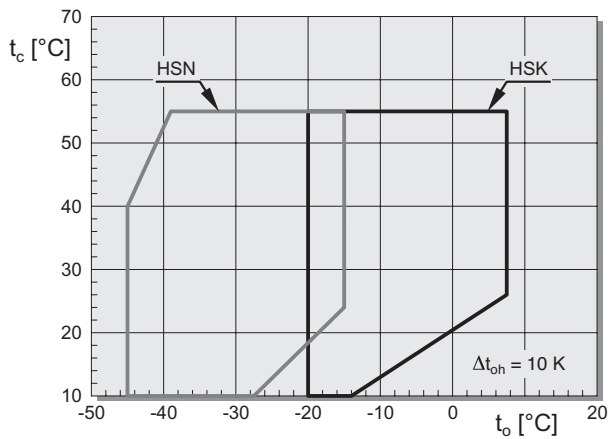


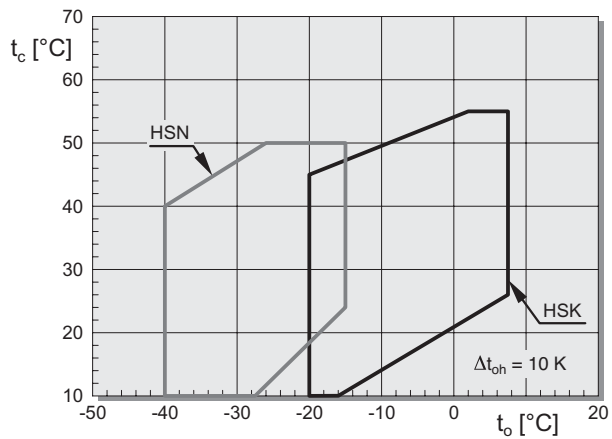
Application limits

HS.53 .. HS.85

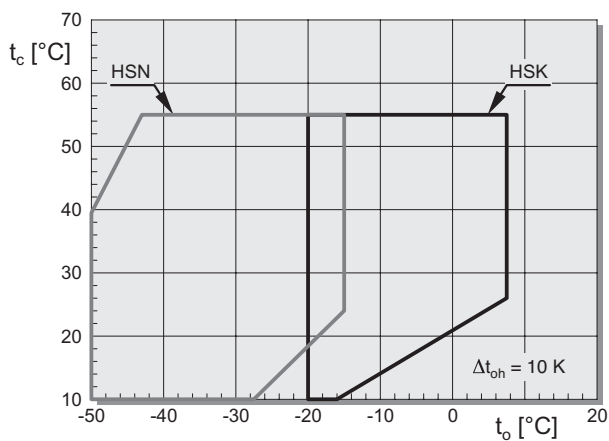
R448A ■ R449A ■ R407A ■ R407F CR100%



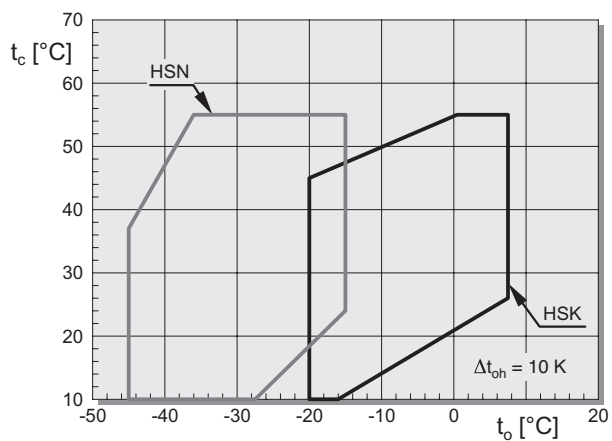
R448A ■ R449A ■ R407A ■ R407F CR75% ■ CR50%



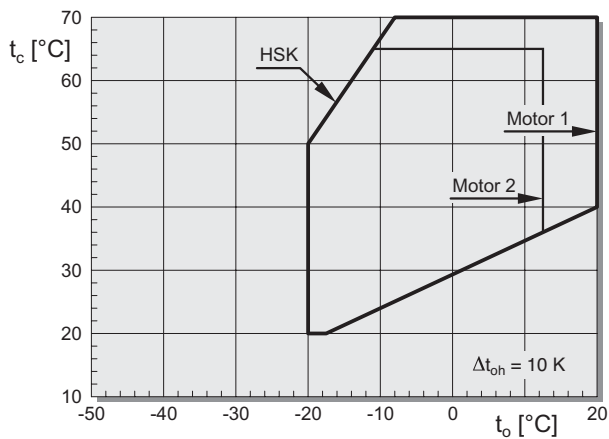
R404A ■ R507A CR100%



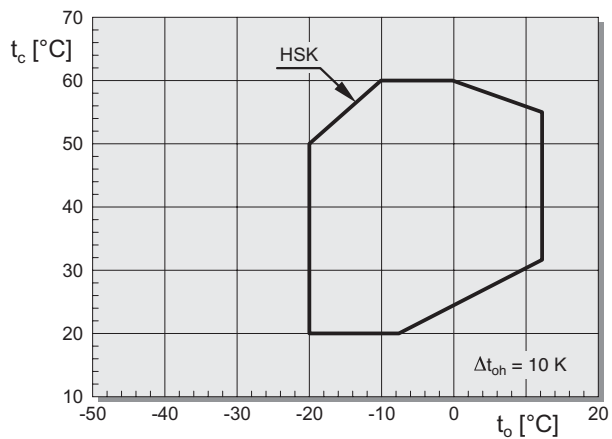
R404A ■ R507A CR75% ■ CR50%



R134a ■ R513A ■ R450A ■ R1234yf



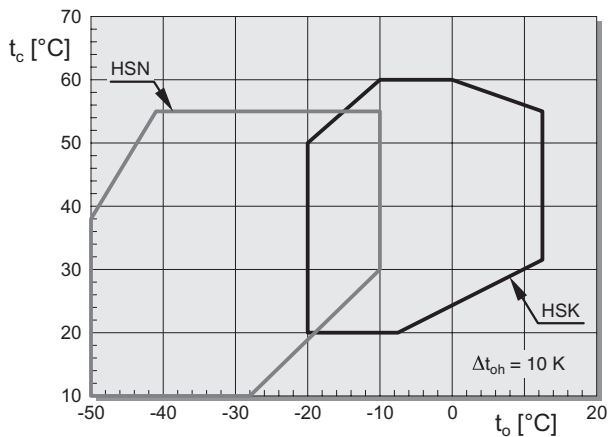
R407C



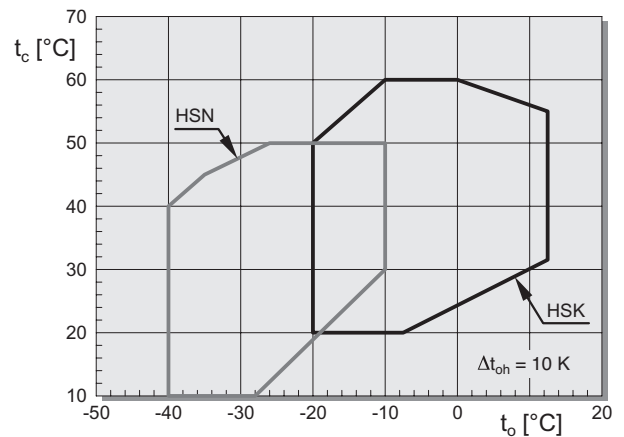
Application limits

HS.53 .. HS.85

R22 CR100%

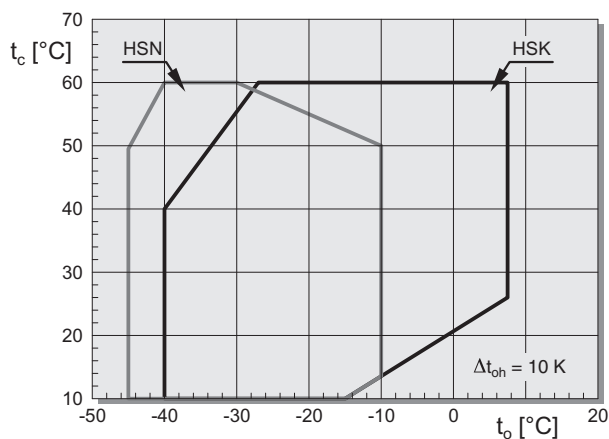


R22 CR75% ■ CR50%

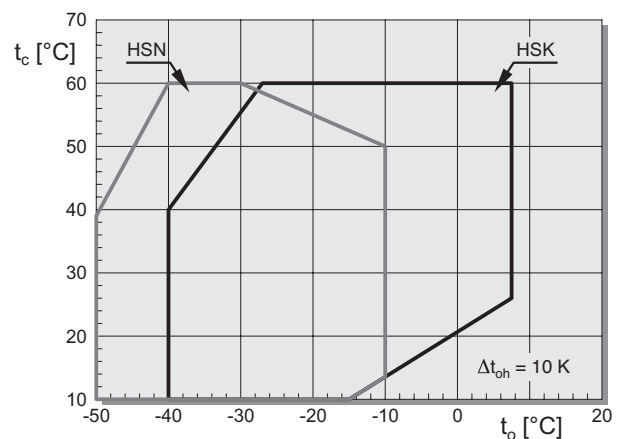


HS.95

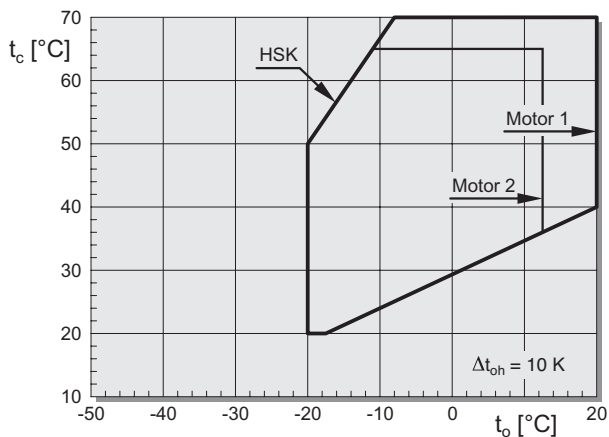
R448A ■ R449A ■ R407A ■ R407F



R404A ■ R507A



R134a ■ R513A ■ R450A ■ R1234yf



Legend

t_o Evaporation temperature (°C)
 t_c Condensing temperature (°C)
 Δt_{oh} Suction gas superheat (K)

Oil cooling

For ranges in which oil cooling becomes necessary see BITZER SOFTWARE. Here, the required oil cooler capacity can be determined.

Technical Data

Model	Motor version ①	Displacement 50/60 Hz ② m³/h	Cooling capacity Q _o			Capacity steps nominal ③ %	Weight ⑤ kg	Motor connection ⑥	Max. operating current ⑦ A	Max. power consumption ⑦ kW
			R134a t _o / t _c 5°C/50°C kW	R448A R449A t _o / t _c -10°C/45°C kW	R448A R449A t _o / t _c -35°C/40°C with ECO kW					
HSK5343-30	1	84/101	46.4	40.8	—	100/90/70	170	400V±10%Δ/Δ-3-50 Hz 460V ±10% 460V±10%Δ/Δ-3-60 Hz Part winding	52	33
HSN5343-20	1		—	—	21.7	100/90/55	166		48	29
HSK5353-35	1	100/121	56.7	49.3	—	100/85/60	178		58	37
HSN5353-25	1		—	—	25.6	100/80/50	169		52	33
HSK5363-40	1	118/142	67.2	58.7	—	100/80/55	183		66	42
HSN5363-30	1		—	—	29.9	100/75/45	174		58	37
HSK6451-40	2	140/168	81.1	—	—	100/85/60	234		65	35
HSK6451-50	1		81.1	71.5	—	100/75/50	238		79	50
HSN6451-40	1		—	—	36.0	100/75/50	234		65	42
HSK6461-40	2	165/198	96.8	—	—	100/80/55	238		65	42
HSK6461-60	1		96.8	86.0	—	100/80/55	246		98	65
HSN6461-50	1		—	—	42.2	100/75/45	238		79	52
HSK7451-50	2	192/232	117.3	—	—	100/75/45	297		79	51
HSK7451-70	1		117.3	104.0	—	100/80/65	305		124	75
HSN7451-60	1		—	—	50.6	100/80/65	297		98	65
HSK7461-60	2	220/266	134.9	—	—	100/70/40	310		98	56
HSK7461-80	1		134.9	119.2	—	100/75/60	314		144	85
HSN7461-70	1		—	—	58.3	100/75/60	310		124	75
HSK7471-70	2	250/302	146.6	—	—	100/60/40	326		124	85
HSK7471-90	1		146.6	130.5	—	100/60/40	336		162	92
HSN7471-75	1		—	—	62.5	100/75/55	326		144	85
HSK8551-80	2	315/380	179.6	—	—	100 ⇔ 50 or 100/75/50 ④	550		144	88
HSK8551-110	1		179.6	161.5	—		565		180	110
HSK8561-90	2	359/433	205	—	—		560		155	96
HSK8561-125	1		205	184.6	—		575		216	132
HSN8561-110	1		—	—	86.1		565		196	126
HSK8571-110	2	410/495	237	—	—		565		182	110
HSK8571-140	1		237	213	—		580		246	150
HSN8571-125	1		—	—	103.9		575		216	132
HSK8581-125	2	470/567	260	—	—		585		215	118
HSK8581-160	1		260	248	—		605		277	162
HSK8591-140	2	535/646	300	—	—	100 ⇔ 25	590		246	135
HSK8591-180	1		300	277	—		620		330	181
HSN8591-160	1		—	—	129.0		610		274	157
HSK9593-240	2	910/1090	520	—	—		1070	400V±10%	⑧	⑧
HSK9593-280	1		520	445	206		1100	Δ-3-50 Hz	⑧	⑧
HSK95103-280	2	1015/1220	590	—	—	100 ⇔ 25	1100	460V±10%	⑧	⑧
HSK95103-320	1		590	510	—		1120	Δ-3-60 Hz	664	421
HSN95103-280	1		—	—	236		1100	Y/Δ	⑧	⑧

① Motor 2: Compressor specially optimised for R134a for air conditioning and medium temperature application up to max. 65°C condensing temperature

② 50 Hz: at 2900 min⁻¹, 60 Hz at 3500 min⁻¹

③ Effective capacity steps depend on operating conditions.
K models -10/45°C (without ECO)
N models -35/40°C (without ECO)

④ 25%: integrated alternating current voltage or HSK with low pressure ratio

⑤ Weight according to standard delivery condition:
HS.53 to HS.74 with suction gas shut-off valve and discharge gas flange, HS.85 and HS.95 with suction gas and discharge gas flange, each with brazed bush. Additional weight of the optional shut-off valves:
Ø42 mm (1 5/8"): 3 kg Ø76 mm (3 1/8"): 10 kg
Ø54 mm (2 1/8"): 5 kg DN100: 20 kg
Ø64 mm (2 5/8"): 10 kg DN125: 50 kg

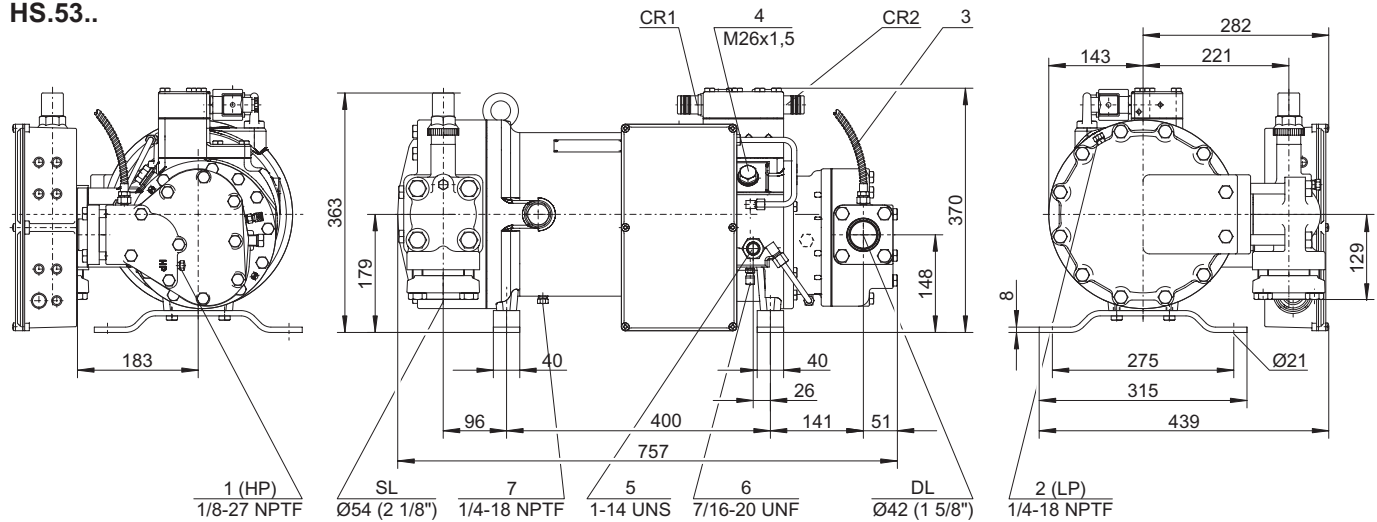
⑥ Other voltages and currents upon request.

⑦ Data valid for 50 Hz operation. For the selection of contactors, cables and fuses the max. operating current/max. power consumption must be considered.
Contactors: Operational category AC3

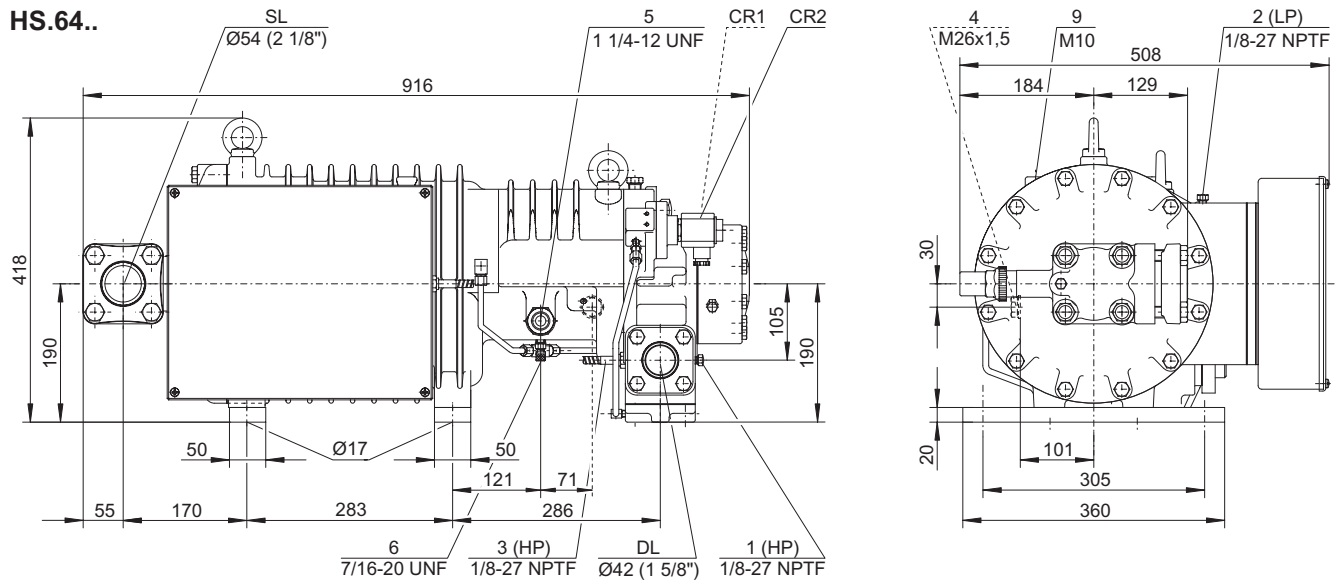
⑧ Data upon request

Dimensional drawings

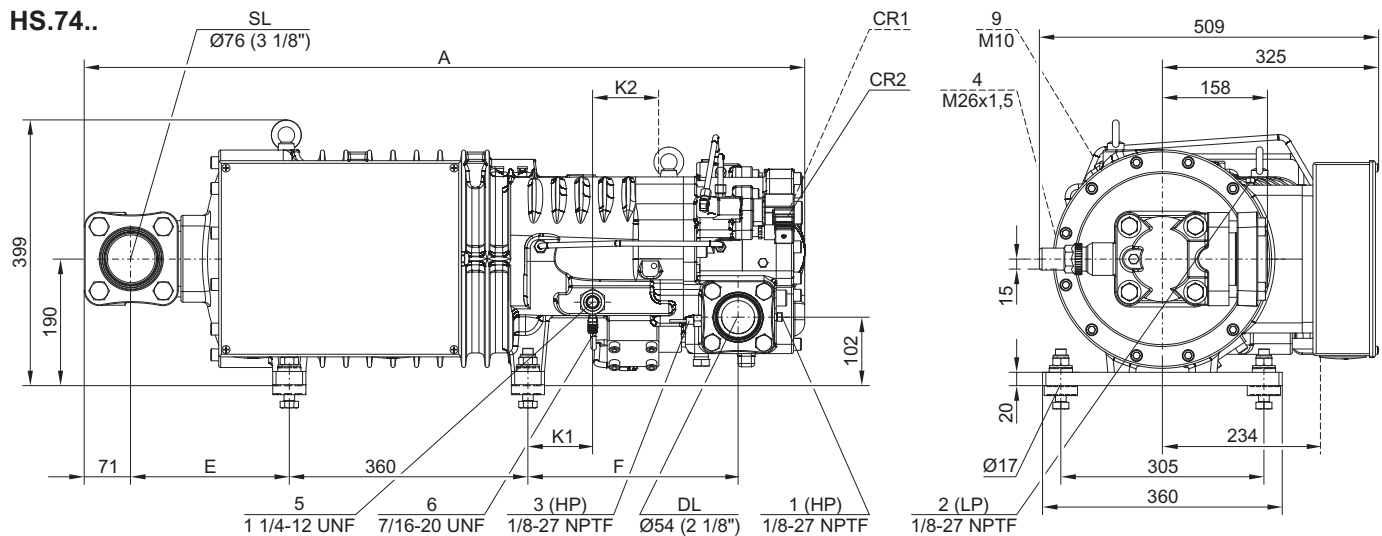
HS.53..



HS.64..



HS.74..



Model	A	E	F	K1	K2
HS.7451, HS.7461	1021	186	295	76	109
HSK7471-70, HSN7471-75	1034	186	318	98	97
HSK7471-90	1087	238	318	98	97