

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.

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	
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