



Expansion valves



Table of content:

Refrigerant	Page
R22	4
R134a	6
R404A	8
R407C	10
R410A	12
R413A	14
R417A	16
R507	18
Nominal capacity charts	20
Fax inquiry Expansion Valves	22

Honeywell	Quick selection table Cooling capacity Q₀ (kW)	for all Expansion Valve series	R22
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Condensing temperature t _c (°C)	Orifice size	Evaporating temperature t ₀ (°C)														
		+ 30	+ 20	+ 10	+ 5	± 0	- 5	- 10	- 15	- 20	- 25	- 30	- 35	- 40	- 45	- 50
+ 50	0.3	0.39	0.47	0.52	0.54	0.55	0.56	0.56	0.50	0.43	0.38	0.32	0.27	0.23	0.19	0.16
	0.5	0.75	0.89	0.98	1.01	1.04	1.06	1.07	0.94	0.82	0.71	0.61	0.52	0.43	0.36	0.29
	0.7	1.02	1.22	1.35	1.39	1.42	1.44	1.46	1.29	1.13	0.98	0.83	0.71	0.59	0.49	0.40
	1.0	1.50	1.79	1.97	2.03	2.08	2.11	2.13	1.88	1.65	1.43	1.22	1.03	0.86	0.72	0.59
	1.5	2.40	2.87	3.16	3.26	3.33	3.39	3.42	3.03	2.65	2.29	1.96	1.66	1.39	1.15	0.94
	2.0	3.03	3.62	3.99	4.11	4.21	4.28	4.32	3.82	3.34	2.89	2.47	2.09	1.75	1.45	1.19
	2.5	4.37	5.22	5.75	5.93	6.07	6.16	6.23	5.51	4.82	4.17	3.56	3.02	2.53	2.09	1.72
	3.0	6.97	8.33	9.17	9.46	9.67	9.83	9.93	8.78	7.68	6.64	5.68	4.81	4.03	3.34	2.74
	3.5	9.22	11.01	12.12	12.50	12.79	12.99	13.13	11.61	10.16	8.78	7.51	6.36	5.32	4.41	3.62
	4.5	12.84	15.33	16.89	17.41	17.82	18.10	18.29	16.17	14.15	12.24	10.46	8.86	7.42	6.14	5.04
	4.75	16.94	20.23	22.27	22.97	23.50	23.88	24.13	21.33	18.66	16.14	13.79	11.68	9.78	8.10	6.65
	5	21.98	26.25	28.90	29.81	30.49	30.99	31.31	27.67	24.22	20.95	17.90	15.16	12.70	10.52	8.63
	6	32.06	38.29	42.16	43.48	44.48	45.20	45.67	40.37	35.33	30.56	26.11	22.12	18.52	15.34	12.59
	7	41.20	49.20	54.18	55.88	57.16	58.08	58.69	51.88	45.40	39.27	33.56	28.42	23.80	19.72	16.18
8	48.53	57.95	63.81	65.81	67.33	68.41	69.13	61.10	53.47	46.25	39.52	33.48	28.03	23.22	19.05	
10	56.80	67.82	74.69	77.03	78.80	80.07	80.91	71.52	62.59	54.14	46.26	39.18	32.81	27.18	22.30	
11	72.55	86.63	95.40	98.39	100.7	102.3	103.4	91.30	79.95	69.20	59.28	50.27	42.12	34.87	28.54	
+ 40	0.3	0.38	0.46	0.48	0.51	0.52	0.53	0.47	0.42	0.36	0.31	0.27	0.22	0.19	0.15	
	0.5	0.73	0.87	0.92	0.96	0.98	1.01	0.90	0.79	0.69	0.59	0.50	0.42	0.35	0.29	
	0.7	0.99	1.19	1.26	1.31	1.35	1.38	1.23	1.08	0.94	0.81	0.69	0.58	0.48	0.40	
	1.0	1.45	1.74	1.83	1.91	1.97	2.01	1.79	1.58	1.38	1.18	1.01	0.85	0.70	0.58	
	1.5	2.33	2.79	2.95	3.07	3.16	3.23	2.88	2.54	2.21	1.90	1.62	1.36	1.13	0.93	
	2.0	2.94	3.52	3.72	3.87	3.99	4.07	3.63	3.20	2.79	2.40	2.04	1.72	1.43	1.17	
	2.5	4.24	5.07	5.36	5.58	5.75	5.87	5.24	4.62	4.02	3.45	2.94	2.47	2.06	1.69	
	3.0	6.76	8.09	8.55	8.90	9.17	9.37	8.35	7.37	6.41	5.51	4.69	3.94	3.28	2.70	
	3.5	8.93	10.70	11.30	11.77	12.12	12.38	11.04	9.74	8.48	7.28	6.20	5.21	4.33	3.57	
	4.5	12.45	14.90	15.74	16.39	16.89	17.25	15.39	13.57	11.81	10.15	8.64	7.26	6.04	4.97	
	4.75	16.42	19.66	20.76	21.62	22.27	22.76	20.29	17.89	15.58	13.38	11.39	9.58	7.97	6.56	
	5	21.30	25.51	26.94	28.06	28.91	29.53	26.34	23.22	20.21	17.37	14.78	12.43	10.34	8.51	
	6	31.08	37.21	39.30	40.93	42.17	43.08	38.42	33.87	29.49	25.34	21.56	18.13	15.08	12.42	
	7	39.93	47.82	50.50	52.59	54.18	55.36	49.37	43.53	37.89	32.56	27.71	23.30	19.38	15.96	
8	47.03	56.32	59.49	61.95	63.82	65.20	58.15	51.27	44.63	38.35	32.64	27.45	22.82	18.79		
10	55.05	65.92	69.63	72.50	74.70	76.31	68.06	60.01	52.24	44.88	38.20	32.12	26.71	22.00		
11	70.30	84.18	88.91	92.58	95.38	97.45	86.86	76.63	66.75	57.50	48.99	41.22	34.26	28.14		
+ 35	0.3	0.32	0.41	0.45	0.47	0.49	0.51	0.45	0.40	0.36	0.32	0.26	0.22	0.18	0.15	
	0.5	0.60	0.79	0.85	0.90	0.93	0.96	0.86	0.76	0.67	0.58	0.49	0.41	0.35	0.28	
	0.7	0.82	1.08	1.16	1.23	1.28	1.31	1.18	1.05	0.91	0.79	0.67	0.57	0.47	0.39	
	1.0	1.20	1.57	1.70	1.79	1.87	1.92	1.72	1.53	1.34	1.15	0.98	0.83	0.69	0.57	
	1.5	1.93	2.53	2.72	2.88	3.00	3.08	2.77	2.45	2.14	1.85	1.58	1.33	1.11	0.91	
	2.0	2.43	3.19	3.44	3.63	3.78	3.89	3.49	3.10	2.71	2.33	1.99	1.68	1.40	1.15	
	2.5	3.50	4.60	4.96	5.24	5.45	5.61	5.04	4.46	3.90	3.36	2.87	2.42	2.02	1.66	
	3.0	5.59	7.33	7.90	8.35	8.69	8.95	8.03	7.12	6.22	5.36	4.58	3.86	3.22	2.65	
	3.5	7.39	9.69	10.45	11.04	11.49	11.83	10.62	9.41	8.22	7.09	6.05	5.10	4.25	3.51	
	4.5	10.29	13.50	14.56	15.38	16.01	16.49	14.79	13.11	11.46	9.88	8.43	7.11	5.92	4.89	
	4.75	13.57	17.81	19.20	20.28	21.12	21.74	19.51	17.29	15.11	13.03	11.12	9.38	7.81	6.45	
	5	17.61	23.11	24.92	26.32	27.40	28.22	25.32	22.44	19.61	16.91	14.43	12.17	10.14	8.36	
	6	25.69	33.71	36.35	38.40	39.98	41.16	36.94	32.73	28.61	24.66	21.05	17.75	14.79	12.20	
	7	33.02	43.32	46.71	49.34	51.37	52.90	47.47	42.06	36.76	31.69	27.05	22.81	19.00	15.68	
8	38.89	51.02	55.02	58.12	60.50	62.30	55.91	49.54	43.30	37.33	31.86	26.86	22.38	18.47		
10	45.52	59.72	64.40	68.02	70.82	72.92	65.44	57.98	50.68	43.69	37.29	31.44	26.20	21.61		
11	58.11	76.24	82.21	86.84	90.41	93.10	83.50	74.03	64.74	56.00	47.82	40.33	33.59	27.65		

Capacities are based on 1 K subcooling and 1.5 bar pressure drop within the circuit.
For other conditions use the Honeywell valve calculation software.

Honeywell	Quick selection table Cooling capacity Q₀ (kW)	for all Expansion Valve series	R22
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Condensing temperature t _c (°C)	Orifice size	Evaporating temperature t ₀ (°C)														
		+ 30	+ 20	+ 10	+ 5	± 0	- 5	- 10	- 15	- 20	- 25	- 30	- 35	- 40	- 45	- 50
+ 30	0.3			0.36	0.40	0.43	0.46	0.48	0.43	0.39	0.34	0.29	0.25	0.21	0.18	0.15
	0.5			0.68	0.76	0.82	0.87	0.91	0.82	0.73	0.64	0.56	0.48	0.40	0.34	0.28
	0.7			0.94	1.04	1.13	1.19	1.24	1.12	1.00	0.88	0.76	0.65	0.55	0.46	0.38
	1.0			1.37	1.53	1.65	1.74	1.81	1.64	1.46	1.28	1.11	0.95	0.80	0.67	0.56
	1.5			2.19	2.45	2.64	2.79	2.91	2.63	2.35	2.06	1.78	1.53	1.29	1.08	0.89
	2.0			2.77	3.09	3.34	3.53	3.67	3.32	2.96	2.60	2.25	1.93	1.63	1.36	1.13
	2.5			3.99	4.46	4.81	5.08	5.29	4.79	4.27	3.75	3.25	2.78	2.35	1.96	1.62
	3.0			6.37	7.11	7.67	8.11	8.44	7.63	6.81	5.98	5.18	4.43	3.75	3.13	2.59
	3.5			8.42	9.39	10.14	10.72	11.15	10.09	9.00	7.90	6.84	5.86	4.95	4.14	3.42
	4.5			11.73	13.09	14.13	14.93	15.54	14.06	12.53	11.01	9.53	8.16	6.90	5.76	4.77
	4.75			15.47	17.26	18.64	19.69	20.50	18.54	16.53	14.52	12.57	10.77	9.10	7.60	6.29
	5			20.07	22.40	24.18	25.55	26.60	24.06	21.46	18.85	16.31	13.97	11.81	9.87	8.16
	6			29.28	32.68	35.28	37.28	38.80	35.10	31.30	27.49	23.80	20.38	17.23	14.39	11.90
	7			37.63	42.00	45.34	47.90	49.86	45.10	40.22	35.33	30.58	26.19	22.14	18.50	15.29
8			44.32	49.46	53.40	56.42	58.72	53.13	47.37	41.61	36.02	30.85	26.08	21.79	18.01	
10			51.87	57.89	62.50	66.04	68.73	62.18	55.45	48.70	42.16	36.11	30.53	25.50	21.08	
11			66.22	73.91	79.79	84.31	87.75	79.34	70.79	62.22	54.00	46.30	39.16	32.69	26.97	
+ 25	0.3			0.18	0.27	0.33	0.37	0.40	0.37	0.34	0.30	0.27	0.23	0.20	0.16	0.14
	0.5			0.55	0.66	0.73	0.79	0.84	0.77	0.69	0.61	0.53	0.46	0.39	0.32	0.27
	0.7			0.75	0.90	1.01	1.09	1.15	1.05	0.95	0.84	0.73	0.63	0.53	0.44	0.37
	1.0			1.10	1.31	1.47	1.59	1.68	1.54	1.38	1.22	1.06	0.91	0.78	0.65	0.54
	1.5			1.76	2.11	2.36	2.55	2.70	2.47	2.22	1.96	1.71	1.47	1.24	1.04	0.86
	2.0			2.22	2.66	2.98	3.22	3.40	3.11	2.80	2.47	2.15	1.85	1.57	1.32	1.09
	2.5			3.20	3.83	4.29	4.64	4.91	4.49	4.04	3.57	3.10	2.67	2.26	1.90	1.57
	3.0			5.11	6.11	6.84	7.40	7.82	7.16	6.43	5.69	4.95	4.26	3.61	3.02	2.51
	3.5			6.75	8.08	9.05	9.78	10.34	9.46	8.51	7.52	6.54	5.63	4.77	4.00	3.31
	4.5			9.41	11.25	12.61	13.63	14.41	13.18	11.85	10.48	9.12	7.84	6.65	5.57	4.62
	4.75			12.41	14.84	16.63	17.98	19.00	17.39	15.63	13.82	12.03	10.34	8.77	7.35	6.09
	5			16.10	19.26	21.58	23.33	24.66	22.56	20.29	17.93	15.60	13.42	11.38	9.54	7.90
	6			23.49	28.10	31.48	34.03	35.98	32.91	29.59	26.16	22.76	19.58	16.61	13.91	11.53
	7			30.19	36.11	40.45	43.73	46.23	42.29	38.03	33.62	29.25	25.15	21.34	17.87	14.81
8			35.55	42.53	47.64	51.51	54.45	49.81	44.79	39.60	34.45	29.63	25.13	21.05	17.45	
10			41.61	49.78	55.77	60.29	63.73	58.30	52.42	46.35	40.33	34.68	29.42	24.64	20.42	
11			53.12	63.54	71.18	76.95	81.35	74.38	66.92	59.20	51.64	44.46	37.73	31.59	26.12	
+ 20	0.3			0.35	0.39	0.42	0.44	0.40	0.36	0.32	0.28	0.24	0.21	0.17	0.14	
	0.5			0.52	0.62	0.70	0.76	0.71	0.64	0.57	0.50	0.43	0.37	0.31	0.26	
	0.7			0.70	0.85	0.96	1.04	0.97	0.88	0.78	0.69	0.59	0.51	0.43	0.35	
	1.0			1.03	1.25	1.40	1.52	1.41	1.29	1.15	1.00	0.87	0.74	0.62	0.52	
	1.5			1.65	2.00	2.25	2.44	2.27	2.06	1.84	1.61	1.39	1.19	1.00	0.83	
	2.0			2.09	2.53	2.84	3.08	2.86	2.61	2.32	2.04	1.76	1.50	1.26	1.05	
	2.5			3.01	3.64	4.10	4.44	4.13	3.76	3.35	2.93	2.54	2.16	1.82	1.51	
	3.0			4.80	5.81	6.54	7.08	6.59	5.99	5.34	4.68	4.04	3.45	2.90	2.41	
	3.5			6.34	7.68	8.64	9.36	8.71	7.92	7.06	6.19	5.35	4.55	3.83	3.18	
	4.5			8.84	10.70	12.04	13.04	12.13	11.03	9.84	8.62	7.45	6.35	5.33	4.43	
	4.75			11.66	14.11	15.88	17.20	16.00	14.55	12.98	11.37	9.83	8.37	7.04	5.85	
	5			15.13	18.31	20.61	22.32	20.76	18.89	16.84	14.75	12.75	10.86	9.13	7.59	
	6			22.07	26.71	30.06	32.57	30.28	27.55	24.57	21.52	18.60	15.85	13.32	11.07	
	7			28.36	34.32	38.63	41.85	38.92	35.40	31.57	27.65	23.90	20.36	17.11	14.22	
8			33.40	40.43	45.50	49.29	45.84	41.70	37.18	32.57	28.15	23.98	20.16	16.75		
10			39.09	47.32	53.26	57.69	53.65	48.81	43.52	38.12	32.95	28.07	23.59	19.61		
11			49.90	60.4	67.98	73.64	68.45	62.30	55.59	48.82	42.25	36.00	30.25	25.08		

Capacities are based on 1 K subcooling and 1.5 bar pressure drop within the circuit.
For other conditions use the Honeywell valve calculation software.

Honeywell	Quick selection table Cooling capacity Q₀ (kW)	for all Expansion Valve series	R134a
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Condensing temperature t _c (°C)	Orifice size	Evaporating temperature t ₀ (°C)														
		+ 30	+ 20	+ 10	+ 5	± 0	- 5	- 10	- 15	- 20	- 25	- 30	- 35	- 40	- 45	- 50
+ 50	0.3	0.27	0.32	0.35	0.36	0.36	0.36	0.36	0.31	0.26	0.22	0.18	0.15			
	0.5	0.52	0.62	0.67	0.68	0.69	0.69	0.69	0.59	0.50	0.42	0.34	0.28			
	0.7	0.72	0.85	0.92	0.94	0.95	0.96	0.95	0.82	0.69	0.58	0.48	0.39			
	1.0	1.04	1.23	1.33	1.36	1.37	1.38	1.38	1.18	1.00	0.83	0.69	0.56			
	1.5	1.69	1.99	2.15	2.20	2.22	2.23	2.23	1.90	1.61	1.34	1.11	0.91			
	2.0	2.17	2.56	2.77	2.82	2.86	2.87	2.86	2.45	2.07	1.73	1.43	1.17			
	2.5	3.05	3.60	3.89	3.97	4.02	4.04	4.03	3.45	2.91	2.43	2.01	1.64			
	3.0	4.98	5.88	6.35	6.48	6.56	6.59	6.57	5.62	4.75	3.97	3.28	2.68			
	3.5	6.58	7.78	8.40	8.57	8.67	8.71	8.70	7.43	6.28	5.25	4.33	3.54			
	4.5	8.91	10.53	11.38	11.61	11.74	11.79	11.77	10.06	8.50	7.10	5.87	4.79			
	4.75	12.04	14.23	15.37	15.69	15.86	15.93	15.91	13.60	11.49	9.60	7.93	6.48			
	5	15.09	17.83	19.27	19.66	19.88	19.97	19.93	17.04	14.4	12.03	9.94	8.12			
	6	20.88	24.66	26.65	27.19	27.5	27.62	27.57	23.57	19.92	16.64	13.74	11.22			
7	26.74	31.59	34.13	34.82	35.22	35.37	35.31	30.19	25.51	21.31	17.6	14.38				
8	32.76	38.70	41.82	42.66	43.15	43.34	43.26	36.99	31.26	26.11	21.56	17.61				
10	38.54	45.53	49.20	50.19	50.77	50.98	50.90	43.52	36.77	30.71	25.37	20.72				
11	49.24	58.17	62.85	64.13	64.86	65.14	65.03	55.60	46.98	39.24	32.41	26.47				
+ 40	0.3		0.26	0.31	0.32	0.33	0.34	0.34	0.30	0.25	0.21	0.18	0.15			
	0.5		0.49	0.58	0.61	0.63	0.65	0.65	0.57	0.48	0.41	0.34	0.28			
	0.7		0.68	0.81	0.85	0.88	0.90	0.91	0.78	0.67	0.56	0.47	0.38			
	1.0		0.98	1.17	1.23	1.27	1.29	1.31	1.13	0.96	0.81	0.68	0.56			
	1.5		1.58	1.89	1.98	2.05	2.09	2.11	1.83	1.56	1.31	1.09	0.90			
	2.0		2.03	2.43	2.55	2.63	2.69	2.72	2.35	2.00	1.69	1.40	1.15			
	2.5		2.86	3.42	3.59	3.70	3.78	3.82	3.31	2.82	2.37	1.98	1.62			
	3.0		4.67	5.58	5.85	6.04	6.17	6.24	5.39	4.60	3.87	3.22	2.65			
	3.5		6.17	7.38	7.74	7.99	8.16	8.25	7.13	6.08	5.12	4.26	3.51			
	4.5		8.36	9.98	10.48	10.82	11.04	11.17	9.66	8.24	6.94	5.77	4.75			
	4.75		11.29	13.49	14.16	14.62	14.92	15.10	13.05	11.13	9.37	7.80	6.41			
	5		14.15	16.91	17.74	18.32	18.70	18.92	16.36	13.95	11.75	9.78	8.04			
	6		19.57	23.39	24.54	25.34	25.87	26.17	22.62	19.29	16.25	13.52	11.12			
7		25.07	29.95	31.43	32.46	33.13	33.51	28.97	24.71	20.81	17.32	14.24				
8		30.71	36.7	38.50	39.77	40.59	41.06	35.50	30.28	25.50	21.22	17.45				
10		36.14	43.18	45.30	46.78	47.76	48.31	41.76	35.62	30.00	24.96	20.53				
11		46.15	55.15	57.86	59.75	60.99	61.70	53.34	45.49	38.31	31.88	26.22				
+ 35	0.3		0.27	0.30	0.31	0.32	0.33	0.29	0.24	0.21	0.17	0.14				
	0.5		0.52	0.56	0.59	0.61	0.62	0.54	0.47	0.39	0.33	0.27				
	0.7		0.72	0.78	0.82	0.85	0.86	0.75	0.65	0.55	0.46	0.38				
	1.0		1.05	1.13	1.18	1.22	1.25	1.09	0.93	0.79	0.66	0.54				
	1.5		1.69	1.82	1.91	1.97	2.02	1.76	1.51	1.27	1.07	0.88				
	2.0		2.17	2.34	2.46	2.54	2.59	2.26	1.94	1.64	1.37	1.13				
	2.5		3.06	3.29	3.46	3.57	3.65	3.18	2.73	2.31	1.93	1.59				
	3.0		4.99	5.37	5.64	5.83	5.95	5.18	4.45	3.76	3.15	2.60				
	3.5		6.59	7.10	7.46	7.71	7.87	6.85	5.88	4.98	4.16	3.43				
	4.5		8.93	9.61	10.09	10.43	10.65	9.28	7.96	6.74	5.63	4.65				
	4.75		12.06	12.98	13.64	14.10	14.40	12.54	10.76	9.11	7.61	6.28				
	5		15.12	16.27	17.10	17.67	18.04	15.71	13.48	11.41	9.54	7.87				
	6		20.91	22.50	23.64	24.44	24.96	21.73	18.65	15.78	13.19	10.89				
7		26.78	28.82	30.28	31.3	31.96	27.83	23.89	20.22	16.89	13.94					
8		32.81	35.31	37.10	38.35	39.16	34.10	29.26	24.77	20.70	17.08					
10		38.60	41.54	43.65	45.12	46.07	40.12	34.43	29.14	24.35	20.10					
11		49.29	53.05	55.75	57.62	58.84	51.24	43.97	37.21	31.10	25.67					

Capacities are based on 1 K subcooling and 1.5 bar pressure drop within the circuit.
For other conditions use the Honeywell valve calculation software.

Honeywell	Quick selection table Cooling capacity Q₀ (kW)	for all Expansion Valve series	R134a
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Condensing temperature t _c (°C)	Orifice size	Evaporating temperature t ₀ (°C)														
		+ 30	+ 20	+ 10	+ 5	± 0	- 5	- 10	- 15	- 20	- 25	- 30	- 35	- 40	- 45	- 50
+ 30	0.3			0.23	0.26	0.28	0.30	0.31	0.27	0.23	0.20	0.17	0.14			
	0.5			0.44	0.50	0.54	0.56	0.58	0.51	0.44	0.38	0.32	0.26			
	0.7			0.61	0.69	0.74	0.78	0.81	0.71	0.62	0.52	0.44	0.36			
	1.0			0.88	0.99	1.07	1.13	1.17	1.03	0.89	0.76	0.64	0.53			
	1.5			1.42	1.60	1.73	1.82	1.89	1.66	1.44	1.22	1.03	0.85			
	2.0			1.83	2.06	2.23	2.35	2.43	2.13	1.85	1.57	1.32	1.09			
	2.5			2.57	2.90	3.14	3.30	3.42	3.00	2.60	2.21	1.86	1.54			
	3.0			4.20	4.73	5.12	5.39	5.57	4.90	4.24	3.61	3.03	2.51			
	3.5			5.55	6.26	6.77	7.12	7.37	6.48	5.60	4.77	4.01	3.32			
	4.5			7.52	8.48	9.16	9.64	9.98	8.77	7.59	6.46	5.43	4.50			
	4.75			10.16	11.45	12.38	13.03	13.48	11.86	10.25	8.73	7.33	6.08			
	5			12.73	14.36	15.51	16.33	16.90	14.86	12.85	10.94	9.19	7.62			
	6			17.61	19.85	21.45	22.58	23.37	20.55	17.77	15.13	12.71	10.53			
7			22.55	25.43	27.47	28.92	29.93	26.32	22.76	19.38	16.28	13.49				
8			27.63	31.16	33.66	35.44	36.67	32.25	27.89	23.75	19.94	16.53				
10			32.51	36.65	39.60	41.69	43.14	37.94	32.81	27.94	23.46	19.45				
11			41.51	46.80	50.57	53.24	55.09	48.45	41.89	35.68	29.96	24.83				
+ 25	0.3			0.17	0.21	0.24	0.27	0.28	0.25	0.22	0.19	0.16	0.13			
	0.5			0.32	0.41	0.47	0.51	0.53	0.48	0.42	0.36	0.30	0.25			
	0.7			0.45	0.57	0.64	0.70	0.74	0.66	0.58	0.49	0.42	0.35			
	1.0			0.65	0.82	0.93	1.01	1.07	0.95	0.83	0.71	0.60	0.50			
	1.5			1.05	1.32	1.50	1.63	1.72	1.54	1.34	1.15	0.98	0.81			
	2.0			1.35	1.70	1.93	2.10	2.22	1.98	1.73	1.48	1.25	1.04			
	2.5			1.89	2.39	2.72	2.96	3.12	2.78	2.43	2.09	1.76	1.47			
	3.0			3.09	3.90	4.44	4.82	5.09	4.54	3.97	3.41	2.88	2.40			
	3.5			4.09	5.16	5.88	6.38	6.74	6.01	5.25	4.51	3.81	3.17			
	4.5			5.53	6.98	7.95	8.64	9.12	8.13	7.11	6.10	5.16	4.30			
	4.75			7.48	9.44	10.75	11.67	12.32	10.99	9.60	8.24	6.97	5.80			
	5			9.37	11.83	13.47	14.63	15.44	13.77	12.04	10.33	8.73	7.27			
	6			12.96	16.35	18.63	20.23	21.36	19.05	16.65	14.29	12.08	10.06			
7			16.60	20.95	23.86	25.91	27.35	24.40	21.32	18.30	15.47	12.89				
8			20.34	25.66	29.23	31.74	33.51	29.89	26.12	22.42	18.95	15.79				
10			23.93	30.19	34.39	37.34	39.43	35.17	30.73	26.38	22.29	18.57				
11			30.56	38.56	43.92	47.69	50.35	44.91	39.24	33.69	28.47	23.72				
+ 20	0.3			0.15	0.20	0.23	0.24	0.22	0.20	0.17	0.15	0.12				
	0.5			0.28	0.37	0.43	0.47	0.43	0.38	0.33	0.28	0.24				
	0.7			0.39	0.52	0.60	0.65	0.59	0.53	0.46	0.39	0.33				
	1.0			0.57	0.74	0.86	0.94	0.86	0.76	0.66	0.56	0.47				
	1.5			0.91	1.20	1.39	1.52	1.39	1.23	1.07	0.91	0.76				
	2.0			1.18	1.55	1.79	1.96	1.78	1.58	1.38	1.17	0.98				
	2.5			1.66	2.18	2.52	2.75	2.51	2.23	1.94	1.65	1.38				
	3.0			2.70	3.55	4.11	4.49	4.10	3.64	3.16	2.69	2.26				
	3.5			3.57	4.70	5.43	5.94	5.42	4.81	4.18	3.56	2.99				
	4.5			4.83	6.36	7.35	8.04	7.34	6.51	5.65	4.82	4.04				
	4.75			6.53	8.60	9.94	10.87	9.92	8.80	7.64	6.51	5.46				
	5			8.19	10.77	12.46	13.62	12.43	11.03	9.57	8.16	6.84				
	6			11.32	14.90	17.23	18.84	17.19	15.25	13.24	11.29	9.47				
7			14.50	19.08	22.06	24.13	22.01	19.53	16.96	14.45	12.12					
8			17.77	23.38	27.03	29.56	26.97	23.93	20.78	17.71	14.85					
10			20.91	27.51	31.80	34.78	31.73	28.16	24.44	20.83	17.47					
11			26.69	35.12	40.61	44.41	40.51	35.95	31.21	26.60	22.31					

Capacities are based on 1 K subcooling and 1.5 bar pressure drop within the circuit.
For other conditions use the Honeywell valve calculation software.

Honeywell	Quick selection table Cooling capacity Q₀ (kW)	for all Expansion Valve series	R404A
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Condensing temperature t _c (°C)	Orifice size	Evaporating temperature t ₀ (°C)														
		+ 30	+ 20	+ 10	+ 5	± 0	- 5	- 10	- 15	- 20	- 25	- 30	- 35	- 40	- 45	- 50
+ 50	0.3		0.30	0.32	0.32	0.33	0.32	0.32	0.28	0.24	0.20	0.16	0.14	0.11	0.09	0.07
	0.5		0.57	0.60	0.61	0.61	0.61	0.60	0.52	0.44	0.37	0.31	0.26	0.21	0.17	0.13
	0.7		0.81	0.86	0.87	0.88	0.87	0.86	0.74	0.64	0.54	0.45	0.37	0.30	0.24	0.19
	1.0		1.17	1.25	1.26	1.27	1.26	1.25	1.08	0.92	0.78	0.65	0.53	0.43	0.35	0.27
	1.5		1.86	1.98	2.01	2.01	2.01	1.98	1.71	1.46	1.23	1.03	0.84	0.68	0.55	0.43
	2.0		2.34	2.50	2.53	2.54	2.53	2.50	2.16	1.84	1.55	1.29	1.06	0.86	0.69	0.55
	2.5		3.39	3.62	3.66	3.68	3.66	3.62	3.13	2.67	2.25	1.87	1.54	1.25	1.00	0.79
	3.0		5.41	5.77	5.84	5.87	5.84	5.78	4.99	4.26	3.59	2.99	2.45	1.99	1.60	1.26
	3.5		7.11	7.58	7.68	7.70	7.67	7.59	6.55	5.59	4.71	3.92	3.22	2.61	2.10	1.66
	4.5		9.94	10.59	10.73	10.77	10.72	10.60	9.16	7.82	6.59	5.48	4.50	3.65	2.93	2.32
	4.75		13.09	13.95	14.13	14.18	14.12	13.97	12.06	10.30	8.68	7.22	5.93	4.81	3.86	3.05
	5		16.97	18.08	18.32	18.38	18.31	18.10	15.64	13.35	11.25	9.36	7.69	6.24	5.00	3.96
	6		24.72	26.35	26.69	26.79	26.68	26.38	22.78	19.45	16.39	13.64	11.20	9.09	7.29	5.76
	7		31.75	33.84	34.28	34.40	34.26	33.88	29.26	24.98	21.05	17.52	14.38	11.68	9.36	7.40
8		37.41	39.87	40.38	40.53	40.36	39.92	34.47	29.43	24.80	20.64	16.95	13.76	11.03	8.72	
10		43.79	46.67	47.27	47.45	47.25	46.73	40.36	34.45	29.04	24.16	19.84	16.10	12.91	10.21	
11		56.06	59.75	60.52	60.74	60.48	59.81	51.63	44.09	37.19	31.01	25.50	20.71	16.59	13.09	
+ 40	0.3		0.28	0.32	0.33	0.34	0.35	0.35	0.31	0.27	0.23	0.19	0.16	0.13	0.11	0.09
	0.5		0.52	0.61	0.63	0.65	0.66	0.66	0.58	0.50	0.43	0.36	0.30	0.25	0.20	0.16
	0.7		0.75	0.87	0.90	0.92	0.94	0.94	0.82	0.71	0.61	0.51	0.43	0.35	0.29	0.23
	1.0		1.08	1.25	1.31	1.34	1.36	1.36	1.20	1.04	0.88	0.75	0.62	0.51	0.42	0.33
	1.5		1.71	1.99	2.07	2.12	2.15	2.16	1.90	1.64	1.40	1.18	0.99	0.81	0.66	0.53
	2.0		2.16	2.51	2.61	2.68	2.72	2.73	2.39	2.07	1.77	1.49	1.24	1.02	0.83	0.67
	2.5		3.13	3.63	3.78	3.88	3.93	3.95	3.46	3.00	2.56	2.16	1.80	1.48	1.20	0.97
	3.0		4.99	5.80	6.03	6.19	6.27	6.30	5.53	4.78	4.09	3.45	2.87	2.36	1.92	1.54
	3.5		6.56	7.61	7.92	8.12	8.24	8.28	7.26	6.28	5.37	4.53	3.77	3.10	2.52	2.03
	4.5		9.17	10.64	11.07	11.36	11.52	11.57	10.15	8.78	7.50	6.33	5.27	4.34	3.53	2.84
	4.75		12.07	14.02	14.58	14.96	15.17	15.24	13.36	11.57	9.88	8.33	6.94	5.71	4.65	3.73
	5		15.65	18.17	18.90	19.39	19.66	19.76	17.32	14.99	12.81	10.80	9.00	7.41	6.02	4.84
	6		22.80	26.48	27.55	28.25	28.65	28.79	25.24	21.85	18.67	15.74	13.11	10.79	8.78	7.05
	7		29.29	34.01	35.38	36.28	36.80	36.98	32.42	28.06	23.98	20.21	16.84	13.86	11.27	9.06
8		34.50	40.07	41.68	42.75	43.35	43.57	38.19	33.06	28.25	23.82	19.83	16.33	13.28	10.67	
10		40.39	46.90	48.79	50.04	50.75	51.00	44.70	38.70	33.07	27.88	23.22	19.12	15.55	12.49	
11		51.66	59.98	62.40	63.99	64.90	65.22	57.14	49.49	42.31	35.76	29.81	24.56	19.96	16.00	
+ 35	0.3			0.31	0.33	0.34	0.35	0.35	0.31	0.27	0.23	0.20	0.17	0.14	0.11	0.09
	0.5			0.58	0.61	0.64	0.65	0.66	0.59	0.51	0.44	0.37	0.31	0.26	0.21	0.17
	0.7			0.82	0.88	0.91	0.93	0.95	0.84	0.73	0.63	0.53	0.45	0.37	0.30	0.24
	1.0			1.19	1.27	1.32	1.36	1.38	1.21	1.06	0.91	0.77	0.65	0.54	0.44	0.35
	1.5			1.90	2.01	2.10	2.15	2.18	1.93	1.68	1.44	1.22	1.03	0.85	0.69	0.56
	2.0			2.39	2.54	2.64	2.71	2.75	2.43	2.12	1.82	1.54	1.29	1.07	0.88	0.71
	2.5			3.46	3.68	3.83	3.93	3.98	3.52	3.07	2.64	2.24	1.87	1.55	1.27	1.02
	3.0			5.52	5.86	6.10	6.26	6.35	5.61	4.89	4.21	3.57	2.99	2.47	2.02	1.63
	3.5			7.25	7.70	8.02	8.23	8.35	7.37	6.43	5.53	4.69	3.93	3.25	2.66	2.15
	4.5			10.14	10.77	11.21	11.50	11.66	10.31	8.98	7.72	6.55	5.49	4.54	3.71	3.00
	4.75			13.35	14.18	14.76	15.14	15.36	13.57	11.83	10.17	8.63	7.23	5.98	4.89	3.95
	5			17.30	18.38	19.13	19.63	19.91	17.59	15.34	13.19	11.18	9.37	7.75	6.34	5.12
	6			25.22	26.78	27.88	28.60	29.02	25.64	22.35	19.22	16.30	13.65	11.30	9.24	7.47
	7			32.38	34.40	35.81	36.74	37.27	32.93	28.70	24.68	20.93	17.53	14.51	11.87	9.59
8			38.15	40.52	42.19	43.28	43.91	38.79	33.82	29.07	24.66	20.65	17.09	13.98	11.30	
10			44.66	47.44	49.38	50.66	51.40	45.41	39.59	34.04	28.86	24.18	20.01	16.36	13.22	
11			57.11	60.66	63.15	64.78	65.72	58.03	50.62	43.55	37.02	31.04	25.71	21.01	16.94	

Capacities are based on 1 K subcooling and 1.5 bar pressure drop within the circuit.
For other conditions use the Honeywell valve calculation software.

Honeywell	Quick selection table Cooling capacity Q₀ (kW)	for all Expansion Valve series	R404A
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Condensing temperature t _c (°C)	Orifice size	Evaporating temperature t ₀ (°C)														
		+ 30	+ 20	+ 10	+ 5	± 0	- 5	- 10	- 15	- 20	- 25	- 30	- 35	- 40	- 45	- 50
+ 30	0.3			0.28	0.31	0.32	0.34	0.35	0.31	0.27	0.24	0.20	0.17	0.14	0.12	0.09
	0.5			0.52	0.58	0.61	0.64	0.65	0.58	0.51	0.44	0.38	0.32	0.27	0.22	0.18
	0.7			0.75	0.82	0.87	0.91	0.93	0.83	0.73	0.63	0.54	0.46	0.38	0.31	0.25
	1.0			1.09	1.19	1.27	1.32	1.36	1.21	1.06	0.92	0.78	0.66	0.55	0.45	0.37
	1.5			1.72	1.89	2.01	2.10	2.15	1.92	1.68	1.46	1.24	1.05	0.87	0.72	0.58
	2.0			2.17	2.39	2.54	2.64	2.71	2.42	2.12	1.84	1.57	1.32	1.10	0.90	0.73
	2.5			3.15	3.45	3.67	3.83	3.93	3.50	3.08	2.66	2.27	1.91	1.59	1.31	1.06
	3.0			5.02	5.51	5.86	6.10	6.26	5.59	4.91	4.25	3.62	3.05	2.54	2.09	1.69
	3.5			6.60	7.24	7.70	8.02	8.23	7.34	6.45	5.58	4.76	4.01	3.33	2.74	2.22
	4.5			9.22	10.12	10.76	11.20	11.50	10.25	9.01	7.80	6.65	5.60	4.66	3.83	3.11
	4.75			12.14	13.32	14.17	14.76	15.15	13.51	11.86	10.27	8.76	7.38	6.14	5.04	4.10
	5			15.74	17.27	18.37	19.13	19.63	17.51	15.38	13.31	11.36	9.56	7.96	6.54	5.31
	6			22.94	25.17	26.76	27.88	28.61	25.51	22.41	19.40	16.55	13.94	11.59	9.53	7.74
7			29.46	32.32	34.37	35.80	36.74	32.76	28.78	24.91	21.25	17.90	14.89	12.24	9.94	
8			34.70	38.08	40.49	42.18	43.29	38.60	33.91	29.35	25.04	21.09	17.54	14.42	11.70	
10			40.63	44.58	47.40	49.37	50.67	45.19	39.70	34.36	29.31	24.68	20.54	16.88	13.70	
11			51.95	57.00	60.62	63.14	64.80	57.75	50.76	43.96	37.60	31.70	26.39	21.67	17.55	
+ 25	0.3			0.24	0.27	0.30	0.32	0.33	0.30	0.27	0.23	0.20	0.17	0.14	0.12	0.10
	0.5			0.44	0.52	0.57	0.61	0.63	0.57	0.50	0.44	0.38	0.32	0.27	0.22	0.18
	0.7			0.63	0.74	0.81	0.86	0.90	0.81	0.72	0.63	0.54	0.46	0.38	0.32	0.26
	1.0			0.92	1.07	1.18	1.25	1.31	1.18	1.05	0.91	0.78	0.66	0.55	0.46	0.37
	1.5			1.46	1.70	1.87	1.99	2.07	1.87	1.66	1.45	1.24	1.05	0.88	0.73	0.59
	2.0			1.83	2.14	2.35	2.51	2.61	2.36	2.09	1.82	1.57	1.33	1.11	0.92	0.75
	2.5			2.66	3.10	3.41	3.63	3.78	3.41	3.03	2.64	2.27	1.92	1.61	1.33	1.08
	3.0			4.24	4.94	5.44	5.79	6.04	5.45	4.83	4.21	3.62	3.06	2.56	2.11	1.72
	3.5			5.57	6.49	7.15	7.61	7.93	7.15	6.34	5.53	4.75	4.02	3.36	2.78	2.27
	4.5			7.78	9.08	9.99	10.63	11.08	10.00	8.87	7.73	6.64	5.62	4.70	3.88	3.17
	4.75			10.25	11.95	13.15	14.01	14.60	13.17	11.68	10.19	8.74	7.41	6.19	5.11	4.17
	5			13.29	15.50	17.05	18.16	18.92	17.07	15.14	13.20	11.34	9.60	8.03	6.63	5.41
	6			19.36	22.58	24.85	26.46	27.58	24.88	22.06	19.24	16.52	13.99	11.70	9.66	7.88
7			24.87	29.00	31.91	33.98	35.42	31.95	28.33	24.71	21.21	17.97	15.03	12.41	10.12	
8			29.29	34.16	37.59	40.03	41.73	37.64	33.38	29.11	24.99	21.17	17.70	14.62	11.92	
10			34.29	39.99	44.01	46.86	48.84	44.07	39.07	34.08	29.26	24.78	20.72	17.11	13.95	
11			43.85	51.14	56.28	59.92	62.46	56.33	49.97	43.61	37.53	31.83	26.63	21.97	17.88	
+ 20	0.3			0.23	0.26	0.29	0.31	0.29	0.26	0.23	0.20	0.17	0.14	0.12	0.10	
	0.5			0.43	0.50	0.56	0.59	0.54	0.49	0.43	0.37	0.32	0.27	0.22	0.18	
	0.7			0.61	0.72	0.79	0.85	0.78	0.70	0.61	0.53	0.45	0.38	0.32	0.26	
	1.0			0.89	1.04	1.15	1.23	1.13	1.01	0.89	0.77	0.66	0.55	0.46	0.37	
	1.5			1.41	1.65	1.83	1.95	1.78	1.60	1.41	1.22	1.04	0.87	0.73	0.59	
	2.0			1.77	2.08	2.30	2.45	2.25	2.02	1.78	1.54	1.31	1.10	0.91	0.75	
	2.5			2.57	3.02	3.33	3.56	3.26	2.92	2.57	2.23	1.90	1.60	1.32	1.09	
	3.0			4.10	4.82	5.32	5.67	5.20	4.67	4.11	3.55	3.03	2.55	2.11	1.73	
	3.5			5.38	6.33	6.98	7.45	6.83	6.13	5.39	4.67	3.98	3.35	2.78	2.27	
	4.5			7.52	8.84	9.76	10.41	9.55	8.57	7.54	6.52	5.56	4.68	3.88	3.18	
	4.75			9.90	11.64	12.86	13.71	12.57	11.28	9.93	8.59	7.32	6.16	5.11	4.19	
	5			12.84	15.09	16.66	17.78	16.30	14.62	12.87	11.14	9.49	7.98	6.62	5.43	
	6			18.71	21.99	24.28	25.90	23.75	21.31	18.76	16.23	13.83	11.63	9.65	7.91	
7			24.03	28.25	31.19	33.27	30.50	27.37	24.09	20.84	17.77	14.94	12.39	10.15		
8			28.31	33.28	36.74	39.19	35.93	32.24	28.38	24.55	20.93	17.60	14.60	11.96		
10			33.14	38.96	43.01	45.88	42.06	37.74	33.23	28.74	24.50	20.60	17.09	14.00		
11			42.36	49.80	54.98	58.64	53.74	48.25	42.50	36.85	31.45	26.46	21.94	17.93		

Capacities are based on 1 K subcooling and 1.5 bar pressure drop within the circuit.
For other conditions use the Honeywell valve calculation software.

Honeywell	Quick selection table Cooling capacity Q₀ (kW)	for all Expansion Valve series	R407C
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Condensing temperature t _c (°C)	Orifice size	Evaporating temperature t ₀ (°C)														
		+ 30	+ 20	+ 10	+ 5	± 0	- 5	- 10	- 15	- 20	- 25	- 30	- 35	- 40	- 45	- 50
+ 50	0.3		0.46	0.50	0.51	0.51	0.52	0.52	0.45	0.39	0.34	0.29				
	0.5		0.87	0.94	0.96	0.97	0.98	0.98	0.86	0.75	0.64	0.54				
	0.7		1.19	1.29	1.32	1.33	1.34	1.34	1.18	1.02	0.87	0.74				
	1.0		1.74	1.88	1.92	1.95	1.96	1.97	1.72	1.49	1.28	1.08				
	1.5		2.79	3.02	3.09	3.13	3.15	3.15	2.76	2.39	2.05	1.74				
	2.0		3.52	3.81	3.90	3.95	3.98	3.98	3.48	3.02	2.59	2.20				
	2.5		5.08	5.49	5.62	5.69	5.73	5.74	5.02	4.36	3.74	3.17				
	3.0		8.15	8.81	9.01	9.13	9.19	9.20	8.06	6.99	5.99	5.08				
	3.5		10.71	11.58	11.84	12.00	12.09	12.10	10.59	9.19	7.87	6.68				
	4.5		14.92	16.14	16.50	16.72	16.84	16.86	14.75	12.80	10.97	9.31				
	4.75		19.68	21.29	21.76	22.06	22.21	22.24	19.46	16.88	14.47	12.28				
	5		25.54	27.62	28.24	28.63	28.82	28.86	25.25	21.90	18.78	15.93				
	6		37.25	40.30	41.19	41.76	42.04	42.09	36.84	31.95	27.39	23.24				
7		47.87	51.78	52.93	53.66	54.03	54.09	47.34	41.06	35.20	29.86					
8		56.38	60.99	62.34	63.20	63.63	63.71	55.75	48.36	41.46	35.17					
10		65.99	71.38	72.97	73.97	74.48	74.57	65.26	56.60	48.52	41.17					
11		82.67	89.90	92.16	92.29	96.02	94.95	83.31	72.45	61.96	52.94					
+ 40	0.3		0.39	0.46	0.48	0.49	0.51	0.51	0.45	0.40	0.34	0.29				
	0.5		0.74	0.87	0.91	0.94	0.96	0.97	0.86	0.75	0.65	0.56				
	0.7		1.01	1.19	1.25	1.29	1.31	1.33	1.18	1.03	0.89	0.76				
	1.0		1.48	1.74	1.82	1.88	1.92	1.95	1.72	1.51	1.30	1.11				
	1.5		2.38	2.79	2.92	3.02	3.08	3.13	2.76	2.42	2.09	1.79				
	2.0		3.00	3.52	3.69	3.81	3.89	3.95	3.49	3.05	2.64	2.26				
	2.5		4.33	5.08	5.32	5.49	5.61	5.69	5.03	4.40	3.80	3.25				
	3.0		6.94	8.15	8.53	8.81	9.00	9.12	8.07	7.06	6.10	5.21				
	3.5		9.12	10.71	11.21	11.58	11.83	11.99	10.60	9.28	8.02	6.85				
	4.5		12.71	14.92	15.62	16.13	16.48	16.70	14.77	12.93	11.17	9.55				
	4.75		16.77	19.68	20.60	21.28	21.74	22.03	19.48	17.05	14.74	12.59				
	5		21.76	25.54	26.74	27.61	28.21	28.59	25.28	22.13	19.12	16.34				
	6		31.74	37.25	39.01	40.28	41.16	41.71	36.88	32.28	27.90	23.84				
7		40.79	47.87	50.12	51.76	52.89	53.60	47.39	41.48	35.85	30.64					
8		48.04	56.38	59.04	60.96	62.29	63.13	55.82	48.86	42.22	36.09					
10		56.23	65.99	69.10	71.35	72.91	73.89	65.34	57.19	49.42	42.24					
11		69.88	82.40	86.50	88.35	92.94	93.14	82.54	72.40	62.42	53.67					
+ 35	0.3			0.42	0.45	0.47	0.49	0.50	0.44	0.39	0.34	0.29				
	0.5			0.80	0.86	0.90	0.93	0.95	0.84	0.74	0.64	0.55				
	0.7			1.10	1.17	1.23	1.27	1.30	1.15	1.02	0.88	0.76				
	1.0			1.61	1.72	1.80	1.86	1.90	1.69	1.48	1.29	1.11				
	1.5			2.58	2.75	2.88	2.98	3.04	2.71	2.38	2.07	1.78				
	2.0			3.25	3.48	3.64	3.76	3.84	3.42	3.01	2.61	2.24				
	2.5			4.69	5.01	5.25	5.42	5.54	4.93	4.34	3.77	3.23				
	3.0			7.52	8.04	8.42	8.69	8.88	7.90	6.95	6.04	5.18				
	3.5			9.89	10.56	11.06	11.42	11.67	10.39	9.14	7.94	6.81				
	4.5			13.78	14.72	15.41	15.92	16.26	14.47	12.74	11.06	9.49				
	4.75			18.17	19.41	20.33	20.99	21.45	19.09	16.80	14.59	12.52				
	5			23.59	25.19	26.38	27.24	27.83	24.77	21.80	18.93	16.24				
	6			34.41	36.75	38.49	39.74	40.60	36.14	31.80	27.61	23.69				
7			44.21	47.23	49.46	51.07	52.18	46.44	40.87	35.48	30.45					
8			52.07	55.62	58.25	60.15	61.45	54.70	48.14	41.79	35.86					
10			60.95	65.10	68.18	70.40	71.93	64.02	56.34	48.91	41.97					
11			75.94	81.32	84.28	89.47	90.44	80.66	71.12	61.60	53.16					

Capacities are based on 1 K subcooling and 1.5 bar pressure drop within the circuit.
For other conditions use the Honeywell valve calculation software.

Honeywell	Quick selection table Cooling capacity Q₀ (kW)	for all Expansion Valve series	R407C
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Condensing temperature t_c (°C)	Orifice size	Evaporating temperature t₀ (°C)														
		+ 30	+ 20	+ 10	+ 5	± 0	- 5	- 10	- 15	- 20	- 25	- 30	- 35	- 40	- 45	- 50
+ 30	0.3			0.37	0.41	0.44	0.46	0.48	0.43	0.38	0.33	0.29				
	0.5			0.71	0.79	0.84	0.88	0.91	0.82	0.72	0.63	0.54				
	0.7			0.97	1.07	1.15	1.20	1.24	1.12	0.99	0.86	0.74				
	1.0			1.42	1.57	1.68	1.76	1.82	1.63	1.44	1.26	1.09				
	1.5			2.29	2.52	2.70	2.82	2.92	2.62	2.32	2.02	1.74				
	2.0			2.88	3.18	3.40	3.56	3.68	3.30	2.93	2.55	2.20				
	2.5			4.16	4.59	4.90	5.14	5.31	4.76	4.22	3.68	3.17				
	3.0			6.67	7.36	7.86	8.24	8.51	7.64	6.76	5.90	5.09				
	3.5			8.77	9.67	10.34	10.83	11.19	10.04	8.89	7.76	6.69				
	4.5			12.21	13.47	14.40	15.09	15.58	13.98	12.39	10.81	9.32				
	4.75			16.11	17.77	19.00	19.90	20.55	18.45	16.34	14.26	12.29				
	5			20.90	23.06	24.66	25.83	26.67	23.94	21.20	18.51	15.95				
	6			30.49	33.64	35.97	37.68	38.91	34.92	30.93	27.00	23.27				
	7			39.19	43.23	46.22	48.42	50.00	44.87	39.75	34.69	29.90				
8			46.15	50.91	54.44	57.03	58.89	52.85	46.81	40.86	35.22					
10			54.02	59.59	63.71	66.75	68.93	61.86	54.79	47.83	41.22					
11			67.21	74.33	78.68	84.63	86.51	77.78	69.03	60.12	52.09					
+ 25	0.3			0.31	0.36	0.40	0.43	0.45	0.41	0.36	0.32	0.28				
	0.5			0.59	0.69	0.76	0.82	0.85	0.78	0.69	0.61	0.53				
	0.7			0.80	0.94	1.04	1.12	1.17	1.06	0.95	0.83	0.72				
	1.0			1.17	1.38	1.52	1.63	1.71	1.55	1.39	1.22	1.05				
	1.5			1.88	2.21	2.44	2.62	2.74	2.49	2.22	1.95	1.69				
	2.0			2.38	2.79	3.09	3.30	3.46	3.14	2.81	2.47	2.14				
	2.5			3.43	4.02	4.45	4.76	4.99	4.53	4.05	3.55	3.08				
	3.0			5.50	6.45	7.13	7.64	8.01	7.26	6.49	5.70	4.94				
	3.5			7.23	8.48	9.38	10.04	10.52	9.55	8.53	7.49	6.49				
	4.5			10.07	11.81	13.07	13.99	14.66	13.30	11.88	10.44	9.05				
	4.75			13.28	15.58	17.23	18.45	19.34	17.55	15.67	13.77	11.93				
	5			17.23	20.22	22.36	23.94	25.09	22.77	20.34	17.87	15.49				
	6			25.13	29.49	32.62	34.92	36.61	33.21	29.67	26.07	22.59				
	7			32.30	37.90	41.92	44.88	47.04	42.68	38.12	33.50	29.03				
8			38.04	44.64	49.38	52.86	55.41	50.27	44.90	39.45	34.19					
10			44.52	52.24	57.79	61.87	64.85	58.84	52.56	46.18	40.02					
11			55.32	65.09	71.33	78.31	81.29	73.89	66.11	57.97	50.48					
+ 20	0.3			0.29	0.35	0.39	0.41	0.38	0.34	0.30	0.27					
	0.5			0.56	0.66	0.73	0.79	0.72	0.65	0.58	0.51					
	0.7			0.76	0.90	1.00	1.07	0.99	0.89	0.79	0.69					
	1.0			1.11	1.32	1.46	1.57	1.45	1.31	1.16	1.01					
	1.5			1.79	2.12	2.35	2.52	2.32	2.10	1.86	1.62					
	2.0			2.26	2.67	2.97	3.18	2.93	2.65	2.35	2.05					
	2.5			3.26	3.85	4.28	4.59	4.23	3.82	3.38	2.95					
	3.0			5.22	6.18	6.86	7.36	6.78	6.12	5.43	4.74					
	3.5			6.86	8.12	9.02	9.67	8.91	8.05	7.14	6.23					
	4.5			9.56	11.32	12.56	13.47	12.42	11.22	9.94	8.67					
	4.75			12.61	14.93	16.57	17.77	16.38	14.80	13.11	11.44					
	5			16.37	19.37	21.51	23.06	21.25	19.20	17.01	14.84					
	6			23.88	28.26	31.37	33.64	31.00	28.01	24.82	21.66					
	7			30.68	36.31	40.31	43.23	39.84	35.99	31.90	27.83					
8			36.14	42.77	47.48	50.92	46.92	42.39	37.57	32.78						
10			42.30	50.06	55.57	59.60	54.92	49.62	43.97	38.36						
11			52.66	61.78	70.28	74.67	68.94	62.38	55.17	48.36						

Capacities are based on 1 K subcooling and 1.5 bar pressure drop within the circuit.
For other conditions use the Honeywell valve calculation software.

Honeywell	Quick selection table Cooling capacity Q₀ (kW)	for all Expansion Valve series	R410A
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Condensing temperature t _c (°C)	Orifice size	Evaporating temperature t ₀ (°C)														
		+ 20	+ 15	+ 10	+ 5	± 0	- 5	- 10	- 15	- 20	- 25	- 30	- 35	- 40	- 45	- 50
+ 50	0.3		0.57	0.59	0.61	0.62	0.63	0.63	0.56	0.49	0.43	0.37	0.32	0.27		
	0.5		1.08	1.12	1.15	1.18	1.19	1.20	1.07	0.94	0.82	0.70	0.6	0.51		
	0.7		1.48	1.53	1.58	1.61	1.63	1.64	1.46	1.28	1.12	0.96	0.82	0.69		
	1.0		2.16	2.24	2.31	2.35	2.38	2.40	2.13	1.87	1.63	1.41	1.2	1.01		
	1.5		3.46	3.6	3.70	3.78	3.83	3.86	3.42	3.01	2.62	2.26	1.92	1.62		
	2.0		4.37	4.54	4.67	4.77	4.83	4.87	4.32	3.80	3.30	2.85	2.43	2.05		
	2.5		6.30	6.55	6.73	6.87	6.96	7.02	6.23	5.47	4.76	4.10	3.50	2.95		
	3.0		10.1	10.50	10.80	11.02	11.17	11.25	9.98	8.77	7.64	6.58	5.61	4.73		
	3.5		13.28	13.80	14.2	14.49	14.68	14.79	13.12	11.53	10.04	8.65	7.38	6.22		
	4.5		18.50	19.23	19.78	20.18	20.45	20.61	18.28	16.07	13.98	12.05	10.28	8.66		
	4.75		24.4	25.36	26.09	26.62	27.00	27.18	24.11	21.19	18.44	15.9	13.55	11.43		
	5		31.66	32.91	33.85	34.54	35.01	35.27	31.29	27.50	23.93	20.63	17.59	14.83		
	6		46.19	48.00	49.38	50.39	51.07	51.45	45.65	40.12	34.91	30.10	25.66	21.63		
7		59.35	61.69	63.46	64.75	65.62	66.12	58.66	51.56	44.87	38.67	32.97	27.80			
8		69.91	72.65	74.74	76.26	77.29	77.88	69.09	60.72	52.84	45.55	38.83	32.74			
10		81.82	85.04	87.48	89.26	90.47	91.15	80.86	71.08	61.85	53.32	45.45	38.33			
11		104.4	108.5	111.6	113.9	115.4	116.3	103.2	90.69	78.92	68.03	57.99	48.90			
+ 40	0.3		0.53	0.56	0.59	0.62	0.63	0.64	0.58	0.51	0.45	0.39	0.33	0.28		
	0.5		1.00	1.07	1.13	1.17	1.20	1.22	1.10	0.97	0.85	0.74	0.63	0.54		
	0.7		1.37	1.47	1.54	1.60	1.64	1.68	1.50	1.33	1.17	1.01	0.87	0.74		
	1.0		2.00	2.14	2.26	2.34	2.40	2.45	2.19	1.94	1.70	1.48	1.27	1.08		
	1.5		3.22	3.44	3.62	3.76	3.86	3.93	3.52	3.12	2.73	2.37	2.04	1.73		
	2.0		4.06	4.35	4.57	4.74	4.87	4.96	4.44	3.94	3.45	3.00	2.57	2.18		
	2.5		5.85	6.26	6.59	6.83	7.02	7.15	6.41	5.68	4.98	4.12	3.70	3.14		
	3.0		9.38	10.05	10.56	10.96	11.26	11.47	10.27	9.10	7.98	6.92	5.94	5.04		
	3.5		12.34	13.21	13.88	14.41	14.80	15.08	13.50	11.97	10.49	9.10	7.81	6.62		
	4.5		17.19	18.40	19.34	20.07	20.62	21.00	18.81	16.67	14.61	12.68	10.88	9.23		
	4.75		22.67	24.27	25.51	26.47	27.19	27.70	24.81	21.99	19.27	16.73	14.35	12.17		
	5		29.42	31.49	33.11	34.35	35.29	35.95	32.20	28.53	25.01	21.71	18.62	15.79		
	6		42.91	45.94	48.29	50.12	51.48	52.44	46.97	41.62	36.49	31.66	27.16	23.03		
7		55.14	59.03	62.06	64.40	66.15	67.39	60.35	53.49	46.88	40.69	34.90	29.60			
8		64.95	69.53	73.10	75.85	77.91	79.37	71.09	63.00	55.22	47.92	41.10	34.86			
10		76.02	81.38	85.55	88.78	91.19	92.90	83.20	73.74	64.63	55.09	48.11	40.80			
11		97.00	103.8	109.2	113.3	116.4	118.5	106.2	94.09	82.47	71.57	61.39	52.07			
+ 35	0.3		0.48	0.53	0.57	0.60	0.62	0.63	0.57	0.51	0.45	0.39	0.33	0.29		
	0.5		0.92	1.01	1.08	1.13	1.17	1.20	1.09	0.97	0.85	0.74	0.64	0.54		
	0.7		1.25	1.38	1.47	1.55	1.61	1.65	1.49	1.32	1.16	1.01	0.87	0.74		
	1.0		1.83	2.01	2.15	2.26	2.35	2.41	2.17	1.93	1.70	1.48	1.28	1.08		
	1.5		2.94	3.23	3.46	3.63	3.77	3.87	3.48	3.10	2.73	2.38	2.05	1.74		
	2.0		3.70	4.08	4.36	4.59	4.76	4.88	4.40	3.92	3.45	3.00	2.58	2.20		
	2.5		5.35	5.88	6.29	6.61	6.86	7.04	6.34	5.65	4.97	4.33	3.72	3.17		
	3.0		8.57	9.43	10.09	10.60	10.11	11.28	10.17	9.05	7.97	6.94	5.97	5.08		
	3.5		11.27	12.39	13.26	13.94	14.45	14.83	13.36	11.90	10.48	9.12	7.85	6.68		
	4.5		15.70	17.26	18.48	19.42	20.14	20.67	18.62	16.58	14.59	12.71	10.94	9.30		
	4.75		20.70	22.77	24.37	25.61	26.56	27.26	24.56	21.87	19.25	16.77	14.43	12.27		
	5		26.87	29.55	31.62	33.24	34.47	35.37	31.87	28.38	24.98	21.76	18.72	15.92		
	6		39.19	43.11	46.13	48.48	50.28	51.60	46.49	41.40	36.44	31.74	27.31	23.23		
7		50.36	55.39	59.28	62.30	64.61	66.30	59.74	53.20	46.83	40.79	35.09	29.58			
8		59.32	65.24	69.82	73.38	76.10	78.09	70.36	62.66	55.15	48.04	41.33	35.16			
10		69.43	76.36	81.72	85.89	89.10	91.41	82.35	73.34	64.56	56.23	48.38	41.15			
11		88.60	97.44	104.3	109.6	113.7	116.6	105.1	93.59	82.37	71.75	61.73	52.51			

Capacities are based on 1 K subcooling and 1.5 bar pressure drop within the circuit.
For other conditions use the Honeywell valve calculation software.

Honeywell	Quick selection table Cooling capacity Q₀ (kW)	for all Expansion Valve series	R410A
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Condensing temperature t _c (°C)	Orifice size	Evaporating temperature t ₀ (°C)														
		+ 20	+ 15	+ 10	+ 5	± 0	- 5	- 10	- 15	- 20	- 25	- 30	- 35	- 40	- 45	- 50
+ 30	0.3		0.42	0.48	0.53	0.56	0.59	0.61	0.56	0.50	0.44	0.39	0.33	0.28		
	0.5		0.79	0.91	1.00	1.07	1.13	1.17	1.06	0.95	0.84	0.73	0.63	0.54		
	0.7		1.08	1.25	1.37	1.47	1.54	1.60	1.45	1.30	1.15	1.00	0.87	0.74		
	1.0		1.58	1.82	2.00	2.14	2.25	2.33	2.12	1.90	1.68	1.47	1.27	1.08		
	1.5		2.53	2.92	3.22	3.44	3.62	3.75	3.40	3.05	2.69	2.36	2.03	1.74		
	2.0		3.20	3.69	4.06	4.34	4.56	4.73	4.29	3.85	3.40	2.97	2.57	2.19		
	2.5		4.61	5.32	5.85	6.26	6.58	6.82	6.19	5.54	4.90	4.29	3.70	3.16		
	3.0		7.39	8.53	9.38	10.04	10.55	10.93	9.92	8.89	7.86	6.87	5.94	5.06		
	3.5		9.72	11.21	12.34	13.20	13.87	14.37	13.01	11.68	10.33	9.04	7.80	6.66		
	4.5		13.54	15.62	17.18	18.39	19.32	20.02	18.17	16.28	14.40	12.59	10.87	9.27		
	4.75		17.86	20.60	22.67	24.26	25.48	26.40	23.96	21.47	18.99	16.61	14.34	12.23		
	5		23.18	26.73	29.41	31.48	33.07	34.26	31.10	27.86	24.64	21.55	18.60	15.87		
	6		33.81	39.00	42.91	45.93	48.24	49.98	45.37	40.64	35.94	31.44	27.14	23.16		
7		43.45	50.11	55.14	59.02	61.99	64.23	58.30	52.23	46.19	40.39	34.88	29.75			
8		51.17	59.02	64.94	69.51	73.01	75.65	68.66	61.51	54.40	47.58	41.08	35.05			
10		59.90	69.08	76.01	81.36	85.46	88.54	80.36	72.00	63.67	55.69	48.08	41.02			
11		76.43	88.15	96.99	103.8	109.1	113.0	102.6	91.87	81.25	71.06	61.35	52.34			
+ 25	0.3		0.41	0.42	0.52	0.56	0.58	0.54	0.48	0.43	0.38	0.33	0.28			
	0.5		0.77	0.90	0.99	1.06	1.11	1.02	0.92	0.82	0.72	0.62	0.53			
	0.7		1.06	1.23	1.35	1.45	1.52	1.39	1.26	1.12	0.98	0.85	0.73			
	1.0		1.55	1.80	1.98	2.11	2.22	2.03	1.84	1.63	1.44	1.24	1.07			
	1.5		2.49	2.88	3.17	3.39	3.56	3.26	2.95	2.62	2.30	2.00	1.71			
	2.0		3.14	3.63	4.00	4.28	4.50	4.12	3.72	3.31	2.91	2.52	2.16			
	2.5		4.52	5.24	5.77	6.17	6.48	5.94	5.36	4.77	4.19	3.63	3.11			
	3.0		7.26	8.39	9.25	9.90	10.39	9.53	8.60	7.65	6.72	5.83	4.99			
	3.5		9.54	11.04	12.16	13.02	13.66	12.52	11.30	10.06	8.84	7.66	6.56			
	4.5		13.29	15.37	16.94	18.13	19.03	17.45	15.75	14.01	12.31	10.67	9.14			
	4.75		17.53	20.28	22.35	23.92	25.11	23.01	20.77	18.48	16.24	14.08	12.05			
	5		22.74	26.31	29.00	31.04	32.58	29.86	26.95	23.98	21.07	18.27	15.64			
	6		33.18	38.39	42.30	45.28	47.53	43.56	39.32	34.98	30.74	26.65	22.81			
7		42.63	49.33	54.36	58.18	61.07	55.98	50.53	44.95	39.50	34.24	29.31				
8		50.22	58.10	64.02	68.52	71.93	65.93	59.51	52.94	46.53	40.33	34.52				
10		58.78	68.00	74.94	80.21	84.19	77.17	69.66	61.96	54.46	47.20	40.41				
11		75.00	86.77	95.62	102.3	107.4	98.47	88.88	79.07	69.49	60.23	51.56				
+ 20	0.3		0.30	0.40	0.46	0.51	0.54	0.51	0.46	0.41	0.37	0.32	0.27			
	0.5		0.58	0.75	0.88	0.97	1.03	0.96	0.88	0.78	0.69	0.60	0.52			
	0.7		0.79	1.03	1.20	1.32	1.41	1.31	1.20	1.07	0.95	0.83	0.71			
	1.0		1.16	1.51	1.75	1.93	2.07	1.92	1.75	1.57	1.39	1.21	1.04			
	1.5		1.86	2.42	2.81	3.10	3.32	3.08	2.81	2.52	2.23	1.94	1.67			
	2.0		2.34	3.05	3.55	3.91	4.19	3.89	3.55	3.18	2.81	2.45	2.10			
	2.5		3.38	4.40	5.11	5.64	6.03	5.61	5.11	4.58	4.05	3.53	3.03			
	3.0		5.41	7.05	8.20	9.04	9.68	8.99	8.20	7.34	6.50	5.66	4.86			
	3.5		7.12	9.27	10.77	11.88	12.72	11.82	10.77	9.66	8.54	7.43	6.39			
	4.5		9.91	12.91	15.01	16.56	17.72	16.46	15.01	13.45	11.89	10.36	8.90			
	4.75		13.08	17.03	19.80	21.84	23.37	21.72	19.80	17.74	15.69	13.66	11.74			
	5		16.97	22.10	25.69	28.34	30.33	28.18	25.69	23.02	20.36	17.73	15.24			
	6		24.75	32.24	37.48	41.34	44.24	41.11	37.48	33.59	29.69	25.86	22.22			
7		31.81	41.43	48.16	53.12	56.85	52.82	48.16	43.16	38.16	33.23	28.56				
8		37.46	48.79	56.72	62.57	66.96	62.22	56.72	50.83	44.94	39.14	33.64				
10		43.85	57.11	66.39	73.23	78.38	72.82	66.39	59.50	52.60	45.81	39.37				
11		55.95	72.88	84.71	93.45	100.0	92.92	84.71	75.92	67.12	58.46	50.24				

Capacities are based on 1 K subcooling and 1.5 bar pressure drop within the circuit.
For other conditions use the Honeywell valve calculation software.

Honeywell	Quick selection table Cooling capacity Q₀ (kW)	for all Expansion Valve series	R413A
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Condensing temperature t _c (°C)	Orifice size	Evaporating temperature t ₀ (°C)														
		+ 30	+ 20	+ 15	+ 10	+ 5	± 0	- 5	- 10	- 15	- 20	- 25	- 30	- 35	- 40	- 45
+ 50	0.3		0.33	0.35	0.36	0.37	0.37	0.37	0.37	0.31	0.26	0.22	0.18			
	0.5		0.64	0.67	0.69	0.70	0.70	0.70	0.70	0.60	0.50	0.42	0.35			
	0.7		0.89	0.93	0.95	0.97	0.97	0.97	0.97	0.83	0.70	0.58	0.48			
	1.0		1.28	1.34	1.37	1.40	1.41	1.41	1.40	1.19	1.01	0.84	0.69			
	1.5		2.12	2.21	2.27	2.31	2.33	2.32	2.31	1.97	1.66	1.39	1.14			
	2.0		2.61	2.72	2.80	2.85	2.87	2.87	2.85	2.43	2.05	1.71	1.41			
	2.5		3.79	3.96	4.07	4.13	4.16	4.16	4.14	3.53	2.98	2.48	2.05			
	3.0		5.96	6.22	6.39	6.50	6.54	6.54	6.50	5.55	4.68	3.90	3.21			
	3.5		7.88	8.22	8.45	8.59	8.65	8.65	8.59	7.34	6.19	5.16	4.25			
	4.5		11.03	11.51	11.83	12.03	12.11	12.11	12.03	10.27	8.66	7.22	5.95			
	4.75		14.48	15.11	15.53	15.78	15.90	15.89	15.79	13.48	11.37	9.48	7.81			
	5		18.82	19.63	20.18	20.51	20.66	20.65	20.52	17.52	14.78	12.32	10.15			
	6		27.49	28.68	29.48	29.96	30.17	30.17	29.97	25.59	21.58	17.99	14.83			
7		35.37	36.90	37.93	38.55	38.82	38.81	38.56	32.92	27.77	23.15	19.08				
8		41.57	43.38	44.59	45.31	45.64	45.63	45.33	38.70	32.64	27.21	22.42				
10		48.67	50.78	52.20	53.04	53.42	53.41	53.06	45.30	38.21	31.86	26.25				
11		58.02	60.55	62.23	63.25	63.70	63.68	63.27	54.01	45.56	37.98	31.30				
+ 40	0.3		0.27	0.30	0.32	0.33	0.34	0.35	0.35	0.30	0.26	0.22	0.18			
	0.5		0.51	0.56	0.60	0.63	0.65	0.66	0.67	0.58	0.49	0.41	0.34			
	0.7		0.71	0.78	0.84	0.87	0.90	0.92	0.92	0.80	0.68	0.57	0.48			
	1.0		1.02	1.13	1.21	1.26	1.30	1.32	1.33	1.15	0.98	0.83	0.69			
	1.5		1.69	1.87	2.00	2.09	2.15	2.19	2.20	1.91	1.63	1.37	1.14			
	2.0		2.08	2.30	2.46	2.57	2.65	2.69	2.72	2.35	2.00	1.69	1.40			
	2.5		3.02	3.34	3.57	3.74	3.85	3.92	3.95	3.41	2.91	2.45	2.04			
	3.0		4.74	5.25	5.62	5.87	6.05	6.15	6.20	5.36	4.57	3.85	3.21			
	3.5		6.27	6.95	7.43	7.77	8.00	8.14	8.20	7.09	6.05	5.10	4.24			
	4.5		8.78	9.72	10.40	10.87	11.19	11.39	11.48	9.93	8.47	7.13	5.93			
	4.75		11.52	12.76	13.65	14.27	14.69	14.95	15.07	13.03	11.12	9.36	7.79			
	5		14.97	16.58	17.73	18.54	19.09	19.42	19.58	16.93	14.44	12.17	10.12			
	6		21.87	24.22	25.90	27.09	27.88	28.37	28.60	24.73	21.10	17.77	14.78			
7		28.14	31.17	33.33	34.86	35.88	36.51	36.80	31.82	27.15	22.87	19.02				
8		33.08	36.64	39.18	40.97	42.18	42.91	43.26	37.41	31.91	26.88	22.36				
10		38.72	42.89	45.87	47.96	49.37	50.24	50.64	43.79	37.36	31.46	26.18				
11		47.58	52.70	56.36	58.93	60.66	61.72	62.23	53.80	45.90	38.66	32.16				
+ 35	0.3		0.25	0.28	0.30	0.32	0.33	0.33	0.29	0.25	0.21	0.18				
	0.5		0.49	0.54	0.58	0.61	0.63	0.64	0.55	0.48	0.40	0.34				
	0.7		0.67	0.75	0.80	0.84	0.87	0.88	0.77	0.66	0.56	0.47				
	1.0		0.97	1.08	1.16	1.21	1.25	1.27	1.11	0.95	0.81	0.67				
	1.5		1.61	1.79	1.92	2.01	2.07	2.11	1.83	1.58	1.33	1.12				
	2.0		1.98	2.20	2.36	2.47	2.55	2.59	2.26	1.94	1.65	1.38				
	2.5		2.88	3.20	3.43	3.59	3.70	3.77	3.29	2.82	2.39	2.00				
	3.0		4.52	5.03	5.39	5.65	5.82	5.92	5.16	4.43	3.76	3.14				
	3.5		5.98	6.65	7.13	7.47	7.69	7.83	6.83	5.86	4.97	4.15				
	4.5		8.37	9.31	9.98	10.45	10.77	10.97	9.56	8.21	6.95	5.81				
	4.75		10.98	12.22	13.10	13.72	14.14	14.39	12.54	10.77	9.13	7.63				
	5		14.27	15.88	17.03	17.83	18.37	18.70	16.30	14.00	11.86	9.91				
	6		20.85	23.20	24.87	26.04	26.83	27.32	23.81	20.45	17.32	14.48				
7		26.83	29.85	32.00	33.51	34.53	35.15	30.64	26.31	22.29	18.63					
8		31.53	35.09	37.62	39.39	40.59	41.32	36.01	30.93	26.20	21.90					
10		36.91	41.07	44.03	46.11	47.51	48.37	42.16	36.20	30.67	25.64					
11		45.97	51.15	54.83	57.42	59.17	60.23	52.49	45.08	38.19	31.93					

Capacities are based on 1 K subcooling and 1.5 bar pressure drop within the circuit.
For other conditions use the Honeywell valve calculation software.

Honeywell	Quick selection table Cooling capacity Q₀ (kW)	for all Expansion Valve series	R413A
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Condensing temperature t _c (°C)	Orifice size	Evaporating temperature t ₀ (°C)														
		+ 30	+ 20	+ 15	+ 10	+ 5	± 0	- 5	- 10	- 15	- 20	- 25	- 30	- 35	- 40	- 45
+ 30	0.3			0.20	0.24	0.27	0.29	0.30	0.31	0.27	0.24	0.20	0.17			
	0.5			0.38	0.46	0.51	0.55	0.58	0.60	0.53	0.46	0.39	0.33			
	0.7			0.52	0.63	0.71	0.76	0.80	0.83	0.73	0.63	0.54	0.45			
	1.0			0.76	0.92	1.03	1.10	1.16	1.19	1.05	0.91	0.78	0.65			
	1.5			1.25	1.52	1.70	1.83	1.92	1.98	1.74	1.51	1.28	1.08			
	2.0			1.54	1.87	2.09	2.25	2.36	2.43	2.14	1.86	1.58	1.33			
	2.5			2.24	2.72	3.04	3.27	3.43	3.54	3.11	2.70	2.30	1.93			
	3.0			3.53	4.27	4.78	5.14	5.39	5.56	4.89	4.24	3.61	3.04			
	3.5			4.66	5.64	6.32	6.79	7.13	7.35	6.47	5.60	4.78	4.02			
	4.5			6.53	7.90	8.84	9.51	9.98	10.29	9.06	7.84	6.69	5.62			
	4.75			8.57	10.37	11.61	12.48	13.09	13.51	11.89	10.29	8.78	7.38			
	5			11.13	13.47	15.08	16.22	17.01	17.55	15.45	13.37	11.40	9.59			
	6			16.26	19.68	22.03	23.69	24.85	25.63	22.57	19.53	16.66	14.01			
7			20.92	25.32	28.35	30.48	31.98	32.98	29.04	25.14	21.43	18.02				
8			24.60	29.77	33.32	35.83	37.59	38.77	34.13	29.55	25.19	21.19				
10			28.79	34.84	39.00	41.94	44.00	45.39	39.95	34.59	29.49	24.80				
11			36.31	43.94	49.19	52.89	55.49	57.24	50.39	43.62	37.19	31.27				
+ 25	0.3			0.11	0.18	0.22	0.25	0.27	0.29	0.26	0.22	0.19	0.16			
	0.5			0.21	0.35	0.43	0.48	0.52	0.55	0.49	0.43	0.37	0.31			
	0.7			0.29	0.48	0.59	0.67	0.72	0.76	0.68	0.59	0.51	0.43			
	1.0			0.41	0.69	0.86	0.97	1.04	1.10	0.98	0.86	0.74	0.62			
	1.5			0.69	1.15	1.42	1.60	1.72	1.81	1.62	1.42	1.22	1.03			
	2.0			0.85	1.41	1.74	1.97	2.12	2.23	1.99	1.74	1.50	1.27			
	2.5			1.23	2.05	2.53	2.86	3.09	3.25	2.90	2.53	2.18	1.84			
	3.0			1.93	3.23	3.98	4.49	4.85	5.10	4.55	3.98	3.42	2.90			
	3.5			2.55	4.27	5.27	5.94	6.41	6.74	6.02	5.27	4.53	3.83			
	4.5			3.58	5.98	7.37	8.32	8.98	9.44	8.43	7.37	6.34	5.37			
	4.75			4.69	7.84	9.68	10.92	11.79	12.39	11.06	9.68	8.32	7.04			
	5			6.10	10.19	12.57	14.18	15.31	16.10	14.37	12.57	10.81	9.15			
	6			8.91	14.88	18.37	20.72	22.37	23.52	20.99	18.36	15.79	13.36			
7			11.46	19.15	23.63	26.66	28.78	30.26	27.01	23.63	20.32	17.20				
8			13.47	22.51	27.78	31.34	33.84	35.58	31.75	27.78	23.88	20.21				
10			15.77	26.35	32.52	36.68	39.61	41.65	37.17	32.51	27.95	23.66				
11			20.12	33.63	41.49	46.81	50.54	53.14	47.43	41.49	35.67	30.20				
+ 20	0.3			0.08	0.16	0.21	0.23	0.25	0.23	0.21	0.18	0.15				
	0.5			0.15	0.31	0.39	0.45	0.49	0.44	0.39	0.34	0.29				
	0.7			0.21	0.43	0.55	0.62	0.67	0.61	0.55	0.47	0.41				
	1.0			0.31	0.62	0.79	0.90	0.97	0.89	0.79	0.69	0.59				
	1.5			0.51	1.03	1.30	1.48	1.61	1.47	1.30	1.13	0.97				
	2.0			0.63	1.27	1.61	1.83	1.99	1.81	1.61	1.40	1.19				
	2.5			0.92	1.84	2.33	2.66	2.89	2.63	2.33	2.03	1.73				
	3.0			1.44	2.89	3.66	4.18	4.54	4.13	3.67	3.19	2.72				
	3.5			1.90	3.82	4.85	5.53	6.00	5.47	4.85	4.22	3.60				
	4.5			2.67	5.35	6.78	7.74	8.40	7.65	6.79	5.90	5.04				
	4.75			3.50	7.02	8.90	10.15	11.02	10.04	8.91	7.75	6.62				
	5			4.55	9.12	11.57	13.19	14.32	13.05	11.58	10.07	8.60				
	6			6.64	13.32	16.90	19.27	20.91	19.06	16.92	14.71	12.56				
7			8.55	17.14	21.74	24.80	26.91	24.52	21.77	18.92	16.16					
8			10.05	20.15	25.56	29.15	31.63	28.83	25.59	22.25	18.99					
10			11.76	23.59	29.92	34.12	37.03	33.75	29.96	26.04	22.23					
11			15.18	30.44	38.61	44.03	47.78	43.55	38.66	33.60	28.69					

Capacities are based on 1 K subcooling and 1.5 bar pressure drop within the circuit.
For other conditions use the Honeywell valve calculation software.

Honeywell	Quick selection table Cooling capacity Q₀ (kW)	for all Expansion Valve series	R417A
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Condensing temperature t _c (°C)	Orifice size	Evaporating temperature t ₀ (°C)														
		+ 20	+ 15	+ 10	+ 5	± 0	- 5	- 10	- 15	- 20	- 25	- 30	- 35	- 40	- 45	- 50
+ 50	0.3	0.36	0.38	0.39	0.40	0.40	0.41	0.41	0.35	0.30	0.25	0.21	0.18			
	0.5	0.68	0.71	0.74	0.75	0.76	0.77	0.77	0.66	0.56	0.47	0.39	0.32			
	0.7	0.93	0.97	1.01	1.03	1.05	1.05	1.05	0.91	0.77	0.65	0.54	0.44			
	1.0	1.36	1.42	1.47	1.51	1.53	1.54	1.54	1.32	1.12	0.94	0.78	0.64			
	1.5	2.18	2.29	2.36	2.42	2.45	2.47	2.47	2.12	1.80	1.52	1.26	1.03			
	2.0	2.75	2.89	2.98	3.05	3.10	3.12	3.12	2.68	2.28	1.91	1.59	1.30			
	2.5	3.97	4.16	4.30	4.40	4.50	4.49	4.50	3.86	3.28	2.76	2.29	1.88			
	3.0	6.36	6.67	6.90	7.05	7.15	7.20	7.21	6.20	5.26	4.42	3.67	3.01			
	3.5	8.36	8.77	9.07	9.27	9.40	9.47	9.48	8.15	6.92	5.81	4.83	3.96			
	4.5	11.65	12.22	12.63	12.92	13.10	13.19	13.21	11.35	9.64	8.10	6.72	5.52			
	4.75	15.36	16.11	16.66	17.04	17.28	17.40	17.42	14.97	12.72	10.68	8.87	7.28			
	5	19.94	20.91	21.62	22.11	22.42	22.58	22.60	19.43	16.50	13.86	11.51	9.45			
	6	29.08	30.50	31.53	32.25	32.70	32.93	32.97	28.34	24.07	20.21	16.79	13.79			
7	37.37	39.19	40.52	41.44	42.02	42.32	42.37	36.42	30.93	25.97	21.57	17.71				
8	44.02	46.16	47.73	48.81	49.50	49.84	49.90	42.89	36.43	30.59	25.41	20.86				
10	51.52	54.03	55.86	57.13	57.93	58.34	58.41	50.20	42.64	35.81	29.74	24.42				
11	55.63	57.95	59.47	60.33	60.63	60.47	59.92	52.27	45.27	38.62	32.74	27.42				
+ 40	0.3	0.28	0.31	0.34	0.35	0.37	0.37	0.38	0.33	0.28	0.24	0.20	0.17			
	0.5	0.54	0.60	0.64	0.67	0.69	0.71	0.72	0.63	0.54	0.45	0.38	0.31			
	0.7	0.74	0.82	0.88	0.92	0.95	0.97	0.99	0.86	0.73	0.62	0.52	0.43			
	1.0	1.08	1.19	1.28	1.34	1.39	1.42	1.44	1.25	1.07	0.91	0.76	0.63			
	1.5	1.73	1.91	2.05	2.15	2.23	2.28	2.31	2.01	1.72	1.46	1.22	1.01			
	2.0	2.18	2.42	2.59	2.72	2.81	2.88	2.92	2.54	2.17	1.84	1.54	1.27			
	2.5	3.15	3.48	3.73	3.92	4.06	4.15	4.21	3.66	3.13	2.65	2.22	1.84			
	3.0	5.05	5.59	5.99	6.29	6.50	6.65	6.75	5.86	5.03	4.26	3.56	2.95			
	3.5	6.63	7.34	7.87	8.26	8.55	8.74	8.87	7.71	6.61	5.60	4.68	3.87			
	4.5	9.24	10.23	10.97	11.51	11.91	12.18	12.36	10.74	9.21	7.80	6.52	5.40			
	4.75	12.19	13.50	14.47	15.19	15.71	16.07	16.30	14.16	12.14	10.28	8.60	7.12			
	5	15.82	17.51	18.77	19.71	20.38	20.85	21.15	18.38	15.76	13.34	11.17	9.23			
	6	23.07	25.55	27.39	28.75	29.73	30.42	30.85	26.81	22.99	19.46	16.29	13.47			
7	29.65	32.83	35.19	36.94	38.21	39.09	39.64	34.45	29.54	25.01	20.93	17.31				
8	34.92	38.67	41.45	43.51	45	46.04	46.69	40.57	34.79	29.50	24.65	20.39				
10	40.87	45.26	48.51	50.93	52.67	53.88	54.65	47.49	40.72	34.48	28.85	23.86				
11	48.41	53.33	56.86	59.33	60.95	61.91	62.32	55.13	48.37	41.77	35.83	30.36				
+ 35	0.3		0.27	0.30	0.32	0.34	0.35	0.36	0.32	0.27	0.23	0.19	0.16			
	0.5		0.52	0.57	0.62	0.65	0.67	0.68	0.60	0.52	0.44	0.37	0.31			
	0.7		0.71	0.78	0.84	0.88	0.92	0.94	0.82	0.71	0.60	0.51	0.42			
	1.0		1.03	1.15	1.23	1.29	1.34	1.37	1.20	1.03	0.88	0.74	0.61			
	1.5		1.66	1.84	1.98	2.07	2.15	2.20	1.92	1.66	1.41	1.19	0.98			
	2.0		2.09	2.32	2.49	2.62	2.71	2.77	2.43	2.09	1.78	1.50	1.24			
	2.5		3.01	3.35	3.59	3.78	3.91	4.00	3.50	3.02	2.57	2.16	1.79			
	3.0		4.83	5.37	5.76	6.05	6.26	6.41	5.61	4.84	4.12	3.46	2.87			
	3.5		6.36	7.06	7.58	7.96	8.23	8.43	7.37	6.36	5.41	4.55	3.78			
	4.5		8.85	9.83	10.55	11.09	11.47	11.74	10.27	8.86	7.54	6.34	5.26			
	4.75		11.68	12.97	13.92	14.62	15.13	15.48	13.55	11.69	9.94	8.36	6.94			
	5		15.15	16.83	18.06	18.98	19.64	20.09	17.58	15.16	12.90	10.84	9.00			
	6		22.11	24.55	26.35	27.68	28.64	29.31	25.65	22.12	18.82	15.82	13.13			
7		28.41	31.54	33.86	35.57	36.81	37.66	32.96	28.42	24.19	20.33	16.88				
8		33.46	37.15	39.88	41.90	43.35	44.36	38.82	33.48	28.49	23.94	19.88				
10		39.16	43.49	46.68	49.04	50.74	51.92	45.43	39.19	33.35	28.02	23.26				
11		47.93	52.97	56.56	59.06	60.73	61.73	55.06	48.65	42.27	36.46	31.06				

Capacities are based on 1 K subcooling and 1.5 bar pressure drop within the circuit.
For other conditions use the Honeywell valve calculation software.

Honeywell	Quick selection table Cooling capacity Q₀ (kW)	for all Expansion Valve series	R417A
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Condensing temperature t _c (°C)	Orifice size	Evaporating temperature t ₀ (°C)														
		+ 20	+ 15	+ 10	+ 5	± 0	- 5	- 10	- 15	- 20	- 25	- 30	- 35	- 40	- 45	- 50
+ 30	0.3		0.22	0.26	0.29	0.31	0.33	0.34	0.30	0.26	0.22	0.19	0.16			
	0.5		0.41	0.49	0.55	0.59	0.62	0.64	0.57	0.49	0.42	0.36	0.30			
	0.7		0.56	0.67	0.75	0.81	0.85	0.88	0.77	0.67	0.58	0.49	0.41			
	1.0		0.82	0.98	1.09	1.18	1.24	1.28	1.13	0.98	0.84	0.71	0.59			
	1.5		1.32	1.58	1.76	1.89	1.99	2.06	1.82	1.58	1.35	1.14	0.95			
	2.0		1.67	1.99	2.22	2.38	2.51	2.60	2.29	1.99	1.70	1.44	1.20			
	2.5		2.41	2.87	3.20	3.44	3.61	3.74	3.30	2.87	2.46	2.07	1.73			
	3.0		3.86	4.60	5.12	5.51	5.79	6.00	5.30	4.60	3.94	3.33	2.77			
	3.5		5.08	6.04	6.74	7.24	7.62	7.89	6.96	6.05	5.18	4.37	3.65			
	4.5		7.07	8.42	9.38	10.09	10.61	10.99	9.70	8.43	7.21	6.09	5.08			
	4.75		9.33	11.11	12.38	13.31	14.00	14.49	12.79	11.11	9.51	8.03	6.70			
	5		12.10	14.41	16.06	17.27	18.16	18.80	16.60	14.42	12.35	10.43	8.69			
	6		17.65	21.02	23.43	25.20	26.49	27.43	24.22	21.04	18.01	15.21	12.70			
7		22.69	27.01	30.11	32.38	34.05	35.25	31.12	27.04	23.14	19.54	16.29				
8		26.72	31.82	35.46	38.13	40.10	41.52	36.66	31.84	27.26	23.02	19.19				
10		31.27	37.24	41.51	44.63	46.93	48.59	42.91	37.27	31.90	26.94	22.46				
11		39.61	46.97	52.10	55.73	58.28	59.98	54.03	48.12	42.10	36.53	31.28				
+ 25	0.3			0.19	0.24	0.27	0.29	0.31	0.28	0.24	0.21	0.18	0.15			
	0.5			0.39	0.46	0.52	0.56	0.59	0.53	0.46	0.40	0.34	0.28			
	0.7			0.53	0.63	0.71	0.77	0.81	0.72	0.63	0.54	0.46	0.39			
	1.0			0.77	0.93	1.04	1.12	1.18	1.05	0.92	0.80	0.68	0.57			
	1.5			1.24	1.49	1.67	1.79	1.89	1.69	1.48	1.28	1.09	0.91			
	2.0			1.56	1.88	2.10	2.27	2.39	2.13	1.87	1.61	1.37	1.15			
	2.5			2.25	2.71	3.03	3.27	3.44	3.07	2.69	2.32	1.97	1.65			
	3.0			3.60	4.34	4.86	5.24	5.51	4.93	4.32	3.73	3.17	2.65			
	3.5			4.74	5.70	6.39	6.88	7.25	6.48	5.68	4.90	4.16	3.5			
	4.5			6.60	7.95	8.90	9.59	10.10	9.03	7.91	6.82	5.80	4.86			
	4.75			8.71	10.48	11.73	12.65	13.32	11.91	10.44	9.00	7.65	6.41			
	5			11.30	13.60	15.23	16.42	17.28	15.45	13.55	11.68	9.92	8.31			
	6			16.48	19.84	22.21	23.95	25.21	22.54	19.76	17.04	14.47	12.12			
7			21.18	25.50	28.54	30.77	32.40	28.96	25.39	21.89	18.60	15.58				
8			24.94	30.03	33.62	36.24	38.16	34.11	29.91	25.79	21.90	18.35				
10			29.20	35.15	39.35	42.42	44.66	39.92	35.00	30.18	25.64	21.48				
11			37.98	45.53	50.73	54.41	56.99	52.00	46.78	41.25	36.04	31.04				
+ 20	0.3				0.19	0.23	0.26	0.28	0.25	0.22	0.20	0.17	0.14			
	0.5				0.35	0.43	0.49	0.53	0.48	0.43	0.37	0.32	0.27			
	0.7				0.49	0.59	0.67	0.72	0.66	0.58	0.51	0.43	0.37			
	1.0				0.71	0.87	0.98	1.06	0.96	0.85	0.74	0.64	0.54			
	1.5				1.14	1.39	1.57	1.69	1.54	1.37	1.19	1.02	0.86			
	2.0				1.44	1.75	1.98	2.14	1.95	1.73	1.50	1.29	1.08			
	2.5				2.07	2.53	2.85	3.08	2.80	2.49	2.17	1.86	1.56			
	3.0				3.32	4.06	4.57	4.94	4.50	3.99	3.48	2.97	2.51			
	3.5				4.36	5.33	6.01	6.49	5.91	5.25	4.57	3.91	3.30			
	4.5				6.08	7.43	8.37	9.05	8.23	7.31	6.37	5.45	4.59			
	4.75				8.02	9.80	11.04	11.93	10.86	9.64	8.40	7.19	6.06			
	5				10.41	12.71	14.32	15.49	14.09	12.52	10.89	9.32	7.86			
	6				15.18	18.54	20.89	22.59	20.56	18.26	15.89	13.60	11.46			
7				19.51	23.83	26.85	29.03	26.42	23.46	20.42	17.48	14.73				
8				22.98	28.07	31.62	34.19	31.11	27.63	24.05	20.59	17.35				
10				26.89	32.85	37.01	40.02	36.42	32.34	28.15	24.10	20.31				
11				35.84	43.60	48.90	52.63	48.91	44.59	39.73	34.99	30.34				

Capacities are based on 1 K subcooling and 1.5 bar pressure drop within the circuit.
For other conditions use the Honeywell valve calculation software.

Honeywell	Quick selection table Cooling capacity Q₀ (kW)	for all Expansion Valve series	R507
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Condensing temperature t _c (°C)	Orifice size	Evaporating temperature t ₀ (°C)														
		+ 30	+ 20	+ 10	+ 5	± 0	- 5	- 10	- 15	- 20	- 25	- 30	- 35	- 40	- 45	- 50
+ 50	0.3		0.31	0.33	0.34	0.34	0.34	0.34	0.29	0.25	0.21	0.18	0.15	0.12	0.10	0.08
	0.5		0.58	0.63	0.64	0.64	0.64	0.64	0.55	0.47	0.40	0.34	0.28	0.23	0.18	0.15
	0.7		0.84	0.90	0.91	0.92	0.92	0.91	0.79	0.68	0.57	0.48	0.40	0.32	0.26	0.21
	1.0		1.21	1.30	1.32	1.33	1.33	1.32	1.14	0.98	0.83	0.70	0.58	0.47	0.38	0.30
	1.5		1.92	2.06	2.09	2.11	2.11	2.09	1.81	1.56	1.32	1.10	0.91	0.75	0.60	0.48
	2.0		2.42	2.60	2.64	2.66	2.66	2.64	2.29	1.96	1.66	1.39	1.15	0.94	0.76	0.60
	2.5		3.51	3.76	3.82	3.85	3.85	3.82	3.31	2.84	2.41	2.02	1.67	1.36	1.10	0.87
	3.0		5.60	6.00	6.10	6.14	6.14	6.09	5.28	4.53	3.84	3.22	2.66	2.17	1.75	1.39
	3.5		7.35	7.88	8.01	8.07	8.06	8.00	6.94	5.95	5.04	4.22	3.50	2.85	2.30	1.83
	4.5		10.27	11.02	11.20	11.28	11.27	11.19	9.70	8.32	7.05	5.90	4.89	3.99	3.21	2.55
	4.75		13.53	14.52	14.75	14.86	14.84	14.73	12.77	10.96	9.29	7.78	6.43	5.25	4.23	3.36
	5		17.54	18.82	19.12	19.26	19.24	19.10	16.56	14.21	12.04	10.08	8.34	6.81	5.48	4.36
	6		25.56	27.42	27.87	28.06	28.04	27.83	24.13	20.70	17.54	14.69	12.15	9.92	7.99	6.35
	7		32.82	35.21	35.79	36.04	36.01	35.75	30.98	26.59	22.53	18.86	15.61	12.74	10.26	8.15
8		38.67	41.48	42.17	42.46	42.43	42.11	36.50	31.33	26.54	22.22	18.39	15.01	12.09	9.60	
10		45.27	48.56	49.36	49.71	49.67	49.30	42.73	36.67	31.07	26.01	21.53	17.58	14.15	11.24	
11		57.10	61.97	62.98	63.42	63.37	62.90	54.53	46.79	39.64	33.19	27.47	22.43	18.06	14.34	
+ 40	0.3		0.28	0.32	0.34	0.35	0.35	0.36	0.31	0.27	0.23	0.20	0.17	0.14	0.11	0.09
	0.5		0.53	0.61	0.64	0.66	0.67	0.67	0.59	0.52	0.44	0.37	0.31	0.26	0.21	0.17
	0.7		0.75	0.88	0.92	0.94	0.96	0.96	0.85	0.74	0.63	0.53	0.45	0.37	0.30	0.24
	1.0		1.09	1.27	1.33	1.36	1.39	1.40	1.23	1.07	0.91	0.78	0.65	0.54	0.44	0.35
	1.5		1.73	2.02	2.11	2.16	2.20	2.22	1.95	1.69	1.45	1.23	1.03	0.85	0.69	0.56
	2.0		2.18	2.55	2.66	2.73	2.77	2.80	2.46	2.13	1.83	1.55	1.30	1.07	0.87	0.70
	2.5		3.16	3.69	3.85	3.95	4.02	4.05	3.56	3.09	2.65	2.25	1.88	1.55	1.27	1.02
	3.0		5.05	5.88	6.14	6.31	6.41	6.46	5.67	4.93	4.23	3.58	3.00	2.48	2.02	1.63
	3.5		6.63	7.73	8.06	8.28	8.42	8.48	7.45	6.48	5.55	4.70	3.94	3.25	2.65	2.13
	4.5		9.26	10.80	11.26	11.58	11.77	11.86	10.42	9.05	7.76	6.57	5.50	4.55	3.71	2.98
	4.75		12.20	14.22	14.83	15.25	15.50	15.62	13.72	11.92	10.22	8.66	7.25	5.99	4.88	3.93
	5		15.81	18.44	19.23	19.77	20.09	20.24	17.78	15.45	13.25	11.23	9.40	7.77	6.33	5.09
	6		23.04	26.87	28.02	28.80	29.28	29.50	25.91	22.52	19.31	16.36	13.70	11.31	9.22	7.42
	7		29.59	34.51	35.99	36.99	37.60	37.88	33.28	28.92	24.80	21.01	17.59	14.53	11.84	9.53
8		34.86	40.65	42.40	43.58	44.30	44.63	39.21	34.07	29.21	24.75	20.72	17.12	13.95	11.23	
10		40.81	47.59	49.63	51.01	51.86	52.25	45.90	39.89	34.20	28.97	24.26	20.04	16.33	13.15	
11		51.80	60.73	63.33	65.09	66.17	66.66	58.57	50.90	43.64	36.97	30.95	25.57	20.84	16.77	
+ 35	0.3		0.31	0.33	0.34	0.35	0.36	0.31	0.28	0.24	0.20	0.17	0.14	0.12	0.09	
	0.5		0.58	0.62	0.64	0.66	0.67	0.60	0.52	0.45	0.38	0.32	0.27	0.22	0.18	
	0.7		0.83	0.88	0.92	0.95	0.96	0.85	0.74	0.64	0.55	0.46	0.38	0.31	0.25	
	1.0		1.20	1.28	1.33	1.37	1.39	1.23	1.08	0.93	0.79	0.67	0.55	0.45	0.37	
	1.5		1.91	2.03	2.12	2.17	2.21	1.96	1.71	1.48	1.26	1.06	0.88	0.72	0.58	
	2.0		2.40	2.56	2.67	2.74	2.79	2.47	2.16	1.86	1.59	1.33	1.11	0.91	0.73	
	2.5		3.48	3.70	3.86	3.97	4.04	3.57	3.13	2.70	2.30	1.93	1.60	1.31	1.06	
	3.0		5.55	5.91	6.16	6.33	6.44	5.70	4.99	4.30	3.66	3.08	2.56	2.10	1.69	
	3.5		7.29	7.76	8.09	8.32	8.46	7.49	6.55	5.65	4.81	4.05	3.36	2.75	2.23	
	4.5		10.19	10.85	11.31	11.63	11.82	10.47	9.15	7.89	6.72	5.66	4.70	3.85	3.11	
	4.75		13.42	14.29	14.90	15.32	15.57	13.78	12.06	10.40	8.86	7.45	6.19	5.07	4.10	
	5		17.40	18.52	19.32	19.85	20.18	17.87	15.63	13.48	11.48	9.66	8.02	6.57	5.31	
	6		25.36	26.98	28.15	28.93	29.41	26.04	22.77	19.64	16.73	14.08	11.69	9.57	7.74	
	7		32.56	34.66	36.15	37.16	37.77	33.44	29.25	25.22	21.48	18.08	15.01	12.29	9.94	
8		38.36	40.83	42.59	43.78	44.50	39.39	34.46	29.71	25.31	21.30	17.68	14.48	11.71		
10		44.91	47.80	49.85	51.24	52.10	46.11	40.33	34.78	29.63	24.93	20.70	16.95	13.71		
11		57.31	60.99	63.61	65.39	66.48	58.84	51.47	44.38	37.80	31.81	26.41	21.63	17.49		

Capacities are based on 1 K subcooling and 1.5 bar pressure drop within the circuit.
For other conditions use the Honeywell valve calculation software.

Honeywell	Quick selection table Cooling capacity Q₀ (kW)	for all Expansion Valve series	R507
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Condensing temperature t _c (°C)	Orifice size	Evaporating temperature t ₀ (°C)														
		+ 30	+ 20	+ 10	+ 5	± 0	- 5	- 10	- 15	- 20	- 25	- 30	- 35	- 40	- 45	- 50
+ 30	0.3			0.28	0.30	0.32	0.34	0.35	0.31	0.27	0.24	0.20	0.17	0.14	0.12	0.10
	0.5			0.52	0.58	0.61	0.64	0.66	0.59	0.52	0.45	0.39	0.33	0.27	0.22	0.18
	0.7			0.75	0.82	0.88	0.91	0.94	0.84	0.74	0.64	0.55	0.47	0.39	0.32	0.26
	1.0			1.09	1.19	1.27	1.33	1.36	1.22	1.07	0.93	0.80	0.67	0.56	0.46	0.38
	1.5			1.72	1.89	2.02	2.10	2.16	1.93	1.70	1.48	1.27	1.07	0.89	0.73	0.60
	2.0			2.17	2.39	2.54	2.65	2.73	2.44	2.15	1.86	1.60	1.35	1.13	0.93	0.75
	2.5			3.15	3.46	3.68	3.84	3.95	3.53	3.11	2.70	2.31	1.95	1.63	1.34	1.09
	3.0			5.02	5.51	5.87	6.13	6.30	5.63	4.96	4.30	3.69	3.12	2.60	2.14	1.74
	3.5			6.59	7.24	7.71	8.05	8.27	7.39	6.51	5.65	4.84	4.09	3.41	2.81	2.28
	4.5			9.21	10.12	10.78	11.25	11.56	10.33	9.10	7.90	6.77	5.72	4.77	3.93	3.19
	4.75			12.13	13.33	14.20	14.81	15.23	13.60	11.99	10.40	8.91	7.54	6.29	5.17	4.20
	5			15.73	17.28	18.41	19.20	19.74	17.63	15.54	13.49	11.55	9.77	8.15	6.70	5.44
	6			22.91	25.18	26.82	27.98	28.77	25.70	22.64	19.65	16.83	14.23	11.87	9.77	7.93
	7			29.43	32.34	34.44	35.94	36.95	33.00	29.08	25.24	21.62	18.28	15.25	12.54	10.19
8			34.67	38.10	40.58	42.34	43.53	38.88	34.26	29.73	25.47	21.54	17.96	14.78	12.00	
10			40.59	44.60	47.50	49.56	50.96	45.51	40.10	34.81	29.81	25.21	21.03	17.30	14.05	
11			57.31	60.99	63.61	65.39	66.48	58.84	51.47	44.38	37.80	31.81	26.41	21.63	17.49	
+ 25	0.3			0.23	0.27	0.30	0.32	0.33	0.30	0.27	0.23	0.20	0.17	0.14	0.12	0.10
	0.5			0.44	0.51	0.57	0.60	0.63	0.57	0.51	0.44	0.38	0.32	0.27	0.22	0.18
	0.7			0.63	0.73	0.81	0.86	0.90	0.81	0.72	0.63	0.55	0.46	0.39	0.32	0.26
	1.0			0.91	1.07	1.17	1.25	1.31	1.18	1.05	0.92	0.79	0.67	0.56	0.47	0.38
	1.5			1.45	1.69	1.86	1.99	2.07	1.87	1.66	1.46	1.25	1.07	0.89	0.74	0.60
	2.0			1.83	2.13	2.35	2.50	2.61	2.36	2.10	1.84	1.58	1.34	1.13	0.93	0.76
	2.5			2.65	3.09	3.40	3.63	3.78	3.42	3.04	2.66	2.29	1.95	1.63	1.35	1.10
	3.0			4.22	4.92	5.42	5.78	6.04	5.45	4.85	4.24	3.65	3.11	2.60	2.15	1.75
	3.5			5.54	6.47	7.12	7.60	7.93	7.16	6.37	5.57	4.80	4.08	3.42	2.83	2.30
	4.5			7.75	9.04	9.96	10.62	11.08	10.01	8.90	7.78	6.71	5.70	4.78	3.95	3.22
	4.75			10.20	11.91	13.11	13.98	14.60	13.19	11.73	10.25	8.84	7.51	6.30	5.20	4.24
	5			13.23	15.43	17.00	18.13	18.92	17.10	15.20	13.29	11.45	9.74	8.16	6.74	5.50
	6			19.27	22.49	24.77	26.41	27.58	24.91	22.15	19.37	16.69	14.19	11.89	9.83	8.01
	7			24.75	28.88	31.82	33.92	35.42	32.00	28.45	24.87	21.43	18.23	15.27	12.62	10.29
8			29.16	34.03	37.48	39.97	41.72	37.69	33.52	29.30	25.25	21.47	18.00	14.87	12.12	
10			34.14	39.83	43.88	46.79	48.84	44.13	39.23	34.30	29.56	25.14	21.07	17.40	14.19	
11			43.56	50.82	55.99	59.70	62.32	56.31	50.06	43.77	37.72	32.07	26.88	22.21	18.11	
+ 20	0.3			0.22	0.26	0.29	0.31	0.29	0.26	0.23	0.20	0.17	0.14	0.12	0.10	
	0.5			0.43	0.50	0.55	0.59	0.54	0.49	0.43	0.37	0.32	0.27	0.22	0.18	
	0.7			0.61	0.71	0.79	0.84	0.77	0.70	0.61	0.53	0.46	0.38	0.32	0.26	
	1.0			0.88	1.04	1.14	1.22	1.12	1.01	0.89	0.77	0.66	0.56	0.46	0.38	
	1.5			1.40	1.64	1.82	1.94	1.78	1.60	1.41	1.23	1.05	0.88	0.73	0.60	
	2.0			1.76	2.07	2.29	2.44	2.24	2.02	1.78	1.55	1.32	1.11	0.93	0.76	
	2.5			2.55	3.00	3.32	3.54	3.25	2.92	2.58	2.24	1.92	1.61	1.34	1.10	
	3.0			4.07	4.79	5.29	5.65	5.18	4.66	4.11	3.57	3.06	2.57	2.14	1.75	
	3.5			5.35	6.29	6.95	7.42	6.81	6.13	5.40	4.69	4.01	3.38	2.81	2.30	
	4.5			7.47	8.79	9.71	10.37	9.52	8.56	7.55	6.56	5.61	4.73	3.92	3.21	
	4.75			9.84	11.57	12.79	13.66	12.54	11.28	9.95	8.64	7.39	6.23	5.17	4.23	
	5			12.76	15.00	16.58	17.70	16.25	14.62	12.90	11.20	9.58	8.07	6.70	5.49	
	6			18.59	21.86	24.16	25.80	23.68	21.30	18.79	16.31	13.96	11.76	9.76	7.99	
	7			23.87	28.07	31.02	33.13	30.41	27.36	24.14	20.95	17.93	15.10	12.54	10.27	
8			28.13	33.07	36.55	39.03	35.83	32.23	28.43	24.69	21.12	17.79	14.77	12.09		
10			32.93	38.72	42.79	45.69	41.94	37.73	33.29	28.90	24.72	20.83	17.29	14.16		
11			42.02	49.40	54.59	58.31	53.52	48.14	42.47	36.87	31.55	26.58	22.06	18.07		

Capacities are based on 1 K subcooling and 1.5 bar pressure drop within the circuit.
For other conditions use the Honeywell valve calculation software.

Nominal capacity charts [kW]

for Expansion Valves

**Cooling-
Capacities**

Commercial refrigerants

Orifice size	Refrigerant						
	R22	R124	R134a	R227	R236fa	R401A	R402A
0.3	0.52	0.29	0.36	0.20	0.19	0.42	0.38
0.5	0.99	0.55	0.69	0.40	0.37	0.79	0.71
0.7 (AEL 0.5)	1.4	0.75	1.0	0.50	0.48	1.1	0.98
1.0 (AEL 1.0)	2.0	1.1	1.4	0.75	0.70	1.6	1.5
1.5	3.2	1.8	2.2	1.3	1.1	2.5	2.3
2.0 (AEL 2.0)	4.0	2.3	2.9	1.6	1.4	3.3	2.9
2.5	5.8	3.3	4.0	2.3	2.1	4.6	4.2
3.0 (AEL 3.0)	9.3	5.1	6.6	3.6	3.3	7.4	6.6
3.5 (AEL 4.0)	12.2	6.8	8.7	4.7	3.5	9.8	8.8
4.5	17.0	9.4	11.8	6.6	6.0	13.7	12.3
4.75 (AEL 5)	22.4	12.4	15.9	8.7	8.0	18.0	16.2
5 (AEL 6)	29.1	16.1	20.0	11.3	10.3	23.4	21.0
6	42.4	23.5	27.6	16.4	15.1	34.1	30.6
7	54.5	30.2	35.3	21.1	19.4	43.8	39.3
8	64.1	35.6	43.3	24.9	22.8	52.7	46.3
10	75.1	41.7	51.0	29.1	26.7	60.4	54.2
11	95.8	52.7	65.0	37.0	34.0	77.0	69.2

Capacities are based on following nominal conditions:

t ₀	+4 °C	+10 °C	+4 °C	+10 °C	+10 °C	+4 °C dew	+4 °C
t _c	+38 °C	+50 °C	+38 °C	+50 °C	+50 °C	+38 °C bubble	+38 °C
Δt _{c2u}	1 K	1 K	1 K	1 K	1 K	1 K	1 K

Commercial refrigerants

Orifice size	Refrigerant					
	R404A	R407A	R407B	R407C	R410A	R507
0.3	0.36	0.51	0.40	0.50	0.62	0.36
0.5	0.68	0.96	0.79	0.95	1.2	0.69
0.7 (AEL 0.5)	0.97	1.3	1.0	1.3	1.6	0.98
1.0 (AEL 1.0)	1.4	1.9	1.5	1.9	2.4	1.4
1.5	2.2	3.1	2.5	3.1	3.8	2.3
2.0 (AEL 2.0)	2.8	3.9	3.2	3.9	4.8	2.9
2.5	4.1	5.6	4.6	5.6	6.9	4.1
3.0 (AEL 3.0)	6.5	9.0	7.2	8.9	11.1	6.6
3.5 (AEL 4.0)	8.6	11.9	9.5	11.7	14.6	8.7
4.5	12.0	16.5	13.3	16.4	20.3	12.1
4.75 (AEL 5)	15.8	21.8	17.4	21.6	26.8	15.9
5 (AEL 6)	20.5	28.3	22.7	28.0	34.8	20.7
6	29.8	41.3	33.1	40.8	50.8	30.1
7	38.3	53.1	42.5	52.5	65.3	38.7
8	45.1	62.5	50.1	61.8	76.9	45.6
10	52.8	73.2	58.7	72.3	90.0	53.3
11	67.4	93.4	74.9	92.3	115	68.0

Capacities are based on following nominal conditions:

t ₀	+4 °C	+4 °C dew	+4 °C dew	+4 °C dew	+4 °C	+4 °C
t _c	+38 °C	+38 °C bubble	+38 °C bubble	+38 °C bubble	+38 °C	+38 °C
Δt _{c2u}	1 K	1 K	1 K	1 K	1 K	1 K

**Cooling-
Capacities**

Nominal capacity charts [kW]

for Expansion Valves

Deep freeze refrigerants

Orifice size	Refrigerant				
	R23	R410A	R508A	R508B	ISC89
0.3	0.55	0.58	0.38	0.38	0.17
0.5	1.1	1.1	0.71	0.71	0.35
0.7	1.5	1.5	1.0	1.0	0.45
1.0	2.2	2.2	1.4	1.4	0.65
1.5	3.5	3.5	2.3	2.3	1.1
2.0	4.5	4.4	2.9	2.9	1.4
2.5	6.4	6.4	4.2	4.2	1.9
3.0	10.2	10.2	6.7	6.7	3.1
3.5	13.4	13.5	8.8	8.8	4.0
4.5	18.6	18.7	12.2	12.2	5.6
4.75	24.5	24.7	16.1	16.1	7.4
5	31.9	32.1	20.9	20.9	9.6
6	46.5	46.8	30.5	30.5	14.0
7	59.7	60.1	39.2	39.2	18.0
8	70.4	70.8	46.2	46.2	21.2
10	82.3	82.9	54.1	54.1	24.8
11	105.8	106.0	69.7	69.6	32.2

**Cooling-
Capacities**

Capacities are based on following nominal conditions:

t_0	-70 °C	-40 °C	-70 °C	-70 °C	-40 °C
t_c	-30 °C	+25 °C	-30 °C	-30 °C	+25 °C
Δt_{c2u}	1 K	1 K	1 K	1 K	1 K

Honeywell GmbH
Cooling Solutions
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Fax Inquiry

Addresser

Company: _____
Contact Person: _____
Street: _____
ZIP / City: _____
Country: _____
Phone: _____
Fax: _____
E-Mail: _____

Details for the selection of Expansion Valves

We like to help you with the selection for an Expansion Valve suitable for your requirements.
For the selection we need the following details:

Refrigerant: _____

Evaporating temperature [°C]: _____

Condensing temperature [°C]: _____

Cooling capacity [kW]: _____

Subcooling [K]: _____

Pressure loss in system [bar]: _____

MOP: No
 Yes Value: _____

Type of valve: Automatic Expansion Valve
 Thermostatic Expansion Valve with: Gas charge
 Adsorber charge
 Liquid charge
 Any

Pressure equalisation: External
 Internal

Connection: Solder
 Flare
 O-ring

Type of construction: Two-way
 Angle

