

Correction Factor for Subcooling

The correction factors given here represent capacity changes caused by the degree of subcooling of high-pressure solution refrigerants on the low-stage side of two-stage compression devices, and heat exchanger-equipped equipment.

For devices with significant subcooling, the expansion valve capacity is calculated by multiplying the figure in the capacity table by the correction factor below.

R134a

Condensing Temp. (°C)	Subcooling ΔT							
	0	10	20	30	40	50	60	70
0	1.00	1.10	1.20	1.30	—	—	—	—
10	1.00	1.11	1.22	1.33	1.45	—	—	—
20	1.00	1.12	1.25	1.37	1.50	1.62	—	—
30	1.00	1.14	1.28	1.42	1.56	1.70	1.85	—
38	1.00	1.15	1.31	1.47	1.63	1.79	1.95	2.11
40	1.00	1.16	1.32	1.48	1.65	1.81	1.98	2.14
50	1.00	1.19	1.38	1.57	1.76	1.96	2.15	2.35
60	1.00	1.23	1.46	1.70	1.93	2.17	2.41	2.65

R404A

Condensing Temp. (°C)	Subcooling ΔT							
	0	10	20	30	40	50	60	70
0	1.00	1.13	1.26	1.39	—	—	—	—
10	1.00	1.15	1.29	1.44	1.59	—	—	—
20	1.00	1.17	1.34	1.51	1.69	1.86	—	—
30	1.00	1.20	1.41	1.62	1.82	2.03	2.24	—
38	1.00	1.24	1.49	1.73	1.98	2.23	2.48	2.73
40	1.00	1.26	1.51	1.77	2.03	2.29	2.55	2.82
50	1.00	1.35	1.70	2.04	2.39	2.74	3.09	3.45
60	1.00	1.56	2.11	2.65	3.19	3.74	4.28	4.84

R407C

Condensing Temp. (°C)	Subcooling ΔT							
	0	10	20	30	40	50	60	70
0	1.00	1.10	1.21	1.31	—	—	—	—
10	1.00	1.11	1.23	1.34	1.46	—	—	—
20	1.00	1.13	1.26	1.38	1.51	1.65	—	—
30	1.00	1.15	1.29	1.44	1.59	1.73	1.88	—
38	1.00	1.16	1.33	1.49	1.66	1.83	2.00	2.17
40	1.00	1.17	1.34	1.51	1.68	1.86	2.03	2.21
50	1.00	1.21	1.41	1.62	1.82	2.03	2.24	2.45
60	1.00	1.26	1.53	1.79	2.05	2.31	2.57	2.83

R410A

Condensing Temp. (°C)	Subcooling ΔT							
	0	10	20	30	40	50	60	70
0	1.00	1.11	1.21	1.32	—	—	—	—
10	1.00	1.12	1.24	1.36	1.48	—	—	—
20	1.00	1.14	1.27	1.41	1.54	1.68	—	—
30	1.00	1.16	1.32	1.47	1.63	1.79	1.94	—
38	1.00	1.18	1.36	1.54	1.72	1.90	2.08	2.27
40	1.00	1.19	1.38	1.57	1.75	1.94	2.13	2.32
50	1.00	1.25	1.48	1.72	1.95	2.18	2.42	2.65
60	1.00	1.36	1.70	2.02	2.34	2.66	2.98	3.29

R448A

Condensing Temp. (°C)	Subcooling ΔT							
	0	10	20	30	40	50	60	70
0	1.00	1.09	1.18	1.27	—	—	—	—
10	1.00	1.10	1.20	1.30	1.40	—	—	—
20	1.00	1.12	1.23	1.34	1.46	1.57	—	—
30	1.00	1.13	1.27	1.40	1.52	1.65	1.78	—
38	1.00	1.15	1.30	1.45	1.60	1.74	1.88	2.03
40	1.00	1.16	1.32	1.47	1.62	1.77	1.91	2.06
50	1.00	1.20	1.39	1.57	1.76	1.94	2.12	2.29
60	1.00	1.26	1.51	1.75	1.99	2.22	2.45	2.67

R449A

Condensing Temp. (°C)	Subcooling ΔT							
	0	10	20	30	40	50	60	70
0	1.00	1.09	1.18	1.28	—	—	—	—
10	1.00	1.10	1.21	1.31	1.41	—	—	—
20	1.00	1.12	1.23	1.35	1.46	1.57	—	—
30	1.00	1.14	1.27	1.40	1.53	1.66	1.79	—
38	1.00	1.16	1.31	1.46	1.60	1.75	1.89	2.04
40	1.00	1.16	1.32	1.47	1.63	1.78	1.93	2.07
50	1.00	1.20	1.39	1.58	1.77	1.95	2.13	2.31
60	1.00	1.27	1.52	1.77	2.01	2.25	2.48	2.71

R407H

Condensing Temp. (°C)	Subcooling ΔT							
	0	10	20	30	40	50	60	70
0	1.00	1.08	1.16	1.25	—	—	—	—
10	1.00	1.09	1.18	1.27	1.36	—	—	—
20	1.00	1.10	1.20	1.30	1.40	1.50	—	—
30	1.00	1.12	1.23	1.34	1.45	1.56	1.67	—
38	1.00	1.13	1.26	1.38	1.51	1.63	1.75	1.87
40	1.00	1.13	1.27	1.39	1.52	1.65	1.77	1.89
50	1.00	1.16	1.32	1.47	1.62	1.77	1.91	2.06
60	1.00	1.20	1.40	1.58	1.77	1.95	2.12	2.30

R463A-J

Condensing Temp. (°C)	Subcooling ΔT							
	0	10	20	30	40	50	60	70
0	1.00	1.09	1.18	1.27	—	—	—	—
10	1.00	1.10	1.20	1.30	1.40	—	—	—
20	1.00	1.12	1.23	1.34	1.45	1.56	—	—
30	1.00	1.13	1.26	1.39	1.52	1.64	1.77	—
38	1.00	1.15	1.30	1.45	1.59	1.73	1.87	2.01
40	1.00	1.16	1.32	1.47	1.62	1.76	1.91	2.05
50	1.00	1.20	1.40	1.58	1.76	1.94	2.12	2.29
60	1.00	1.29	1.55	1.79	2.03	2.27	2.50	2.72

Capacity Table for VKV

R32 < Type VKV >

Subcooling : 0°C / Superheat : 0°C

Catalog No.	Evaporating Temp. (°C)	Capacity (U.S.R.T.) (kW)					
		R32					
		Condensing Temp. (°C)					
		30	35	38	40	45	50
VKV-14DS VKV-14DS167	10	2.1 {7.4}	2.3 {8.1}	2.4 {8.4}	2.5 {8.6}	2.6 {9.0}	2.6 {9.3}
	5	2.3 {8.1}	2.5 {8.6}	2.5 {8.9}	2.6 {9.1}	2.7 {9.4}	2.7 {9.6}
	0	2.4 {8.6}	2.6 {9.1}	2.6 {9.3}	2.7 {9.4}	2.8 {9.7}	2.8 {9.8}
	-5	2.6 {9.0}	2.7 {9.4}	2.7 {9.6}	2.8 {9.7}	2.8 {9.9}	2.9 {10.0}
	-10	2.7 {9.4}	2.8 {9.7}	2.8 {9.9}	2.8 {10.0}	2.9 {10.1}	2.9 {10.2}
	-20	2.8 {9.8}	2.9 {10.1}	2.9 {10.2}	2.9 {10.3}	3.0 {10.4}	3.0 {10.4}
	-30	2.9 {10.1}	2.9 {10.3}	3.0 {10.4}	3.0 {10.5}	3.0 {10.5}	3.0 {10.5}
	-40	2.9 {10.2}	3.0 {10.4}	3.0 {10.5}	3.0 {10.5}	3.0 {10.5}	3.0 {10.4}
VKV-18DS VKV-18DS168	10	4.2 {14.8}	4.6 {16.2}	4.8 {16.8}	4.9 {17.2}	5.1 {18.0}	5.3 {18.5}
	5	4.6 {16.1}	4.9 {17.3}	5.1 {17.8}	5.2 {18.1}	5.3 {18.8}	5.4 {19.1}
	0	4.9 {17.2}	5.2 {18.1}	5.3 {18.6}	5.4 {18.9}	5.5 {19.4}	5.6 {19.7}
	-5	5.1 {18.0}	5.4 {18.9}	5.5 {19.3}	5.5 {19.5}	5.7 {19.9}	5.7 {20.1}
	-10	5.3 {18.7}	5.5 {19.4}	5.6 {19.8}	5.7 {20.0}	5.8 {20.3}	5.8 {20.4}
	-20	5.6 {19.7}	5.7 {20.2}	5.8 {20.5}	5.9 {20.6}	5.9 {20.8}	5.9 {20.8}
	-30	5.7 {20.2}	5.9 {20.6}	5.9 {20.8}	5.9 {20.9}	6.0 {21.0}	6.0 {20.9}
	-40	5.8 {20.4}	5.9 {20.8}	5.9 {20.9}	6.0 {21.0}	6.0 {21.0}	5.9 {20.8}
VKV-25DS VKV-25DS169	10	7.6 {26.7}	8.3 {29.1}	8.6 {30.3}	8.8 {31.0}	9.2 {32.4}	9.5 {33.3}
	5	8.3 {29.0}	8.8 {31.1}	9.1 {32.1}	9.3 {32.7}	9.6 {33.8}	9.8 {34.5}
	0	8.8 {30.9}	9.3 {32.7}	9.5 {33.5}	9.7 {34.0}	9.9 {34.9}	10.1 {35.4}
	-5	9.2 {32.5}	9.7 {33.9}	9.9 {34.7}	10 {35.1}	10.2 {35.8}	10.3 {36.2}
	-10	9.6 {33.7}	9.9 {35.0}	10.1 {35.6}	10.2 {35.9}	10.4 {36.5}	10.4 {36.7}
	-20	10.1 {35.4}	10.3 {36.4}	10.5 {36.8}	10.5 {37.1}	10.6 {37.4}	10.6 {37.4}
	-30	10.3 {36.4}	10.6 {37.2}	10.7 {37.5}	10.7 {37.6}	10.8 {37.8}	10.7 {37.7}
	-40	10.5 {36.8}	10.6 {37.4}	10.7 {37.6}	10.7 {37.7}	10.7 {37.8}	10.7 {37.5}
VKV-30DS VKV-30DS170	10	10.1 {35.6}	11.0 {38.8}	11.5 {40.4}	11.8 {41.4}	12.3 {43.2}	12.6 {44.4}
	5	11.0 {38.7}	11.8 {41.4}	12.2 {42.8}	12.4 {43.5}	12.8 {45.1}	13.1 {46.0}
	0	11.7 {41.3}	12.4 {43.6}	12.7 {44.7}	12.9 {45.3}	13.2 {46.5}	13.4 {47.2}
	-5	12.3 {43.3}	12.9 {45.3}	13.1 {46.2}	13.3 {46.8}	13.6 {47.8}	13.7 {48.2}
	-10	12.8 {44.9}	13.3 {46.6}	13.5 {47.4}	13.6 {47.9}	13.8 {48.7}	13.9 {49.0}
	-20	13.4 {47.2}	13.8 {48.5}	14.0 {49.1}	14.1 {49.4}	14.2 {49.9}	14.2 {49.9}
	-30	13.8 {48.5}	14.1 {49.5}	14.2 {50.0}	14.3 {50.2}	14.3 {50.4}	14.3 {50.2}
	-40	13.9 {49.1}	14.2 {49.9}	14.3 {50.2}	14.3 {50.3}	14.3 {50.4}	14.2 {50.0}
VKV-32DS VKV-32DS171	10	11.8 {41.5}	12.9 {45.3}	13.4 {47.2}	13.7 {48.3}	14.3 {50.4}	14.7 {51.8}
	5	12.8 {45.2}	13.7 {48.4}	14.2 {49.9}	14.4 {50.8}	14.9 {52.6}	15.2 {53.6}
	0	13.7 {48.1}	14.4 {50.8}	14.8 {52.1}	15.0 {52.9}	15.4 {54.3}	15.7 {55.1}
	-5	14.4 {50.5}	15.0 {52.8}	15.3 {53.9}	15.5 {54.6}	15.8 {55.7}	16.0 {56.2}
	-10	14.9 {52.4}	15.5 {54.4}	15.7 {55.4}	15.9 {55.9}	16.2 {56.8}	16.2 {57.1}
	-20	15.7 {55.1}	16.1 {56.6}	16.3 {57.3}	16.4 {57.7}	16.6 {58.2}	16.6 {58.2}
	-30	16.1 {56.6}	16.4 {57.8}	16.6 {58.3}	16.6 {58.6}	16.7 {58.8}	16.7 {58.6}
	-40	16.3 {57.2}	16.5 {58.2}	16.6 {58.6}	16.7 {58.7}	16.7 {58.8}	16.6 {58.4}
VKV-40DS	10	19.0 {66.7}	20.7 {72.8}	21.6 {75.8}	22.1 {77.6}	23.0 {81.0}	23.7 {83.3}
	5	20.6 {72.6}	22.1 {77.7}	22.8 {80.2}	23.2 {81.6}	24.0 {84.5}	24.5 {86.2}
	0	22.0 {77.3}	23.2 {81.7}	23.8 {83.8}	24.2 {85.0}	24.8 {87.3}	25.2 {88.5}
	-5	23.1 {81.2}	24.1 {84.9}	24.6 {86.7}	24.9 {87.7}	25.5 {89.5}	25.7 {90.4}
	-10	23.9 {84.2}	24.9 {87.4}	25.3 {89.0}	25.5 {89.8}	26.0 {91.3}	26.1 {91.8}
	-20	25.2 {88.5}	25.9 {91.0}	26.2 {92.1}	26.4 {92.7}	26.6 {93.6}	26.6 {93.6}
	-30	25.9 {91.0}	26.4 {92.9}	26.6 {93.7}	26.8 {94.1}	26.9 {94.6}	26.8 {94.2}
	-40	26.2 {92.0}	26.6 {93.5}	26.8 {94.1}	26.8 {94.4}	26.9 {94.5}	26.7 {93.8}
-50	26.1 {91.9}	26.5 {93.1}	26.6 {93.6}	26.6 {93.7}	26.6 {93.6}	26.3 {92.6}	

Capacity Table for VKV

R134a < Type VKV >

Subcooling : 0°C / Superheat : 0°C

Catalog No.	Evaporating Temp. (°C)	Capacity (U.S.R.T.) (kW)					
		R134a					
		Condensing Temp. (°C)					
		30	35	38	40	45	50
VKV-14DS VKV-14DS167	10	1.0 {3.4}	1.1 {3.7}	1.1 {3.9}	1.1 {4.0}	1.2 {4.2}	1.2 {4.3}
	5	1.0 {3.6}	1.1 {3.9}	1.1 {4.0}	1.2 {4.1}	1.2 {4.2}	1.2 {4.3}
	0	1.1 {3.8}	1.1 {4.0}	1.2 {4.1}	1.2 {4.2}	1.2 {4.3}	1.2 {4.4}
	-5	1.1 {3.9}	1.2 {4.1}	1.2 {4.2}	1.2 {4.2}	1.2 {4.3}	1.2 {4.4}
	-10	1.1 {4.0}	1.2 {4.2}	1.2 {4.2}	1.2 {4.3}	1.2 {4.3}	1.2 {4.3}
	-20	1.2 {4.1}	1.2 {4.2}	1.2 {4.2}	1.2 {4.2}	1.2 {4.3}	1.2 {4.2}
	-30	1.1 {4.0}	1.2 {4.1}	1.2 {4.1}	1.2 {4.1}	1.2 {4.1}	1.2 {4.1}
	-40	1.1 {3.9}	1.1 {4.0}	1.1 {4.0}	1.1 {4.0}	1.1 {4.0}	1.1 {3.9}
VKV-18DS VKV-18DS168	10	1.9 {6.8}	2.1 {7.5}	2.2 {7.8}	2.3 {7.9}	2.4 {8.3}	2.4 {8.6}
	5	2.1 {7.3}	2.2 {7.8}	2.3 {8.1}	2.3 {8.2}	2.4 {8.5}	2.5 {8.7}
	0	2.2 {7.6}	2.3 {8.1}	2.3 {8.3}	2.4 {8.4}	2.4 {8.6}	2.5 {8.7}
	-5	2.2 {7.9}	2.3 {8.2}	2.4 {8.4}	2.4 {8.5}	2.5 {8.6}	2.5 {8.7}
	-10	2.3 {8.0}	2.4 {8.3}	2.4 {8.4}	2.4 {8.5}	2.5 {8.6}	2.5 {8.7}
	-20	2.3 {8.1}	2.4 {8.3}	2.4 {8.4}	2.4 {8.5}	2.4 {8.5}	2.4 {8.5}
	-30	2.3 {8.1}	2.3 {8.2}	2.3 {8.3}	2.4 {8.3}	2.4 {8.3}	2.3 {8.2}
	-40	2.2 {7.9}	2.3 {8.0}	2.3 {8.0}	2.3 {8.0}	2.3 {7.9}	2.2 {7.8}
VKV-25DS VKV-25DS169	10	3.5 {12.3}	3.8 {13.4}	4.0 {14.0}	4.1 {14.3}	4.3 {15.0}	4.4 {15.4}
	5	3.7 {13.1}	4.0 {14.0}	4.1 {14.5}	4.2 {14.8}	4.3 {15.3}	4.4 {15.6}
	0	3.9 {13.7}	4.1 {14.5}	4.2 {14.9}	4.3 {15.1}	4.4 {15.5}	4.5 {15.7}
	-5	4.0 {14.2}	4.2 {14.8}	4.3 {15.1}	4.3 {15.2}	4.4 {15.6}	4.5 {15.7}
	-10	4.1 {14.4}	4.3 {15.0}	4.3 {15.2}	4.4 {15.3}	4.4 {15.6}	4.4 {15.6}
	-20	4.2 {14.7}	4.3 {15.0}	4.3 {15.2}	4.3 {15.2}	4.4 {15.3}	4.3 {15.3}
	-30	4.1 {14.5}	4.2 {14.8}	4.2 {14.9}	4.2 {14.9}	4.2 {14.9}	4.2 {14.7}
	-40	4.0 {14.2}	4.1 {14.4}	4.1 {14.4}	4.1 {14.4}	4.1 {14.3}	4.0 {14.1}
VKV-30DS VKV-30DS170	10	4.7 {16.4}	5.1 {17.9}	5.3 {18.6}	5.4 {19.1}	5.7 {19.9}	5.8 {20.5}
	5	5.0 {17.5}	5.3 {18.7}	5.5 {19.3}	5.6 {19.7}	5.8 {20.4}	5.9 {20.8}
	0	5.2 {18.3}	5.5 {19.3}	5.6 {19.8}	5.7 {20.1}	5.9 {20.6}	6.0 {20.9}
	-5	5.4 {18.9}	5.6 {19.7}	5.7 {20.1}	5.8 {20.3}	5.9 {20.7}	6.0 {20.9}
	-10	5.5 {19.2}	5.7 {19.9}	5.8 {20.3}	5.8 {20.4}	5.9 {20.7}	5.9 {20.8}
	-20	5.6 {19.5}	5.7 {20.0}	5.7 {20.2}	5.8 {20.3}	5.8 {20.4}	5.8 {20.4}
	-30	5.5 {19.4}	5.6 {19.7}	5.6 {19.8}	5.6 {19.9}	5.6 {19.9}	5.6 {19.7}
	-40	5.4 {19.0}	5.4 {19.1}	5.5 {19.2}	5.5 {19.2}	5.4 {19.1}	5.3 {18.8}
VKV-32DS VKV-32DS171	10	5.4 {19.1}	5.9 {20.9}	6.2 {21.7}	6.3 {22.2}	6.6 {23.3}	6.8 {24.0}
	5	5.8 {20.4}	6.2 {21.9}	6.4 {22.5}	6.5 {22.9}	6.8 {23.8}	6.9 {24.3}
	0	6.1 {21.4}	6.4 {22.5}	6.6 {23.1}	6.7 {23.4}	6.8 {24.1}	6.9 {24.4}
	-5	6.3 {22.0}	6.5 {23.0}	6.7 {23.5}	6.7 {23.7}	6.9 {24.2}	6.9 {24.4}
	-10	6.4 {22.5}	6.6 {23.3}	6.7 {23.6}	6.8 {23.8}	6.9 {24.2}	6.9 {24.3}
	-20	6.5 {22.8}	6.6 {23.4}	6.7 {23.6}	6.7 {23.7}	6.8 {23.8}	6.8 {23.8}
	-30	6.4 {22.6}	6.5 {23.0}	6.6 {23.1}	6.6 {23.2}	6.6 {23.2}	6.5 {22.9}
	-40	6.3 {22.1}	6.4 {22.3}	6.4 {22.4}	6.4 {22.4}	6.3 {22.2}	6.2 {21.9}
VKV-40DS	10	8.7 {30.7}	9.5 {33.5}	9.9 {34.9}	10.2 {35.7}	10.6 {37.4}	10.9 {38.5}
	5	9.3 {32.8}	10.0 {35.1}	10.3 {36.2}	10.5 {36.9}	10.9 {38.2}	11.1 {39.0}
	0	9.8 {34.3}	10.3 {36.2}	10.6 {37.1}	10.7 {37.7}	11.0 {38.7}	11.2 {39.2}
	-5	10.1 {35.4}	10.5 {37.0}	10.7 {37.7}	10.8 {38.1}	11.1 {38.9}	11.2 {39.2}
	-10	10.3 {36.1}	10.6 {37.4}	10.8 {38.0}	10.9 {38.3}	11.1 {38.9}	11.1 {39.1}
	-20	10.4 {36.6}	10.7 {37.5}	10.8 {37.9}	10.8 {38.1}	10.9 {38.3}	10.9 {38.2}
	-30	10.3 {36.4}	10.5 {37.0}	10.6 {37.2}	10.6 {37.2}	10.6 {37.2}	10.5 {36.9}
	-40	10.1 {35.5}	10.2 {35.9}	10.2 {36.0}	10.2 {36.0}	10.2 {35.7}	10.0 {35.2}
-50	9.8 {34.3}	9.8 {34.5}	9.8 {34.5}	9.8 {34.4}	9.7 {34.0}	9.5 {33.3}	

Capacity Table for VKV

R404A < Type VKV >

Subcooling : 0°C / Superheat : 0°C

Catalog No.	Evaporating Temp. (°C)	Capacity (U.S.R.T.) (kW)					
		R404A					
		Condensing Temp. (°C)					
		30	35	38	40	45	50
VKV-14DS VKV-14DS167	10	0.9 {3.2}	1.0 {3.4}	1.0 {3.5}	1.0 {3.5}	1.0 {3.6}	1.0 {3.5}
	5	1.0 {3.4}	1.0 {3.6}	1.0 {3.6}	1.0 {3.6}	1.0 {3.6}	1.0 {3.5}
	0	1.0 {3.6}	1.1 {3.7}	1.1 {3.7}	1.1 {3.7}	1.0 {3.7}	1.0 {3.6}
	-5	1.1 {3.7}	1.1 {3.8}	1.1 {3.8}	1.1 {3.8}	1.0 {3.7}	1.0 {3.5}
	-10	1.1 {3.8}	1.1 {3.8}	1.1 {3.8}	1.1 {3.8}	1.0 {3.7}	1.0 {3.5}
	-20	1.1 {3.8}	1.1 {3.8}	1.1 {3.8}	1.1 {3.7}	1.0 {3.6}	1.0 {3.4}
	-30	1.1 {3.8}	1.1 {3.8}	1.0 {3.7}	1.0 {3.6}	1.0 {3.5}	0.9 {3.2}
	-40	1.0 {3.7}	1.0 {3.6}	1.0 {3.5}	1.0 {3.5}	0.9 {3.3}	0.9 {3.0}
VKV-18DS VKV-18DS168	10	1.8 {6.4}	1.9 {6.8}	2.0 {7.0}	2.0 {7.0}	2.0 {7.1}	2.0 {7.0}
	5	1.9 {6.9}	2.0 {7.2}	2.1 {7.3}	2.1 {7.3}	2.1 {7.3}	2.0 {7.1}
	0	2.0 {7.2}	2.1 {7.4}	2.1 {7.4}	2.1 {7.4}	2.1 {7.4}	2.0 {7.1}
	-5	2.1 {7.4}	2.1 {7.6}	2.2 {7.6}	2.1 {7.5}	2.1 {7.4}	2.0 {7.1}
	-10	2.2 {7.6}	2.2 {7.6}	2.2 {7.6}	2.1 {7.6}	2.1 {7.4}	2.0 {7.0}
	-20	2.2 {7.7}	2.2 {7.7}	2.2 {7.6}	2.1 {7.5}	2.0 {7.2}	1.9 {6.8}
	-30	2.2 {7.6}	2.1 {7.5}	2.1 {7.4}	2.1 {7.3}	2.0 {6.9}	1.8 {6.5}
	-40	2.1 {7.4}	2.1 {7.2}	2.0 {7.1}	2.0 {6.9}	1.9 {6.5}	1.7 {6.0}
VKV-25DS VKV-25DS169	10	3.3 {11.5}	3.5 {12.3}	3.6 {12.6}	3.6 {12.7}	3.6 {12.8}	3.6 {12.6}
	5	3.5 {12.3}	3.7 {12.9}	3.7 {13.1}	3.7 {13.1}	3.7 {13.1}	3.6 {12.7}
	0	3.7 {12.9}	3.8 {13.3}	3.8 {13.4}	3.8 {13.4}	3.8 {13.2}	3.6 {12.8}
	-5	3.8 {13.3}	3.9 {13.6}	3.9 {13.6}	3.8 {13.5}	3.8 {13.3}	3.6 {12.8}
	-10	3.9 {13.6}	3.9 {13.8}	3.9 {13.7}	3.9 {13.6}	3.8 {13.3}	3.6 {12.6}
	-20	3.9 {13.8}	3.9 {13.8}	3.9 {13.6}	3.8 {13.5}	3.7 {13.0}	3.5 {12.2}
	-30	3.9 {13.7}	3.8 {13.5}	3.8 {13.3}	3.7 {13.1}	3.5 {12.5}	3.3 {11.6}
	-40	3.8 {13.3}	3.7 {13.0}	3.6 {12.7}	3.5 {12.5}	3.4 {11.8}	3.1 {10.9}
VKV-30DS VKV-30DS170	10	4.4 {15.4}	4.7 {16.4}	4.8 {16.8}	4.8 {16.9}	4.9 {17.1}	4.8 {16.8}
	5	4.7 {16.5}	4.9 {17.2}	5.0 {17.4}	5.0 {17.5}	5.0 {17.4}	4.8 {17.0}
	0	4.9 {17.2}	5.1 {17.8}	5.1 {17.9}	5.1 {17.8}	5.0 {17.6}	4.9 {17.1}
	-5	5.1 {17.8}	5.2 {18.1}	5.2 {18.1}	5.1 {18.0}	5.0 {17.7}	4.8 {17.0}
	-10	5.2 {18.2}	5.2 {18.3}	5.2 {18.3}	5.2 {18.1}	5.0 {17.7}	4.8 {16.9}
	-20	5.2 {18.4}	5.2 {18.4}	5.2 {18.2}	5.1 {17.9}	4.9 {17.3}	4.6 {16.3}
	-30	5.2 {18.2}	5.1 {18.0}	5.0 {17.7}	4.9 {17.4}	4.7 {16.6}	4.4 {15.5}
	-40	5.0 {17.7}	4.9 {17.4}	4.8 {17.0}	4.7 {16.6}	4.5 {15.7}	4.1 {14.5}
VKV-32DS VKV-32DS171	10	5.1 {17.9}	5.4 {19.1}	5.6 {19.6}	5.6 {19.7}	5.7 {19.9}	5.6 {19.6}
	5	5.5 {19.2}	5.7 {20.1}	5.8 {20.3}	5.8 {20.4}	5.8 {20.3}	5.6 {19.8}
	0	5.7 {20.1}	5.9 {20.7}	5.9 {20.9}	5.9 {20.8}	5.9 {20.6}	5.7 {19.9}
	-5	5.9 {20.8}	6.0 {21.2}	6.0 {21.2}	6.0 {21.1}	5.9 {20.7}	5.6 {19.8}
	-10	6.0 {21.2}	6.1 {21.4}	6.1 {21.3}	6.0 {21.1}	5.9 {20.6}	5.6 {19.7}
	-20	6.1 {21.5}	6.1 {21.4}	6.0 {21.2}	6.0 {20.9}	5.7 {20.2}	5.4 {19.0}
	-30	6.0 {21.3}	6.0 {21.0}	5.9 {20.7}	5.8 {20.3}	5.5 {19.4}	5.1 {18.1}
	-40	5.9 {20.7}	5.8 {20.3}	5.6 {19.8}	5.5 {19.4}	5.2 {18.3}	4.8 {16.9}
VKV-40DS	10	8.2 {28.8}	8.7 {30.8}	8.9 {31.4}	9.0 {31.7}	9.1 {32.0}	9.0 {31.5}
	5	8.8 {30.8}	9.2 {32.3}	9.3 {32.7}	9.3 {32.7}	9.3 {32.7}	9.1 {31.9}
	0	9.2 {32.3}	9.5 {33.3}	9.5 {33.5}	9.5 {33.4}	9.4 {33.1}	9.1 {32.0}
	-5	9.5 {33.4}	9.7 {34.0}	9.7 {34.0}	9.6 {33.8}	9.4 {33.2}	9.1 {31.9}
	-10	9.7 {34.0}	9.8 {34.4}	9.7 {34.3}	9.7 {34.0}	9.4 {33.1}	9.0 {31.6}
	-20	9.8 {34.5}	9.8 {34.5}	9.7 {34.1}	9.6 {33.6}	9.2 {32.4}	8.7 {30.6}
	-30	9.7 {34.2}	9.6 {33.8}	9.4 {33.2}	9.3 {32.6}	8.9 {31.2}	8.3 {29.0}
	-40	9.4 {33.2}	9.3 {32.6}	9.1 {31.8}	8.9 {31.2}	8.4 {29.5}	7.7 {27.2}
-50	9.0 {31.8}	8.8 {31.0}	8.6 {30.1}	8.4 {29.4}	7.8 {27.5}	7.1 {25.0}	

Capacity Table for VKV

R410A <Type VKV>

Subcooling : 0°C / Superheat : 0°C

Catalog No.	Evaporating Temp. (°C)	Capacity (U.S.R.T.) (kW)					
		R410A					
		Condensing Temp. (°C)					
		30	35	38	40	45	50
VKV-14DS VKV-14DS167	10	1.5 {5.2}	1.6 {5.6}	1.6 {5.8}	1.7 {5.8}	1.7 {6.0}	1.7 {6.0}
	5	1.6 {5.6}	1.7 {5.9}	1.7 {6.1}	1.7 {6.1}	1.8 {6.2}	1.8 {6.2}
	0	1.7 {5.9}	1.8 {6.2}	1.8 {6.3}	1.8 {6.3}	1.8 {6.4}	1.8 {6.3}
	-5	1.8 {6.2}	1.8 {6.4}	1.8 {6.5}	1.8 {6.5}	1.9 {6.5}	1.8 {6.4}
	-10	1.8 {6.4}	1.9 {6.6}	1.9 {6.6}	1.9 {6.6}	1.9 {6.6}	1.8 {6.5}
	-20	1.9 {6.7}	1.9 {6.7}	1.9 {6.7}	1.9 {6.7}	1.9 {6.7}	1.8 {6.5}
	-30	1.9 {6.8}	1.9 {6.8}	1.9 {6.8}	1.9 {6.7}	1.9 {6.6}	1.8 {6.4}
	-40	1.9 {6.7}	1.9 {6.7}	1.9 {6.7}	1.9 {6.7}	1.9 {6.5}	1.8 {6.3}
VKV-18DS VKV-18DS168	10	2.9 {10.4}	3.2 {11.2}	3.3 {11.5}	3.3 {11.7}	3.4 {12.0}	3.4 {12.1}
	5	3.2 {11.2}	3.4 {11.8}	3.4 {12.1}	3.5 {12.2}	3.5 {12.4}	3.5 {12.4}
	0	3.4 {11.9}	3.5 {12.4}	3.6 {12.6}	3.6 {12.7}	3.6 {12.8}	3.6 {12.7}
	-5	3.5 {12.4}	3.6 {12.8}	3.7 {12.9}	3.7 {13.0}	3.7 {13.0}	3.7 {12.8}
	-10	3.6 {12.8}	3.7 {13.1}	3.8 {13.2}	3.8 {13.2}	3.7 {13.2}	3.7 {12.9}
	-20	3.8 {13.3}	3.8 {13.5}	3.8 {13.5}	3.8 {13.5}	3.8 {13.3}	3.7 {13.0}
	-30	3.8 {13.5}	3.9 {13.6}	3.9 {13.5}	3.8 {13.5}	3.8 {13.3}	3.7 {12.9}
	-40	3.8 {13.5}	3.8 {13.5}	3.8 {13.4}	3.8 {13.3}	3.7 {13.0}	3.6 {12.6}
VKV-25DS VKV-25DS169	10	5.3 {18.6}	5.7 {20.1}	5.9 {20.7}	6.0 {21.1}	6.1 {21.6}	6.2 {21.7}
	5	5.7 {20.2}	6.1 {21.3}	6.2 {21.8}	6.3 {22.0}	6.4 {22.4}	6.4 {22.3}
	0	6.1 {21.4}	6.3 {22.3}	6.4 {22.6}	6.5 {22.8}	6.5 {23.0}	6.5 {22.8}
	-5	6.3 {22.3}	6.5 {23.0}	6.6 {23.3}	6.7 {23.4}	6.7 {23.4}	6.6 {23.1}
	-10	6.6 {23.1}	6.7 {23.6}	6.8 {23.8}	6.8 {23.8}	6.7 {23.7}	6.6 {23.3}
	-20	6.8 {24.0}	6.9 {24.3}	6.9 {24.3}	6.9 {24.3}	6.8 {24.0}	6.7 {23.4}
	-30	6.9 {24.3}	6.9 {24.4}	6.9 {24.4}	6.9 {24.3}	6.8 {23.9}	6.6 {23.1}
	-40	6.9 {24.3}	6.9 {24.3}	6.9 {24.1}	6.8 {24.0}	6.7 {23.5}	6.4 {22.6}
VKV-30DS VKV-30DS170	10	7.1 {24.8}	7.6 {26.8}	7.9 {27.6}	8.0 {28.1}	8.2 {28.8}	8.2 {29.0}
	5	7.7 {26.9}	8.1 {28.4}	8.3 {29.1}	8.4 {29.4}	8.5 {29.9}	8.5 {29.8}
	0	8.1 {28.5}	8.4 {29.7}	8.6 {30.2}	8.6 {30.4}	8.7 {30.7}	8.6 {30.4}
	-5	8.5 {29.8}	8.7 {30.7}	8.8 {31.0}	8.9 {31.2}	8.9 {31.2}	8.8 {30.8}
	-10	8.7 {30.7}	8.9 {31.4}	9.0 {31.7}	9.0 {31.8}	9.0 {31.7}	8.8 {31.1}
	-20	9.1 {32.0}	9.2 {32.3}	9.2 {32.4}	9.2 {32.4}	9.1 {32.0}	8.9 {31.2}
	-30	9.2 {32.4}	9.3 {32.6}	9.2 {32.5}	9.2 {32.4}	9.1 {31.8}	8.8 {30.9}
	-40	9.2 {32.4}	9.2 {32.4}	9.2 {32.2}	9.1 {32.0}	8.9 {31.3}	8.6 {30.2}
VKV-32DS VKV-32DS171	10	8.2 {29.0}	8.9 {31.2}	9.2 {32.2}	9.3 {32.8}	9.6 {33.6}	9.6 {33.8}
	5	8.9 {31.4}	9.4 {33.1}	9.6 {33.9}	9.7 {34.3}	9.9 {34.8}	9.9 {34.7}
	0	9.5 {33.3}	9.9 {34.7}	10.0 {35.2}	10.1 {35.5}	10.2 {35.8}	10.1 {35.5}
	-5	9.9 {34.7}	10.2 {35.8}	10.3 {36.2}	10.3 {36.4}	10.4 {36.5}	10.2 {35.9}
	-10	10.2 {35.9}	10.4 {36.7}	10.5 {37.0}	10.5 {37.1}	10.5 {36.9}	10.3 {36.3}
	-20	10.6 {37.3}	10.7 {37.7}	10.7 {37.8}	10.7 {37.8}	10.6 {37.3}	10.3 {36.4}
	-30	10.8 {37.8}	10.8 {38.0}	10.8 {37.9}	10.7 {37.8}	10.6 {37.1}	10.2 {36.0}
	-40	10.7 {37.8}	10.7 {37.8}	10.7 {37.6}	10.6 {37.3}	10.4 {36.5}	10.0 {35.2}
VKV-40DS	10	13.2 {46.6}	14.3 {50.2}	14.7 {51.8}	15.0 {52.6}	15.4 {54.0}	15.4 {54.3}
	5	14.3 {50.5}	15.1 {53.3}	15.5 {54.5}	15.7 {55.1}	15.9 {56.0}	15.9 {55.8}
	0	15.2 {53.5}	15.8 {55.7}	16.1 {56.6}	16.2 {57.0}	16.3 {57.5}	16.2 {57.0}
	-5	15.9 {55.8}	16.4 {57.6}	16.6 {58.2}	16.6 {58.5}	16.7 {58.6}	16.4 {57.8}
	-10	16.4 {57.6}	16.8 {59.0}	16.9 {59.4}	16.9 {59.5}	16.9 {59.3}	16.6 {58.3}
	-20	17.0 {59.9}	17.2 {60.6}	17.3 {60.7}	17.3 {60.7}	17.1 {60.0}	16.6 {58.5}
	-30	17.3 {60.8}	17.4 {61.1}	17.3 {61.0}	17.3 {60.7}	17.0 {59.7}	16.5 {57.9}
	-40	17.3 {60.7}	17.3 {60.7}	17.2 {60.4}	17.1 {60.0}	16.7 {58.7}	16.1 {56.6}

Capacity Table for VKV

R448A <Type VKV>

Subcooling : 0°C / Superheat : 0°C

Catalog No.	Evaporating Temp. (°C)	Capacity (U.S.R.T.) (kW)					
		R448A					
		Condensing Temp. (°C)					
		30	35	38	40	45	50
VKV-14DS VKV-14DS167	10	1.3 {4.6}	1.4 {5.0}	1.4 {5.0}	1.4 {5.1}	1.5 {5.2}	1.5 {5.2}
	5	1.4 {5.0}	1.5 {5.3}	1.5 {5.3}	1.5 {5.3}	1.5 {5.4}	1.5 {5.3}
	0	1.4 {5.1}	1.5 {5.3}	1.5 {5.3}	1.5 {5.3}	1.5 {5.3}	1.5 {5.3}
	-5	1.5 {5.4}	1.6 {5.5}	1.6 {5.5}	1.6 {5.5}	1.6 {5.5}	1.5 {5.4}
	-10	1.5 {5.3}	1.5 {5.4}	1.5 {5.4}	1.5 {5.4}	1.5 {5.4}	1.5 {5.3}
	-20	1.5 {5.4}	1.5 {5.4}	1.5 {5.4}	1.5 {5.4}	1.5 {5.3}	1.5 {5.2}
	-30	1.5 {5.3}	1.5 {5.4}	1.5 {5.3}	1.5 {5.3}	1.5 {5.2}	1.4 {5.0}
	-40	1.5 {5.2}	1.5 {5.2}	1.5 {5.2}	1.5 {5.1}	1.4 {5.0}	1.4 {4.8}
VKV-18DS VKV-18DS168	10	2.6 {9.3}	2.8 {9.9}	2.8 {10.0}	2.9 {10.1}	2.9 {10.4}	2.9 {10.4}
	5	2.9 {10.0}	3.0 {10.5}	3.0 {10.6}	3.0 {10.6}	3.1 {10.8}	3.0 {10.7}
	0	2.9 {10.1}	3.0 {10.5}	3.0 {10.6}	3.0 {10.6}	3.0 {10.7}	3.0 {10.6}
	-5	3.1 {10.7}	3.1 {11.0}	3.1 {11.0}	3.1 {11.0}	3.1 {11.0}	3.1 {10.8}
	-10	3.0 {10.6}	3.1 {10.8}	3.1 {10.8}	3.1 {10.8}	3.0 {10.7}	3.0 {10.5}
	-20	3.0 {10.7}	3.1 {10.9}	3.1 {10.8}	3.1 {10.8}	3.0 {10.6}	2.9 {10.3}
	-30	3.0 {10.6}	3.0 {10.7}	3.0 {10.6}	3.0 {10.6}	2.9 {10.3}	2.9 {10.0}
	-40	3.0 {10.4}	3.0 {10.4}	2.9 {10.3}	2.9 {10.2}	2.8 {9.9}	2.7 {9.6}
VKV-25DS VKV-25DS169	10	4.7 {16.7}	5.1 {17.9}	5.1 {18.0}	5.2 {18.2}	5.3 {18.6}	5.3 {18.6}
	5	5.1 {18.0}	5.4 {18.9}	5.4 {19.0}	5.4 {19.2}	5.5 {19.4}	5.5 {19.2}
	0	5.2 {18.2}	5.4 {19.0}	5.4 {19.0}	5.4 {19.1}	5.5 {19.2}	5.4 {19.0}
	-5	5.5 {19.3}	5.7 {19.9}	5.6 {19.8}	5.7 {19.9}	5.6 {19.8}	5.6 {19.5}
	-10	5.4 {19.0}	5.5 {19.5}	5.5 {19.4}	5.5 {19.4}	5.5 {19.3}	5.4 {19.0}
	-20	5.5 {19.3}	5.6 {19.5}	5.5 {19.4}	5.5 {19.4}	5.4 {19.1}	5.3 {18.6}
	-30	5.4 {19.2}	5.5 {19.3}	5.4 {19.1}	5.4 {19.0}	5.3 {18.6}	5.1 {18.1}
	-40	5.3 {18.8}	5.3 {18.8}	5.3 {18.5}	5.2 {18.4}	5.1 {17.9}	4.9 {17.3}
VKV-30DS VKV-30DS170	10	6.3 {22.2}	6.8 {23.8}	6.8 {24.0}	6.9 {24.3}	7.1 {24.8}	7.1 {24.8}
	5	6.8 {24.1}	7.2 {25.3}	7.2 {25.3}	7.3 {25.5}	7.3 {25.8}	7.3 {25.6}
	0	6.9 {24.3}	7.2 {25.3}	7.2 {25.3}	7.2 {25.5}	7.3 {25.6}	7.2 {25.3}
	-5	7.3 {25.8}	7.5 {26.5}	7.5 {26.4}	7.5 {26.5}	7.5 {26.4}	7.4 {26.0}
	-10	7.2 {25.3}	7.4 {26.0}	7.4 {25.9}	7.4 {25.9}	7.3 {25.7}	7.2 {25.3}
	-20	7.3 {25.7}	7.4 {26.0}	7.4 {25.9}	7.3 {25.8}	7.2 {25.4}	7.1 {24.8}
	-30	7.3 {25.5}	7.3 {25.7}	7.2 {25.4}	7.2 {25.3}	7.0 {24.8}	6.8 {24.1}
	-40	7.1 {25.0}	7.1 {25.0}	7.0 {24.7}	7.0 {24.6}	6.8 {23.9}	6.6 {23.1}
VKV-32DS VKV-32DS171	10	7.4 {25.9}	7.9 {27.8}	8.0 {28.0}	8.1 {28.4}	8.2 {29.0}	8.2 {29.0}
	5	8.0 {28.1}	8.4 {29.5}	8.4 {29.6}	8.5 {29.8}	8.6 {30.1}	8.5 {29.9}
	0	8.1 {28.3}	8.4 {29.5}	8.4 {29.5}	8.4 {29.7}	8.5 {29.9}	8.4 {29.6}
	-5	8.6 {30.1}	8.8 {30.9}	8.8 {30.9}	8.8 {30.9}	8.8 {30.8}	8.6 {30.4}
	-10	8.4 {29.6}	8.6 {30.3}	8.6 {30.2}	8.6 {30.2}	8.5 {30.0}	8.4 {29.5}
	-20	8.5 {30.0}	8.6 {30.4}	8.6 {30.2}	8.6 {30.1}	8.4 {29.7}	8.2 {29.0}
	-30	8.5 {29.8}	8.5 {30.0}	8.4 {29.7}	8.4 {29.5}	8.2 {28.9}	8.0 {28.1}
	-40	8.3 {29.2}	8.3 {29.2}	8.2 {28.8}	8.1 {28.7}	7.9 {27.8}	7.7 {26.9}
VKV-40DS	10	11.8 {41.7}	12.7 {44.7}	12.8 {45.0}	13.0 {45.6}	13.2 {46.6}	13.2 {46.6}
	5	12.8 {45.1}	13.5 {47.4}	13.5 {47.5}	13.6 {47.9}	13.8 {48.4}	13.7 {48.1}
	0	12.9 {45.5}	13.5 {47.4}	13.5 {47.5}	13.6 {47.7}	13.6 {48.0}	13.5 {47.5}
	-5	13.8 {48.4}	14.1 {49.7}	14.1 {49.6}	14.1 {49.7}	14.1 {49.5}	13.9 {48.8}
	-10	13.5 {47.5}	13.8 {48.7}	13.8 {48.5}	13.8 {48.6}	13.7 {48.2}	13.5 {47.4}
	-20	13.7 {48.2}	13.9 {48.8}	13.8 {48.5}	13.8 {48.4}	13.5 {47.7}	13.2 {46.6}
	-30	13.6 {47.9}	13.7 {48.2}	13.6 {47.7}	13.5 {47.5}	13.2 {46.4}	12.8 {45.1}
	-40	13.4 {47.0}	13.3 {46.9}	13.2 {46.4}	13.1 {46.0}	12.7 {44.7}	12.3 {43.3}

Capacity Table for VKV

R449A < Type VKV >

Subcooling : 0°C / Superheat : 0°C

Catalog No.	Evaporating Temp. (°C)	Capacity (U.S.R.T.) (kW)					
		R449A					
		Condensing Temp. (°C)					
		30	35	38	40	45	50
VKV-14DS VKV-14DS167	10	1.3 {4.6}	1.4 {4.8}	1.4 {4.9}	1.4 {5.0}	1.4 {5.1}	1.4 {5.1}
	5	1.4 {4.8}	1.4 {5.0}	1.4 {5.1}	1.5 {5.1}	1.5 {5.2}	1.5 {5.2}
	0	1.4 {5.0}	1.5 {5.1}	1.5 {5.2}	1.5 {5.2}	1.5 {5.2}	1.5 {5.2}
	-5	1.5 {5.1}	1.5 {5.2}	1.5 {5.3}	1.5 {5.3}	1.5 {5.3}	1.5 {5.2}
	-10	1.5 {5.2}	1.5 {5.3}	1.5 {5.3}	1.5 {5.3}	1.5 {5.3}	1.5 {5.2}
	-20	1.5 {5.3}	1.5 {5.3}	1.5 {5.3}	1.5 {5.3}	1.5 {5.2}	1.4 {5.1}
	-30	1.5 {5.2}	1.5 {5.2}	1.5 {5.2}	1.5 {5.2}	1.4 {5.1}	1.4 {4.9}
	-40	1.5 {5.1}	1.5 {5.1}	1.4 {5.1}	1.4 {5.0}	1.4 {4.9}	1.3 {4.7}
VKV-18DS VKV-18DS168	10	2.6 {9.1}	2.7 {9.6}	2.8 {9.8}	2.8 {10.0}	2.9 {10.1}	2.9 {10.2}
	5	2.7 {9.6}	2.8 {10.0}	2.9 {10.2}	2.9 {10.2}	2.9 {10.3}	2.9 {10.3}
	0	2.8 {10.0}	2.9 {10.3}	3.0 {10.4}	3.0 {10.4}	3.0 {10.5}	2.9 {10.4}
	-5	2.9 {10.2}	3.0 {10.5}	3.0 {10.5}	3.0 {10.6}	3.0 {10.5}	3.0 {10.4}
	-10	3.0 {10.4}	3.0 {10.6}	3.0 {10.6}	3.0 {10.6}	3.0 {10.5}	2.9 {10.3}
	-20	3.0 {10.5}	3.0 {10.6}	3.0 {10.6}	3.0 {10.6}	3.0 {10.4}	2.9 {10.2}
	-30	3.0 {10.5}	3.0 {10.5}	3.0 {10.4}	2.9 {10.4}	2.9 {10.2}	2.8 {9.8}
	-40	2.9 {10.3}	2.9 {10.2}	2.9 {10.1}	2.9 {10.0}	2.8 {9.8}	2.7 {9.4}
VKV-25DS VKV-25DS169	10	4.7 {16.4}	4.9 {17.3}	5.0 {17.7}	5.1 {17.9}	5.2 {18.3}	5.2 {18.3}
	5	4.9 {17.3}	5.1 {18.0}	5.2 {18.3}	5.2 {18.4}	5.3 {18.6}	5.3 {18.6}
	0	5.1 {17.9}	5.3 {18.5}	5.3 {18.7}	5.3 {18.8}	5.4 {18.9}	5.3 {18.7}
	-5	5.2 {18.4}	5.4 {18.8}	5.4 {19.0}	5.4 {19.0}	5.4 {19.0}	5.3 {18.7}
	-10	5.3 {18.7}	5.4 {19.0}	5.4 {19.1}	5.4 {19.1}	5.4 {19.0}	5.3 {18.6}
	-20	5.4 {19.0}	5.4 {19.1}	5.4 {19.1}	5.4 {19.0}	5.3 {18.8}	5.2 {18.3}
	-30	5.4 {18.9}	5.4 {18.9}	5.3 {18.8}	5.3 {18.7}	5.2 {18.3}	5.0 {17.7}
	-40	5.3 {18.5}	5.2 {18.4}	5.2 {18.2}	5.1 {18.1}	5.0 {17.6}	4.8 {16.9}
VKV-30DS VKV-30DS170	10	6.2 {21.9}	6.6 {23.1}	6.7 {23.6}	6.8 {23.9}	6.9 {24.3}	6.9 {24.4}
	5	6.6 {23.1}	6.8 {24.0}	6.9 {24.4}	7.0 {24.6}	7.1 {24.8}	7.0 {24.7}
	0	6.8 {23.9}	7.0 {24.7}	7.1 {24.9}	7.1 {25.0}	7.1 {25.1}	7.1 {24.9}
	-5	7.0 {24.5}	7.1 {25.1}	7.2 {25.3}	7.2 {25.3}	7.2 {25.3}	7.1 {24.9}
	-10	7.1 {24.9}	7.2 {25.4}	7.2 {25.5}	7.2 {25.5}	7.2 {25.3}	7.1 {24.8}
	-20	7.2 {25.3}	7.2 {25.5}	7.2 {25.4}	7.2 {25.4}	7.1 {25.0}	6.9 {24.4}
	-30	7.1 {25.1}	7.1 {25.1}	7.1 {25.0}	7.1 {24.9}	6.9 {24.4}	6.7 {23.6}
	-40	7.0 {24.6}	7.0 {24.5}	6.9 {24.3}	6.9 {24.1}	6.7 {23.5}	6.4 {22.6}
VKV-32DS VKV-32DS171	10	7.3 {25.5}	7.7 {27.0}	7.8 {27.6}	7.9 {27.9}	8.1 {28.4}	8.1 {28.5}
	5	7.6 {26.9}	8.0 {28.0}	8.1 {28.5}	8.2 {28.7}	8.2 {29.0}	8.2 {28.9}
	0	7.9 {27.9}	8.2 {28.8}	8.3 {29.1}	8.3 {29.2}	8.3 {29.3}	8.3 {29.0}
	-5	8.1 {28.6}	8.3 {29.3}	8.4 {29.5}	8.4 {29.6}	8.4 {29.5}	8.3 {29.1}
	-10	8.3 {29.1}	8.4 {29.6}	8.4 {29.7}	8.4 {29.7}	8.4 {29.5}	8.2 {29.0}
	-20	8.4 {29.5}	8.4 {29.7}	8.4 {29.7}	8.4 {29.6}	8.3 {29.2}	8.1 {28.4}
	-30	8.3 {29.3}	8.3 {29.3}	8.3 {29.2}	8.3 {29.0}	8.1 {28.4}	7.8 {27.5}
	-40	8.2 {28.7}	8.1 {28.6}	8.1 {28.3}	8.0 {28.1}	7.8 {27.4}	7.5 {26.4}
VKV-40DS	10	11.7 {41.0}	12.3 {43.3}	12.6 {44.3}	12.7 {44.8}	13.0 {45.7}	13.0 {45.8}
	5	12.3 {43.2}	12.8 {45.0}	13.0 {45.8}	13.1 {46.1}	13.2 {46.6}	13.2 {46.4}
	0	12.8 {44.8}	13.1 {46.2}	13.3 {46.7}	13.4 {47.0}	13.4 {47.1}	13.3 {46.7}
	-5	13.1 {46.0}	13.4 {47.1}	13.5 {47.4}	13.5 {47.5}	13.5 {47.4}	13.3 {46.8}
	-10	13.3 {46.8}	13.5 {47.5}	13.6 {47.7}	13.6 {47.8}	13.5 {47.4}	13.2 {46.6}
	-20	13.5 {47.4}	13.6 {47.8}	13.6 {47.7}	13.5 {47.6}	13.3 {46.9}	13.0 {45.7}
	-30	13.4 {47.1}	13.4 {47.1}	13.3 {46.9}	13.3 {46.6}	13.0 {45.7}	12.6 {44.2}
	-40	13.1 {46.2}	13.1 {45.9}	12.9 {45.5}	12.9 {45.2}	12.5 {44.0}	12.0 {42.4}
-50	12.7 {44.8}	12.6 {44.3}	12.5 {43.8}	12.3 {43.4}	11.9 {42.0}	11.4 {40.2}	

Capacity Table for VKV

R407H < Type VKV >

Subcooling : 0°C / Superheat : 0°C

Catalog No.	Evaporating Temp. (°C)	Capacity (U.S.R.T.) (kW)					
		R407H					
		Condensing Temp. (°C)					
		30	35	38	40	45	50
VKV-14DS VKV-14DS167	10	1.5 {5.4}	1.6 {5.7}	1.7 {5.9}	1.7 {6.0}	1.7 {6.1}	1.8 {6.2}
	5	1.6 {5.7}	1.7 {6.0}	1.7 {6.1}	1.8 {6.2}	1.8 {6.3}	1.8 {6.3}
	0	1.7 {5.9}	1.7 {6.1}	1.8 {6.2}	1.8 {6.3}	1.8 {6.4}	1.8 {6.4}
	-5	1.7 {6.1}	1.8 {6.3}	1.8 {6.3}	1.8 {6.4}	1.8 {6.4}	1.8 {6.4}
	-10	1.8 {6.2}	1.8 {6.3}	1.8 {6.4}	1.8 {6.4}	1.8 {6.5}	1.8 {6.4}
	-20	1.8 {6.3}	1.8 {6.4}	1.8 {6.4}	1.8 {6.4}	1.8 {6.4}	1.8 {6.4}
	-30	1.8 {6.3}	1.8 {6.4}	1.8 {6.4}	1.8 {6.4}	1.8 {6.3}	1.8 {6.2}
	-40	1.8 {6.2}	1.8 {6.2}	1.8 {6.2}	1.8 {6.2}	1.8 {6.2}	1.7 {6.0}
VKV-18DS VKV-18DS168	10	3.1 {10.8}	3.3 {11.5}	3.3 {11.8}	3.4 {12.0}	3.5 {12.3}	3.5 {12.5}
	5	3.2 {11.4}	3.4 {11.9}	3.5 {12.2}	3.5 {12.3}	3.6 {12.6}	3.6 {12.7}
	0	3.4 {11.8}	3.5 {12.3}	3.5 {12.5}	3.6 {12.6}	3.6 {12.8}	3.6 {12.8}
	-5	3.5 {12.1}	3.6 {12.5}	3.6 {12.7}	3.6 {12.8}	3.7 {12.9}	3.7 {12.9}
	-10	3.5 {12.4}	3.6 {12.7}	3.6 {12.8}	3.7 {12.9}	3.7 {12.9}	3.7 {12.9}
	-20	3.6 {12.6}	3.6 {12.8}	3.7 {12.9}	3.7 {12.9}	3.7 {12.9}	3.6 {12.7}
	-30	3.6 {12.6}	3.6 {12.7}	3.6 {12.8}	3.6 {12.8}	3.6 {12.7}	3.5 {12.5}
	-40	3.5 {12.4}	3.6 {12.5}	3.6 {12.5}	3.5 {12.5}	3.5 {12.3}	3.4 {12.1}
VKV-25DS VKV-25DS169	10	5.5 {19.4}	5.9 {20.6}	6.0 {21.2}	6.1 {21.5}	6.3 {22.1}	6.4 {22.5}
	5	5.8 {20.5}	6.1 {21.5}	6.2 {21.9}	6.3 {22.2}	6.4 {22.6}	6.5 {22.8}
	0	6.0 {21.3}	6.3 {22.1}	6.4 {22.4}	6.4 {22.6}	6.5 {23.0}	6.6 {23.0}
	-5	6.2 {21.8}	6.4 {22.5}	6.5 {22.8}	6.5 {23.0}	6.6 {23.2}	6.6 {23.2}
	-10	6.3 {22.3}	6.5 {22.8}	6.6 {23.0}	6.6 {23.2}	6.6 {23.3}	6.6 {23.2}
	-20	6.4 {22.7}	6.6 {23.0}	6.6 {23.2}	6.6 {23.2}	6.6 {23.2}	6.5 {22.9}
	-30	6.4 {22.7}	6.5 {22.9}	6.5 {23.0}	6.5 {23.0}	6.5 {22.8}	6.4 {22.5}
	-40	6.4 {22.4}	6.4 {22.5}	6.4 {22.5}	6.4 {22.4}	6.3 {22.2}	6.2 {21.8}
VKV-30DS VKV-30DS170	10	7.4 {25.9}	7.8 {27.5}	8.0 {28.3}	8.2 {28.7}	8.4 {29.5}	8.5 {29.9}
	5	7.8 {27.3}	8.1 {28.6}	8.3 {29.2}	8.4 {29.6}	8.6 {30.2}	8.7 {30.4}
	0	8.1 {28.3}	8.4 {29.4}	8.5 {29.9}	8.6 {30.2}	8.7 {30.6}	8.7 {30.7}
	-5	8.3 {29.1}	8.5 {30.0}	8.6 {30.4}	8.7 {30.6}	8.8 {30.9}	8.8 {30.9}
	-10	8.4 {29.7}	8.6 {30.4}	8.7 {30.7}	8.8 {30.9}	8.8 {31.0}	8.8 {30.9}
	-20	8.6 {30.2}	8.7 {30.7}	8.8 {30.9}	8.8 {31.0}	8.8 {30.9}	8.7 {30.6}
	-30	8.6 {30.2}	8.7 {30.5}	8.7 {30.6}	8.7 {30.6}	8.6 {30.4}	8.5 {29.9}
	-40	8.5 {29.8}	8.5 {30.0}	8.5 {30.0}	8.5 {29.9}	8.4 {29.6}	8.3 {29.0}
VKV-32DS VKV-32DS171	10	8.6 {30.2}	9.1 {32.1}	9.4 {33.0}	9.5 {33.5}	9.8 {34.4}	9.9 {34.9}
	5	9.1 {31.8}	9.5 {33.4}	9.7 {34.1}	9.8 {34.5}	10.0 {35.2}	10.1 {35.5}
	0	9.4 {33.1}	9.8 {34.3}	9.9 {34.9}	10.0 {35.2}	10.2 {35.7}	10.2 {35.9}
	-5	9.7 {34.0}	10.0 {35.0}	10.1 {35.5}	10.2 {35.7}	10.3 {36.1}	10.2 {36.0}
	-10	9.8 {34.6}	10.1 {35.5}	10.2 {35.8}	10.2 {36.0}	10.3 {36.2}	10.3 {36.1}
	-20	10.0 {35.3}	10.2 {35.8}	10.2 {36.0}	10.3 {36.1}	10.3 {36.1}	10.2 {35.7}
	-30	10.0 {35.3}	10.1 {35.6}	10.2 {35.7}	10.2 {35.7}	10.1 {35.5}	9.9 {34.9}
	-40	9.9 {34.8}	9.9 {35.0}	9.9 {35.0}	9.9 {34.9}	9.8 {34.5}	9.6 {33.9}
VKV-40DS	10	13.8 {48.5}	14.7 {51.6}	15.1 {53.0}	15.3 {53.8}	15.7 {55.3}	16.0 {56.1}
	5	14.5 {51.2}	15.3 {53.6}	15.6 {54.8}	15.8 {55.4}	16.1 {56.6}	16.2 {57.1}
	0	15.1 {53.1}	15.7 {55.2}	16.0 {56.1}	16.1 {56.6}	16.3 {57.4}	16.4 {57.6}
	-5	15.5 {54.6}	16.0 {56.3}	16.2 {57.0}	16.3 {57.4}	16.5 {58.0}	16.5 {57.9}
	-10	15.8 {55.7}	16.2 {57.0}	16.4 {57.6}	16.5 {57.9}	16.6 {58.2}	16.5 {57.9}
	-20	16.1 {56.7}	16.4 {57.6}	16.5 {57.9}	16.5 {58.1}	16.5 {58.0}	16.3 {57.4}
	-30	16.1 {56.7}	16.3 {57.3}	16.3 {57.4}	16.3 {57.4}	16.2 {57.0}	16.0 {56.1}
	-40	15.9 {55.9}	16.0 {56.2}	16.0 {56.2}	16.0 {56.1}	15.8 {55.5}	15.5 {54.4}
-50	15.5 {54.6}	15.6 {54.7}	15.5 {54.6}	15.5 {54.4}	15.2 {53.6}	14.9 {52.3}	