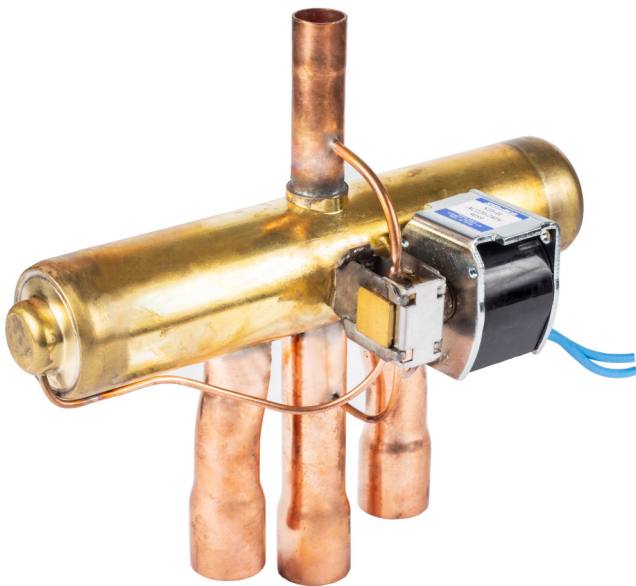


Data Sheet

4-Way Reversing valves Type **STF**



The 4-way valves are used in reversible applications such as heat pumps or reversible air conditioning units and chillers.

The 4-way valve allows an inversion of the refrigeration cycle, changing from cooling mode in summer to heating mode in winter.

Features

- Wide application range
 - complete capacity range
 - available for all common refrigerants including flammable refrigerants)
 - many different connection diameters and configurations
- High reliability
 - unique design
 - instantaneous changeover at minimum pressure differential
 - mechanism to prevent incomplete changeover
 - Minimized leakage
- CE approved
- UL approved

Application

The cycle inversion is initiated by a small solenoid pilot valve, which pilots the movement of a slider, which changes the direction of the refrigerant. The valve is connected to the discharge and suction pipes.

The pilot valve ensures a very reliable changeover from cooling to heating mode, the changeover happens instantaneously with a minimum pressure differential. The valve design also guarantees a minimum pressure drop and a very low risk of leakage.

Figure 1: HEATING CYCLE (Coil energized)

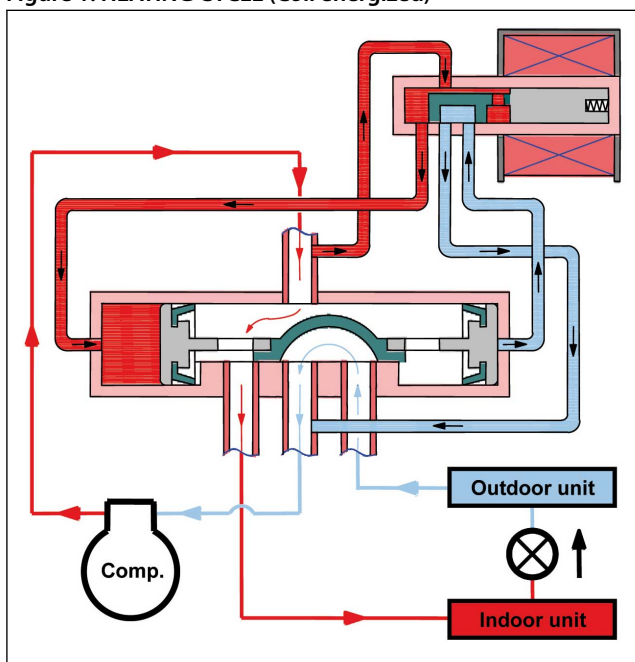
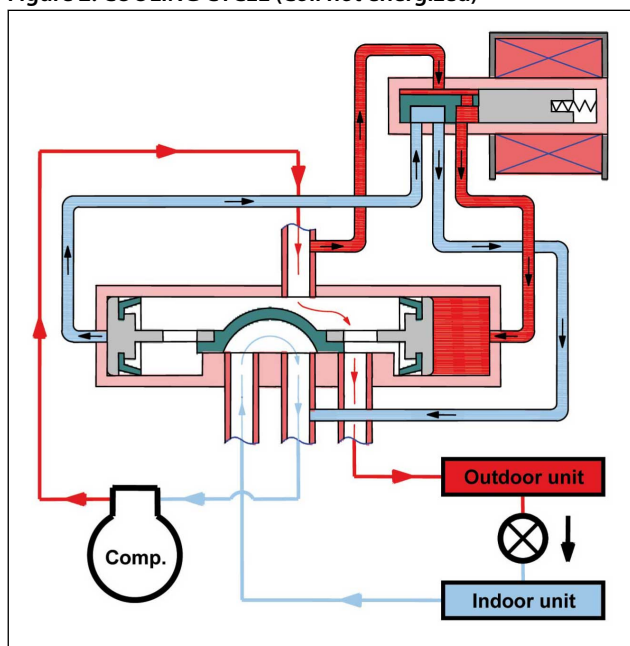


Figure 2: COOLING CYCLE (Coil not energized)



Product specification

Technical data

Table 1: Technical data

Parameter	STF-G, STF-H, STF-D
Compatibility refrigerants	R22, R134a, R404A, R407A, R407C, R410A, R448A, R449A, R452A, R452B, R454B, R454C, R513A, R290, R32, R1234ze, R1234yf (see safety note below)
Min. OPD	3 bar
Max. OPD	31 bar
Max. working pressure (PS/MWP)	45 bar Note! 49 bar for selected models. Please check ordering table for further information.
Refrigerant temperature range	–30 to 130 °C Note! 160 °C for selected models. Please check ordering table for further information.
Ambient temperature	–30 to 55 °C

NOTE:

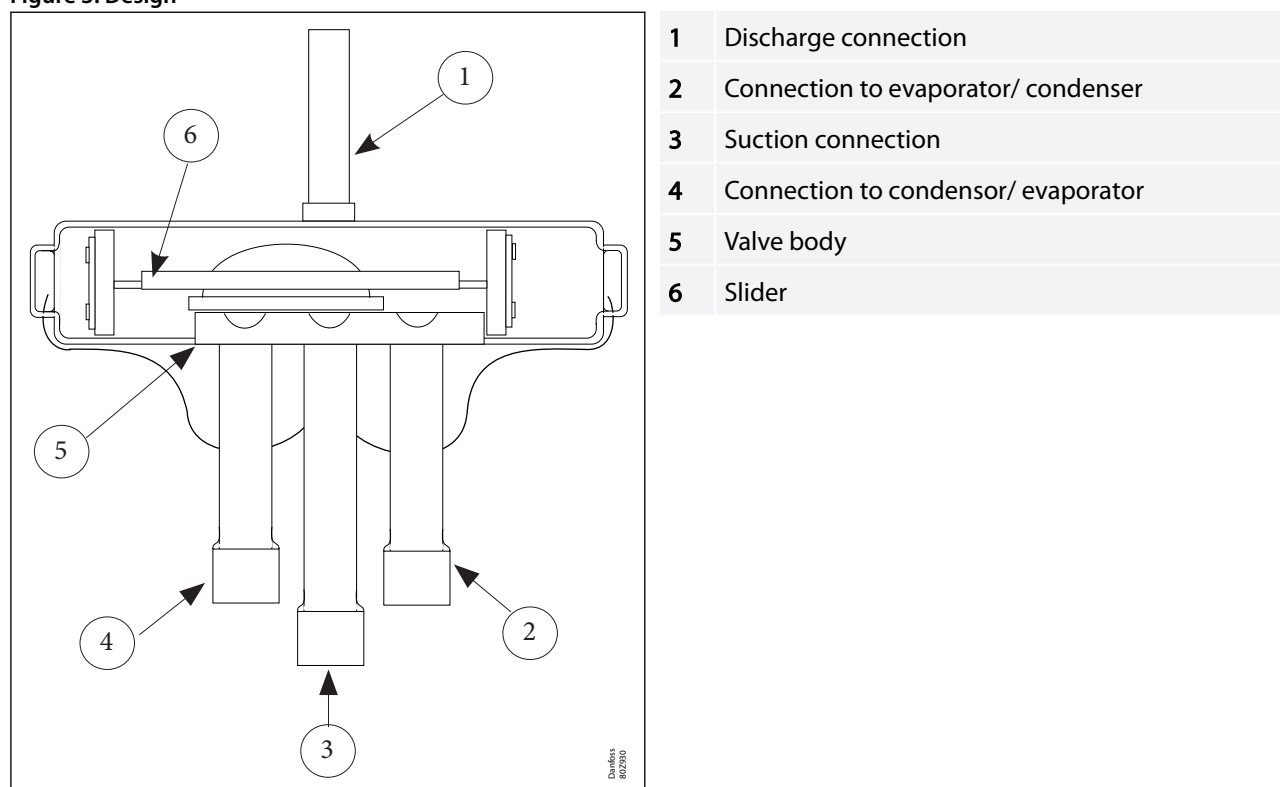
Special safety note for flammable refrigerants!

For countries where safety standards are not an indispensable part of the safety system Danfoss recommends the installer gets a third party approval of any system containing flammable refrigerant.

Please refer to separate drawings of the STF and STF-H valves with special disclaimer regarding usage of flammable refrigerants. Please refer to separate document "Important Notice for usage of STF and STF-H valves with flammable refrigerants (No. S-FD001-3).

Design

Figure 3: Design



The valve is composed of three basic components:

- Pilot valve
- Main valve body, including valve slider
- Solenoid coil

4-Way Reversing valves, Type STF

The 4-way valve slider is shifted by changes in differential pressure in the valve which is actuated by the pilot solenoid valve. The valve slider is specially designed to prevent incomplete changeover and movement with minimum pressure differential.

Dimension

Refer to separate drawings of models. - Contact danfoss for further information.

Ordering

Table 2: Ordering

Model	Pack format	Danfoss code	Kv	Style	Dis-charge connection type	Connections ODF		Max. Media temperature [°C]	MWP [bar]	OPD		Approval
						Dis-charge	E/S/C			Max.	Min.	
			[m³/h]			[inch]	[inch]			[bar]	[bar]	
STF-H0167	45	061L1348	2.23	A	ODF	5/16	3/8	130	45.0	31	3.00	CE
STF-H0267	32	061L1349	3.6	A	ODF	3/8	1/2	130	45.0	31	3.00	CE
STF-H0321	32	061L1350	4.37	E	ODF	1/2	5/8	130	45.0	31	3.00	CE
STF-H0351	32	061L1351	6.34	B	ODF	1/2	5/8	130	45.0	31	3.00	CE
STF-H0429	24	061L1352	8.4	F	ODF	1/2	3/4	130	45.0	31	3.00	CE
STF-H0651	24	061L1353	11.57	B	ODF	1/2	3/4	130	45.0	31	3.00	CE
STF-H0731	6	061L1354	14.4	F	ODF	3/4	7/8	130	45.0	31	3.00	CE
STF-H0951	6	061L1355	17.57	B	ODF	3/4	7/8	160	49.0	31	3.00	CE
STF-H0954	6	061L1356	17.57	F	ODF	7/8	1 - 1/8	160	49.0	31	3.00	CE
STF-0140G	TBD	TBD	2.23	A	ODF	5/16	3/8	130	45.0	31	3.00	CE
STF-0267G	32	TBD	3.6	A	ODF	3/8	1/2	130	45.0	31	3.00	CE
STF-0269G	32	TBD	3.6	A	ODF	3/8	5/8	120	45.0	31	3.00	CE
STF-0321G	TBD	TBD	4.37	E	ODF	1/2	5/8	130	45.0	31	3.00	CE
STF-0325G	32	TBD	4.37	E	ODF	1/2	3/4	120	45.0	31	3.00	CE
STF-0429G	TBD	TBD	8.4	B	ODF	1/2	3/4	130	45.0	31	3.00	CE
STF-0728G3	6	061L1160	14.4	B	ODF	7/8	7/8	120	45.0	31	3.00	CE
STF-0731G	TBD	TBD	14.4	B	ODF	3/4	7/8	130	45.0	31	3.00	CE
STF-0745G3	6	061L1319	14.4	B	ODF	7/8	1 - 1/8	140	45.0	35	3.00	CE
STF-0746G	6	061L1382	14.4	B	ODF	3/4	1 - 1/8	130	42.0	31	3.00	CE
STF-1518G	1	061L1385	15.08	F	ODF	7/8	1 - 1/8	130	45.0	31	3.00	CE
STF-2028G	1	061L1357	19.28	F	ODF	1 - 1/8	1 - 3/8	160	49.0	31	3.00	CE
STF-2525G	1	061L1358	29.14	G	ODF	1 - 1/8	1 - 3/8	160	49.0	31	3.00	CE
STF-2526G	1	061L1344	29.14	G	ODF	1 - 1/8	1 - 5/8	160	49.0	31	3.00	CE
STF-3015G	1	061L1345	41.22	G	ODM	1 - 1/8	1 - 5/8	160	49.0	31	3.00	CE
STF-4017G	1	061L1359	57.85	G	ODM	1 - 5/8	1 - 5/8	160	49.0	31	3.00	CE
STF-5017G	1	061L1360	74.89	G	ODM	1 - 5/8	2 - 1/8	160	49.0	31	3.00	CE
STF-6009G	1	061L1361	106.27	G	ODM	1 - 5/8	2 - 5/8	160	49.0	31	3.00	CE
STF-01U19G	50 ⁽¹⁾	061L1383	2.23	A	ODF	5/16	3/8	120	41.5	31	3.00	UL/CE
STF-03U24G	TBD	TBD	4.37	E	ODF	1/2	5/8	120	45.0	31	3.00	UL/CE
STF-04U29G	TBD	TBD	8.4	B	ODF	1/2	3/4	130	47.0	31	3.00	UL
STF-04U56G	TBD	TBD	8.4	B	ODF	1/2	7/8	120	45.0	31	3.00	UL/CE
STF-07U32G	TBD	TBD	14.4	B	ODF	1/2	7/8	130	47.0	31	3.00	UL
STF-20U28G	TBD	TBD	19.28	F	ODF	1-1/8	1-3/8	130	47.0	31	3.00	UL
STF-25U25G	1	061L1365	29.14	G	ODF	1 - 1/8	1 - 3/8	160	49.0	31	3.00	UL/CE
STF-30U15G	1	061L1366	41.22	G	ODM	1 - 1/8	1 - 5/8	160	49.0	31	3.00	UL/CE
STF-40U16G	1	061L1367	57.85	G	ODM	1 - 5/8	1 - 5/8	160	49.0	31	3.00	UL/CE
STF-50U16G	1	061L1368	74.89	G	ODM	1 - 5/8	2 - 1/8	160	49.0	31	3.00	UL/CE
STF-60U9G	1	061L1369	106.27	G	ODM	1 - 5/8	2 - 5/8	160	49.0	31	3.00	UL/CE
STF-0239D	TBD	TBD	3.6	A	ODF	3/8	1/2	120	41.5	ON: 9.8 OFF: 22.6	2.45	CE
STF-0321D	32	TBD	4.37	E	ODF	1/2	5/8	120	41.5	ON: 9.8 OFF: 22.6	2.45	CE
STF-0458D	TBD	TBD	8.4	B	ODF	1/2	7/8	130	45.0	ON: 9.8 OFF: 22.6	3.43	CE
STF-0731D	6	061L1384	14.4	B	ODF	3/4	7/8	130	45.0	ON: 9.8 OFF: 22.6	3.43	CE
STF-1514D	TBD	TBD	15.08	F	ODF	1 - 1/8	1 - 3/8	120	45.0	ON: 9.8 OFF: 22.6	3.00	CE

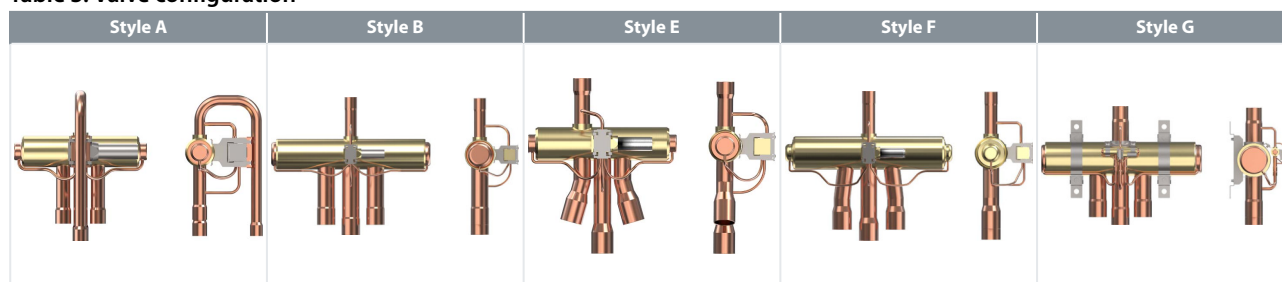
⁽¹⁾ For non-European countries

NOTE:

*TBD Danfoss code can be created by customer request.

4-Way Reversing valves, Type STF

Table 3: Valve configuration



Coils for STF-G, STF-H, STF-D valves

Table 4: Coil for STF-G valves

Model	Ambient temperature	Supply voltage	Voltage variation	Frequency	Power consumption	Cable length	Code no.	Packing	Approval
	[°C]	[V]		[Hz]	[W]	[mm]			
STF-01AB500A1	-20T55	24 AC	-15%, +10%	50 / 60	6 / 5	600	061L7000	I-pack 10 pcs	CE
STF-01AB500A1	-20T55	24 AC	-15%, +10%	50 / 60	6 / 5	600	061L7090	I-pack 100 pcs	CE
STF-01AB503B1	-20T55	24 AC	-15%, +10%	50 / 60	6 / 5	1200	061L7068	I-pack 100 pcs	CE
STF-01AD503B1	-30T55	110 AC	-15%, +10%	50 / 60	6 / 5	700	061L7002	I-pack 10 pcs	CE
STF-01AE503B1	-20T55	115 AC	-15%, +10%	50 / 60	6 / 5	1000	061L7003	I-pack 100 pcs	CE
STF-01AJ124B1	-20T55	220-240 AC	-15%, +10%	50	7	FASTON TAB	061L2122	I-pack 140 pcs	CE
STF-01AJ504F1	-20T65	208-240 AC	-15%, +10%	50	6	1200	061L7007	M-pack 48 pcs	CE
STF-01AJ504F1	-20T65	208-240 AC	-15%, +10%	50	6	1200	061L7100	I-pack 10 pcs	CE
STF-01AJ504F1	-20T65	208-240 AC	-15%, +10%	50	6	1200	061L7101	I-pack 100 pcs	CE
STF-01AJ586A1	-20T55	208-240 AC	-15%, +10%	50	6	2600	061L7010	I-pack 60 pcs	CE
STF-01AJ506B1	-20T65	220-240 AC	-15%, +10%	50 / 60	6 / 5	600	061L7008	I-pack 10 pcs	CE
STF-01AJ512E1	-20T55	220-240 AC	-15%, +10%	50	6	2000	061L7102	I-pack 10 pcs	CE
STF-01AJ512E1	-20T55	220-240 AC	-15%, +10%	50	6	2000	061L7009	I-pack 60 pcs	CE
STF-01AJ2734A1	-30T55	220-240 AC	-15%, +10%	50	6	5000	061L7070	I-pack 20 pcs	CE
STF-01AZ2781A1	-20T50	110 DC	-10%, +10%	-	12	1500	061L2149	I-pack 40 pcs	CE
STF-01AB060UA1	-20T55	24 AC	-15%, +10%(50Hz) -10%, +10%(60Hz)	50 / 60	6 / 5	FASTON TAB	061L2200	I-pack 140 pcs	UL
STF-01AB506UB1	-20T55	24 AC	-15%, +10%(50Hz) -10%, +10%(60Hz)	50 / 60	6 / 5	600	TBD	TBD	UL
STF-01AD516UA1	-20T55	110 AC	-15%, +10%(50Hz) -10%, +10%(60Hz)	50 / 60	6 / 5	700	061L2218	I-pack 100 pcs	UL
STF-01AE505UB1	-20T55	115-120 AC	-15%, +10%(50Hz) -10%, +10%(60Hz)	50 / 60	6 / 5	1000	TBD	TBD	UL
STF-01AJ542UB1	-20T55	220-240 AC	-15%, +10%(50Hz) -10%, +10%(60Hz)	50 / 60	6 / 5	1000	061L2150	I-pack 150 pcs ⁽¹⁾	UL
STF-01AJ542UB1	-20T55	220-240 AC	-15%, +10%(50Hz) -10%, +10%(60Hz)	50/60	6 / 5	1000	061L2114	I-pack 100 pcs ⁽²⁾	UL

⁽¹⁾ For non-European countries

⁽²⁾ For European countries

Table 5: Coil for STF-H valves

Model	Tambient	Supply voltage	Voltage variation	Frequency	Power consumption	Cable length	Code no.	Packing	Approval
	[°C]	[V]		[Hz]	[W]	[mm]			
STF-H01AB2403A1	-20T55	24 AC	-15%, +10%(50Hz) -10%, +10%(60Hz)	50 / 60	5 / 4	1200	061L7013	I-pack 100 pcs	CE
STF-H01AJ1709A1	-20T50	220-240 AC	-10%, +10%	50 / 60	6 / 5	600	061L7014	I-pack 100 pcs	CE
STF-H01AJ1736D1	-20T65	220-240 AC	-10%, +10%	50	6	1000	061L7015	I-pack 100 pcs	CE
STF-H01AJ1738A1	-20T55	220-240 AC	-15%, +10%(50Hz) -10%, +10%(60Hz)	50 / 60	6 / 5	2000	061L7016	I-pack 60 pcs	CE
STF-H01AJ2604A1	-20T65	220-240 AC	-10%, +10%	50 / 60	6 / 5	3000	061L7074	I-pack 40 pcs	CE

4-Way Reversing valves, Type STF

Table 6: Coil for STF-D valves

Model	Tambient	Supply voltage	Voltage variation	Frequency	Power consumption	Cable length	Code no.	Packing	Approval
	[°C]	[V]		[Hz]	[W]	[mm]			
STF-01AZ2111B1	-20T45	24 DC	-10%, +10%	-	9	200	061L7085	I-pack 100 pcs	CE

NOTE:

- Coil for STF-G type can only work with STF-G valve
- Coil for STF-H type can only work with STF-H valve
- Coil for STF-D type can only work with STF-D valve

NOTE:

Refer to drawings of specific models for detailed technical specifications and dimensions. Contact Danfoss for more information.

Nominal operating conditions

Nominal operating conditions	Condition 1	Condition 2
Condensing Temperature	38°C	54,4°C
Evaporating Temperature	5°C	7,2°C
Superheat	5K	5K
Subcooling	0K	5K

Valve Size	Nominal Cooling Capacity (condition 1)											
	R134a		R404A		R407C		R410A		R32		R290	
	ΔP:	ΔP:	ΔP:	ΔP:	ΔP:	ΔP:	ΔP:	ΔP:	ΔP:	ΔP:	ΔP:	ΔP:
	0,1 bar	0,2 bar	0,1 bar	0,2 bar	0,1 bar	0,2 bar	0,1 bar	0,2 bar	0,1 bar	0,2 bar	0,1 bar	0,2 bar
	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]
STF-H01	3,54	4,97	3,70	5,22	4,27	6,01	5,52	7,79	6,94	9,78	5,54	7,80
STF-H02	5,72	8,03	5,98	8,43	6,90	9,71	8,92	12,58	11,20	15,80	8,95	12,60
STF-H03	6,95	9,75	7,26	10,23	8,38	11,79	10,83	15,27	13,60	19,19	10,87	15,31
STF-H035	10,08	14,15	10,54	14,85	12,16	17,11	15,71	22,16	19,74	27,84	15,78	22,21
STF-H04	13,35	18,74	13,96	19,67	16,10	22,66	20,81	29,35	26,14	36,87	20,89	29,41
STF-H06	18,39	25,81	19,22	27,09	22,17	31,21	28,66	40,43	36,01	50,79	28,78	40,51
STF-H07	22,88	32,12	23,92	33,71	27,60	38,84	35,67	50,31	44,81	63,21	35,81	50,42
STF-H09	27,92	39,19	29,19	41,14	33,67	47,40	43,52	61,39	54,68	77,13	43,70	61,52
STF-01	3,54	4,97	3,70	5,22	4,27	6,01	5,52	7,79	6,94	9,78	5,54	7,80
STF-02	5,72	8,03	5,98	8,43	6,90	9,71	8,92	12,58	11,20	15,80	8,95	12,60
STF-03	6,95	9,75	7,26	10,23	8,38	11,79	10,83	15,27	13,60	19,19	10,87	15,31
STF-04	13,35	18,74	13,96	19,67	16,10	22,66	20,81	29,35	26,14	36,87	20,89	29,41
STF-07	22,88	32,12	23,92	33,71	27,60	38,84	35,67	50,31	44,81	63,21	35,81	50,42
STF-15	23,97	33,65	25,06	35,32	28,91	40,69	37,37	52,70	46,95	66,22	37,52	52,82
STF-20	30,64	43,02	32,04	45,15	36,96	52,02	47,77	67,38	60,02	84,65	47,97	67,52
STF-25	46,30	65,00	48,42	68,23	55,85	78,61	72,19	101,81	90,69	127,92	72,48	102,03
STF-30	65,51	91,96	68,50	96,52	79,01	111,22	102,12	144,03	128,31	180,97	102,54	144,35
STF-40	91,93	129,05	96,12	135,45	110,87	156,07	143,31	202,13	180,06	253,96	143,90	202,57
STF-50	118,21	165,95	123,61	174,18	142,58	200,70	184,29	259,92	231,54	326,58	185,04	260,49
STF-60	168,87	237,08	176,58	248,83	203,68	286,71	263,27	371,32	330,77	466,54	264,34	374,34

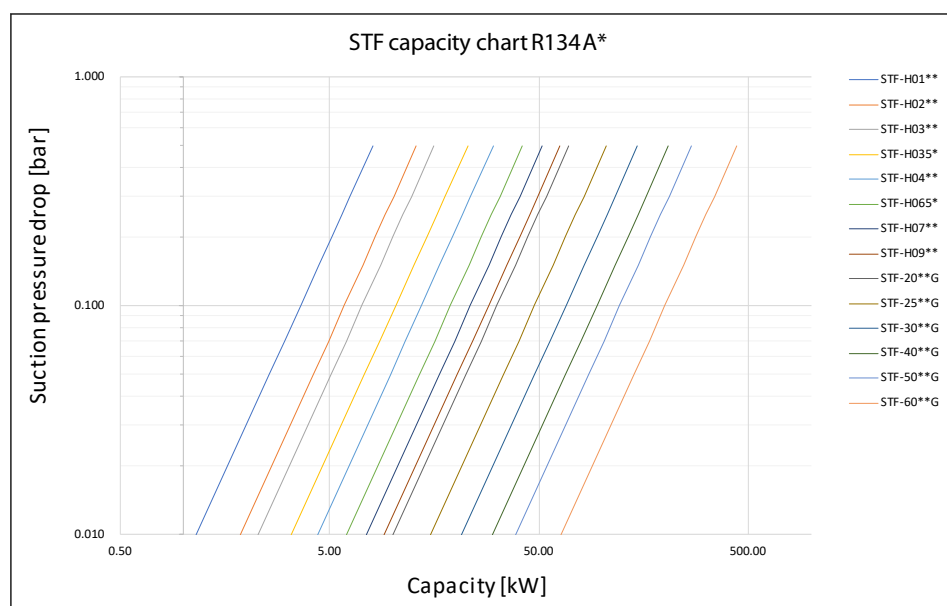
Valve Size	Nominal Cooling Capacity (condition 2)											
	R134a		R404A		R407C		R410A		R32		R290	
	ΔP:	ΔP:	ΔP:	ΔP:	ΔP:	ΔP:	ΔP:	ΔP:	ΔP:	ΔP:	ΔP:	ΔP:
	0,1 bar	0,2 bar	0,1 bar	0,2 bar	0,1 bar	0,2 bar	0,1 bar	0,2 bar	0,1 bar	0,2 bar	0,1 bar	0,2 bar
	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]
STF-H01	3,07	4,31	2,89	4,08	3,65	5,14	4,78	6,75	6,12	8,64	4,83	6,81
STF-H02	4,96	6,97	4,67	6,59	5,89	8,30	7,73	10,90	9,89	13,95	7,81	11,00
STF-H03	6,02	8,46	5,68	8,00	7,16	10,08	9,38	13,24	12,01	16,94	9,48	13,35
STF-H035	8,74	12,28	8,24	11,61	10,38	14,62	13,62	19,21	17,42	24,58	13,76	19,37
STF-H04	11,58	16,26	10,91	15,37	13,75	19,37	18,03	25,43	23,07	32,55	18,22	25,66
STF-H06	15,95	22,40	15,03	21,18	18,95	26,68	24,84	35,04	31,79	44,84	25,10	35,35

4-Way Reversing valves, Type STF

Valve Size	Nominal Cooling Capacity (condition 2)											
	R134a		R404A		R407C		R410A		R32		R290	
	ΔP :	ΔP :	ΔP :	ΔP :	ΔP :	ΔP :	ΔP :	ΔP :	ΔP :	ΔP :	ΔP :	ΔP :
	0,1 bar	0,2 bar	0,1 bar	0,2 bar	0,1 bar	0,2 bar	0,1 bar	0,2 bar	0,1 bar	0,2 bar	0,1 bar	0,2 bar
	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]
STF-H07	19,84	27,87	18,70	26,36	23,58	33,20	30,91	43,60	39,56	55,80	31,24	43,99
STF-H09	24,21	34,01	22,82	32,16	28,77	40,51	37,72	53,21	48,27	68,09	38,12	53,67
STF-01	3,07	4,31	2,89	4,08	3,65	5,14	4,78	6,75	6,12	8,64	4,83	6,81
STF-02	4,96	6,97	4,67	6,59	5,89	8,30	7,73	10,90	9,89	13,95	7,81	11,00
STF-03	6,02	8,46	5,68	8,00	7,16	10,08	9,38	13,24	12,01	16,94	9,48	13,35
STF-04	11,58	16,26	10,91	15,37	13,75	19,37	18,03	25,43	23,07	32,55	18,22	25,66
STF-07	19,84	27,87	18,70	26,36	23,58	33,20	30,91	43,60	39,56	55,80	31,24	43,99
STF-15	20,79	29,20	19,59	27,61	24,70	34,78	32,38	45,68	41,44	58,46	32,72	46,08
STF-20	26,58	37,33	25,04	35,30	31,58	44,46	41,40	58,40	52,98	74,74	41,84	58,91
STF-25	40,16	56,41	37,85	53,34	47,71	67,19	62,56	88,24	80,06	112,94	63,22	89,02
STF-30	56,81	79,80	53,54	75,46	67,50	95,05	88,50	124,84	113,25	159,77	89,43	125,94
STF-40	79,73	111,99	75,13	105,90	94,73	133,39	124,19	175,19	158,93	224,21	125,51	176,73
STF-50	102,52	144,00	96,62	136,17	121,81	171,53	159,70	225,28	204,38	288,32	161,39	227,26
STF-60	146,46	205,72	138,02	194,54	174,02	245,04	228,14	321,83	291,97	411,88	230,56	324,66

Capacity charts

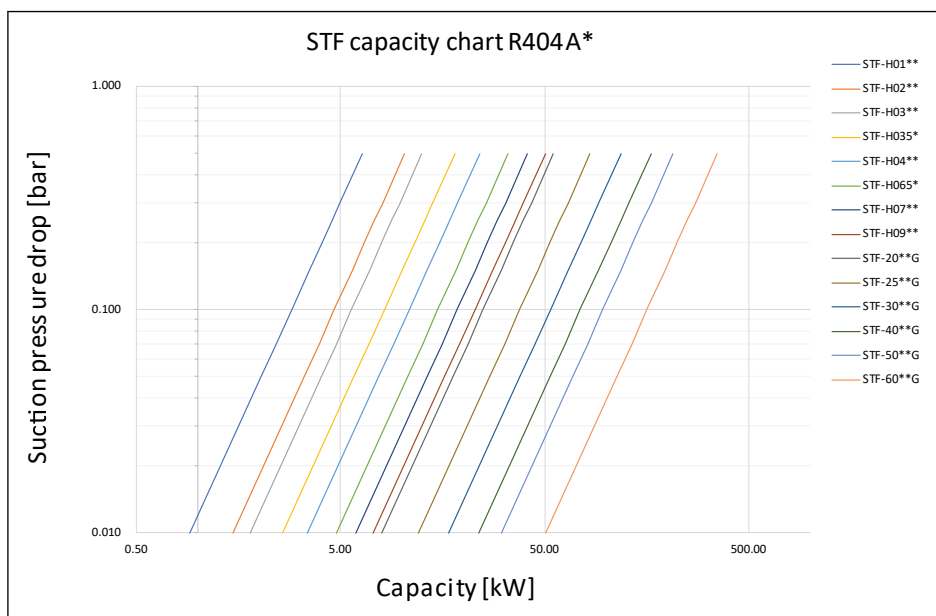
Figure 4: STF capacity chart R134A



* Capacity calculated for CT 54.4 °C, ET 7.2 °C, SH 5K

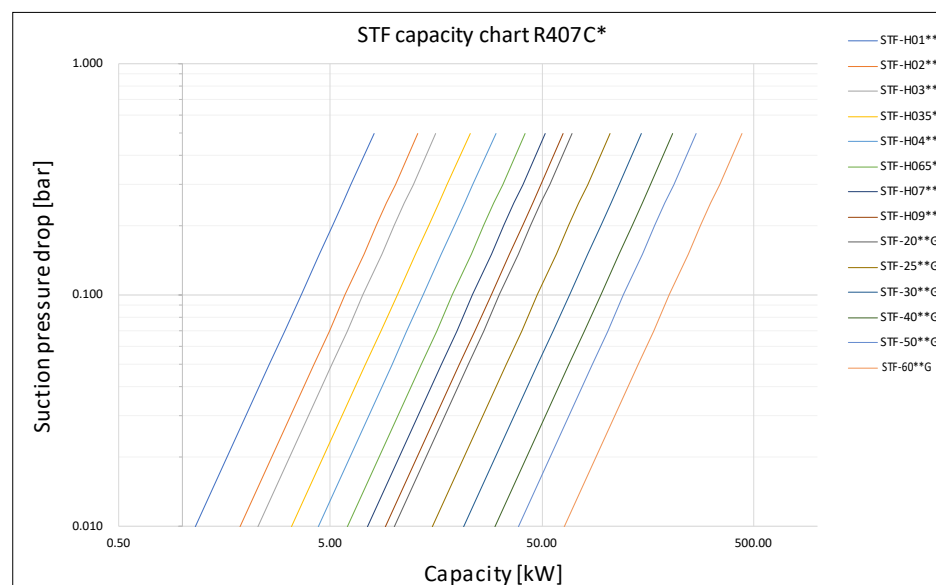
4-Way Reversing valves, Type STF

Figure 5: STF capacity chart R404A



* Capacity calculated for CT 54.4 °C, ET 7.2 °C, SH 5K

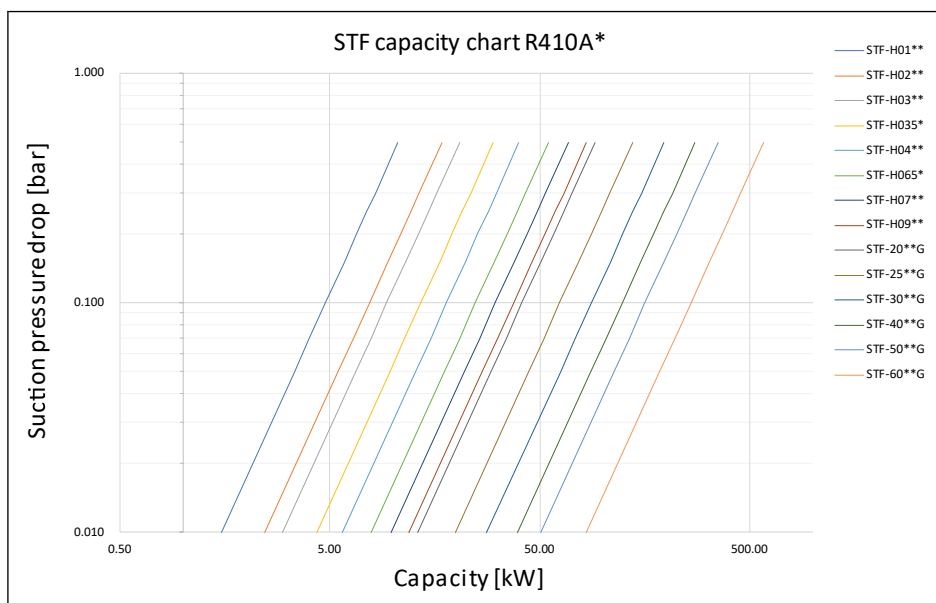
Figure 6: STF capacity chart R407C



* Capacity calculated for CT 54.4 °C, ET 7.2 °C, SH 5K

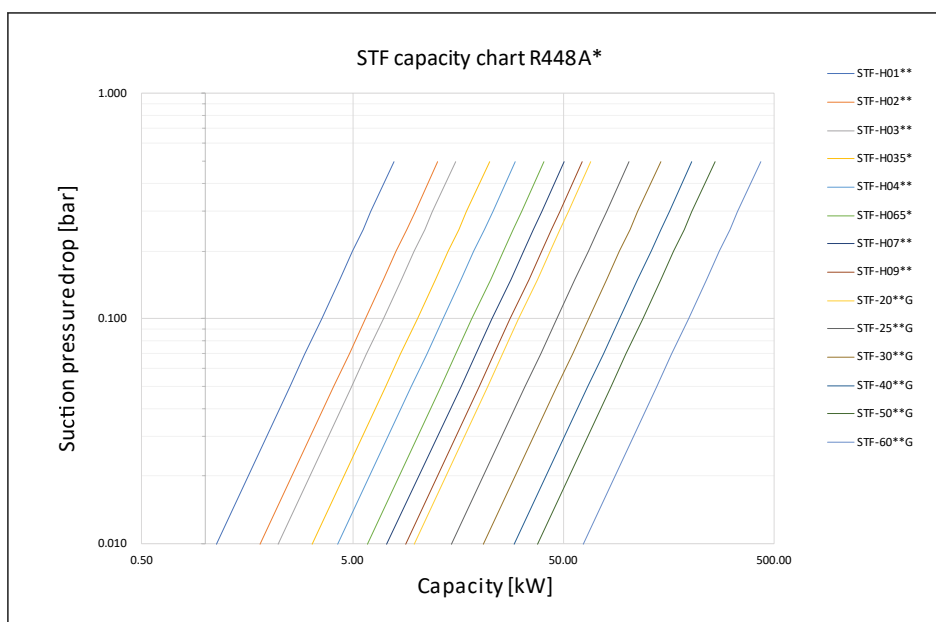
4-Way Reversing valves, Type STF

Figure 7: STF capacity chart R410A



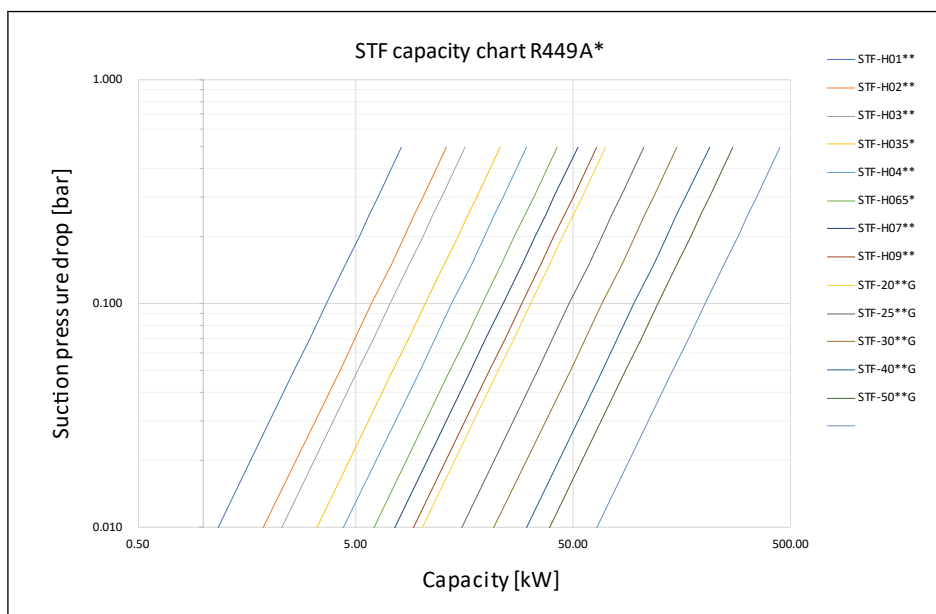
* Capacity calculated for CT 54.4 °C, ET 7.2 °C, SH 5K

Figure 8: STF capacity chart R448A



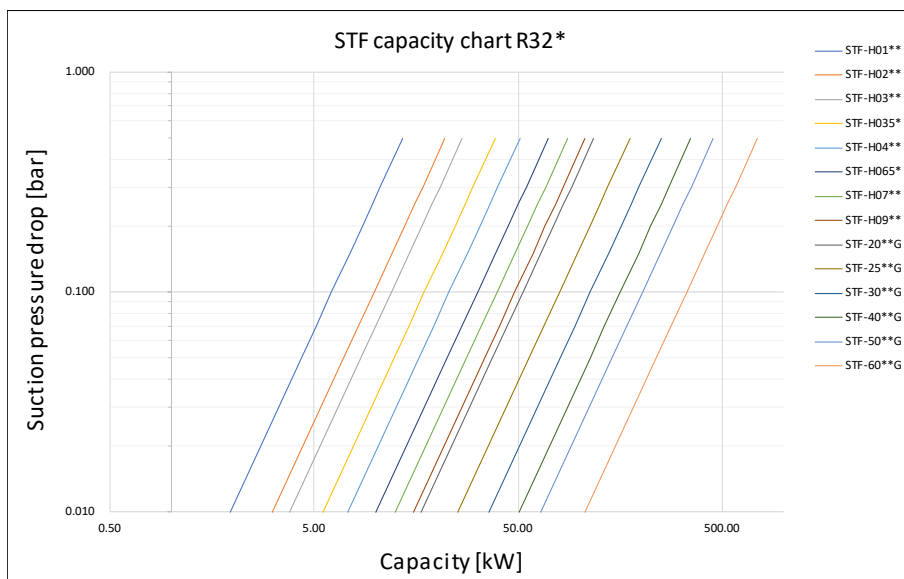
* Capacity calculated for CT 54.4 °C, ET 7.2 °C, SH 5K

Figure 9: STF capacity chart R449A



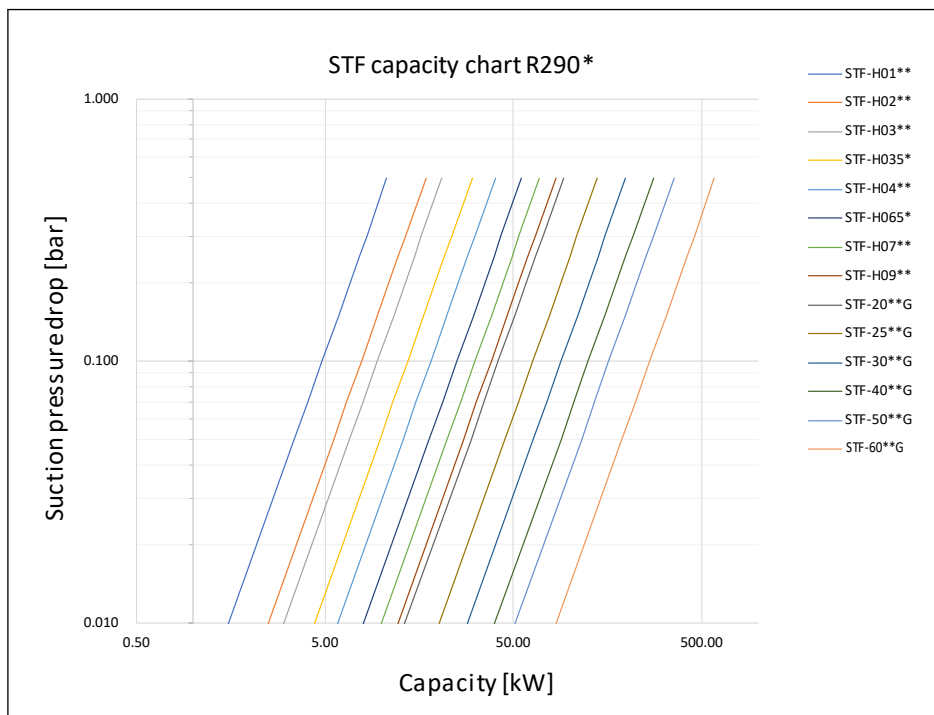
* Capacity calculated for CT 54.4 °C, ET 7.2 °C, SH 5K

Figure 10: STF capacity chart R32



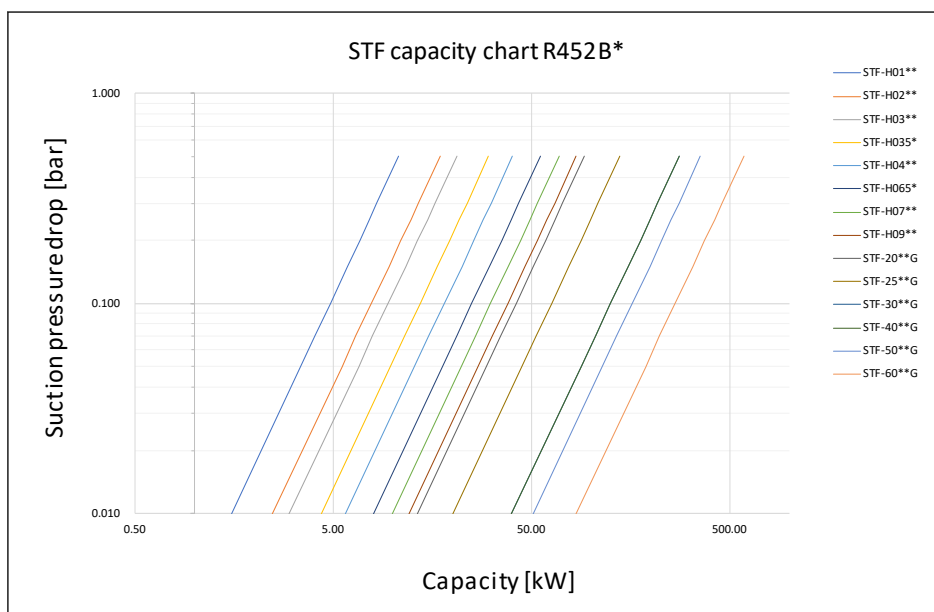
* Capacity calculated for CT 54.4 °C, ET 7.2 °C, SH 5K

Figure 11: STF capacity chart R290



* Capacity calculated for CT 54.4 °C, ET 7.2 °C, SH 5K

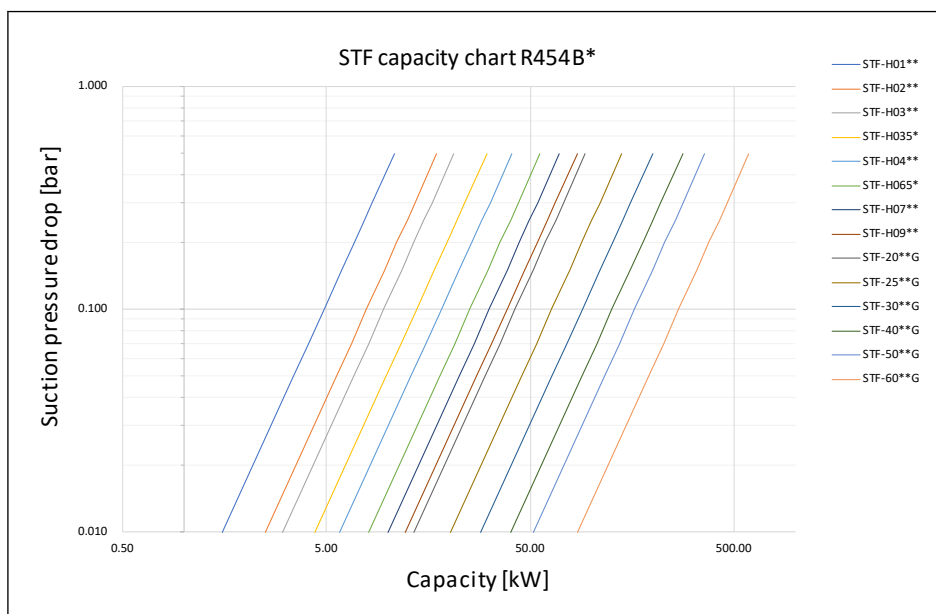
Figure 12: STF capacity chart R452B



* Capacity calculated for CT 54.4 °C, ET 7.2 °C, SH 5K

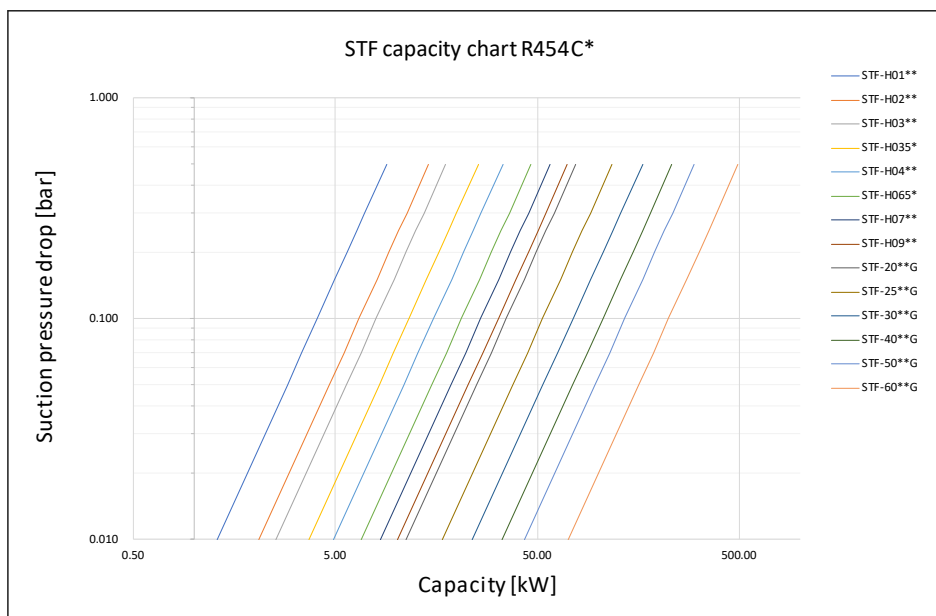
4-Way Reversing valves, Type STF

Figure 13: STF capacity chart R454B



* Capacity calculated for CT 54.4 °C, ET 7.2 °C, SH 5K

Figure 14: STF capacity chart R454C



* Capacity calculated for CT 54.4 °C, ET 7.2 °C, SH 5K

NOTE:

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