2" 21 = 21" 24 = 24-1/2"		WIDTH								
Sales Digit (Major Revision)										
Engineering Digit (Minor Revision)										



SD4936-4_A

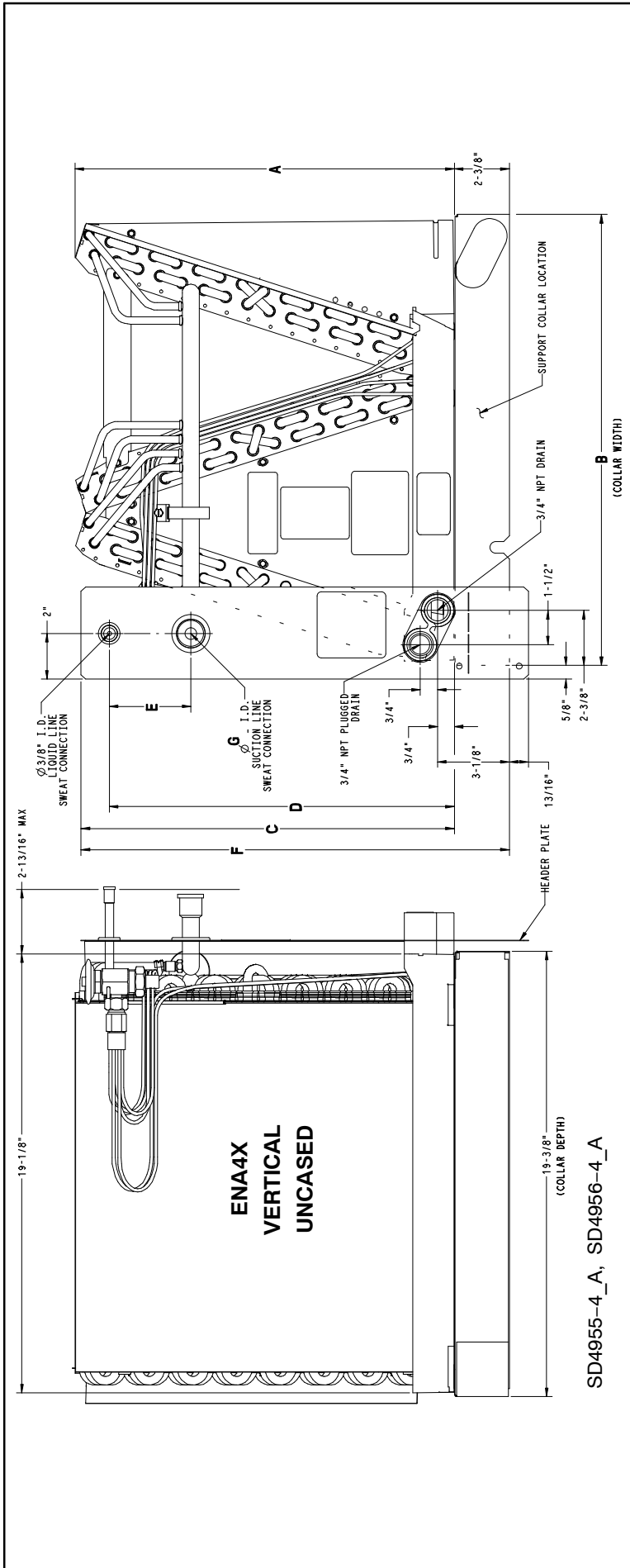
DIMENSIONAL DATA — END4X

Model	Size (tons)	Inches - English (MM - SI Metric)						Shipping Weight	
		A	B	C	D	E	F	lbs (kg)	Aluminum
END4X18L14	1-1/2	12-5/8 (321)	10-1/16 (256)	5-5/16 (135)	12-1/2 (318)	14-3/16 (360)	5/8 (16)	36 (16)	
END4X19L17	1-1/2	17 (432)	13-7/8 (352)	3-9/16 (91)	15-3/4 (400)	17-1/2 (445)	3/4 (19)	35 (16)	
END4X24L14	2	14-5/8 (372)	12-1/16 (306)	5-5/16 (135)	12-1/2 (318)	14-3/16 (360)	5/8 (16)	40 (18)	
END4X24L17	2	14-5/8 (372)	10-1/16 (256)	3-9/16 (91)	15-3/4 (400)	17-1/2 (445)	5/8 (16)	40 (18)	
END4X30L14	2-1/2	17 (432)	13-5/8 (346)	5-5/16 (135)	12-1/2 (318)	14-3/16 (360)	3/4 (19)	47 (21)	
END4X30L17	2-1/2	17 (432)	13-7/8 (352)	3-9/16 (91)	15-3/4 (400)	17-1/2 (445)	3/4 (19)	47 (21)	
END4X31L17	2-1/2	23-1/4 (591)	17-1/2 (445)	3-9/16 (91)	15-3/4 (400)	17-1/2 (445)	3/4 (19)	46 (21)	
END4X36L17	3	17 (432)	13-7/8 (352)	3-9/16 (91)	15-3/4 (400)	17-1/2 (445)	3/4 (19)	49 (22)	
END4X36L21	3	17 (432)	13-9/16 (345)	3-9/16 (91)	19-1/4 (489)	21 (533)	3/4 (19)	48 (22)	
END4X37L17	3	27-3/16 (691)	17-1/2 (445)	3-9/16 (91)	15-3/4 (400)	17-1/2 (445)	7/8 (22)	45 (21)	
END4X42L17	3-1/2	21-1/8 (537)	13-7/8 (352)	3-9/16 (91)	15-3/4 (400)	17-1/2 (445)	7/8 (22)	52 (24)	
END4X42L21	3-1/2	19 (483)	15-5/8 (397)	3-9/16 (91)	19-1/4 (489)	21 (533)	7/8 (22)	57 (26)	
END4X43L24	3-1/2	26-5/16 (669)	17-15/16 (456)	3-9/16 (91)	22-3/4 (578)	24-1/2 (622)	7/8 (22)	58 (26)	
END4X48L21	4	22-1/16 (560)	17-1/2 (445)	3-9/16 (91)	19-1/4 (489)	21 (533)	7/8 (22)	66 (30)	
END4X48L24	4	22-1/16 (560)	17-1/4 (438)	3-9/16 (91)	22-3/4 (578)	24-1/2 (622)	7/8 (22)	62 (28)	
END4X60L24	5	26-7/8 (683)	17-15/16 (456)	3-9/16 (91)	22-3/4 (578)	24-1/2 (622)	7/8 (22)	78 (35)	
END4X61L24	5	32-7/16 (824)	17-15/16 (456)	3-9/16 (91)	22-3/4 (578)	24-1/2 (622)	7/8 (22)	84 (38)	



DIMENSIONAL DATA — ENW4X

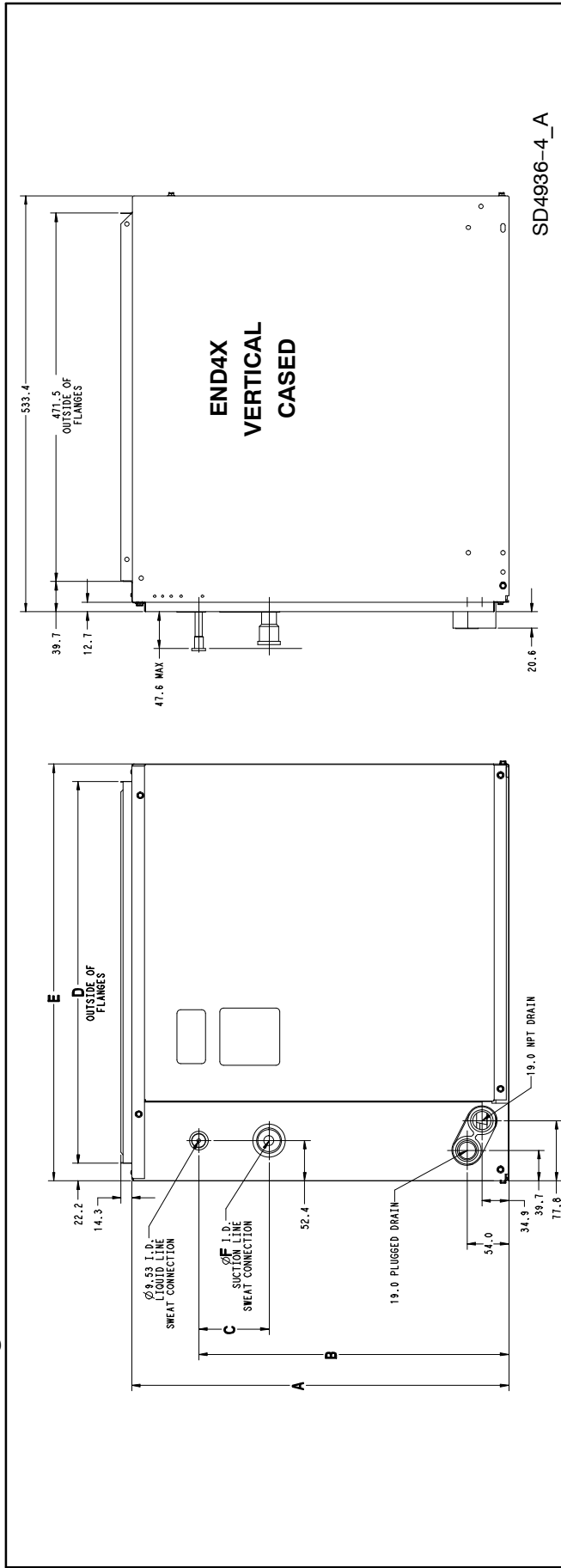
Model	Size (tons)	Inches – English (MM – SI Metric)					Shipping Weight lbs (kg)
		A	B	C	D	E	
ENW4X36L17	3	19-13/16 (503)	16-1/8 (410)	15-3/4 (400)	17-1/2 (445)	3/4 (19)	49 (22)
ENW4X42L21	3-1/2	21-13/16 (554)	17-7/8 (454)	19-1/4 (489)	21 (533)	7/8 (22)	62 (28)
ENW4X48L21	4	24-7/8 (632)	19-3/4 (502)	19-1/4 (489)	21 (533)	7/8 (22)	71 (32)
ENW4X60L24	5	29-1/8 (740)	20-3/16 (513)	22-3/4 (578)	24-1/2 (622)	7/8 (22)	78 (35)



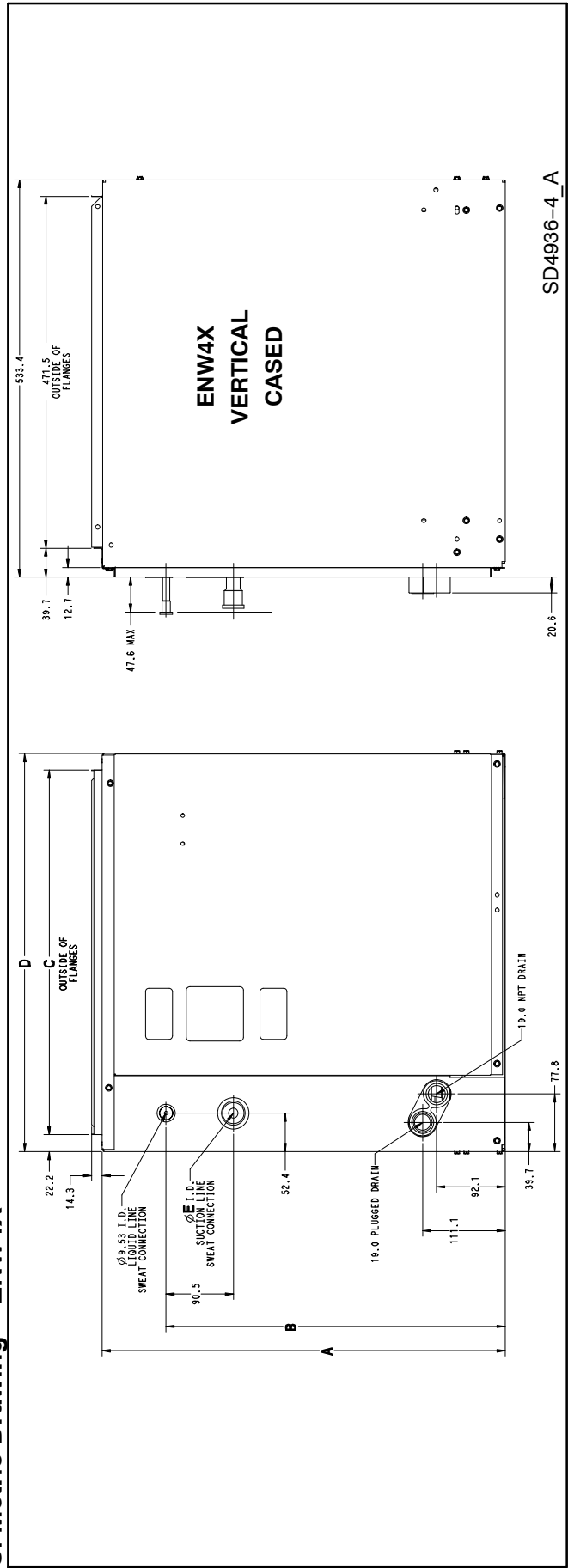
DIMENSIONAL DATA — ENA4X

Model	Size (tons)	Inches – English (MM – SI Metric)							Shipping Weight lbs (kg)
		A	B (Collar Width)	C	D	E	F	G	
ENA4X18L14	1-1/2	10-7/8 (276)	12-7/8 (327)	10-5/8 (270)	9-3/8 (238)	5-5/16 (135)	13 (330)	5/8 (16)	17 (8)
ENA4X19L17	1-1/2	14-11/16 (373)	16-1/4 (413)	14-1/2 (369)	13-1/4 (337)	3-9/16 (91)	16-15/16 (429)	3/4 (19)	25 (11)
ENA4X24L14	2	12-7/8 (327)	12-7/8 (327)	12-5/8 (321)	11-7/16 (291)	5-5/16 (135)	15 (381)	5/8 (16)	21 (10)
ENA4X24L17	2	12-11/16 (322)	16-1/4 (413)	10-5/8 (270)	9-3/8 (238)	3-9/16 (91)	13 (330)	5/8 (16)	22 (10)
ENA4X30L14	2-1/2	14-7/8 (378)	12-7/8 (327)	14-3/16 (360)	13 (330)	5-5/16 (135)	16-9/16 (421)	3/4 (19)	23 (10)
ENA4X30L17	2-1/2	14-11/16 (373)	16-1/4 (413)	14-7/16 (367)	13-1/4 (337)	3-9/16 (91)	16-13/16 (427)	3/4 (19)	24 (11)
ENA4X31L17	2-1/2	20-3/4 (527)	16-1/4 (413)	18-1/16 (459)	16-13/16 (427)	3-9/16 (91)	20-7/16 (519)	3/4 (19)	31 (14)
ENA4X36L17	3	14-11/16 (373)	16-1/4 (413)	14-7/16 (367)	13-1/4 (337)	3-9/16 (91)	16-13/16 (427)	3/4 (19)	26 (12)
ENA4X36L21	3	14-7/16 (367)	19-5/8 (499)	14-7/16 (367)	12-15/16 (329)	3-9/16 (91)	16-5/8 (422)	3/4 (19)	27 (12)
ENA4X37L17	3	24-3/4 (629)	16-1/4 (413)	18-1/16 (459)	16-13/16 (427)	3-9/16 (91)	20-7/16 (519)	7/8 (22)	33 (14)
ENA4X42L21	3-1/2	16-1/2 (419)	19-5/8 (499)	16-3/16 (411)	15 (381)	3-9/16 (91)	18-9/16 (472)	7/8 (22)	29 (13)
ENA4X43L24	3-1/2	24-3/8 (619)	23-1/8 (587)	18-9/16 (472)	17-5/16 (440)	3-9/16 (91)	20-15/16 (532)	7/8 (22)	36 (16)
ENA4X48L21	4	20-9/16 (522)	19-5/8 (499)	18-1/16 (459)	16-7/8 (429)	3-9/16 (91)	20-7/16 (519)	7/8 (22)	33 (15)
ENA4X48L24	4	20-5/16 (516)	23-1/8 (587)	17-7/8 (454)	16-5/8 (422)	3-9/16 (91)	20-1/4 (514)	7/8 (22)	34 (15)
ENA4X60L24	5	24-3/8 (619)	23-1/8 (587)	18-1/2 (470)	17-5/16 (440)	3-9/16 (91)	20-7/8 (530)	7/8 (22)	35 (16)
ENA4X61L24	5	30-1/2 (774)	23-1/8 (587)	18-9/16 (472)	17-5/16 (440)	3-9/16 (91)	20-15/16 (532)	7/8 (22)	40 (18)

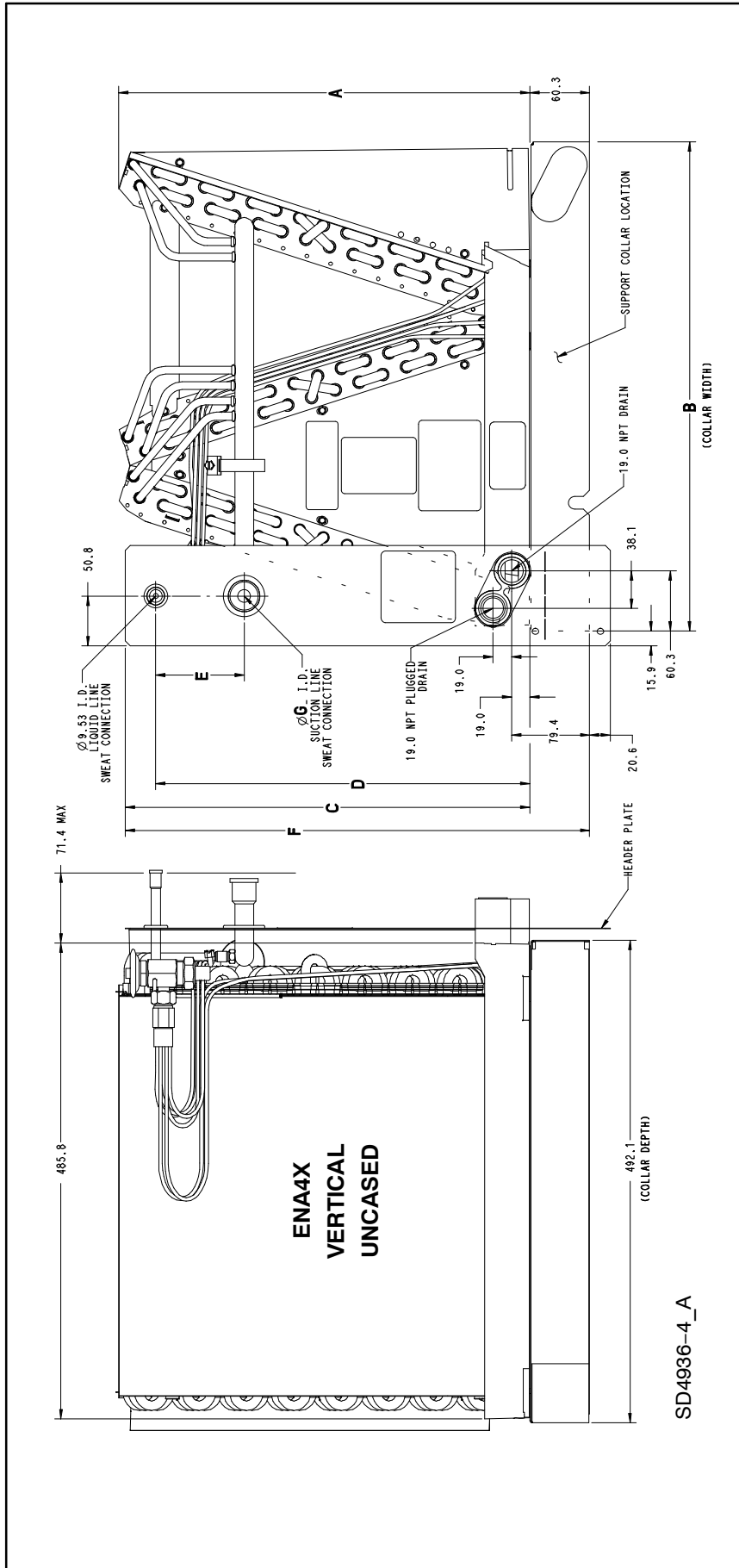
SI Metric Drawing – END4X



SI Metric Drawing – ENW4X



SI Metric Drawing – ENA4X



PHYSICAL DATA												
END4X	Model Size											
	18L14	19L17	24L(14,17)	30L(14,17)	31L17	36L(17,21)	37L17	42L(17,21)	43L24	48L(21,24)	60L24	61L24
Nominal Acceptable CFM Range												
CFM (L/s) - min	525 (248)	700 (330)	875 (413)	1050 (496)	1225 (578)	1400 (661)	1750 (826)	1800 (849)	2000 (944)			
CFM (L/s) - max	625 (295)	900 (425)	1125 (531)	1350 (637)	1600 (755)	1800 (849)	2000 (944)					
Coil Data (all coils 2 slab "A" configuration, lanced sine wave bare aluminum fin)												
Face Area ft ² (m ²)	3.34 (0.31)	4.68 (0.43)	4.01 (0.37)	4.68 (0.43)	6.68 (0.62)	8.02 (0.75)	5.35 (0.50)	8.02 (0.75)	6.68 (0.62)	8.02 (0.75)	10.03 (0.93)	
Each Slab H x L in. (mm)	10 x 16 (254 x 406)	14 x 16 (355 x 406)	12 x 16 (305 x 406)	14 x 16 (355 x 406)	20 x 16 (508 x 406)	24 x 16 (610 x 406)	16 x 16 (406 x 406)	24 x 16 (610 x 406)	20 x 16 (508 x 406)	24 x 16 (610 x 406)	30 x 16 (762 x 406)	
Fins Per Inch	17	16	16	16	16	17	16	17	16	17	17	
Refrigerant Line Connections (sweat)												
Liquid in. (mm)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	
Suction in. (mm)	5/8 (16)	3/4 (19)	3/4 (19)	3/4 (19)	7/8 (22)	7/8 (22)	7/8 (22)	7/8 (22)	7/8 (22)	7/8 (22)	7/8 (22)	

PHYSICAL DATA												
ENW4X	Model Size											
	36L17	42L21	48L21	60L24								
Nominal Acceptable CFM Range												
CFM (L/s) - min	1050 (496)	1225 (578)	1400 (661)	1750 (826)								
CFM (L/s) - max	1350 (637)	1600 (755)	1800 (849)	2000 (944)								
Coil Data (all coils 2 slab "A" configuration, lanced sine wave bare aluminum fin)												
Face Area ft ² (m ²)	4.68 (0.43)	5.35 (0.50)	6.68 (0.62)	8.02 (0.75)								
Each Slab H x L in. (mm)	14 x 16 (355 x 406)	16 x 16 (406 x 406)	20 x 16 (508 x 406)	24 x 16 (610 x 406)								
Fins Per Inch	16	16	16	17								
Refrigerant Line Connections (sweat)												
Liquid in. (mm)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)								
Suction in. (mm)	3/4 (19)	7/8 (22)	7/8 (22)	7/8 (22)								

PHYSICAL DATA												
ENA4X	Model Size											
	18L14	19L17	24L(14,17)	30L(14,17)	31L17	36L(17,21)	37L17	42L21	43L24	48L(21,24)	60L24	61L24
Nominal Acceptable CFM Range												
CFM (L/s) - min	525 (248)	700 (330)	875 (413)	1050 (496)	1225 (578)	1400 (661)	1750 (826)	1800 (849)	2000 (944)			
CFM (L/s) - max	625 (295)	900 (425)	1125 (531)	1350 (637)	1600 (755)	1800 (849)	2000 (944)					
Coil Data (all coils 2 slab "A" configuration, lanced sine wave bare aluminum fin)												
Face Area ft ² (m ²)	3.34 (0.31)	4.68 (0.43)	4.01 (0.37)	4.68 (0.43)	6.68 (0.62)	8.02 (0.75)	5.35 (0.50)	8.02 (0.75)	6.68 (0.62)	8.02 (0.75)	10.03 (0.93)	
Each Slab H x L in. (mm)	10 x 16 (254 x 406)	14 x 16 (355 x 406)	12 x 16 (305 x 406)	14 x 16 (355 x 406)	20 x 16 (508 x 406)	24 x 16 (610 x 406)	16 x 16 (406 x 406)	24 x 16 (610 x 406)	20 x 16 (508 x 406)	24 x 16 (610 x 406)	30 x 16 (762 x 406)	
Fins Per Inch	17	16	16	16	16	17	16	17	16	17	17	
Refrigerant Line Connections (sweat)												
Liquid in. (mm)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	
Suction in. (mm)	5/8 (16)	3/4 (19)	3/4 (19)	3/4 (19)	7/8 (22)	7/8 (22)	7/8 (22)	7/8 (22)	7/8 (22)	7/8 (22)	7/8 (22)	

COIL STATIC PRESSURE DROP (in. w.c.)																				
UNIT SIZE	Standard CFM																			
	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	
18L14	Dry																			
	0.078	0.114	0.156	0.198	0.253															
19L17	Wet																			
	0.096	0.138	0.183	0.213	0.277															
24L14	Dry																			
	0.042	0.060	0.080	0.102	0.128															
24L17	Wet																			
	0.055	0.076	0.104	0.127	0.158															
30L14	Dry																			
	0.070	0.103	0.143	0.182	0.233	0.290	0.354													
30L17	Wet																			
	0.089	0.128	0.171	0.214	0.269	0.336	0.413													
31L17	Dry																			
	0.048	0.068	0.090	0.112	0.140	0.170	0.203													
36L17	Wet																			
	0.064	0.091	0.122	0.150	0.188	0.224	0.263													
36L21	Dry																			
	0.065	0.097	0.135	0.173	0.223	0.278	0.339	0.405	0.478											
37L17	Wet																			
	0.078	0.114	0.160	0.206	0.260	0.321	0.388	0.461	0.540											
42L21	Dry																			
	0.042	0.060	0.080	0.102	0.128	0.157	0.188	0.222	0.259											
48L21	Wet																			
	0.055	0.076	0.104	0.127	0.158	0.190	0.225	0.266	0.309											
48L24	Dry																			
	0.031	0.046	0.063	0.083	0.105	0.130	0.156	0.193	0.230											
60L24	Wet																			
	0.039	0.056	0.075	0.097	0.121	0.149	0.179	0.212	0.249											
61L24	Dry																			
	0.043	0.061	0.082	0.103	0.128	0.157	0.189	0.221	0.259	0.299	0.341									
61L24	Wet																			
	0.056	0.079	0.107	0.133	0.166	0.200	0.236	0.276	0.315	0.361	0.413									
61L24	Dry																			
	0.035	0.048	0.062	0.076	0.093	0.111	0.132	0.153	0.177	0.201	0.228									
61L24	Wet																			
	0.049	0.066	0.085	0.100	0.122	0.144	0.171	0.192	0.217	0.245	0.276									
61L24	Dry																			
	0.025	0.038	0.054	0.072	0.093	0.117	0.143	0.171	0.205	0.233	0.273									
61L24	Wet																			
	0.030	0.044	0.061	0.079	0.103	0.125	0.154	0.182	0.216	0.251	0.288									
61L24	Dry																			
			0.072	0.093	0.118	0.145	0.175	0.206	0.243	0.281	0.322	0.366	0.413							
61L24	Wet																			
			0.079	0.102	0.130	0.159	0.192	0.228	0.26	0.303	0.348	0.396	0.446							
61L24	Dry																			
	0.030	0.041	0.054	0.066	0.082	0.099	0.118	0.137	0.158	0.180	0.205	0.231	0.259							
61L24	Wet																			
	0.043	0.059	0.078	0.101	0.126	0.153	0.181	0.207	0.234	0.260	0.288	0.319	0.354							
61L24	Dry																			
			0.053	0.062	0.073	0.084	0.097	0.111	0.126	0.138	0.154	0.172	0.190	0.210						
61L24	Wet																			
			0.067	0.082	0.096	0.112	0.129	0.145	0.163	0.171	0.191	0.212	0.235	0.258						
61L24	Dry																			
			0.047	0.060	0.075	0.092	0.110	0.130	0.152	0.176	0.204	0.230	0.256	0.284	0.318					
61L24	Wet																			
			0.053	0.067	0.085	0.104	0.125	0.147	0.172	0.200	0.228	0.259	0.292	0.327	0.365					
61L24	Dry																			
			0.015	0.046	0.057	0.069	0.094	0.100	0.119	0.124	0.140	0.158	0.175	0.195	0.214					
61L24	Wet																			
			0.032	0.050	0.066	0.081	0.097	0.114	0.131	0.150	0.169	0.190	0.211	0.233	0.257					
61L24	Dry																			
					0.062	0.073	0.084	0.097	0.111	0.126	0.138	0.154	0.172	0.190	0.210	0.228	0.251	0.273	0.293	
61L24	Wet																			
					0.082	0.096	0.112	0.129	0.145	0.163	0.171	0.191	0.212	0.235	0.258	0.283	0.310	0.336	0.366	
61L24	Dry																			
											0.130	0.140	0.160	0.180	0.200	0.220	0.240	0.270	0.290	
61L24	Wet																			
											0.150	0.170	0.190	0.210	0.230	0.260	0.290	0.310	0.340	

COOLING CAPACITIES (MBH)																	
UNIT SIZE	INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR °F (°C)														
			30 (-1)			35 (2)			40 (4)			45 (7)			50 (10)		
	CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
18	450	72 (22)	31.00	15.20	0.00	28.60	13.90	0.00	25.80	12.50	0.00	22.80	11.10	0.00	19.30	9.60	0.00
		67 (19)	26.00	15.70	0.00	23.50	14.30	0.01	20.70	12.80	0.01	17.60	11.30	0.01	14.10	9.80	0.01
		62 (17)	21.50	16.00	0.01	18.90	14.50	0.01	16.10	13.00	0.01	13.00	11.50	0.01	10.10	10.10	0.03
	600	72 (22)	38.30	18.70	0.00	35.30	17.10	0.00	32.00	15.50	0.00	28.20	13.80	0.00	23.90	12.00	0.01
		67 (19)	32.30	19.50	0.01	29.20	17.80	0.02	25.70	16.10	0.02	21.80	14.30	0.02	17.50	12.40	0.02
		62 (17)	26.70	20.10	0.02	23.50	18.40	0.02	20.00	16.60	0.02	16.20	14.80	0.02	12.90	12.90	0.06
	750	72 (22)	44.30	21.50	0.00	40.90	19.90	0.00	37.00	18.10	0.00	32.70	16.10	0.02	27.70	14.00	0.02
		67 (19)	37.40	22.80	0.03	33.90	20.90	0.03	29.90	19.00	0.03	25.40	16.90	0.03	20.40	14.70	0.04
		62 (17)	31.10	23.80	0.04	27.40	21.80	0.04	23.40	19.80	0.04	19.10	17.70	0.04	15.60	15.60	0.10
19	450	72 (22)	43.72	21.88	0.00	40.49	20.18	0.00	36.83	18.36	0.00	32.67	16.42	0.00	27.95	14.37	0.00
		67 (19)	36.66	22.46	0.00	33.32	20.65	0.00	29.55	18.73	0.00	25.28	16.69	0.00	20.45	14.55	0.00
		62 (17)	30.28	22.93	0.01	26.83	21.02	0.01	23.00	19.03	0.01	18.79	16.98	0.01	14.88	14.88	0.04
	600	72 (22)	53.61	26.56	0.00	49.70	24.60	0.00	45.23	22.48	0.00	40.13	20.19	0.01	34.31	17.72	0.01
		67 (19)	45.00	27.67	0.01	40.96	25.56	0.01	36.35	23.28	0.01	31.10	20.84	0.01	25.13	18.26	0.01
		62 (17)	37.22	28.61	0.01	33.03	26.36	0.01	28.38	24.00	0.01	23.28	21.54	0.02	19.00	19.00	0.07
	750	72 (22)	61.74	30.45	0.00	57.28	28.32	0.00	52.17	25.97	0.01	46.32	23.41	0.02	39.65	20.66	0.02
		67 (19)	51.91	32.14	0.02	47.30	29.82	0.02	42.02	27.29	0.02	35.98	24.55	0.02	29.10	21.62	0.02
		62 (17)	42.99	33.62	0.02	38.23	31.14	0.02	32.93	28.50	0.02	27.20	25.75	0.03	22.72	22.72	0.10
24	600	72 (22)	39.00	19.00	0.00	36.00	17.50	0.00	32.70	15.90	0.00	28.80	14.10	0.00	24.60	12.30	0.01
		67 (19)	32.80	19.80	0.01	29.80	18.20	0.01	26.30	16.40	0.01	22.40	14.60	0.02	18.10	12.60	0.02
		62 (17)	27.20	20.50	0.02	24.00	18.70	0.02	20.50	16.90	0.02	16.60	15.00	0.02	13.10	13.10	0.05
	800	72 (22)	47.10	22.80	0.00	43.60	21.10	0.00	39.60	19.30	0.00	35.00	17.30	0.02	29.90	15.10	0.02
		67 (19)	39.80	24.20	0.03	36.10	22.30	0.03	32.00	20.30	0.03	27.30	18.10	0.03	22.00	15.90	0.03
		62 (17)	33.10	25.40	0.03	29.30	23.40	0.03	25.10	21.20	0.03	20.50	19.00	0.04	16.70	16.70	0.09
	1000	72 (22)	53.40	25.90	0.00	49.50	24.20	0.00	45.10	22.10	0.02	40.00	19.90	0.03	34.10	17.50	0.04
		67 (19)	45.30	27.90	0.05	41.20	25.90	0.05	36.60	23.70	0.05	31.30	21.30	0.05	25.20	18.70	0.05
		62 (17)	37.80	29.60	0.05	33.60	27.40	0.05	28.80	25.10	0.05	23.80	22.70	0.06	20.00	20.00	0.13
30	750	72 (22)	48.00	23.50	0.00	44.00	21.40	0.00	39.70	19.20	0.00	34.80	17.00	0.00	29.40	14.60	0.01
		67 (19)	40.30	24.20	0.01	36.20	22.00	0.02	31.80	19.70	0.02	26.80	17.40	0.02	21.40	15.00	0.02
		62 (17)	33.20	24.80	0.02	29.10	22.50	0.02	24.60	20.20	0.02	19.90	17.90	0.02	15.60	15.60	0.05
	1000	72 (22)	58.70	28.50	0.00	53.90	26.10	0.00	48.50	23.60	0.00	42.50	20.90	0.02	35.80	18.10	0.03
		67 (19)	49.40	29.90	0.03	44.40	27.30	0.03	38.90	24.60	0.04	32.90	21.70	0.04	26.20	18.80	0.04
		62 (17)	40.80	30.90	0.04	35.80	28.20	0.04	30.30	25.40	0.04	24.60	22.60	0.05	19.90	19.90	0.10
	1250	72 (22)	67.40	32.70	0.00	61.90	30.10	0.00	55.70	27.30	0.02	48.80	24.20	0.04	41.10	21.00	0.05
		67 (19)	56.80	34.70	0.05	51.20	31.80	0.06	44.90	28.70	0.06	37.80	25.50	0.06	30.10	22.20	0.06
		62 (17)	47.10	36.30	0.06	41.30	33.20	0.06	35.00	30.10	0.06	28.60	27.00	0.07	23.70	23.70	0.14
31	750	72 (22)	74.50	37.07	0.00	68.51	33.85	0.00	61.86	30.50	0.00	54.41	27.00	0.00	46.04	23.35	0.00
		67 (19)	62.13	37.73	0.01	56.03	34.37	0.01	49.24	30.87	0.01	41.66	27.24	0.01	32.96	23.39	0.01
		62 (17)	50.98	38.20	0.01	44.75	34.72	0.01	37.95	31.17	0.01	30.17	27.36	0.01	23.70	23.70	0.06
	1000	72 (22)	92.35	45.51	0.00	85.01	41.76	0.00	76.78	37.78	0.00	67.46	33.54	0.01	57.03	29.08	0.01
		67 (19)	77.15	46.96	0.02	69.62	42.94	0.02	61.18	38.71	0.02	51.69	34.27	0.02	41.04	29.62	0.02
		62 (17)	63.39	48.06	0.02	55.66	43.85	0.02	47.21	39.53	0.02	38.21	35.15	0.02	30.59	30.59	0.08
	1250	72 (22)	107.37	52.63	0.00	98.97	48.52	0.00	89.37	44.04	0.01	78.59	39.23	0.02	66.39	34.13	0.02
		67 (19)	89.89	54.97	0.03	81.19	50.47	0.03	71.37	45.67	0.03	60.28	40.57	0.03	47.77	35.20	0.03
		62 (17)	73.97	56.83	0.03	64.99	52.05	0.03	55.22	47.14	0.03	44.93	42.16	0.04	36.94	36.94	0.11
36	900	72 (22)	58.10	28.30	0.00	53.40	25.90	0.00	48.00	23.30	0.00	42.10	20.60	0.01	35.50	17.80	0.02
		67 (19)	48.90	29.50	0.02	44.00	26.90	0.03	38.50	24.20	0.03	32.50	21.30	0.03	25.90	18.40	0.03
		62 (17)	40.40	30.40	0.03	35.40	27.70	0.03	29.90	24.90	0.03	24.20	22.10	0.04	19.40	19.40	0.08
	1200	72 (22)	70.00	33.90	0.00	64.30	31.20	0.00	57.80	28.30	0.02	50.70	25.10	0.04	42.70	21.80	0.05
		67 (19)	58.90	35.90	0.05	53.10	32.90	0.05	46.50	29.70	0.05	39.30	26.40	0.06	31.20	22.90	0.06
		62 (17)	48.80	37.50	0.06	42.80	34.30	0.06	36.30	31.00	0.06	29.60	27.80	0.06	24.40	24.40	0.13
	1500	72 (22)	79.30	38.60	0.00	72.90	35.60	0.02	65.70	32.30	0.05	57.50	28.80	0.06	48.50	25.10	0.07
		67 (19)	67.00	41.30	0.08	60.40	38.00	0.08	53.00	34.40	0.08	44.70	30.70	0.08	35.50	26.80	0.09
		62 (17)	55.70	43.60	0.09	48.80	40.00	0.09	41.60	36.50	0.09	34.20	32.90	0.10	28.80	28.80	0.18
37	900	72 (22)	86.45	42.79	0.00	79.79	39.28	0.00	72.26	35.55	0.00	63.72	31.59	0.00	54.22	27.47	0.00
		67 (19)	72.26	43.90	0.01	65.40	40.18	0.01	57.69	36.26	0.01	49.03	32.14	0.01	39.27	27.83	0.01
		62 (17)	59.44	44.77	0.01	52.40	40.88	0.01	44.62	36.85	0.01	36.17	32.73	0.01	28.45	28.45	0.06
	1200	72 (22)	106.02	52.03	0.00	97.94	48.01	0.00	88.72	43.65	0.00	78.38	39.00	0.01	66.68	34.06	0.01
		67 (19)	88.80	54.21	0.02	80.47	49.85	0.02	71.05	45.21	0.02	60.40	40.28	0.02	48.31	35.05	0.02
		62 (17)	73.18	55.98	0.02	64.58	51.37	0.02	55.14	46.59	0.02	44.93	41.66	0.02	36.59	36.59	0.08
	1500	72 (22)	122.09	59.72	0.00	112.86	55.34	0.00	102.29	50.48	0.02	90.55	45.34	0.02	77.08	39.79	0.03
		67 (19)	102.46	63.03	0.03	92.95	58.22	0.03	82.20	53.07	0.03	69.94	47.52	0.03	55.95	41.57	0.03
		62 (17)	84.62	65.86	0.03	74.82	60.74	0.03	64.08	55.41	0.03	52.61	49.87	0.04	43.79	43.79	0.12

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Legend:

CFM – Cubic Ft. per Minute **EWB** – Entering Wet Bulb **LWB** – Leaving Wet Bulb **TC** – Gross Cooling Capacity 1000 Btuh
SHC – Gross Sensible Capacity 1000 Btuh **BF** – Bypass Factor **MBH** – 1000 Btuh

See notes following.

COOLING CAPACITIES (MBH) (cont)																	
UNIT SIZE	INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR °F (°C)														
			30 (-1)			35 (2)			40 (4)			45 (7)			50 (10)		
	CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
42	1050	72 (22)	74.40	36.30	0.00	68.10	33.10	0.00	61.20	29.70	0.00	53.50	26.20	0.01	45.00	22.60	0.02
		67 (19)	62.30	37.60	0.02	56.00	34.20	0.03	48.90	30.60	0.03	41.20	27.00	0.03	32.80	23.30	0.03
		62 (17)	51.40	38.60	0.03	44.90	35.00	0.03	37.90	31.40	0.03	30.60	27.80	0.04	24.40	24.40	0.08
	1400	72 (22)	90.20	43.80	0.00	82.60	40.10	0.00	74.10	36.20	0.01	64.70	32.00	0.04	54.40	27.60	0.05
		67 (19)	75.80	46.00	0.05	68.00	42.00	0.05	59.40	37.70	0.06	50.00	33.40	0.06	39.60	28.90	0.06
		62 (17)	62.60	47.70	0.06	54.70	43.50	0.06	46.20	39.20	0.06	37.50	35.00	0.07	30.70	30.70	0.13
	1750	72 (22)	103.00	50.00	0.00	94.30	46.00	0.00	84.60	41.50	0.05	73.90	36.80	0.06	62.00	32.00	0.07
		67 (19)	86.70	53.10	0.08	77.80	48.60	0.08	68.00	43.90	0.08	57.10	39.00	0.08	45.20	33.90	0.09
		62 (17)	71.70	55.70	0.09	62.70	50.90	0.09	53.10	46.20	0.09	43.40	41.50	0.10	36.30	36.30	0.18
43	1050	72 (22)	96.72	47.64	0.00	89.31	43.85	0.00	80.91	39.78	0.00	71.39	35.44	0.00	60.74	30.89	0.01
		67 (19)	80.93	49.26	0.01	73.30	45.20	0.01	64.67	40.88	0.01	54.97	36.34	0.01	43.99	31.53	0.01
		62 (17)	66.64	50.56	0.01	58.77	46.28	0.01	50.10	41.84	0.01	40.70	37.29	0.02	32.63	32.63	0.07
	1400	72 (22)	117.07	57.30	0.00	108.20	53.03	0.00	98.03	48.31	0.01	86.74	43.33	0.02	73.81	37.96	0.02
		67 (19)	98.18	60.23	0.03	89.03	55.55	0.03	78.69	50.55	0.03	66.93	45.19	0.03	53.54	39.46	0.03
		62 (17)	81.03	62.70	0.03	71.60	57.72	0.03	61.25	52.56	0.03	50.15	47.21	0.03	41.46	41.46	0.11
	1750	72 (22)	133.38	65.28	0.00	123.30	60.58	0.02	111.98	55.48	0.03	99.21	50.01	0.04	84.49	44.04	0.04
		67 (19)	112.09	69.50	0.04	101.79	64.41	0.05	90.14	58.95	0.05	76.76	52.99	0.05	61.46	46.55	0.05
		62 (17)	92.72	73.26	0.05	82.16	67.85	0.05	70.58	62.18	0.05	58.38	56.24	0.06	49.33	49.33	0.15
48	1200	72 (22)	79.30	38.70	0.00	72.90	35.40	0.00	65.70	31.90	0.00	57.70	28.20	0.00	48.80	24.40	0.01
		67 (19)	66.60	40.20	0.02	60.00	36.60	0.02	52.70	32.90	0.02	44.60	29.10	0.02	35.70	25.10	0.03
		62 (17)	55.00	41.30	0.03	48.30	37.60	0.03	40.90	33.80	0.03	33.10	30.00	0.03	26.30	26.30	0.07
	1600	72 (22)	96.00	46.60	0.00	88.30	42.90	0.00	79.60	38.90	0.00	69.90	34.50	0.03	59.10	30.00	0.04
		67 (19)	80.90	49.20	0.04	72.90	45.00	0.04	64.10	40.70	0.05	54.20	36.10	0.05	43.30	31.40	0.05
		62 (17)	67.00	51.20	0.05	58.80	46.80	0.05	49.90	42.30	0.05	40.70	37.90	0.05	33.30	33.30	0.11
	2000	72 (22)	109.40	53.10	0.00	100.70	49.10	0.00	90.90	44.60	0.03	79.90	39.80	0.05	67.50	34.70	0.06
		67 (19)	92.40	56.70	0.06	83.40	52.20	0.07	73.30	47.40	0.07	62.00	42.20	0.07	49.50	36.90	0.07
		62 (17)	76.70	59.70	0.07	67.50	54.90	0.08	57.40	49.90	0.08	47.20	44.90	0.08	39.50	39.50	0.16
60	1600	72 (22)	103.20	50.40	0.00	94.40	45.90	0.00	84.80	41.10	0.00	74.10	36.30	0.00	62.40	31.20	0.02
		67 (19)	86.40	52.10	0.02	77.50	47.20	0.02	67.80	42.30	0.02	57.10	37.20	0.03	45.40	32.10	0.03
		62 (17)	71.20	53.30	0.03	62.20	48.30	0.03	52.40	43.30	0.03	42.30	38.30	0.03	33.50	33.50	0.07
	2000	72 (22)	120.70	58.70	0.00	110.40	53.60	0.00	99.00	48.20	0.00	86.40	42.50	0.02	72.60	36.70	0.03
		67 (19)	101.20	61.30	0.03	90.70	55.70	0.04	79.20	50.00	0.04	66.60	44.10	0.04	52.80	38.10	0.05
		62 (17)	83.40	63.20	0.05	72.80	57.40	0.05	61.40	51.60	0.05	49.70	46.00	0.05	40.30	40.30	0.11
	2400	72 (22)	135.60	65.80	0.00	124.10	60.30	0.00	111.20	54.40	0.01	97.00	48.00	0.04	81.30	41.50	0.05
		67 (19)	113.90	69.30	0.05	102.10	63.20	0.06	89.10	56.90	0.06	74.80	50.30	0.06	59.20	43.60	0.06
		62 (17)	94.10	72.10	0.06	82.10	65.70	0.06	69.30	59.30	0.06	56.40	53.00	0.07	46.50	46.50	0.14
61	1600	72 (22)	146.13	71.69	0.00	134.50	65.77	0.00	121.56	59.54	0.00	106.83	52.86	0.00	90.32	45.83	0.01
		67 (19)	122.06	74.12	0.02	110.18	67.82	0.02	96.85	61.17	0.02	81.83	54.15	0.02	64.91	46.78	0.02
		62 (17)	100.28	76.03	0.02	88.07	69.40	0.02	74.72	62.59	0.02	60.46	55.67	0.02	48.56	48.56	0.08
	2000	72 (22)	169.63	82.84	0.00	156.39	76.39	0.00	141.33	69.41	0.01	124.36	61.86	0.02	105.10	53.83	0.02
		67 (19)	142.02	86.75	0.03	128.36	79.72	0.03	112.89	72.20	0.03	95.38	64.18	0.03	75.60	55.70	0.03
		62 (17)	116.90	89.93	0.03	102.76	82.43	0.03	87.41	74.75	0.03	71.17	66.88	0.04	58.57	58.57	0.11
	2400	72 (22)	189.44	92.42	0.00	174.81	85.58	0.00	158.22	77.98	0.02	139.30	69.76	0.03	117.75	60.94	0.04
		67 (19)	158.99	97.85	0.04	143.83	90.25	0.04	126.61	82.05	0.04	107.02	73.24	0.05	84.86	63.87	0.05
		62 (17)	131.10	102.40	0.05	115.46	94.29	0.05	98.49	85.91	0.05	80.79	77.29	0.06	67.60	67.60	0.14

Legend:

CFM – Cubic Ft. per Minute EWB – Entering Wet Bulb LWB – Leaving Wet Bulb TC – Gross Cooling Capacity 1000 Btuh
 SHC – Gross Sensible Capacity 1000 Btuh BF – Bypass Factor MBH – 1000 Btuh

See notes following.

NOTES:

1. Contact manufacturer for cooling capacities at conditions other than shown in table.
2. Formulas:

$$\text{Leaving db} = \text{entering db} - \frac{\text{sensible heat cap.}}{1.09 \times \text{CFM}}$$

$$\text{Leaving wb} = \text{wb corresponding to enthalpy of air leaving coil (h}_{LWB})$$

$$h_{LWB} = h_{EWB} - \frac{\text{total capacity (Btuh)}}{4.5 \times \text{CFM}}$$
 Where h_{EWB} = enthalpy of air entering coil
3. SHC is based on 80°F (27°C) db temperature of air entering the evaporator coil.
 Below 80°F (27°C) db, subtract (Correction Factor x CFM) from SHC.
 Above 80°F (27°C) db, add (Correction Factor x CFM) to SHC.
4. Direct interpolation is permissible. Do not extrapolate.
5. Fan motor heat has not been deducted.
6. All data points are based on 10°F (-12°C) superheat leaving coil and use of thermostatic expansion valve (TXV) device.
7. The END4X, ENW4X, and ENA4X coils can be used in any properly designed system using R-410A refrigerant.
8. Before using maximum cfm shown in table, check coil static pressure drop to ensure system blower can provide necessary static pressure needed for coil and duct systems.
9. Bypass Factor = 0 indicates no psychometric solution. Use bypass factor of next lower EWB for approximation.

BYPASS FACTOR	ENTERING AIR DRY BULB TEMPERATURE °F (°C)					
	79 (26)	78 (26)	77 (25)	76 (24)	75 (24)	Under 75 (24)
	81 (27)	82 (28)	83 (28)	84 (29)	84 (29)	Above 85 (29)
Correction Factor						
0.10	0.98	1.96	2.94	3.92	4.91	Use formula shown below
0.20	0.87	1.74	2.62	3.49	4.36	
0.30	0.76	1.53	2.29	3.05	3.82	

Interpolation is permissible.

$$\text{Correction Factor} = 1.09 \times (1 - \text{BF}) \times (\text{db} - 80)$$