

Evaporating Temperature, °C

R407C

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
27.0	1.58	2.03	2.57	3.19	3.91	4.72	5.63	6.02	6.64	7.18
32.0	1.48	1.92	2.43	3.02	3.70	4.47	5.33	5.70	6.28	6.80
38.0		1.78	2.25	2.80	3.43	4.15	4.95	5.30	5.84	6.32
43.0				2.61	3.20	3.87	4.62	4.94	5.46	5.90
46.0				2.49	3.05	3.69	4.41	4.72	5.22	5.65
49.0					2.90	3.51	4.20	4.50	4.97	

R448A

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	
27.0	1.94	2.43	2.99	3.62	4.34	5.15	6.03	6.41	7.00	
32.0		2.30	2.82	3.42	4.10	4.85	5.68	6.03	6.59	
38.0			2.62	3.17	3.79	4.49	5.25	5.57	6.08	
43.0			2.45	2.96	3.53	4.18	4.88	5.18	5.65	
46.0				2.83	3.38	3.99	4.66			
49.0				2.70	3.22					

R449A

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	
27.0	1.95	2.44	3.00	3.64	4.36	5.16	6.05	6.43	7.03	
32.0		2.30	2.83	3.43	4.11	4.87	5.70	6.06	6.61	
38.0			2.63	3.18	3.81	4.50	5.27	5.60	6.11	
43.0			2.45	2.97	3.55	4.19	4.90	5.21	5.68	
46.0				2.84	3.39	4.01	4.68			
49.0				2.71	3.23					

R454C

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	
27.0	1.85	2.31	2.83	3.42	4.10	4.85	5.67	6.02	6.57	
32.0	1.72	2.14	2.63	3.19	3.83	4.53	5.31	5.64	6.16	
38.0	1.56	1.95	2.40	2.92	3.50	4.15	4.87	5.18	5.66	
43.0	1.42	1.78	2.20	2.68	3.22	3.83	4.50	4.79	5.24	
46.0	1.34	1.68	2.08	2.54	3.05	3.63	4.27	4.55	4.98	
49.0		1.58	1.96	2.39	2.88	3.43				

R455A

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	
27.0	2.07	2.54	3.09	3.70	4.38	5.13	5.95	6.29	6.82	
32.0	1.92	2.36	2.87	3.44	4.08	4.78	5.54	5.87	6.37	
38.0	1.74	2.14	2.60	3.13	3.71	4.35	5.06	5.36	5.82	
43.0	1.59	1.96	2.38	2.86	3.40	4.00	4.65	4.93	5.36	
46.0	1.50	1.85	2.25	2.70	3.21	3.78				
49.0		1.74	2.12	2.54	3.02					

Evaporating Temperature, °C

R407C

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
27.0	2.28	2.87	3.58	4.39	5.33	6.38	7.56	8.06	8.85	9.53
32.0	2.14	2.71	3.37	4.14	5.02	6.01	7.11	7.59	8.33	8.97
38.0			3.12	3.83	4.64	5.55	6.57	7.00	7.69	8.28
43.0				3.56	4.31	5.15	6.10	6.51	7.14	7.70
46.0					4.10	4.91	5.81	6.20	6.81	
49.0						4.66				

R448A

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	
27.0	2.68	3.32	4.06	4.91	5.87	6.93	8.09	8.58	9.34	
32.0		3.15	3.84	4.64	5.53	6.52	7.59	8.05	8.75	
38.0			3.57	4.30	5.11	6.01	6.99	7.40	8.04	
43.0				4.00	4.75	5.57				
46.0				3.82	4.53					
49.0										

R449A

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	
27.0	2.68	3.33	4.08	4.93	5.89	6.95	8.11	8.61	9.37	
32.0		3.16	3.86	4.65	5.55	6.54	7.62	8.08	8.79	
38.0			3.58	4.31	5.13	6.03	7.01	7.43	8.07	
43.0				4.02	4.77	5.59				
46.0				3.84	4.54					
49.0										

R454C

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	
27.0	2.57	3.19	3.91	4.73	5.66	6.69	7.83	8.31	9.05	
32.0	2.40	2.98	3.65	4.42	5.29	6.25	7.31	7.76	8.46	
38.0	2.20	2.73	3.34	4.04	4.83	5.71	6.68	7.10	7.74	
43.0	2.02	2.51	3.07	3.71	4.44	5.25	6.15	6.53	7.13	
46.0	1.92	2.38	2.91	3.52	4.20	4.98	5.83			
49.0		2.24	2.74	3.31	3.96	4.69				

R455A

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	
27.0	2.90	3.55	4.30	5.14	6.08	7.10	8.19	8.66	9.36	
32.0	2.70	3.31	4.01	4.79	5.65	6.60	7.63	8.06	8.72	
38.0	2.46	3.01	3.64	4.35	5.14	6.00	6.94	7.33	7.94	
43.0	2.25	2.76	3.33	3.98	4.70	5.49	6.35			
46.0	2.12	2.60	3.14	3.75	4.43	5.18				
49.0		2.44	2.95	3.52						

Evaporating Temperature, °C

R407C

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
27.0	3.24	4.09	5.09	6.25	7.58	9.08	10.75	11.45	12.60	13.55
32.0	3.05	3.84	4.78	5.87	7.12	8.54	10.10	10.80	11.85	12.75
38.0			4.41	5.41	6.56	7.87	9.33	9.95	10.95	11.80
43.0				5.02	6.09	7.30	8.66	9.24	10.15	10.95
46.0					5.80	6.95	8.24	8.80		
49.0						6.59				

R448A

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	
27.0	3.82	4.73	5.78	6.99	8.34	9.84	11.50	12.20	13.25	
32.0		4.47	5.46	6.58	7.85	9.25	10.80	11.45	12.45	
38.0			5.06	6.09	7.24	8.52	9.91	10.50	11.40	
43.0				5.66	6.72	7.89				
46.0				5.40	6.40					
49.0										

R449A

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	
27.0	3.83	4.74	5.80	7.01	8.36	9.87	11.50	12.20	13.30	
32.0		4.49	5.48	6.61	7.87	9.28	10.80	11.45	12.50	
38.0			5.08	6.11	7.27	8.55	9.95	10.55	11.45	
43.0				5.68	6.75	7.92				
46.0				5.42	6.43					
49.0										

R454C

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	
27.0	3.65	4.51	5.51	6.64	7.92	9.34	10.90	11.55	12.60	
32.0	3.40	4.20	5.13	6.19	7.39	8.71	10.15	10.80	11.75	
38.0	3.09	3.83	4.67	5.64	6.73	7.94	9.27	9.84	10.70	
43.0	2.83	3.51	4.28	5.17	6.17	7.28	8.51	9.04		
46.0	2.67	3.31	4.04	4.88	5.82	6.88				
49.0		3.11	3.80	4.59	5.48					

R455A

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	
27.0	4.10	4.99	6.00	7.15	8.44	9.86	11.40	12.05	13.05	
32.0	3.83	4.65	5.59	6.65	7.85	9.16	10.60	11.20	12.15	
38.0	3.48	4.23	5.08	6.04	7.12	8.32	9.62	10.15	11.00	
43.0	3.18	3.87	4.65	5.53	6.51	7.60				
46.0	3.00	3.65	4.39	5.21	6.14					
49.0		3.43	4.12	4.89						

Evaporating Temperature, °C

R407C

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
27.0	4.10	5.20	6.48	7.96	9.64	11.55	13.65	14.55	15.95	17.20
32.0	3.84	4.88	6.10	7.51	9.10	10.90	12.90	13.75	15.10	16.30
38.0			5.63	6.94	8.43	10.10	12.00	12.80	14.05	15.15
43.0				6.45	7.85	9.42	11.20	11.95	13.10	14.15
46.0					7.49	9.00	10.70	11.40	12.55	
49.0						8.57	10.20			

R448A

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	
27.0	4.82	6.00	7.36	8.90	10.65	12.55	14.65	15.55	16.90	
32.0		5.67	6.95	8.40	10.05	11.85	13.80	14.65	15.95	
38.0			6.45	7.79	9.29	10.95	12.75	13.50	14.70	
43.0				7.26	8.65	10.20	11.85			
46.0				6.94	8.26					
49.0										

R449A

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	
27.0	4.83	6.02	7.38	8.92	10.65	12.60	14.70	15.60	16.95	
32.0		5.69	6.98	8.43	10.05	11.85	13.85	14.70	16.00	
38.0			6.47	7.82	9.32	11.00	12.80	13.55	14.75	
43.0				7.29	8.68	10.20	11.90	12.60		
46.0				6.97	8.29	9.76				
49.0										

R454C

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	
27.0	4.62	5.72	6.98	8.41	10.05	11.85	13.80	14.65	15.95	
32.0	4.30	5.33	6.51	7.86	9.37	11.05	12.90	13.70	14.95	
38.0	3.91	4.85	5.94	7.17	8.57	10.15	11.85	12.55	13.70	
43.0	3.58	4.45	5.45	6.59	7.88	9.33	10.90	11.60	12.65	
46.0	3.38	4.20	5.15	6.24	7.46	8.84	10.35			
49.0		3.96	4.85	5.88	7.04					

R455A

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	
27.0	5.18	6.32	7.62	9.09	10.75	12.55	14.50	15.30	16.60	
32.0	4.83	5.89	7.11	8.48	10.00	11.70	13.55	14.30	15.50	
38.0	4.40	5.37	6.48	7.73	9.13	10.70	12.40	13.10	14.20	
43.0	4.03	4.93	5.94	7.09	8.38	9.82	11.40			
46.0	3.81	4.66	5.62	6.70	7.93	9.29				
49.0		4.38	5.28	6.31						

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COPELAND

Evaporating Temperature, °C

R407C

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
27.0	4.82	6.09	7.57	9.26	11.20	13.30	15.65	16.65	18.25	19.60
32.0	4.50	5.72	7.13	8.74	10.55	12.60	14.80	15.75	17.25	18.55
38.0			6.59	8.09	9.78	11.65	13.75	14.65	16.05	17.25
43.0				7.53	9.12	10.90	12.85	13.70	15.00	16.15
46.0					8.71	10.40	12.30	13.10		
49.0						9.93				

R448A

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	
27.0	5.65	7.05	8.63	10.40	12.40	14.55	16.90	17.90	19.45	
32.0		6.65	8.15	9.83	11.70	13.75	15.95	16.85	18.30	
38.0			7.55	9.10	10.80	12.70	14.70	15.55	16.85	
43.0				8.47	10.05	11.80				
46.0				8.08	9.59					
49.0										

R449A

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	
27.0	5.66	7.07	8.66	10.45	12.45	14.60	17.00	17.95	19.50	
32.0		6.67	8.18	9.86	11.75	13.75	16.00	16.90	18.35	
38.0			7.58	9.13	10.85	12.75	14.75	15.60	16.90	
43.0				8.50	10.10	11.85				
46.0				8.12	9.63					
49.0										

R454C

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	
27.0	5.41	6.68	8.14	9.79	11.65	13.70	15.90	16.85	18.30	
32.0	5.02	6.22	7.59	9.13	10.85	12.80	14.90	15.75	17.15	
38.0	4.56	5.66	6.91	8.33	9.93	11.70	13.65	14.45	15.70	
43.0	4.17	5.18	6.34	7.65	9.13	10.75	12.55	13.30		
46.0	3.93	4.90	5.99	7.24	8.64	10.20				
49.0		4.61	5.65	6.82	8.15					

R455A

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	
27.0	6.06	7.39	8.90	10.60	12.45	14.55	16.75	17.65	19.10	
32.0	5.65	6.89	8.30	9.88	11.65	13.55	15.65	16.50	17.85	
38.0	5.14	6.28	7.56	9.00	10.60	12.35	14.25	15.10		
43.0	4.72	5.75	6.93	8.25	9.73	11.35				
46.0	4.46	5.44	6.55	7.80	9.20					
49.0		5.12	6.16	7.34						

Evaporating Temperature, °C

R407C

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
27.0	6.06	7.67	9.53	11.65	14.10	16.80	19.75	21.00	23.00	24.70
32.0	5.66	7.19	8.96	11.00	13.25	15.85	18.65	19.85	21.70	23.40
38.0			8.25	10.15	12.25	14.65	17.25	18.40	20.10	21.70
43.0					11.40	13.60	16.05	17.10	18.75	
46.0					10.85	12.95	15.35			
49.0						12.30				

R448A

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	
27.0		8.85	10.80	13.00	15.50	18.20	21.10	22.30	24.20	
32.0		8.35	10.20	12.30	14.60	17.10	19.85	21.00	22.80	
38.0			9.44	11.35	13.45	15.80	18.30	19.35		
43.0				10.55	12.50	14.65				
46.0				10.05						
49.0										

R449A

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	
27.0		8.87	10.85	13.05	15.50	18.25	21.20	22.40	24.30	
32.0		8.38	10.25	12.30	14.65	17.15	19.90	21.10	22.80	
38.0			9.48	11.40	13.50	15.85	18.35	19.40	21.00	
43.0				10.60	12.55	14.70				
46.0				10.10						
49.0										

R454C

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	
27.0	6.74	8.30	10.10	12.10	14.35	16.80	19.45	20.60	22.30	
32.0	6.26	7.72	9.39	11.25	13.35	15.65	18.15	19.20	20.80	
38.0	5.67	7.01	8.53	10.25	12.15	14.25	16.55	17.50	19.00	
43.0	5.18	6.41	7.80	9.38	11.15	13.10				
46.0	4.88	6.04	7.36	8.85	10.50					
49.0		5.67	6.91	8.32						

R455A

Ambient °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	
27.0	7.57	9.19	11.05	13.10	15.35	17.80	20.50	21.60	23.30	
32.0	7.04	8.56	10.25	12.20	14.30	16.60	19.05	20.10	21.70	
38.0	6.40	7.77	9.32	11.05	13.00	15.10	17.35			
43.0	5.85	7.11	8.52	10.10	11.85					
46.0	5.51	6.70	8.03	9.53						
49.0		6.28	7.53							