

Capacity Table

SAGInoMIYA

SOLENOID VALVES SERIES



SAGINOMIYA PRODUCT CATALOG

● Solenoid Valves

SAGInoMIYA

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Capacity Table

Liquid line Capacity

CT. 38°C / ET. 5°C / SC. 0K

Catalog No.	Capacity (U.S.R.T. {kw})									
	R134a					R404A				
	Pressure Drop (MPa)									
	0.01	0.015	0.02	0.04	0.01	0.015	0.02	0.04		
SEV-303BY	0.86 {3.0}	1.1 {3.7}	1.2 {4.3}	1.7 {6.0}	0.60 {2.1}	0.73 {2.6}	0.84 {3.0}	1.2 {4.2}		
SEV-502BY	1.8 {6.2}	2.2 {7.6}	2.5 {8.7}	3.5 {12}	1.2 {4.3}	1.5 {5.2}	1.7 {6.1}	2.4 {8.6}		
SEV-603BY	2.7 {9.7}	3.4 {12}	3.9 {14}	5.5 {19}	1.9 {6.7}	2.3 {8.2}	2.7 {9.5}	3.8 {13}		
SEV-1004BY	6.0 {21}	7.4 {26}	8.5 {30}	12 {42}	4.2 {15}	5.1 {18}	5.9 {21}	8.4 {29}		
SEV-1205BY	10 {35}	12 {43}	14 {50}	20 {70}	6.9 {24}	8.5 {30}	9.8 {34}	14 {49}		
SEV-1506BY	15 {54}	19 {67}	22 {77}	31 {109}	11 {38}	13 {46}	15 {53}	21 {76}		
SEV-303DY	0.86 {3.0}	1.1 {3.7}	1.2 {4.3}	1.7 {6.0}	0.60 {2.1}	0.73 {2.6}	0.84 {3.0}	1.2 {4.2}		
SEV-502DY	1.8 {6.4}	2.2 {7.9}	2.6 {9.1}	3.6 {13}	1.3 {4.5}	1.5 {5.5}	1.8 {6.3}	2.5 {8.9}		
SEV-603DY	2.9 {10}	3.5 {12}	4.0 {14}	5.7 {20}	2.0 {7.0}	2.4 {8.5}	2.8 {9.9}	4.0 {14}		
SEV-604DY	2.9 {10}	3.5 {12}	4.0 {14}	5.7 {20}	2.0 {7.0}	2.4 {8.5}	2.8 {9.9}	4.0 {14}		
SEV-1004DY	6.9 {24}	8.4 {30}	9.7 {34}	14 {48}	4.8 {17}	5.9 {21}	6.8 {24}	9.6 {34}		
SEV-1005DY	6.9 {24}	8.4 {30}	9.7 {34}	14 {48}	4.8 {17}	5.9 {21}	6.8 {24}	9.6 {34}		
SEV-1205DY	12 {42}	15 {52}	17 {60}	24 {85}	8.4 {29}	10 {36}	12 {42}	17 {59}		
SEV-1506DY	18 {64}	22 {79}	26 {91}	36 {128}	13 {45}	15 {55}	18 {63}	25 {89}		
SEV-1507DY	18 {64}	22 {79}	26 {91}	36 {128}	13 {45}	15 {55}	18 {63}	25 {89}		

Catalog No.	Capacity (U.S.R.T. {kw})									
	R407C					R410A				
	Pressure Drop (MPa)									
	0.01	0.015	0.02	0.04	0.01	0.015	0.02	0.04		
SEV-303BY	0.87 {3.1}	1.07 {3.7}	1.2 {4.3}	1.7 {6.1}	0.87 {3.0}	1.06 {3.7}	1.2 {4.3}	1.7 {6.1}		
SEV-502BY	1.8 {6.2}	2.2 {7.6}	2.5 {8.8}	3.5 {12}	1.8 {6.2}	2.2 {7.6}	2.5 {8.8}	3.5 {12}		
SEV-603BY	2.8 {9.8}	3.4 {12}	3.9 {14}	5.6 {20}	2.8 {9.7}	3.4 {12}	3.9 {14}	5.5 {19}		
SEV-1004BY	6.1 {21}	7.5 {26}	8.6 {30}	12 {43}	6.1 {21}	7.4 {26}	8.6 {30}	12 {43}		
SEV-1205BY	10 {35}	12.4 {43}	14 {50}	20 {71}	10 {35}	12.3 {43}	14 {50}	20 {71}		
SEV-1506BY	16 {55}	19.2 {67}	22 {78}	31 {110}	16 {55}	19.1 {67}	22 {78}	31 {110}		
SEV-303DY	0.87 {3.1}	1.07 {3.7}	1.2 {4.3}	1.7 {6.1}	0.87 {3.0}	1.06 {3.7}	1.2 {4.3}	1.7 {6.1}		
SEV-502DY	1.8 {6.5}	2.3 {7.9}	2.6 {9.2}	3.7 {13}	1.8 {6.5}	2.2 {7.9}	2.6 {9.1}	3.7 {13}		
SEV-603DY	2.9 {10}	3.5 {12}	4.1 {14}	5.8 {20}	2.9 {10}	3.5 {12.4}	4.1 {14}	5.8 {20}		
SEV-604DY	2.9 {10}	3.5 {12}	4.1 {14}	5.8 {20}	2.9 {10}	3.5 {12.4}	4.1 {14}	5.8 {20}		
SEV-1004DY	7.0 {24}	8.5 {30}	9.8 {35}	13.9 {49}	6.9 {24}	8.5 {29.8}	9.8 {34}	14 {49}		
SEV-1005DY	7.0 {24}	8.5 {30}	9.8 {35}	13.9 {49}	6.9 {24}	8.5 {29.8}	9.8 {34}	14 {49}		
SEV-1205DY	12 {43}	15 {52}	17 {61}	24 {86}	12 {43}	15 {52.2}	17 {60}	24 {85}		
SEV-1506DY	18 {65}	23 {79}	26 {92}	37 {130}	18 {65}	22 {79.1}	26 {91}	37 {129}		
SEV-1507DY	18 {65}	23 {79}	26 {92}	37 {130}	18 {65}	22 {79.1}	26 {91}	37 {129}		

Catalog No.	Capacity (U.S.R.T. {kw})									
	R448A					R449A				
	Pressure Drop (MPa)									
	0.01	0.015	0.02	0.04	0.01	0.015	0.02	0.04		
SEV-303BY	0.80 {2.8}	0.98 {3.4}	1.1 {4.0}	1.6 {5.6}	0.79 {2.8}	0.96 {3.4}	1.1 {3.9}	1.6 {5.5}		
SEV-502BY	1.6 {5.7}	2.0 {7.0}	2.3 {8.1}	3.3 {11}	1.6 {5.7}	2.0 {6.9}	2.3 {8.0}	3.2 {11}		
SEV-603BY	2.6 {9.0}	3.1 {11}	3.6 {13}	5.1 {18}	2.5 {8.9}	3.1 {11}	3.6 {13}	5.0 {18}		
SEV-1004BY	5.6 {20}	6.8 {24}	7.9 {28}	11 {39}	5.5 {19}	6.8 {24}	7.8 {27}	11 {39}		
SEV-1205BY	9.3 {33}	11 {40}	13 {46}	19 {65}	9.1 {32}	11 {39}	13 {45}	18 {64}		
SEV-1506BY	14 {51}	18 {62}	20 {72}	29 {101}	14 {50}	17 {61}	20 {71}	28 {100}		
SEV-303DY	0.80 {2.8}	0.98 {3.4}	1.1 {4.0}	1.6 {5.6}	0.79 {2.8}	0.96 {3.4}	1.1 {3.9}	1.6 {5.5}		
SEV-502DY	1.7 {6.0}	2.1 {7.3}	2.4 {8.4}	3.4 {12}	1.7 {5.9}	2.0 {7.2}	2.4 {8.3}	3.3 {12}		
SEV-603DY	2.7 {9.3}	3.2 {11}	3.8 {13}	5.3 {19}	2.6 {9.2}	3.2 {11}	3.7 {13}	5.2 {18}		
SEV-604DY	2.7 {9.3}	3.2 {11}	3.8 {13}	5.3 {19}	2.6 {9.2}	3.2 {11}	3.7 {13}	5.2 {18}		
SEV-1004DY	6.4 {22}	7.8 {28}	9.0 {32}	13 {45}	6.3 {22}	7.7 {27}	8.9 {31}	13 {44}		
SEV-1005DY	6.4 {22}	7.8 {28}	9.0 {32}	13 {45}	6.3 {22}	7.7 {27}	8.9 {31}	13 {44}		
SEV-1205DY	11 {39}	14 {48}	16 {56}	22 {79}	11 {39}	14 {48}	16 {55}	22 {78}		
SEV-1506DY	17 {60}	21 {73}	24 {84}	34 {119}	17 {59}	20 {72}	24 {83}	33 {117}		
SEV-1507DY	17 {60}	21 {73}	24 {84}	34 {119}	17 {59}	20 {72}	24 {83}	33 {117}		

*Based on condensing temp. 38°C, evaporating temp. -5°C, sub-cooling 0°C. In case the conditions is different, the value is multiplied by the correction factor in the table.

Catalog No.	Capacity (U.S.R.T. {kw})								
	R407H				R463A-J				
	Pressure Drop (MPa)								
	0.01	0.015	0.02	0.04	0.01	0.015	0.02	0.04	
SEV-303BY	0.93 {3.3}	1.1 {4.0}	1.3 {4.6}	1.9 {6.5}	0.84 {3.0}	1.0 {3.6}	1.2 {4.2}	1.7 {5.9}	
SEV-502BY	1.9 {6.7}	2.3 {8.2}	2.7 {9.4}	3.8 {13}	1.7 {6.0}	2.1 {7.4}	2.4 {8.6}	3.4 {12}	
SEV-603BY	3.0 {10}	3.6 {13}	4.2 {15}	5.9 {21}	2.7 {9.5}	3.3 {12}	3.8 {13}	5.4 {19}	
SEV-1004BY	6.5 {23}	8.0 {28}	9.2 {32}	13 {46}	5.9 {21}	7.2 {25}	8.3 {29}	12 {42}	
SEV-1205BY	11 {38}	13 {46}	15 {54}	22 {76}	9.8 {34}	12 {42}	14 {49}	20 {69}	
SEV-1506BY	17 {59}	20 {72}	24 {83}	33 {118}	15 {53}	19 {65}	21 {75}	30 {107}	
SEV-303DY	0.93 {3.3}	1.1 {4.0}	1.3 {4.6}	1.9 {6.5}	0.84 {3.0}	1.0 {3.6}	1.2 {4.2}	1.7 {5.9}	
SEV-502DY	2.0 {6.9}	2.4 {8.5}	2.8 {10}	3.9 {14}	1.8 {6.3}	2.2 {7.7}	2.5 {8.9}	3.6 {13}	
SEV-603DY	3.1 {11}	3.8 {13}	4.4 {15}	6.2 {22}	2.8 {10}	3.4 {12}	4.0 {14}	5.6 {20}	
SEV-604DY	3.1 {11}	3.8 {13}	4.4 {15}	6.2 {22}	2.8 {10}	3.4 {12}	4.0 {14}	5.6 {20}	
SEV-1004DY	7.4 {26}	9.1 {32}	11 {37}	15 {52}	6.7 {24}	8.3 {29}	9.5 {34}	13 {47}	
SEV-1005DY	7.4 {26}	9.1 {32}	11 {37}	15 {52}	6.7 {24}	8.3 {29}	9.5 {34}	13 {47}	
SEV-1205DY	13 {46}	16 {56}	18 {65}	26 {91}	12 {42}	14 {51}	17 {59}	24 {83}	
SEV-1506DY	20 {69}	24 {85}	28 {98}	39 {138}	18 {63}	22 {77}	25 {89}	36 {126}	
SEV-1507DY	20 {69}	24 {85}	28 {98}	39 {138}	18 {63}	22 {77}	25 {89}	36 {126}	

*Based on condensing temp. 38°C, evaporating temp. -5°C, sub-cooling 0°C. In case the conditions is different, the value is multiplied by the correction factor in the table.

Evaporating temperature correction factor

Evaporating Temp. (°C)	Correction factor							
	R134a	R404A	R407C	R410A	R448A	R449A	R407H	R463A-J
5	1	1	1	1	1	1	1	1
0	0.98	0.98	0.98	0.99	0.98	0.98	0.99	0.99
-10	0.94	0.93	0.95	0.97	0.95	0.95	0.96	0.96
-20	0.90	0.88	0.92	0.95	0.91	0.91	0.93	0.93
-30	0.85	0.83	0.88	0.92	0.87	0.87	0.89	0.90
-40	0.81	0.78	0.84	0.89	0.83	0.83	0.86	0.86

Subcooling correction factor

Subcooling (K)	Correction factor							
	R134a	R404A	R407C	R410A	R448A	R449A	R407H	R463A-J
0	1	1	1	1	1	1	1	1
10	1.12	1.17	1.13	1.14	1.14	1.14	1.14	1.14
20	1.23	1.34	1.25	1.27	1.27	1.27	1.26	1.28
30	1.35	1.51	1.37	1.41	1.40	1.40	1.38	1.41
40	1.46	1.67	1.49	1.53	1.53	1.53	1.49	1.54
50	1.58	1.83	1.61	1.66	1.65	1.66	1.61	1.67

Suction line Capacity

CT. 38°C , Superheat at valve inlet 0K

Catalog No.	Pressure drop across the valve (MPa)	Capacity (U.S.R.T. {kw})							
		R134a							
		Evaporating Temp. (°C)							
		5	0	-10	-20	-30	-40		
SEV-303BY	0.01	0.098 {0.34}	0.088 {0.31}	0.071 {0.25}	0.056 {0.20}	0.043 {0.15}	0.032 {0.11}		
	0.015	0.12 {0.42}	0.11 {0.38}	0.086 {0.30}	0.068 {0.24}	0.052 {0.18}	0.038 {0.13}		
	0.02	0.14 {0.48}	0.12 {0.44}	0.10 {0.35}	0.078 {0.27}	0.059 {0.21}	0.043 {0.15}		
	0.04	0.19 {0.67}	0.17 {0.60}	0.14 {0.48}	0.11 {0.37}	0.077 {0.27}	0.052 {0.18}		
SEV-502BY	0.01	0.20 {0.70}	0.18 {0.63}	0.14 {0.51}	0.11 {0.40}	0.088 {0.31}	0.065 {0.23}		
	0.015	0.24 {0.86}	0.22 {0.77}	0.18 {0.62}	0.14 {0.49}	0.11 {0.37}	0.077 {0.27}		
	0.02	0.28 {1.0}	0.25 {0.89}	0.20 {0.71}	0.16 {0.56}	0.12 {0.42}	0.087 {0.31}		
	0.04	0.39 {1.4}	0.35 {1.2}	0.28 {1.0}	0.21 {0.75}	0.16 {0.55}	0.11 {0.38}		
SEV-603BY	0.01	0.31 {1.1}	0.28 {1.0}	0.23 {0.80}	0.18 {0.63}	0.14 {0.48}	0.10 {0.36}		
	0.015	0.38 {1.3}	0.34 {1.2}	0.28 {1.0}	0.22 {0.76}	0.17 {0.58}	0.12 {0.43}		
	0.02	0.44 {1.5}	0.40 {1.4}	0.32 {1.1}	0.25 {0.87}	0.19 {0.66}	0.14 {0.48}		
	0.04	0.61 {2.2}	0.55 {1.9}	0.44 {1.5}	0.34 {1.2}	0.25 {0.87}	0.17 {0.59}		
SEV-1004BY	0.01	0.68 {2.4}	0.62 {2.2}	0.50 {1.7}	0.39 {1.4}	0.30 {1.1}	0.22 {0.78}		
	0.015	0.83 {2.9}	0.75 {2.6}	0.61 {2.1}	0.47 {1.7}	0.36 {1.3}	0.27 {0.93}		
	0.02	0.96 {3.4}	0.87 {3.0}	0.69 {2.4}	0.54 {1.9}	0.41 {1.4}	0.30 {1.0}		
	0.04	1.3 {4.7}	1.2 {4.2}	0.96 {3.4}	0.74 {2.6}	0.54 {1.9}	0.37 {1.3}		
SEV-1205BY	0.01	1.1 {4.0}	1.0 {3.6}	0.82 {2.9}	0.65 {2.3}	0.50 {1.8}	0.37 {1.3}		
	0.015	1.4 {4.9}	1.2 {4.4}	1.0 {3.5}	0.79 {2.8}	0.60 {2.1}	0.44 {1.5}		
	0.02	1.6 {5.6}	1.4 {5.0}	1.2 {4.0}	0.90 {3.2}	0.68 {2.4}	0.49 {1.7}		
	0.04	2.2 {7.8}	2.0 {7.0}	1.6 {5.6}	1.2 {4.3}	0.90 {3.2}	0.61 {2.1}		
SEV-1506BY	0.01	1.8 {6.2}	1.6 {5.6}	1.3 {4.5}	1.0 {3.5}	0.77 {2.7}	0.57 {2.0}		
	0.015	2.1 {7.5}	1.9 {6.8}	1.6 {5.5}	1.2 {4.3}	0.93 {3.3}	0.68 {2.4}		
	0.02	2.5 {8.7}	2.2 {7.8}	1.8 {6.3}	1.4 {4.9}	1.1 {3.7}	0.77 {2.7}		
	0.04	3.4 {12}	3.1 {11}	2.5 {8.6}	1.9 {6.7}	1.4 {4.9}	0.94 {3.3}		
SEV-303DY	0.01	0.10 {0.34}	0.088 {0.31}	0.071 {0.25}	0.056 {0.20}	0.043 {0.15}	0.032 {0.11}		
	0.015	0.12 {0.42}	0.11 {0.38}	0.086 {0.30}	0.068 {0.24}	0.052 {0.18}	0.038 {0.13}		
	0.02	0.14 {0.48}	0.12 {0.44}	0.10 {0.35}	0.078 {0.27}	0.059 {0.21}	0.043 {0.15}		
	0.04	0.19 {0.67}	0.17 {0.60}	0.14 {0.48}	0.11 {0.37}	0.077 {0.27}	0.052 {0.18}		
SEV-502DY	0.01	0.21 {0.73}	0.19 {0.66}	0.15 {0.53}	0.12 {0.42}	0.091 {0.32}	0.067 {0.24}		
	0.015	0.25 {0.89}	0.23 {0.80}	0.18 {0.64}	0.14 {0.51}	0.11 {0.39}	0.080 {0.28}		
	0.02	0.29 {1.0}	0.26 {0.92}	0.21 {0.74}	0.16 {0.58}	0.12 {0.44}	0.090 {0.32}		
	0.04	0.41 {1.4}	0.36 {1.3}	0.29 {1.0}	0.22 {0.78}	0.16 {0.58}	0.11 {0.39}		
SEV-603DY	0.01	0.32 {1.1}	0.29 {1.0}	0.24 {0.8}	0.19 {0.65}	0.14 {0.50}	0.11 {0.37}		
	0.015	0.40 {1.4}	0.36 {1.3}	0.29 {1.0}	0.23 {0.79}	0.17 {0.60}	0.13 {0.44}		
	0.02	0.46 {1.6}	0.41 {1.4}	0.33 {1.2}	0.26 {0.91}	0.20 {0.69}	0.14 {0.50}		
	0.04	0.63 {2.2}	0.57 {2.0}	0.45 {1.6}	0.35 {1.2}	0.26 {0.90}	0.17 {0.61}		
SEV-604DY	0.01	0.32 {1.1}	0.29 {1.0}	0.24 {0.8}	0.19 {0.65}	0.14 {0.50}	0.11 {0.37}		
	0.015	0.40 {1.4}	0.36 {1.3}	0.29 {1.0}	0.23 {0.79}	0.17 {0.60}	0.13 {0.44}		
	0.02	0.46 {1.6}	0.41 {1.4}	0.33 {1.2}	0.26 {0.91}	0.20 {0.69}	0.14 {0.50}		
	0.04	0.63 {2.2}	0.57 {2.0}	0.45 {1.6}	0.35 {1.2}	0.26 {0.90}	0.17 {0.61}		
SEV-1004DY	0.01	0.78 {2.7}	0.71 {2.5}	0.57 {2.0}	0.45 {1.6}	0.34 {1.2}	0.25 {0.9}		
	0.015	0.95 {3.4}	0.86 {3.0}	0.69 {2.4}	0.54 {1.9}	0.41 {1.5}	0.30 {1.1}		
	0.02	1.1 {3.9}	0.99 {3.5}	0.79 {2.8}	0.62 {2.2}	0.47 {1.7}	0.34 {1.2}		
	0.04	1.5 {5.4}	1.4 {4.8}	1.1 {3.8}	0.84 {3.0}	0.62 {2.2}	0.42 {1.5}		
SEV-1005DY	0.01	0.78 {2.7}	0.71 {2.5}	0.57 {2.0}	0.45 {1.6}	0.34 {1.2}	0.25 {0.9}		
	0.015	0.95 {3.4}	0.86 {3.0}	0.69 {2.4}	0.54 {1.9}	0.41 {1.5}	0.30 {1.1}		
	0.02	1.1 {3.9}	0.99 {3.5}	0.79 {2.8}	0.62 {2.2}	0.47 {1.7}	0.34 {1.2}		
	0.04	1.5 {5.4}	1.4 {4.8}	1.1 {3.8}	0.84 {3.0}	0.62 {2.2}	0.42 {1.5}		
SEV-1205DY	0.01	1.4 {4.8}	1.2 {4.3}	0.99 {3.5}	0.78 {2.8}	0.60 {2.1}	0.45 {1.6}		
	0.015	1.7 {5.9}	1.5 {5.3}	1.2 {4.3}	0.95 {3.3}	0.72 {2.5}	0.53 {1.9}		
	0.02	1.9 {6.8}	1.7 {6.1}	1.4 {4.9}	1.1 {3.8}	0.82 {2.9}	0.60 {2.1}		
	0.04	2.7 {9.4}	2.4 {8.5}	1.9 {6.7}	1.5 {5.2}	1.1 {3.8}	0.73 {2.6}		
SEV-1506DY	0.01	2.1 {7.3}	1.9 {6.6}	1.5 {5.3}	1.2 {4.2}	0.91 {3.2}	0.67 {2.4}		
	0.015	2.5 {8.9}	2.3 {8.0}	1.8 {6.4}	1.4 {5.1}	1.1 {3.9}	0.80 {2.8}		
	0.02	2.9 {10}	2.6 {9.2}	2.1 {7.4}	1.6 {5.8}	1.2 {4.4}	0.90 {3.2}		
	0.04	4.1 {14}	3.6 {13}	2.9 {10}	2.2 {7.8}	1.6 {5.8}	1.1 {3.9}		
SEV-1507DY	0.01	2.1 {7.3}	1.9 {6.6}	1.5 {5.3}	1.2 {4.2}	0.91 {3.2}	0.67 {2.4}		
	0.015	2.5 {8.9}	2.3 {8.0}	1.8 {6.4}	1.4 {5.1}	1.1 {3.9}	0.80 {2.8}		
	0.02	2.9 {10}	2.6 {9.2}	2.1 {7.4}	1.6 {5.8}	1.2 {4.4}	0.90 {3.2}		
	0.04	4.1 {14}	3.6 {13}	2.9 {10}	2.2 {7.8}	1.6 {5.8}	1.1 {3.9}		

Suction line Capacity

CT. 38°C , Superheat at valve inlet 0K

Catalog No.	Pressure Drop (MPa)	Capacity (U.S.R.T. {kw})							
		R404A							
		Evaporating Temp. (°C)							
		5	0	-10	-20	-30	-40		
SEV-303BY	0.01	0.10 {0.36}	0.093 {0.33}	0.077 {0.27}	0.062 {0.22}	0.048 {0.17}	0.037 {0.13}		
	0.015	0.13 {0.44}	0.11 {0.40}	0.094 {0.33}	0.075 {0.26}	0.059 {0.21}	0.045 {0.16}		
	0.02	0.14 {0.51}	0.13 {0.46}	0.11 {0.38}	0.086 {0.30}	0.068 {0.24}	0.051 {0.18}		
	0.04	0.20 {0.71}	0.18 {0.65}	0.15 {0.53}	0.12 {0.42}	0.093 {0.33}	0.070 {0.24}		
SEV-502BY	0.01	0.21 {0.73}	0.19 {0.67}	0.16 {0.55}	0.13 {0.44}	0.10 {0.35}	0.076 {0.27}		
	0.015	0.26 {0.90}	0.23 {0.82}	0.19 {0.67}	0.15 {0.54}	0.12 {0.42}	0.092 {0.32}		
	0.02	0.29 {1.0}	0.27 {0.94}	0.22 {0.77}	0.18 {0.62}	0.14 {0.49}	0.10 {0.37}		
	0.04	0.41 {1.5}	0.38 {1.3}	0.31 {1.1}	0.25 {0.86}	0.19 {0.67}	0.14 {0.50}		
SEV-603BY	0.01	0.33 {1.2}	0.30 {1.1}	0.25 {0.86}	0.20 {0.69}	0.16 {0.55}	0.12 {0.42}		
	0.015	0.40 {1.4}	0.37 {1.3}	0.30 {1.1}	0.24 {0.85}	0.19 {0.66}	0.14 {0.51}		
	0.02	0.46 {1.6}	0.42 {1.5}	0.34 {1.2}	0.28 {1.0}	0.22 {0.76}	0.16 {0.58}		
	0.04	0.65 {2.3}	0.59 {2.1}	0.48 {1.7}	0.38 {1.4}	0.30 {1.0}	0.22 {0.78}		
SEV-1004BY	0.01	0.72 {2.5}	0.65 {2.3}	0.54 {1.9}	0.43 {1.5}	0.34 {1.2}	0.26 {0.91}		
	0.015	0.88 {3.1}	0.80 {2.8}	0.66 {2.3}	0.53 {1.9}	0.41 {1.5}	0.31 {1.1}		
	0.02	1.0 {3.6}	0.92 {3.2}	0.75 {2.7}	0.61 {2.1}	0.47 {1.7}	0.36 {1.3}		
	0.04	1.4 {5.0}	1.3 {4.5}	1.1 {3.7}	0.84 {3.0}	0.65 {2.3}	0.49 {1.7}		
SEV-1205BY	0.01	1.2 {4.2}	1.1 {3.8}	0.89 {3.1}	0.72 {2.5}	0.56 {2.0}	0.43 {1.5}		
	0.015	1.5 {5.1}	1.3 {4.7}	1.1 {3.8}	0.87 {3.1}	0.68 {2.4}	0.52 {1.8}		
	0.02	1.7 {5.9}	1.5 {5.4}	1.3 {4.4}	1.0 {3.5}	0.78 {2.8}	0.60 {2.1}		
	0.04	2.3 {8.3}	2.1 {7.5}	1.7 {6.1}	1.4 {4.9}	1.1 {3.8}	0.81 {2.8}		
SEV-1506BY	0.01	1.8 {6.5}	1.7 {5.9}	1.4 {4.9}	1.1 {3.9}	0.87 {3.1}	0.67 {2.3}		
	0.015	2.3 {7.9}	2.1 {7.2}	1.7 {5.9}	1.4 {4.8}	1.1 {3.7}	0.81 {2.8}		
	0.02	2.6 {9.1}	2.4 {8.3}	1.9 {6.8}	1.6 {5.5}	1.2 {4.3}	0.92 {3.3}		
	0.04	3.6 {13}	3.3 {12}	2.7 {9.5}	2.2 {7.6}	1.7 {5.9}	1.3 {4.4}		
SEV-303DY	0.01	0.10 {0.36}	0.093 {0.33}	0.077 {0.27}	0.062 {0.22}	0.048 {0.17}	0.037 {0.13}		
	0.015	0.13 {0.44}	0.11 {0.40}	0.094 {0.33}	0.075 {0.26}	0.059 {0.21}	0.045 {0.16}		
	0.02	0.14 {0.51}	0.13 {0.46}	0.11 {0.38}	0.086 {0.30}	0.068 {0.24}	0.051 {0.18}		
	0.04	0.20 {0.71}	0.18 {0.65}	0.15 {0.53}	0.12 {0.42}	0.093 {0.33}	0.070 {0.24}		
SEV-502DY	0.01	0.22 {0.76}	0.20 {0.70}	0.16 {0.57}	0.13 {0.46}	0.10 {0.36}	0.079 {0.28}		
	0.015	0.27 {0.93}	0.24 {0.85}	0.20 {0.70}	0.16 {0.56}	0.13 {0.44}	0.10 {0.33}		
	0.02	0.31 {1.1}	0.28 {1.0}	0.23 {0.80}	0.18 {0.64}	0.14 {0.50}	0.11 {0.38}		
	0.04	0.43 {1.5}	0.39 {1.4}	0.32 {1.1}	0.25 {0.90}	0.20 {0.69}	0.15 {0.52}		
SEV-603DY	0.01	0.34 {1.2}	0.31 {1.1}	0.25 {0.90}	0.20 {0.72}	0.16 {0.57}	0.12 {0.43}		
	0.015	0.42 {1.5}	0.38 {1.3}	0.31 {1.1}	0.25 {0.88}	0.20 {0.69}	0.15 {0.52}		
	0.02	0.48 {1.7}	0.44 {1.5}	0.36 {1.3}	0.29 {1.0}	0.22 {0.79}	0.17 {0.60}		
	0.04	0.67 {2.4}	0.61 {2.2}	0.50 {1.8}	0.40 {1.4}	0.31 {1.1}	0.23 {0.81}		
SEV-604DY	0.01	0.34 {1.2}	0.31 {1.1}	0.25 {0.90}	0.20 {0.72}	0.16 {0.57}	0.12 {0.43}		
	0.015	0.42 {1.5}	0.38 {1.3}	0.31 {1.1}	0.25 {0.88}	0.20 {0.69}	0.15 {0.52}		
	0.02	0.48 {1.7}	0.44 {1.5}	0.36 {1.3}	0.29 {1.0}	0.22 {0.79}	0.17 {0.60}		
	0.04	0.67 {2.4}	0.61 {2.2}	0.50 {1.8}	0.40 {1.4}	0.31 {1.1}	0.23 {0.81}		
SEV-1004DY	0.01	0.82 {2.9}	0.75 {2.6}	0.61 {2.2}	0.49 {1.7}	0.39 {1.4}	0.30 {1.0}		
	0.015	1.0 {3.5}	0.91 {3.2}	0.75 {2.6}	0.60 {2.1}	0.47 {1.7}	0.36 {1.3}		
	0.02	1.2 {4.1}	1.1 {3.7}	0.86 {3.0}	0.69 {2.4}	0.54 {1.9}	0.41 {1.4}		
	0.04	1.6 {5.7}	1.5 {5.2}	1.2 {4.2}	1.0 {3.4}	0.75 {2.6}	0.56 {2.0}		
SEV-1005DY	0.01	0.82 {2.9}	0.75 {2.6}	0.61 {2.2}	0.49 {1.7}	0.39 {1.4}	0.30 {1.0}		
	0.015	1.0 {3.5}	0.91 {3.2}	0.75 {2.6}	0.60 {2.1}	0.47 {1.7}	0.36 {1.3}		
	0.02	1.2 {4.1}	1.1 {3.7}	0.86 {3.0}	0.69 {2.4}	0.54 {1.9}	0.4 {1.4}		
	0.04	1.6 {5.7}	1.5 {5.2}	1.2 {4.2}	1.0 {3.4}	0.75 {2.6}	0.6 {2.0}		
SEV-1205DY	0.01	1.4 {5.0}	1.3 {4.6}	1.1 {3.8}	0.86 {3.0}	0.68 {2.4}	0.52 {1.8}		
	0.015	1.8 {6.2}	1.6 {5.6}	1.3 {4.6}	1.1 {3.7}	0.83 {2.9}	0.63 {2.2}		
	0.02	2.0 {7.1}	1.8 {6.5}	1.5 {5.3}	1.2 {4.3}	0.95 {3.3}	0.72 {2.5}		
	0.04	2.8 {10}	2.6 {9.1}	2.1 {7.4}	1.7 {5.9}	1.3 {4.6}	1.0 {3.4}		
SEV-1506DY	0.01	2.2 {7.6}	2.0 {7.0}	1.6 {5.7}	1.3 {4.6}	1.0 {3.6}	0.79 {2.8}		
	0.015	2.7 {9.3}	2.4 {8.5}	2.0 {7.0}	1.6 {5.6}	1.3 {4.4}	1.0 {3.3}		
	0.02	3.1 {11}	2.8 {9.8}	2.3 {8.0}	1.8 {6.4}	1.4 {5.0}	1.1 {3.8}		
	0.04	4.3 {15}	3.9 {14}	3.2 {11}	2.5 {9.0}	2.0 {6.9}	1.5 {5.2}		
SEV-1507DY	0.01	2.2 {7.6}	2.0 {7.0}	1.6 {5.7}	1.3 {4.6}	1.0 {3.6}	0.79 {2.8}		
	0.015	2.7 {9.3}	2.4 {8.5}	2.0 {7.0}	1.6 {5.6}	1.3 {4.4}	1.0 {3.3}		
	0.02	3.1 {11}	2.8 {9.8}	2.3 {8.0}	1.8 {6.4}	1.4 {5.0}	1.1 {3.8}		
	0.04	4.3 {15}	3.9 {14}	3.2 {11}	2.5 {9.0}	2.0 {6.9}	1.5 {5.2}		

Suction line Capacity

CT. 38°C , Superheat at valve inlet 0K

Catalog No.	Pressure Drop (MPa)	Capacity (U.S.R.T. {kw})							
		R407C							
		Evaporating Temp. (°C)							
		5	0	-10	-20	-30	-40		
SEV-303BY	0.01	0.12 {0.41}	0.11 {0.38}	0.088 {0.31}	0.070 {0.25}	0.055 {0.19}	0.042 {0.15}		
	0.015	0.14 {0.51}	0.13 {0.46}	0.11 {0.38}	0.086 {0.30}	0.067 {0.23}	0.050 {0.18}		
	0.02	0.17 {0.58}	0.15 {0.53}	0.12 {0.43}	0.10 {0.35}	0.076 {0.27}	0.057 {0.20}		
	0.04	0.23 {0.82}	0.21 {0.74}	0.17 {0.60}	0.14 {0.48}	0.104 {0.36}	0.075 {0.27}		
SEV-502BY	0.01	0.24 {0.84}	0.22 {0.77}	0.18 {0.63}	0.14 {0.50}	0.11 {0.40}	0.085 {0.30}		
	0.015	0.29 {1.0}	0.27 {0.94}	0.22 {0.77}	0.17 {0.61}	0.14 {0.48}	0.10 {0.36}		
	0.02	0.34 {1.2}	0.31 {1.1}	0.25 {0.88}	0.20 {0.71}	0.16 {0.55}	0.12 {0.41}		
	0.04	0.47 {1.7}	0.43 {1.5}	0.35 {1.2}	0.28 {1.0}	0.21 {0.74}	0.15 {0.54}		
SEV-603BY	0.01	0.38 {1.3}	0.34 {1.2}	0.28 {1.0}	0.23 {0.8}	0.18 {0.62}	0.13 {0.47}		
	0.015	0.46 {1.6}	0.42 {1.5}	0.34 {1.2}	0.27 {1.0}	0.21 {0.75}	0.16 {0.57}		
	0.02	0.53 {1.9}	0.48 {1.7}	0.39 {1.4}	0.31 {1.1}	0.24 {0.86}	0.18 {0.64}		
	0.04	0.74 {2.6}	0.67 {2.4}	0.55 {1.9}	0.43 {1.5}	0.33 {1.2}	0.24 {0.85}		
SEV-1004BY	0.01	0.82 {2.9}	0.75 {2.6}	0.61 {2.2}	0.49 {1.7}	0.39 {1.4}	0.29 {1.0}		
	0.015	1.0 {3.5}	0.92 {3.2}	0.75 {2.6}	0.60 {2.1}	0.47 {1.6}	0.35 {1.2}		
	0.02	1.2 {4.1}	1.1 {3.7}	0.86 {3.0}	0.69 {2.4}	0.53 {1.9}	0.40 {1.4}		
	0.04	1.6 {5.7}	1.5 {5.2}	1.2 {4.2}	0.95 {3.3}	0.73 {2.6}	0.53 {1.9}		
SEV-1205BY	0.01	1.4 {4.8}	1.2 {4.4}	1.0 {3.6}	0.82 {2.9}	0.64 {2.2}	0.49 {1.7}		
	0.015	1.7 {5.9}	1.5 {5.3}	1.2 {4.4}	0.99 {3.5}	0.78 {2.7}	0.58 {2.1}		
	0.02	1.9 {6.8}	1.7 {6.2}	1.4 {5.0}	1.1 {4.0}	0.89 {3.1}	0.66 {2.3}		
	0.04	2.7 {9.5}	2.4 {8.6}	2.0 {7.0}	1.6 {5.5}	1.2 {4.2}	0.88 {3.1}		
SEV-1506BY	0.01	2.1 {7.4}	1.9 {6.8}	1.6 {5.6}	1.3 {4.5}	0.99 {3.5}	0.75 {2.6}		
	0.015	2.6 {9.1}	2.4 {8.3}	1.9 {6.8}	1.5 {5.4}	1.2 {4.2}	0.91 {3.2}		
	0.02	3.0 {10}	2.7 {9.5}	2.2 {7.8}	1.8 {6.2}	1.4 {4.8}	1.0 {3.6}		
	0.04	4.2 {15}	3.8 {13}	3.1 {11}	2.4 {8.6}	1.9 {6.6}	1.4 {4.8}		
SEV-303DY	0.01	0.12 {0.41}	0.11 {0.38}	0.088 {0.31}	0.070 {0.25}	0.055 {0.19}	0.042 {0.15}		
	0.015	0.14 {0.51}	0.13 {0.46}	0.11 {0.38}	0.086 {0.30}	0.067 {0.23}	0.050 {0.18}		
	0.02	0.17 {0.58}	0.15 {0.53}	0.12 {0.43}	0.098 {0.35}	0.076 {0.27}	0.057 {0.20}		
	0.04	0.23 {0.82}	0.21 {0.74}	0.17 {0.60}	0.14 {0.48}	0.10 {0.36}	0.075 {0.27}		
SEV-502DY	0.01	0.25 {0.88}	0.23 {0.80}	0.19 {0.65}	0.15 {0.52}	0.12 {0.41}	0.089 {0.31}		
	0.015	0.30 {1.1}	0.28 {1.0}	0.23 {0.80}	0.18 {0.64}	0.14 {0.50}	0.11 {0.38}		
	0.02	0.35 {1.2}	0.32 {1.1}	0.26 {0.92}	0.21 {0.73}	0.16 {0.57}	0.12 {0.43}		
	0.04	0.49 {1.7}	0.45 {1.6}	0.36 {1.3}	0.29 {1.0}	0.22 {0.77}	0.16 {0.56}		
SEV-603DY	0.01	0.39 {1.4}	0.36 {1.3}	0.29 {1.0}	0.23 {0.82}	0.18 {0.64}	0.14 {0.49}		
	0.015	0.48 {1.7}	0.43 {1.5}	0.36 {1.3}	0.28 {1.0}	0.22 {0.78}	0.17 {0.59}		
	0.02	0.55 {1.9}	0.50 {1.8}	0.41 {1.4}	0.33 {1.1}	0.25 {0.89}	0.19 {0.67}		
	0.04	0.77 {2.7}	0.70 {2.5}	0.57 {2.0}	0.45 {1.6}	0.34 {1.2}	0.25 {0.88}		
SEV-604DY	0.01	0.39 {1.4}	0.36 {1.3}	0.29 {1.0}	0.23 {0.82}	0.18 {0.64}	0.14 {0.49}		
	0.015	0.48 {1.7}	0.43 {1.5}	0.36 {1.3}	0.28 {1.0}	0.22 {0.78}	0.17 {0.59}		
	0.02	0.55 {1.9}	0.50 {1.8}	0.41 {1.4}	0.33 {1.1}	0.25 {0.89}	0.19 {0.67}		
	0.04	0.77 {2.7}	0.70 {2.5}	0.57 {2.0}	0.45 {1.6}	0.34 {1.2}	0.25 {0.88}		
SEV-1004DY	0.01	0.94 {3.3}	0.86 {3.0}	0.70 {2.5}	0.56 {2.0}	0.44 {1.5}	0.33 {1.2}		
	0.015	1.2 {4.0}	1.0 {3.7}	0.86 {3.0}	0.69 {2.4}	0.53 {1.9}	0.40 {1.4}		
	0.02	1.3 {4.7}	1.2 {4.2}	0.98 {3.5}	0.79 {2.8}	0.61 {2.1}	0.46 {1.6}		
	0.04	1.9 {6.5}	1.7 {5.9}	1.4 {4.8}	1.1 {3.8}	0.83 {2.9}	0.60 {2.1}		
SEV-1005DY	0.01	0.94 {3.3}	0.86 {3.0}	0.70 {2.5}	0.56 {2.0}	0.44 {1.5}	0.33 {1.2}		
	0.015	1.2 {4.0}	1.0 {3.7}	0.86 {3.0}	0.69 {2.4}	0.53 {1.9}	0.40 {1.4}		
	0.02	1.3 {4.7}	1.2 {4.2}	0.98 {3.5}	0.79 {2.8}	0.61 {2.1}	0.46 {1.6}		
	0.04	1.9 {6.5}	1.7 {5.9}	1.37 {4.8}	1.1 {3.8}	0.83 {2.9}	0.60 {2.1}		
SEV-1205DY	0.01	1.6 {5.8}	1.5 {5.3}	1.2 {4.3}	0.99 {3.5}	0.77 {2.7}	0.59 {2.1}		
	0.015	2.0 {7.1}	1.8 {6.4}	1.5 {5.3}	1.2 {4.2}	0.94 {3.3}	0.71 {2.5}		
	0.02	2.3 {8.2}	2.1 {7.4}	1.7 {6.1}	1.4 {4.8}	1.1 {3.8}	0.80 {2.8}		
	0.04	3.2 {11}	3.0 {10}	2.4 {8.4}	1.9 {6.7}	1.5 {5.1}	1.1 {3.7}		
SEV-1506DY	0.01	2.5 {8.8}	2.3 {8.0}	1.9 {6.5}	1.5 {5.2}	1.2 {4.1}	0.89 {3.1}		
	0.015	3.0 {11}	2.8 {9.8}	2.3 {8.0}	1.8 {6.4}	1.4 {5.0}	1.1 {3.8}		
	0.02	3.5 {12}	3.2 {11}	2.6 {9.2}	2.1 {7.3}	1.6 {5.7}	1.2 {4.3}		
	0.04	4.9 {17}	4.5 {16}	3.6 {13}	2.9 {10}	2.2 {7.7}	1.6 {5.6}		
SEV-1507DY	0.01	2.5 {8.8}	2.3 {8.0}	1.9 {6.5}	1.5 {5.2}	1.2 {4.1}	0.89 {3.1}		
	0.015	3.0 {11}	2.8 {9.8}	2.3 {8.0}	1.8 {6.4}	1.4 {5.0}	1.1 {3.8}		
	0.02	3.5 {12}	3.2 {11}	2.6 {9.2}	2.1 {7.3}	1.6 {5.7}	1.2 {4.3}		
	0.04	4.9 {17}	4.5 {16}	3.6 {13}	2.9 {10}	2.2 {7.7}	1.6 {5.6}		

Suction line Capacity

CT. 38°C , Superheat at valve inlet 0K

Catalog No.	Pressure Drop (MPa)	Capacity (U.S.R.T. {kw})											
		R410A											
		Evaporating Temp. (°C)											
		5	0	-10	-20	-30	-40	5	0	-10	-20	-30	-40
SEV-303BY	0.01	0.15	{0.52}	0.14	{0.48}	0.11	{0.40}	0.099	{0.35}	0.095	{0.33}	0.077	{0.27}
	0.015	0.18	{0.63}	0.17	{0.58}	0.14	{0.49}	0.12	{0.42}	0.12	{0.41}	0.094	{0.33}
	0.02	0.21	{0.73}	0.19	{0.67}	0.16	{0.57}	0.14	{0.49}	0.13	{0.47}	0.11	{0.38}
	0.04	0.29	{1.0}	0.27	{0.94}	0.23	{0.79}	0.19	{0.68}	0.19	{0.65}	0.15	{0.53}
SEV-502BY	0.01	0.30	{1.1}	0.28	{1.0}	0.23	{0.82}	0.20	{0.71}	0.19	{0.68}	0.16	{0.55}
	0.015	0.37	{1.3}	0.34	{1.2}	0.29	{1.0}	0.25	{0.86}	0.24	{0.83}	0.19	{0.67}
	0.02	0.42	{1.5}	0.39	{1.4}	0.33	{1.2}	0.28	{1.0}	0.27	{1.0}	0.22	{0.77}
	0.04	0.59	{2.1}	0.55	{1.9}	0.46	{1.6}	0.40	{1.4}	0.38	{1.3}	0.30	{1.1}
SEV-603BY	0.01	0.47	{1.7}	0.43	{1.5}	0.37	{1.3}	0.32	{1.1}	0.30	{1.1}	0.25	{0.9}
	0.015	0.57	{2.0}	0.53	{1.9}	0.45	{1.6}	0.39	{1.4}	0.37	{1.3}	0.30	{1.1}
	0.02	0.66	{2.3}	0.61	{2.1}	0.52	{1.8}	0.44	{1.6}	0.43	{1.5}	0.34	{1.2}
	0.04	0.93	{3.3}	0.86	{3.0}	0.72	{2.5}	0.62	{2.2}	0.60	{2.1}	0.48	{1.7}
SEV-1004BY	0.01	1.0	{3.6}	0.95	{3.3}	0.80	{2.8}	0.69	{2.4}	0.66	{2.3}	0.54	{1.9}
	0.015	1.3	{4.4}	1.2	{4.1}	0.98	{3.4}	0.84	{3.0}	0.81	{2.8}	0.66	{2.3}
	0.02	1.4	{5.1}	1.3	{4.7}	1.1	{4.0}	0.97	{3.4}	0.93	{3.3}	0.75	{2.7}
	0.04	2.0	{7.2}	1.9	{6.6}	1.6	{5.6}	1.4	{4.8}	1.3	{4.6}	1.0	{3.7}
SEV-1205BY	0.01	1.7	{6.0}	1.6	{5.5}	1.3	{4.7}	1.1	{4.0}	1.1	{3.9}	0.89	{3.1}
	0.015	2.1	{7.3}	1.9	{6.8}	1.6	{5.7}	1.4	{4.9}	1.3	{4.7}	1.1	{3.8}
	0.02	2.4	{8.4}	2.2	{7.8}	1.9	{6.6}	1.6	{5.7}	1.5	{5.4}	1.2	{4.4}
	0.04	3.4	{12}	3.1	{11}	2.6	{9.2}	2.2	{7.9}	2.2	{7.6}	1.7	{6.1}
SEV-1506BY	0.01	2.6	{9.3}	2.4	{8.6}	2.1	{7.2}	1.8	{6.2}	1.7	{6.0}	1.4	{4.9}
	0.015	3.2	{11}	3.0	{10}	2.5	{8.9}	2.2	{7.6}	2.1	{7.3}	1.7	{5.9}
	0.02	3.7	{13}	3.4	{12}	2.9	{10}	2.5	{8.8}	2.4	{8.4}	1.9	{6.8}
	0.04	5.2	{18}	4.8	{17}	4.1	{14}	3.5	{12}	3.3	{12}	2.7	{9.5}
SEV-303DY	0.01	0.15	{0.52}	0.14	{0.48}	0.11	{0.40}	0.099	{0.35}	0.095	{0.33}	0.077	{0.27}
	0.015	0.18	{0.63}	0.17	{0.58}	0.14	{0.49}	0.12	{0.42}	0.12	{0.41}	0.094	{0.33}
	0.02	0.21	{0.73}	0.19	{0.67}	0.16	{0.57}	0.14	{0.49}	0.13	{0.47}	0.11	{0.38}
	0.04	0.29	{1.0}	0.27	{0.94}	0.23	{0.79}	0.19	{0.68}	0.19	{0.65}	0.15	{0.53}
SEV-502DY	0.01	0.31	{1.1}	0.29	{1.0}	0.24	{0.85}	0.21	{0.74}	0.20	{0.71}	0.16	{0.57}
	0.015	0.38	{1.3}	0.35	{1.2}	0.30	{1.0}	0.26	{0.90}	0.25	{0.86}	0.20	{0.70}
	0.02	0.44	{1.5}	0.40	{1.4}	0.34	{1.2}	0.29	{1.0}	0.28	{1.0}	0.23	{0.80}
	0.04	0.62	{2.2}	0.57	{2.0}	0.48	{1.7}	0.41	{1.4}	0.39	{1.4}	0.32	{1.1}
SEV-603DY	0.01	0.49	{1.7}	0.45	{1.6}	0.38	{1.3}	0.33	{1.2}	0.31	{1.1}	0.26	{0.90}
	0.015	0.60	{2.1}	0.55	{1.9}	0.46	{1.6}	0.40	{1.4}	0.38	{1.4}	0.31	{1.1}
	0.02	0.69	{2.4}	0.63	{2.2}	0.54	{1.9}	0.46	{1.6}	0.44	{1.6}	0.36	{1.3}
	0.04	0.97	{3.4}	0.89	{3.1}	0.75	{2.6}	0.64	{2.3}	0.62	{2.2}	0.50	{1.7}
SEV-604DY	0.01	0.49	{1.7}	0.45	{1.6}	0.38	{1.3}	0.33	{1.2}	0.31	{1.1}	0.26	{0.9}
	0.015	0.60	{2.1}	0.55	{1.9}	0.46	{1.6}	0.40	{1.4}	0.38	{1.4}	0.31	{1.1}
	0.02	0.69	{2.4}	0.63	{2.2}	0.54	{1.9}	0.46	{1.6}	0.44	{1.6}	0.36	{1.3}
	0.04	0.97	{3.4}	0.89	{3.1}	0.75	{2.6}	0.64	{2.3}	0.62	{2.2}	0.50	{1.7}
SEV-1004DY	0.01	1.2	{4.1}	1.1	{3.8}	0.92	{3.2}	0.79	{2.8}	0.76	{2.7}	0.62	{2.2}
	0.015	1.4	{5.1}	1.3	{4.7}	1.1	{3.9}	0.96	{3.4}	0.93	{3.3}	0.75	{2.6}
	0.02	1.7	{5.8}	1.5	{5.4}	1.3	{4.5}	1.1	{3.9}	1.1	{3.7}	0.86	{3.0}
	0.04	2.3	{8.2}	2.1	{7.5}	1.8	{6.4}	1.5	{5.4}	1.5	{5.2}	1.2	{4.2}
SEV-1005DY	0.01	1.2	{4.1}	1.1	{3.8}	0.92	{3.2}	0.79	{2.8}	0.76	{2.7}	0.62	{2.2}
	0.015	1.4	{5.1}	1.3	{4.7}	1.1	{3.9}	0.96	{3.4}	0.93	{3.3}	0.75	{2.6}
	0.02	1.7	{5.8}	1.5	{5.4}	1.3	{4.5}	1.1	{3.9}	1.1	{3.7}	0.86	{3.0}
	0.04	2.3	{8.2}	2.1	{7.5}	1.8	{6.4}	1.5	{5.4}	1.5	{5.2}	1.20	{4.2}
SEV-1205DY	0.01	2.1	{7.2}	1.9	{6.7}	1.6	{5.6}	1.4	{4.9}	1.3	{4.7}	1.1	{3.8}
	0.015	2.5	{8.8}	2.3	{8.2}	2.0	{6.9}	1.7	{5.9}	1.6	{5.7}	1.3	{4.6}
	0.02	2.9	{10}	2.7	{9.4}	2.3	{7.9}	1.9	{6.8}	1.9	{6.6}	1.5	{5.3}
	0.04	4.1	{14}	3.8	{13}	3.2	{11}	2.7	{9.5}	2.6	{9.2}	2.1	{7.4}
SEV-1506DY	0.01	3.1	{11}	2.9	{10}	2.4	{8.5}	2.1	{7.4}	2.0	{7.1}	1.6	{5.7}
	0.015	3.8	{13}	3.5	{12}	3.0	{10}	2.6	{9.0}	2.5	{8.6}	2.0	{7.0}
	0.02	4.4	{15}	4.0	{14}	3.4	{12}	2.9	{10}	2.8	{9.9}	2.3	{8.0}
	0.04	6.2	{22}	5.7	{20}	4.8	{17}	4.1	{14}	3.9	{14}	3.2	{11}
SEV-1507DY	0.01	3.1	{11}	2.9	{10}	2.4	{8.5}	2.1	{7.4}	2.0	{7.1}	1.6	{5.7}
	0.015	3.8	{13}	3.5	{12}	3.0	{10}	2.6	{9.0}	2.5	{8.6}	2.0	{7.0}
	0.02	4.4	{15}	4.0	{14}	3.4	{12}	2.9	{10}	2.8	{9.9}	2.3	{8.0}
	0.04	6.2	{22}	5.7	{20}	4.8	{17}	4.1	{14}	3.9	{14}	3.2	{11}

Suction line Capacity

CT. 38°C , Superheat at valve inlet 0K

Catalog No.	Pressure Drop (MPa)	Capacity (U.S.R.T. {kw})							
		R448A							
		Evaporating Temp. (°C)							
		5	0	-10	-20	-30	-40		
SEV-303BY	0.01	0.12 {0.41}	0.11 {0.37}	0.087 {0.31}	0.070 {0.25}	0.055 {0.19}	0.042 {0.15}		
	0.015	0.14 {0.50}	0.13 {0.46}	0.11 {0.37}	0.086 {0.30}	0.067 {0.24}	0.051 {0.18}		
	0.02	0.16 {0.58}	0.15 {0.53}	0.12 {0.43}	0.098 {0.35}	0.077 {0.27}	0.058 {0.20}		
	0.04	0.23 {0.81}	0.21 {0.74}	0.17 {0.60}	0.14 {0.48}	0.11 {0.37}	0.078 {0.27}		
SEV-502BY	0.01	0.24 {0.83}	0.22 {0.76}	0.18 {0.63}	0.14 {0.50}	0.11 {0.40}	0.086 {0.30}		
	0.015	0.29 {1.0}	0.26 {0.93}	0.22 {0.76}	0.17 {0.61}	0.14 {0.48}	0.10 {0.37}		
	0.02	0.33 {1.2}	0.30 {1.1}	0.25 {0.88}	0.20 {0.71}	0.16 {0.55}	0.12 {0.42}		
	0.04	0.47 {1.6}	0.43 {1.5}	0.35 {1.2}	0.28 {1.0}	0.21 {0.75}	0.16 {0.56}		
SEV-603BY	0.01	0.37 {1.3}	0.34 {1.2}	0.28 {1.0}	0.22 {0.8}	0.18 {0.62}	0.14 {0.48}		
	0.015	0.46 {1.6}	0.42 {1.5}	0.34 {1.2}	0.27 {1.0}	0.21 {0.76}	0.16 {0.58}		
	0.02	0.52 {1.8}	0.48 {1.7}	0.39 {1.4}	0.31 {1.1}	0.25 {0.87}	0.19 {0.65}		
	0.04	0.74 {2.6}	0.67 {2.4}	0.55 {1.9}	0.44 {1.5}	0.34 {1.2}	0.25 {0.87}		
SEV-1004BY	0.01	0.81 {2.9}	0.74 {2.6}	0.61 {2.1}	0.49 {1.7}	0.39 {1.4}	0.30 {1.0}		
	0.015	1.0 {3.5}	0.91 {3.2}	0.75 {2.6}	0.60 {2.1}	0.47 {1.7}	0.36 {1.3}		
	0.02	1.1 {4.0}	1.0 {3.7}	0.86 {3.0}	0.69 {2.4}	0.54 {1.9}	0.41 {1.4}		
	0.04	1.6 {5.7}	1.5 {5.2}	1.2 {4.2}	0.95 {3.4}	0.74 {2.6}	0.54 {1.9}		
SEV-1205BY	0.01	1.3 {4.7}	1.2 {4.3}	1.0 {3.6}	0.82 {2.9}	0.64 {2.3}	0.49 {1.7}		
	0.015	1.6 {5.8}	1.5 {5.3}	1.2 {4.3}	0.99 {3.5}	0.78 {2.7}	0.59 {2.1}		
	0.02	1.9 {6.7}	1.7 {6.1}	1.4 {5.0}	1.1 {4.0}	0.89 {3.1}	0.68 {2.4}		
	0.04	2.7 {9.4}	2.4 {8.5}	2.0 {7.0}	1.6 {5.6}	1.2 {4.3}	0.90 {3.2}		
SEV-1506BY	0.01	2.1 {7.4}	1.9 {6.7}	1.6 {5.5}	1.3 {4.4}	1.0 {3.5}	0.76 {2.7}		
	0.015	2.6 {9.0}	2.3 {8.2}	1.9 {6.7}	1.5 {5.4}	1.2 {4.3}	0.92 {3.2}		
	0.02	2.9 {10}	2.7 {9.5}	2.2 {7.8}	1.8 {6.2}	1.4 {4.9}	1.0 {3.7}		
	0.04	4.1 {15}	3.8 {13}	3.1 {11}	2.4 {8.6}	1.9 {6.7}	1.4 {4.9}		
SEV-303DY	0.01	0.12 {0.41}	0.11 {0.37}	0.087 {0.31}	0.070 {0.25}	0.055 {0.19}	0.042 {0.15}		
	0.015	0.14 {0.50}	0.13 {0.46}	0.11 {0.37}	0.086 {0.30}	0.067 {0.24}	0.051 {0.18}		
	0.02	0.16 {0.58}	0.15 {0.53}	0.12 {0.43}	0.098 {0.35}	0.077 {0.27}	0.058 {0.20}		
	0.04	0.23 {0.81}	0.21 {0.74}	0.17 {0.60}	0.14 {0.48}	0.11 {0.37}	0.078 {0.27}		
SEV-502DY	0.01	0.25 {0.87}	0.23 {0.79}	0.19 {0.65}	0.15 {0.52}	0.12 {0.41}	0.09 {0.32}		
	0.015	0.30 {1.1}	0.28 {1.0}	0.23 {0.79}	0.18 {0.64}	0.14 {0.50}	0.11 {0.38}		
	0.02	0.35 {1.2}	0.32 {1.1}	0.26 {0.91}	0.21 {0.73}	0.16 {0.57}	0.12 {0.43}		
	0.04	0.49 {1.7}	0.44 {1.6}	0.36 {1.3}	0.29 {1.0}	0.22 {0.78}	0.16 {0.58}		
SEV-603DY	0.01	0.39 {1.4}	0.35 {1.2}	0.29 {1.0}	0.23 {0.82}	0.18 {0.65}	0.14 {0.49}		
	0.015	0.47 {1.7}	0.43 {1.5}	0.35 {1.2}	0.28 {1.0}	0.22 {0.78}	0.17 {0.60}		
	0.02	0.54 {1.9}	0.50 {1.7}	0.41 {1.4}	0.33 {1.1}	0.26 {0.90}	0.19 {0.68}		
	0.04	0.76 {2.7}	0.69 {2.4}	0.57 {2.0}	0.45 {1.6}	0.35 {1.2}	0.26 {0.91}		
SEV-604DY	0.01	0.39 {1.4}	0.35 {1.2}	0.29 {1.0}	0.23 {0.82}	0.18 {0.65}	0.14 {0.49}		
	0.015	0.47 {1.7}	0.43 {1.5}	0.35 {1.2}	0.28 {1.0}	0.22 {0.78}	0.17 {0.60}		
	0.02	0.54 {1.9}	0.50 {1.7}	0.41 {1.4}	0.33 {1.1}	0.26 {0.90}	0.19 {0.68}		
	0.04	0.76 {2.7}	0.69 {2.4}	0.57 {2.0}	0.45 {1.6}	0.35 {1.2}	0.26 {0.91}		
SEV-1004DY	0.01	0.93 {3.3}	0.85 {3.0}	0.70 {2.5}	0.56 {2.0}	0.44 {1.6}	0.34 {1.2}		
	0.015	1.1 {4.0}	1.0 {3.7}	0.85 {3.0}	0.69 {2.4}	0.54 {1.9}	0.41 {1.4}		
	0.02	1.3 {4.6}	1.2 {4.2}	0.98 {3.4}	0.79 {2.8}	0.62 {2.2}	0.47 {1.6}		
	0.04	1.8 {6.5}	1.7 {5.9}	1.37 {4.8}	1.1 {3.8}	0.84 {3.0}	0.62 {2.2}		
SEV-1005DY	0.01	0.93 {3.3}	0.85 {3.0}	0.70 {2.5}	0.56 {2.0}	0.44 {1.6}	0.34 {1.2}		
	0.015	1.1 {4.0}	1.0 {3.7}	0.85 {3.0}	0.69 {2.4}	0.54 {1.9}	0.41 {1.4}		
	0.02	1.3 {4.6}	1.2 {4.2}	0.98 {3.4}	0.79 {2.8}	0.62 {2.2}	0.47 {1.6}		
	0.04	1.8 {6.5}	1.7 {5.9}	1.4 {4.8}	1.1 {3.8}	0.84 {3.0}	0.62 {2.2}		
SEV-1205DY	0.01	1.6 {5.7}	1.5 {5.2}	1.2 {4.3}	0.98 {3.5}	0.77 {2.7}	0.59 {2.1}		
	0.015	2.0 {7.0}	1.8 {6.4}	1.5 {5.2}	1.2 {4.2}	0.94 {3.3}	0.72 {2.5}		
	0.02	2.3 {8.1}	2.1 {7.4}	1.7 {6.0}	1.4 {4.8}	1.1 {3.8}	0.81 {2.9}		
	0.04	3.2 {11}	2.9 {10}	2.4 {8.4}	1.9 {6.7}	1.5 {5.2}	1.1 {3.8}		
SEV-1506DY	0.01	2.5 {8.7}	2.3 {7.9}	1.9 {6.5}	1.5 {5.2}	1.2 {4.1}	0.90 {3.2}		
	0.015	3.0 {11}	2.8 {9.7}	2.3 {7.9}	1.8 {6.4}	1.4 {5.0}	1.1 {3.8}		
	0.02	3.5 {12}	3.2 {11}	2.6 {9.1}	2.1 {7.3}	1.6 {5.7}	1.2 {4.3}		
	0.04	4.9 {17}	4.4 {16}	3.6 {13}	2.9 {10}	2.2 {7.8}	1.6 {5.8}		
SEV-1507DY	0.01	2.5 {8.7}	2.3 {7.9}	1.9 {6.5}	1.5 {5.2}	1.2 {4.1}	0.90 {3.2}		
	0.015	3.0 {11}	2.8 {9.7}	2.3 {7.9}	1.8 {6.4}	1.4 {5.0}	1.1 {3.8}		
	0.02	3.5 {12}	3.2 {11}	2.6 {9.1}	2.1 {7.3}	1.6 {5.7}	1.2 {4.3}		
	0.04	4.9 {17}	4.4 {16}	3.6 {13}	2.9 {10}	2.2 {7.8}	1.6 {5.8}		

Suction line Capacity

CT. 38°C , Superheat at valve inlet 0K

Catalog No.	Pressure Drop (MPa)	Capacity (U.S.R.T. {kw})							
		R449A							
		Evaporating Temp. (°C)							
		5	0	-10	-20	-30	-40		
SEV-303BY	0.01	0.12 {0.41}	0.11 {0.37}	0.086 {0.30}	0.070 {0.24}	0.055 {0.19}	0.042 {0.15}		
	0.015	0.14 {0.50}	0.13 {0.45}	0.11 {0.37}	0.085 {0.30}	0.067 {0.23}	0.051 {0.18}		
	0.02	0.16 {0.57}	0.15 {0.52}	0.12 {0.43}	0.10 {0.34}	0.076 {0.27}	0.058 {0.20}		
	0.04	0.23 {0.80}	0.21 {0.73}	0.17 {0.60}	0.13 {0.47}	0.10 {0.37}	0.077 {0.27}		
SEV-502BY	0.01	0.24 {0.83}	0.21 {0.76}	0.18 {0.62}	0.14 {0.50}	0.11 {0.39}	0.085 {0.30}		
	0.015	0.29 {1.0}	0.26 {0.92}	0.22 {0.76}	0.17 {0.61}	0.14 {0.48}	0.10 {0.36}		
	0.02	0.33 {1.2}	0.30 {1.1}	0.25 {0.87}	0.20 {0.70}	0.16 {0.55}	0.12 {0.41}		
	0.04	0.46 {1.6}	0.42 {1.5}	0.35 {1.2}	0.28 {1.0}	0.21 {0.75}	0.16 {0.55}		
SEV-603BY	0.01	0.37 {1.3}	0.34 {1.2}	0.28 {1.0}	0.22 {0.78}	0.18 {0.62}	0.13 {0.47}		
	0.015	0.45 {1.6}	0.41 {1.4}	0.34 {1.2}	0.27 {1.0}	0.21 {0.75}	0.16 {0.57}		
	0.02	0.52 {1.8}	0.47 {1.7}	0.39 {1.4}	0.31 {1.1}	0.24 {0.86}	0.18 {0.65}		
	0.04	0.73 {2.6}	0.66 {2.3}	0.54 {1.9}	0.43 {1.5}	0.33 {1.2}	0.25 {0.87}		
SEV-1004BY	0.01	0.81 {2.8}	0.74 {2.6}	0.61 {2.1}	0.49 {1.7}	0.38 {1.3}	0.29 {1.0}		
	0.015	0.99 {3.5}	0.90 {3.2}	0.74 {2.6}	0.59 {2.1}	0.47 {1.6}	0.35 {1.2}		
	0.02	1.1 {4.0}	1.0 {3.6}	0.85 {3.0}	0.68 {2.4}	0.53 {1.9}	0.40 {1.4}		
	0.04	1.6 {5.6}	1.5 {5.1}	1.2 {4.2}	0.94 {3.3}	0.73 {2.6}	0.54 {1.9}		
SEV-1205BY	0.01	1.3 {4.7}	1.2 {4.3}	1.0 {3.5}	0.81 {2.8}	0.64 {2.2}	0.49 {1.7}		
	0.015	1.6 {5.8}	1.5 {5.2}	1.2 {4.3}	0.98 {3.5}	0.77 {2.7}	0.59 {2.1}		
	0.02	1.9 {6.6}	1.7 {6.0}	1.4 {5.0}	1.1 {4.0}	0.88 {3.1}	0.67 {2.4}		
	0.04	2.6 {9.3}	2.4 {8.5}	2.0 {6.9}	1.6 {5.5}	1.2 {4.2}	0.89 {3.1}		
SEV-1506BY	0.01	2.1 {7.3}	1.9 {6.7}	1.6 {5.5}	1.3 {4.4}	0.99 {3.5}	0.75 {2.7}		
	0.015	2.5 {8.9}	2.3 {8.1}	1.9 {6.7}	1.5 {5.4}	1.2 {4.2}	0.91 {3.2}		
	0.02	2.9 {10}	2.7 {9.4}	2.2 {7.7}	1.8 {6.2}	1.4 {4.8}	1.0 {3.7}		
	0.04	4.1 {14}	3.7 {13}	3.0 {11}	2.4 {8.5}	1.9 {6.6}	1.4 {4.9}		
SEV-303DY	0.01	0.12 {0.41}	0.11 {0.37}	0.086 {0.30}	0.070 {0.24}	0.055 {0.19}	0.042 {0.15}		
	0.015	0.14 {0.50}	0.13 {0.45}	0.11 {0.37}	0.085 {0.30}	0.067 {0.23}	0.051 {0.18}		
	0.02	0.16 {0.57}	0.15 {0.52}	0.12 {0.43}	0.097 {0.34}	0.076 {0.27}	0.058 {0.20}		
	0.04	0.23 {0.80}	0.21 {0.73}	0.17 {0.60}	0.13 {0.47}	0.10 {0.37}	0.077 {0.27}		
SEV-502DY	0.01	0.24 {0.86}	0.22 {0.78}	0.18 {0.64}	0.15 {0.52}	0.12 {0.41}	0.089 {0.31}		
	0.015	0.30 {1.1}	0.27 {1.0}	0.22 {0.79}	0.18 {0.63}	0.14 {0.50}	0.11 {0.38}		
	0.02	0.34 {1.2}	0.31 {1.1}	0.26 {0.91}	0.21 {0.73}	0.16 {0.57}	0.12 {0.43}		
	0.04	0.48 {1.7}	0.44 {1.5}	0.36 {1.3}	0.29 {1.0}	0.22 {0.78}	0.16 {0.57}		
SEV-603DY	0.01	0.38 {1.3}	0.35 {1.2}	0.29 {1.0}	0.23 {0.81}	0.18 {0.64}	0.14 {0.49}		
	0.015	0.47 {1.6}	0.43 {1.5}	0.35 {1.2}	0.28 {1.0}	0.22 {0.78}	0.17 {0.59}		
	0.02	0.54 {1.9}	0.49 {1.7}	0.40 {1.4}	0.32 {1.1}	0.25 {0.89}	0.19 {0.67}		
	0.04	0.76 {2.7}	0.69 {2.4}	0.56 {2.0}	0.45 {1.6}	0.35 {1.2}	0.26 {0.90}		
SEV-604DY	0.01	0.38 {1.3}	0.35 {1.2}	0.29 {1.0}	0.23 {0.81}	0.18 {0.64}	0.14 {0.49}		
	0.015	0.47 {1.6}	0.43 {1.5}	0.35 {1.2}	0.28 {1.0}	0.22 {0.78}	0.17 {0.59}		
	0.02	0.54 {1.9}	0.49 {1.7}	0.40 {1.4}	0.32 {1.1}	0.25 {0.89}	0.19 {0.67}		
	0.04	0.76 {2.7}	0.69 {2.4}	0.56 {2.0}	0.45 {1.6}	0.35 {1.2}	0.26 {0.90}		
SEV-1004DY	0.01	0.92 {3.2}	0.84 {3.0}	0.69 {2.4}	0.56 {2.0}	0.44 {1.5}	0.34 {1.2}		
	0.015	1.1 {4.0}	1.0 {3.6}	0.84 {3.0}	0.68 {2.4}	0.53 {1.9}	0.40 {1.4}		
	0.02	1.3 {4.6}	1.2 {4.2}	0.97 {3.4}	0.78 {2.7}	0.61 {2.1}	0.46 {1.6}		
	0.04	1.8 {6.4}	1.7 {5.8}	1.4 {4.8}	1.1 {3.8}	0.83 {2.9}	0.62 {2.2}		
SEV-1005DY	0.01	0.92 {3.2}	0.84 {3.0}	0.69 {2.4}	0.56 {2.0}	0.44 {1.5}	0.34 {1.2}		
	0.015	1.1 {4.0}	1.0 {3.6}	0.84 {3.0}	0.68 {2.4}	0.53 {1.9}	0.40 {1.4}		
	0.02	1.3 {4.6}	1.2 {4.2}	0.97 {3.4}	0.78 {2.7}	0.61 {2.1}	0.46 {1.6}		
	0.04	1.8 {6.4}	1.7 {5.8}	1.4 {4.8}	1.1 {3.8}	0.83 {2.9}	0.62 {2.2}		
SEV-1205DY	0.01	1.6 {5.7}	1.5 {5.2}	1.2 {4.3}	0.98 {3.4}	0.77 {2.7}	0.59 {2.1}		
	0.015	2.0 {6.9}	1.8 {6.3}	1.5 {5.2}	1.2 {4.2}	0.93 {3.3}	0.71 {2.5}		
	0.02	2.3 {8.0}	2.1 {7.3}	1.7 {6.0}	1.4 {4.8}	1.1 {3.8}	0.81 {2.8}		
	0.04	3.2 {11}	2.9 {10}	2.4 {8.3}	1.9 {6.6}	1.5 {5.1}	1.1 {3.8}		
SEV-1506DY	0.01	2.4 {8.6}	2.2 {7.8}	1.8 {6.4}	1.5 {5.2}	1.2 {4.1}	0.89 {3.1}		
	0.015	3.0 {11}	2.7 {9.6}	2.2 {7.9}	1.8 {6.3}	1.4 {5.0}	1.1 {3.8}		
	0.02	3.4 {12}	3.1 {11}	2.6 {9.1}	2.1 {7.3}	1.6 {5.7}	1.2 {4.3}		
	0.04	4.8 {17}	4.4 {15}	3.6 {13}	2.9 {10}	2.2 {7.8}	1.6 {5.7}		
SEV-1507DY	0.01	2.4 {8.6}	2.2 {7.8}	1.8 {6.4}	1.5 {5.2}	1.2 {4.1}	0.89 {3.1}		
	0.015	3.0 {11}	2.7 {9.6}	2.2 {7.9}	1.8 {6.3}	1.4 {5.0}	1.1 {3.8}		
	0.02	3.4 {12}	3.1 {11}	2.6 {9.1}	2.1 {7.3}	1.6 {5.7}	1.2 {4.3}		
	0.04	4.8 {17}	4.4 {15}	3.6 {13}	2.9 {10}	2.2 {7.8}	1.6 {5.7}		

Suction line Capacity

CT. 38°C , Superheat at valve inlet 0K

Catalog No.	Pressure Drop (MPa)	Capacity (U.S.R.T. {kw})							
		R407H							
		Evaporating Temp. (°C)							
		5	0	-10	-20	-30	-40		
SEV-303BY	0.01	0.13 {0.45}	0.12 {0.41}	0.10 {0.34}	0.077 {0.27}	0.060 {0.21}	0.046 {0.16}		
	0.015	0.15 {0.54}	0.14 {0.50}	0.12 {0.41}	0.094 {0.33}	0.073 {0.26}	0.056 {0.20}		
	0.02	0.18 {0.63}	0.16 {0.57}	0.13 {0.47}	0.11 {0.38}	0.084 {0.30}	0.063 {0.22}		
	0.04	0.25 {0.88}	0.23 {0.80}	0.19 {0.65}	0.15 {0.52}	0.11 {0.40}	0.084 {0.30}		
SEV-502BY	0.01	0.26 {0.91}	0.24 {0.83}	0.19 {0.68}	0.16 {0.55}	0.12 {0.43}	0.094 {0.33}		
	0.015	0.32 {1.1}	0.29 {1.0}	0.24 {0.83}	0.19 {0.67}	0.15 {0.53}	0.11 {0.40}		
	0.02	0.36 {1.3}	0.33 {1.2}	0.27 {1.0}	0.22 {0.77}	0.17 {0.60}	0.13 {0.46}		
	0.04	0.51 {1.8}	0.46 {1.6}	0.38 {1.3}	0.30 {1.1}	0.23 {0.82}	0.17 {0.60}		
SEV-603BY	0.01	0.41 {1.4}	0.37 {1.3}	0.30 {1.1}	0.25 {0.86}	0.19 {0.68}	0.15 {0.52}		
	0.015	0.50 {1.7}	0.45 {1.6}	0.37 {1.3}	0.30 {1.1}	0.23 {0.83}	0.18 {0.63}		
	0.02	0.57 {2.0}	0.52 {1.8}	0.43 {1.5}	0.34 {1.2}	0.27 {0.95}	0.20 {0.71}		
	0.04	0.80 {2.8}	0.73 {2.6}	0.60 {2.1}	0.47 {1.7}	0.37 {1.3}	0.27 {0.95}		
SEV-1004BY	0.01	0.89 {3.1}	0.81 {2.8}	0.67 {2.3}	0.54 {1.9}	0.42 {1.5}	0.32 {1.1}		
	0.015	1.1 {3.8}	0.99 {3.5}	0.81 {2.9}	0.65 {2.3}	0.51 {1.8}	0.39 {1.4}		
	0.02	1.2 {4.4}	1.1 {4.0}	0.94 {3.3}	0.75 {2.6}	0.59 {2.1}	0.44 {1.6}		
	0.04	1.8 {6.2}	1.6 {5.6}	1.3 {4.6}	1.0 {3.7}	0.80 {2.8}	0.59 {2.1}		
SEV-1205BY	0.01	1.5 {5.2}	1.3 {4.7}	1.1 {3.9}	0.89 {3.1}	0.70 {2.5}	0.54 {1.9}		
	0.015	1.8 {6.3}	1.6 {5.8}	1.3 {4.7}	1.1 {3.8}	0.85 {3.0}	0.65 {2.3}		
	0.02	2.1 {7.3}	1.9 {6.6}	1.6 {5.5}	1.2 {4.4}	0.97 {3.4}	0.74 {2.6}		
	0.04	2.9 {10}	2.6 {9.3}	2.2 {7.6}	1.7 {6.1}	1.3 {4.7}	0.97 {3.4}		
SEV-1506BY	0.01	2.3 {8.0}	2.1 {7.3}	1.7 {6.0}	1.4 {4.9}	1.1 {3.8}	0.83 {2.9}		
	0.015	2.8 {9.8}	2.5 {8.9}	2.1 {7.4}	1.7 {5.9}	1.3 {4.6}	1.0 {3.5}		
	0.02	3.2 {11}	2.9 {10}	2.4 {8.5}	1.9 {6.8}	1.5 {5.3}	1.1 {4.0}		
	0.04	4.5 {16}	4.1 {14}	3.3 {12}	2.7 {9.4}	2.1 {7.2}	1.5 {5.3}		
SEV-303DY	0.01	0.13 {0.45}	0.12 {0.41}	0.095 {0.34}	0.077 {0.27}	0.060 {0.21}	0.046 {0.16}		
	0.015	0.15 {0.54}	0.14 {0.50}	0.12 {0.41}	0.094 {0.33}	0.073 {0.26}	0.056 {0.20}		
	0.02	0.18 {0.63}	0.16 {0.57}	0.13 {0.47}	0.11 {0.38}	0.084 {0.30}	0.063 {0.22}		
	0.04	0.25 {0.88}	0.23 {0.80}	0.19 {0.65}	0.15 {0.52}	0.11 {0.40}	0.084 {0.30}		
SEV-502DY	0.01	0.27 {0.94}	0.25 {0.86}	0.20 {0.71}	0.16 {0.57}	0.13 {0.45}	0.098 {0.35}		
	0.015	0.33 {1.2}	0.30 {1.1}	0.25 {0.87}	0.20 {0.70}	0.16 {0.55}	0.12 {0.42}		
	0.02	0.38 {1.3}	0.35 {1.2}	0.28 {1.0}	0.23 {0.80}	0.18 {0.63}	0.13 {0.47}		
	0.04	0.53 {1.9}	0.48 {1.7}	0.39 {1.4}	0.31 {1.1}	0.24 {0.85}	0.18 {0.63}		
SEV-603DY	0.01	0.42 {1.5}	0.38 {1.4}	0.32 {1.1}	0.26 {0.90}	0.20 {0.71}	0.15 {0.54}		
	0.015	0.51 {1.8}	0.47 {1.7}	0.39 {1.4}	0.31 {1.1}	0.24 {0.86}	0.19 {0.65}		
	0.02	0.59 {2.1}	0.54 {1.9}	0.44 {1.6}	0.36 {1.3}	0.28 {1.0}	0.21 {0.74}		
	0.04	0.83 {2.9}	0.76 {2.7}	0.62 {2.2}	0.49 {1.7}	0.38 {1.3}	0.28 {1.0}		
SEV-604DY	0.01	0.42 {1.5}	0.38 {1.4}	0.32 {1.1}	0.26 {0.90}	0.20 {0.71}	0.15 {0.54}		
	0.015	0.51 {1.8}	0.47 {1.7}	0.39 {1.4}	0.31 {1.1}	0.24 {0.86}	0.19 {0.65}		
	0.02	0.59 {2.1}	0.54 {1.9}	0.44 {1.6}	0.36 {1.3}	0.28 {1.0}	0.21 {0.74}		
	0.04	0.83 {2.9}	0.76 {2.7}	0.62 {2.2}	0.49 {1.7}	0.38 {1.3}	0.28 {1.0}		
SEV-1004DY	0.01	1.0 {3.6}	0.93 {3.3}	0.76 {2.7}	0.61 {2.2}	0.48 {1.7}	0.37 {1.3}		
	0.015	1.2 {4.4}	1.1 {4.0}	0.93 {3.3}	0.75 {2.6}	0.59 {2.1}	0.45 {1.6}		
	0.02	1.4 {5.0}	1.3 {4.6}	1.1 {3.8}	0.86 {3.0}	0.67 {2.4}	0.51 {1.8}		
	0.04	2.0 {7.0}	1.8 {6.4}	1.5 {5.2}	1.2 {4.2}	0.91 {3.2}	0.67 {2.4}		
SEV-1005DY	0.01	1.0 {3.6}	0.93 {3.3}	0.76 {2.7}	0.61 {2.2}	0.48 {1.7}	0.37 {1.3}		
	0.015	1.2 {4.4}	1.1 {4.0}	0.93 {3.3}	0.75 {2.6}	0.59 {2.1}	0.45 {1.6}		
	0.02	1.4 {5.0}	1.3 {4.6}	1.1 {3.8}	0.86 {3.0}	0.67 {2.4}	0.51 {1.8}		
	0.04	2.0 {7.0}	1.8 {6.4}	1.5 {5.2}	1.2 {4.2}	0.91 {3.2}	0.67 {2.4}		
SEV-1205DY	0.01	1.8 {6.2}	1.6 {5.7}	1.3 {4.7}	1.1 {3.8}	0.85 {3.0}	0.65 {2.3}		
	0.015	2.2 {7.6}	2.0 {7.0}	1.6 {5.7}	1.3 {4.6}	1.0 {3.6}	0.78 {2.7}		
	0.02	2.5 {8.8}	2.3 {8.0}	1.9 {6.6}	1.5 {5.3}	1.2 {4.1}	0.89 {3.1}		
	0.04	3.5 {12}	3.2 {11}	2.6 {9.2}	2.1 {7.3}	1.6 {5.6}	1.2 {4.1}		
SEV-1506DY	0.01	2.7 {9.4}	2.5 {8.6}	2.0 {7.1}	1.6 {5.7}	1.3 {4.5}	0.98 {3.5}		
	0.015	3.3 {12}	3.0 {11}	2.5 {8.7}	2.0 {7.0}	1.6 {5.5}	1.2 {4.2}		
	0.02	3.8 {13}	3.5 {12}	2.8 {10}	2.3 {8.0}	1.8 {6.3}	1.3 {4.7}		
	0.04	5.3 {19}	4.8 {17}	3.9 {14}	3.1 {11}	2.4 {8.5}	1.8 {6.3}		
SEV-1507DY	0.01	2.7 {9.4}	2.5 {8.6}	2.0 {7.1}	1.6 {5.7}	1.3 {4.5}	0.98 {3.5}		
	0.015	3.3 {12}	3.0 {11}	2.5 {8.7}	2.0 {7.0}	1.6 {5.5}	1.2 {4.2}		
	0.02	3.8 {13}	3.5 {12}	2.8 {10}	2.3 {8.0}	1.8 {6.3}	1.3 {4.7}		
	0.04	5.3 {19}	4.8 {17}	3.9 {14}	3.1 {11}	2.4 {8.5}	1.8 {6.3}		

Suction line Capacity

CT. 38°C , Superheat at valve inlet 0K

Catalog No.	Pressure Drop (MPa)	Capacity (U.S.R.T. {kw})								
		R463A-J								
		Evaporating Temp. (°C)								
		5	0	-10	-20	-30	-40			
SEV-303BY	0.01	0.14 {0.48}	0.12 {0.44}	0.10 {0.37}	0.085 {0.30}	0.068 {0.24}	0.053 {0.19}			
	0.015	0.17 {0.58}	0.15 {0.54}	0.13 {0.45}	0.10 {0.36}	0.083 {0.29}	0.064 {0.23}			
	0.02	0.19 {0.67}	0.18 {0.62}	0.15 {0.51}	0.12 {0.42}	0.095 {0.33}	0.073 {0.26}			
	0.04	0.27 {0.95}	0.25 {0.87}	0.20 {0.72}	0.17 {0.58}	0.13 {0.46}	0.10 {0.35}			
SEV-502BY	0.01	0.28 {1.0}	0.25 {0.90}	0.21 {0.75}	0.17 {0.61}	0.14 {0.49}	0.11 {0.38}			
	0.015	0.34 {1.2}	0.31 {1.1}	0.26 {0.91}	0.21 {0.74}	0.17 {0.59}	0.13 {0.46}			
	0.02	0.39 {1.4}	0.36 {1.3}	0.30 {1.1}	0.24 {0.86}	0.19 {0.68}	0.15 {0.53}			
	0.04	0.55 {1.9}	0.50 {1.8}	0.42 {1.5}	0.34 {1.2}	0.27 {0.94}	0.20 {0.72}			
SEV-603BY	0.01	0.44 {1.5}	0.40 {1.4}	0.33 {1.2}	0.27 {1.0}	0.22 {0.76}	0.17 {0.60}			
	0.015	0.53 {1.9}	0.49 {1.7}	0.41 {1.4}	0.33 {1.2}	0.26 {0.93}	0.21 {0.72}			
	0.02	0.61 {2.2}	0.56 {2.0}	0.47 {1.6}	0.38 {1.3}	0.30 {1.1}	0.24 {0.83}			
	0.04	0.86 {3.0}	0.79 {2.8}	0.66 {2.3}	0.53 {1.9}	0.42 {1.5}	0.32 {1.1}			
SEV-1004BY	0.01	0.95 {3.3}	0.87 {3.1}	0.73 {2.6}	0.59 {2.1}	0.48 {1.7}	0.37 {1.3}			
	0.015	1.2 {4.1}	1.1 {3.8}	0.89 {3.1}	0.73 {2.6}	0.58 {2.0}	0.45 {1.6}			
	0.02	1.3 {4.7}	1.2 {4.3}	1.0 {3.6}	0.83 {2.9}	0.66 {2.3}	0.51 {1.8}			
	0.04	1.9 {6.6}	1.7 {6.1}	1.4 {5.0}	1.2 {4.1}	0.92 {3.2}	0.70 {2.5}			
SEV-1205BY	0.01	1.6 {5.5}	1.4 {5.1}	1.2 {4.2}	0.99 {3.5}	0.79 {2.8}	0.61 {2.2}			
	0.015	1.9 {6.8}	1.8 {6.2}	1.5 {5.2}	1.2 {4.2}	0.96 {3.4}	0.74 {2.6}			
	0.02	2.2 {7.8}	2.0 {7.2}	1.7 {6.0}	1.4 {4.9}	1.1 {3.9}	0.85 {3.0}			
	0.04	3.1 {11}	2.9 {10}	2.4 {8.4}	1.9 {6.8}	1.5 {5.4}	1.2 {4.1}			
SEV-1506BY	0.01	2.4 {8.6}	2.2 {7.9}	1.9 {6.6}	1.5 {5.4}	1.2 {4.3}	0.95 {3.3}			
	0.015	3.0 {11}	2.7 {9.7}	2.3 {8.0}	1.9 {6.6}	1.5 {5.2}	1.2 {4.1}			
	0.02	3.5 {12}	3.2 {11}	2.6 {9.3}	2.1 {7.6}	1.7 {6.0}	1.3 {4.6}			
	0.04	4.8 {17}	4.4 {16}	3.7 {13}	3.0 {11}	2.4 {8.3}	1.8 {6.3}			
SEV-303DY	0.01	0.14 {0.48}	0.12 {0.44}	0.10 {0.37}	0.085 {0.30}	0.068 {0.24}	0.053 {0.19}			
	0.015	0.17 {0.58}	0.15 {0.54}	0.13 {0.45}	0.10 {0.36}	0.083 {0.29}	0.064 {0.23}			
	0.02	0.19 {0.67}	0.18 {0.62}	0.15 {0.51}	0.12 {0.42}	0.095 {0.33}	0.073 {0.26}			
	0.04	0.27 {0.95}	0.25 {0.87}	0.20 {0.72}	0.17 {0.58}	0.13 {0.46}	0.10 {0.35}			
SEV-502DY	0.01	0.29 {1.0}	0.26 {0.93}	0.22 {0.78}	0.18 {0.63}	0.14 {0.51}	0.11 {0.39}			
	0.015	0.35 {1.2}	0.32 {1.1}	0.27 {0.95}	0.22 {0.77}	0.18 {0.62}	0.14 {0.48}			
	0.02	0.41 {1.4}	0.37 {1.3}	0.31 {1.1}	0.25 {0.89}	0.20 {0.71}	0.16 {0.55}			
	0.04	0.57 {2.0}	0.52 {1.8}	0.43 {1.5}	0.35 {1.2}	0.28 {1.0}	0.21 {0.74}			
SEV-603DY	0.01	0.45 {1.6}	0.41 {1.5}	0.35 {1.2}	0.28 {1.0}	0.23 {0.8}	0.18 {0.62}			
	0.015	0.55 {1.9}	0.51 {1.8}	0.42 {1.5}	0.34 {1.2}	0.27 {1.0}	0.21 {0.75}			
	0.02	0.64 {2.2}	0.58 {2.1}	0.49 {1.7}	0.40 {1.4}	0.32 {1.1}	0.24 {0.86}			
	0.04	0.89 {3.1}	0.82 {2.9}	0.68 {2.4}	0.55 {1.9}	0.44 {1.5}	0.33 {1.2}			
SEV-604DY	0.01	0.45 {1.6}	0.41 {1.5}	0.35 {1.2}	0.28 {1.0}	0.23 {0.8}	0.18 {0.62}			
	0.015	0.55 {1.9}	0.51 {1.8}	0.42 {1.5}	0.34 {1.2}	0.27 {1.0}	0.21 {0.75}			
	0.02	0.64 {2.2}	0.58 {2.1}	0.49 {1.7}	0.40 {1.4}	0.32 {1.1}	0.24 {0.86}			
	0.04	0.89 {3.1}	0.82 {2.9}	0.68 {2.4}	0.55 {1.9}	0.44 {1.5}	0.33 {1.2}			
SEV-1004DY	0.01	1.1 {3.8}	1.0 {3.5}	0.83 {2.9}	0.68 {2.4}	0.54 {1.9}	0.42 {1.5}			
	0.015	1.3 {4.7}	1.2 {4.3}	1.0 {3.6}	0.83 {2.9}	0.66 {2.3}	0.51 {1.8}			
	0.02	1.5 {5.4}	1.4 {5.0}	1.2 {4.1}	0.95 {3.4}	0.76 {2.7}	0.59 {2.1}			
	0.04	2.2 {7.6}	2.0 {7.0}	1.6 {5.8}	1.33 {4.7}	1.0 {3.7}	0.80 {2.8}			
SEV-1005DY	0.01	1.1 {3.8}	1.0 {3.5}	0.83 {2.9}	0.68 {2.4}	0.54 {1.9}	0.42 {1.5}			
	0.015	1.3 {4.7}	1.2 {4.3}	1.0 {3.6}	0.83 {2.9}	0.66 {2.3}	0.51 {1.8}			
	0.02	1.5 {5.4}	1.4 {5.0}	1.2 {4.1}	0.95 {3.4}	0.76 {2.7}	0.59 {2.1}			
	0.04	2.2 {7.6}	2.0 {7.0}	1.6 {5.8}	1.3 {4.7}	1.0 {3.7}	0.80 {2.8}			
SEV-1205DY	0.01	1.9 {6.7}	1.7 {6.1}	1.5 {5.1}	1.2 {4.2}	0.95 {3.3}	0.74 {2.6}			
	0.015	2.3 {8.2}	2.1 {7.5}	1.8 {6.3}	1.5 {5.1}	1.2 {4.1}	0.90 {3.2}			
	0.02	2.7 {9.4}	2.5 {8.7}	2.0 {7.2}	1.7 {5.9}	1.3 {4.7}	1.0 {3.6}			
	0.04	3.8 {13}	3.5 {12}	2.9 {10}	2.3 {8.2}	1.8 {6.5}	1.4 {4.9}			
SEV-1506DY	0.01	2.9 {10}	2.6 {9.3}	2.2 {7.8}	1.8 {6.3}	1.4 {5.1}	1.1 {3.9}			
	0.015	3.5 {12}	3.2 {11}	2.7 {9.5}	2.2 {7.7}	1.8 {6.2}	1.4 {4.8}			
	0.02	4.1 {14}	3.7 {13}	3.1 {11}	2.5 {8.9}	2.0 {7.1}	1.6 {5.5}			
	0.04	5.7 {20}	5.2 {18}	4.3 {15}	3.5 {12}	2.8 {9.8}	2.1 {7.4}			
SEV-1507DY	0.01	2.9 {10}	2.6 {9.3}	2.2 {7.8}	1.8 {6.3}	1.4 {5.1}	1.1 {3.9}			
	0.015	3.5 {12}	3.2 {11}	2.7 {9.5}	2.2 {7.7}	1.8 {6.2}	1.4 {4.8}			
	0.02	4.1 {14}	3.7 {13}	3.1 {11}	2.5 {8.9}	2.0 {7.1}	1.6 {5.5}			
	0.04	5.7 {20}	5.2 {18}	4.3 {15}	3.5 {12}	2.8 {9.8}	2.1 {7.4}			

Flow Rate

Hot Gas Defrost Line

CT. 38°C, hot Gas temperature at valve inlet 50°C

Catalog No.	Hot Gas Flow Rate (kg/h)															
	R134a				R404A				R407C				R410A			
	Pressure Drop (MPa)															
	0.05	0.10	0.15	0.30	0.05	0.10	0.15	0.30	0.05	0.10	0.15	0.30	0.05	0.10	0.15	0.30
SEV-303BY	28.6	39.9	48.2	65.2	37.7	52.9	64.2	88.8	32.5	45.6	55.3	76.1	37.6	52.8	64.3	89.4
SEV-502BY	58.4	81.4	98.3	133	76.8	108	131	181	66.3	93.0	113	155	76.6	108	131	182
SEV-603BY	91.5	128	154	209	120	169	206	284	104	146	177	243	120	169	206	286
SEV-1004BY	200	279	337	457	264	370	450	621	228	319	387	533	263	370	450	626
SEV-1205BY	332	463	559	757	437	613	745	1030	377	529	642	883	436	613	746	1037
SEV-1506BY	515	718	868	1174	678	951	1156	1598	585	820	996	1370	676	951	1158	1609
SEV-303DY	28.6	39.9	48.2	65.2	37.7	52.9	64.2	88.8	32.5	45.6	55.3	76.1	37.6	52.8	64.3	89.4
SEV-502DY	60.6	84.6	102	138	79.8	112	136	188	68.9	96.6	117	161	79.6	112	136	190
SEV-603DY	95.0	133	160	217	125	175	213	295	108	151	184	253	125	175	214	297
SEV-604DY	95.0	133	160	217	125	175	213	295	108	151	184	253	125	175	214	297
SEV-1004DY	229	319	386	522	301	423	514	710	260	365	443	609	300	422	515	715
SEV-1005DY	229	319	386	522	301	423	514	710	260	365	443	609	300	422	515	715
SEV-1205DY	400	559	675	913	527	740	899	1243	455	638	774	1065	526	739	900	1252
SEV-1506DY	606	846	1022	1383	798	1121	1362	1882	689	966	1173	1613	796	1120	1364	1896
SEV-1507DY	606	846	1022	1383	798	1121	1362	1882	689	966	1173	1613	796	1120	1364	1896

Catalog No.	Hot Gas Flow Rate (kg/h)															
	R448A				R449A				R407H				R463A-J			
	Pressure Drop (MPa)															
	0.05	0.10	0.15	0.30	0.05	0.10	0.15	0.30	0.05	0.10	0.15	0.30	0.05	0.10	0.15	0.30
SEV-303BY	33.8	47.4	57.6	79.4	34.0	47.7	57.9	79.9	31.8	44.6	54.1	74.5	36.3	51.0	62.1	86.1
SEV-502BY	71.7	101	122	168	69.4	97.3	118	163	64.9	90.9	110	152	74.0	104	127	176
SEV-603BY	112	157	191	264	109	153	185	256	102	143	173	239	116	163	199	276
SEV-1004BY	270	379	461	635	238	334	406	559	223	312	379	522	254	357	434	603
SEV-1205BY	473	664	806	1111	394	553	672	926	369	517	628	865	421	592	720	999
SEV-1506BY	717	1005	1221	1683	612	858	1043	1437	572	802	974	1342	653	918	1117	1550
SEV-303DY	33.8	47.4	57.6	79.4	34.0	47.7	57.9	79.9	31.8	44.6	54.1	74.5	36.3	51.0	62.1	86.1
SEV-502DY	71.7	101	122	168	72.1	101	123	169	67.4	94.5	115	158	76.9	108	132	183
SEV-603DY	112	157	191	264	113	158	192	265	106	148	180	247	120	169	206	286
SEV-604DY	112	157	191	264	113	158	192	265	106	148	180	247	120	169	206	286
SEV-1004DY	270	379	461	635	272	382	463	639	254	357	433	596	290	408	497	689
SEV-1005DY	270	379	461	635	272	382	463	639	254	357	433	596	290	408	497	689
SEV-1205DY	473	664	806	1111	476	668	811	1118	445	624	758	1044	508	714	869	1206
SEV-1506DY	717	1005	1221	1683	721	1011	1228	1693	674	945	1148	1580	769	1081	1316	1826
SEV-1507DY	717	1005	1221	1683	721	1011	1228	1693	674	945	1148	1580	769	1081	1316	1826

Capacity Table

Liquid line Capacity

CT. 38°C / ET. 5°C / SC. 0K

Catalog No.	Capacity (U.S.R.T. {kw})							
	R410A							
	Pressure Drop (MPa)							
	0.01		0.015		0.02		0.04	
RPV-302BYF	0.93	{3.3}	1.1	{4.0}	1.3	{4.6}	1.9	{6.6}
RPV-303BYF	1.1	{3.7}	1.3	{4.5}	1.5	{5.1}	2.1	{7.3}
RPV-602BYF	2.1	{7.3}	2.5	{8.9}	2.9	{10}	4.1	{14}
RPV-603BYF	3.0	{10}	3.9	{14}	4.3	{15}	6.2	{22}
RPV-804BYF	4.7	{17}	6.0	{21}	6.9	{24}	9.8	{34}
RPV-1004BYF	8.4	{30}	10	{36}	12	{42}	16	{58}
RPV-1205BYF	13	{44}	15	{54}	18	{62}	25	{88}
RPV-1606BYF	19	{68}	24	{84}	28	{97}	39	{137}
RPV-302DYF	0.93	{3.3}	1.1	{4.0}	1.3	{4.6}	1.9	{6.6}
RPV-303DYF	1.1	{3.7}	1.3	{4.5}	1.5	{5.1}	2.1	{7.3}
RPV-602DYF	2.1	{7.3}	2.5	{8.9}	2.9	{10}	4.1	{14}
RPV-603DYF	3.2	{11}	3.8	{13}	4.4	{15}	6.1	{22}
RPV-804DYF	5.0	{17}	5.8	{21}	6.7	{24}	9.6	{34}
RPV-1004DYF	8.2	{29}	10	{36}	12	{41}	17	{59}
RPV-1205DYF	13	{44}	15	{53}	18	{62}	25	{87}
RPV-1606DYF	19	{68}	24	{83}	27	{97}	39	{137}
RPV-1607DYF	19	{68}	24	{83}	27	{97}	39	{137}

Catalog No.	Capacity (U.S.R.T. {kw})							
	R463A-J							
	Pressure Drop (MPa)							
	0.01		0.015		0.02		0.04	
RPV-302BYF	0.91	{3.2}	1.1	{3.9}	1.3	{4.5}	1.8	{6.4}
RPV-303BYF	1.0	{3.6}	1.3	{4.4}	1.4	{5.0}	2.0	{7.1}
RPV-602BYF	2.0	{7.1}	2.5	{8.7}	2.8	{10}	4.0	{14}
RPV-603BYF	2.9	{10}	3.8	{14}	4.2	{15}	6.1	{21}
RPV-804BYF	4.6	{16}	5.8	{20}	6.7	{24}	9.5	{33}
RPV-1004BYF	8.2	{29}	9.9	{35}	12	{41}	16	{56}
RPV-1205BYF	12	{43}	15	{52}	17	{60}	24	{86}
RPV-1606BYF	19	{67}	23	{82}	27	{95}	38	{133}
RPV-302DYF	0.91	{3.2}	1.1	{3.9}	1.3	{4.5}	1.8	{6.4}
RPV-303DYF	1.0	{3.6}	1.3	{4.4}	1.4	{5.0}	2.0	{7.1}
RPV-602DYF	2.0	{7.1}	2.5	{8.7}	2.8	{10}	4.0	{14}
RPV-603DYF	3.1	{11}	3.7	{13}	4.3	{15}	6.0	{21}
RPV-804DYF	4.8	{17}	5.7	{20}	6.5	{23}	9.4	{33}
RPV-1004DYF	8.0	{28}	10	{35}	11	{40}	16	{57}
RPV-1205DYF	12	{43}	15	{52}	17	{60}	24	{85}
RPV-1606DYF	19	{66}	23	{81}	27	{94}	38	{133}
RPV-1607DYF	19	{66}	23	{81}	27	{94}	38	{133}

*Based on condensing temp. 38°C, evaporating temp. -5°C, sub-cooling 0°C. In case the conditions is different, the value is multiplied by the correction factor in the table.

Evaporating temperature correction factor

Evaporating Temp. (°C)	Correction factor	
	R410A	R463A-J
5	1	1
0	0.99	0.99
-10	0.97	0.96
-20	0.95	0.93
-30	0.92	0.90
-40	0.89	0.86

Subcooling correction factor

Subcooling (K)	Correction factor	
	R410A	R463A-J
0	1	1
10	1.14	1.14
20	1.27	1.28
30	1.41	1.41
40	1.53	1.54
50	1.66	1.67

Suction line Capacity

CT. 38°C , Superheat at valve inlet 0K

Catalog No.	Pressure drop across the valve (MPa)	Capacity (U.S.R.T. {kw})											
		R410A											
		Evaporating Temp. (°C)											
		5	0		-10		-20		-30		-40		
RPV-302BYF	0.01	0.16	{0.56}	0.15	{0.51}	0.12	{0.43}	0.10	{0.36}	0.082	{0.29}	0.065	{0.23}
	0.02	0.22	{0.79}	0.21	{0.73}	0.17	{0.61}	0.15	{0.51}	0.12	{0.41}	0.091	{0.32}
	0.04	0.31	{1.1}	0.28	{1.0}	0.24	{0.86}	0.20	{0.71}	0.16	{0.57}	0.13	{0.44}
RPV-303BYF	0.01	0.18	{0.62}	0.16	{0.57}	0.14	{0.48}	0.11	{0.40}	0.091	{0.32}	0.074	{0.26}
	0.02	0.25	{0.87}	0.23	{0.81}	0.19	{0.68}	0.16	{0.56}	0.13	{0.45}	0.10	{0.36}
	0.04	0.34	{1.2}	0.31	{1.1}	0.27	{0.95}	0.22	{0.78}	0.18	{0.63}	0.14	{0.49}
RPV-602BYF	0.01	0.34	{1.2}	0.31	{1.1}	0.28	{0.97}	0.23	{0.80}	0.18	{0.65}	0.15	{0.51}
	0.02	0.48	{1.7}	0.45	{1.6}	0.40	{1.4}	0.31	{1.1}	0.26	{0.91}	0.20	{0.72}
	0.04	0.71	{2.5}	0.65	{2.3}	0.54	{1.9}	0.45	{1.6}	0.37	{1.3}	0.28	{0.98}
RPV-603BYF	0.01	0.54	{1.9}	0.48	{1.7}	0.42	{1.5}	0.35	{1.2}	0.28	{0.98}	0.22	{0.78}
	0.02	0.74	{2.6}	0.67	{2.4}	0.58	{2.0}	0.48	{1.7}	0.38	{1.4}	0.31	{1.1}
	0.04	1.1	{3.7}	0.96	{3.4}	0.80	{2.8}	0.67	{2.4}	0.54	{1.9}	0.42	{1.5}
RPV-804BYF	0.01	0.83	{2.9}	0.77	{2.7}	0.64	{2.3}	0.52	{1.8}	0.43	{1.5}	0.34	{1.2}
	0.02	1.2	{4.1}	1.1	{3.8}	0.89	{3.1}	0.73	{2.6}	0.61	{2.2}	0.49	{1.7}
	0.04	1.6	{5.7}	1.5	{5.3}	1.3	{4.4}	1.0	{3.7}	0.83	{2.9}	0.64	{2.3}
RPV-1004BYF	0.01	1.4	{4.9}	1.3	{4.6}	1.1	{3.8}	0.92	{3.2}	0.75	{2.6}	0.58	{2.0}
	0.02	2.0	{7.0}	1.8	{6.5}	1.5	{5.4}	1.3	{4.4}	1.0	{3.6}	0.82	{2.9}
	0.04	2.8	{9.8}	2.6	{9.0}	2.2	{7.7}	1.8	{6.2}	1.4	{5.0}	1.1	{4.0}
RPV-1205BYF	0.01	2.1	{7.4}	1.9	{6.9}	1.7	{5.8}	1.4	{4.8}	1.1	{3.9}	0.89	{3.1}
	0.02	3.0	{10}	2.7	{9.6}	2.3	{8.1}	1.9	{6.7}	1.6	{5.5}	1.2	{4.3}
	0.04	4.3	{15}	4.0	{14}	3.3	{11}	2.7	{9.4}	2.1	{7.5}	1.7	{5.9}
RPV-1606BYF	0.01	3.3	{12}	3.0	{11}	2.6	{9.0}	2.1	{7.5}	1.7	{6.1}	1.4	{4.8}
	0.02	4.6	{16}	4.3	{15}	3.6	{13}	3.0	{11}	2.4	{8.5}	1.9	{6.7}
	0.04	6.6	{23}	6.0	{21}	5.0	{18}	4.3	{15}	3.3	{12}	2.6	{9.2}
RPV-302DYF	0.01	0.16	{0.57}	0.14	{0.51}	0.12	{0.44}	0.10	{0.35}	0.084	{0.30}	0.065	{0.23}
	0.02	0.22	{0.79}	0.21	{0.72}	0.18	{0.62}	0.14	{0.50}	0.12	{0.41}	0.093	{0.33}
	0.04	0.31	{1.1}	0.28	{1.0}	0.24	{0.86}	0.20	{0.71}	0.16	{0.57}	0.13	{0.45}
RPV-303DYF	0.01	0.18	{0.6}	0.16	{0.6}	0.14	{0.48}	0.11	{0.40}	0.094	{0.33}	0.072	{0.25}
	0.02	0.25	{0.9}	0.23	{0.8}	0.19	{0.69}	0.16	{0.56}	0.13	{0.45}	0.10	{0.36}
	0.04	0.34	{1.2}	0.31	{1.1}	0.27	{0.95}	0.22	{0.79}	0.18	{0.63}	0.14	{0.49}
RPV-602DYF	0.01	0.34	{1.2}	0.34	{1.2}	0.27	{0.96}	0.23	{0.80}	0.18	{0.65}	0.15	{0.52}
	0.02	0.49	{1.7}	0.46	{1.6}	0.38	{1.3}	0.32	{1.1}	0.26	{0.91}	0.21	{0.72}
	0.04	0.71	{2.5}	0.64	{2.3}	0.53	{1.9}	0.45	{1.6}	0.36	{1.3}	0.27	{0.94}
RPV-603DYF	0.01	0.53	{1.9}	0.49	{1.7}	0.41	{1.4}	0.35	{1.2}	0.28	{0.98}	0.22	{0.77}
	0.02	0.74	{2.6}	0.68	{2.4}	0.60	{2.1}	0.48	{1.7}	0.39	{1.4}	0.30	{1.1}
	0.04	1.1	{3.7}	0.95	{3.3}	0.81	{2.9}	0.67	{2.4}	0.55	{1.9}	0.44	{1.5}
RPV-804DYF	0.01	0.84	{2.9}	0.77	{2.7}	0.62	{2.2}	0.54	{1.9}	0.42	{1.5}	0.33	{1.1}
	0.02	1.2	{4.1}	1.1	{3.8}	0.91	{3.2}	0.73	{2.6}	0.61	{2.2}	0.46	{1.6}
	0.04	1.6	{5.8}	1.5	{5.3}	1.3	{4.4}	1.1	{3.7}	0.84	{3.0}	0.67	{2.4}
RPV-1004DYF	0.01	1.4	{5.0}	1.3	{4.5}	1.1	{3.8}	0.91	{3.2}	0.74	{2.6}	0.59	{2.1}
	0.02	2.0	{7.0}	1.8	{6.4}	1.5	{5.4}	1.3	{4.5}	1.0	{3.6}	0.83	{2.9}
	0.04	2.8	{10}	2.5	{9.0}	2.2	{7.6}	1.8	{6.3}	1.4	{5.0}	1.1	{4.0}
RPV-1205DYF	0.01	2.1	{7.5}	1.9	{6.8}	1.7	{5.8}	1.4	{4.8}	1.1	{3.9}	0.88	{3.1}
	0.02	3.0	{10}	2.7	{9.6}	2.3	{8.2}	1.9	{6.7}	1.5	{5.4}	1.2	{4.3}
	0.04	4.3	{15}	4.0	{14}	3.1	{11}	2.7	{9.5}	2.1	{7.5}	1.7	{6.0}
RPV-1606DYF	0.01	3.4	{12}	3.0	{11}	2.6	{9.0}	2.1	{7.4}	1.7	{6.1}	1.4	{4.8}
	0.02	4.6	{16}	4.3	{15}	3.8	{13}	3.0	{10}	2.4	{8.5}	1.9	{6.8}
	0.04	6.5	{23}	5.8	{21}	5.0	{18}	4.2	{15}	3.2	{11}	2.6	{9.3}
RPV-1607DYF	0.01	3.4	{12}	3.0	{11}	2.6	{9.0}	2.1	{7.4}	1.7	{6.1}	1.4	{4.8}
	0.02	4.6	{16}	4.3	{15}	3.8	{13}	3.0	{10}	2.4	{8.5}	1.9	{6.8}
	0.04	6.5	{23}	5.8	{21}	5.0	{18}	4.2	{15}	3.2	{11}	2.6	{9.3}

Suction line Capacity

CT. 38℃ , Superheat at valve inlet 0K

Catalog No.	Pressure drop across the valve (MPa)	Capacity (U.S.R.T. {kw})											
		R463A-J											
		Evaporating Temp. (℃)											
		5	0		-10		-20		-30		-40		
RPV-302BYF	0.01	0.15	{0.52}	0.13	{0.47}	0.11	{0.40}	0.091	{0.32}	0.074	{0.26}	0.057	{0.20}
	0.02	0.21	{0.73}	0.19	{0.67}	0.16	{0.56}	0.13	{0.45}	0.10	{0.36}	0.080	{0.28}
	0.04	0.28	{1.0}	0.27	{0.94}	0.22	{0.78}	0.18	{0.63}	0.14	{0.50}	0.11	{0.38}
RPV-303BYF	0.01	0.16	{0.57}	0.15	{0.53}	0.13	{0.44}	0.10	{0.36}	0.08	{0.29}	0.063	{0.22}
	0.02	0.23	{0.81}	0.21	{0.74}	0.18	{0.62}	0.14	{0.50}	0.11	{0.40}	0.088	{0.31}
	0.04	0.31	{1.1}	0.28	{1.0}	0.24	{0.86}	0.20	{0.70}	0.16	{0.55}	0.12	{0.42}
RPV-602BYF	0.01	0.31	{1.1}	0.31	{1.1}	0.25	{0.88}	0.20	{0.72}	0.16	{0.57}	0.13	{0.45}
	0.02	0.45	{1.6}	0.43	{1.5}	0.34	{1.2}	0.28	{1.0}	0.23	{0.80}	0.18	{0.62}
	0.04	0.65	{2.3}	0.60	{2.1}	0.48	{1.7}	0.40	{1.4}	0.31	{1.1}	0.23	{0.80}
RPV-603BYF	0.01	0.48	{1.7}	0.45	{1.6}	0.38	{1.4}	0.32	{1.1}	0.24	{0.86}	0.19	{0.68}
	0.02	0.70	{2.5}	0.64	{2.3}	0.51	{1.8}	0.42	{1.5}	0.35	{1.2}	0.26	{0.90}
	0.04	0.96	{3.4}	0.90	{3.2}	0.74	{2.6}	0.61	{2.1}	0.48	{1.7}	0.35	{1.2}
RPV-804BYF	0.01	0.77	{2.7}	0.70	{2.5}	0.58	{2.0}	0.49	{1.7}	0.37	{1.3}	0.31	{1.1}
	0.02	1.1	{3.8}	0.98	{3.4}	0.83	{2.9}	0.67	{2.4}	0.52	{1.8}	0.40	{1.4}
	0.04	1.5	{5.3}	1.4	{4.8}	1.1	{4.0}	0.92	{3.2}	0.73	{2.6}	0.55	{1.9}
RPV-1004BYF	0.01	1.3	{4.6}	1.2	{4.2}	0.99	{3.5}	0.82	{2.9}	0.65	{2.3}	0.51	{1.8}
	0.02	1.8	{6.5}	1.7	{6.0}	1.4	{4.9}	1.2	{4.1}	0.92	{3.2}	0.72	{2.5}
	0.04	2.6	{9.1}	2.4	{8.4}	2.0	{7.0}	1.6	{5.6}	1.3	{4.4}	0.96	{3.4}
RPV-1205BYF	0.01	1.9	{6.9}	1.8	{6.3}	1.5	{5.2}	1.2	{4.3}	0.99	{3.5}	0.76	{2.7}
	0.02	2.6	{9.3}	2.5	{8.9}	2.1	{7.4}	1.7	{6.0}	1.4	{4.8}	1.1	{3.7}
	0.04	4.0	{14}	3.6	{13}	3.0	{10}	2.4	{8.4}	1.9	{6.6}	1.5	{5.1}
RPV-1606BYF	0.01	3.0	{11}	2.7	{9.3}	2.3	{8.2}	1.9	{6.7}	1.5	{5.4}	1.2	{4.2}
	0.02	4.3	{15}	4.0	{14}	3.3	{12}	2.7	{9.3}	2.1	{7.5}	1.7	{5.8}
	0.04	6.0	{21}	5.6	{20}	4.6	{16}	3.6	{13}	3.0	{11}	2.2	{7.8}
RPV-302DYF	0.01	0.15	{0.52}	0.13	{0.47}	0.11	{0.40}	0.091	{0.32}	0.074	{0.26}	0.057	{0.20}
	0.02	0.21	{0.73}	0.19	{0.67}	0.16	{0.56}	0.13	{0.45}	0.10	{0.36}	0.080	{0.28}
	0.04	0.28	{1.0}	0.26	{0.90}	0.22	{0.78}	0.18	{0.63}	0.14	{0.50}	0.11	{0.38}
RPV-303DYF	0.01	0.16	{0.6}	0.15	{0.53}	0.13	{0.44}	0.10	{0.36}	0.082	{0.29}	0.063	{0.22}
	0.02	0.23	{0.8}	0.21	{0.74}	0.18	{0.62}	0.14	{0.50}	0.11	{0.40}	0.088	{0.31}
	0.04	0.31	{1.1}	0.28	{1.00}	0.24	{0.86}	0.20	{0.70}	0.16	{0.55}	0.12	{0.42}
RPV-602DYF	0.01	0.31	{1.1}	0.31	{1.1}	0.25	{0.88}	0.20	{0.72}	0.16	{0.57}	0.13	{0.45}
	0.02	0.45	{1.6}	0.43	{1.5}	0.34	{1.2}	0.28	{1.0}	0.23	{0.80}	0.18	{0.62}
	0.04	0.65	{2.3}	0.60	{2.1}	0.48	{1.7}	0.40	{1.4}	0.31	{1.1}	0.23	{0.80}
RPV-603DYF	0.01	0.48	{1.7}	0.45	{1.6}	0.37	{1.3}	0.31	{1.1}	0.24	{0.86}	0.19	{0.67}
	0.02	0.68	{2.4}	0.63	{2.2}	0.54	{1.9}	0.43	{1.5}	0.34	{1.2}	0.26	{0.9}
	0.04	0.97	{3.4}	0.88	{3.1}	0.74	{2.6}	0.60	{2.1}	0.48	{1.7}	0.37	{1.3}
RPV-804DYF	0.01	0.77	{2.7}	0.71	{2.5}	0.57	{2.0}	0.48	{1.7}	0.37	{1.3}	0.28	{1.0}
	0.02	1.1	{3.8}	1.0	{3.5}	0.82	{2.9}	0.65	{2.3}	0.54	{1.9}	0.40	{1.4}
	0.04	1.5	{5.3}	1.4	{4.9}	1.1	{4.0}	0.94	{3.3}	0.74	{2.6}	0.57	{2.0}
RPV-1004DYF	0.01	1.3	{4.6}	1.2	{4.2}	1.0	{3.5}	0.82	{2.9}	0.65	{2.3}	0.51	{1.8}
	0.02	1.8	{6.5}	1.7	{5.9}	1.4	{4.9}	1.1	{4.0}	0.91	{3.2}	0.71	{2.5}
	0.04	2.6	{9.1}	2.4	{8.3}	2.0	{6.9}	1.6	{5.6}	1.3	{4.4}	1.0	{3.4}
RPV-1205DYF	0.01	2.0	{6.9}	1.8	{6.3}	1.5	{5.3}	1.2	{4.3}	1.0	{3.4}	0.77	{2.7}
	0.02	2.8	{10}	2.5	{8.9}	2.1	{7.4}	1.7	{6.0}	1.4	{4.8}	1.1	{3.7}
	0.04	4.0	{14}	3.7	{13}	2.8	{10}	2.4	{8.4}	1.9	{6.6}	1.5	{5.1}
RPV-1606DYF	0.01	3.1	{11}	2.8	{10}	2.3	{8.2}	1.9	{6.7}	1.5	{5.4}	1.2	{4.2}
	0.02	4.3	{15}	4.0	{14}	3.4	{12}	2.7	{9.4}	2.1	{7.5}	1.6	{5.8}
	0.04	6.0	{21}	5.4	{19}	4.5	{16}	3.7	{13}	2.8	{10}	2.2	{7.9}
RPV-1607DYF	0.01	3.1	{11}	2.8	{10}	2.3	{8.2}	1.9	{6.7}	1.5	{5.4}	1.2	{4.2}
	0.02	4.3	{15}	4.0	{14}	3.4	{12}	2.7	{9.4}	2.1	{7.5}	1.6	{5.8}
	0.04	6.0	{21}	5.4	{19}	4.5	{16}	3.7	{13}	2.8	{10}	2.2	{7.9}

Flow Rate

Hot Gas Defrost Line

CT. 38°C, hot Gas temperature at valve inlet 50°C

Catalog No.	Hot Gas Flow Rate (kg/h)							
	R410A				R463A-J			
	Pressure Drop (MPa)							
	0.05	0.10	0.15	0.30	0.05	0.10	0.15	0.30
RPV-302BYF	41	57	69	97	39	55	67	93
RPV-303BYF	45	63	77	107	44	61	74	103
RPV-602BYF	90	127	154	215	87	122	149	207
RPV-603BYF	135	190	232	322	131	183	224	311
RPV-804BYF	210	296	360	501	204	285	348	482
RPV-1004BYF	360	506	618	858	348	490	596	827
RPV-1205BYF	541	761	927	1288	523	734	894	1240
RPV-1606BYF	841	1183	1441	2003	813	1142	1391	1930
RPV-302DYF	40	57	69	97	39	55	67	93
RPV-303DYF	46	63	77	107	44	61	74	103
RPV-602DYF	90	127	154	215	87	122	149	207
RPV-603DYF	135	191	231	322	131	184	223	310
RPV-804DYF	210	297	360	500	203	286	348	482
RPV-1004DYF	360	508	617	858	348	490	596	827
RPV-1205DYF	540	761	926	1287	522	734	894	1240
RPV-1606DYF	841	1184	1439	2002	813	1142	1390	1929
RPV-1607DYF	841	1184	1439	2002	813	1142	1390	1929

Capacity Table

Liquid line Capacity

CT. 38°C / ET. 5°C / SC. 0K

Catalog No.	Capacity (U.S.R.T. {kw})							
	R134a				R404A			
	Pressure Drop (MPa)							
	0.01	0.015	0.02	0.04	0.01	0.015	0.02	0.04
REV-703BY REV-703DY REV-703BX REV-703DX	3.4 {12}	4.2 {15}	4.9 {17}	6.9 {24}	2.4 {8.4}	2.9 {10}	3.4 {12}	4.8 {17}
REV-104BY REV-103GY REV-104DY REV-1004BX REV-1003GX REV-1004DX	6.9 {24}	8.4 {30}	9.7 {34}	14 {48}	4.8 {17}	5.8 {21}	6.8 {24}	9.6 {34}
REV-1205BY REV-1204GY REV-1205DY REV-1205BX REV-1204GX REV-1205DX	12 {42}	15 {52}	17 {60}	24 {85}	8.4 {29}	10 {36}	12 {42}	17 {59}
REV-1506BY REV-1506GY REV-1506DY REV-1506BX REV-1506GX REV-1506DX	18 {64}	22 {78}	26 {91}	36 {128}	13 {45}	16 {55}	18 {63}	25 {89}
REV-2007DY REV-2010DY REV-2011DY REV-2007DX REV-2010DX REV-2011DX REV-20006EX	31 {109}	38 {133}	44 {154}	62 {218}	21 {76}	26 {93}	30 {107}	43 {151}
REV-2511DX REV-2512DX REV-2513DX	47 {167}	58 {204}	67 {236}	95 {334}	33 {116}	40 {142}	47 {164}	66 {232}
REV-3213DX REV-3214DX REV-3215DX	67 {235}	82 {287}	94 {332}	133 {469}	46 {163}	57 {200}	66 {230}	93 {326}
REV-4014EX	110 {387}	135 {474}	156 {547}	220 {774}	76 {269}	94 {329}	108 {380}	153 {537}
REV-5020EX	155 {544}	189 {666}	219 {769}	309 {1088}	107 {378}	132 {463}	152 {534}	215 {756}
REV-6524EX REV-6530EX	254 {894}	311 {1096}	360 {1265}	509 {1789}	177 {621}	216 {761}	250 {879}	353 {1243}

*Based on condensing temp. 38°C, evaporating temp. -5°C, sub-cooling 0°C. In case the conditions is different, the value is multiplied by the correction factor in the table.

Liquid line Capacity

CT. 38°C / ET. 5°C / SC. 0K

Catalog No.	Capacity (U.S.R.T. {kw})							
	R407C				R410A			
	Pressure Drop (MPa)							
	0.01	0.015	0.02	0.04	0.01	0.015	0.02	0.04
REV-703BY REV-703DY	0.28 {1.0}	3.5 {12}	4.9 {17}	7.0 {24}	3.5 {12}	4.2 {15}	4.9 {17}	6.9 {24}
REV-104BY REV-103GY REV-104DY	0.57 {2.0}	7.0 {24}	9.8 {35}	14 {49}	6.9 {24}	8.5 {30}	10 {34}	14 {49}
REV-1205BY REV-1204GY REV-1205DY	1.0 {3.5}	12 {43}	17 {61}	24 {86}	12 {43}	15 {52}	17 {60}	24 {85}
REV-1506BY REV-1506GY REV-1506DY	1.5 {5.3}	18 {65}	26 {92}	37 {130}	18 {65}	22 {79}	26 {91}	37 {129}
REV-2007DY REV-2010DY REV-2011DY	2.6 {9.0}	31 {110}	44 {156}	63 {220}	31 {110}	38 {134}	44 {155}	62 {219}

Catalog No.	Capacity (U.S.R.T. {kw})							
	R448A				R449A			
	Pressure Drop (MPa)							
	0.01	0.015	0.02	0.04	0.01	0.015	0.02	0.04
REV-703BY REV-703DY	3.2 {11}	3.9 {14}	4.5 {16}	6.4 {22}	3.2 {11}	3.9 {14}	4.5 {16}	6.3 {22}
REV-104BY REV-103GY REV-104DY	6.4 {22}	7.8 {28}	9.0 {32}	13 {45}	6.3 {22}	7.7 {27}	8.9 {31}	13 {44}
REV-1205BY REV-1204GY REV-1205DY	11 {39}	14 {48}	16 {56}	22 {79}	11 {39}	14 {48}	16 {55}	22 {78}
REV-1506BY REV-1506GY REV-1506DY	17 {60}	21 {73}	24 {84}	34 {119}	17 {59}	20 {72}	24 {83}	33 {117}
REV-2007DY REV-2010DY REV-2011DY	29 {101}	35 {124}	41 {143}	58 {202}	28 {100}	35 {122}	40 {141}	57 {199}

*Based on condensing temp. 38°C, evaporating temp. -5°C, sub-cooling 0°C. In case the conditions is different, the value is multiplied by the correction factor in the table.

Liquid line Capacity

CT. 38°C / ET. 5°C / SC. 0K

Catalog No.	Capacity (U.S.R.T. {kw})							
	R407H				R463A-J			
	Pressure Drop (MPa)							
	0.01	0.015	0.02	0.04	0.01	0.015	0.02	0.04
REV-703BY REV-703DY	3.7 {13}	4.5 {16}	5.3 {18}	7.4 {26}	3.4 {12}	4.1 {15}	4.8 {17}	6.7 {24}
REV-104BY REV-103GY REV-104DY	7.4 {26}	9.1 {32}	11 {37}	15 {52}	6.7 {24}	8.3 {29}	9.5 {34}	13 {47}
REV-1205BY REV-1204GY REV-1205DY	13 {46}	16 {56}	18 {65}	26 {91}	12 {42}	14 {51}	17 {59}	24 {83}
REV-1506BY REV-1506GY REV-1506DY	20 {69}	24 {85}	28 {98}	39 {138}	18 {63}	22 {77}	25 {89}	36 {126}
REV-2007DY REV-2010DY REV-2011DY	33 {118}	41 {144}	47 {166}	67 {235}	30 {107}	37 {131}	43 {151}	61 {213}

*Based on condensing temp. 38°C, evaporating temp. -5°C, sub-cooling 0°C. In case the conditions is different, the value is multiplied by the correction factor in the table.

Evaporating temperature correction factor

Evaporating Temp. (°C)	Correction factor							
	R134a	R404A	R407C	R410A	R448A	R449A	R407H	R463A-J
5	1	1	1	1	1	1	1	1
0	0.98	0.98	0.98	0.99	0.98	0.98	0.99	0.99
-10	0.94	0.93	0.95	0.97	0.95	0.95	0.96	0.96
-20	0.90	0.88	0.92	0.95	0.91	0.91	0.93	0.93
-30	0.85	0.83	0.88	0.92	0.87	0.87	0.89	0.90
-40	0.81	0.78	0.84	0.89	0.83	0.83	0.86	0.86

Subcooling correction factor

Subcooling (K)	Correction factor							
	R134a	R404A	R407C	R410A	R448A	R449A	R407H	R463A-J
0	1	1	1	1	1	1	1	1
10	1.12	1.17	1.13	1.14	1.14	1.14	1.14	1.14
20	1.23	1.34	1.25	1.27	1.27	1.27	1.26	1.28
30	1.35	1.51	1.37	1.41	1.40	1.40	1.38	1.41
40	1.46	1.67	1.49	1.53	1.53	1.53	1.49	1.54
50	1.58	1.83	1.61	1.66	1.65	1.66	1.61	1.67

Suction line Capacity

CT. 38°C , Superheat at valve inlet 0K

Catalog No.	Pressure drop across the valve (MPa)	Capacity (U.S.R.T. {kw})									
		R134a									
		Evaporating Temp. (°C)									
		5	0	-10	-20	-30	-40				
REV-703BY	0.01	0.39 {1.4}	0.35 {1.2}	0.28 {1.0}	0.22 {0.79}	0.17 {0.60}	0.13 {0.45}				
REV-703DY	0.015	0.48 {1.7}	0.43 {1.5}	0.35 {1.2}	0.27 {1.0}	0.21 {0.73}	0.15 {0.53}				
REV-703BX	0.02	0.55 {1.9}	0.49 {1.7}	0.40 {1.4}	0.31 {1.1}	0.24 {0.83}	0.17 {0.60}				
REV-703DX	0.04	0.76 {2.7}	0.69 {2.4}	0.55 {1.9}	0.42 {1.5}	0.31 {1.1}	0.21 {0.74}				
REV-104BY	0.01	0.78 {2.7}	0.71 {2.5}	0.57 {2.0}	0.45 {1.6}	0.343 {1.2}	0.25 {0.90}				
REV-103GY	0.015	0.95 {3.4}	0.86 {3.0}	0.69 {2.4}	0.54 {1.9}	0.41 {1.5}	0.30 {1.1}				
REV-104DY	0.02	1.1 {3.9}	0.99 {3.5}	0.79 {2.8}	0.62 {2.2}	0.47 {1.7}	0.34 {1.2}				
REV-1004BX	0.02	1.1 {3.9}	0.99 {3.5}	0.79 {2.8}	0.62 {2.2}	0.47 {1.7}	0.34 {1.2}				
REV-1003GX	0.02	1.1 {3.9}	0.99 {3.5}	0.79 {2.8}	0.62 {2.2}	0.47 {1.7}	0.34 {1.2}				
REV-1004DX	0.04	1.5 {5.4}	1.4 {4.8}	1.1 {3.8}	0.84 {3.0}	0.62 {2.2}	0.42 {1.5}				
REV-1205BY	0.01	1.4 {4.8}	1.2 {4.3}	0.99 {3.5}	0.78 {2.8}	0.60 {2.1}	0.45 {1.6}				
REV-1204GY	0.015	1.7 {5.9}	1.5 {5.3}	1.2 {4.3}	0.95 {3.3}	0.72 {2.5}	0.53 {1.9}				
REV-1205DY	0.015	1.7 {5.9}	1.5 {5.3}	1.2 {4.3}	0.95 {3.3}	0.72 {2.5}	0.53 {1.9}				
REV-1205BX	0.02	1.9 {6.8}	1.7 {6.1}	1.4 {4.9}	1.1 {3.8}	0.82 {2.9}	0.60 {2.1}				
REV-1204GX	0.02	1.9 {6.8}	1.7 {6.1}	1.4 {4.9}	1.1 {3.8}	0.82 {2.9}	0.60 {2.1}				
REV-1205DX	0.04	2.7 {9.4}	2.4 {8.5}	1.9 {6.7}	1.5 {5.2}	1.1 {3.8}	0.73 {2.6}				
REV-1506BY	0.01	2.1 {7.3}	1.9 {6.6}	1.5 {5.3}	1.2 {4.2}	0.91 {3.2}	0.67 {2.4}				
REV-1506GY	0.015	2.5 {8.9}	2.3 {8.0}	1.8 {6.4}	1.4 {5.1}	1.1 {3.9}	0.80 {2.8}				
REV-1506DY	0.015	2.5 {8.9}	2.3 {8.0}	1.8 {6.4}	1.4 {5.1}	1.1 {3.9}	0.80 {2.8}				
REV-1506BX	0.02	2.9 {10}	2.6 {9.2}	2.1 {7.4}	1.6 {5.8}	1.2 {4.4}	0.90 {3.2}				
REV-1506GX	0.02	2.9 {10}	2.6 {9.2}	2.1 {7.4}	1.6 {5.8}	1.2 {4.4}	0.90 {3.2}				
REV-1506DX	0.04	4.1 {14}	3.6 {13}	2.9 {10}	2.2 {7.8}	1.6 {5.8}	1.1 {3.9}				
REV-2007DY	0.01	3.5 {12}	3.2 {11}	2.6 {9.0}	2.0 {7.1}	1.5 {5.4}	1.1 {4.0}				
REV-2010DY	0.01	3.5 {12}	3.2 {11}	2.6 {9.0}	2.0 {7.1}	1.5 {5.4}	1.1 {4.0}				
REV-2011DY	0.015	4.3 {15}	3.9 {14}	3.1 {11}	2.4 {8.6}	1.9 {6.5}	1.4 {4.8}				
REV-2007DX	0.015	4.3 {15}	3.9 {14}	3.1 {11}	2.4 {8.6}	1.9 {6.5}	1.4 {4.8}				
REV-2010DX	0.02	4.9 {17}	4.5 {16}	3.6 {13}	2.8 {9.8}	2.1 {7.4}	1.5 {5.4}				
REV-2011DX	0.02	4.9 {17}	4.5 {16}	3.6 {13}	2.8 {9.8}	2.1 {7.4}	1.5 {5.4}				
REV-20006EX	0.04	6.9 {24}	6.2 {22}	4.9 {17}	3.8 {13}	2.8 {9.8}	1.9 {6.6}				
REV-2511DX	0.01	5.4 {19}	4.9 {17}	3.9 {14}	3.1 {11}	2.4 {8.3}	1.8 {6.2}				
REV-2512DX	0.015	6.6 {23}	5.9 {21}	4.8 {17}	3.7 {13}	2.9 {10}	2.1 {7.4}				
REV-2513DX	0.02	7.6 {27}	6.8 {24}	5.5 {19}	4.3 {15}	3.2 {11}	2.3 {8.3}				
REV-2513DX	0.04	11 {37}	9.5 {33}	7.5 {27}	5.8 {20}	4.3 {15}	2.9 {10}				
REV-3213DX	0.01	7.6 {27}	6.8 {24}	5.5 {19}	4.3 {15}	3.3 {12}	2.5 {8.7}				
REV-3214DX	0.015	9.2 {33}	8.4 {29}	6.7 {24}	5.3 {19}	4.0 {14}	2.9 {10}				
REV-3215DX	0.02	11 {37}	9.6 {34}	7.7 {27}	6.0 {21}	4.6 {16}	3.3 {12}				
REV-3215DX	0.04	15 {52}	13 {47}	11 {37}	8.2 {29}	6.0 {21}	4.1 {14}				
REV-4014EX	0.01	13 {44}	11 {40}	9.1 {32}	7.2 {25}	5.5 {19}	4.1 {14}				
REV-4014EX	0.015	15 {54}	14 {48}	11 {39}	8.7 {31}	6.6 {23}	4.9 {17}				
REV-4014EX	0.02	18 {62}	16 {56}	13 {45}	9.9 {35}	7.5 {26}	5.4 {19}				
REV-4014EX	0.04	24 {86}	22 {77}	17 {61}	13 {47}	9.9 {35}	6.7 {24}				
REV-5020EX	0.01	18 {62}	16 {56}	13 {45}	10 {35}	7.7 {27}	5.7 {20}				
REV-5020EX	0.015	21 {75}	19 {68}	16 {55}	12 {43}	9.3 {33}	6.8 {24}				
REV-5020EX	0.02	25 {87}	22 {78}	18 {63}	14 {49}	11 {37}	7.7 {27}				
REV-5020EX	0.04	34 {121}	31 {109}	25 {86}	19 {67}	14 {49}	9.4 {33}				
REV-6524EX	0.01	29 {102}	26 {92}	21 {74}	17 {58}	13 {45}	9.4 {33}				
REV-6524EX	0.015	35 {124}	32 {112}	26 {90}	20 {71}	15 {54}	11 {39}				
REV-6530EX	0.02	41 {143}	37 {129}	29 {103}	23 {81}	17 {61}	13 {44}				
REV-6530EX	0.04	57 {199}	51 {179}	40 {142}	31 {109}	23 {81}	16 {55}				

Suction line Capacity

CT. 38°C , Superheat at valve inlet 0K

Catalog No.	Pressure drop across the valve (MPa)	Capacity (U.S.R.T. {kw})											
		R404A											
		Evaporating Temp. (°C)											
		5		0		-10		-20		-30		-40	
REV-703BY REV-703DY REV-703BX REV-703DX	0.01	0.41	{1.4}	0.37	{1.3}	0.31	{1.1}	0.25	{0.87}	0.19	{0.68}	0.15	{0.52}
	0.015	0.50	{1.8}	0.46	{1.6}	0.37	{1.3}	0.30	{1.1}	0.24	{0.83}	0.18	{0.63}
	0.02	0.58	{2.0}	0.53	{1.9}	0.43	{1.5}	0.35	{1.2}	0.27	{0.95}	0.21	{0.72}
	0.04	0.81	{2.8}	0.74	{2.6}	0.60	{2.1}	0.48	{1.7}	0.37	{1.3}	0.28	{0.98}
REV-104BY REV-103GY REV-104DY REV-1004BX REV-1003GX REV-1004DX	0.01	0.82	{2.9}	0.75	{2.6}	0.61	{2.2}	0.49	{1.7}	0.39	{1.4}	0.30	{1.0}
	0.015	1.0	{3.5}	0.91	{3.2}	0.75	{2.6}	0.60	{2.1}	0.47	{1.7}	0.36	{1.3}
	0.02	1.2	{4.1}	1.1	{3.7}	0.86	{3.0}	0.69	{2.4}	0.54	{1.9}	0.41	{1.4}
	0.04	1.6	{5.7}	1.5	{5.2}	1.2	{4.2}	0.96	{3.4}	0.75	{2.6}	0.56	{2.0}
REV-1205BY REV-1204GY REV-1205DY REV-1205BX REV-1204GX REV-1205DX	0.01	1.4	{5.0}	1.3	{4.6}	1.1	{3.8}	0.86	{3.0}	0.68	{2.4}	0.52	{1.8}
	0.015	1.8	{6.2}	1.6	{5.6}	1.3	{4.6}	1.1	{3.7}	0.83	{2.9}	0.63	{2.2}
	0.02	2.0	{7.1}	1.8	{6.5}	1.5	{5.3}	1.2	{4.3}	0.95	{3.3}	0.72	{2.5}
	0.04	2.8	{10}	2.6	{9.1}	2.1	{7.4}	1.7	{5.9}	1.3	{4.6}	0.97	{3.4}
REV-1506BY REV-1506GY REV-1506DY REV-1506BX REV-1506GX REV-1506DX	0.01	2.2	{7.6}	2.0	{7.0}	1.6	{5.7}	1.3	{4.6}	1.0	{3.6}	0.79	{2.8}
	0.015	2.7	{9.3}	2.4	{8.5}	2.0	{7.0}	1.6	{5.6}	1.3	{4.4}	0.95	{3.3}
	0.02	3.1	{11}	2.8	{9.8}	2.3	{8.0}	1.8	{6.4}	1.4	{5.0}	1.1	{3.8}
	0.04	4.3	{15}	3.9	{14}	3.2	{11}	2.5	{9.0}	2.0	{6.9}	1.5	{5.2}
REV-2007DY REV-2010DY REV-2011DY REV-2007DX REV-2010DX REV-2011DX REV-20006EX	0.01	3.7	{13}	3.4	{12}	2.8	{9.7}	2.2	{7.8}	1.7	{6.1}	1.3	{4.7}
	0.015	4.5	{16}	4.1	{14}	3.4	{12}	2.7	{9.5}	2.1	{7.5}	1.6	{5.7}
	0.02	5.2	{18}	4.7	{17}	3.9	{14}	3.1	{11}	2.4	{8.6}	1.8	{6.5}
	0.04	7.3	{26}	6.6	{23}	5.4	{19}	4.3	{15}	3.4	{12}	2.5	{8.8}
REV-2511DX REV-2512DX REV-2513DX	0.01	5.7	{20}	5.2	{18}	4.2	{15}	3.4	{12}	2.7	{9.4}	2.0	{7.2}
	0.015	6.9	{24}	6.3	{22}	5.2	{18}	4.2	{15}	3.3	{11}	2.5	{8.7}
	0.02	8.0	{28}	7.3	{26}	5.9	{21}	4.8	{17}	3.7	{13}	2.8	{10}
	0.04	11	{39}	10.2	{36}	8.3	{29}	6.6	{23}	5.1	{18}	3.8	{14}
REV-3213DX REV-3214DX REV-3215DX	0.01	7.9	{28}	7.2	{25}	5.9	{21}	4.8	{17}	3.8	{13}	2.9	{10}
	0.015	9.7	{34}	8.9	{31}	7.3	{26}	5.8	{21}	4.6	{16}	3.5	{12}
	0.02	11	{39}	10	{36}	8.4	{29}	6.7	{24}	5.2	{18}	4.0	{14}
	0.04	16	{55}	14	{50}	12	{41}	9.3	{33}	7.2	{25}	5.4	{19}
REV-4014EX	0.01	13	{46}	12	{42}	9.8	{35}	7.9	{28}	6.2	{22}	4.7	{17}
	0.015	16	{56}	15	{51}	12	{42}	9.6	{34}	7.5	{27}	5.8	{20}
	0.02	18	{65}	17	{59}	14	{49}	11	{39}	8.7	{30}	6.6	{23}
	0.04	26	{91}	24	{83}	19	{68}	15	{54}	12	{42}	8.9	{31}
REV-5020EX	0.01	18	{65}	17	{59}	14	{49}	11	{39}	8.7	{31}	6.7	{23}
	0.015	23	{79}	21	{72}	17	{59}	14	{48}	11	{37}	8.1	{28}
	0.02	26	{91}	24	{83}	19	{68}	16	{55}	12	{43}	9.2	{33}
	0.04	36	{128}	33	{117}	27	{95}	22	{76}	17	{59}	13	{44}
REV-6524EX REV-6530EX	0.01	30	{107}	28	{97}	23	{80}	18	{64}	14	{50}	11	{39}
	0.015	37	{130}	34	{119}	28	{97}	22	{78}	17	{61}	13	{47}
	0.02	43	{150}	39	{137}	32	{112}	26	{90}	20	{70}	15	{53}
	0.04	60	{211}	55	{192}	45	{157}	36	{125}	28	{97}	21	{72}

Suction line Capacity

CT. 38°C , Superheat at valve inlet 0K

Catalog No.	Pressure drop across the valve (MPa)	Capacity (U.S.R.T. {kw})											
		R407C											
		Evaporating Temp. (°C)											
		5	0		-10		-20		-30		-40		
REV-703BY REV-703DY	0.01	0.47	{1.7}	0.43	{1.5}	0.35	{1.2}	0.28	{0.99}	0.22	{0.77}	0.17	{0.59}
	0.015	0.58	{2.0}	0.52	{1.8}	0.43	{1.5}	0.34	{1.2}	0.27	{0.94}	0.20	{0.71}
	0.02	0.66	{2.3}	0.60	{2.1}	0.49	{1.7}	0.39	{1.4}	0.31	{1.1}	0.23	{0.81}
	0.04	0.93	{3.3}	0.84	{3.0}	0.69	{2.4}	0.54	{1.9}	0.42	{1.5}	0.30	{1.1}
REV-104BY REV-103GY REV-104DY	0.01	0.94	{3.3}	0.86	{3.0}	0.70	{2.5}	0.56	{2.0}	0.44	{1.5}	0.33	{1.2}
	0.015	1.2	{4.0}	1.0	{3.7}	0.86	{3.0}	0.69	{2.4}	0.53	{1.9}	0.40	{1.4}
	0.02	1.3	{4.7}	1.2	{4.2}	0.98	{3.5}	0.79	{2.8}	0.61	{2.1}	0.46	{1.6}
	0.04	1.9	{6.5}	1.7	{5.9}	1.4	{4.8}	1.1	{3.8}	0.83	{2.9}	0.60	{2.1}
REV-1205BY REV-1204GY REV-1205DY	0.01	1.6	{5.8}	1.5	{5.3}	1.2	{4.3}	0.99	{3.5}	0.77	{2.7}	0.59	{2.1}
	0.015	2.0	{7.1}	1.8	{6.4}	1.5	{5.3}	1.2	{4.2}	0.94	{3.3}	0.71	{2.5}
	0.02	2.3	{8.2}	2.1	{7.4}	1.7	{6.1}	1.4	{4.8}	1.1	{3.8}	0.80	{2.8}
	0.04	3.2	{11}	3.0	{10}	2.4	{8.4}	1.9	{6.7}	1.5	{5.1}	1.1	{3.7}
REV-1506BY REV-1506GY REV-1506DY	0.01	2.5	{8.8}	2.3	{8.0}	1.9	{6.5}	1.5	{5.2}	1.2	{4.1}	0.89	{3.1}
	0.015	3.0	{11}	2.8	{9.8}	2.3	{8.0}	1.8	{6.4}	1.4	{5.0}	1.1	{3.8}
	0.02	3.5	{12}	3.2	{11}	2.6	{9.2}	2.1	{7.3}	1.6	{5.7}	1.2	{4.3}
	0.04	4.9	{17}	4.5	{16}	3.6	{13}	2.9	{10}	2.2	{7.7}	1.6	{5.6}
REV-2007DY REV-2010DY REV-2011DY	0.01	4.2	{15}	3.9	{14}	3.2	{11}	2.5	{8.9}	2.0	{7.0}	1.5	{5.3}
	0.015	5.2	{18}	4.7	{17}	3.9	{14}	3.1	{11}	2.4	{8.5}	1.8	{6.4}
	0.02	6.0	{21}	5.4	{19}	4.4	{16}	3.5	{12}	2.8	{9.7}	2.1	{7.3}
	0.04	8.4	{29}	7.6	{27}	6.2	{22}	4.9	{17}	3.7	{13}	2.7	{9.6}

Catalog No.	Pressure drop across the valve (MPa)	Capacity (U.S.R.T. {kw})											
		R410A											
		Evaporating Temp. (°C)											
		5	0		-10		-20		-30		-40		
REV-703BY REV-703DY	0.01	0.59	{2.1}	0.54	{1.9}	0.46	{1.6}	0.39	{1.4}	0.38	{1.3}	0.31	{1.1}
	0.015	0.72	{2.5}	0.66	{2.3}	0.56	{2.0}	0.48	{1.7}	0.46	{1.6}	0.38	{1.3}
	0.02	0.83	{2.9}	0.76	{2.7}	0.64	{2.3}	0.55	{2.0}	0.53	{1.9}	0.43	{1.5}
	0.04	1.2	{4.1}	1.1	{3.8}	0.90	{3.2}	0.77	{2.7}	0.74	{2.6}	0.60	{2.1}
REV-104BY REV-103GY REV-104DY	0.01	1.2	{4.1}	1.1	{3.8}	0.92	{3.2}	0.79	{2.8}	0.76	{2.7}	0.62	{2.2}
	0.015	1.4	{5.1}	1.3	{4.7}	1.1	{3.9}	0.96	{3.4}	0.93	{3.3}	0.75	{2.6}
	0.02	1.7	{5.8}	1.5	{5.4}	1.3	{4.5}	1.1	{3.9}	1.1	{3.7}	0.86	{3.0}
	0.04	2.3	{8.2}	2.1	{7.5}	1.8	{6.4}	1.5	{5.4}	1.5	{5.2}	1.2	{4.2}
REV-1205BY REV-1204GY REV-1205DY	0.01	2.1	{7.2}	1.9	{6.7}	1.6	{5.6}	1.4	{4.9}	1.3	{4.7}	1.1	{3.8}
	0.015	2.5	{8.8}	2.3	{8.2}	2.0	{6.9}	1.7	{5.9}	1.6	{5.7}	1.3	{4.6}
	0.02	2.9	{10}	2.7	{9.4}	2.3	{7.9}	1.9	{6.8}	1.9	{6.6}	1.5	{5.3}
	0.04	4.1	{14}	3.8	{13.2}	3.2	{11}	2.7	{9.5}	2.6	{9.2}	2.1	{7.4}
REV-1506BY REV-1506GY REV-1506DY	0.01	3.1	{11}	2.9	{10.1}	2.4	{8.5}	2.1	{7.4}	2.0	{7.1}	1.6	{5.7}
	0.015	3.8	{13}	3.5	{12.3}	3.0	{10}	2.6	{9.0}	2.5	{8.6}	2.0	{7.0}
	0.02	4.4	{15}	4.0	{14.2}	3.4	{12}	2.9	{10}	2.8	{9.9}	2.3	{8.0}
	0.04	6.2	{22}	5.7	{20.0}	4.8	{17}	4.1	{14}	3.9	{14}	3.2	{11}
REV-2007DY REV-2010DY REV-2011DY	0.01	5.3	{19}	4.9	{17.1}	4.1	{14}	3.5	{12}	3.4	{12}	2.8	{9.7}
	0.015	6.5	{23}	6.0	{21.0}	5.0	{18}	4.3	{15}	4.2	{15}	3.4	{12}
	0.02	7.5	{26}	6.9	{24.2}	5.8	{20}	5.0	{18}	4.8	{17}	3.9	{14}
	0.04	10	{37}	9.7	{34.0}	8.1	{29}	7.0	{25}	6.7	{24}	5.4	{19}

Suction line Capacity

CT. 38°C , Superheat at valve inlet 0K

Catalog No.	Pressure drop across the valve (MPa)	Capacity (U.S.R.T. {kw})									
		R448A									
		Evaporating Temp. (°C)									
		5	0	-10	-20	-30	-40				
REV-703BY REV-703DY	0.01	0.47 {1.6}	0.42 {1.5}	0.35 {1.2}	0.28 {0.99}	0.22 {0.78}	0.17 {0.6}				
	0.015	0.57 {2.0}	0.52 {1.8}	0.43 {1.5}	0.34 {1.2}	0.27 {0.95}	0.20 {0.7}				
	0.02	0.66 {2.3}	0.60 {2.1}	0.49 {1.7}	0.39 {1.4}	0.31 {1.1}	0.23 {0.8}				
	0.04	0.92 {3.2}	0.84 {2.9}	0.68 {2.4}	0.54 {1.9}	0.42 {1.5}	0.31 {1.1}				
REV-104BY REV-103GY REV-104DY	0.01	0.93 {3.3}	0.85 {3.0}	0.70 {2.5}	0.56 {2.0}	0.44 {1.6}	0.34 {1.2}				
	0.015	1.1 {4.0}	1.0 {3.7}	0.85 {3.0}	0.69 {2.4}	0.54 {1.9}	0.41 {1.4}				
	0.02	1.3 {4.6}	1.2 {4.2}	0.98 {3.4}	0.79 {2.8}	0.62 {2.2}	0.47 {1.6}				
	0.04	1.8 {6.5}	1.7 {5.9}	1.4 {4.8}	1.1 {3.8}	0.84 {3.0}	0.62 {2.2}				
REV-1205BY REV-1204GY REV-1205DY	0.01	1.6 {5.7}	1.5 {5.2}	1.2 {4.3}	0.98 {3.5}	0.77 {2.7}	0.59 {2.1}				
	0.015	2.0 {7.0}	1.8 {6.4}	1.5 {5.2}	1.2 {4.2}	0.94 {3.3}	0.72 {2.5}				
	0.02	2.3 {8.1}	2.1 {7.4}	1.7 {6.0}	1.4 {4.8}	1.1 {3.8}	0.81 {2.9}				
	0.04	3.2 {11}	2.9 {10}	2.4 {8.4}	1.9 {6.7}	1.5 {5.2}	1.1 {3.8}				
REV-1506BY REV-1506GY REV-1506DY	0.01	2.5 {8.7}	2.3 {7.9}	1.9 {6.5}	1.5 {5.2}	1.2 {4.1}	0.90 {3.2}				
	0.015	3.0 {11}	2.8 {9.7}	2.3 {7.9}	1.8 {6.4}	1.4 {5.0}	1.1 {3.8}				
	0.02	3.5 {12}	3.2 {11}	2.6 {9.1}	2.1 {7.3}	1.6 {5.7}	1.2 {4.3}				
	0.04	4.9 {17}	4.4 {16}	3.6 {13}	2.9 {10}	2.2 {7.8}	1.6 {5.8}				
REV-2007DY REV-2010DY REV-2011DY	0.01	4.2 {15}	3.8 {13}	3.1 {11}	2.5 {8.9}	2.0 {7.0}	1.5 {5.4}				
	0.015	5.1 {18}	4.7 {16}	3.8 {13}	3.1 {11}	2.4 {8.5}	1.8 {6.5}				
	0.02	5.9 {21}	5.4 {19}	4.4 {16}	3.5 {12}	2.8 {9.7}	2.1 {7.4}				
	0.04	8.3 {29}	7.5 {26}	6.1 {22}	4.9 {17}	3.8 {13}	2.8 {9.8}				

Catalog No.	Pressure drop across the valve (MPa)	Capacity (U.S.R.T. {kw})									
		R449A									
		Evaporating Temp. (°C)									
		5	0	-10	-20	-30	-40				
REV-703BY REV-703DY	0.01	0.46 {1.6}	0.42 {1.5}	0.35 {1.2}	0.28 {0.98}	0.22 {0.77}	0.17 {0.59}				
	0.015	0.56 {2.0}	0.51 {1.8}	0.42 {1.5}	0.34 {1.2}	0.27 {0.94}	0.20 {0.71}				
	0.02	0.65 {2.3}	0.59 {2.1}	0.49 {1.7}	0.39 {1.4}	0.30 {1.1}	0.23 {0.81}				
	0.04	0.91 {3.2}	0.83 {2.9}	0.68 {2.4}	0.54 {1.9}	0.42 {1.5}	0.31 {1.1}				
REV-104BY REV-103GY REV-104DY	0.01	0.92 {3.2}	0.84 {3.0}	0.69 {2.4}	0.56 {2.0}	0.44 {1.5}	0.34 {1.2}				
	0.015	1.1 {4.0}	1.0 {3.6}	0.84 {3.0}	0.68 {2.4}	0.53 {1.9}	0.40 {1.4}				
	0.02	1.3 {4.6}	1.2 {4.2}	0.97 {3.4}	0.78 {2.7}	0.61 {2.1}	0.46 {1.6}				
	0.04	1.8 {6.4}	1.7 {5.8}	1.4 {4.8}	1.1 {3.8}	0.83 {2.9}	0.62 {2.2}				
REV-1205BY REV-1204GY REV-1205DY	0.01	1.6 {5.7}	1.5 {5.2}	1.2 {4.3}	0.98 {3.4}	0.77 {2.7}	0.59 {2.1}				
	0.015	2.0 {6.9}	1.8 {6.3}	1.5 {5.2}	1.2 {4.2}	0.93 {3.3}	0.71 {2.5}				
	0.02	2.3 {8.0}	2.1 {7.3}	1.7 {6.0}	1.4 {4.8}	1.1 {3.8}	0.81 {2.8}				
	0.04	3.2 {11}	2.9 {10}	2.4 {8.3}	1.9 {6.6}	1.5 {5.1}	1.1 {3.8}				
REV-1506BY REV-1506GY REV-1506DY	0.01	2.4 {8.6}	2.2 {7.8}	1.8 {6.4}	1.5 {5.2}	1.2 {4.1}	0.89 {3.1}				
	0.015	3.0 {11}	2.7 {9.6}	2.2 {7.9}	1.8 {6.3}	1.4 {5.0}	1.1 {3.8}				
	0.02	3.4 {12}	3.1 {11}	2.6 {9.1}	2.1 {7.3}	1.6 {5.7}	1.2 {4.3}				
	0.04	4.8 {17}	4.4 {15}	3.6 {13}	2.9 {10}	2.2 {7.8}	1.6 {5.7}				
REV-2007DY REV-2010DY REV-2011DY	0.01	4.2 {15}	3.8 {13}	3.1 {11}	2.5 {8.8}	2.0 {6.9}	1.5 {5.3}				
	0.015	5.1 {18}	4.6 {16}	3.8 {13}	3.1 {11}	2.4 {8.4}	1.8 {6.4}				
	0.02	5.8 {21}	5.3 {19}	4.4 {15}	3.5 {12}	2.7 {9.7}	2.1 {7.3}				
	0.04	8.2 {29}	7.5 {26}	6.1 {21}	4.9 {17}	3.7 {13}	2.8 {9.7}				

Suction line Capacity

CT. 38°C , Superheat at valve inlet 0K

Catalog No.	Pressure drop across the valve (MPa)	Capacity (U.S.R.T. {kw})											
		R407H											
		Evaporating Temp. (°C)											
		5		0		-10		-20		-30		-40	
REV-703BY REV-703DY	0.01	0.51	{1.8}	0.46	{1.6}	0.38	{1.3}	0.31	{1.1}	0.24	{0.85}	0.19	{0.65}
	0.015	0.62	{2.2}	0.57	{2.0}	0.46	{1.6}	0.37	{1.3}	0.29	{1.0}	0.22	{0.79}
	0.02	0.71	{2.5}	0.65	{2.3}	0.53	{1.9}	0.43	{1.5}	0.34	{1.2}	0.25	{0.89}
	0.04	1.0	{3.5}	0.91	{3.2}	0.74	{2.6}	0.59	{2.1}	0.46	{1.6}	0.34	{1.2}
REV-104BY REV-103GY REV-104DY	0.01	1.0	{3.6}	0.93	{3.3}	0.76	{2.7}	0.61	{2.2}	0.48	{1.7}	0.37	{1.3}
	0.015	1.2	{4.4}	1.1	{4.0}	0.93	{3.3}	0.75	{2.6}	0.59	{2.1}	0.45	{1.6}
	0.02	1.4	{5.0}	1.3	{4.6}	1.1	{3.8}	0.86	{3.0}	0.67	{2.4}	0.51	{1.8}
	0.04	2.0	{7.0}	1.8	{6.4}	1.5	{5.2}	1.2	{4.2}	0.91	{3.2}	0.67	{2.4}
REV-1205BY REV-1204GY REV-1205DY	0.01	1.8	{6.2}	1.6	{5.7}	1.3	{4.7}	1.1	{3.8}	0.85	{3.0}	0.65	{2.3}
	0.015	2.2	{7.6}	2.0	{7.0}	1.6	{5.7}	1.3	{4.6}	1.0	{3.6}	0.78	{2.7}
	0.02	2.5	{8.8}	2.3	{8.0}	1.9	{6.6}	1.5	{5.3}	1.2	{4.1}	0.89	{3.1}
	0.04	3.5	{12}	3.2	{11}	2.6	{9.2}	2.1	{7.3}	1.6	{5.6}	1.2	{4.1}
REV-1506BY REV-1506GY REV-1506DY	0.01	2.7	{9.4}	2.5	{8.6}	2.0	{7.1}	1.6	{5.7}	1.3	{4.5}	0.98	{3.5}
	0.015	3.3	{12}	3.0	{11}	2.5	{8.7}	2.0	{7.0}	1.6	{5.5}	1.2	{4.2}
	0.02	3.8	{13}	3.5	{12}	2.8	{10}	2.3	{8.0}	1.8	{6.3}	1.3	{4.7}
	0.04	5.3	{19}	4.8	{17}	3.9	{14}	3.1	{11}	2.4	{8.5}	1.8	{6.3}
REV-2007DY REV-2010DY REV-2011DY	0.01	4.6	{16}	4.2	{15}	3.4	{12}	2.8	{9.7}	2.2	{7.7}	1.7	{5.9}
	0.015	5.6	{20}	5.1	{18}	4.2	{15}	3.4	{12}	2.6	{9.3}	2.0	{7.1}
	0.02	6.4	{23}	5.9	{21}	4.8	{17}	3.9	{14}	3.0	{11}	2.3	{8.0}
	0.04	9.0	{32}	8.2	{29}	6.7	{24}	5.3	{19}	4.1	{14}	3.0	{11}

Catalog No.	Pressure drop across the valve (MPa)	Capacity (U.S.R.T. {kw})											
		R463A-J											
		Evaporating Temp. (°C)											
		5		0		-10		-20		-30		-40	
REV-703BY REV-703DY	0.01	0.54	{1.9}	0.50	{1.8}	0.42	{1.5}	0.34	{1.2}	0.27	{0.96}	0.21	{0.74}
	0.015	0.66	{2.3}	0.61	{2.1}	0.51	{1.8}	0.41	{1.5}	0.33	{1.2}	0.26	{0.90}
	0.02	0.77	{2.7}	0.70	{2.5}	0.59	{2.1}	0.48	{1.7}	0.38	{1.3}	0.29	{1.0}
	0.04	1.1	{3.8}	0.99	{3.5}	0.82	{2.9}	0.66	{2.3}	0.52	{1.8}	0.40	{1.4}
REV-104BY REV-103GY REV-104DY	0.01	1.1	{3.8}	1.0	{3.5}	0.83	{2.9}	0.68	{2.4}	0.54	{1.9}	0.42	{1.5}
	0.015	1.3	{4.7}	1.2	{4.3}	1.0	{3.6}	0.83	{2.9}	0.66	{2.3}	0.51	{1.8}
	0.02	1.5	{5.4}	1.4	{5.0}	1.2	{4.1}	0.95	{3.4}	0.76	{2.7}	0.59	{2.1}
	0.04	2.2	{7.6}	2.0	{7.0}	1.6	{5.8}	1.3	{4.7}	1.0	{3.7}	0.80	{2.8}
REV-1205BY REV-1204GY REV-1205DY	0.01	1.9	{6.7}	1.7	{6.1}	1.5	{5.1}	1.2	{4.2}	0.95	{3.3}	0.74	{2.6}
	0.015	2.3	{8.2}	2.1	{7.5}	1.8	{6.3}	1.5	{5.1}	1.2	{4.1}	0.90	{3.2}
	0.02	2.7	{9.4}	2.5	{8.7}	2.0	{7.2}	1.7	{5.9}	1.3	{4.7}	1.0	{3.6}
	0.04	3.8	{13}	3.5	{12}	2.9	{10}	2.3	{8.2}	1.8	{6.5}	1.4	{4.9}
REV-1506BY REV-1506GY REV-1506DY	0.01	2.9	{10}	2.6	{9.3}	2.2	{7.8}	1.8	{6.3}	1.4	{5.1}	1.1	{3.9}
	0.015	3.5	{12}	3.2	{11}	2.7	{9.5}	2.2	{7.7}	1.8	{6.2}	1.4	{4.8}
	0.02	4.1	{14}	3.7	{13}	3.1	{11}	2.5	{8.9}	2.0	{7.1}	1.6	{5.5}
	0.04	5.7	{20}	5.2	{18}	4.3	{15}	3.5	{12}	2.8	{9.8}	2.1	{7.4}
REV-2007DY REV-2010DY REV-2011DY	0.01	4.9	{17}	4.5	{16}	3.7	{13}	3.1	{11}	2.4	{8.6}	1.9	{6.7}
	0.015	6.0	{21}	5.5	{19}	4.6	{16}	3.7	{13}	3.0	{10}	2.3	{8.1}
	0.02	6.9	{24}	6.3	{22}	5.3	{19}	4.3	{15}	3.4	{12}	2.6	{9.3}
	0.04	9.7	{34}	8.9	{31}	7.4	{26}	6.0	{21}	4.7	{17}	3.6	{13}

Flow Rate

Hot Gas Defrost Line

CT. 38°C, hot Gas temperature at valve inlet 50°C

Catalog No.	Hot Gas Flow Rate (kg/h)							
	R134a				R404A			
	Pressure Drop (MPa)							
	0.05	0.10	0.15	0.30	0.05	0.10	0.15	0.30
REV-703BY REV-703DY REV-703BX REV-703DX	114	160	193	261	151	211	257	355
REV-104BY REV-103GY REV-104DY REV-1004BX REV-1003GX REV-1004DX	229	319	386	522	301	423	514	710
REV-1205BY REV-1204GY REV-1205DY REV-1205BX REV-1204GX REV-1205DX	400	559	675	913	527	740	899	1243
REV-1506BY REV-1506GY REV-1506DY REV-1506BX REV-1506GX REV-1506DX	606	846	1022	1383	798	1121	1362	1882
REV-2007DY REV-2010DY REV-2011DY REV-2007DX REV-2010DX REV-2011DX REV-20006EX	1030	1437	1735	2348	1355	1903	2313	3196
REV-2511DX REV-2512DX REV-2513DX	1579	2203	2661	3601	2078	2918	3547	4900
REV-3213DX REV-3214DX REV-3215DX	2220	3097	3741	5062	2922	4102	4986	6889
REV-4014EX	3661	5109	6171	8350	4819	6765	8224	11363
REV-5020EX	5149	7184	8677	11742	6777	9514	11565	15979
REV-6524EX REV-6530EX	8467	11814	14269	19309	11145	15645	19018	26276

Hot Gas Defrost Line

CT. 38°C, hot Gas temperature at valve inlet 50°C

Catalog No.	Hot Gas Flow Rate (kg/h)											
	R407C				R410A				R448A			
	Pressure Drop (MPa)											
	0.05	0.10	0.15	0.30	0.05	0.10	0.15	0.30	0.05	0.10	0.15	0.30
REV-703BY REV-703DY	130	182	221	304	150	211	257	358	135	190	230	318
REV-104BY REV-103GY REV-104DY	260	365	443	609	300	422	515	715	270	379	461	635
REV-1205BY REV-1204GY REV-1205DY	455	638	774	1065	526	739	900	1252	473	664	806	1111
REV-1506BY REV-1506GY REV-1506DY	689	966	1173	1613	796	1120	1364	1896	717	1005	1221	1683
REV-2007DY REV-2010DY REV-2011DY	1170	1641	1992	2739	1352	1901	2316	3219	1217	1707	2073	2858

Catalog No.	Hot Gas Flow Rate (kg/h)											
	R449A				R407H				R463A-J			
	Pressure Drop (MPa)											
	0.05	0.10	0.15	0.30	0.05	0.10	0.15	0.30	0.05	0.10	0.15	0.30
REV-703BY REV-703DY	136	191	232	319	127	178	217	298	145	204	248	345
REV-104BY REV-103GY REV-104DY	272	382	463	639	254	357	433	596	290	408	497	689
REV-1205BY REV-1204GY REV-1205DY	476	668	811	1118	445	624	758	1044	508	714	869	1206
REV-1506BY REV-1506GY REV-1506DY	721	1011	1228	1693	674	945	1148	1580	769	1081	1316	1826
REV-2007DY REV-2010DY REV-2011DY	1224	1717	2085	2875	1144	1605	1949	2683	1306	1836	2234	3101

Capacity Table

Liquid line Capacity

CT. 38°C / ET. 5°C / SC. 0K

Catalog No.	Capacity (U.S.R.T. {kw})							
	R134a				R404A			
	Pressure Drop (MPa)							
	0.01	0.015	0.02	0.04	0.01	0.015	0.02	0.04
UEV-1004BX	6.9 {24}	8.4 {30}	9.7 {34}	14 {48}	4.8 {17}	5.8 {21}	6.8 {24}	9.6 {34}
UEV-1205BX	12 {42}	15 {52}	17 {60}	24 {85}	8.4 {29}	10 {36}	12 {42}	17 {59}
UEV-1506BX	18 {64}	22 {78}	26 {91}	36 {128}	13 {45}	16 {55}	18 {63}	25 {89}
UEV-1003GX	6.9 {24}	8.4 {30}	10 {34}	14 {48}	4.8 {17}	5.8 {21}	6.8 {24}	9.6 {34}
UEV-1204GX	12 {42}	15 {52}	17 {60}	24 {85}	8.4 {29}	10 {36}	12 {42}	17 {59}
UEV-1506GX	18 {64}	22 {78}	26 {91}	36 {128}	13 {45}	16 {55}	18 {63}	25 {89}
UEV-2010GX	31 {109}	38 {133}	44 {154}	62 {218}	21 {76}	26 {93}	30 {107}	43 {151}
UEV-1004DX	6.9 {24}	8.4 {30}	9.7 {34}	14 {48}	4.8 {17}	5.8 {21}	6.8 {24}	9.6 {34}
UEV-1205DX	12 {42}	15 {52}	17 {60}	24 {85}	8.4 {29}	10 {36}	12 {42}	17 {59}
UEV-1506DX	18 {64}	22 {78}	26 {91}	36 {128}	13 {45}	16 {55}	18 {63}	25 {89}
UEV-2007DX	31 {109}	38 {133}	44 {154}	62 {218}	21 {76}	26 {93}	30 {107}	43 {151}
UEV-2010DX	31 {109}	38 {133}	44 {154}	62 {218}	21 {76}	26 {93}	30 {107}	43 {151}
UEV-2011DX	31 {109}	38 {133}	44 {154}	62 {218}	21 {76}	26 {93}	30 {107}	43 {151}

*Based on condensing temp. 38°C, evaporating temp. -5°C, sub-cooling 0°C. In case the conditions is different, the value is multiplied by the correction factor in the table.

Evaporating temperature correction factor

Evaporating Temp. (°C)	Correction factor	
	R134a	R404A
5	1	1
0	0.98	0.98
-10	0.94	0.93
-20	0.90	0.88
-30	0.85	0.83
-40	0.81	0.78

Subcooling correction factor

Subcooling (K)	Correction factor	
	R134a	R404A
0	1	1
10	1.12	1.17
20	1.23	1.34
30	1.35	1.51
40	1.46	1.67
50	1.58	1.83

Suction line Capacity

CT. 38°C , Superheat at valve inlet 0K

Catalog No.	Pressure drop across the valve (MPa)	Capacity (U.S.R.T. {kw})											
		R134a											
		Evaporating Temp. (°C)											
		5	0	-10	-20	-30	-40	5	0	-10	-20	-30	-40
UEV-1004BX	0.01	0.78	{2.7}	0.71	{2.5}	0.57	{2.0}	0.45	{1.6}	0.34	{1.2}	0.25	{0.90}
	0.015	1.0	{3.4}	0.86	{3.0}	0.69	{2.4}	0.54	{1.9}	0.41	{1.5}	0.30	{1.1}
	0.02	1.1	{3.9}	0.99	{3.5}	0.79	{2.8}	0.62	{2.2}	0.47	{1.7}	0.34	{1.2}
	0.04	1.5	{5.4}	1.4	{4.8}	1.1	{3.8}	0.84	{3.0}	0.62	{2.2}	0.42	{1.5}
UEV-1205BX	0.01	1.4	{4.8}	1.2	{4.3}	0.99	{3.5}	0.78	{2.8}	0.60	{2.1}	0.45	{1.6}
	0.015	1.7	{5.9}	1.5	{5.3}	1.2	{4.3}	0.95	{3.3}	0.72	{2.5}	0.53	{1.9}
	0.02	1.9	{6.8}	1.7	{6.1}	1.4	{4.9}	1.1	{3.8}	0.82	{2.9}	0.60	{2.1}
	0.04	2.7	{9.4}	2.4	{8.5}	1.9	{6.7}	1.5	{5.2}	1.1	{3.8}	0.73	{2.6}
UEV-1506BX	0.01	2.1	{7.3}	1.9	{6.6}	1.5	{5.3}	1.2	{4.2}	0.91	{3.2}	0.67	{2.4}
	0.015	2.5	{8.9}	2.3	{8.0}	1.8	{6.4}	1.4	{5.1}	1.1	{3.9}	0.80	{2.8}
	0.02	2.9	{10}	2.6	{9.2}	2.1	{7.4}	1.6	{5.8}	1.2	{4.4}	0.90	{3.2}
	0.04	4.1	{14}	3.6	{13}	2.9	{10}	2.2	{7.8}	1.6	{5.8}	1.1	{3.9}
UEV-1003GX	0.01	0.78	{2.7}	0.71	{2.5}	0.57	{2.0}	0.45	{1.6}	0.34	{1.2}	0.25	{0.90}
	0.015	0.95	{3.4}	0.86	{3.0}	0.69	{2.4}	0.54	{1.9}	0.41	{1.5}	0.30	{1.1}
	0.02	1.1	{3.9}	1.0	{3.5}	0.79	{2.8}	0.62	{2.2}	0.47	{1.7}	0.34	{1.2}
	0.04	1.5	{5.4}	1.4	{4.8}	1.1	{3.8}	0.84	{3.0}	0.62	{2.2}	0.42	{1.5}
UEV-1204GX	0.01	1.4	{4.8}	1.2	{4.3}	0.99	{3.5}	0.78	{2.8}	0.60	{2.1}	0.45	{1.6}
	0.015	1.7	{5.9}	1.5	{5.3}	1.2	{4.3}	0.95	{3.3}	0.72	{2.5}	0.53	{1.9}
	0.02	1.9	{6.8}	1.7	{6.1}	1.4	{4.9}	1.1	{3.8}	0.82	{2.9}	0.60	{2.1}
	0.04	2.7	{9.4}	2.4	{8.5}	1.9	{6.7}	1.5	{5.2}	1.1	{3.8}	0.73	{2.6}
UEV-1506GX	0.01	2.1	{7.3}	1.9	{6.6}	1.5	{5.3}	1.2	{4.2}	0.91	{3.2}	0.67	{2.4}
	0.015	2.5	{8.9}	2.3	{8.0}	1.8	{6.4}	1.4	{5.1}	1.1	{3.9}	0.80	{2.8}
	0.02	2.9	{10}	2.6	{9.2}	2.1	{7.4}	1.6	{5.8}	1.2	{4.4}	0.90	{3.2}
	0.04	4.1	{14}	3.6	{13}	2.9	{10}	2.2	{7.8}	1.6	{5.8}	1.1	{3.9}
UEV-2010GX	0.01	3.5	{12}	3.2	{11}	2.6	{9.0}	2.0	{7.1}	1.5	{5.4}	1.1	{4.0}
	0.015	4.3	{15}	3.9	{14}	3.1	{11}	2.4	{8.6}	1.9	{6.5}	1.4	{4.8}
	0.02	4.9	{17}	4.5	{16}	3.6	{13}	2.8	{9.8}	2.1	{7.4}	1.5	{5.4}
	0.04	6.9	{24}	6.2	{22}	4.9	{17}	3.8	{13}	2.8	{9.8}	1.9	{6.6}
UEV-1004DX	0.01	0.78	{2.7}	0.71	{2.5}	0.6	{2.0}	0.45	{1.6}	0.34	{1.2}	0.25	{0.90}
	0.015	0.95	{3.4}	0.86	{3.0}	0.7	{2.4}	0.54	{1.9}	0.41	{1.5}	0.30	{1.1}
	0.02	1.1	{3.9}	0.99	{3.5}	0.8	{2.8}	0.62	{2.2}	0.47	{1.7}	0.34	{1.2}
	0.04	1.5	{5.4}	1.4	{4.8}	1.1	{3.8}	0.84	{3.0}	0.62	{2.2}	0.42	{1.5}
UEV-1205DX	0.01	1.4	{4.8}	1.2	{4.3}	0.99	{3.5}	0.78	{2.8}	0.60	{2.1}	0.45	{1.6}
	0.015	1.7	{5.9}	1.5	{5.3}	1.2	{4.3}	0.95	{3.3}	0.72	{2.5}	0.53	{1.9}
	0.02	1.9	{6.8}	1.7	{6.1}	1.4	{4.9}	1.1	{3.8}	0.82	{2.9}	0.60	{2.1}
	0.04	2.7	{9.4}	2.4	{8.5}	1.9	{6.7}	1.5	{5.2}	1.1	{3.8}	0.73	{2.6}
UEV-1506DX	0.01	2.1	{7.3}	1.9	{6.6}	1.5	{5.3}	1.2	{4.2}	0.91	{3.2}	0.67	{2.4}
	0.015	2.5	{8.9}	2.3	{8.0}	1.8	{6.4}	1.4	{5.1}	1.1	{3.9}	0.80	{2.8}
	0.02	2.9	{10}	2.6	{9.2}	2.1	{7.4}	1.6	{5.8}	1.2	{4.4}	0.90	{3.2}
	0.04	4.1	{14}	3.6	{13}	2.9	{10}	2.2	{7.8}	1.6	{5.8}	1.1	{3.9}
UEV-2007DX	0.01	3.5	{12}	3.2	{11}	2.6	{9.0}	2.0	{7.1}	1.5	{5.4}	1.1	{4.0}
	0.015	4.3	{15}	3.9	{14}	3.1	{11}	2.4	{8.6}	1.9	{6.5}	1.4	{4.8}
	0.02	4.9	{17}	4.5	{16}	3.6	{13}	2.8	{9.8}	2.1	{7.4}	1.5	{5.4}
	0.04	6.9	{24}	6.2	{22}	4.9	{17}	3.8	{13}	2.8	{9.8}	1.9	{6.6}
UEV-2010DX	0.01	3.5	{12}	3.2	{11}	2.6	{9.0}	2.0	{7.1}	1.5	{5.4}	1.1	{4.0}
	0.015	4.3	{15}	3.9	{14}	3.1	{11}	2.4	{8.6}	1.9	{6.5}	1.4	{4.8}
	0.02	4.9	{17}	4.5	{16}	3.6	{13}	2.8	{9.8}	2.1	{7.4}	1.5	{5.4}
	0.04	6.9	{24}	6.2	{22}	4.9	{17}	3.8	{13}	2.8	{9.8}	1.9	{6.6}
UEV-2011DX	0.01	3.5	{12}	3.2	{11}	2.6	{9.0}	2.0	{7.1}	1.5	{5.4}	1.1	{4.0}
	0.015	4.3	{15}	3.9	{14}	3.1	{11}	2.4	{8.6}	1.9	{6.5}	1.4	{4.8}
	0.02	4.9	{17}	4.5	{16}	3.6	{13}	2.8	{9.8}	2.1	{7.4}	1.5	{5.4}
	0.04	6.9	{24}	6.2	{22}	4.9	{17}	3.8	{13}	2.8	{9.8}	1.9	{6.6}

Suction line Capacity

CT. 38°C , Superheat at valve inlet 0K

Catalog No.	Pressure drop across the valve (MPa)	Capacity (U.S.R.T. {kw})								
		R404A								
		Evaporating Temp. (°C)								
		5	0	-10	-20	-30	-40			
UEV-1004BX	0.01	0.82 {2.9}	0.75 {2.6}	0.61 {2.2}	0.49 {1.7}	0.39 {1.4}	0.30 {1.0}			
	0.015	1.0 {3.5}	0.91 {3.2}	0.75 {2.6}	0.60 {2.1}	0.47 {1.7}	0.36 {1.3}			
	0.02	1.2 {4.1}	1.1 {3.7}	0.86 {3.0}	0.69 {2.4}	0.54 {1.9}	0.41 {1.4}			
	0.04	1.6 {5.7}	1.5 {5.2}	1.2 {4.2}	0.96 {3.4}	0.75 {2.6}	0.56 {2.0}			
UEV-1205BX	0.01	1.4 {5.0}	1.3 {4.6}	1.1 {3.8}	0.86 {3.0}	0.68 {2.4}	0.52 {1.8}			
	0.015	1.8 {6.2}	1.6 {5.6}	1.3 {4.6}	1.1 {3.7}	0.83 {2.9}	0.63 {2.2}			
	0.02	2.0 {7.1}	1.8 {6.5}	1.5 {5.3}	1.2 {4.3}	0.95 {3.3}	0.72 {2.5}			
	0.04	2.8 {10}	2.6 {9.1}	2.1 {7.4}	1.7 {5.9}	1.3 {4.6}	0.97 {3.4}			
UEV-1506BX	0.01	2.2 {7.6}	2.0 {7.0}	1.6 {5.7}	1.3 {4.6}	1.0 {3.6}	0.79 {2.8}			
	0.015	2.7 {9.3}	2.4 {8.5}	2.0 {7.0}	1.6 {5.6}	1.3 {4.4}	0.95 {3.3}			
	0.02	3.1 {11}	2.8 {9.8}	2.3 {8.0}	1.8 {6.4}	1.4 {5.0}	1.1 {3.8}			
	0.04	4.3 {15}	3.9 {14}	3.2 {11}	2.5 {9.0}	2.0 {6.9}	1.5 {5.2}			
UEV-1003GX	0.01	0.82 {2.9}	0.75 {2.6}	0.61 {2.2}	0.49 {1.7}	0.39 {1.4}	0.30 {1.0}			
	0.015	1.0 {3.5}	0.91 {3.2}	0.75 {2.6}	0.60 {2.1}	0.47 {1.7}	0.36 {1.3}			
	0.02	1.2 {4.1}	1.1 {3.7}	0.86 {3.0}	0.69 {2.4}	0.54 {1.9}	0.41 {1.4}			
	0.04	1.6 {5.7}	1.5 {5.2}	1.2 {4.2}	0.96 {3.4}	0.75 {2.6}	0.56 {2.0}			
UEV-1204GX	0.01	1.4 {5.0}	1.3 {4.6}	1.1 {3.8}	0.86 {3.0}	0.68 {2.4}	0.52 {1.8}			
	0.015	1.8 {6.2}	1.6 {5.6}	1.3 {4.6}	1.1 {3.7}	0.83 {2.9}	0.63 {2.2}			
	0.02	2.0 {7.1}	1.8 {6.5}	1.5 {5.3}	1.2 {4.3}	0.95 {3.3}	0.72 {2.5}			
	0.04	2.8 {10}	2.6 {9.1}	2.1 {7.4}	1.7 {5.9}	1.3 {4.6}	0.97 {3.4}			
UEV-1506GX	0.01	2.2 {7.6}	2.0 {7.0}	1.6 {5.7}	1.3 {4.6}	1.0 {3.6}	0.79 {2.8}			
	0.015	2.7 {9.3}	2.4 {8.5}	2.0 {7.0}	1.6 {5.6}	1.3 {4.4}	0.95 {3.3}			
	0.02	3.1 {11}	2.8 {9.8}	2.3 {8.0}	1.8 {6.4}	1.4 {5.0}	1.1 {3.8}			
	0.04	4.3 {15}	3.9 {14}	3.2 {11}	2.5 {9.0}	2.0 {6.9}	1.5 {5.2}			
UEV-2010GX	0.01	3.7 {13}	3.4 {12}	2.8 {9.7}	2.2 {7.8}	1.7 {6.1}	1.3 {4.7}			
	0.015	4.5 {16}	4.1 {14}	3.4 {12}	2.7 {9.5}	2.1 {7.5}	1.6 {5.7}			
	0.02	5.2 {18}	4.7 {17}	3.9 {14}	3.1 {11}	2.4 {8.6}	1.8 {6.5}			
	0.04	7.3 {26}	6.6 {23}	5.4 {19}	4.3 {15}	3.4 {12}	2.5 {8.8}			
UEV-1004DX	0.01	0.82 {2.9}	0.75 {2.6}	0.61 {2.2}	0.49 {1.7}	0.39 {1.4}	0.30 {1.0}			
	0.015	1.0 {3.5}	0.91 {3.2}	0.75 {2.6}	0.60 {2.1}	0.47 {1.7}	0.36 {1.3}			
	0.02	1.2 {4.1}	1.1 {3.7}	0.86 {3.0}	0.69 {2.4}	0.54 {1.9}	0.41 {1.4}			
	0.04	1.6 {5.7}	1.5 {5.2}	1.2 {4.2}	0.96 {3.4}	0.75 {2.6}	0.56 {2.0}			
UEV-1205DX	0.01	1.4 {5.0}	1.3 {4.6}	1.1 {3.8}	0.86 {3.0}	0.68 {2.4}	0.52 {1.8}			
	0.015	1.8 {6.2}	1.6 {5.6}	1.3 {4.6}	1.1 {3.7}	0.83 {2.9}	0.63 {2.2}			
	0.02	2.0 {7.1}	1.8 {6.5}	1.5 {5.3}	1.2 {4.3}	0.95 {3.3}	0.72 {2.5}			
	0.04	2.8 {10}	2.6 {9.1}	2.1 {7.4}	1.7 {5.9}	1.3 {4.6}	0.97 {3.4}			
UEV-1506DX	0.01	2.2 {7.6}	2.0 {7.0}	1.6 {5.7}	1.3 {4.6}	1.0 {3.6}	0.79 {2.8}			
	0.015	2.7 {9.3}	2.4 {8.5}	2.0 {7.0}	1.6 {5.6}	1.3 {4.4}	0.95 {3.3}			
	0.02	3.1 {11}	2.8 {9.8}	2.3 {8.0}	1.8 {6.4}	1.4 {5.0}	1.1 {3.8}			
	0.04	4.3 {15}	3.9 {14}	3.2 {11}	2.5 {9.0}	2.0 {6.9}	1.5 {5.2}			
UEV-2007DX	0.01	3.7 {13}	3.4 {12}	2.8 {9.7}	2.2 {7.8}	1.7 {6.1}	1.3 {4.7}			
	0.015	4.5 {16}	4.1 {14}	3.4 {12}	2.7 {9.5}	2.1 {7.5}	1.6 {5.7}			
	0.02	5.2 {18}	4.7 {17}	3.9 {14}	3.1 {11}	2.4 {8.6}	1.8 {6.5}			
	0.04	7.3 {26}	6.6 {23}	5.4 {19}	4.3 {15}	3.4 {12}	2.5 {8.8}			
UEV-2010DX	0.01	3.7 {13}	3.4 {12}	2.8 {9.7}	2.2 {7.8}	1.7 {6.1}	1.3 {4.7}			
	0.015	4.5 {16}	4.1 {14}	3.4 {12}	2.7 {9.5}	2.1 {7.5}	1.6 {5.7}			
	0.02	5.2 {18}	4.7 {17}	3.9 {14}	3.1 {11}	2.4 {8.6}	1.8 {6.5}			
	0.04	7.3 {26}	6.6 {23}	5.4 {19}	4.3 {15}	3.4 {12}	2.5 {8.8}			
UEV-2011DX	0.01	3.7 {13}	3.4 {12}	2.8 {9.7}	2.2 {7.8}	1.7 {6.1}	1.3 {4.7}			
	0.015	4.5 {16}	4.1 {14}	3.4 {12}	2.7 {9.5}	2.1 {7.5}	1.6 {5.7}			
	0.02	5.2 {18}	4.7 {17}	3.9 {14}	3.1 {11}	2.4 {8.6}	1.8 {6.5}			
	0.04	7.3 {26}	6.6 {23}	5.4 {19}	4.3 {15}	3.4 {12}	2.5 {8.8}			

Flow Rate

Hot Gas Defrost Line

CT. 38°C, hot Gas temperature at valve inlet 50°C

Catalog No.	Hot Gas Flow Rate (kg/h)							
	R134a				R404A			
	Pressure Drop (MPa)							
	0.05	0.10	0.15	0.30	0.05	0.10	0.15	0.30
UEV-1004BX	29	40	48	65	38	53	64	89
UEV-1205BX	58	81	98	133	77	108	131	181
UEV-1506BX	92	128	154	209	120	169	206	284
UEV-1003GX	200	279	337	457	264	370	450	621
UEV-1204GX	332	463	559	757	437	613	745	1030
UEV-1506GX	515	718	868	1174	678	951	1156	1598
UEV-2010GX	29	40	48	65	38	53	64	89
UEV-1004DX	61	85	102	138	80	112	136	188
UEV-1205DX	95	133	160	217	125	175	213	295
UEV-1506DX	95	133	160	217	125	175	213	295
UEV-2007DX	229	319	386	522	301	423	514	710
UEV-2010DX	229	319	386	522	301	423	514	710
UEV-2011DX	400	559	675	913	527	740	899	1243

Capacity Table

Liquid line Capacity

CT. 38°C / ET. 5°C / SC. 0K

Catalog No.	Capacity (U.S.R.T. {kw})															
	R134a							R404A								
	Pressure Drop (MPa)															
	0.01		0.015		0.02		0.04		0.01		0.015		0.02		0.04	
ZEV-502BX	1.8	{6.2}	2.2	{7.6}	2.5	{8.7}	3.5	{12}	1.2	{4.3}	1.5	{5.2}	1.7	{6.1}	2.4	{8.6}
ZEV-603BX	2.7	{10}	3.4	{12}	3.9	{14}	5.5	{19}	1.9	{6.7}	2.3	{8.2}	2.7	{10}	3.8	{13}
ZEV-1004BX	6.0	{21}	7.4	{26}	8.5	{30}	12	{42}	4.2	{15}	5.1	{18}	5.9	{21}	8.4	{29}
ZEV-1205BX	10	{35}	12	{43}	14	{50}	20	{70}	6.9	{24}	8.5	{30}	9.8	{34}	14	{49}
ZEV-1506BX	15	{54}	19	{67}	22	{77}	31	{109}	11	{38}	13	{46}	15	{53}	21	{76}
ZEV-1003GX	6.9	{24}	8.4	{30}	10	{34}	14	{48}	4.8	{17}	5.8	{21}	6.8	{24}	9.6	{34}
ZEV-1204GX	12	{42}	15	{52}	17	{60}	24	{85}	8.4	{29}	10	{36}	12	{42}	17	{59}
ZEV-1506GX	18	{64}	22	{78}	26	{91}	36	{128}	13	{45}	16	{55}	18	{63}	25	{89}
ZEV-2006EX	31	{109}	38	{133}	44	{154}	62	{218}	21	{76}	26	{93}	30	{107}	43	{151}
ZEV-2510EX	47	{167}	58	{204}	67	{236}	95	{334}	33	{116}	40	{142}	47	{164}	66	{232}
ZEV-3213EX	67	{235}	82	{287}	94	{332}	133	{469}	46	{163}	57	{200}	66	{230}	93	{326}
ZEV-4014EX	110	{387}	135	{474}	156	{547}	220	{774}	76	{269}	94	{329}	108	{380}	153	{537}
ZEV-5020EX	155	{544}	189	{666}	219	{769}	309	{1088}	107	{378}	132	{463}	152	{534}	215	{756}
ZEV-6524EX	254	{894}	311	{1096}	360	{1265}	509	{1789}	177	{621}	216	{761}	250	{879}	353	{1243}
ZEV-6530EX	254	{894}	311	{1096}	360	{1265}	509	{1789}	177	{621}	216	{761}	250	{879}	353	{1243}
ZEV-F1203EX	10	{36}	13	{44}	15	{51}	21	{73}	7.2	{25}	8.8	{31}	10	{36}	14	{50}
ZEV-F2006EX	22	{77}	27	{95}	31	{109}	44	{155}	15	{54}	19	{66}	22	{76}	31	{107}
ZEV-F2510EX	38	{132}	46	{161}	53	{186}	75	{264}	26	{92}	32	{112}	37	{129}	52	{183}
ZEV-F3212EX	57	{200}	69	{244}	80	{282}	113	{399}	39	{139}	48	{170}	56	{196}	79	{277}

Catalog No.	Capacity (U.S.R.T. {kw})							
	R407C							
	Pressure Drop (MPa)							
	0.01		0.015		0.02		0.04	
ZEV-502BX	1.8	{6.2}	2.2	{7.6}	2.5	{8.8}	3.5	{12}
ZEV-603BX	2.8	{10}	3.4	{12}	3.9	{14}	5.6	{20}
ZEV-1004BX	6.1	{21}	7.5	{26}	8.6	{30}	12	{43}
ZEV-1205BX	10	{35}	12	{43}	14	{50}	20	{71}
ZEV-1506BX	16	{55}	19	{67}	22	{78}	31	{110}
ZEV-1003GX	0.57	{2.0}	7.0	{24}	9.8	{35}	14	{49}
ZEV-1204GX	1.0	{3.5}	12	{43}	17	{61}	24	{86}
ZEV-1506GX	1.5	{5.3}	18	{65}	26	{92}	37	{130}
ZEV-2006EX	-	-	-	-	-	-	-	-
ZEV-2510EX	-	-	-	-	-	-	-	-
ZEV-3213EX	-	-	-	-	-	-	-	-
ZEV-4014EX	-	-	-	-	-	-	-	-
ZEV-5020EX	-	-	-	-	-	-	-	-
ZEV-6524EX	-	-	-	-	-	-	-	-
ZEV-6530EX	-	-	-	-	-	-	-	-
ZEV-F1203EX	-	-	-	-	-	-	-	-
ZEV-F2006EX	-	-	-	-	-	-	-	-
ZEV-F2510EX	-	-	-	-	-	-	-	-
ZEV-F3212EX	-	-	-	-	-	-	-	-

*Based on condensing temp. 38°C, evaporating temp. -5°C, sub-cooling 0°C. In case the conditions is different, the value is multiplied by the correction factor in the table.

Evaporating temperature correction factor

Evaporating Temp. (°C)	Correction factor		
	R134a	R404A	R407C
5	1	1	1
0	0.98	0.98	0.98
-10	0.94	0.93	0.95
-20	0.90	0.88	0.92
-30	0.85	0.83	0.88
-40	0.81	0.78	0.84

Subcooling correction factor

Subcooling (K)	Correction factor		
	R134a	R404A	R407C
0	1	1	1
10	1.12	1.17	1.13
20	1.23	1.34	1.25
30	1.35	1.51	1.37
40	1.46	1.67	1.49
50	1.58	1.83	1.61

Suction line Capacity

CT. 38°C , Superheat at valve inlet 0K

Catalog No.	Pressure drop across the valve (MPa)	Capacity (U.S.R.T. {kw})							
		R134a							
		Evaporating Temp. (°C)							
		5	0	-10	-20	-30	-40		
ZEV-502BX	0.01	0.20 {0.70}	0.18 {0.63}	0.14 {0.51}	0.11 {0.40}	0.088 {0.31}	0.065 {0.23}		
	0.015	0.24 {0.86}	0.22 {0.77}	0.18 {0.62}	0.14 {0.49}	0.11 {0.37}	0.077 {0.27}		
	0.02	0.28 {0.98}	0.25 {0.89}	0.20 {0.71}	0.16 {0.56}	0.12 {0.42}	0.087 {0.31}		
	0.04	0.39 {1.4}	0.35 {1.2}	0.28 {1.0}	0.21 {0.75}	0.16 {0.55}	0.11 {0.38}		
ZEV-603BX	0.01	0.31 {1.1}	0.28 {0.99}	0.23 {0.80}	0.18 {0.63}	0.14 {0.48}	0.10 {0.36}		
	0.015	0.38 {1.3}	0.34 {1.2}	0.28 {0.97}	0.22 {0.76}	0.17 {0.58}	0.12 {0.43}		
	0.02	0.44 {1.5}	0.40 {1.4}	0.32 {1.1}	0.25 {0.87}	0.19 {0.66}	0.14 {0.48}		
	0.04	0.61 {2.2}	0.55 {1.9}	0.44 {1.5}	0.34 {1.2}	0.25 {0.87}	0.17 {0.59}		
ZEV-1004BX	0.01	0.68 {2.4}	0.62 {2.2}	0.50 {1.7}	0.39 {1.4}	0.30 {1.1}	0.22 {0.78}		
	0.015	0.83 {2.9}	0.75 {2.6}	0.61 {2.1}	0.47 {1.7}	0.36 {1.3}	0.27 {0.93}		
	0.02	0.96 {3.4}	0.87 {3.0}	0.69 {2.4}	0.54 {1.9}	0.41 {1.4}	0.30 {1.0}		
	0.04	1.3 {4.7}	1.2 {4.2}	0.96 {3.4}	0.74 {2.6}	0.54 {1.9}	0.37 {1.3}		
ZEV-1205BX	0.01	1.1 {4.0}	1.0 {3.6}	0.82 {2.9}	0.65 {2.3}	0.50 {1.8}	0.37 {1.3}		
	0.015	1.4 {4.9}	1.2 {4.4}	1.0 {3.5}	0.79 {2.8}	0.60 {2.1}	0.44 {1.5}		
	0.02	1.6 {5.6}	1.4 {5.0}	1.2 {4.0}	0.90 {3.2}	0.68 {2.4}	0.49 {1.7}		
	0.04	2.2 {7.8}	2.0 {7.0}	1.6 {5.6}	1.2 {4.3}	0.90 {3.2}	0.61 {2.1}		
ZEV-1506BX	0.01	1.8 {6.2}	1.6 {5.6}	1.3 {4.5}	1.0 {3.5}	0.77 {2.7}	0.57 {2.0}		
	0.015	2.1 {7.5}	1.9 {6.8}	1.6 {5.5}	1.2 {4.3}	0.93 {3.3}	0.68 {2.4}		
	0.02	2.5 {8.7}	2.2 {7.8}	1.8 {6.3}	1.4 {4.9}	1.1 {3.7}	0.77 {2.7}		
	0.04	3.4 {12}	3.1 {11}	2.5 {8.6}	1.9 {6.7}	1.4 {4.9}	0.94 {3.3}		
ZEV-1003GX	0.01	0.78 {2.7}	0.71 {2.5}	0.57 {2.0}	0.45 {1.6}	0.34 {1.2}	0.25 {0.90}		
	0.015	0.95 {3.4}	0.86 {3.0}	0.69 {2.4}	0.54 {1.9}	0.41 {1.5}	0.30 {1.1}		
	0.02	1.1 {3.9}	0.99 {3.5}	0.79 {2.8}	0.62 {2.2}	0.47 {1.7}	0.34 {1.2}		
	0.04	1.5 {5.4}	1.4 {4.8}	1.1 {3.8}	0.84 {3.0}	0.62 {2.2}	0.42 {1.5}		
ZEV-1204GX	0.01	1.4 {4.8}	1.2 {4.3}	0.99 {3.5}	0.78 {2.8}	0.60 {2.1}	0.45 {1.6}		
	0.015	1.7 {5.9}	1.5 {5.3}	1.2 {4.3}	0.95 {3.3}	0.72 {2.5}	0.53 {1.9}		
	0.02	1.9 {6.8}	1.7 {6.1}	1.4 {4.9}	1.1 {3.8}	0.82 {2.9}	0.60 {2.1}		
	0.04	2.7 {9.4}	2.4 {8.5}	1.9 {6.7}	1.5 {5.2}	1.1 {3.8}	0.73 {2.6}		
ZEV-1506GX	0.01	2.1 {7.3}	1.9 {6.6}	1.5 {5.3}	1.2 {4.2}	0.91 {3.2}	0.67 {2.4}		
	0.015	2.5 {8.9}	2.3 {8.0}	1.8 {6.4}	1.4 {5.1}	1.1 {3.9}	0.80 {2.8}		
	0.02	2.9 {10}	2.6 {9.2}	2.1 {7.4}	1.6 {5.8}	1.2 {4.4}	0.90 {3.2}		
	0.04	4.1 {14}	3.6 {13}	2.9 {10}	2.2 {7.8}	1.6 {5.8}	1.1 {3.9}		
ZEV-2006EX	0.01	3.5 {12}	3.2 {11}	2.6 {9.0}	2.0 {7.1}	1.5 {5.4}	1.1 {4.0}		
	0.015	4.3 {15}	3.9 {14}	3.1 {11}	2.4 {8.6}	1.9 {6.5}	1.4 {4.8}		
	0.02	4.9 {17}	4.5 {16}	3.6 {13}	2.8 {9.8}	2.1 {7.4}	1.5 {5.4}		
	0.04	6.9 {24}	6.2 {22}	4.9 {17}	3.8 {13}	2.8 {9.8}	1.9 {6.6}		
ZEV-2510EX	0.01	5.4 {19}	4.9 {17}	3.9 {14}	3.1 {11}	2.4 {8.3}	1.8 {6.2}		
	0.015	6.6 {23}	5.9 {21}	4.8 {17}	3.7 {13}	2.9 {10}	2.1 {7.4}		
	0.02	7.6 {27}	6.8 {24}	5.5 {19}	4.3 {15}	3.2 {11}	2.3 {8.3}		
	0.04	11 {37}	9.5 {33}	7.5 {27}	5.8 {20}	4.3 {15}	2.9 {10}		
ZEV-3213EX	0.01	7.6 {27}	6.8 {24}	5.5 {19}	4.3 {15}	3.3 {12}	2.5 {8.7}		
	0.015	9.2 {33}	8.4 {29}	6.7 {24}	5.3 {19}	4.0 {14}	2.9 {10}		
	0.02	11 {37}	9.6 {34}	7.7 {27}	6.0 {21}	4.6 {16}	3.3 {12}		
	0.04	15 {52}	13 {47}	11 {37}	8.2 {29}	6.0 {21}	4.1 {14}		
ZEV-4014EX	0.01	13 {44}	11 {40}	9.1 {32}	7.2 {25}	5.5 {19}	4.1 {14}		
	0.015	15 {54}	14 {48}	11 {39}	8.7 {31}	6.6 {23}	4.9 {17}		
	0.02	18 {62}	16 {56}	13 {45}	9.9 {35}	7.5 {26}	5.4 {19}		
	0.04	24 {86}	22 {77}	17 {61}	13 {47}	9.9 {35}	6.7 {24}		
ZEV-5020EX	0.01	18 {62}	16 {56}	13 {45}	10 {35}	7.7 {27}	5.7 {20}		
	0.015	21 {75}	19 {68}	16 {55}	12 {43}	9.3 {33}	6.8 {24}		
	0.02	25 {87}	22 {78}	18 {63}	14 {49}	11 {37}	7.7 {27}		
	0.04	34 {121}	31 {109}	25 {86}	19 {67}	14 {49}	9.4 {33}		
ZEV-6524EX	0.01	29 {102}	26 {92}	21 {74}	17 {58}	13 {45}	9.4 {33}		
	0.015	35 {124}	32 {112}	26 {90}	20 {71}	15 {54}	11 {39}		
	0.02	41 {143}	37 {129}	29 {103}	23 {81}	17 {61}	13 {44}		
	0.04	57 {199}	51 {179}	40 {142}	31 {109}	23 {81}	16 {55}		

Suction line Capacity

CT. 38°C , Superheat at valve inlet 0K

Catalog No.	Pressure drop across the valve (MPa)	Capacity (U.S.R.T. {kw})							
		R134a							
		Evaporating Temp. (°C)							
		5	0	-10	-20	-30	-40		
ZEV-6530EX	0.01	29 {102}	26 {92}	21 {74}	17 {58}	13 {45}	9.4 {33}		
	0.015	35 {124}	32 {112}	26 {90}	20 {71}	15 {54}	11 {39}		
	0.02	41 {143}	37 {129}	29 {103}	23 {81}	17 {61}	13 {44}		
	0.04	57 {199}	51 {179}	40 {142}	31 {109}	23 {81}	16 {55}		
ZEV-F1203EX	0.01	1.2 {4.2}	1.0 {3.6}	0.85 {3.0}	0.68 {2.4}	0.51 {1.8}	0.34 {1.2}		
	0.015	1.4 {5.0}	1.3 {4.5}	1.0 {3.6}	0.81 {2.9}	0.62 {2.2}	0.46 {1.6}		
	0.02	1.6 {5.8}	1.5 {5.2}	1.2 {4.2}	0.93 {3.3}	0.71 {2.5}	0.51 {1.8}		
	0.04	2.3 {8.1}	2.1 {7.3}	1.6 {5.8}	1.3 {4.4}	0.93 {3.3}	0.63 {2.2}		
ZEV-F2006EX	0.01	2.5 {9.0}	2.2 {7.7}	1.8 {6.4}	1.5 {5.1}	1.1 {3.8}	0.73 {2.6}		
	0.015	3.1 {11}	2.8 {9.7}	2.2 {7.8}	1.7 {6.1}	1.3 {4.7}	1.0 {3.4}		
	0.02	3.5 {12}	3.2 {11}	2.5 {8.9}	2.0 {7.0}	1.5 {5.3}	1.1 {3.8}		
	0.04	4.9 {17}	4.4 {15}	3.5 {12}	2.7 {9.5}	2.0 {7.0}	1.3 {4.7}		
ZEV-F2510EX	0.01	4.3 {15}	3.7 {13}	3.1 {11}	2.5 {8.7}	1.9 {6.5}	1.2 {4.4}		
	0.015	5.2 {18}	4.7 {17}	3.8 {13}	3.0 {10}	2.3 {7.9}	1.7 {5.8}		
	0.02	6.0 {21}	5.4 {19}	4.3 {15}	3.4 {12}	2.6 {9.0}	1.9 {6.5}		
	0.04	8.3 {29}	7.5 {26}	6.0 {21}	4.6 {16}	3.4 {12}	2.3 {8.0}		
ZEV-F3212EX	0.01	6.6 {23}	5.6 {20}	4.7 {17}	3.8 {13}	2.8 {9.9}	1.9 {6.6}		
	0.015	7.9 {28}	7.1 {25}	5.7 {20}	4.5 {16}	3.4 {12}	2.5 {8.8}		
	0.02	9.0 {32}	8.2 {29}	6.5 {23}	5.1 {18}	3.9 {14}	2.8 {9.9}		
	0.04	13 {44}	11 {40}	9.0 {32}	6.9 {24}	5.1 {18}	3.5 {12}		

Suction line Capacity

CT. 38°C , Superheat at valve inlet 0K

Catalog No.	Pressure drop across the valve (MPa)	Capacity (U.S.R.T. {kw})							
		R404A							
		Evaporating Temp. (°C)							
		5	0	-10	-20	-30	-40		
ZEV-502BX	0.01	0.21 {0.73}	0.19 {0.67}	0.16 {0.55}	0.13 {0.44}	0.099 {0.35}	0.076 {0.27}		
	0.015	0.26 {0.90}	0.23 {0.82}	0.19 {0.67}	0.15 {0.54}	0.12 {0.42}	0.092 {0.32}		
	0.02	0.29 {1.0}	0.27 {0.94}	0.22 {0.77}	0.18 {0.62}	0.14 {0.49}	0.10 {0.37}		
	0.04	0.41 {1.5}	0.38 {1.3}	0.31 {1.1}	0.25 {0.86}	0.19 {0.67}	0.14 {0.50}		
ZEV-603BX	0.01	0.33 {1.2}	0.30 {1.1}	0.25 {0.86}	0.20 {0.69}	0.16 {0.55}	0.12 {0.42}		
	0.015	0.40 {1.4}	0.37 {1.3}	0.30 {1.1}	0.24 {0.85}	0.19 {0.66}	0.14 {0.51}		
	0.02	0.46 {1.6}	0.42 {1.5}	0.34 {1.2}	0.28 {0.97}	0.22 {0.76}	0.16 {0.58}		
	0.04	0.65 {2.3}	0.59 {2.1}	0.48 {1.7}	0.38 {1.4}	0.30 {1.0}	0.22 {0.78}		
ZEV-1004BX	0.01	0.72 {2.5}	0.65 {2.3}	0.54 {1.9}	0.43 {1.5}	0.34 {1.2}	0.26 {0.91}		
	0.015	0.88 {3.1}	0.80 {2.8}	0.66 {2.3}	0.53 {1.9}	0.41 {1.5}	0.31 {1.1}		
	0.02	1.0 {3.6}	0.92 {3.2}	0.75 {2.7}	0.61 {2.1}	0.47 {1.7}	0.36 {1.3}		
	0.04	1.4 {5.0}	1.3 {4.5}	1.1 {3.7}	0.84 {3.0}	0.65 {2.3}	0.49 {1.7}		
ZEV-1205BX	0.01	1.2 {4.2}	1.1 {3.8}	0.89 {3.1}	0.72 {2.5}	0.56 {2.0}	0.43 {1.5}		
	0.015	1.5 {5.1}	1.3 {4.7}	1.1 {3.8}	0.87 {3.1}	0.68 {2.4}	0.52 {1.8}		
	0.02	1.7 {5.9}	1.5 {5.4}	1.3 {4.4}	1.0 {3.5}	0.78 {2.8}	0.60 {2.1}		
	0.04	2.3 {8.3}	2.1 {7.5}	1.7 {6.1}	1.4 {4.9}	1.1 {3.8}	0.81 {2.8}		
ZEV-1506BX	0.01	1.8 {6.5}	1.7 {5.9}	1.4 {4.9}	1.1 {3.9}	0.87 {3.1}	0.67 {2.3}		
	0.015	2.3 {7.9}	2.1 {7.2}	1.7 {5.9}	1.4 {4.8}	1.1 {3.7}	0.81 {2.8}		
	0.02	2.6 {9.1}	2.4 {8.3}	1.9 {6.8}	1.6 {5.5}	1.2 {4.3}	0.92 {3.3}		
	0.04	3.6 {13}	3.3 {12}	2.7 {9.5}	2.2 {7.6}	1.7 {5.9}	1.3 {4.4}		
ZEV-1003GX	0.01	0.8 {2.9}	0.75 {2.6}	0.61 {2.2}	0.49 {1.7}	0.39 {1.4}	0.30 {1.0}		
	0.015	1.0 {3.5}	0.91 {3.2}	0.75 {2.6}	0.60 {2.1}	0.47 {1.7}	0.36 {1.3}		
	0.02	1.2 {4.1}	1.1 {3.7}	0.86 {3.0}	0.69 {2.4}	0.54 {1.9}	0.41 {1.4}		
	0.04	1.6 {5.7}	1.5 {5.2}	1.2 {4.2}	0.96 {3.4}	0.75 {2.6}	0.56 {2.0}		

Suction line Capacity

CT. 38°C , Superheat at valve inlet 0K

Catalog No.	Pressure drop across the valve (MPa)	Capacity (U.S.R.T. {kw})							
		R404A							
		Evaporating Temp. (°C)							
		5	0	-10	-20	-30	-40		
ZEV-1204GX	0.01	1.4 {5.0}	1.3 {4.6}	1.1 {3.8}	0.86 {3.0}	0.68 {2.4}	0.52 {1.8}		
	0.015	1.8 {6.2}	1.6 {5.6}	1.3 {4.6}	1.1 {3.7}	0.83 {2.9}	0.63 {2.2}		
	0.02	2.0 {7.1}	1.8 {6.5}	1.5 {5.3}	1.2 {4.3}	0.95 {3.3}	0.72 {2.5}		
	0.04	2.8 {10}	2.6 {9.1}	2.1 {7.4}	1.7 {5.9}	1.3 {4.6}	0.97 {3.4}		
ZEV-1506GX	0.01	2.2 {7.6}	2.0 {7.0}	1.6 {5.7}	1.3 {4.6}	1.0 {3.6}	0.79 {2.8}		
	0.015	2.7 {9.3}	2.4 {8.5}	2.0 {7.0}	1.6 {5.6}	1.3 {4.4}	0.95 {3.3}		
	0.02	3.1 {11}	2.8 {9.8}	2.3 {8.0}	1.8 {6.4}	1.4 {5.0}	1.1 {3.8}		
	0.04	4.3 {15}	3.9 {14}	3.2 {11}	2.5 {9.0}	2.0 {6.9}	1.5 {5.2}		
ZEV-2006EX	0.01	3.7 {13}	3.4 {12}	2.8 {9.7}	2.2 {7.8}	1.7 {6.1}	1.3 {4.7}		
	0.015	4.5 {16}	4.1 {14}	3.4 {12}	2.7 {9.5}	2.1 {7.5}	1.6 {5.7}		
	0.02	5.2 {18}	4.7 {17}	3.9 {14}	3.1 {11}	2.4 {8.6}	1.8 {6.5}		
	0.04	7.3 {26}	6.6 {23}	5.4 {19}	4.3 {15}	3.4 {12}	2.5 {8.8}		
ZEV-2510EX	0.01	5.7 {20}	5.2 {18}	4.2 {15}	3.4 {12}	2.7 {9.4}	2.0 {7.2}		
	0.015	6.9 {24}	6.3 {22}	5.2 {18}	4.2 {15}	3.3 {11}	2.5 {8.7}		
	0.02	8.0 {28}	7.3 {26}	5.9 {21}	4.8 {17}	3.7 {13}	2.8 {10}		
	0.04	11 {39}	10 {36}	8.3 {29}	6.6 {23}	5.1 {18}	3.8 {14}		
ZEV-3213EX	0.01	7.9 {28}	7.2 {25}	5.9 {21}	4.8 {17}	3.8 {13}	2.9 {10}		
	0.015	9.7 {34}	8.9 {31}	7.3 {26}	5.8 {21}	4.6 {16}	3.5 {12}		
	0.02	11 {39}	10 {36}	8.4 {29}	6.7 {24}	5.2 {18}	4.0 {14}		
	0.04	16 {55}	14 {50}	12 {41}	9.3 {33}	7.2 {25}	5.4 {19}		
ZEV-4014EX	0.01	13 {46}	12 {42}	9.8 {35}	7.9 {28}	6.2 {22}	4.7 {17}		
	0.015	16 {56}	15 {51}	12 {42}	9.6 {34}	7.5 {27}	5.8 {20}		
	0.02	18 {65}	17 {59}	14 {49}	11 {39}	8.7 {30}	6.6 {23}		
	0.04	26 {91}	24 {83}	19 {68}	15 {54}	12 {42}	8.9 {31}		
ZEV-5020EX	0.01	18 {65}	17 {59}	14 {49}	11 {39}	9 {31}	6.7 {23}		
	0.015	23 {79}	21 {72}	17 {59}	14 {48}	11 {37}	8.1 {28}		
	0.02	26 {91}	24 {83}	19 {68}	16 {55}	12 {43}	9.2 {33}		
	0.04	36 {128}	33 {117}	27 {95}	22 {76}	17 {59}	13 {44}		
ZEV-6524EX	0.01	30 {107}	28 {97}	23 {80}	18 {64}	14 {50}	11 {39}		
	0.015	37 {130}	34 {119}	28 {97}	22 {78}	17 {61}	13 {47}		
	0.02	43 {150}	39 {137}	32 {112}	26 {90}	20 {70}	15 {53}		
	0.04	60 {211}	55 {192}	45 {157}	36 {125}	28 {97}	21 {72}		
ZEV-6530EX	0.01	30 {107}	28 {97}	23 {80}	18 {64}	14 {50}	11 {39}		
	0.015	37 {130}	34 {119}	28 {97}	22 {78}	17 {61}	13 {47}		
	0.02	43 {150}	39 {137}	32 {112}	26 {90}	20 {70}	15 {53}		
	0.04	60 {211}	55 {192}	45 {157}	36 {125}	28 {97}	21 {72}		
ZEV-F1203EX	0.01	1.2 {4.2}	1.1 {3.9}	0.94 {3.3}	0.77 {2.7}	0.60 {2.1}	0.43 {1.5}		
	0.015	1.5 {5.3}	1.4 {4.8}	1.1 {4.0}	0.90 {3.2}	0.71 {2.5}	0.54 {1.9}		
	0.02	1.7 {6.1}	1.6 {5.6}	1.3 {4.5}	1.0 {3.6}	0.81 {2.9}	0.62 {2.2}		
	0.04	2.4 {8.5}	2.2 {7.8}	1.8 {6.4}	1.4 {5.1}	1.1 {3.9}	0.83 {2.9}		
ZEV-F2006EX	0.01	2.5 {9.0}	2.4 {8.3}	2.0 {7.0}	1.6 {5.8}	1.3 {4.5}	0.91 {3.2}		
	0.015	3.2 {11}	2.9 {10}	2.4 {8.4}	1.9 {6.8}	1.5 {5.3}	1.2 {4.0}		
	0.02	3.7 {13}	3.4 {12}	2.8 {9.7}	2.2 {7.8}	1.7 {6.1}	1.3 {4.6}		
	0.04	5.2 {18}	4.7 {17}	3.9 {14}	3.1 {11}	2.4 {8.4}	1.8 {6.3}		
ZEV-F2510EX	0.01	4.3 {15}	4.0 {14}	3.4 {12}	2.8 {9.8}	2.2 {7.6}	1.5 {5.5}		
	0.015	5.5 {19}	5.0 {18}	4.1 {14}	3.3 {12}	2.6 {9.0}	2.0 {6.9}		
	0.02	6.3 {22}	5.7 {20}	4.7 {17}	3.8 {13}	2.9 {10}	2.2 {7.9}		
	0.04	8.8 {31}	8.0 {28}	6.6 {23}	5.2 {18}	4.1 {14}	3.0 {11}		
ZEV-F3212EX	0.01	6.6 {23}	6.1 {21}	5.2 {18}	4.2 {15}	3.3 {12}	2.3 {8.3}		
	0.015	8.3 {29}	7.5 {26}	6.2 {22}	5.0 {17}	3.9 {14}	3.0 {10}		
	0.02	9.5 {33}	8.7 {31}	7.1 {25}	5.7 {20}	4.5 {16}	3.4 {12}		
	0.04	13 {47}	12 {43}	9.9 {35}	7.9 {28}	6.1 {22}	4.6 {16}		

Suction line Capacity

CT. 38°C , Superheat at valve inlet 0K

Catalog No.	Pressure Drop (MPa)	Capacity (U.S.R.T. {kw})							
		R407C							
		Evaporating Temp. (°C)							
		5	0	-10	-20	-30	-40		
ZEV-502BX	0.01	0.24 {0.84}	0.22 {0.77}	0.18 {0.63}	0.14 {0.50}	0.11 {0.40}	0.085 {0.30}		
	0.015	0.29 {1.0}	0.27 {0.94}	0.22 {0.77}	0.17 {0.61}	0.14 {0.48}	0.10 {0.36}		
	0.02	0.34 {1.2}	0.31 {1.1}	0.25 {0.88}	0.20 {0.71}	0.16 {0.55}	0.12 {0.41}		
	0.04	0.47 {1.7}	0.43 {1.5}	0.35 {1.2}	0.28 {0.97}	0.21 {0.74}	0.15 {0.54}		
ZEV-603BX	0.01	0.38 {1.3}	0.34 {1.2}	0.28 {0.99}	0.23 {0.79}	0.18 {0.62}	0.13 {0.47}		
	0.015	0.46 {1.6}	0.42 {1.5}	0.34 {1.2}	0.27 {0.96}	0.21 {0.75}	0.16 {0.57}		
	0.02	0.53 {1.9}	0.48 {1.7}	0.39 {1.4}	0.31 {1.1}	0.24 {0.86}	0.18 {0.64}		
	0.04	0.74 {2.6}	0.67 {2.4}	0.55 {1.9}	0.43 {1.5}	0.33 {1.2}	0.24 {0.85}		
ZEV-1004BX	0.01	0.82 {2.9}	0.75 {2.6}	0.61 {2.2}	0.49 {1.7}	0.39 {1.4}	0.29 {1.0}		
	0.015	1.0 {3.5}	0.92 {3.2}	0.75 {2.6}	0.60 {2.1}	0.47 {1.6}	0.35 {1.2}		
	0.02	1.2 {4.1}	1.1 {3.7}	0.86 {3.0}	0.69 {2.4}	0.53 {1.9}	0.40 {1.4}		
	0.04	1.6 {5.7}	1.5 {5.2}	1.2 {4.2}	0.95 {3.3}	0.73 {2.6}	0.53 {1.9}		
ZEV-1205BX	0.01	1.4 {4.8}	1.2 {4.4}	1.0 {3.6}	0.82 {2.9}	0.64 {2.2}	0.49 {1.7}		
	0.015	1.7 {5.9}	1.5 {5.3}	1.2 {4.4}	0.99 {3.5}	0.78 {2.7}	0.58 {2.1}		
	0.02	1.9 {6.8}	1.7 {6.2}	1.4 {5.0}	1.1 {4.0}	0.89 {3.1}	0.66 {2.3}		
	0.04	2.7 {9.5}	2.4 {8.6}	2.0 {7.0}	1.6 {5.5}	1.2 {4.2}	0.88 {3.1}		
ZEV-1506BX	0.01	2.1 {7.4}	1.9 {6.8}	1.6 {5.6}	1.3 {4.5}	0.99 {3.5}	0.75 {2.6}		
	0.015	2.6 {9.1}	2.4 {8.3}	1.9 {6.8}	1.5 {5.4}	1.2 {4.2}	0.91 {3.2}		
	0.02	3.0 {10}	2.7 {9.5}	2.2 {7.8}	1.8 {6.2}	1.4 {4.8}	1.0 {3.6}		
	0.04	4.2 {15}	3.8 {13}	3.1 {11}	2.4 {8.6}	1.9 {6.6}	1.4 {4.8}		
ZEV-1003GX	0.01	0.94 {3.3}	0.86 {3.0}	0.70 {2.5}	0.56 {2.0}	0.44 {1.5}	0.33 {1.2}		
	0.015	1.2 {4.0}	1.0 {3.7}	0.86 {3.0}	0.69 {2.4}	0.53 {1.9}	0.40 {1.4}		
	0.02	1.3 {4.7}	1.2 {4.2}	0.98 {3.5}	0.79 {2.8}	0.61 {2.1}	0.46 {1.6}		
	0.04	1.9 {6.5}	1.7 {5.9}	1.4 {4.8}	1.08 {3.8}	0.83 {2.9}	0.60 {2.1}		
ZEV-1204GX	0.01	1.6 {5.8}	1.5 {5.3}	1.2 {4.3}	0.99 {3.5}	0.77 {2.7}	0.59 {2.1}		
	0.015	2.0 {7.1}	1.8 {6.4}	1.5 {5.3}	1.2 {4.2}	0.94 {3.3}	0.71 {2.5}		
	0.02	2.3 {8.2}	2.1 {7.4}	1.7 {6.1}	1.4 {4.8}	1.1 {3.8}	0.80 {2.8}		
	0.04	3.2 {11}	3.0 {10}	2.4 {8.4}	1.9 {6.7}	1.5 {5.1}	1.1 {3.7}		
ZEV-1506GX	0.01	2.5 {8.8}	2.3 {8.0}	1.9 {6.5}	1.5 {5.2}	1.2 {4.1}	0.89 {3.1}		
	0.015	3.0 {11}	2.8 {9.8}	2.3 {8.0}	1.8 {6.4}	1.4 {5.0}	1.1 {3.8}		
	0.02	3.5 {12}	3.2 {11}	2.6 {9.2}	2.1 {7.3}	1.6 {5.7}	1.2 {4.3}		
	0.04	4.9 {17}	4.5 {16}	3.6 {13}	2.9 {10}	2.2 {7.7}	1.6 {5.6}		

Flow Rate

Hot Gas Defrost Line

CT. 38°C, hot Gas temperature at valve inlet 50°C

Catalog No.	Hot Gas Flow Rate (kg/h)							
	R134a				R404A			
	Pressure Drop (MPa)							
	0.05	0.10	0.15	0.30	0.05	0.10	0.15	0.30
ZEV-502BX	58	81	98	133	77	108	131	181
ZEV-603BX	92	128	154	209	120	169	206	284
ZEV-1004BX	200	279	337	457	264	370	450	621
ZEV-1205BX	332	463	559	757	437	613	745	1030
ZEV-1506BX	515	718	868	1174	678	951	1156	1598
ZEV-1003GX	229	319	386	522	301	423	514	710
ZEV-1204GX	400	559	675	913	527	740	899	1243
ZEV-1506GX	606	846	1022	1383	798	1121	1362	1882
ZEV-2006EX	1030	1437	1735	2348	1355	1903	2313	3196
ZEV-2510EX	1579	2203	2661	3601	2078	2918	3547	4900
ZEV-3213EX	2220	3097	3741	5062	2922	4102	4986	6889
ZEV-4014EX	3661	5109	6171	8350	4819	6765	8224	11363
ZEV-5020EX	5149	7184	8677	11742	6777	9514	11565	15979
ZEV-6524EX	8467	11814	14269	19309	11145	15645	19018	26276
ZEV-6530EX	8467	11814	14269	19309	11145	15645	19018	26276
ZEV-F1203EX	343	479	578	783	452	634	771	1065
ZEV-F2006EX	732	1022	1234	1670	964	1353	1645	2273
ZEV-F2510EX	1247	1740	2102	2844	1642	2304	2801	3870
ZEV-F3212EX	1888	2634	3182	4305	2485	3488	4240	5859

Catalog No.	Hot Gas Flow Rate (kg/h)			
	R407C			
	Pressure Drop (MPa)			
	0.05	0.10	0.15	0.30
ZEV-502BX	66	93	113	155
ZEV-603BX	104	146	177	243
ZEV-1004BX	228	319	387	533
ZEV-1205BX	377	529	642	883
ZEV-1506BX	585	820	996	1370
ZEV-1003GX	260	365	443	609
ZEV-1204GX	455	638	774	1065
ZEV-1506GX	689	966	1173	1613
ZEV-2006EX	-	-	-	-
ZEV-2510EX	-	-	-	-
ZEV-3213EX	-	-	-	-
ZEV-4014EX	-	-	-	-
ZEV-5020EX	-	-	-	-
ZEV-6524EX	-	-	-	-
ZEV-6530EX	-	-	-	-
ZEV-F1203EX	-	-	-	-
ZEV-F2006EX	-	-	-	-
ZEV-F2510EX	-	-	-	-
ZEV-F3212EX	-	-	-	-

Capacity Table

Liquid line Capacity

CT. 38°C / ET. 5°C / SC. 0K

Catalog No.	Capacity (U.S.R.T. {kw})							
	R134a				R404A			
	Pressure Drop (MPa)							
	0.01	0.015	0.02	0.04	0.01	0.015	0.02	0.04
JEV-1203EX	10 {36}	13 {44}	15 {51}	21 {73}	7.2 {25}	8.8 {31}	10 {36}	14 {50}
JEV-2006EX	22 {77}	27 {95}	31 {109}	44 {155}	15 {54}	19 {66}	22 {76}	31 {107}
JEV-2510EX	38 {132}	46 {161}	53 {186}	75 {264}	26 {92}	32 {112}	37 {129}	52 {183}
JEV-3212EX	57 {200}	69 {244}	80 {282}	113 {399}	39 {139}	48.3 {170}	56 {196}	79 {277}

*Based on condensing temp. 38°C, evaporating temp. -5°C, sub-cooling 0°C. In case the conditions is different, the value is multiplied by the correction factor in the table.

Evaporating temperature correction factor

Evaporating Temp. (°C)	Correction factor	
	R134a	R404A
5	1	1
0	0.98	0.98
-10	0.94	0.93
-20	0.90	0.88
-30	0.85	0.83
-40	0.81	0.78

Subcooling correction factor

Subcooling (K)	Correction factor	
	R134a	R404A
0	1	1
10	1.12	1.17
20	1.23	1.34
30	1.35	1.51
40	1.46	1.67
50	1.58	1.83

Suction line Capacity

CT. 38°C , Superheat at valve inlet 0K

Catalog No.	Pressure drop across the valve (MPa)	Capacity (U.S.R.T. {kw})					
		R134a					
		Evaporating Temp. (°C)					
		5	0	-10	-20	-30	-40
JEV-1203EX	0.01	1.19 {4.2}	1.02 {3.6}	0.85 {3.0}	0.68 {2.4}	0.51 {1.8}	0.34 {1.20}
	0.015	1.4 {5.0}	1.29 {4.5}	1.04 {3.6}	0.81 {2.9}	0.62 {2.2}	0.46 {1.6}
	0.02	1.6 {5.8}	1.48 {5.2}	1.19 {4.2}	0.93 {3.3}	0.71 {2.5}	0.51 {1.8}
	0.04	2.3 {8.1}	2.1 {7.3}	1.6 {5.8}	1.26 {4.4}	0.93 {3.3}	0.63 {2.2}
JEV-2006EX	0.01	2.5 {9.0}	2.2 {7.7}	1.82 {6.4}	1.46 {5.1}	1.09 {3.8}	0.73 {2.6}
	0.015	3.1 {10.7}	2.8 {9.7}	2.2 {7.8}	1.74 {6.1}	1.32 {4.7}	0.97 {3.4}
	0.02	3.5 {12.3}	3.2 {11.1}	2.5 {8.9}	2.0 {7.0}	1.50 {5.3}	1.09 {3.8}
	0.04	4.9 {17.2}	4.4 {15.5}	3.5 {12.3}	2.7 {9.5}	2.0 {7.0}	1.34 {4.7}
JEV-2510EX	0.01	4.3 {15.3}	3.7 {13.1}	3.1 {10.9}	2.5 {8.7}	1.86 {6.5}	1.24 {4.4}
	0.015	5.2 {18.3}	4.7 {16.5}	3.8 {13.3}	3.0 {10.4}	2.3 {7.9}	1.65 {5.8}
	0.02	6.0 {21}	5.4 {19.0}	4.3 {15.2}	3.4 {11.9}	2.6 {9.0}	1.85 {6.5}
	0.04	8.3 {29}	7.5 {26}	6.0 {21}	4.6 {16.1}	3.4 {11.9}	2.3 {8.0}
JEV-3212EX	0.01	6.57 {23.1}	5.63 {19.8}	4.69 {16.5}	3.75 {13.2}	2.81 {9.9}	1.88 {6.60}
	0.015	7.87 {27.7}	7.10 {25.0}	5.71 {20.1}	4.48 {15.7}	3.41 {12.0}	2.50 {8.8}
	0.02	9.0 {31.8}	8.2 {28.7}	6.55 {23.0}	5.12 {18.0}	3.88 {13.6}	2.81 {9.9}
	0.04	12.6 {44.3}	11.3 {39.9}	9.0 {31.7}	6.94 {24.4}	5.11 {18.0}	3.46 {12.2}

Catalog No.	Pressure drop (MPa)	Capacity (U.S.R.T. {kw})					
		R404A					
		Evaporating Temp. (°C)					
		5	0	-10	-20	-30	-40
JEV-1203EX	0.01	1.19 {4.2}	1.11 {3.9}	0.94 {3.3}	0.77 {2.7}	0.60 {2.1}	0.43 {1.5}
	0.015	1.5 {5.3}	1.37 {4.8}	1.12 {4.0}	0.90 {3.2}	0.71 {2.5}	0.54 {1.9}
	0.02	1.7 {6.1}	1.6 {5.6}	1.29 {4.5}	1.04 {3.6}	0.81 {2.9}	0.62 {2.2}
	0.04	2.4 {8.5}	2.2 {7.8}	1.8 {6.4}	1.44 {5.1}	1.12 {3.9}	0.83 {2.9}
JEV-2006EX	0.01	2.5 {9.0}	2.4 {8.3}	2.0 {7.0}	1.64 {5.8}	1.27 {4.5}	0.91 {3.2}
	0.015	3.2 {11.3}	2.9 {10.3}	2.4 {8.4}	1.9 {6.8}	1.51 {5.3}	1.15 {4.0}
	0.02	3.7 {13.0}	3.4 {11.8}	2.8 {9.7}	2.2 {7.8}	1.73 {6.1}	1.31 {4.6}
	0.04	5.2 {18}	4.7 {16.6}	3.9 {13.6}	3.1 {10.8}	2.4 {8.4}	1.78 {6.3}
JEV-2510EX	0.01	4.3 {15.3}	4.0 {14.2}	3.4 {12.0}	2.8 {9.8}	2.2 {7.6}	1.55 {5.5}
	0.015	5.5 {19.2}	5.0 {17.5}	4.1 {14.4}	3.3 {11.5}	2.6 {9.0}	1.96 {6.9}
	0.02	6.3 {22}	5.7 {20.2}	4.7 {16.5}	3.8 {13.3}	2.9 {10.4}	2.2 {7.9}
	0.04	8.8 {31}	8.0 {28}	6.6 {23}	5.2 {18.4}	4.1 {14.3}	3.0 {10.7}
JEV-3212EX	0.01	6.57 {23.1}	6.10 {21.5}	5.16 {18.2}	4.22 {14.9}	3.28 {11.6}	2.35 {8.3}
	0.015	8.3 {29.1}	7.53 {26.5}	6.18 {21.7}	4.96 {17.5}	3.89 {13.7}	2.97 {10.4}
	0.02	9.5 {33.5}	8.7 {30.5}	7.11 {25.0}	5.71 {20.1}	4.46 {15.7}	3.39 {11.9}
	0.04	13.4 {47.0}	12.2 {42.8}	9.9 {35.0}	7.93 {27.9}	6.15 {21.6}	4.59 {16.1}

Flow Rate

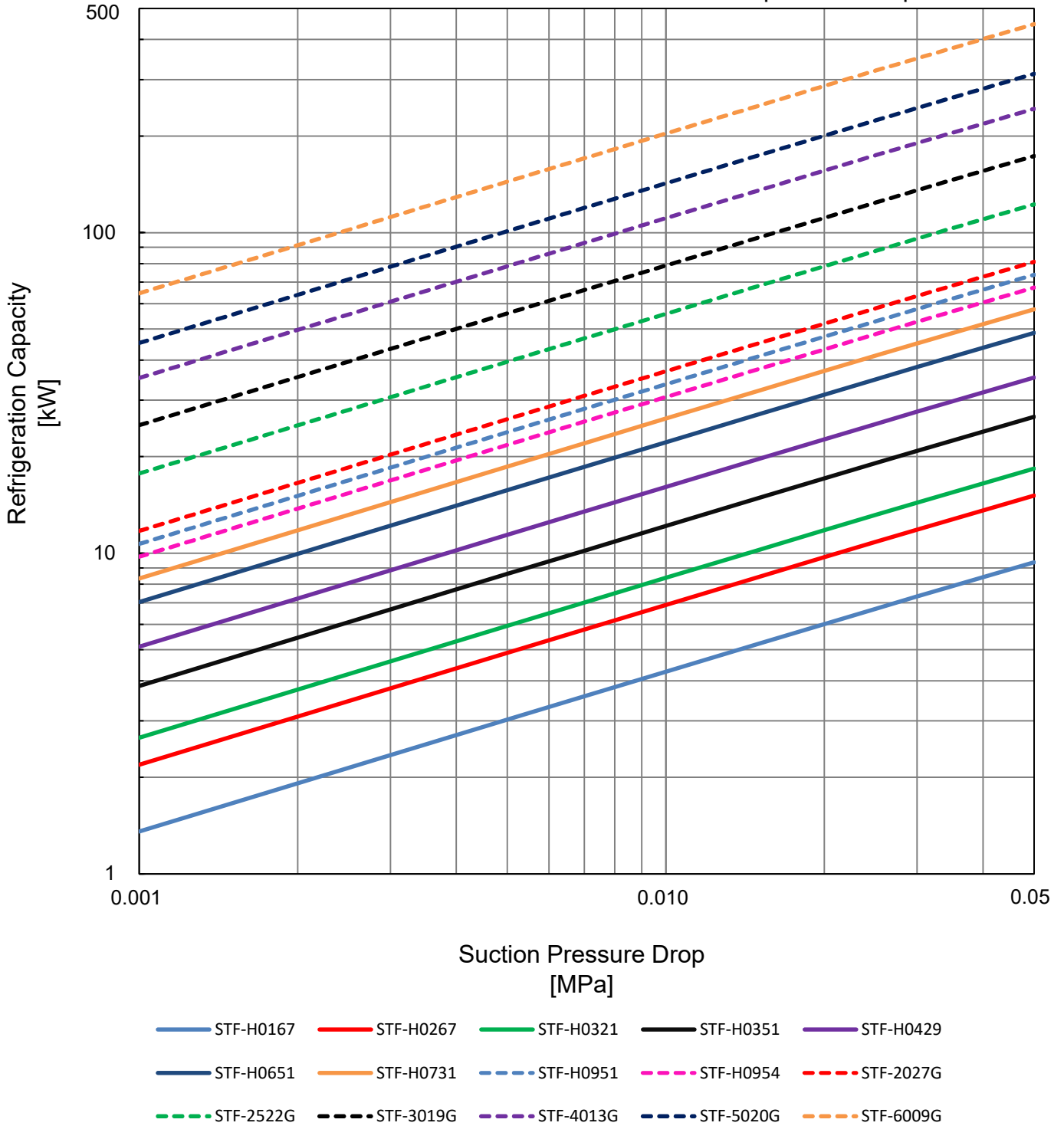
Hot Gas Defrost Line

CT. 38°C , hot Gas temperature at valve inlet 50°C

Catalog No.	Hot Gas Flow Rate (kg/h)							
	R134a				R404A			
	Pressure Drop (MPa)							
	0.05	0.10	0.15	0.30	0.05	0.10	0.15	0.30
JEV-1203EX	343	479	578	783	452	634	771	1065
JEV-2006EX	732	1022	1234	1670	964	1353	1645	2273
JEV-2510EX	1247	1740	2102	2844	1642	2304	2801	3870
JEV-3212EX	1888	2634	3182	4305	2485	3488	4240	5859

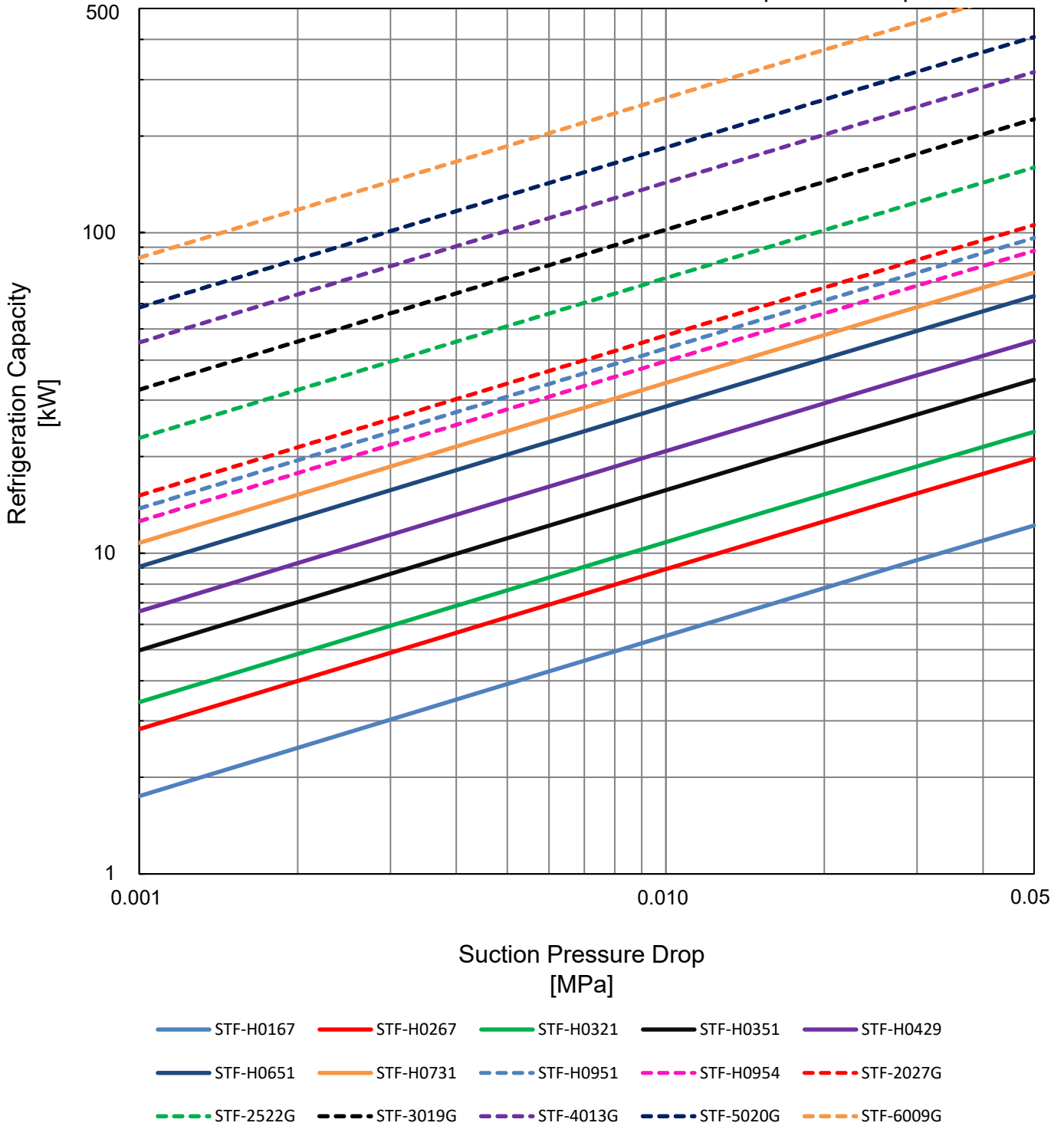
4-Way Reversing Valve Capacity Chart [R407C]

Condensing Temp. : 38 °C
 Evaporator Temp. : 5 °C
 Superheat Temp. : 5 K



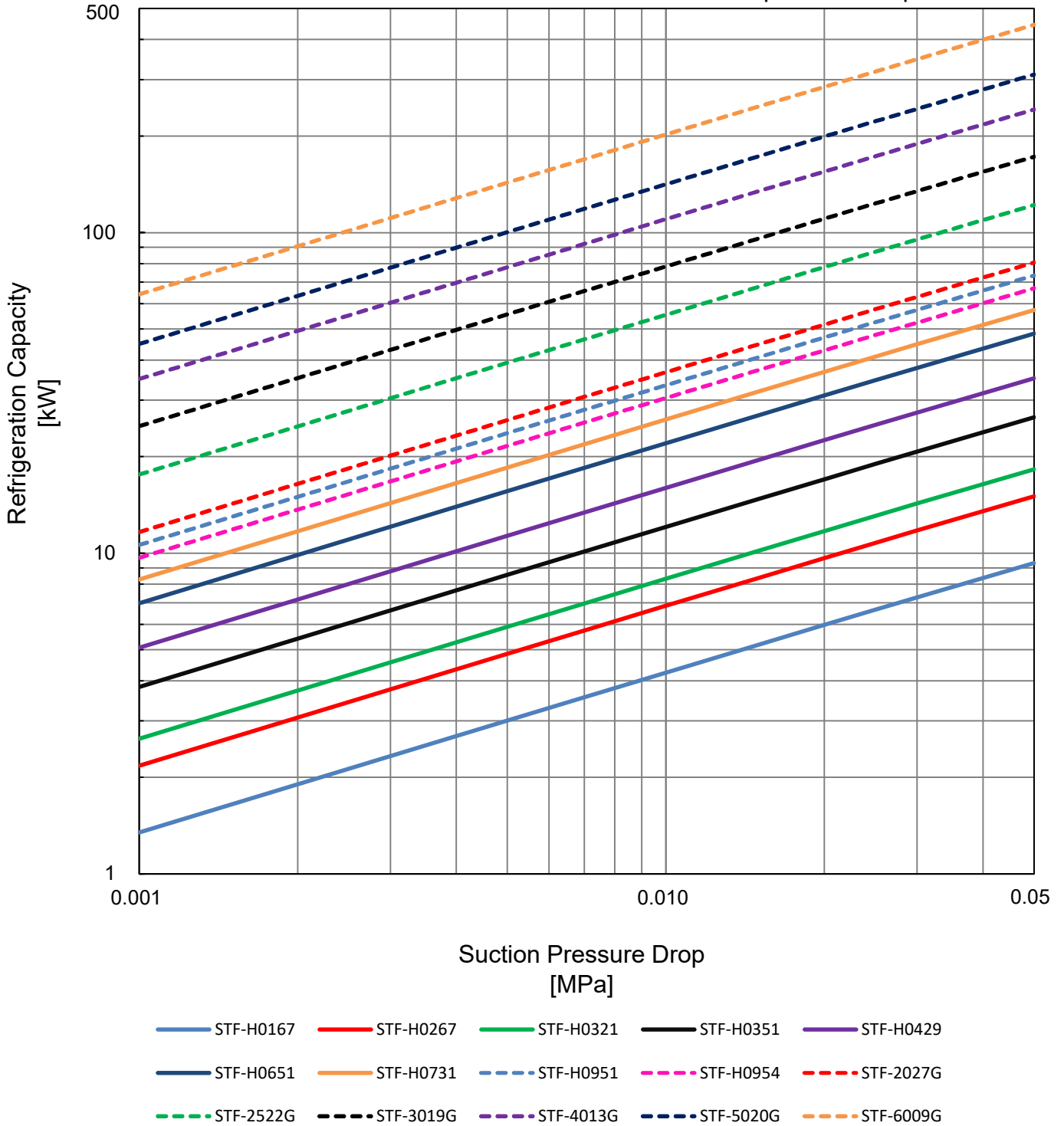
4-Way Reversing Valve Capacity Chart [R410A]

Condensing Temp. : 38 °C
 Evaporator Temp. : 5 °C
 Superheat Temp. : 5 K



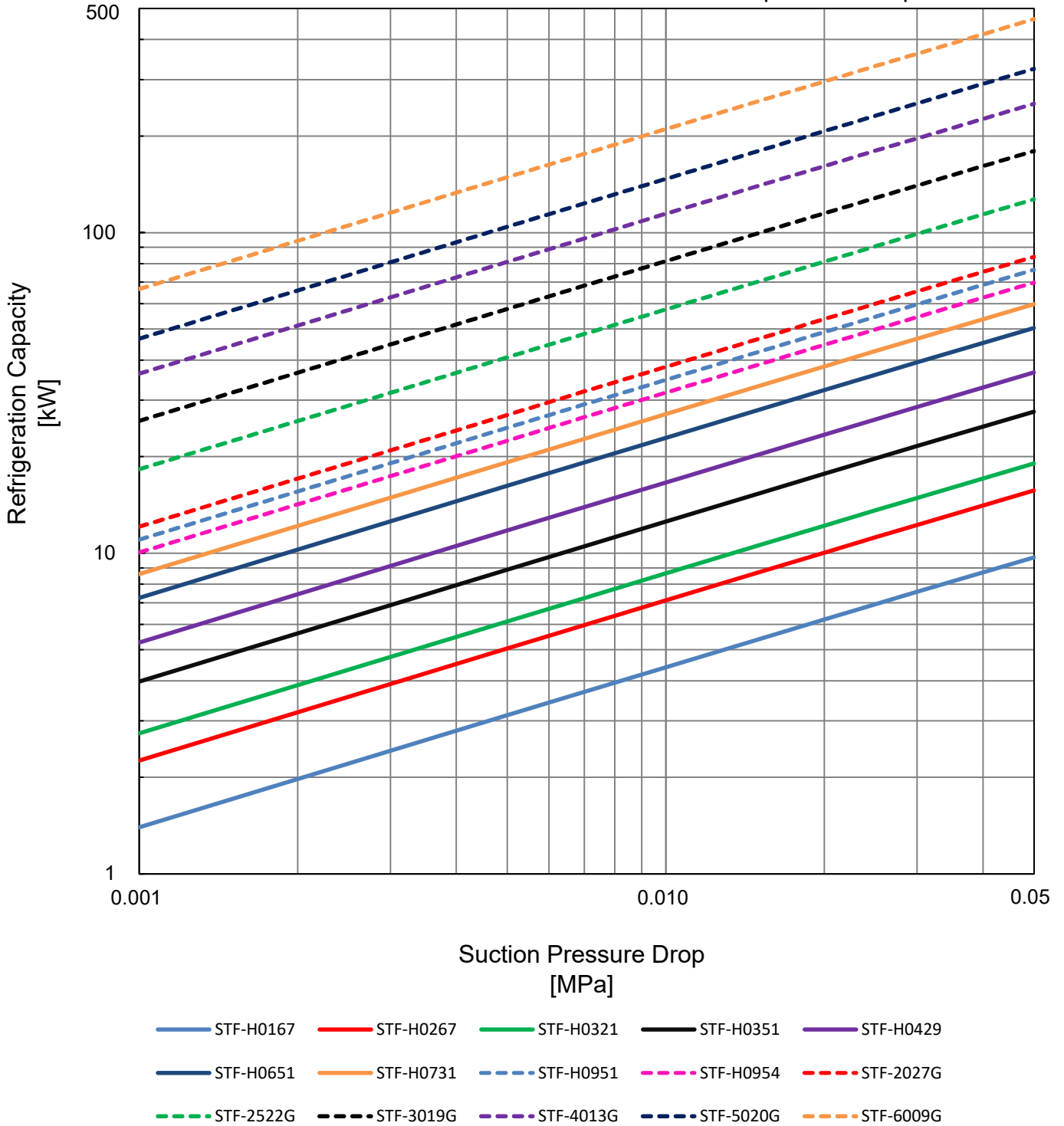
4-Way Reversing Valve Capacity Chart [R448A]

Condensing Temp. : 38 °C
 Evaporator Temp. : 5 °C
 Superheat Temp. : 5 K



4-Way Reversing Valve Capacity Chart [R449A]

Condensing Temp. : 38 °C
 Evaporator Temp. : 5 °C
 Superheat Temp. : 5 K



4-Way Reversing Valve Capacity Chart [R407H]

Condensing Temp. : 38 °C
 Evaporator Temp. : 5 °C
 Superheat Temp. : 5 K

