

# Engineering Data

## Capacity Table

RXLA-AAVJU

Heat Pump, 1 phase 208 / 230 V, 60 Hz

**R-32**



**VRV S**  
**Aurora Series**



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# 1. Capacity Tables (Reference Data)

## 1.1 Cooling Capacity for Standard Condition (Te: 43°F (6°C))

### 1.1.1 Fahrenheit

### RXLA36AAVJU Cooling Capacity for Standard Condition (Te: 43°F)

Connection ratio	Outdoor air temp.	Indoor air temp. (°F/WB)															
		57		61		64		67		70		72		75			
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
%	*FDB	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW		
130	23	33.4	0.52	38.8	0.64	42.8	0.74	46.8	0.85	50.8	0.96	53.5	1.02	55.6	1.03		
	30	33.4	0.54	38.8	0.67	42.8	0.77	46.8	0.88	50.8	1.00	53.5	1.03	54.4	1.04		
	40	33.4	0.57	38.8	0.71	42.8	0.82	46.8	0.94	50.8	1.03	51.9	1.03	52.7	1.04		
	50	33.4	0.66	38.8	0.82	42.8	0.94	46.8	1.08	49.6	1.10	50.1	1.11	50.9	1.11		
	54	33.4	0.75	38.8	0.93	42.8	1.07	46.8	1.21	48.9	1.22	49.4	1.23	50.2	1.23		
	58	33.4	0.84	38.8	1.04	42.8	1.21	46.8	1.33	48.2	1.34	48.7	1.35	49.5	1.35		
	62	33.4	0.94	38.8	1.17	42.8	1.35	46.7	1.45	47.5	1.46	48.0	1.47	48.8	1.48		
	66	33.4	1.04	38.8	1.30	42.8	1.50	46.0	1.57	46.8	1.58	47.3	1.59	48.1	1.60		
	70	33.4	1.14	38.8	1.43	42.8	1.63	45.1	1.69	45.1	1.70	46.1	1.70	46.4	1.72		
	72	33.4	1.21	38.8	1.50	42.8	1.74	44.9	1.75	45.7	1.76	46.2	1.77	46.8	1.78		
	75	33.4	1.30	38.8	1.62	42.8	1.83	44.4	1.84	45.2	1.85	45.7	1.86	45.9	1.87		
	79	33.4	1.42	38.8	1.77	42.8	1.95	43.7	1.96	44.5	1.97	44.7	1.98	44.7	2.00		
83	33.4	1.56	38.8	1.94	42.2	2.07	43.0	2.08	43.5	2.10	43.5	2.11	43.5	2.12			
87	33.4	1.70	38.8	2.12	41.5	2.19	42.3	2.20	42.3	2.22	42.3	2.23	42.3	2.25			
91	33.4	1.84	38.8	2.29	40.8	2.31	41.1	2.33	41.1	2.34	41.1	2.35	41.1	2.37			
93	33.4	1.92	38.8	2.35	40.4	2.37	40.5	2.39	40.5	2.41	40.5	2.42	40.5	2.43			
95	33.4	2.00	38.8	2.40	39.9	2.43	39.9	2.45	39.9	2.47	39.9	2.48	39.9	2.50			
99	33.4	2.17	38.6	2.54	38.7	2.55	38.7	2.57	38.7	2.59	38.7	2.61	38.7	2.61			
103	33.4	2.35	38.6	2.66	38.6	2.68	38.6	2.70	38.6	2.71	38.6	2.71	38.6	2.71			
106	33.4	2.49	34.7	2.75	34.7	2.77	34.7	2.78	34.7	2.78	34.7	2.78	34.7	2.78			
110	32.2	2.70	32.2	2.87	32.2	2.87	32.2	2.87	32.2	2.87	32.2	2.87	32.2	2.87			
115	29.1	3.07	29.1	3.08	29.1	3.09	29.1	3.10	29.1	3.11	29.1	3.11	29.1	3.12			
118	27.2	3.10	27.2	3.11	27.2	3.12	27.2	3.13	27.2	3.14	27.2	3.14	27.2	3.15			
122	24.6	2.82	24.6	2.83	24.6	2.84	24.6	2.85	24.6	2.86	24.6	2.86	24.6	2.87			
120	23	30.9	0.47	35.8	0.57	39.5	0.66	43.2	0.75	46.9	0.85	49.4	0.92	53.1	1.02		
	30	30.9	0.49	35.8	0.60	39.5	0.69	43.2	0.78	46.9	0.89	49.4	0.96	53.1	1.03		
	40	30.9	0.51	35.8	0.63	39.5	0.73	43.2	0.83	46.9	0.95	49.4	1.02	51.8	1.03		
	50	30.9	0.59	35.8	0.73	39.5	0.84	43.2	0.96	46.9	1.08	49.4	1.10	50.0	1.11		
	54	30.9	0.67	35.8	0.83	39.5	0.95	43.2	1.09	46.9	1.21	48.6	1.22	49.3	1.23		
	58	30.9	0.75	35.8	0.93	39.5	1.07	43.2	1.23	46.9	1.33	47.9	1.34	48.6	1.34		
	62	30.9	0.84	35.8	1.04	39.5	1.20	43.2	1.37	46.1	1.45	47.2	1.46	47.9	1.47		
	66	30.9	0.93	35.8	1.15	39.5	1.33	43.2	1.53	46.0	1.57	46.6	1.58	47.2	1.59		
	70	30.9	1.03	35.8	1.27	39.5	1.47	43.2	1.68	45.3	1.69	45.8	1.70	46.5	1.71		
	72	30.9	1.08	35.8	1.34	39.5	1.55	43.2	1.74	44.9	1.75	45.4	1.76	46.2	1.77		
	75	30.9	1.16	35.8	1.44	39.5	1.66	43.2	1.83	44.4	1.84	44.9	1.85	45.6	1.86		
	79	30.9	1.27	35.8	1.57	39.5	1.82	43.0	1.95	43.7	1.96	44.2	1.97	44.7	1.98		
83	30.9	1.39	35.8	1.72	39.5	2.00	42.3	2.07	43.0	2.08	43.5	2.09	43.5	2.10			
87	30.9	1.51	35.8	1.88	39.5	2.18	40.6	2.19	42.3	2.20	42.3	2.21	42.3	2.23			
91	30.9	1.64	35.8	2.04	39.5	2.30	40.0	2.31	41.1	2.32	41.1	2.33	41.1	2.35			
93	30.9	1.71	35.8	2.13	39.5	2.36	40.5	2.37	40.5	2.39	40.5	2.40	40.5	2.41			
95	30.9	1.78	35.8	2.22	39.4	2.42	39.9	2.43	39.9	2.45	39.9	2.46	39.9	2.48			
99	30.9	1.93	35.8	2.41	38.7	2.54	38.7	2.56	38.7	2.57	38.7	2.59	38.7	2.60			
103	30.9	2.09	35.8	2.61	38.6	2.66	38.6	2.68	38.6	2.70	38.6	2.71	38.6	2.71			
106	30.9	2.21	34.7	2.73	34.7	2.75	34.7	2.77	34.7	2.78	34.7	2.78	34.7	2.78			
110	30.9	2.39	32.2	2.85	32.2	2.87	32.2	2.87	32.2	2.87	32.2	2.87	32.2	2.87			
115	29.1	3.07	29.1	3.08	29.1	3.09	29.1	3.10	29.1	3.11	29.1	3.11	29.1	3.12			
118	27.2	3.10	27.2	3.11	27.2	3.12	27.2	3.13	27.2	3.14	27.2	3.14	27.2	3.15			
122	24.6	2.82	24.6	2.83	24.6	2.84	24.6	2.85	24.6	2.86	24.6	2.86	24.6	2.87			
110	23	28.3	0.42	32.8	0.51	36.2	0.58	39.6	0.66	43.0	0.75	45.3	0.81	48.7	0.90		
	30	28.3	0.43	32.8	0.53	36.2	0.61	39.6	0.69	43.0	0.78	45.3	0.84	48.7	0.94		
	40	28.3	0.46	32.8	0.56	36.2	0.64	39.6	0.73	43.0	0.83	45.3	0.90	48.7	1.00		
	50	28.3	0.53	32.8	0.64	36.2	0.74	39.6	0.84	43.0	0.95	45.3	1.03	48.7	1.10		
	54	28.3	0.60	32.8	0.73	36.2	0.84	39.6	0.96	43.0	1.08	45.3	1.17	48.5	1.22		
	58	28.3	0.68	32.8	0.82	36.2	0.94	39.6	1.08	43.0	1.20	45.3	1.29	48.3	1.34		
	62	28.3	0.75	32.8	0.92	36.2	1.05	39.6	1.20	43.0	1.36	45.3	1.45	47.0	1.46		
	66	28.3	0.83	32.8	1.02	36.2	1.17	39.6	1.34	43.0	1.51	45.3	1.57	46.3	1.58		
	70	28.3	0.91	32.8	1.12	36.2	1.30	39.6	1.48	43.0	1.68	45.0	1.69	45.6	1.70		
	72	28.3	0.96	32.8	1.18	36.2	1.36	39.6	1.55	43.0	1.74	44.6	1.75	45.3	1.76		
	75	28.3	1.03	32.8	1.27	36.2	1.46	39.6	1.67	43.0	1.83	44.1	1.84	44.8	1.85		
	79	28.3	1.12	32.8	1.39	36.2	1.60	39.6	1.83	42.9	1.95	43.4	1.96	44.1	1.97		
83	28.3	1.23	32.8	1.51	36.2	1.76	39.6	2.07	42.8	2.19	43.3	2.19	43.3	2.21			
87	28.3	1.33	32.8	1.65	36.2	1.91	39.6	2.18	41.5	2.19	42.0	2.20	42.2	2.21			
91	28.3	1.45	32.8	1.79	36.2	2.08	39.6	2.30	40.8	2.31	41.1	2.32	41.1	2.33			
93	28.3	1.51	32.8	1.87	36.2	2.17	39.6	2.36	40.5	2.37	40.5	2.38	40.5	2.40			
95	28.3	1.57	32.8	1.95	36.2	2.26	39.6	2.42	39.9	2.43	39.9	2.44	39.9	2.46			
99	28.3	1.70	32.8	2.11	36.2	2.45	38.7	2.54	38.7	2.56	38.7	2.57	38.7	2.58			
103	28.3	1.84	32.8	2.29	36.2	2.64	36.6	2.66	36.6	2.68	36.6	2.69	36.6	2.71			
106	28.3	1.95	32.8	2.42	34.7	2.73	34.7	2.75	34.7	2.77	34.7	2.78	34.7	2.78			
110	28.3	2.10	32.2	2.59	32.2	2.62	32.2	2.62	32.2	2.62	32.2	2.62	32.2	2.62			
115	28.3	2.69	29.1	3.08	29.1	3.09	29.1	3.10	29.1	3.11	29.1	3.11	29.1	3.12			
118	27.2	3.10	27.2	3.11	27.2	3.12	27.2	3.13	27.2	3.14	27.2	3.14	27.2	3.15			
122	24.6	2.82	24.6	2.83	24.6	2.84	24.6	2.85	24.6	2.86	24.6	2.86	24.6	2.87			
100	23	25.7	0.37	29.8	0.45	32.9	0.51	36.0	0.58	39.1	0.65	41.1	0.70	44.2	0.78		
	30	25.7	0.38	29.8	0.47	32.9	0.53	36.0	0.60	39.1	0.68	41.1	0.73	44.2	0.81		
	40	25.7	0.41	29.8	0.49	32.9	0.56	36.0	0.64	39.1	0.72	41.1	0.78	44.2	0.86		

RXLA48AAVJU Cooling Capacity for Standard Condition (Te: 43°F)

Table with columns for Connection ratio, Outdoor air temp., Indoor air temp. (°FWB) (57, 61, 64, 67, 70, 72, 75), and MBH, kW. Includes sub-sections for 130, 120, 110, 100, and 90 units.

TC: Total capacity: MBH
PI: Power input: kW (Compressor+Outdoor fan motor)
Note: 1. ■ is shown as reference.
2. This table shows the performance of the outdoor unit only, not the entire system.
3. Actual system performance may vary based on other factors such as indoor unit power consumption, piping losses, etc.

# 1.1.2 Celsius RXLA36AAVJU Cooling Capacity for Standard Condition (Te: 6°C)

Connection ratio	Outdoor air temp.	Indoor air temp. (°CWB)																	
		13.9		16.1		17.8		19.4		21.1		22.2		23.9					
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI				
%	°CDB	KW	KW	KW	KW	KW	KW	KW	KW	KW	KW	KW	KW	KW	KW	KW	KW	KW	
-5.0	9.80	0.52	11.4	0.64	12.5	0.74	13.7	0.85	14.9	0.96	15.7	1.02	16.3	1.03					
-1.1	9.80	0.54	11.4	0.67	12.5	0.77	13.7	0.88	14.9	1.00	15.7	1.03	15.9	1.04					
4.4	9.80	0.57	11.4	0.71	12.5	0.82	13.7	0.94	14.9	1.03	15.2	1.03	15.4	1.04					
10.0	9.80	0.66	11.4	0.82	12.5	0.94	13.7	1.08	14.5	1.10	14.7	1.11	14.9	1.11					
12.2	9.80	0.75	11.4	0.93	12.5	1.07	13.7	1.21	14.3	1.22	14.5	1.23	14.7	1.23					
14.4	9.80	0.84	11.4	1.04	12.5	1.21	13.7	1.33	14.1	1.34	14.3	1.35	14.5	1.35					
16.7	9.80	0.94	11.4	1.17	12.5	1.35	13.7	1.45	13.9	1.46	14.1	1.47	14.3	1.48					
18.9	9.80	1.04	11.4	1.30	12.5	1.50	13.5	1.57	13.7	1.58	13.9	1.59	14.1	1.60					
21.1	9.80	1.15	11.4	1.43	12.5	1.66	13.3	1.69	13.5	1.70	13.7	1.71	13.9	1.72					
22.2	9.80	1.21	11.4	1.51	12.5	1.74	13.2	1.75	13.4	1.76	13.5	1.77	13.7	1.78					
23.9	9.80	1.30	11.4	1.62	12.5	1.83	13.0	1.84	13.2	1.85	13.4	1.86	13.4	1.87					
26.1	9.80	1.42	11.4	1.72	12.5	1.95	12.8	1.96	13.0	1.97	13.1	1.98	13.1	2.00					
28.3	9.80	1.56	11.4	1.94	12.4	2.07	12.6	2.08	12.7	2.10	12.7	2.11	12.7	2.12					
30.6	9.80	1.70	11.4	2.12	12.2	2.19	12.4	2.22	12.4	2.23	12.4	2.23	12.4	2.25					
32.8	9.80	1.84	11.4	2.29	12.0	2.31	12.0	2.33	12.0	2.34	12.0	2.35	12.0	2.37					
33.9	9.80	1.92	11.4	2.35	11.9	2.37	11.9	2.39	11.9	2.41	11.9	2.42	11.9	2.43					
35.0	9.80	2.00	11.4	2.40	11.7	2.43	11.7	2.45	11.7	2.47	11.7	2.48	11.7	2.50					
37.2	9.80	2.17	11.3	2.54	11.3	2.55	11.3	2.57	11.3	2.59	11.3	2.61	11.3	2.61					
39.4	9.80	2.35	10.7	2.66	10.7	2.68	10.7	2.70	10.7	2.71	10.7	2.71	10.7	2.71					
41.1	9.80	2.49	10.2	2.75	10.2	2.77	10.2	2.78	10.2	2.78	10.2	2.78	10.2	2.78					
43.3	9.44	2.70	9.44	2.87	9.44	2.87	9.44	2.87	9.44	2.87	9.44	2.87	9.44	2.87					
46.1	8.51	3.07	8.51	3.08	8.51	3.09	8.51	3.10	8.51	3.11	8.51	3.11	8.51	3.12					
47.8	7.96	3.10	7.96	3.11	7.96	3.12	7.96	3.13	7.96	3.14	7.96	3.14	7.96	3.15					
50.0	7.22	2.82	7.22	2.83	7.22	2.84	7.22	2.85	7.22	2.86	7.22	2.87	7.22	2.87					
-5.0	9.04	0.47	10.5	0.57	11.6	0.66	12.7	0.75	13.7	0.85	14.5	0.92	15.6	1.02					
-1.1	9.04	0.49	10.5	0.60	11.6	0.69	12.7	0.78	13.7	0.89	14.5	0.96	15.6	1.03					
4.4	9.04	0.51	10.5	0.63	11.6	0.73	12.7	0.83	13.7	0.95	14.5	1.02	15.2	1.03					
10.0	9.04	0.59	10.5	0.73	11.6	0.84	12.7	0.96	13.7	1.08	14.4	1.10	14.7	1.11					
12.2	9.04	0.67	10.5	0.83	11.6	0.95	12.7	1.09	13.7	1.21	14.2	1.22	14.5	1.23					
14.4	9.04	0.75	10.5	0.93	11.6	1.07	12.7	1.23	13.7	1.33	14.0	1.34	14.2	1.34					
16.7	9.04	0.84	10.5	1.04	11.6	1.20	12.7	1.37	13.7	1.45	13.8	1.46	14.0	1.47					
18.9	9.04	0.93	10.5	1.15	11.6	1.33	12.7	1.53	13.5	1.57	13.8	1.58	13.8	1.59					
21.1	9.04	1.03	10.5	1.27	11.6	1.47	12.7	1.68	13.3	1.69	13.4	1.70	13.6	1.71					
22.2	9.04	1.08	10.5	1.34	11.6	1.55	12.7	1.74	13.2	1.75	13.2	1.76	13.5	1.77					
23.9	9.04	1.16	10.5	1.44	11.6	1.66	12.7	1.83	13.0	1.84	13.2	1.85	13.4	1.86					
26.1	9.04	1.27	10.5	1.57	11.6	1.82	12.6	1.95	12.8	1.96	13.0	1.97	13.1	1.98					
28.3	9.04	1.39	10.5	1.72	11.6	2.00	12.4	2.07	12.6	2.08	12.7	2.09	12.7	2.10					
30.6	9.04	1.51	10.5	1.88	11.6	2.18	12.2	2.19	12.4	2.20	12.4	2.21	12.4	2.23					
32.8	9.04	1.64	10.5	2.04	11.6	2.30	12.0	2.31	12.0	2.33	12.0	2.34	12.0	2.35					
33.9	9.04	1.71	10.5	2.13	11.6	2.36	11.9	2.37	11.9	2.39	11.9	2.40	11.9	2.41					
35.0	9.04	1.78	10.5	2.22	11.6	2.42	11.7	2.43	11.7	2.45	11.7	2.46	11.7	2.48					
37.2	9.04	1.93	10.5	2.41	11.3	2.54	11.3	2.56	11.3	2.57	11.3	2.59	11.3	2.60					
39.4	9.04	2.09	10.5	2.61	10.7	2.66	10.7	2.68	10.7	2.70	10.7	2.71	10.7	2.71					
41.1	9.04	2.21	10.2	2.73	10.2	2.75	10.2	2.77	10.2	2.78	10.2	2.78	10.2	2.78					
43.3	9.04	2.39	9.44	2.85	9.44	2.87	9.44	2.87	9.44	2.87	9.44	2.87	9.44	2.87					
46.1	8.51	3.07	8.51	3.08	8.51	3.09	8.51	3.10	8.51	3.11	8.51	3.11	8.51	3.12					
47.8	7.96	3.10	7.96	3.11	7.96	3.12	7.96	3.13	7.96	3.14	7.96	3.14	7.96	3.15					
50.0	7.22	2.82	7.22	2.83	7.22	2.84	7.22	2.85	7.22	2.86	7.22	2.87	7.22	2.87					
-5.0	8.29	0.42	9.62	0.51	10.6	0.58	11.6	0.66	12.6	0.75	13.3	0.81	14.3	0.90					
-1.1	8.29	0.43	9.62	0.53	10.6	0.61	11.6	0.69	12.6	0.78	13.3	0.84	14.3	0.94					
4.4	8.29	0.46	9.62	0.56	10.6	0.64	11.6	0.73	12.6	0.83	13.3	0.90	14.3	1.00					
10.0	8.29	0.53	9.62	0.64	10.6	0.74	11.6	0.84	12.6	0.95	13.3	1.03	14.3	1.10					
12.2	8.29	0.60	9.62	0.73	10.6	0.84	11.6	0.96	12.6	1.08	13.3	1.17	14.2	1.22					
14.4	8.29	0.68	9.62	0.82	10.6	0.94	11.6	1.08	12.6	1.22	13.3	1.32	14.0	1.34					
16.7	8.29	0.75	9.62	0.92	10.6	1.05	11.6	1.20	12.6	1.36	13.3	1.45	13.8	1.46					
18.9	8.29	0.83	9.62	1.02	10.6	1.17	11.6	1.34	12.6	1.51	13.3	1.57	13.6	1.58					
21.1	8.29	0.91	9.62	1.12	10.6	1.30	11.6	1.48	12.6	1.68	13.2	1.69	13.4	1.70					
22.2	8.29	0.96	9.62	1.18	10.6	1.36	11.6	1.55	12.6	1.74	13.1	1.75	13.3	1.76					
23.9	8.29	1.03	9.62	1.27	10.6	1.46	11.6	1.67	12.6	1.83	12.9	1.84	13.1	1.85					
26.1	8.29	1.12	9.62	1.39	10.6	1.60	11.6	1.83	12.6	1.95	12.7	1.96	12.9	1.97					
28.3	8.29	1.23	9.62	1.52	10.6	1.76	11.6	2.07	12.6	2.08	12.7	2.09	12.7	2.09					
30.6	8.29	1.33	9.62	1.65	10.6	1.91	11.6	2.18	12.2	2.19	12.3	2.20	12.2	2.21					
32.8	8.29	1.45	9.62	1.79	10.6	2.08	11.6	2.30	12.0	2.31	12.0	2.32	12.0	2.33					
33.9	8.29	1.51	9.62	1.87	10.6	2.17	11.6	2.36	11.9	2.37	11.9	2.38	11.9	2.40					
35.0	8.29	1.57	9.62	1.95	10.6	2.26	11.6	2.42	11.7	2.43	11.7	2.44	11.7	2.46					
37.2	8.29	1.70	9.62	2.11	10.6	2.45	11.3	2.54	11.3	2.56	11.3	2.57	11.3	2.58					
39.4	8.29	1.84	9.62	2.29	10.6	2.64	10.7	2.66	10.7	2.67	10.7</								

RXLA48AAVJU Cooling Capacity for Standard Condition (Te: 6°C)

Table with columns for Connection ratio, Outdoor air temp., Indoor air temp. (°CWB) (13.9, 16.1, 17.8, 19.4, 21.1, 22.2, 23.9), and kW values. Includes sub-sections for 130, 120, 110, and 100.

Table with columns for Connection ratio, Outdoor air temp., Indoor air temp. (°CWB) (13.9, 16.1, 17.8, 19.4, 21.1, 22.2, 23.9), and kW values. Includes sub-sections for 80, 70, 60, and 50.

TC: Total capacity: kW
PI: Power input: kW (Compressor+Outdoor fan motor)
Note: 1. is shown as reference.
2. This table shows the performance of the outdoor unit only, not the entire system.
3. Actual system performance may vary based on other factors such as indoor unit power consumption, piping losses, etc.

# 1.2 Heating Capacity for Standard Condition (Tc: 115°F (46°C))

## 1.2.1 Fahrenheit

### RXLA36AAVJU Heating Capacity for Standard Condition (Tc: 115°F)

Connection ratio	Outdoor air temp.		Indoor air temp. (°FDB)													
			61		65		68		70		72		75			
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
%	*FDB	*FWB	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW
130	-12.6	-13.0	23.2	3.43	23.2	3.43	23.2	3.43	23.2	3.43	23.2	3.43	23.2	3.43	23.2	3.43
	-9.0	-9.4	25.6	3.54	25.6	3.54	25.6	3.54	25.6	3.54	25.6	3.54	25.6	3.54	25.6	3.54
	-3.64	-4.0	29.2	3.70	29.2	3.70	29.2	3.70	29.2	3.70	29.2	3.70	29.2	3.70	29.2	3.70
	-1.84	-2.2	30.4	3.76	30.4	3.76	30.4	3.76	30.4	3.76	30.4	3.76	30.4	3.76	30.4	3.76
	5.5	5.0	35.2	3.98	35.2	3.98	35.2	3.98	35.2	3.98	35.2	3.98	35.2	3.98	35.2	3.98
	9.5	8.5	37.5	4.09	37.5	4.09	37.5	4.09	37.5	4.09	37.5	4.09	37.5	4.09	37.5	4.09
	13.0	12.0	39.9	4.20	39.9	4.20	39.9	4.20	39.9	4.20	39.9	4.20	39.9	4.20	39.9	4.20
	15.0	14.0	41.2	4.26	41.2	4.26	41.2	4.26	41.2	4.26	41.2	4.26	41.2	4.26	41.2	4.26
	17.0	15.5	42.2	4.31	42.2	4.31	42.2	4.31	42.2	4.31	42.2	4.31	42.2	4.31	42.2	4.31
	19.0	18.0	43.9	4.38	43.9	4.38	43.9	4.38	43.9	4.38	43.9	4.38	43.9	4.38	43.9	4.38
	22.0	20.0	45.2	4.45	45.2	4.45	45.2	4.45	45.2	4.45	45.2	4.45	45.2	4.45	45.2	4.45
	26.0	24.0	47.9	4.57	47.9	4.57	47.9	4.57	47.9	4.57	47.9	4.57	47.9	4.57	47.9	4.57
	30.0	28.0	50.5	4.69	50.5	4.69	50.5	4.69	50.5	4.69	50.5	4.69	50.5	4.69	50.5	4.69
	35.0	32.0	53.2	4.81	53.2	4.81	53.2	4.81	53.2	4.81	53.2	4.81	53.2	4.81	53.2	4.81
	39.0	36.0	55.9	4.93	55.9	4.93	55.9	4.93	55.9	4.93	55.9	4.93	55.9	4.93	55.9	4.93
	44.0	40.0	58.5	5.05	58.5	5.05	58.5	5.05	58.5	5.05	58.5	5.05	58.5	5.05	58.5	5.05
47.0	43.0	60.5	5.15	60.5	5.15	60.5	5.15	60.5	5.15	60.5	5.15	60.5	5.15	60.5	5.15	
51.0	47.0	62.4	5.24	62.4	5.24	62.4	5.24	62.4	5.24	62.4	5.24	62.4	5.24	62.4	5.24	
54.0	50.0	64.2	5.32	64.2	5.32	64.2	5.32	64.2	5.32	64.2	5.32	64.2	5.32	64.2	5.32	
57.0	53.0	65.9	5.39	65.9	5.39	65.9	5.39	65.9	5.39	65.9	5.39	65.9	5.39	65.9	5.39	
60.0	56.0	67.4	5.45	67.4	5.45	67.4	5.45	67.4	5.45	67.4	5.45	67.4	5.45	67.4	5.45	

Connection ratio	Outdoor air temp.		Indoor air temp. (°FDB)													
			61		65		68		70		72		75			
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
%	*FDB	*FWB	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW
80	-12.6	-13.0	23.2	3.43	23.2	3.43	23.2	3.43	23.2	3.43	23.2	3.43	23.2	3.43	23.2	3.43
	-9.0	-9.4	25.6	3.54	25.6	3.54	25.6	3.54	25.6	3.54	25.6	3.54	25.6	3.54	25.6	3.54
	-3.64	-4.0	29.2	3.70	29.2	3.70	29.2	3.70	29.2	3.70	29.2	3.70	29.2	3.70	29.2	3.70
	-1.84	-2.2	30.4	3.76	30.4	3.76	30.4	3.76	30.4	3.76	30.4	3.76	30.4	3.76	30.4	3.76
	5.5	5.0	35.2	3.98	35.2	3.98	35.2	3.98	35.2	3.98	35.2	3.98	35.2	3.98	35.2	3.98
	9.5	8.5	37.5	4.09	37.5	4.09	37.5	4.09	37.5	4.09	37.5	4.09	37.5	4.09	37.5	4.09
	13.0	12.0	39.9	4.20	39.9	4.20	39.9	4.20	39.9	4.20	39.9	4.20	39.9	4.20	39.9	4.20
	15.0	14.0	41.2	4.26	41.2	4.26	41.2	4.26	41.2	4.26	41.2	4.26	41.2	4.26	41.2	4.26
	17.0	15.5	42.2	4.31	42.2	4.31	42.2	4.31	42.2	4.31	42.2	4.31	42.2	4.31	42.2	4.31
	19.0	18.0	43.9	4.38	43.9	4.38	43.9	4.38	43.9	4.38	43.9	4.38	43.9	4.38	43.9	4.38
	22.0	20.0	45.2	4.45	45.2	4.45	45.2	4.45	45.2	4.45	45.2	4.45	45.2	4.45	45.2	4.45
	26.0	24.0	47.9	4.57	47.9	4.57	47.9	4.57	47.9	4.57	47.9	4.57	47.9	4.57	47.9	4.57
	30.0	28.0	50.5	4.69	50.5	4.69	50.5	4.69	50.5	4.69	50.5	4.69	50.5	4.69	50.5	4.69
	35.0	32.0	53.2	4.81	53.2	4.81	53.2	4.81	53.2	4.81	53.2	4.81	53.2	4.81	53.2	4.81
	39.0	36.0	55.9	4.93	55.9	4.93	55.9	4.93	55.9	4.93	55.9	4.93	55.9	4.93	55.9	4.93
	44.0	40.0	58.5	5.05	58.5	5.05	58.5	5.05	58.5	5.05	58.5	5.05	58.5	5.05	58.5	5.05
47.0	43.0	60.5	5.15	60.5	5.15	60.5	5.15	60.5	5.15	60.5	5.15	60.5	5.15	60.5	5.15	
51.0	47.0	62.4	5.24	62.4	5.24	62.4	5.24	62.4	5.24	62.4	5.24	62.4	5.24	62.4	5.24	
54.0	50.0	64.2	5.32	64.2	5.32	64.2	5.32	64.2	5.32	64.2	5.32	64.2	5.32	64.2	5.32	
57.0	53.0	65.9	5.39	65.9	5.39	65.9	5.39	65.9	5.39	65.9	5.39	65.9	5.39	65.9	5.39	
60.0	56.0	67.4	5.45	67.4	5.45	67.4	5.45	67.4	5.45	67.4	5.45	67.4	5.45	67.4	5.45	

TC: Total capacity; MBH  
 PI: Power input: kW (Compressor+Outdoor fan motor)  
 Note: 1. ■ is shown as reference.  
 2. This table shows the performance of the outdoor unit only, not the entire system.  
 3. Actual system performance may vary based on other factors such as indoor unit power consumption, piping losses, etc.

RXLA48AAVJU Heating Capacity for Standard Condition (Tc: 115°F)

Table with columns for Connection ratio, Outdoor air temp., Indoor air temp. (°FDB) for 61, 65, 68, 70, 72, 75. Rows include connection ratios 130, 120, 110, 100, 90 and various temperature points.

Table with columns for Connection ratio, Outdoor air temp., Indoor air temp. (°FDB) for 61, 65, 68, 70, 72, 75. Rows include connection ratios 80, 70, 60, 50 and various temperature points.

TC: Total capacity: MBH
PI: Power input: kW (Compressor+Outdoor fan motor)
Note: 1. [ ] is shown as reference.

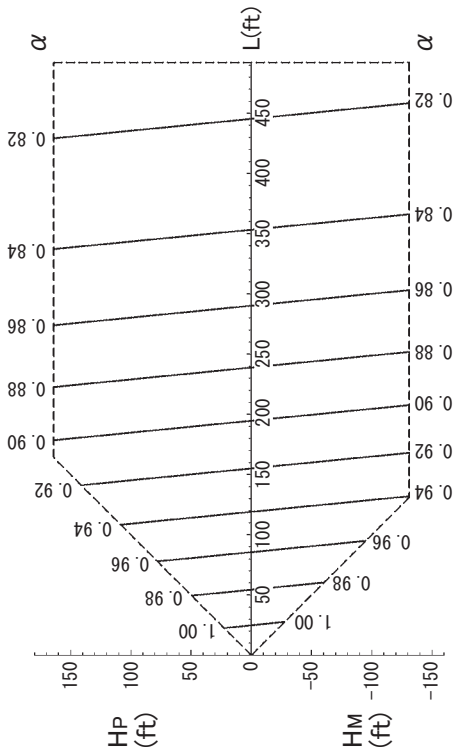
- 2. This table shows the performance of the outdoor unit only, not the entire system.
3. Actual system performance may vary based on other factors such as indoor unit power consumption, piping losses, etc.





### 1.3 Capacity Correction Factor RXLA36 - 48AAVJU

#### 1. Rate of change in cooling capacity



[Notes]

- These figures illustrate the rate of change in capacity of a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions there is only a minor deviation from the rate of change in capacity shown in the above figures.
- With this outdoor unit, evaporating pressure constant control when cooling, and condensing pressure constant control when heating is carried out.
- Method of calculating cooling/heating capacity (max. capacity for combination with standard indoor unit)

$$\text{cooling/heating capacity} = \left[ \frac{\text{cooling/heating capacity obtained from performance characteristic table}}{\text{each capacity rate of change}} \right] \times \text{capacity rate of change for each piping length}$$

In the case length of piping differs depending on the indoor unit, maximum capacity of each unit during simultaneous operation is:

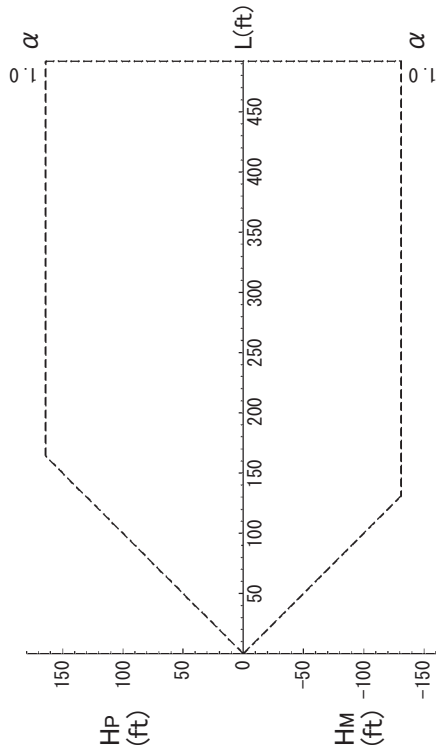
$$\text{cooling/heating capacity} = \left[ \frac{\text{cooling/heating capacity of each unit}}{\text{capacity rate of change for each piping length}} \right] \times \text{capacity rate of change for each piping length}$$

- When overall equivalent pipe length is 295ft (90m) or more, the diameter of the main gas pipe (outdoor unit-branch sections) must be increased.

[Diameter of above case]

MODEL	GAS	LIQUID	Unit: in. (mm)
RXLA36 · 48AAVJU	Φ3/4 (19.1)	Φ3/8 (9.5)	

#### 2. Rate of change in heating capacity



[Explanation of symbols]

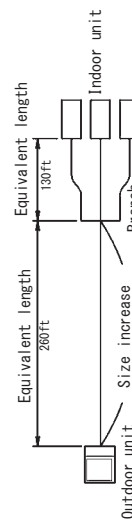
- H<sub>b</sub>: Level difference (ft) between indoor and outdoor units where indoor unit in inferior position
- H<sub>t</sub>: Level difference (ft) between indoor and outdoor units where indoor unit in superior position
- L: Equivalent pipe length (ft)
- α: Capacity correction factor

[Diameter of pipes]

MODEL	GAS	LIQUID	Unit: in. (mm)
RXLA36 · 48AAVJU	Φ5/8 (15.9)	Φ3/8 (9.5)	

- When the main sections of the interunit gas pipe diameters are increased the overall equivalent length should be calculated as follows.

$$\text{Overall equivalent length} = \text{Equivalent length to main pipe} \times 0.5 + \text{Equivalent length after branching}$$



In the above case (Cooling)  
Overall equivalent length = 260ft × 0.5 + 130ft = 260ft  
The correction factor in capacity when H<sub>b</sub>=0ft is thus approximately 0.87

### 1.4 Notes for Heating Capacity Characteristics (Heat Pump) RXLA36 - 48AAVJU

- The capacity tables do not account for the reduction in capacity during frost accumulation or operation in defrost mode. Heating capacity which takes the above mentioned factors into consideration can be calculated as follows:

**Formula**

Heating capacity = A × B

A = Capacity value given in the capacity tables

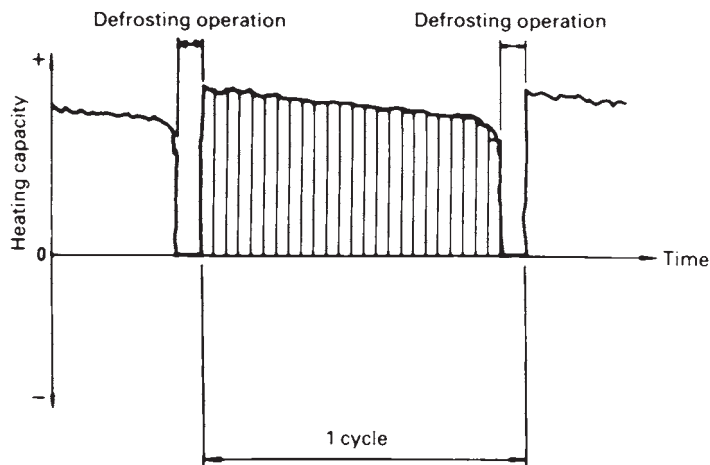
B = Correction factor for frost accumulation

- Correction factor for frost accumulation (B)

Inlet air temperature to the outdoor unit heat exchanger (°FDB/RH85%)	≤19.5	23.0	26.5	32.0	37.5	41.0	44.5
Correction factor for frost accumulation	0.95	0.93	0.88	0.84	0.85	0.90	1.00

**Note:**

Correction factor for frost accumulation calculated from integrated heating capacity while 1 cycle (between 2 defrosting operations) as shown in figure below.



- Accumulation of frost and / or snow on the outdoor unit heat exchanger leads to a temporary reduction in capacity. The degree of capacity reduction depends on factors such as outdoor temperature (DB), relative humidity (RH), amount of frost, etc.





**Warning**



- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any inquiries, please contact your local importer, distributor and/or retailer.

### **Cautions on product corrosion**

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.