

ARI RATINGS

802 SERIES

802 - ARI CONDITIONS

MODEL	GPM	SCFM	COOLING TOT BTUH	SEN- SIBLE	HEAT OF REJ.	INPUT WATTS	EER	HTG. TOT BTUH	HEAT OF ABSORP.	INPUT WATTS	COP	PSI
802-041	12.63	1500	46900	35100	63191	4760	9.90	51100	33938	5030	3.00	6.4
802-051	14.00	1750	51800	39600	69884	5300	9.80	62200	42752	5700	3.20	8.5
802-071	17.83	2100	66400	49100	89158	6670	10.00	88400	62298	7650	3.40	4.1
802-092	25.50	3200	94400	72000	127428	9680	9.80	116000	77444	11300	3.30	4.1
802-122	32.40	3500	121000	85400	161944	12000	10.10	141000	98350	12500	3.30	4.9
802-142	36.30	4000	136000	96800	181380	13300	10.20	164000	114185	14600	3.30	4.1
802-222	58.30	6800	219000	162000	291676	21300	10.30	246000	175713	20600	3.50	7.6
802-262	69.20	8000	258000	190000	346030	25800	10.00	320000	228217	26900	3.50	10.1

GENERAL DATA CHART

Model Number	Volt- age	Ph	Min. Circ. Capacity	Max. Fuse	Comp. LRA	Comp. RLA	Blower FLA	Total Blower FLA	Blower Whi. Dia.	Blower Whi. Lth.	Blower HP	Face Sq. Ft.	Rows Deep / In.	Fins / In.	Shp. Wt. lb.	Curb Wt. lb.
802-041	208	3	21.0	30	72	12.2	4.3	16.5								
	230	3	21.0	30	72	12.2	4.3	16.5	10	10	1/2	3.8	4	12	450	77
	460	3	9.2	15	35	6.1	1.1	7.2								
802-051	208	3	20.9	30	93	13.5	5.7	19.2								
	230	3	20.5	30	93	13.5	5.7	19.2	10	10	3/4	3.8	4	12	500	77
	460	3	10.6	15	47	7.0	1.6	8.6								
802-071	208	3	27.4	45	126	18.7	4.0	22.7								
	230	3	27.0	45	126	18.7	3.6	22.3	10	10	1	3.8	4	12	600	77
	460	3	13.7	20	62	9.5	1.8	11.3								
802-092	208	3	31.5	40	72	12.2	5.6	17.8	(2)	(2)						
	230	3	31.1	40	72	12.2	5.6	17.8	12	9	1 1/2	7.8	3	14	1225	122
	460	3	15.5	20	35	6.1	2.8	8.9								
802-122	208	3	42.7	50	103	16.5	5.6	22.1	(2)	(2)						
	230	3	42.7	50	103	16.5	5.6	22.1	12	9	1 1/2	7.8	4	12	1275	122
	460	3	20.4	25	54	7.8	2.8	10.6								
802-142	208	3	48.7	60	126	18.7	6.6	25.3	(2)	(2)						
	230	3	48.7	60	126	18.7	6.6	25.3	12	9	2	7.8	4	12	1285	122
	460	3	24.7	30	62	9.5	3.3	12.8								
802-222	208	3	82.0	110	183	31.4	11.3	42.7	(2)	(2)						
	230	3	80.5	110	183	31.4	9.8	41.2	15	11	3	14.6	4	12	1475	159
	460	3	37.3	50	93	14.4	4.9	19.3								
802-262	208	3	103.0	125	229	38.5	11.3	49.8	(2)	(2)						
	230	3	101.0	125	229	38.5	9.8	48.3	15	11	3	14.6	4	12	1560	159
	460	3	47.3	60	116	17.8	4.9	22.7								

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results in steady improvements.
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subject to change without notice.

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PERFORMANCE DATA

802-041

MODEL 802-041

----- NFT COOLING RATINGS ----- --- NET HEAT RATINGS ---												
WAT FLO	ENT TEM	COOL TOTAL	SENS-IBLE	HEAT OF REJECT	POWER INPUT	LVG WAT	ENT WAT	HEAT TOTAL	HEAT ABSORP	POWER INPUT	LVG WAT	PD FT OF WATER
GPM		BTUH	BTUH		WATTS	TEMP	TEMP	BTUH		WATTS	TEMP	
5.0	65	43500	35000	63200	4600	90.3	60	41000	25812	4450	49.8	3.1
8.0	65	48000	34800	62847	4350	80.7	60	44000	28130	4650	52.9	7.1
11.0	65	48000	34400	62505	4250	76.4	60	46000	29788	4750	54.6	12.6
14.0	65	48000	34200	62164	4150	73.9	60	46500	30118	4800	55.7	19.5
5.0	75	46500	35000	63224	4900	100.2	65	44000	28130	4650	53.7	3.1
8.0	75	47500	35000	63370	4650	90.8	65	47000	30618	4800	57.3	7.1
11.0	75	47500	35000	62859	4500	86.5	65	48500	31776	4900	59.2	12.6
14.0	75	48000	34800	63182	4450	84.0	65	49000	32776	4900	60.4	19.5
5.0	85	44500	34600	62248	5200	110.0	70	47000	30618	4800	57.7	3.1
8.0	85	46000	35000	62894	4950	100.7	70	49500	32606	4950	61.8	7.1
11.0	85	46500	35000	62882	4800	96.5	70	51000	33435	5000	63.9	12.6
14.0	85	47000	35000	63212	4750	94.0	70	51500	34435	5000	65.1	19.5
5.0	90	43500	34200	61589	5300	114.8	80	52000	34594	5100	66.2	3.1
8.0	90	45500	34800	62906	5100	105.7	80	53500	35752	5200	71.0	7.1
11.0	90	46000	35000	62894	4950	101.4	80	54500	36752	5200	73.3	12.6
14.0	90	46500	35000	63053	4850	99.0	80	55000	37252	5200	74.7	19.5
5.0	95	42500	33800	61272	5500	119.5	90	55500	37411	5300	75.0	3.1
8.0	95	44500	34600	62248	5200	110.6	90	56500	38411	5300	80.4	7.1
11.0	95	45500	34800	62906	5100	106.4	90	57500	39411	5300	82.9	12.6
14.0	95	45500	34800	62565	5000	104.0	90	57500	39070	5400	84.4	19.5

Based upon ARI Standard 320-81.

CORRECTION FACTORS FOR VARIATION IN ENTERING AIR TEMPERATURES MODEL 802-041

EWB	TOTAL COOL	SENSIBLE				HEAT REJ	INPUT WATTS	EGB	TOTAL HEAT	HEAT ABS	INPUT WATTS	
		70 DB	75 DB	80 DB	85 DB							90 DB
61	0.910	0.871	1.086	1.302	1.517	1.732	0.925	0.968	1.60	1.002	1.041	0.924
64	0.954	0.919	0.935	1.150	1.365	1.580	0.962	0.984	1.65	1.001	1.021	0.962
67	1.000	0.970	0.985	1.000	1.215	1.430	1.000	1.000	1.70	1.000	1.000	1.000
70	1.049		0.637	0.852	1.067	1.282	1.040	1.016	1.75	0.999	0.979	1.038
73	1.100		0.490	0.706	0.921	1.136	1.082	1.032	1.80	0.998	0.959	1.076

CORRECTION FACTORS - VARIATIONS IN ENT AIR FLOW MODEL 802-041

CFM	TOTAL COOL	SENS-IBLE	HEAT REJEC	INPUT WATTS	TOTAL HEAT	HEAT ABS	INPUT WATTS
1200	0.972	0.938	0.971	0.968	0.943	0.929	0.970
1350	0.986	0.969	0.985	0.984	0.971	0.964	0.985
1500	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1650	1.014	1.031	1.015	1.016	1.024	1.036	1.015
1800	1.028	1.062	1.029	1.032	1.059	1.074	1.030
1950	1.042	1.093	1.044	1.048	1.089	1.111	1.045

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PERFORMANCE DATA

802-071

MODEL 802-071

NET COOLING RATINGS													NET HEAT RATINGS			
WAT FNT	COOL	SENS-	HEAT	POWER	LVG	ENT	HEAT	HEAT	POWER	LVG	PD					
FLO WAT	TOTAL	IBLE	OF	INPUT	WAT	WAT	TOTAL	OF	INPUT	WAT	FT					
GPM TEM	BTUH	BTUH	REJECT	WATTS	TEMP	TEMP	BTUH	ABSORP	WATTS	TEMP	OF					
											WATER					
8.0	65	67000	49000	86843	6400	87.3	60	72000	48792	6800	47.8	2.2				
13.0	65	68000	48500	88478	6000	78.6	60	78000	53768	7100	51.8	2.5				
18.0	65	68000	48000	88137	5900	74.8	60	80000	55426	7200	53.8	2.5				
23.0	65	68000	48000	87795	5800	72.6	60	81000	56085	7300	55.1	14.7				
8.0	75	65000	49000	89208	6800	97.3	65	78000	53768	7100	51.8	2.2				
13.0	75	67000	49000	88843	6400	88.7	65	82000	56744	7400	56.2	2.5				
18.0	75	68000	49000	89502	6300	84.9	65	85000	59403	7500	58.4	2.5				
23.0	75	68000	48500	89161	6200	82.7	65	86000	60403	7500	59.8	14.7				
8.0	85	64000	48500	88574	7200	107.1	70	83000	57744	7400	55.6	2.2				
13.0	85	66000	49000	89208	6800	98.7	70	87000	61061	7600	60.6	2.5				
18.0	85	66000	49000	88867	6700	94.9	70	89000	62720	7700	63.1	2.5				
23.0	85	67000	49000	89526	6600	92.8	70	89000	62720	7700	64.5	14.7				
8.0	90	62500	48000	87756	7400	111.9	80	91000	64379	7800	64.0	2.2				
13.0	90	65000	49000	88291	7000	103.6	80	94000	67037	7900	69.2	2.5				
18.0	90	66000	49000	89550	6900	99.9	80	95000	68037	7900	72.5	2.5				
23.0	90	66000	49000	89208	6800	97.7	80	96000	68696	8000	74.1	14.7				
8.0	95	61000	47500	86939	7600	116.8	90	97000	69696	8000	72.7	2.2				
13.0	95	63500	48500	88074	7200	108.6	90	99000	71355	8100	79.1	2.5				
18.0	95	64500	49000	88732	7100	104.8	90	99000	71355	8100	82.0	2.5				
23.0	95	65000	49000	88891	7000	102.7	90	100000	72013	8200	83.7	14.7				

Based upon ARI Standard 320-81.

CORRECTION FACTORS FOR VARIATION IN ENTERING AIR TEMPERATURES MODEL 802-071

EWB	TOTAL COOL	SENSIBLE					HEAT REJ	INPUT WATTS	EDB	TOTAL HEAT	HEAT ABS	INPUT WATTS
		70 DB	75 DB	80 DB	85 DB	90 DB						
61	0.916	0.871	1.086	1.302	1.517	1.732	0.930	0.969	60	1.002	1.011	0.979
64	0.956	0.919	0.935	1.150	1.365	1.580	0.963	0.984	65	1.001	1.006	0.989
67	1.000	0.970	0.785	1.000	1.215	1.430	1.000	1.000	70	1.000	1.000	1.000
70	1.044		0.637	0.852	1.067	1.282	1.040	1.016	75	0.999	0.994	1.011
73	1.102		0.490	0.706	0.921	1.136	1.084	1.031	80	0.998	0.989	1.021

CORRECTION FACTORS - VARIATIONS IN ENT AIR FLOW MODEL 802-071

CFM	TOTAL COOL	SENSIBLE	HEAT REJEC	INPUT WATTS	TOTAL HEAT	HEAT ABS	INPUT WATTS
1700	0.973	0.941	0.972	0.970	0.932	0.922	0.958
1900	0.987	0.970	0.986	0.985	0.966	0.960	0.979
2100	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2300	1.013	1.030	1.014	1.015	1.035	1.040	1.021
2500	1.027	1.059	1.028	1.030	1.070	1.081	1.042
2700	1.040	1.089	1.041	1.046	1.106	1.123	1.063

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PERFORMANCE DATA

802-122

MODEL 802-122

----- NET COOLING RATINGS ----- --- NET HEAT RATINGS ---													
WAT FLO	ENT TEM	COOL TOTAL	SENS-IBLE	HEAT OF REJECT	POWER INPUT	LVG WAT	ENT TEM	HEAT TOTAL	HEAT ABSORP	POWER INPUT	LVG WAT	PD FT OF WATER	
GPM		BTUH	BTUH		WATTS	TEMP		BTUH		WATTS	TEMP		
15.0	65	123000	85000	161908	11400	86.6	60	116000	77774	11200	49.6	2.9	
23.0	65	124000	84000	161202	10900	79.0	60	124000	84409	11600	52.7	6.2	
31.0	65	124000	84000	160178	10600	75.4	60	127000	86727	11800	54.4	10.1	
39.0	65	124000	83000	159495	10400	73.2	60	129000	88385	11900	55.5	16.2	
15.0	75	121000	85000	162297	12100	96.6	65	125000	85068	11700	53.7	2.9	
23.0	75	122000	85000	161594	11600	89.1	65	131000	90044	12000	57.2	6.2	
31.0	75	123000	85000	161567	11300	85.4	65	134000	92361	12200	59.0	10.1	
39.0	75	124000	85000	162226	11200	83.3	65	136000	94020	12300	60.2	16.2	
15.0	85	117000	85000	160686	12800	106.4	70	133000	91703	12100	57.8	2.9	
23.0	85	120000	85000	161980	12300	99.1	70	138000	95679	12400	61.7	6.2	
31.0	85	121000	85000	161956	12000	95.4	70	141000	98338	12500	63.7	10.1	
39.0	85	121000	85000	161615	11900	93.3	70	142000	98996	12600	64.9	16.2	
15.0	90	115000	84000	160052	13200	111.3	80	145000	101655	12700	66.5	2.9	
23.0	90	118000	85000	161345	12700	104.0	80	149000	104972	12900	70.9	6.2	
31.0	90	119000	85000	161321	12400	100.4	80	151000	106631	13000	73.1	10.1	
39.0	90	120000	85000	161639	12200	98.3	80	152000	107631	13000	74.5	16.2	
15.0	95	112000	83000	158417	13600	116.1	90	154000	109290	13100	75.4	2.9	
23.0	95	116000	84000	160369	13000	108.4	90	157000	111948	13200	80.3	6.2	
31.0	95	117000	85000	160686	12800	105.4	90	158000	112607	13300	82.7	10.1	
39.0	95	118000	85000	161004	12600	103.3	90	159000	113607	13300	84.2	16.2	

Based upon ARI Standard 320-81.

CORRECTION FACTORS FOR VARIATION IN ENTERING AIR TEMPERATURES MODEL 802-122

EWB	TOTAL COOL	SENSIBLE				HEAT REJ	INPUT WATTS	EOB	TOTAL HEAT	HEAT ABS	INPUT WATTS	
		70 DB	75 DB	80 DB	85 DB							
61	0.917	0.871	1.086	1.302	1.517	1.732	0.930	0.970	1.60	1.002	1.035	0.924
64	0.956	0.719	0.935	1.150	1.365	1.580	0.963	0.985	1.65	1.001	1.018	0.962
67	1.000	0.570	0.785	1.000	1.215	1.438	1.000	1.000	1.70	1.000	1.000	1.000
70	1.049		0.637	0.852	1.067	1.282	1.040	1.015	1.75	0.999	0.982	1.038
73	1.103		0.490	0.706	0.921	1.136	1.085	1.030	1.80	0.998	0.964	1.076

CORRECTION FACTORS - VARIATIONS IN ENT AIR FLOW MODEL 802-122

CFM	TOTAL COOL	SENS-IBLE	HEAT REJEC	INPUT WATTS	TOTAL HEAT	HEAT ABS	INPUT WATTS
3500	1.000	1.000	1.000	1.000	1.000	1.000	1.000
3900	1.016	1.035	1.011	1.018	1.033	1.041	1.017
4300	1.032	1.071	1.033	1.037	1.068	1.082	1.034
4700	1.048	1.106	1.050	1.055	1.102	1.124	1.052
5100	1.064	1.142	1.066	1.073	1.137	1.167	1.069

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PERFORMANCE DATA

802-222

MODEL 802-222

NET COOLING RATINGS												NET HEAT RATINGS				
WAT FLO GPM	ENT TEM	COOL TOTAL BTUH	SENS-IBLE BTUH	HEAT REJECT	POWER OF INPUT WATTS	LVG WAT TEMP	ENT WAT TEMP	HEAT TOTAL STUH	HEAT ABSORP	POWER OF INPUT WATTS	LVG WAT TEMP	PD FT OF WATER				
27.0	65	223000	161000	291943	20200	86.6	60	202000	138860	18500	49.7	5.7				
42.0	65	225000	160000	290530	19200	78.8	60	216000	150812	19100	52.8	12.5				
57.0	65	225000	159000	289164	18800	75.1	60	222000	155447	19500	54.5	21.7				
72.0	65	225000	158000	288141	18500	73.0	60	226000	159105	19600	55.6	33.1				
27.0	75	218000	162000	291380	21500	96.6	65	213000	151470	19200	53.6	5.7				
42.0	75	222000	162000	291963	20500	88.9	65	229000	161423	19800	57.3	12.5				
57.0	75	223000	161000	291601	20100	85.2	65	234000	165399	20100	59.2	21.7				
72.0	75	224000	161000	291577	19800	83.1	65	238000	169057	20200	60.3	33.1				
27.0	85	211000	161000	288816	22800	106.4	70	231000	163081	19900	57.9	5.7				
42.0	85	213000	162000	291403	21800	98.9	70	241000	171375	20400	61.8	12.5				
57.0	85	219000	162000	291697	21300	95.2	70	246000	175692	20600	63.8	21.7				
72.0	85	220000	162000	292014	21100	93.1	70	248000	177351	20700	65.1	33.1				
27.0	90	207000	159000	286864	23400	111.3	80	252000	180668	20900	66.6	5.7				
42.0	90	214000	161000	290451	22400	103.8	80	260000	187644	21200	71.1	12.5				
57.0	90	216000	162000	291086	22000	100.2	80	263000	189962	21400	73.3	21.7				
72.0	90	217000	162000	291062	21700	98.1	80	265000	191621	21500	74.7	33.1				
27.0	95	203000	157000	285253	24100	116.1	90	269000	195279	21600	75.5	5.7				
42.0	95	210000	160000	288840	23100	108.7	90	274000	199597	21800	80.5	12.5				
57.0	95	213000	161000	290134	22600	105.2	90	276000	201255	21900	82.9	21.7				
72.0	95	214000	161000	290110	22300	103.1	90	278000	203255	21900	84.4	33.1				

Based upon ARI Standard 320-81.

CORRECTION FACTORS FOR VARIATION IN ENTERING AIR TEMPERATURES MODEL 802-222

EWB	TOTAL COOL	SENSIBLE								HEAT REJ	INPUT WATTS	EDB	TOTAL HEAT	HEAT ASS	INPUT WATTS
		70 DB	75 DB	80 DB	85 DB	90 DB									
61	0.921	0.871	1.086	1.302	1.517	1.732	1.947	2.162	0.933	0.969	60	1.001	1.031	0.928	
54	0.958	0.819	0.935	1.150	1.365	1.580	1.795	2.010	0.964	0.985	65	1.001	1.016	0.964	
67	1.000	0.570	0.785	1.000	1.215	1.430	1.645	1.860	1.000	1.000	70	1.000	1.000	1.000	
70	1.048		0.637	0.852	1.067	1.282	1.497	1.712	1.040	1.015	75	0.999	0.984	1.036	
73	1.103		0.490	0.706	0.921	1.136	1.351	1.566	1.085	1.031	80	0.998	0.969	1.072	

CORRECTION FACTORS - VARIATIONS IN ENT AIR FLOW MODEL 802-222

CFM	TOTAL COOL	SENS-IBLE	HEAT REJEC	INPUT WATTS	TOTAL HEAT	HEAT ABS	INPUT WATTS
5400	0.471	0.436	0.970	0.967	0.961	0.950	0.490
6100	0.986	0.968	0.985	0.984	0.980	0.975	0.495
6800	1.000	1.000	1.000	1.000	1.000	1.000	1.000
7500	1.014	1.032	1.015	1.016	1.020	1.025	1.005
8200	1.029	1.064	1.030	1.033	1.040	1.051	1.010
8900	1.043	1.096	1.045	1.049	1.060	1.077	1.016

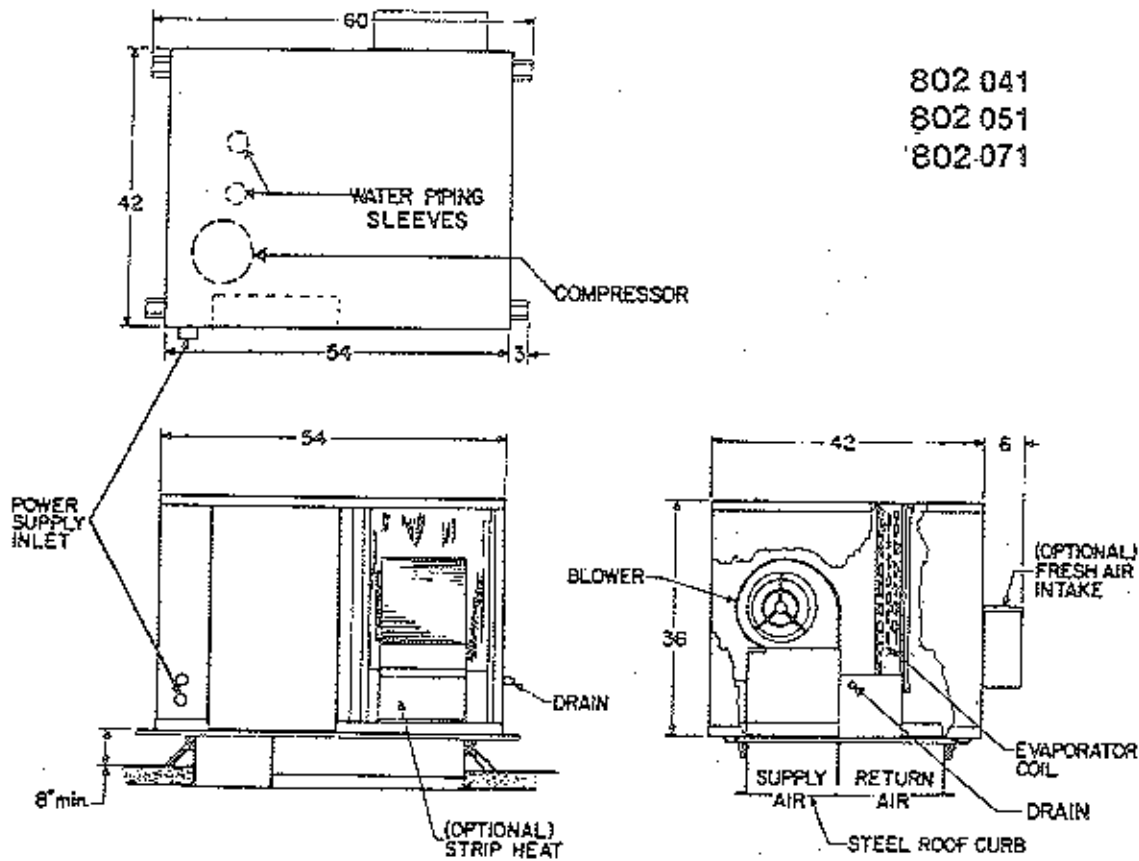
Continuing engineering research results in steady improvements. Therefore, these specifications are subject to change without notice.

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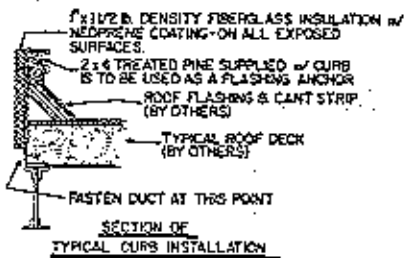
12/83

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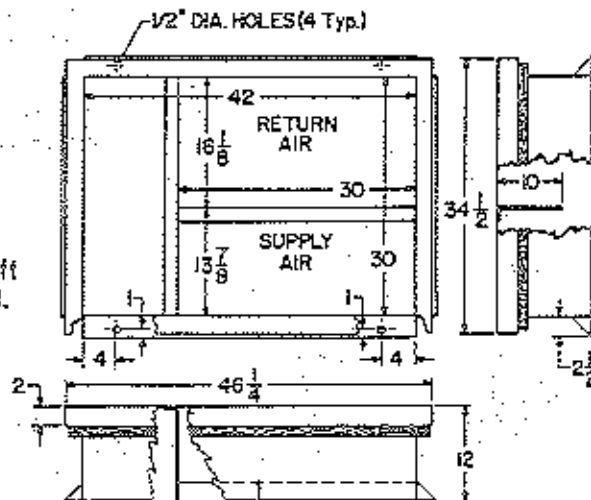
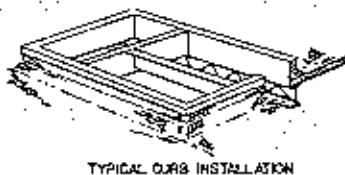
DIMENSIONS 802 SERIES



503 CURB



Shaded Area Indicate 3' Clearance must be left for access to Compressor and Electrical Panel.

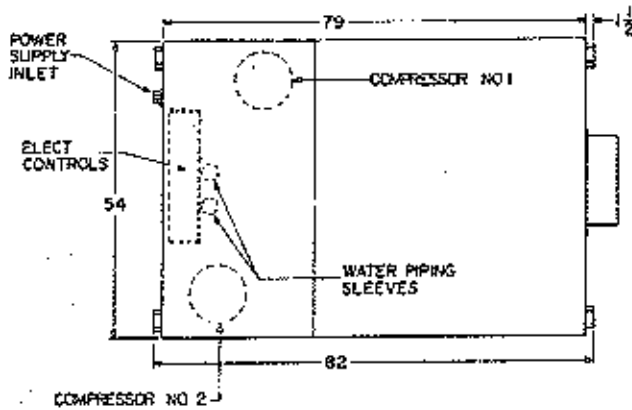


Continuing engineering research results in steady improvements. Therefore, these specifications are subject to change without notice.

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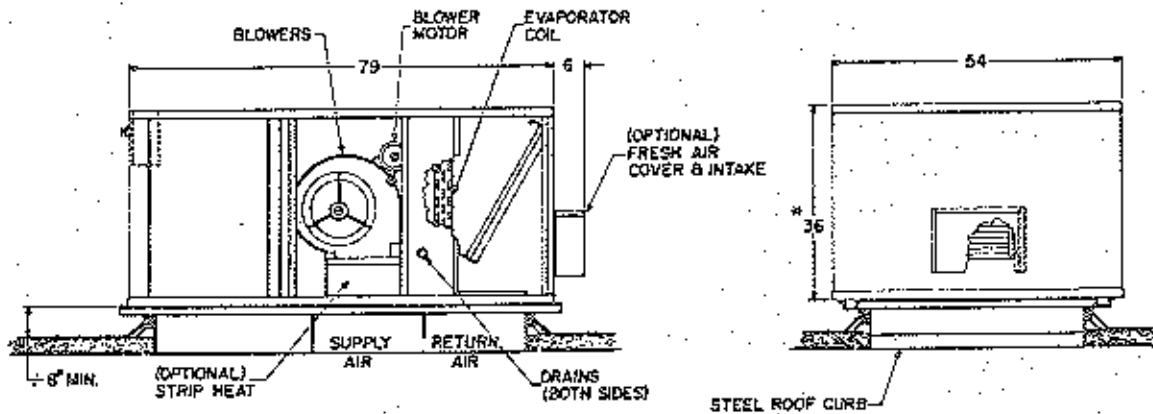
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DIMENSIONS 802 SERIES

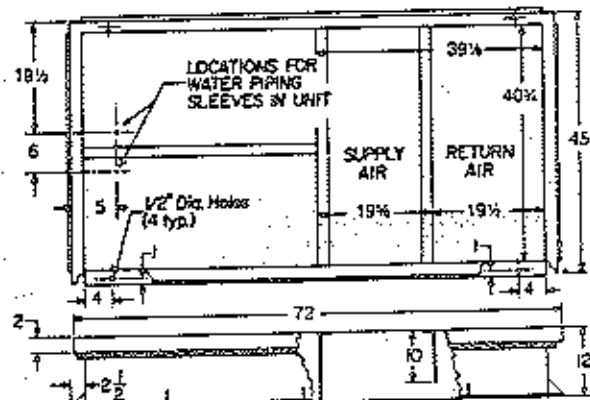
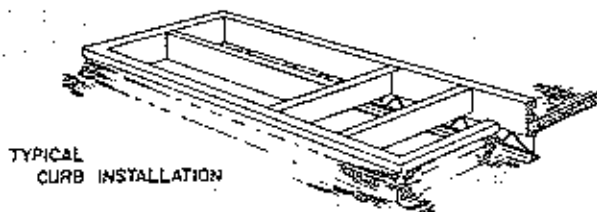
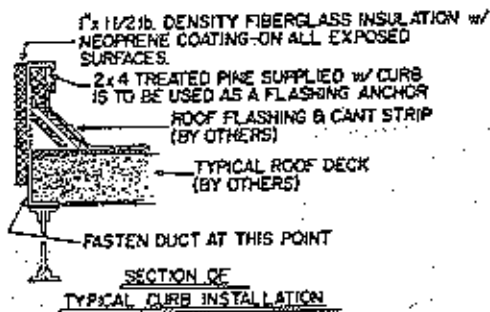


802 092
802 122
802 142

*
ADD 4 INCHES TO HEIGHT WHEN
3 H.P. MOTOR IS USED.



512 CURB



Shaded Area Indicate 3' Clearance must be left
for access to Compressor and Electrical Panel.

Continuing engineering research
results in steady improvements.
Therefore, these specifications are
subject to change without notice.

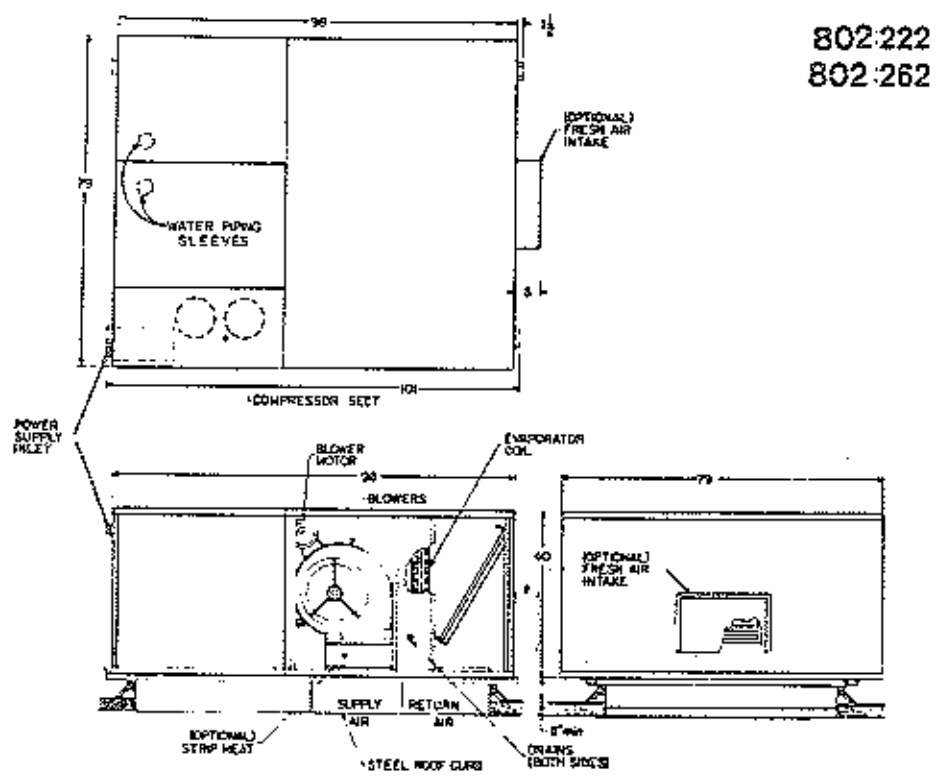
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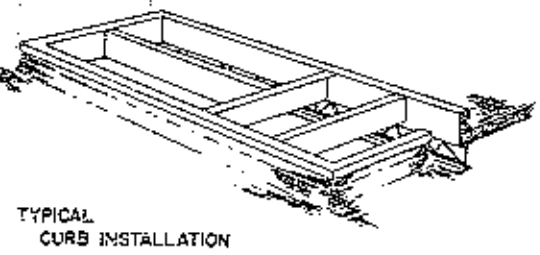
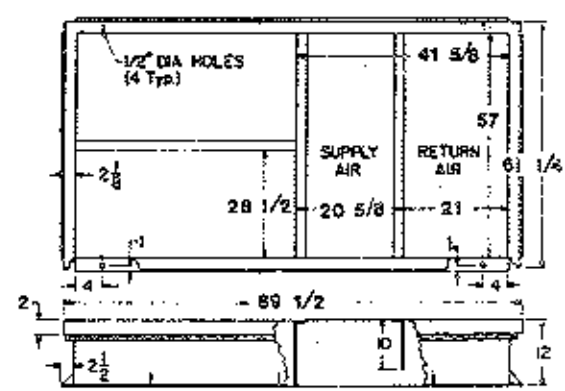
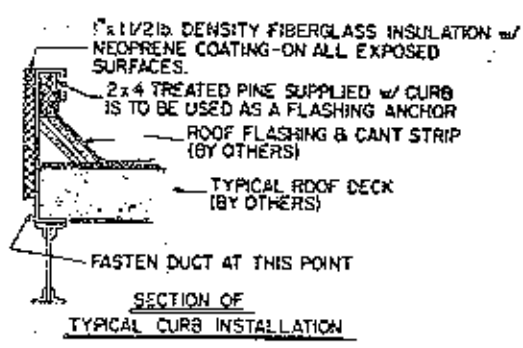
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Climate Master

DIMENSIONS

802 SERIES



505 CURB



Shaded Area Indicate 3' Clearance must be left for access to Compressor and Electrical Panel.

Continuing engineering research results in steady improvements. Therefore, these specifications are subject to change without notice.

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