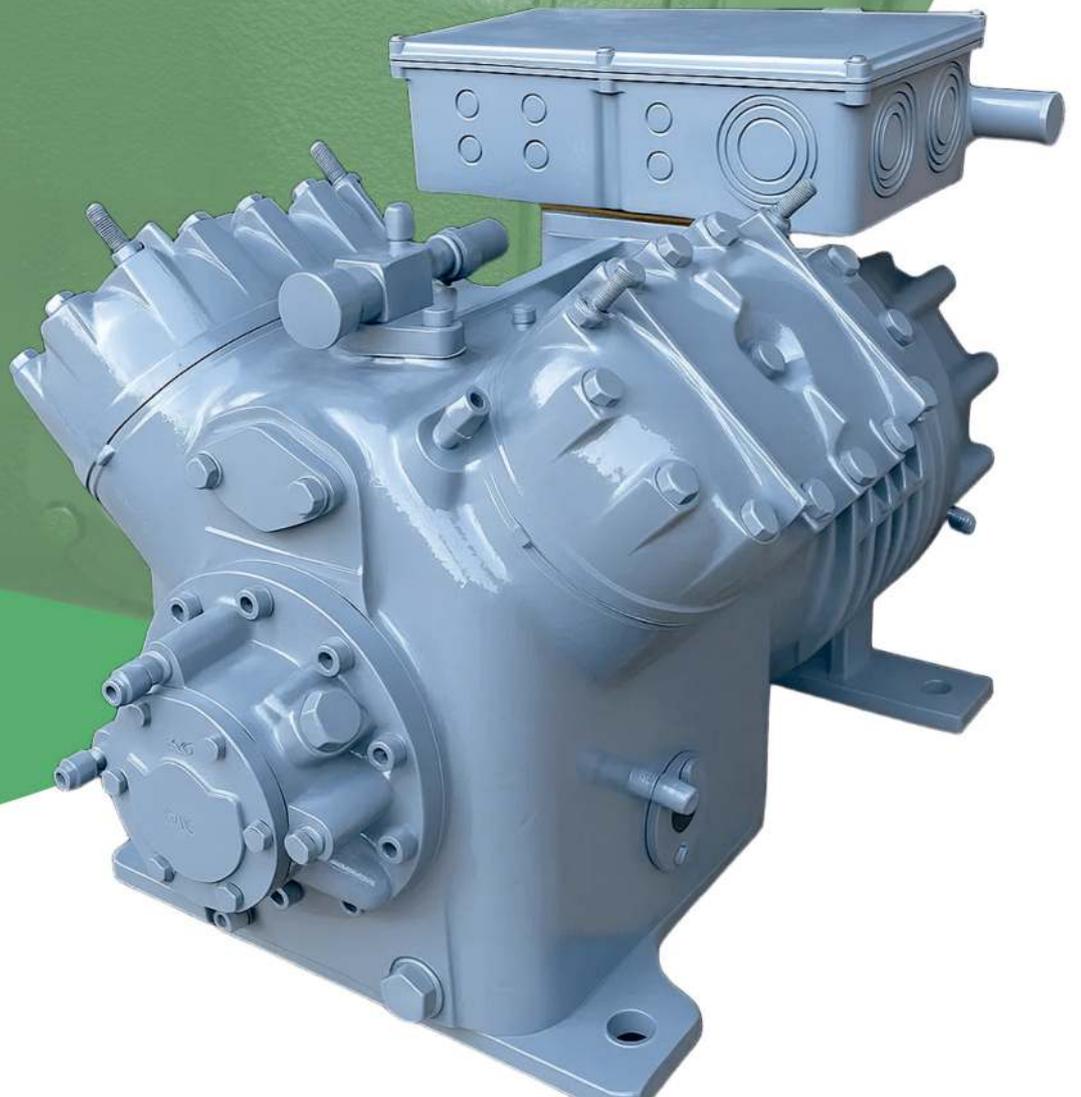
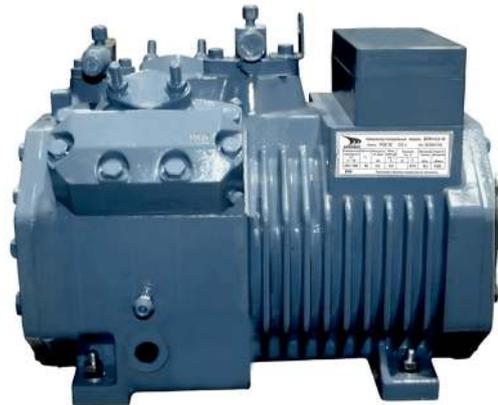


Compressor



BREIZER semi-hermetic piston compressors

BREIZER high-efficiency compressors meet the demanding requirements of modern refrigeration systems. Semi-hermetic piston compressors feature high cooling capacity with minimal energy consumption and are optimized for use with HCFC, HFC, HFO refrigerants, as well as new low GWP blended refrigerants. Its nominal power and displacement range from 3 to 50 HP and from 18 to 154 m³/h.

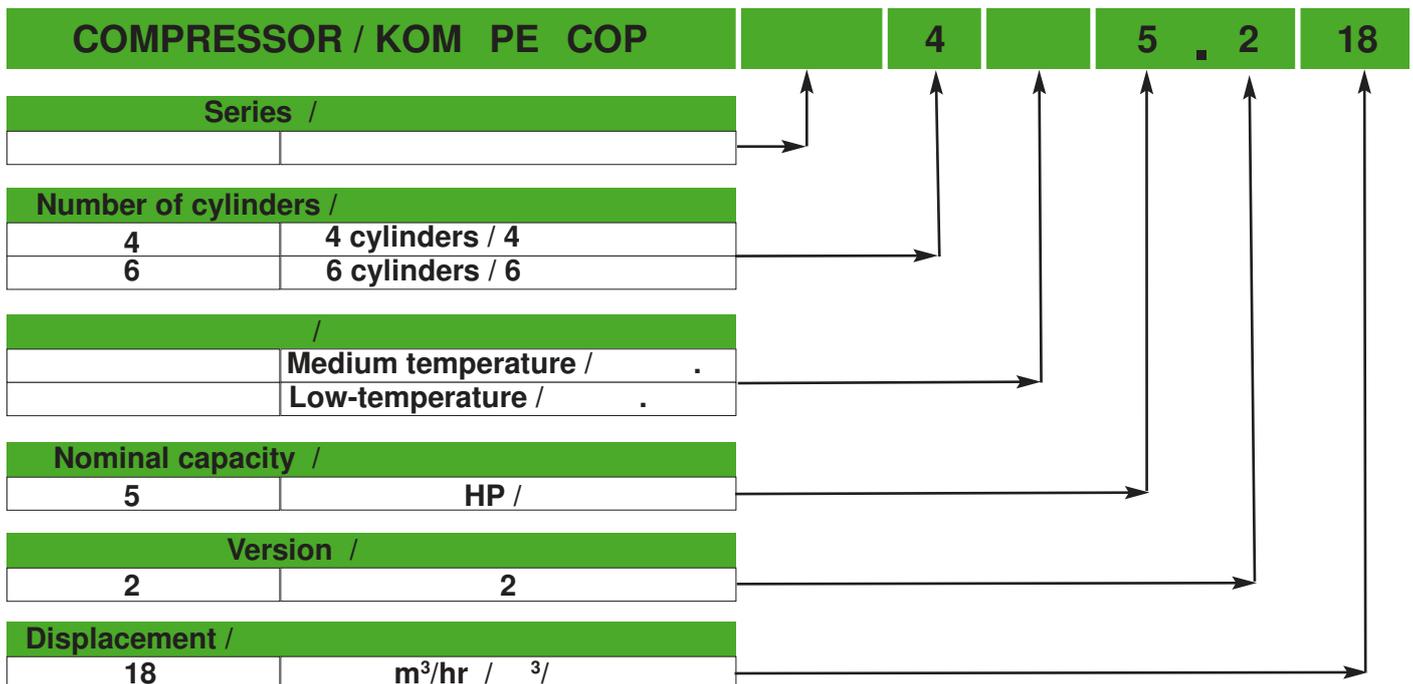


3 50
18 154 ³/

Features and advantages:

- Extended application range;
- High performance and minimal energy consumption;
- Quiet operation and low vibration;
- Reliability;
- Efficient capacity modulation.

Model classification /



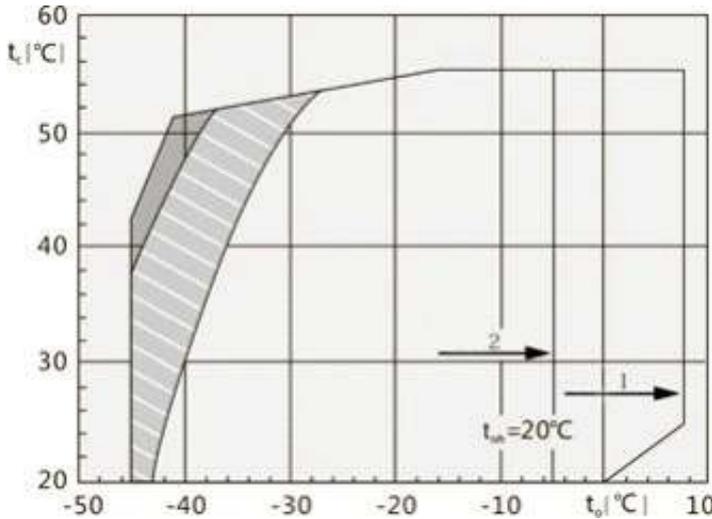
Application limits

Operating parameters at suction gas temperature of 20°C

20°C

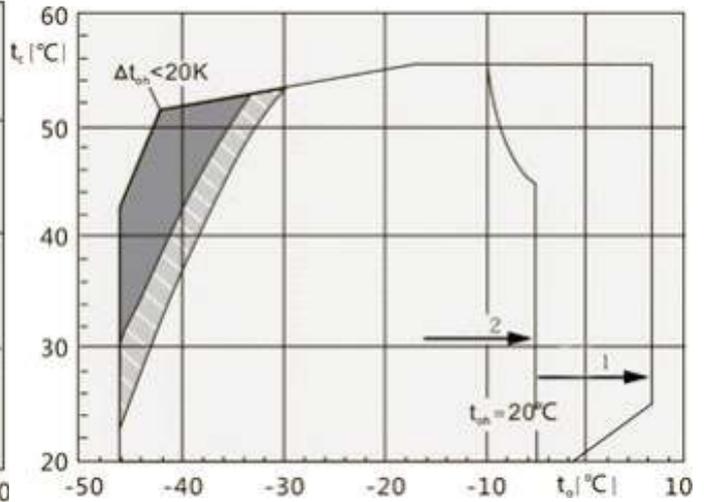
Application limits for refrigerant R404A/R507A

4 -3.2-18 - 4 -9.2-32



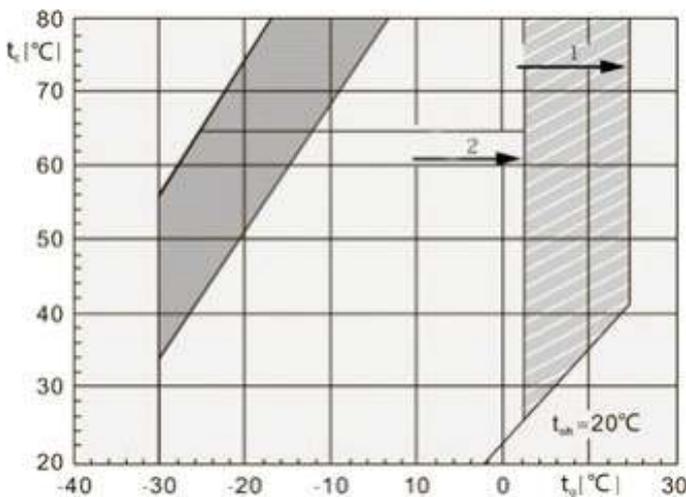
R404A/R507A

4 -6.2-35 - 4 -50.2-121



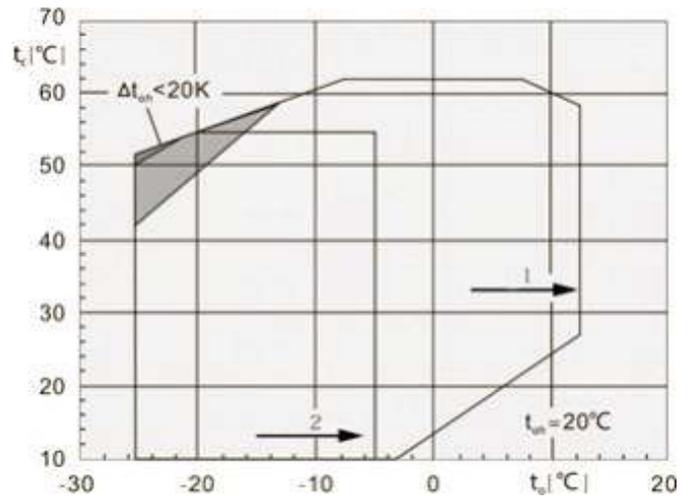
Application limits for refrigerant R134A

R134A



Application limits for refrigerant R407C

R407C



t_0 Evaporation temperature (°C)
 t_{oh} Suction gas temperature (°C)
 t_{oh} Suction gas superheat (K)
 t_k Condensing temperature (°C)

t_0 (°C)
 t_{oh} (°C)
 t_{oh} (K)
 t_k (°C)

 Additional cooling or $t_{oh} < 0^\circ\text{C}$
 Additional cooling
 Additional cooling and $t_{oh} < 20\text{K}$
 Suction gas superheat $< 20\text{K}$

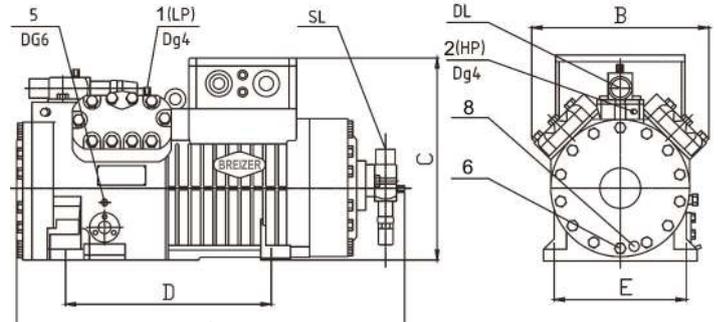
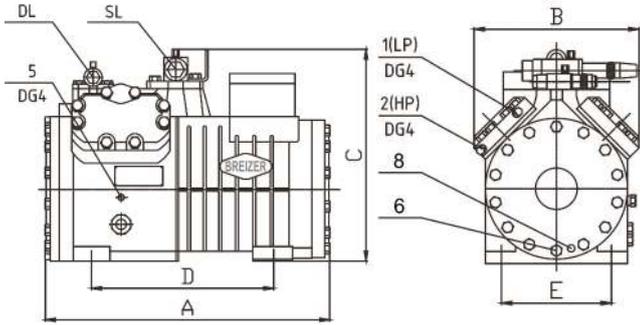
 $t_{oh} < 0^\circ\text{C}$
 + $t_{oh} < 20\text{K}$
 $< 20\text{K}$

Semi-hermetic piston compressors

Drawings with dimensions

4 -3.2-18 ~ 4 -9.2-32

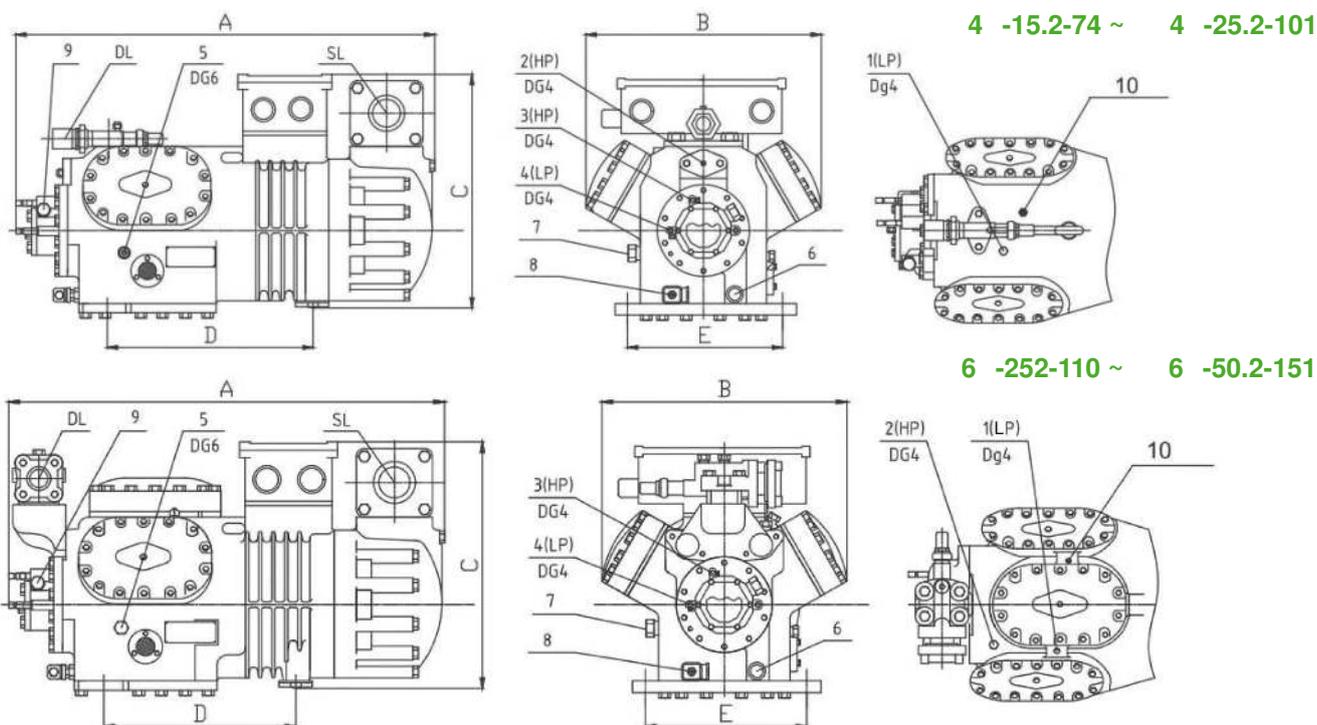
4 -6.2-35 ~ 4 -20.2-56



- 1. Low pressure connection (LP)
- 2. High pressure connection (HP)
- 3. Oil high pressure connection
- 4. Oil low pressure connection
- 5. Oil return (from oil separator)
- 6. Oil drain
- 7. Oil compensation (parallel unit)
- 8. Crankcase heater
- 9. Oil control (oil sensor or Delta-P)
- 10. Sprey nozzle (CIC system)
- DL - Discharge valve
- SL - Suction valve

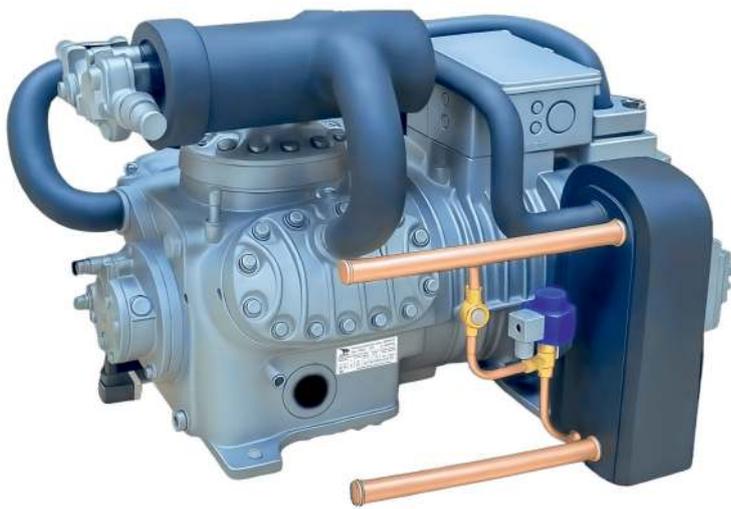
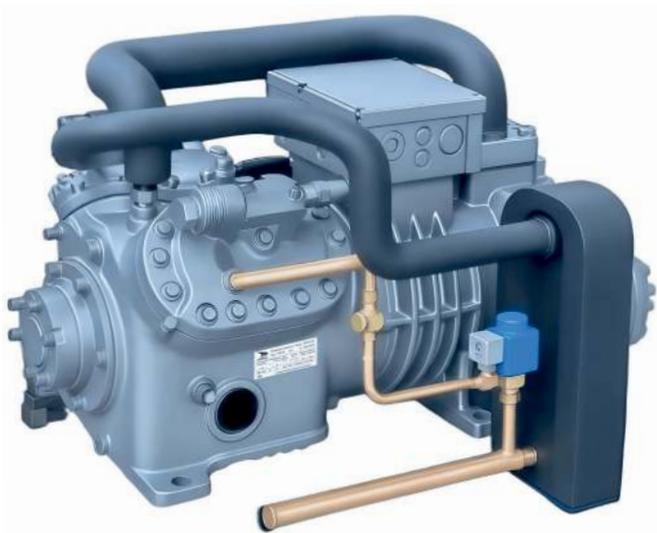
- 1. (LP)
- 2. (HP)
- 3. ()
- 4. ()
- 5. ()
- 6. ()
- 7. ()
- 8. ()
- 9. (Delta-P)
- 10. (CIC system)
- DL -
- SL -

Model	Analog	Nominal power, HP/kW	Parameters			Electrical parameters		
			Number of cylinder	Diameter, mm	Displacement, m ³ /h	MOC, A	Max power, kW	Starting current, A
4 -3.2-18	4FC-3.2	3/2.2	4	41	18.1	9.2	5.4	42.5
4 -5.2-18	4FC-5.2	5/3.7	4	41	18.1	10.8	6.2	63
4 -4.2-22	4EC-4.2	4/3.0	4	46	22.7	10.7	6.4	47
4 -6.2-22	4EC-6.2	6/3.7	4	46	22.7	13.2	7.9	63
4 -5.2-27	4DC-5.2	5/3.7	4	50	26.8	13.5	8.1	63
4 -7.2-27	4DC-7.2	7/4.5	4	50	26.8	15.9	9.1	70
4 -6.2-32	4CC-6.2	6/4.5	4	55	32.5	15.9	9.1	74
4 -9.2-32	4CC-9.2	9/5.6	4	55	32.5	20	11.6	82
4 -6.2-35	4VCS-6.2	6/5.5	4	55	34.7	14	8.1	39/68
4 -10.2-35	4VCS-10.2	10/7.4	4	55	34.7	21	11.3	59/99
4 -8.2-41	4TCS-8.2	8/5.5	4	60	41.3	17	9.4	49/81
4 -12.2-41	4TCS-12.2	12/9.3	4	60	41.3	24	13.8	69/113
4 -10.2-48	4PCS-10.2	10/7.4	4	65	48.5	21	11.7	59/99
4 -15.2-48	4PCS-15.2	15/11.0	4	65	48.5	31	16.3	81/132
4 -12.2-56	4NCS-12.2	12/9.3	4	70	56.2	24	14.1	69/113
4 -20.2-56	4NCS-20.2	20/15.0	4	70	56.2	37	19.5	97/158
4 -15.2-74	4H-15.2	15/11.0	4	70	73.6	31	18.1	81/132
4 -25.2-74	4H-25.2	25/19.0	4	70	73.6	45	24.9	116/193
4 -20.2-84	4G-20.2	20/15.0	4	75	84.5	37	21.5	97/158
4 -30.2-84	4G-30.2	30/22.0	4	75	84.5	53	30.1	135/220
4 -25.2-101	4FE28	25/19.0	4	82	101.1	45	27.2	116/193
6 -25.2-110	6H-25.2	25/19.0	6	70	110.5	45	27.2	116/193
6 -35.2-110	6H-35.2	35/26.0	6	70	110.5	61	37.4	147/262
6 -30.2-127	6G-30.2	30/22.0	6	75	126.8	53	31.9	135/220
6 -40.2-127	6G-40.2	40/30.0	6	75	126.8	78	45.1	180/323
6 -40.2-151	6F-40.2	40/30.0	6	82	151.6	78	38,6	180/323
6 -50.2-151	6F-50.2	50/37.0	6	82	151.6	92	53,2	226/404



Power supply	Pipelines connecting size				Dimensions					Oil volume	Weight	Model
	Discharge		Suction		Length	Width	Height	Footing size				
		inch		inch						D		L
380-420V Y /3/50Hz	16	5/8	22	7/8	432	304	350	293	198	2,0	82	4 -3.2-18
	16	5/8	22	7/8	432	304	350	293	198	2,0	86	4 -5.2-18
	16	5/8	28	1-1/8	432	304	353	293	198	2,0	84	4 -4.2-22
	16	5/8	28	1-1/8	432	304	353	293	198	2,0	87	4 -6.2-22
	22	7/8	28	1-1/8	432	304	353	293	198	2,0	86	4 -5.2-27
	22	7/8	28	1-1/8	458	304	353	293	198	2,0	88	4 -7.2-27
	22	7/8	28	1-1/8	458	304	353	293	198	2,0	91	4 -6.2-32
	22	7/8	28	1-1/8	458	304	353	293	198	2,0	91	4 -9.2-32
	22	7/8	28	1-1/8	649	306	385	367	256	2,6	129	4 -6.2-35
	22	7/8	28	1-1/8	649	306	385	367	256	2,6	139	4 -10.2-35
	28	1-1/8	35	1-3/8	649	306	385	367	256	2,6	134	4 -8.2-41
	28	1-1/8	35	1-3/8	649	306	385	367	256	2,6	141	4 -12.2-41
	28	1-1/8	35	1-3/8	649	306	385	367	256	2,6	139	4 -10.2-48
	28	1-1/8	42	1-5/8	670	306	385	367	256	2,6	147	4 -15.2-48
380-420V YY /3/50Hz	28	1-1/8	42	1-5/8	639	417	453	381	305	4,5	184	4 -15.2-74
	28	1-1/8	54	2-1/8	639	417	453	381	305	4,5	204	4 -25.2-74
	28	1-1/8	54	2-1/8	639	417	453	381	305	4,5	195	4 -20.2-84
	28	1-1/8	54	2-1/8	741	417	453	381	305	4,5	206	4 -30.2-84
	35	1-3/8	54	2-1/8	639	417	453	381	305	4,5	210	4 -25.2-101
	35	1-3/8	54	2-1/8	765	452	445	381	305	4,75	223	6 -25.2-110
	35	1-3/8	54	2-1/8	795	452	445	381	305	4,75	236	6 -35.2-110
	35	1-3/8	54	2-1/8	795	452	445	381	305	4,75	229	6 -30.2-127
	35	1-3/8	54	2-1/8	795	452	445	381	305	4,75	236	6 -40.2-127
	42	1-5/8	54	2-1/8	795	452	445	381	305	4,75	240	6 -40.2-151
42	1-5/8	54	2-1/8	795	452	445	381	305	4,75	242	6 -50.2-151	

DOUBLE-STAGE Breizer compressors



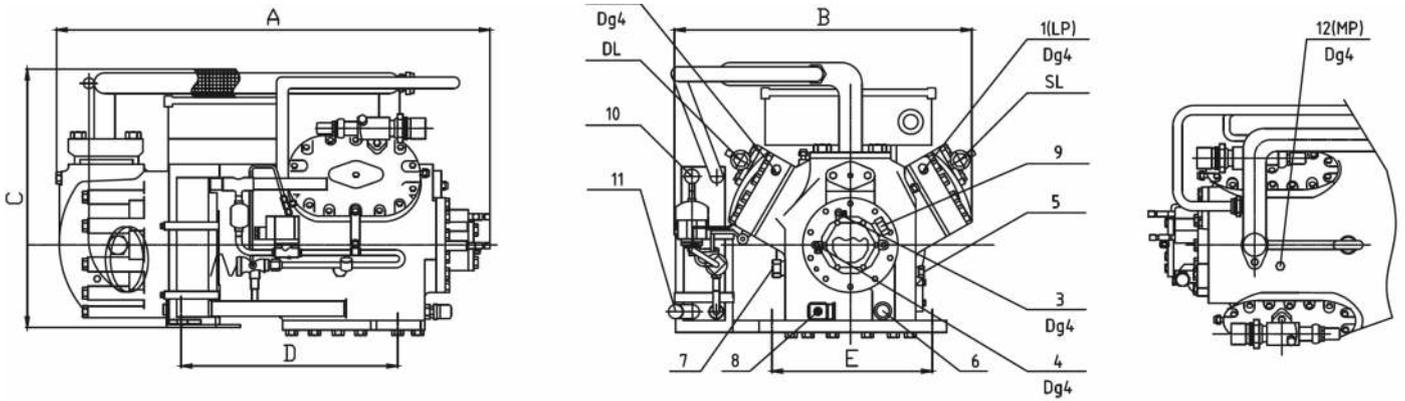
- 1. Low pressure connection (LP)
 - 2. High pressure connection (HP)
 - 3. Oil high pressure connection
 - 4. Oil low pressure connection
 - 5. Oil return (from oil separator)
 - 6. Oil drain
 - 7. Oil compensation (parallel unit)
 - 8. Crankcase heater
 - 9. Oil control (oil sensor or Delta-P)
 - 10. Refrigerant inlet to liquid subcooler
 - 11. Refrigerant outlet from liquid subcooler
 - 12. Intermediate pressure connection(M)
- DL - Discharge valve
SL - Suction valve

- 1. (LP)
 - 2. (HP)
 - 3.
 - 4.
 - 5. ()
 - 6.
 - 7.
 - 8. ()
 - 9. (Delta-P)
 - 10.
 - 11.
 - 12. ()
- DL -
SL -

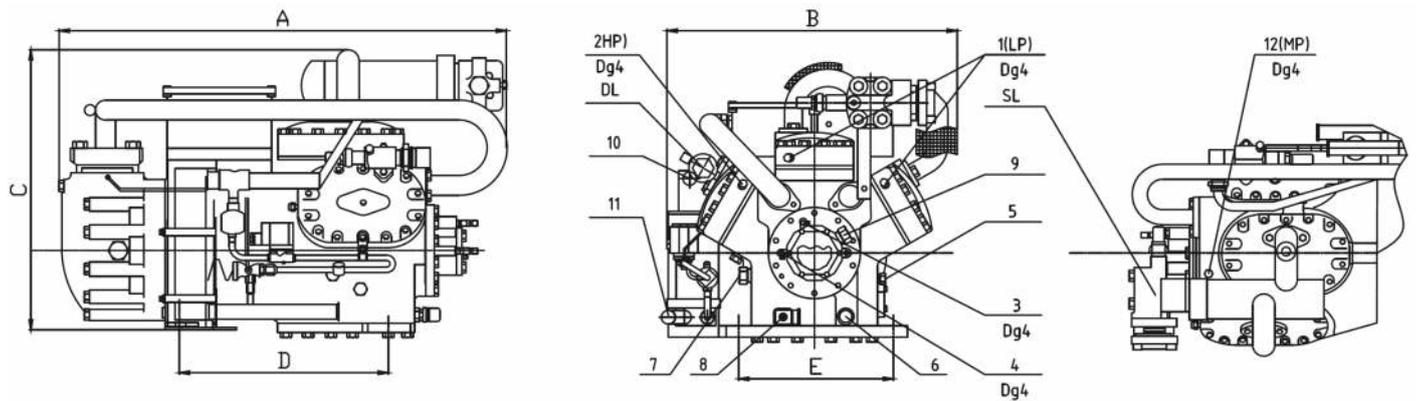
Model	Analog	Nominal power, (HP/KW)	Parameters					Electrical parameters		
			Number of cylinders	Diameter, mm	Displacement, m ³ /h		Max operating current	Max power , kW	Starting current	
					Low	High				
4	12-42	S4G-12.2	12/9.3	4	75	42.3	27.0	24	13.8	69/113
6	20-73	S6H-20.2	20/15.0	6	70	73.6	36.9	37	21.5	97/158
6	25-84	S6G-25.2	25/19.0	6	75	84.5	42.3	45	24.9	116/193
6	3-101	S6F-30.2	30/22.0	6	82	101.1	50.5	53	30.1	135/220

DOUBLE-STAGE Breizer compressors Drawings with dimensions

4 12-42



6 20-73 ~ 6 30-101



Power supply	Pipelines connecting size		Overall Dimensions					Oil volume	Weight	Model	
	Discharge	Suction	Length	Width	Height	Footing size				L	
						D					
380-420V YY/3/50Hz	28	35	674	491	492	381	305	4.5	179	4	12-42
	35	42	850	545	528	381	305	4.75	221	6	20-73
	35	42(54)	850	545	528	381	305	4.75	234	6	25-84
	35	42(54)	850	545	528	381	305	4.75	235	6	3-101

Semihermetic screw Breizer compressors



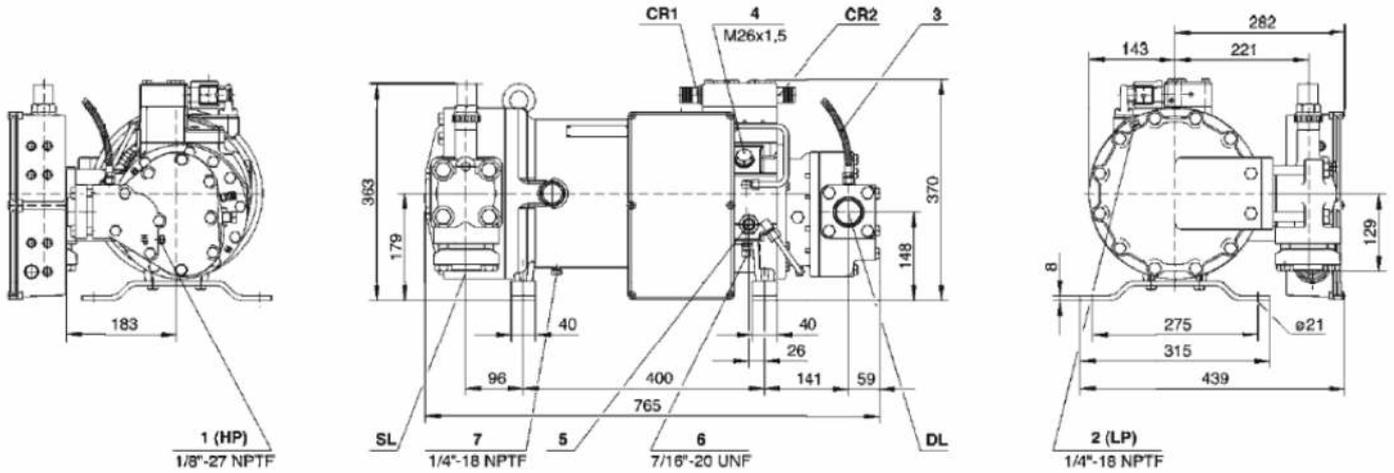
1. Low pressure connection (LP)
 2. High pressure connection (HP)
 3. Discharge gas temperature sensor
 4. Economiser
 5. Oil return
 6. Oil drain (compressor housing)
 7. Oil drain (motor housing)
- DL - Discharge valve
SL - Suction valve

1. (LP)
 2. (HP)
 3. (HP)
 - 4.
 - 5.
 6. ()
 7. ()
- DL -
SL -

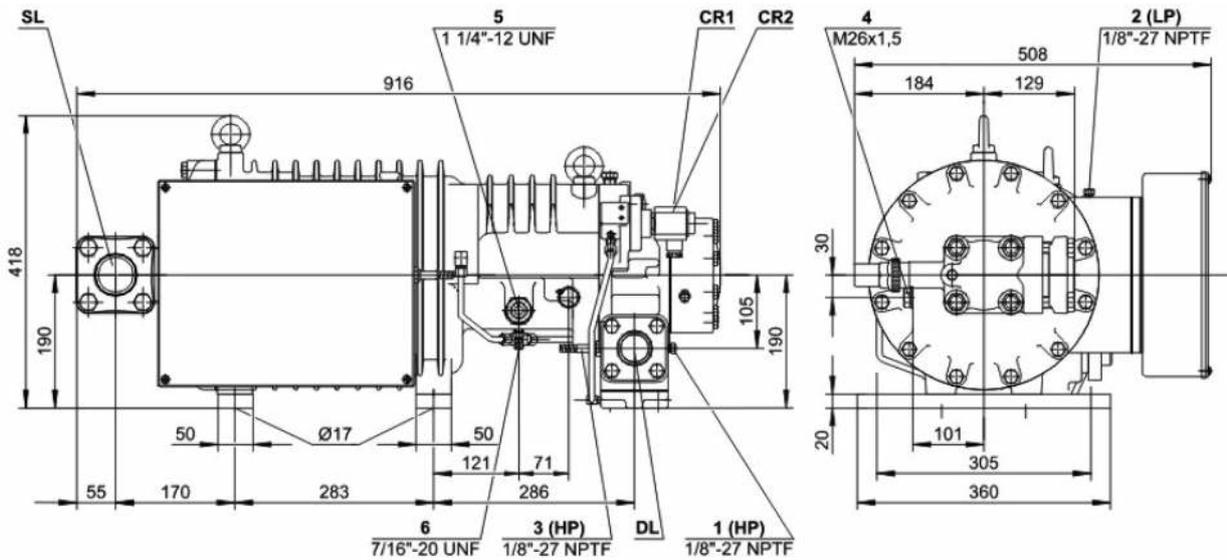
Model	Analog	Nominal power HP/KW	Parameters		Electrical parameters		
			Capacity step, %	Displacement m ³ /h	Max operating current ,	Max power, kW	Starting current
20-84	HSN5343-20	20/15.0	100/90/55	84(50 z)	48	29	129/201
30-84	HSK5343-30	30/22.0	100/90/70		52	33	126/218
25-100	HSN5353-25	25/19.0	100/80/50	100(50Hz)	52	33	126/218
35-100	HSK5353-35	35/26.0	100/85/60		58	37	153/266
30-118	HSN5363-30	30/22.0	100/75/45	118(50Hz)	58	37	153/266
40-118	HSK5363-40	40/30.0	100/80/55		66	42	182/311
40-140	HSN6451-40	40/30.0	100/75/50	140(50Hz)	65	40	187/313
50-140	HSK6451-50	50/37.0	100/85/60		79	50	206/355
50-165	HSN6461-50	50/37.0	100/75/45	165(50Hz)	79	50	206/355
60-165	HSK6461-60	60/45.0	100/80/55		98	65	267/499

Semihermetic screw compressors Drawings with dimensions

20-84 - 40-118

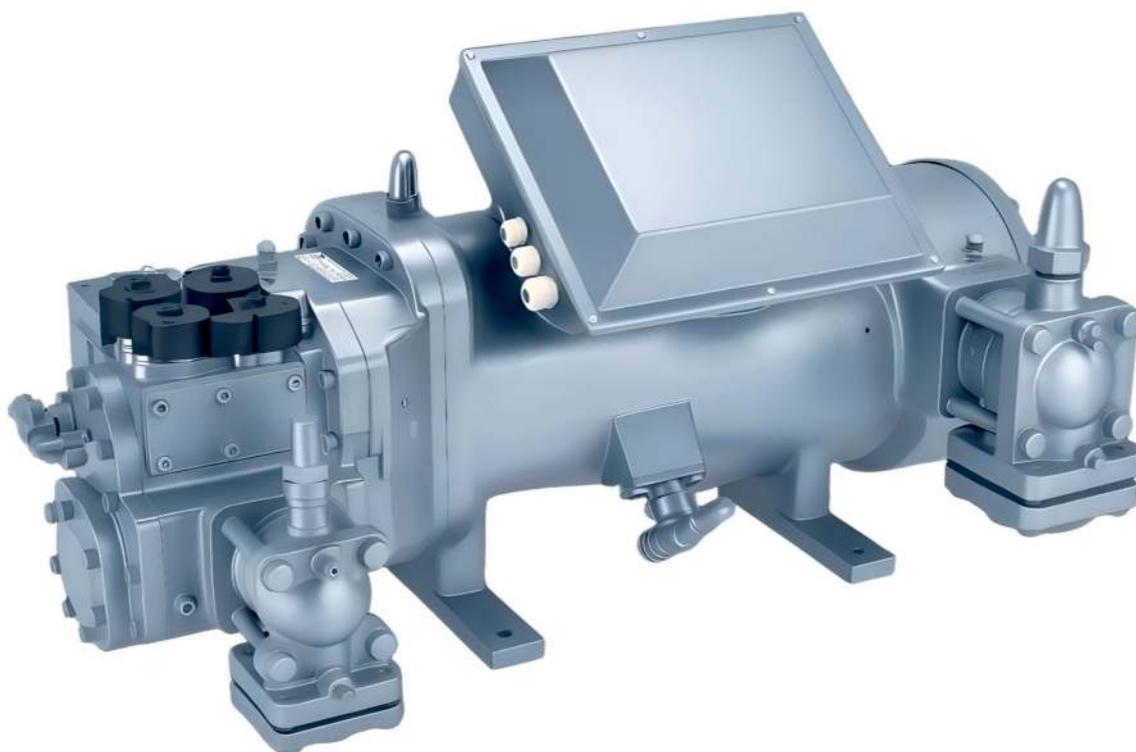


40-140 - 60-165



Power supply	Pipelines connecting size				Overall Dimensions					Weight	Model
	Discharge		Suction		Length	Width	Height	Mounting dimension			
	D	D	D	D				D	D		
380-420V 3/50Hz	42	1 5/8	54	2 1/8	765	439	370	400	275	166	20-84
	42	1 5/8	54	2 1/8	765	439	370	400	275	170	30-84
	42	1 5/8	54	2 1/8	765	439	370	400	275	169	25-100
	42	1 5/8	54	2 1/8	765	439	370	400	275	178	35-100
	42	1 5/8	54	2 1/8	765	439	370	400	275	174	30-118
	42	1 5/8	54	2 1/8	765	439	370	400	275	183	40-118
	42	1 5/8	54	2 1/8	916	508	418	283	305	234	40-140
	42	1 5/8	54	2 1/8	916	508	418	283	305	238	50-140
	42	1 5/8	54	2 1/8	916	508	418	283	305	238	50-165
	42	1 5/8	54	2 1/8	916	508	418	283	305	246	60-165

Semihermetic screw Breizer compressors



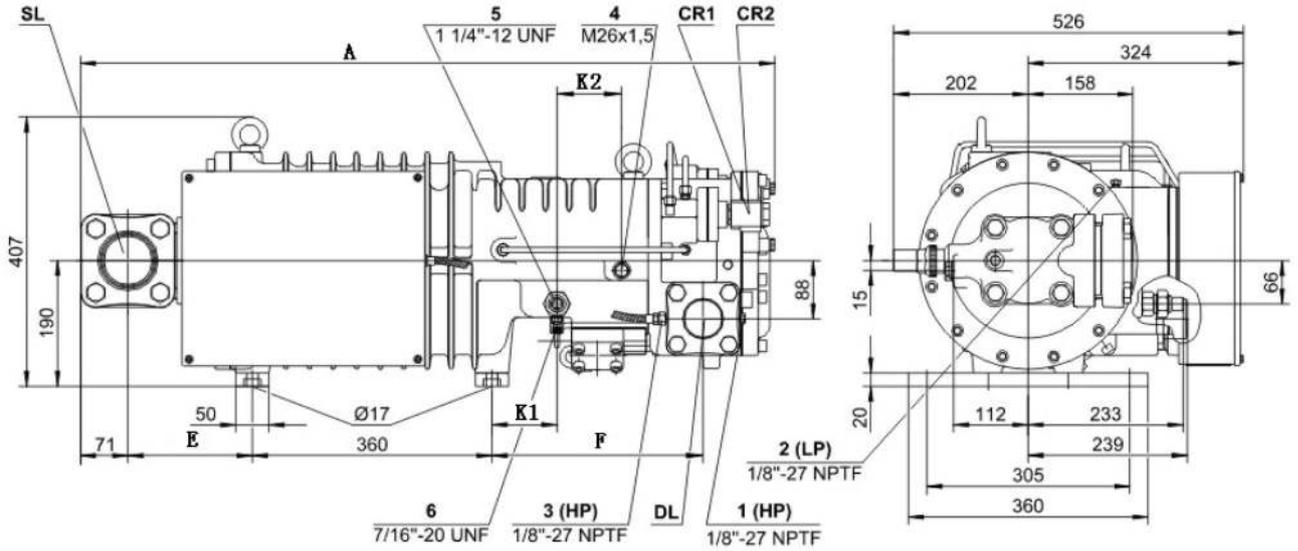
1. Low pressure connection (LP)
 2. High pressure connection (HP)
 3. Discharge gas temperature sensor
 4. Economiser
 5. Oil return
 6. Oil drain (compressor housing)
 7. Oil drain (motor housing)
- DL - Discharge valve
SL - Suction valve

1. (LP)
 2. (HP)
 3. (HP)
 - 4.
 - 5.
 6. ()
 7. ()
- DL -
SL -

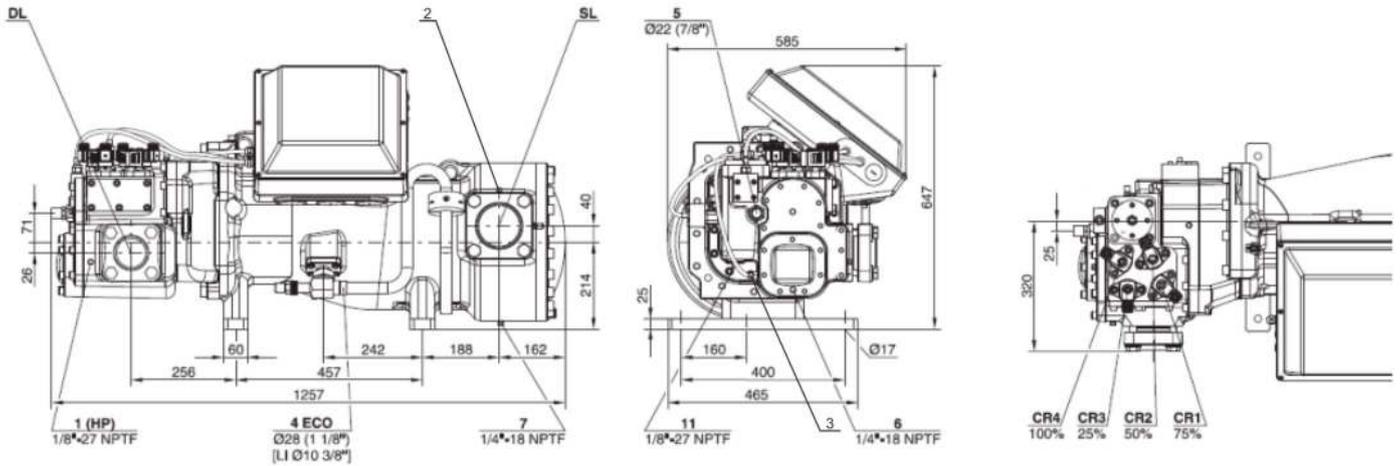
Model	Analog	Nominal power HP/KW	Parameters		Electrical parameters		
			Capacity step, %	Displacement m ³ /h	Max operating current ,	Max power, kW	Starting current
60-192	HSN7451-60	60/45.0	100/80/65	192(50Hz)	98	65	267/499
70-192	HSK7451-70	70/53.0	100/75/45	220(50Hz)	124	75	290/485
70-220	HSN7461-70	70/53.0	100/75/60		124	75	290/485
80-220	HSK7461-80	80/60.0	100/70/40	250(50Hz)	144	85	350/585
75-250	HSN7471-75	80/60.0	100/75/55		144	85	350/585
90-250	HSK7471-90	90/68.0	100/60/40	410(50Hz)	162	92	423/686
125-410	HSN8571-125	125/94.0	100/50		216	130	612/943
140-410	HSK8571-140	140/105.0		410(50Hz)	246	150	665/1023
160-535	HSN8591-160	160/120.0	100/75/50	535(50Hz)	260	170	729/1114
180-535	HSK8591-180	180/135.0			330	181	757/1181

Semihermetic screw compressors Drawings with dimensions

60-192 - 90-250



125-410 - 180-535



Power supply	Pipelines connecting size				Overall Dimensions					Weight	Model
	Discharge		Suction		Length	Width	Height	Mounting dimension			
	D	D	D	D							
380-420V 3/50Hz	54	2 1/8	76	3 1/8	1021	526	407	360	305	297	60-192
	54	2 1/8	76	3 1/8	1021	526	407	360	305	305	70-192
	54	2 1/8	76	3 1/8	1021	526	407	360	305	310	70-220
	54	2 1/8	76	3 1/8	1021	526	407	360	305	314	80-220
	54	2 1/8	76	3 1/8	1043	526	407	360	305	326	75-250
	54	2 1/8	76	3 1/8	1093	526	407	360	305	336	90-250
	76	3 1/8	114	4 1/2	1257	585	647	457	400	575	125-410
	76	3 1/8	114	4 1/2	1257	585	647	457	400	580	140-410
	76	3 1/8	114	4 1/2	1262	585	647	457	400	605	160-535
	76	3 1/8	114	4 1/2	1262	585	647	457	400	615	180-535

Capacity R404a / R507

R404a / R507

Model	Condensing T. (°C)	Q ₀ () / P _e ()												
		Cooling capacity Q ₀ (kW) / Power consumption P _e (kW)												
		(°C)												
		Evaporation temperature (°C)												
		7.5	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45	
4 -3.2-18	30	Q ₀				13.71	11.32	9.26	7.47	5.94	4.63	3.51	2.58	1.80
		P _e				3.87	3.68	3.45	3.20	2.92	2.59	2.25	1.89	1.51
	40	Q ₀				11.55	9.52	7.74	6.20	4.88	3.75	2.79	1.98	1.31
		P _e				4.44	4.12	3.78	3.42	3.05	2.64	2.24	1.83	1.41
	50	Q ₀				9.45	7.74	6.26	4.97	3.86	2.91	2.11	1.43	
		P _e				4.94	4.50	4.06	3.61	3.15	2.68	2.23	1.78	
4 -5.2-18	30	Q ₀	21.54	19.78	16.58	13.80	11.39	9.32	7.52	5.97	4.65	3.53	2.58	
		P _e	3.80	3.81	3.78	3.69	3.54	3.34	3.09	2.80	2.49	2.16	1.82	
	40	Q ₀	18.23	16.73	14.01	11.64	9.58	7.79	6.24	4.90	3.76	2.79	1.97	
		P _e	4.67	4.62	4.48	4.27	4.01	3.71	3.67	3.00	2.60	2.19	1.77	
	50	Q ₀	14.96	13.72	11.46	9.50	7.78	6.28	4.98	3.86	2.90	2.09	1.41	
		P _e	5.47	5.36	5.10	4.77	4.41	4.00	3.57	3.12	2.63	2.15	1.66	
4 -4.2-22	30	Q ₀				17.32	14.28	11.65	9.40	7.45	5.80	4.39	3.21	2.22
		P _e				4.63	4.41	4.14	3.83	3.47	3.08	2.66	2.23	1.79
	40	Q ₀				14.43	11.86	9.65	7.72	6.07	4.65	3.45	2.44	1.59
		P _e				5.31	4.96	4.55	4.12	3.66	3.17	2.66	2.15	1.64
	50	Q ₀				11.64	9.55	7.72	6.13	4.76	3.59	2.59	1.75	
		P _e				5.89	5.42	4.89	4.35	3.79	3.21	2.61	2.03	
4 -6.2-22	30	Q ₀	27.49	25.19	21.09	17.57	14.49	11.82	9.53	7.55	5.86	4.42	3.21	
		P _e	4.75	4.77	4.75	4.64	4.45	4.19	3.87	3.50	3.10	2.66	2.22	
	40	Q ₀	23.14	21.24	17.77	14.56	12.11	9.84	7.86	6.16	4.70	3.47	2.42	
		P _e	5.90	5.84	5.65	5.38	5.04	4.63	4.19	3.70	3.19	2.66	2.13	
	50	Q ₀	18.92	17.35	14.48	11.97	9.79	7.89	6.24	4.82	3.60	2.57	1.71	
		P _e	6.89	6.75	6.40	5.98	5.50	4.98	4.40	3.81	3.21	2.59	1.98	
4 -5.2-27	30	Q ₀				21.09	17.41	14.21	11.46	9.10	7.08	5.37	3.93	2.73
		P _e				5.55	5.32	5.02	4.64	4.17	3.72	3.21	2.67	2.12
	40	Q ₀				17.64	14.51	11.80	9.46	7.44	5.72	4.25	3.01	1.98
		P _e				6.37	5.98	5.53	5.02	4.45	3.85	3.24	2.61	1.99
	50	Q ₀				14.29	11.72	9.49	7.55	5.88	4.44	3.22	2.19	
		P _e				7.11	6.56	5.96	5.32	4.64	3.94	3.24	2.53	
4 -7.2-27	30	Q ₀	32.58	29.89	24.99	20.79	17.11	13.94	11.20	8.86	6.86	5.16	3.72	
		P _e	5.52	5.55	5.54	5.42	5.21	4.90	4.54	4.12	3.65	3.14	2.60	
	40	Q ₀	27.49	25.19	21.09	17.48	14.34	11.62	9.27	7.25	5.51	4.04	2.80	
		P _e	6.84	6.78	6.58	6.29	5.91	5.46	4.94	4.37	3.76	3.13	2.48	
	50	Q ₀	22.49	20.59	17.20	14.22	11.61	9.35	7.38	5.69	4.24	3.01	1.98	
		P _e	8.02	7.87	7.50	7.04	6.49	5.89	5.23	4.52	3.80	3.05	2.29	
4 -6.2-32	30	Q ₀				24.94	20.64	16.89	13.66	10.90	8.54	6.53	48.40	3.42
		P _e				6.68	6.39	6.01	5.55	5.04	4.47	3.88	3.27	2.64
	40	Q ₀				21.09	17.41	14.19	11.41	9.03	6.98	5.24	3.77	2.54
		P _e				7.68	7.21	6.66	6.06	5.40	4.69	3.96	3.23	2.48
	50	Q ₀				17.31	14.21	11.51	9.19	7.18	5.46	4.00	2.77	
		P _e				8.65	8.02	7.32	6.54	5.74	4.89	4.03	3.16	
4 -9.2-32	30	Q ₀	38.78	35.58	29.89	24.89	20.59	16.87	13.65	10.89	8.53	6.53	4.84	
		P _e	6.88	6.90	6.85	6.67	6.39	6.01	5.56	5.04	4.47	3.88	3.27	
	40	Q ₀	32.83	30.14	25.29	210.90	17.40	14.20	11.43	9.05	7.00	5.25	3.77	
		P _e	8.39	8.31	8.05	7.67	7.22	6.66	6.05	5.39	4.68	3.96	3.21	
	50	Q ₀	27.04	24.84	20.89	17.37	14.30	11.61	9.28	7.24	5.48	3.69	2.66	
		P _e	9.85	9.67	9.21	8.65	7.93	7.32	6.55	5.74	4.89	4.03	3.16	
4 -6.2-35	30	Q ₀				27.04	22.90	18.18	14.63	11.59	8.99	6.78	4.92	3.37
		P _e				7.21	6.74	6.21	5.65	5.05	4.42	3.78	3.13	2.47
	40	Q ₀				22.74	18.66	15.13	12.08	9.47	7.23	5.32	3.72	2.38
		P _e				8.16	7.49	6.79	6.06	5.31	4.54	3.76	2.97	2.16
	50	Q ₀				14.96	12.04	9.53	7.37	5.52	3.95	2.64		
		P _e				8.02	7.16	6.29	5.44	4.57	3.68	2.79		
4 -10.2-35	30	Q ₀	42.73	39.18	32.78	27.24	22.39	18.23	14.60	11.48	8.81	6.53	4.58	
		P _e	7.18	7.17	7.05	6.79	6.44	5.99	5.48	4.90	4.29	3.66	3.02	
	40	Q ₀	36.08	33.08	27.59	22.84	18.67	15.06	11.94	9.26	6.96	5.00	3.35	
		P _e	8.71	8.58	8.22	7.73	7.18	6.53	5.83	5.10	4.33	3.57	2.81	
	50	Q ₀	29.54	27.04	22.49	18.48	15.01	12.00	9.41	7.18	5.29	3.69	2.36	
		P _e	10.02	9.76	9.18	8.48	7.72	6.90	6.04	5.16	4.28	3.41	2.58	
4 -8.2-41	30	Q ₀				33.03	27.24	22.19	17.88	14.16	10.99	8.30	6.04	4.15
		P _e				8.78	8.21	7.59	6.90	6.19	5.44	4.66	3.88	3.09
	40	Q ₀				27.74	22.79	18.47	14.75	11.55	8.83	6.52	4.58	2.96
		P _e				9.91	9.10	8.24	7.38	6.49	5.60	4.68	3.76	2.82
	50	Q ₀					18.34	14.78	11.70	9.07	6.80	4.88	3.26	
		P _e					9.79	8.75	7.72	6.68	5.64	4.57	3.48	

Capacity R404a / R507

R404a / R507

Model	Condensing T. (°C)	Q ₀ () / P _e ()												
		Cooling capacity Q ₀ (kW) / Power consumption P _e (kW)												
		(°C)												
		Evaporation temperature (°C)												
			7.5	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45
4 -12.2-41	30	Q ₀	51.47	47.18	39.43	32.73	26.89	21.89	17.54	13.82	10.65	7.96	5.70	
		P _e	8.67	8.67	8.53	8.26	7.85	7.33	6.71	6.03	5.29	4.50	3.70	
	40	Q ₀	43.48	39.83	33.28	27.54	22.59	18.25	14.52	11.31	8.59	6.27	4.32	
		P _e	10.71	10.52	10.04	9.45	8.76	8.00	7.19	6.32	5.43	4.53	3.64	
	50	Q ₀	35.38	32.38	27.04	22.34	18.22	14.64	11.54	8.88	6.59	4.65	3.02	
		P _e	12.34	11.99	11.23	10.38	9.47	8.49	7.49	6.42	5.42	4.38	3.38	
4 -10.2-48	30	Q ₀				38.28	31.58	25.74	20.69	16.38	12.68	9.55	6.91	4.69
		P _e				10.12	9.42	8.69	7.91	7.10	6.25	5.37	4.45	3.50
	40	Q ₀				32.28	26.49	21.49	17.12	13.39	10.21	7.52	5.24	3.35
		P _e				11.45	10.50	9.52	8.49	7.45	6.38	5.33	4.27	3.24
	50	Q ₀					21.49	17.28	13.65	10.55	7.89	5.64	3.76	
		P _e					11.32	10.09	8.84	7.57	6.31	5.08	3.90	
4 -15.2-48	30	Q ₀	61.47	56.37	47.08	39.03	32.08	25.99	20.79	16.31	12.48	9.24	6.50	
		P _e	10.28	10.24	10.01	9.63	9.11	8.47	7.74	6.94	6.07	5.17	4.25	
	40	Q ₀	52.17	47.83	39.93	33.03	27.04	21.84	17.35	13.48	10.19	7.39	5.02	
		P _e	12.47	12.20	11.57	10.84	10.04	9.16	8.22	7.23	6.20	5.16	4.09	
	50	Q ₀	42.58	38.98	32.48	26.74	21.79	17.42	13.67	10.46	7.71	5.38	3.42	
		P _e	14.34	13.84	12.84	11.79	10.71	9.60	8.47	7.32	6.14	4.97	3.77	
4 -12.2-56	30	Q ₀				43.98	36.23	29.54	23.74	18.80	14.57	11.00	7.98	5.47
		P _e				11.94	11.21	10.08	9.40	8.39	7.34	6.26	5.22	4.20
	40	Q ₀				37.28	30.59	24.79	19.80	15.50	11.83	8.74	6.12	3.95
		P _e				13.46	12.39	11.24	10.02	8.75	7.48	6.22	5.02	3.89
	50	Q ₀					24.84	19.99	15.81	12.20	9.12	6.51	4.30	
		P _e					13.35	11.89	10.42	8.96	7.49	6.04	4.62	
4 -20.2-56	30	Q ₀	70.97	65.07	54.47	45.23	37.18	30.24	24.24	19.06	14.63	10.86	7.60	
		P _e	12.24	12.26	12.00	11.53	10.87	10.09	9.19	8.20	7.16	6.10	5.05	
	40	Q ₀	60.47	55.37	46.23	38.18	31.23	25.19	19.99	15.52	11.72	8.51	5.82	
		P _e	14.85	14.56	13.86	12.98	11.97	10.85	9.67	8.44	7.20	5.98	4.80	
	50	Q ₀	49.88	45.63	37.88	31.09	25.24	20.14	15.75	12.00	8.84	6.18	3.98	
		P _e	16.86	16.36	15.26	14.02	12.69	11.30	9.86	8.42	7.01	5.66	4.39	
4 -15.2-74	30	Q ₀				58.47	48.38	39.68	32.18	25.74	20.24	15.55	11.62	8.35
		P _e				15.86	14.91	13.86	12.69	11.48	10.15	8.81	7.47	6.13
	40	Q ₀				49.83	41.13	33.58	27.09	21.49	16.72	12.65	9.24	6.38
		P _e				18.25	16.88	15.42	13.89	12.31	10.70	9.10	7.51	5.96
	50	Q ₀					33.93	27.59	22.04	17.32	13.26	9.82	6.92	
		P _e					18.59	16.75	14.87	12.98	11.09	9.22	7.41	
4 -25.2-74	30	Q ₀	90.66	83.16	69.67	57.87	47.75	38.93	31.33	24.79	19.20	14.45	10.45	
		P _e	16.22	16.15	15.80	15.22	14.43	13.48	12.38	11.17	9.86	8.50	7.12	
	40	Q ₀	77.36	70.97	59.47	49.38	40.63	32.98	26.44	20.79	15.92	11.79	8.32	
		P _e	19.66	19.31	18.46	17.41	16.19	14.83	13.38	11.84	10.25	8.64	7.04	
	50	Q ₀	64.47	59.07	49.48	40.98	33.58	27.19	21.59	16.82	12.73	9.26	6.34	
		P _e	22.89	22.29	20.94	19.43	17.80	16.06	14.25	12.40	10.54	8.70	6.90	
4 -20.2-84	30	Q ₀				67.07	55.47	45.38	36.73	29.34	22.99	17.59	13.05	9.26
		P _e				18.31	17.20	15.97	14.62	13.19	11.68	10.13	8.57	7.01
	40	Q ₀				57.17	47.28	38.68	31.18	24.79	19.24	14.53	10.54	7.16
		P _e				21.05	19.46	17.77	16.01	14.20	12.36	10.52	8.69	6.93
	50	Q ₀					38.73	31.63	25.44	20.09	15.47	11.50	8.12	
		P _e					21.36	19.25	17.11	14.94	12.79	10.68	8.64	
4 -30.2-84	30	Q ₀	103.75	95.25	79.86	66.47	54.87	44.88	36.23	28.79	22.44	17.03	12.47	
		P _e	19.31	19.17	18.67	17.90	16.92	15.78	14.48	13.09	11.63	10.14	8.65	
	40	Q ₀	89.06	81.76	68.57	56.97	46.98	38.23	30.69	24.19	18.60	13.85	9.85	
		P _e	23.49	23.00	21.84	20.48	18.97	17.35	15.64	13.88	12.12	10.38	8.72	
	50	Q ₀	74.26	68.17	57.07	47.38	38.88	31.48	25.09	19.57	14.83	10.80	7.41	
		P _e	27.15	26.33	24.58	22.69	20.70	18.65	16.58	14.52	12.51	10.59	8.80	
4 -25.2-101	30	Q ₀				75.80	62.80	51.60	41.90	33.60	26.40	20.30	15.09	10.70
		P _e				20.20	18.75	17.26	15.74	14.19	12.57	10.90	9.15	7.32
	40	Q ₀				65.70	54.30	44.35	35.80	28.40	22.10	16.69	12.10	8.24
		P _e				22.90	21.00	19.16	17.24	15.28	13.26	11.19	9.06	6.85
	50	Q ₀					44.90	36.50	29.25	23.00	17.61	13.01	9.11	
		P _e					23.20	20.90	18.63	16.28	13.87	11.40	8.87	

Q₀ (kW) = Capacity (kW)

P_e (kW) = Power consumption (kW)

Capacity at 50Hz, suction gas temperature 20°C, subcooling = 0K

Additional cooling or suction gas temperature limitation

Capacity R404a / R507

R404a / R507

Model	Condensing T. (°C)	Q ₀ () / P _e ()												
		Cooling capacity Q ₀ (kW) / Power consumption P _e (kW)												
		(°C)												
		Evaporation temperature (°C)												
			7.5	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45
6 -25.2-110	30	Q ₀				87.56	72.50	59.27	47.78	37.98	29.69	22.64	16.73	11.84
		P _e				23.62	22.26	20.68	18.92	17.02	15.03	12.96	10.86	8.79
	40	Q ₀				74.66	61.57	50.18	40.38	31.88	24.69	18.58	13.43	9.13
		P _e				27.34	25.31	23.12	20.78	18.37	15.36	13.43	10.98	8.58
	50	Q ₀					50.48	41.13	32.98	25.94	19.91	14.75	10.39	
		P _e					27.92	25.15	22.29	19.41	16.51	13.66	10.88	
6 -35.2-110	30	Q ₀	135.93	124.74	104.45	86.86	71.56	58.37	46.98	37.18	28.79	21.69	15.71	
		P _e	25.24	24.96	24.19	23.16	21.88	20.39	18.73	16.91	14.99	12.96	10.86	
	40	Q ₀	116.24	106.55	89.26	74.06	60.87	49.43	39.58	31.09	23.79	17.66	12.47	
		P _e	29.96	29.35	27.93	26.27	24.42	22.40	20.24	17.97	15.61	13.20	10.76	
	50	Q ₀	96.55	88.56	74.06	61.37	50.38	40.68	32.38	25.24	19.15	13.99	9.67	
		P _e	34.43	33.40	31.35	29.11	26.69	24.16	21.52	18.80	16.04	13.27	10.50	
6 -30.2-127	30	Q ₀				98.25	81.16	66.37	53.57	42.68	33.33	25.39	18.75	13.20
		P _e				26.90	25.20	23.33	21.31	19.18	16.97	14.61	12.23	9.81
	40	Q ₀				83.96	69.27	56.57	45.53	36.03	27.89	20.99	15.12	10.21
		P _e				31.01	28.64	26.13	23.50	20.78	17.99	15.15	12.27	9.39
	50	Q ₀					57.57	46.88	37.58	29.54	22.59	16.71	11.70	
		P _e					31.59	28.49	25.31	22.05	18.76	15.45	12.12	
6 -40.2-127	30	Q ₀	156.02	143.13	119.94	99.85	82.46	67.37	54.27	43.13	33.58	25.54	18.72	
		P _e	30.61	30.06	28.80	27.34	25.70	23.89	21.93	19.85	17.65	15.36	13.00	
	40	Q ₀	133.33	122.34	102.65	85.36	70.27	57.27	45.98	36.28	27.99	20.89	14.93	
		P _e	35.67	34.78	32.86	30.77	28.52	26.15	23.66	21.07	18.39	15.65	12.86	
	50	Q ₀	110.75	101.75	85.36	70.87	58.27	47.33	37.78	29.54	22.49	16.44	11.32	
		P _e	40.39	39.17	36.60	33.90	30.07	28.13	25.15	22.03	18.88	15.71	12.52	
6 -40.2-151	30	Q ₀				118.70	98.05	80.06	64.67	51.37	40.08	30.49	22.39	15.59
		P _e				31.62	29.89	27.83	25.50	22.95	20.24	17.43	14.56	11.69
	40	Q ₀				100.85	83.06	67.57	54.27	42.78	32.93	24.59	17.56	11.67
		P _e				36.18	33.60	30.74	27.69	24.48	21.17	17.82	14.47	11.20
	50	Q ₀					68.27	55.27	44.03	34.28	26.04	18.98	13.05	
		P _e					36.86	33.25	29.48	25.62	21.73	17.85	14.05	
6 -50.2-151	30	Q ₀	184.31	169.22	142.13	118.54	98.05	80.36	65.17	52.07	40.88	31.38	23.44	
		P _e	36.42	35.94	34.66	33.03	31.11	28.93	26.56	24.06	21.49	18.88	16.31	
	40	Q ₀	157.82	144.93	121.64	101.25	83.56	68.27	54.97	43.58	33.83	25.59	18.61	
		P _e	43.35	42.31	40.00	37.41	34.60	31.63	28.54	25.41	22.26	19.19	16.22	
	50	Q ₀	130.94	120.14	100.75	83.76	68.87	55.97	44.78	35.13	26.94	19.95	14.08	
		P _e	50.05	48.45	45.07	41.50	37.79	34.00	30.17	26.37	22.64	19.07	15.67	

Q₀ (kW) = Capacity (kW)
 P_e (kW) = Power consumption (kW)
 Capacity at 50Hz, suction gas temperature 20°C, subcooling = 0K
 Additional cooling or suction gas temperature limitation

Q₀ () = ()
 P_e () = ()
 50 , 20°C, = 0

BREIZER semi-hermetic piston compressors

Technical specifications

Model	Nominal power (HP/KW)	Displacement, m ³ /h	Number of cylinders x stroke mm	Pipelines connecting size		Oil volume L/	Power supply	Max operating current A	Starting current	Crankcase heating capacity (W)	Weight KG
				Discharge	Suction mm						
4 -3.2-18	3/2,2	18.1	4 41 39,3	16	22	2	380-420V/3/50Hz	9.2	42.5	120	82
4 -5.2-18	5/3,7	18.1	4 41 39,3	16	22	2		10.8	63	120	86
4 -4.2-22	4/3,0	22.7	4 46 39,3	16	28	2		10.7	47	120	84
4 -6.2-22	6/3,7	22.7	4 46 39,3	16	28	2		13.2	63	120	87
4 -5.2-27	5/3,7	26.8	4 50*39,3	22	28	2		13.5	63	120	86
4 -7.2-27	7/4,5	26.8	4 50 39,3	22	28	2		15.9	70	120	88
4 -6.2-32	6/4,5	32.5	4 55 39,3	22	28	2		15.9	74	120	91
4 -9.2-32	9/5,6	32.5	4 55 39,3	22	28	2		20	82	120	91
4 -6.2-35	6/3,7	34.7	4 55 42	22	28	2.6		14	39/68	120	129
4 -10.2-35	10/7,4	34.7	4 55 42	22	28	2.6		21	59/99	120	139
4 -8.2-41	8/5,5	41.3	4 60 42	28	35	2.6		17	49/81	120	134
4 -12.2-41	12/9,3	41.3	4 60 42	28	35	2.6		24	69/113	140	141
4 -10.2-48	10/7,4	48.5	4 65 42	28	35	2.6		21	59/99	140	139
4 -15.2-48	15/11,0	48.5	4 65 42	28	42	2.6		31	81/132	140	147
4 -12.2-56	12/9,3	56.2	4 70 42	28	35	2.6		24	69/113	140	143
4 -20.2-56	20/15	56.2	4 70 42	28	42	2.6		37	97/158	140	152
4 -15.2-74	15/11,0	73.6	4 70 55	28	42	4.5		31	81/132	140	184
4 -25.2-74	25/19	73.6	4 70 55	28	54	4.5		45	116/193	140	204
4 -20.2-84	20/15	84.5	4 75 55	28	54	4.5		37	97/158	140	195
4 -30.2-84	30/22	84.5	4 75 55	28	54	4.5		53	135/220	140	206
6 -25.2-101	25/19	101.1	4 82 55	35	54	4.5		45	116/193	140	210
6 -25.2-110	25/19	110.5	6 70 55	35	54	4.75		45	116/193	140	223
6 -35.2-110	35/26	110.5	6 70 55	35	54	4.75		61	147/262	140	236
6 -30.2-127	30/22	126.8	6 75 55	35	54	4.75		53	135/220	140	229
6 -40.2-127	40/30	126.8	6 75 55	35	54	4.75		78	180/323	140	236
6 -40.2-151	40/30	151.6	6 82 55	42	54	4.75		78	180/323	140	240
6 -50.2-151	50/37	151.6	6 82 55	42	54	4.75		92	226/404	140	242

DOUBLE-STAGE Breizer compressors

Capacity R404a / R507

R404a / R507

Model	Condensing T. (°C)	Q0 () / Pe ()										
		Cooling capacity Q0 (kW) / Power consumption Pe (kW)										
		(°C)										
		Evaporation temperature (°C)										
		-25	-30	-35	-40	-45	-50	-55	-60	-65	-70	
4	12-42	30	19.48	16.82	14.27	11.85	9.65	7.68	5.98	4.57	3.41	2.49
		35	19.25	16.56	13.99	11.59	9.43	7.51	5.87	4.48	3.34	2.42
		40	18.91	16.22	13.68	11.33	9.22	7.36	5.76	4.40	3.25	
		45	18.51	15.85	13.36	11.08	9.03	7.23	5.66	4.29		
		50	18.06	15.47	13.05	10.85	8.86	7.10	5.54			
6	20-73	30	31.88	27.44	23.29	19.43	15.90	12.75	10.02	7.69	5.77	4.23
		35	31.28	26.94	22.84	19.02	15.55	12.47	9.19	7.56	5.67	4.14
		40	30.59	26.34	22.34	18.60	15.22	12.23	9.64	7.42	5.54	
		45	29.89	25.74	21.84	18.19	14.91	12.00	9.47	7.26		
		50	29.34	25.19	21.34	17.80	14.62	11.79	9.28			
6	25-84	30	36.18	31.28	26.59	22.24	18.21	14.61	11.47	8.83	6.63	4.87
		35	35.58	30.69	26.09	21.74	17.80	14.29	11.24	8.66	6.51	4.76
		40	34.88	30.09	25.49	21.29	17.41	13.99	11.04	8.50	6.35	
		45	34.08	29.39	24.94	20.79	17.05	13.73	10.84	8.31		
		50	33.43	28.74	24.34	20.34	16.71	13.48	10.62			
6	30-101	30	43.38	37.38	31.73	26.49	21.69	17.41	13.68	10.54	7.92	5.80
		35	42.48	36.58	31.04	25.89	21.19	17.02	13.41	10.34	7.78	5.68
		40	41.48	35.68	30.29	25.29	20.69	16.67	13.16	10.15	7.59	
		45	40.43	34.78	29.54	24.69	20.29	16.35	12.92	9.92		
		50	39.48	33.89	28.84	24.09	19.86	16.05	12.64			
		55	38.78	33.23	28.19	23.59	19.48	15.73				

Q0 (kW) = Capacity (kW)

Pe (kW) = Power consumption (kW)

Capacity at 50Hz, suction gas temperature 20°C, subcooling = 0K

$$Q_0 () = ()$$

$$Pe () = ()$$

50 , 20°C, = 0

Screw Breizer compressors

Capacity R404a / R507

R404a / R507

Q0 (kW) = Capacity (kW)

Pe (kW) = Power consumption (kW)

Capacity at 50Hz, suction gas superheat 10K, subcooling = 0K

For low-temperature compressors - with an economizer, the temperature diff. in the economizer
Tcu - Tms = 5K

$$Q_0 () = ()$$

$$Pe () = ()$$

50 , 10 , = 0

Tcu - Tms = 5K

Model	Condensing T. (°C)	Q_0 () / P_e ()													
		Cooling capacity Q_0 (kW) / Power consumption P_e (kW)													
		(°C)													
		Evaporation temperature (°C)													
			7.5	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45	
20-84	30	Q_0						58.70	49.45	41.25	34.00	27.65	22.05	17.22	
		P_e						22.10	21.50	20.90	20.20	19.46	18.63	17.70	
	40	Q_0						55.60	46.70	38.75	31.75	25.55	20.10	15.33	
		P_e						27.90	27.10	26.30	25.30	24.20	23.00	21.50	
	50	Q_0									35.20	28.40	22.35	17.02	12.33
		P_e									32.00	30.70	29.20	28.10	26.00
30-84	30	Q_0	103.90	95.00	79.10	65.40	53.70	43.60	35.05						
		P_e	19.92	19.58	18.94	18.35	17.81	17.32	16.88						
	40	Q_0	89.40	81.60	67.70	55.70	45.40	36.65	29.20						
		P_e	23.50	23.20	22.50	22.00	21.50	21.00	20.60						
	50	Q_0	74.00	67.40	55.40	45.15	36.40	29.00	22.75						
		P_e	28.40	28.10	27.50	27.00	26.40	25.90	25.30						
25-100	30	Q_0						68.50	57.70	48.20	39.80	32.35	25.85	20.20	
		P_e						25.30	24.50	23.80	22.90	22.00	21.10	20.00	
	40	Q_0						64.80	54.50	45.35	37.20	30.05	23.75	18.26	
		P_e						31.70	30.80	29.80	28.70	27.50	26.10	24.50	
	50	Q_0									43.40	34.85	27.35	20.50	15.11
		P_e									39.70	37.20	34.70	32.10	29.90
35-100	30	Q_0	124.10	113.60	94.70	78.40	64.40	52.40	42.15						
		P_e	23.50	23.10	22.40	21.70	21.10	20.50	20.00						
	40	Q_0	106.90	97.60	81.10	66.80	54.60	44.20	35.40						
		P_e	27.80	27.50	26.80	26.20	25.60	25.10	24.60						
	50	Q_0	88.90	81.00	66.80	54.70	44.30	35.45	28.00						
		P_e	33.80	33.50	32.90	32.30	31.70	31.30	30.80						
30-118	30	Q_0						78.20	60.00	55.20	45.60	37.15	29.80	23.40	
		P_e						28.60	27.60	26.70	25.70	24.60	23.50	22.30	
	40	Q_0						73.90	62.40	52.10	42.95	34.90	27.85	21.70	
		P_e						36.00	34.90	33.70	32.40	31.00	29.50	28.00	
	50	Q_0									47.70	39.15	31.55	24.80	18.93
		P_e									41.20	39.60	37.90	37.20	35.10
40-118	30	Q_0	146.70	134.40	112.20	93.00	76.40	62.30	50.20						
		P_e	27.00	26.60	25.80	25.00	24.30	23.60	23.00						
	40	Q_0	127.30	116.40	96.70	79.70	65.10	52.70	42.05						
		P_e	32.20	31.80	31.00	30.30	29.60	28.90	28.30						
	50	Q_0	106.10	96.60	79.70	65.10	52.70	42.05	33.05						
		P_e	39.10	38.70	38.00	37.20	36.50	35.80	35.20						
40-140	30	Q_0						94.40	79.60	66.30	54.70	44.40	35.35	27.50	
		P_e						32.20	31.10	30.00	28.80	27.70	26.40	25.10	
	40	Q_0						89.10	75.00	62.50	51.50	41.75	33.25	25.85	
		P_e						39.90	38.70	37.50	36.10	34.70	33.20	31.50	
	50	Q_0									56.90	46.70	37.70	29.80	22.90
		P_e									45.30	44.00	42.50	42.00	39.90
50-140	30	Q_0	181.80	166.30	138.60	114.70	94.10	76.50	61.50						
		P_e	29.40	29.00	28.40	28.00	27.70	27.40	27.00						
	40	Q_0	155.80	142.30	118.20	97.40	79.50	64.30	51.50						
		P_e	35.60	35.40	35.00	34.60	34.20	33.80	33.30						
	50	Q_0	128.20	116.80	96.30	78.70	63.70	51.00	40.30						
		P_e	43.30	43.20	42.90	42.40	41.90	41.40	40.90						
50-165	30	Q_0						108.70	91.60	76.50	63.20	51.60	41.40	32.60	
		P_e						39.60	38.10	36.50	34.90	33.20	31.50	29.60	
	40	Q_0						101.20	85.40	71.50	59.10	48.25	38.75	30.50	
		P_e						48.70	46.80	44.90	42.90	40.90	38.80	36.80	
	50	Q_0									64.30	53.10	43.20	34.40	26.70
		P_e									53.50	52.20	51.00	48.70	46.60
60-165	30	Q_0	216.00	197.80	165.10	136.80	112.50	91.60	73.80						
		P_e	38.90	38.30	37.20	36.10	35.10	34.20	33.40						
	40	Q_0	186.80	170.80	141.90	117.00	95.70	77.30	61.80						
		P_e	46.30	45.70	44.70	43.60	42.70	41.70	40.70						
	50	Q_0	154.30	140.60	115.90	94.70	76.50	61.00	47.90						
		P_e	55.80	55.30	54.30	53.20	52.20	51.20	50.10						

Model	Condensing T. (°C)	Q ₀ () / P _e ()												
		Cooling capacity Q ₀ (kW) / Power consumption P _e (kW)												
		(°C)												
		Evaporation temperature (°C)												
		7.5	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45	
60-192	30	Q ₀						136.00	113.80	94.40	77.30	62.50	49.55	38.30
		P _e						47.00	44.70	43.00	41.70	40.50	39.20	37.50
	40	Q ₀						124.60	104.40	86.70	71.10	57.50	45.60	35.30
		P _e						56.90	55.10	53.60	52.20	50.90	49.40	47.50
	50	Q ₀								76.60	62.90	50.80	40.15	30.85
		P _e								64.50	63.80	63.70	61.90	60.20
70-192	30	Q ₀	266.10	243.40	202.80	167.60	137.50	111.60	89.70					
		P _e	40.90	40.80	40.50	40.00	39.50	39.00	38.70					
	40	Q ₀	228.20	208.30	172.70	142.10	115.90	93.50	74.60					
		P _e	51.40	51.40	51.20	50.90	50.50	50.00	49.70					
	50	Q ₀	186.80	169.90	139.80	114.00	91.90	73.20	57.50					
		P _e	65.90	65.10	65.20	65.10	64.80	64.20	63.70					
70-220	30	Q ₀						151.80	127.50	106.60	87.40	71.00	56.70	44.25
		P _e						50.70	48.70	46.90	45.10	43.30	41.50	39.60
	40	Q ₀						140.80	118.20	98.50	81.10	65.90	52.70	41.20
		P _e						61.70	59.80	57.80	55.80	53.70	51.60	49.30
	50	Q ₀							105.80	88.00	72.40	58.70	46.65	36.15
		P _e							74.30	72.10	69.90	67.50	64.90	62.00
80-220	30	Q ₀	302.00	276.40	230.50	190.70	156.60	127.30	102.40					
		P _e	48.00	47.40	46.50	45.90	45.40	44.90	44.30					
	40	Q ₀	259.10	236.70	196.60	162.00	132.40	107.20	85.80					
		P _e	58.70	58.30	57.70	57.10	56.60	55.90	55.20					
	50	Q ₀	213.50	194.50	160.40	131.20	106.30	85.10	67.30					
		P _e	72.30	72.20	71.80	71.20	70.60	69.80	69.00					
75-250	30	Q ₀						160.10	134.50	112.10	92.50	75.50	60.70	47.85
		P _e						57.00	54.60	52.30	50.00	47.60	45.10	42.60
	40	Q ₀						147.10	123.80	103.30	85.50	69.80	56.20	44.40
		P _e						69.30	66.50	63.70	60.90	58.10	55.30	52.60
	50	Q ₀						130.30	109.80	91.70	75.80	61.80	49.45	38.60
		P _e						85.20	82.00	78.70	75.30	72.10	69.10	66.50
90-250	30	Q ₀	326.90	299.40	250.00	207.30	170.40	138.90	111.90					
		P _e	57.10	56.30	54.60	53.00	51.40	50.00	48.80					
	40	Q ₀	283.00	258.70	215.10	177.40	145.00	117.30	93.70					
		P _e	68.00	67.20	65.50	63.90	62.40	61.00	59.80					
	50	Q ₀	234.00	213.20	175.90	143.70	116.20	92.70	72.90					
		P _e	81.80	81.00	79.40	77.90	76.40	75.00	73.60					
125-410	30	Q ₀						267.40	225.20	188.30	156.10	128.10	103.80	82.90
		P _e						92.80	87.30	82.10	77.50	73.40	70.00	67.40
	40	Q ₀						244.60	205.70	171.60	141.70	115.70	93.00	73.30
		P _e						108.00	102.20	97.10	82.60	88.50	84.90	81.60
	50	Q ₀						216.00	181.00	150.20	123.10	99.30	78.40	60.00
		P _e						128.50	122.50	117.20	112.20	107.30	102.30	96.90
140-410	30	Q ₀	527.10	483.00	403.80	335.40	276.50	226.10	183.20					
		P _e	89.40	88.10	85.60	83.10	80.80	78.80	77.20					
	40	Q ₀	457.70	418.50	348.20	287.60	235.60	191.30	153.70					
		P _e	106.60	105.30	102.80	100.40	98.20	96.40	94.90					
	50	Q ₀	381.90	348.00	287.50	235.50	191.10	153.40	121.60					
		P _e	129.10	127.90	125.60	123.50	121.60	120.00	118.80					
160-535	30	Q ₀						334.10	280.30	233.40	192.70	157.30	126.70	100.20
		P _e						110.70	105.70	101.40	97.70	94.00	90.40	86.40
	40	Q ₀						302.50	254.00	211.50	174.40	142.00	113.80	89.20
		P _e						134.20	129.60	125.40	121.10	116.60	111.60	106.10
	50	Q ₀						265.80	223.00	185.40	152.10	122.70	96.60	73.40
		P _e						169.90	165.00	159.60	153.50	146.60	138.90	130.20
180-535	30	Q ₀	653.80	598.80	500.00	414.60	314.80	277.80	223.80					
		P _e	114.20	112.60	109.20	106.00	102.80	100.00	97.60					
	40	Q ₀	566.00	517.40	430.20	354.80	290.00	234.60	187.40					
		P _e	136.00	134.40	131.00	127.80	124.80	122.00	119.60					
	50	Q ₀	468.00	426.40	351.80	287.60	232.40	185.40	145.80					
		P _e	163.60	162.00	158.80	155.80	152.80	150.00	147.20					

Piston compressors

Analog table

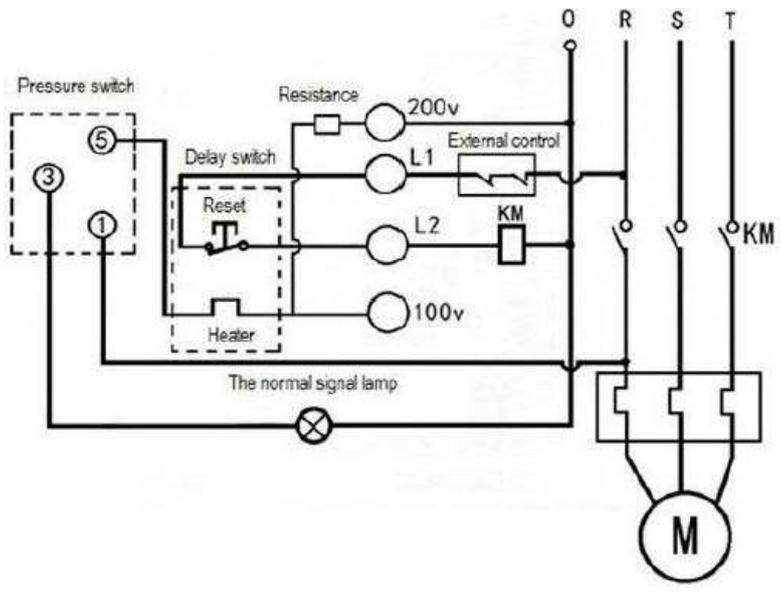
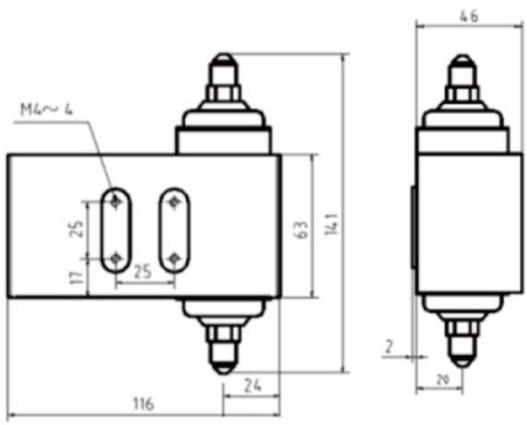
BREIZER		Q, -10/45	1		2		3		4		5		6		7		
	m / h		Model	m / h	Model	Model	Model	m / h	Model	m / h	Model	m / h	Model	m / h	Model	m / h	
4	-3.2-18	18.1	8.63	RFC4D-3.2	18.1	4FC-3.2	4FES-3	H390CS	19.53	Q4-20.1Y	19.77	SP2L030E	17.5	HGX34e/215-4	18.8	DLL-40X	18.2
4	-5.2-18	18.1	8.68	RFC4G-5.2	18.1	4FC-5.2	4FES-5	403	19.98	Q5-21.1Y	21.8	SP2H050E	17.5	HGX34e/215-4S	18.8	D2DD-50X	19.3
4	-4.2-22	22.7	10.70	RFC4D-4.2	22.7	4EC-4.2	4EES-4	403 S	22.83	Q4-24.1Y	23.6	SP2L040E	21	HGX34e/255-4	22.1	D2SA-55X	22.4
4	-6.2-22	22.7	10.95	RFC4G-6.2	22.7	4EC-6.2	4EES-6	503	22.83	Q5-24.1Y	23.6	SP2H060E	21	HGX34e/255-4S	22.1	D2DL-75X	23.7
4	-5.2-27	26.8	13.12	RFC4D-5.2	26.8	4DC-5.2	4DES-5	505 S	27.33	Q5-28.1Y	28.02	SP2L050E	24.5	HGX34e/315-4	27.3	D2SC-65X	26.7
4	-7.2-27	26.8	12.98	RFC4G-7.2	26.8	4DC-7.2	4DES-7	705	27.33	Q7-28.1Y	28.05	SP2H080E	24.5	HGX34e/315-4S	27.3	D2DD-75X	28
4	-6.2-32	32.5	15.83	RFC4D-6.2	32.5	4CC-6.2	4CES-6	705 S	31.88	Q5-33.1Y	32.66	SP2L060E	28	HGX34e/380-4	33.1	D3SA-75X	32.2
4	-9.2-32	32.5	15.86	RFC4G-9.2	32.5	4CC-9.2	4CES-9	755	31.88	S7-33.1Y	32.8	SP2H090E	28	HGX34e/380-4S	33.1	D3DA-75X	32.2
4	-6.2-35	34.7	16.82			4VCS-6.2		H751CS	38.06	S5-36.1Y	35.86						
4	-10.2-35	34.7	16.82			4VCS-10.2		H801CC	38.06	Q7-36.1Y	35.86						
4	-8.2-41	41.3	20.60	RFC4D-8.2	41.3	4TCS-8.2	4TES-9	851 S	42.81	S8-42Y	41.32	SP4LF080E	42	HGX44e/475-4	41.3	D3SC-100X	38
4	-12.2-41	41.3	20.40	RFC4G-12.2	41.3	4TCS-12.2	4TES-12	1003	43.73	S12-42Y	41.32	SP4HF120E	42	HGX44e/475-4S	41.3	D3DC-100X	38
4	-10.2-48	48.5	24.00	RFC4D-10.2	48.5	4PCS-10.2	4PES-12	1001 S	48.82			SP4LF100E	49	HGX44e/565-4	49.2	D3SS-150X	49.9
4	-15.2-48	48.5	24.50	RFC4G-15.2	48.5	4PCS-15.2	4PES-15	1501	48.82	S15-52Y	51.5	SP4HF150E	49	HGX44e/565-4S	49.2	D3DS-150X	49.9
4	-12.2-56	56.2	27.70	RFC4D-12.2	56.2	4NCS-12.2	4NES-14	1501CS	56.87	S15-56Y	56	SP4LF120E	56	HGX44e/665-4	57.7	D4SA-200X	56
4	-20.2-56	56.2	28.30	RFC4G-20.2	56.2	4NCS-20.2	4NES-20	2001CC	56.87	S20-56Y	56	SP4HF200E	56	HGX44e/665-4S	57.7	D4DA-20X	56
4	-15.2-74	73.6	37.50	RFC4D-15.2	73.6	4H-15.2	4HE-18	2000CS	75.83	V15-71Y	70.77	SP4L180E	75	HGX56e/850-4	73.8	D4DL-150X	70.8
4	-25.2-74	73.6	37.10	RFC4G-25.2	73.6	4H-25.2	4HE-25	2500CC	75.83	V25-71Y	70.77	SP4H250E	75	HGX56e/850-4S	73.8	4ML-15X	71.4
4	-20.2-84	84.5	43.10	RFC4D-20.2	84.5	4G-20.2	4GE-23	2500 S	85.01			SP4L250E	86.1	HGX56e/995-4	86.4	D4DH-250X	70.8
4	-30.2-84	84.5	43.00	RFC4G-30.2	84.5	4G-30.2	4GE-30	3000	85.01	V30-84Y	83.81	SP4H300E	76.1	HGX56e/995-4S	86.4	4MH-25X	71.4
4	25.2-101	101.1	53.30			6J-22.2	4FE-28	H2900CS	102.35	V 25 93Y	93.05						
6	-25.2-110	110.5	56.10	RFC6D-25.2	110.5	6H-25.2	6HE-28	3000 S	113.74	Z25-106Y	106.16	SP6L270E	112.5	HGX66e/1340-4	116.5	D6DL-270X	106
6	-35.2-110	110.5	55.60	RFC6G-35.2	110.5	6H-35.2	6HE-35	H3500CC	113.74	Z35-106Y	106.16	SP6H370E	112.5	HGX66e/1340-4S	116.5	4MU-25X	99.5
6	-30.2-127	126.8	63.50	RFC6D-30.2	126.8	6G-30.2	6GE-34	H4000CS	138.77	Z30-126Y	125.68	SP6L300E	129.1	HGX66e/1540-4	133.7	D6DT-320X	127
6	-40.2-127	126.8	64.30	RFC6G-40.2	126.8	6G-40.2	6GE-40	4000	127.52	Z40-126Y	125.72	SP6H400E	129.1	HGX66e/1540-4S	133.7	6MM-30X	120.5
6	-40.2-151	151.6	75.70	RFC6D-40.2	151.6	6F-40.2	6FE-44	H4500CS	153.52	Z40-154Y	154.38	SP6L400E	154.4	HGX66e/1750-4	152.2	6MU-40X	153
6	-50.2-151	151.6	76.30	RFC6G-50.2	151.6	6F-50.2	6FE-50	5000	153.52	Z50-154Y	154.38	SP6H500E	154.4	HGX66e/1750-4S	152.2	6MK-50X	153

Applications

Available options

Differential oil pressure relay

The differential oil pressure switch is designed to protect refrigeration compressors with oil pumps from low oil pressure in the compressor's oil system. The switch monitors the decrease in the oil pressure differential between the outlet and inlet of the oil pump, and shuts down the compressor if the differential oil pressure becomes abnormally low.

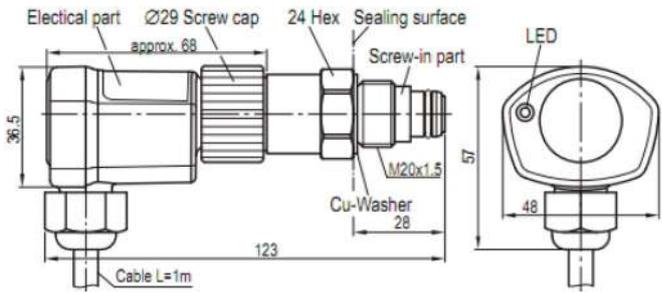


Connection

Supply voltage 220 - 240 V.
 Contact 200V is connected to neutral.
 Contact L1 is connected to the supply voltage (phase R) in series with the external controller contact.
 Contact L2 is connected to the compressor contactor coil.
 Contact 1 is connected to the supply voltage (phase R), after the compressor contactor contact.
 A signal lamp is connected between contact 3 and the neutral wire.

	200	220-240
	L1	
(R)	
	L2	
(1	
	R)	
		3

Differential Oil Pressure Sensor



The differential oil pressure sensor

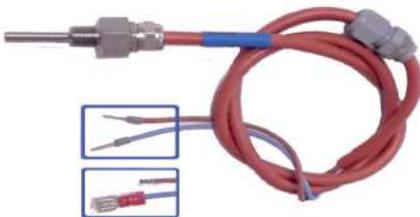
(analogous to Delta-P)
 is designed to monitor the differential oil pressure in oil pumps of refrigeration compressors. For this purpose, a screw-in part is used, mounted directly into the pump body, to measure the differential pressure. Additional pipeline connections are not required. The evaluation unit is secured with a clamping ring in the screw part and can be removed without opening the oil circuit. After applying the supply voltage, the relay operates with a 3-second delay. The absence of differential pressure leads to the switch being blocked after 90 seconds. The built-in LED indicates the operating state.

(Delta-P)

3

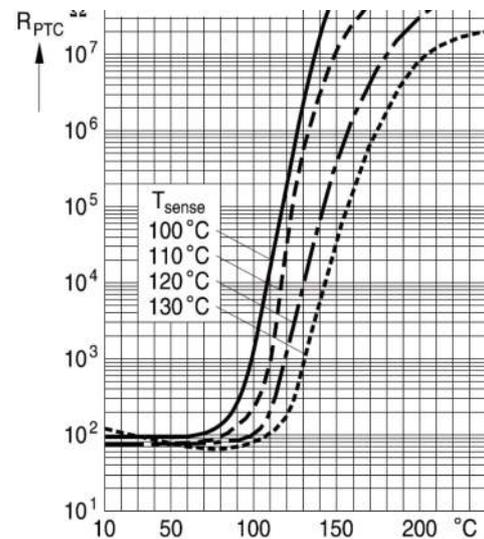
90

PTC screw in thermal sensor



PTC screw in thermal sensor

PTC sensors are used to protect the compressor from high discharge temperatures. Can be connected to the compressor protection unit (INT69) in series with the compressor motor winding thermistors. The shape's design makes it possible to achieve short thermal response times and facilitates the installation.

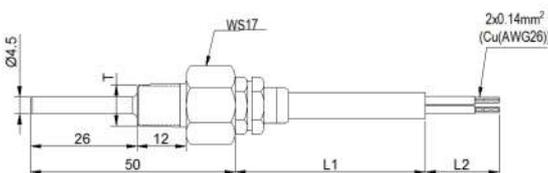


PTC

PTC

(INT69)

Thread NPTF 1/8"
 Max. operation voltage 30V
 Initial resistance R25 ≤100
 Resistance at a thermistor temperature of T_{sense} -5K ≤550
 Resistance at a thermistor temperature of T_{sense} +5K ≥1330
 Resistance at a thermistor temperature of T_{sense} +15K ≥4K



NPTF 1/8"

30
 R25 ≤100

T_{sense} -5 ≤550
 T_{sense} +5 ≥1330
 T_{sense} +15 ≥4

Capacity control in BREIZER compressors

Compressor capacity control significantly increases its service life by reducing the number of starts and stops. The efficiency of the entire unit increases, the output performance is brought into line with the current need. In BREIZER compressors, capacity control is carried out by closing the suction windows.

It is possible to carry out not only stepwise (disabling individual cylinders), but also infinite control. Single-stage compressors with 4 and 6 cylinders are used to install such a control system.

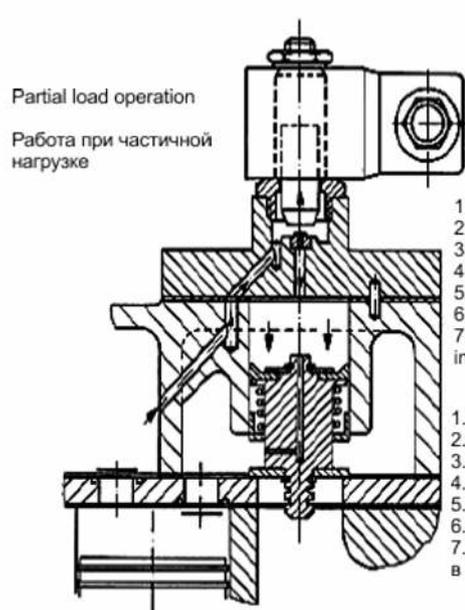
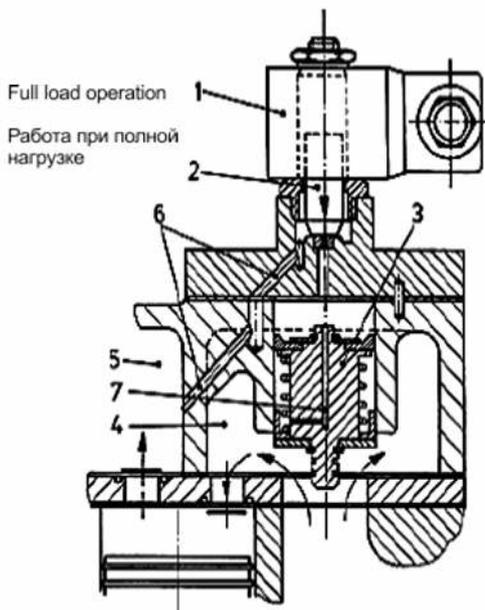
The control device can be built into the compressor or supplied as a separate kit as an option.

4 6



Covers with compressor capacity control device

At full load, all compressor cylinders are involved in operation. There is no voltage on the coil of valve 1. All suction windows in the cylinder are open. At partial load, the pistons in the cylinder block removed from the operation process move idle without compression. The coil is under voltage, the valve closes the suction windows.



1. Coil
 2. Rod (spring-loaded)
 3. Movable element of the regulator
 4. Suction cavity
 5. Discharge cavity
 6. Discharge pressure port
 7. Pressure compensation hole in the cylinders on the "suction" stroke
1. Катушка
 2. Шток (подпружиненный)
 3. Подвижный элемент регулятора
 4. Полость всасывания
 5. Полость нагнетания
 6. Порт давления нагнетания
 7. Отверстие компенсации давления в цилиндрах на такте "всасывание"

Additional fan for BREIZER compressors

In some operating modes, with a high thermal load, supplementary compressor cooling may be required (see application restrictions in the Breizer catalog). The simplest method is to use an additional fan that provides cooling of the compressor cylinder heads. This cooling method is universal. It provides uniform cooling, and its performance is easy to control. The fan is usually connected in parallel with the compressor. If the compressor is located in the air flow of the condenser fan (at least 3 m/s), the installation of an additional fan is not required.



Larger crankcase reservoir

When using Breizer compressors on marine transport, a special option is used - larger crankcase reservoir. Thanks to this option, the volume of oil in the crankcase increases, which allows the compressor to operate with normal internal oil circulation while tilted in roll and trim (together with the ship's deck) at significant angles.



SCADI compressor protection module

SCADI

The SCADI compressor protection module is a device for comprehensive compressor protection against motor winding temperature, maximum operating current, increased discharge temperature, low oil level, phase sequence failure and supply voltage phase break. Supplied as an option, instead of the standard protection module (INT69).

SCADI

L1 – L2 – ~110 – 240 , 50 / 60
 1 – 2 – ~240 , .5
 1 – 2- 3 –
 (200 – 0,1)
 TD (NTC 50K)
 OLS
 EXV
 S1 – S4 - DIP

L1 – L2 – power supply ~110 – 240V, 50 / 60Hz
 M1 – M2 – normal open contacts ~240V, max. 5A
 T1–T2-T3 – phase detector wire, connect to the compressor motor after after the contactor to phases T1–T2-T3
 AMP - current sensor(current transformer 200A – 0.1A)
 RTS - connection of the motor winding thermistors
 TD - discharge temperature sensor (NTC 50K)
 OLS - oil level switch
 EXV - EXV for liquid injection
 S1 – S4 - DIP switch

(INT69).



LED Code	Description
GR4 ----R0	Always Flash By 1Secs If Hardware OK G :Flash Slow : Compressor Stop; G :Flash Quick: Running Normally
● ○ ○ ○ ○ ○ ●	Discharge Temperature Sensor Fail(Open Or Short)
● ○ ○ ○ ○ ● ●	Over Discharge Temperature Trip
● ○ ○ ○ ○ ● ●	Over Discharge Temperature Trip And Lock
● ○ ○ ● ○ ○	Phase Missing Trip
● ○ ○ ● ○ ○	Phase Reverse Trip
● ○ ○ ● ○ ○	Phase Missing Trip And Lock
● ○ ○ ● ○ ○	Phase Reverse Trip Lock
● ○ ○ ● ○ ○	Motor PTC Sensor Fail(Open Or Short)
● ○ ○ ● ○ ○	Motor Temperature Static Trip
● ○ ○ ● ○ ○	Motor Temperature Dynamic Trip
● ○ ○ ● ○ ○	Motor Temperature Trip And Lock
● ○ ○ ● ○ ○	Lack Of Oil Trip
● ○ ○ ● ○ ○	Lack Of Oil Trip And Lock
● ○ ○ ● ○ ○	Over Current Trip
● ○ ○ ● ○ ○	Locked Rotor Trip
● ○ ○ ● ○ ○	Over Current Trip And Lock
● ○ ○ ● ○ ○	Locked Rotor Trip And Lock
● ○ ○ ● ○ ○	Over Liquid Back Alarm
● ○ ○ ● ○ ○	Short Cycling Protection

LED Код	Описание
G ----R0	G: Всегда мигает 1 с если блок исправен R5: Медленно мигает: Компрессор остановлен; R5: Быстро мигает: Работает нормально
● ○ ○ ○ ○ ●	Неисправен датчик температуры нагнетания (Обрыв или КЗ)
● ○ ○ ○ ○ ●	Превышение температуры нагнетания
● ○ ○ ○ ○ ●	Превышение температуры нагнетания и остановка компрессора
● ○ ○ ● ○ ○	Потеря фазы
● ○ ○ ● ○ ○	Перекас фаз
● ○ ○ ● ○ ○	Потеря фазы и остановка компрессора
● ○ ○ ● ○ ○	Перекас фаз и остановка компрессора
● ○ ○ ● ○ ○	Неисправность датчика PTC двигателя (Обрыв или КЗ)
● ○ ○ ● ○ ○	Высокая температура двигателя
● ○ ○ ● ○ ○	Высокая скорость роста температуры двигателя
● ○ ○ ● ○ ○	Высокая температура двигателя и остановка компрессора
● ○ ○ ● ○ ○	Отсутствие масла
● ○ ○ ● ○ ○	Отсутствие масла и остановка компрессора
● ○ ○ ● ○ ○	Перегрузка по току
● ○ ○ ● ○ ○	Блокировка ротора
● ○ ○ ● ○ ○	Перегрузка по току и отключение компрессора
● ○ ○ ● ○ ○	Блокировка ротора и отключение компрессора
● ○ ○ ● ○ ○	Авария по возврату избытка жидкости
● ○ ○ ● ○ ○	Защита от коротких циклов

DIP Switch Configuration

SWITCH CONFIG							
ON		ON		ON		ON	
●	OLS Disabled	●	Protector Mode	●	Td Disable	●	Phase Detect Disable
○	OLS Enabled	○	Controller Mode	○	Td Enable	○	Phase Detect Enable
OFF		OFF		OFF		OFF	
1		2		3		4	

Конфигурация DIP-переключателей

НАСТРОЙКА ПЕРЕКЛЮЧАТЕЛЕЙ							
ON		ON		ON		ON	
○	OLS Отключено	○	Режим защиты	○	Td Отключено	○	Обнаружение фаз Отключено
●	OLS Включено	●	Режим управления	●	Td Включено	●	Обнаружение фаз Включено
OFF		OFF		OFF		OFF	
1		2		3		4	

BREIZER compressor's spare parts



Piston (complete with piston rings, retaining ring, pin, washer)

() , ,)



Connecting rod



Piston with connecting rod assembly (without piston rings)

()



Piston ring



Valve plate set (with valve discs)

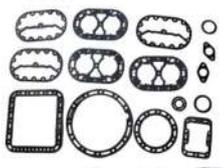
()



Cylinders cover



Cylinder cover with compressor capacity control device



Gasket set



Crankshaft



Oil pump



Bearing (bushing)

()



Relief valve



Oil filter



Suction gas filter
(with retaining ring with lugs)
for 4 -15.2-74 ~ 6 -50.2-151

()
(4 -15.2-74 ~ 6 -50.2-151)



Suction gas filter
for 4 -3.2-18 ~ 4 -9.2-32

(4 -3.2-18 ~ 4 -9.2-32)



Suction gas filter
for 4 -6.2-35 ~ 4 -20.2-56

(4 -6.2-35 ~ 4 -20.2-56)



Crankcase heater



Sight glass



Terminal plate

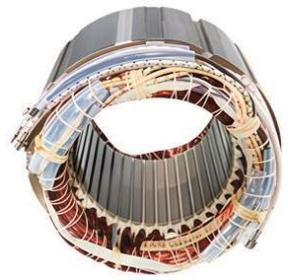


Terminal box



Compressor motor protection device
(installed in the junction box)

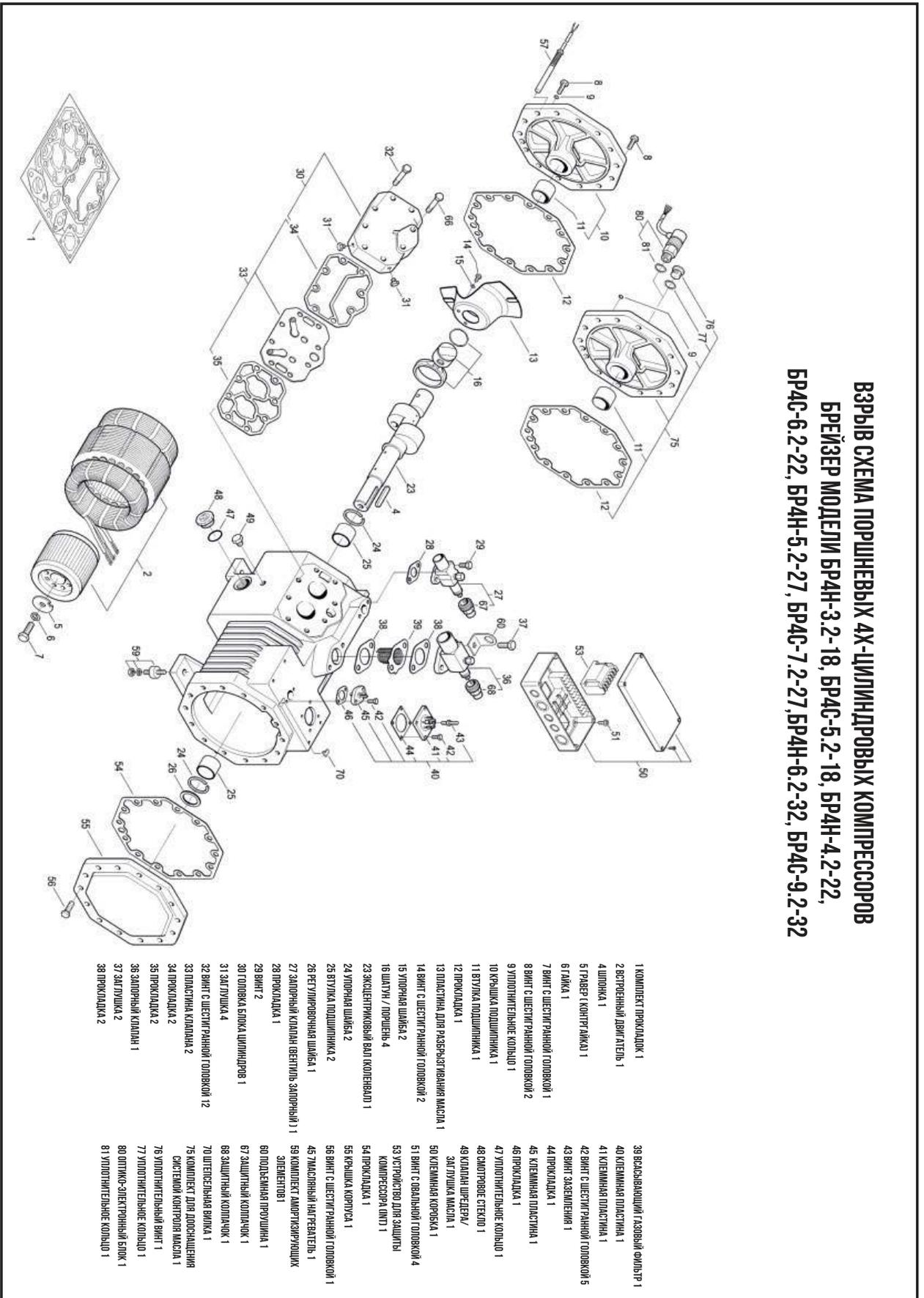
()



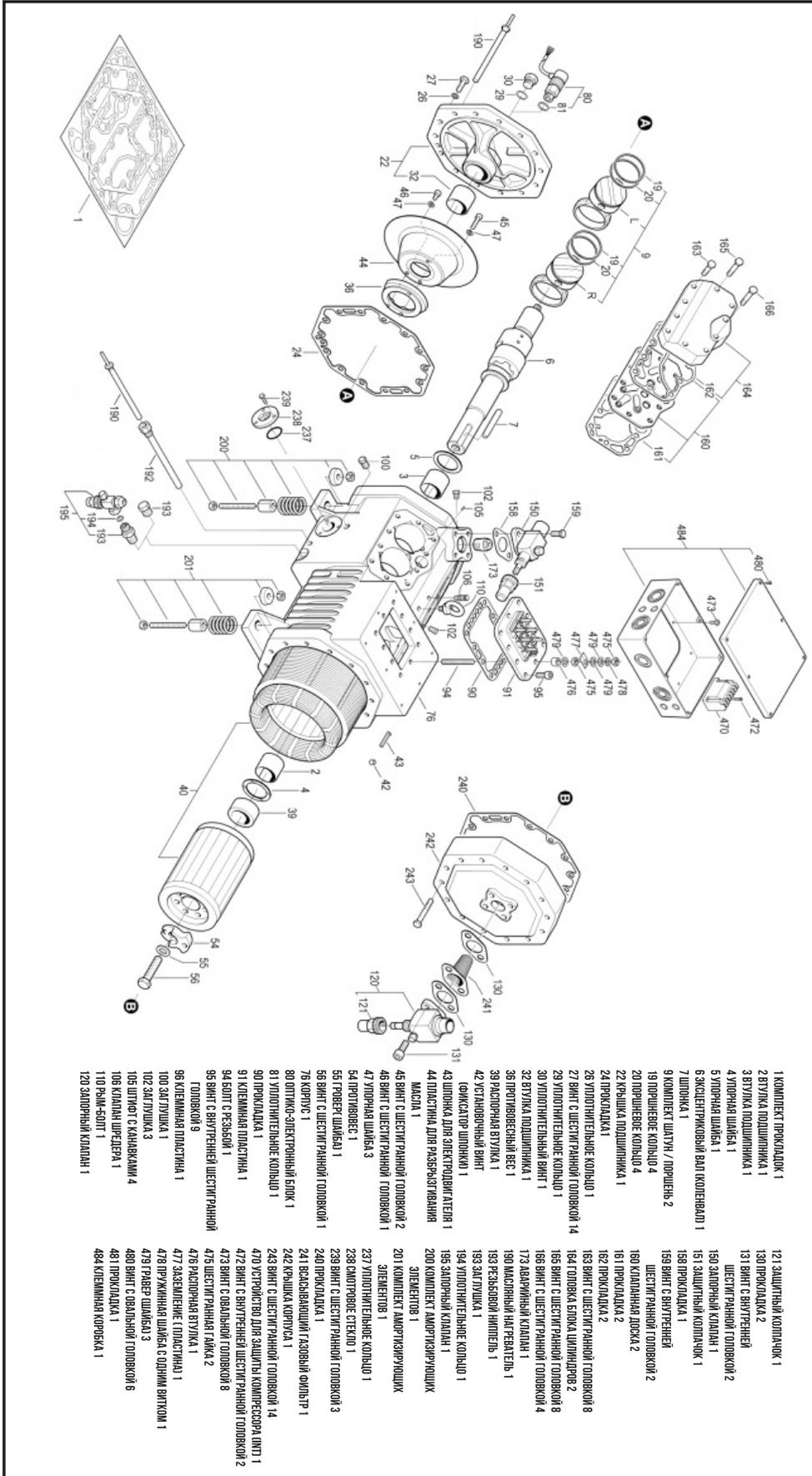
Electric motor (stator + rotor)
from 2.2 to 37 kW

(2.2 37 +)

Explosion diagrams

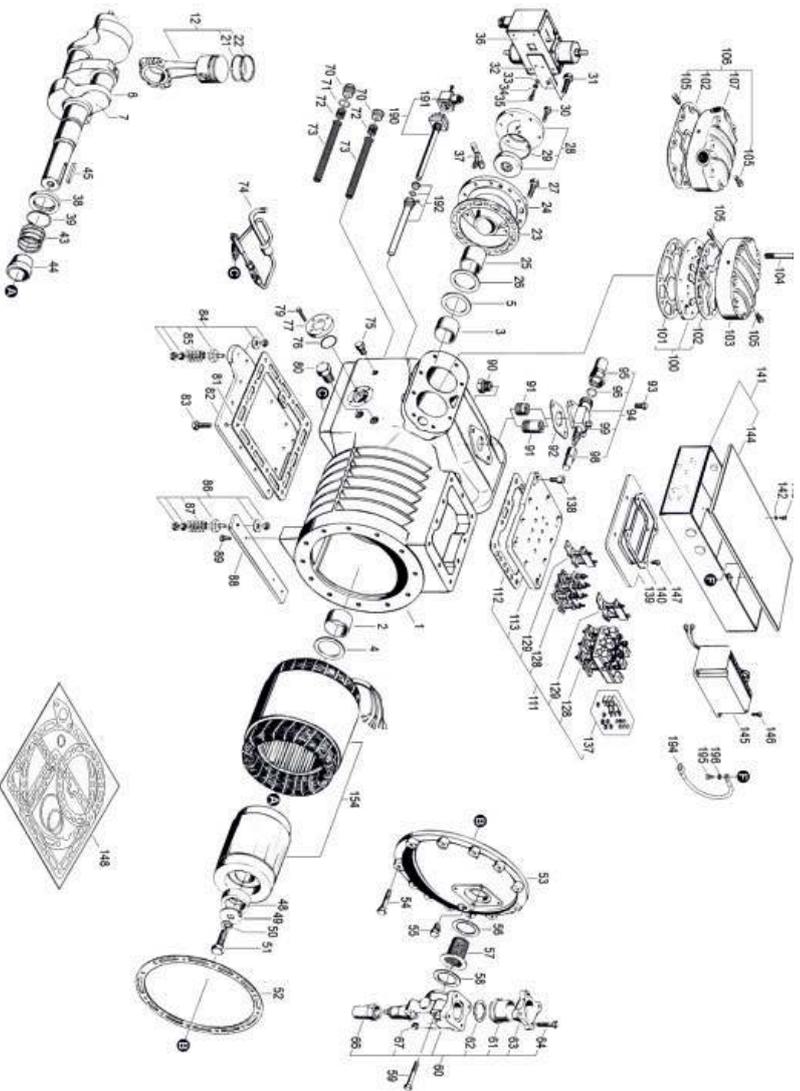


**ВЗРЫВ СХЕМА ПОРШНЕВЫХ 4Х-ЦИЛИНДРОВЫХ КОМПРЕССОРОВ БРЕЙЗЕР МОДЕЛИ
БРАН-6-2-35, БРАС-10-2-35, БРАН-8-2-41, БРАС-12-2-41, БРАН-10-2-48,
БРАС-15-2-48, БРАН-12-2-56, БРАС-20-2-56,**



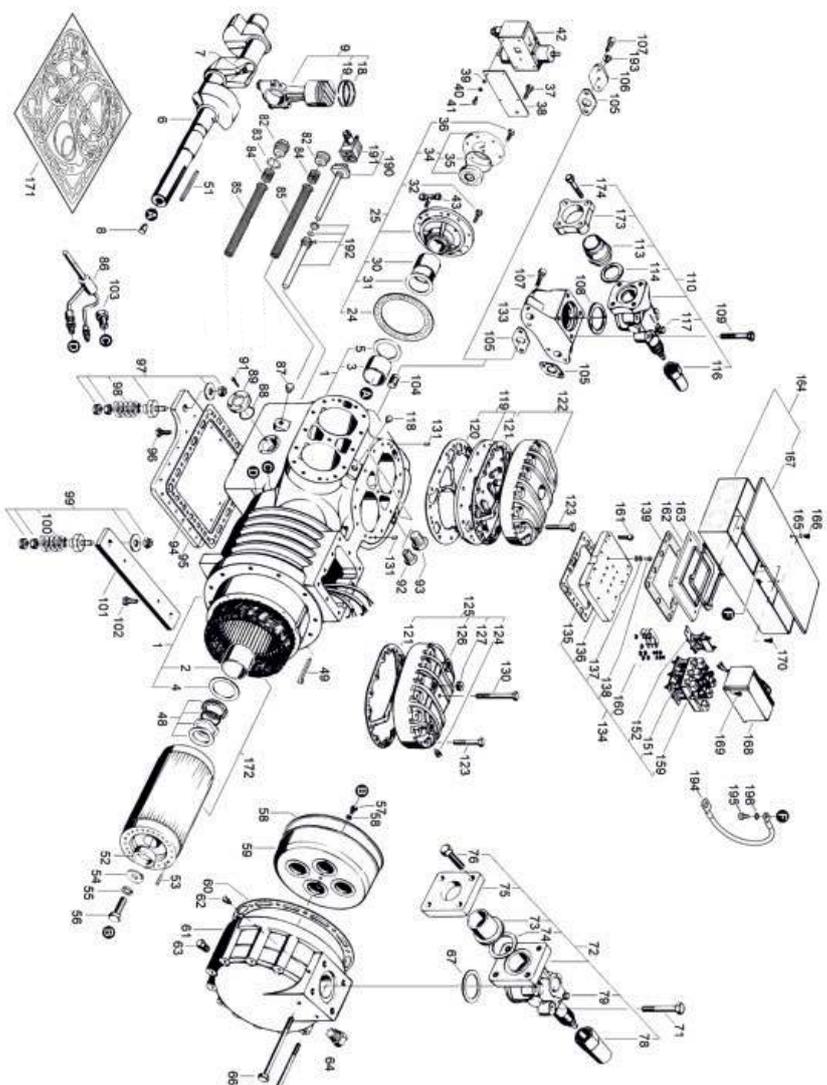
- 1 КОМПЛЕКТ ПРЯКОДАК 1
- 2 ВТУЛКА ПОДШИПНИКА 1
- 3 ВТУЛКА ПОДШИПНИКА 1
- 4 УПОРНАЯ ШАЙБА 1
- 5 УПОРНАЯ ШАЙБА 1
- 6 ЭКСПАНСИОННЫЙ ВОЛ КОЛЕВАЛО 1
- 7 ШПОНКА 1
- 9 КОМПЛЕКТ ШПТУН / ПОРШЕНЬ 2
- 19 ПОРШЕНОВОЕ КОЛЬЦО 4
- 20 ПОРШЕНОВОЕ КОЛЬЦО 4
- 22 РЫЦАШКА ПОДШИПНИКА 1
- 24 ПРЯКОДАК 1
- 26 УПОЛОНИТЕЛЬНЫЕ КОЛЬЦО 1
- 27 ВИНТ С ШЕСТИГРАННОЙ ГОЛОВКОЙ 14
- 29 УПОЛОНИТЕЛЬНЫЕ КОЛЬЦО 1
- 30 УПОЛОНИТЕЛЬНЫЙ ВИНТ 1
- 32 ВТУЛКА ПОДШИПНИКА 1
- 36 ПОРШЕНОВЫЙ ВЕС 1
- 39 РАБОЧАЯ ВТУЛКА 1
- 42 УСТАВОВОЧНЫЙ ВИНТ (ЮНКАТОР) ЦИЛИНДР 1
- 43 ШПОНКА ДЛЯ ЭЛЕКТРОДВИГАТЕЛЯ 1
- 44 ПОДСИЛКА ДЛЯ РАЗЪЕЗДЫВАНИЯ МАСЛА 1
- 45 ВИНТ С ШЕСТИГРАННОЙ ГОЛОВКОЙ 2
- 46 ВИНТ С ШЕСТИГРАННОЙ ГОЛОВКОЙ 1
- 47 УПОРНАЯ ШАЙБА 3
- 54 ПРЯКОДАК 1
- 55 ГРИБЕЦ ШАЙБА 1
- 56 ВИНТ С ШЕСТИГРАННОЙ ГОЛОВКОЙ 1
- 76 КОРПУС 1
- 80 ОПТИКО-ЭЛЕКТРОННЫЙ БЛОК 1
- 81 УПОЛОНИТЕЛЬНЫЕ КОЛЬЦО 1
- 90 ПРЯКОДАК 1
- 91 КЛЕПАННАЯ ПОДСИЛКА 1
- 94 БОЛТ С РЕЗЬБОЙ 1
- 95 ВИНТ С ВНУТРЕННЕЙ ШЕСТИГРАННОЙ ГОЛОВКОЙ 9
- 96 КЛЕПАННАЯ ПОДСИЛКА 1
- 100 ЗАГЛУШКА 1
- 102 ЗАГЛУШКА 3
- 105 ШПОНТ С КАНЬКАМИ 4
- 106 КЛАПАН ШЕРСЕРА 1
- 110 РЫМ-БОЛТ 1
- 120 ЗАПОРНЫЙ КЛАПАН 1
- 121 ЗАЩИТНЫЙ КОМПОНК 1
- 130 ПРЯКОДАК 2
- 131 ВИНТ С ВНУТРЕННЕЙ ШЕСТИГРАННОЙ ГОЛОВКОЙ 2
- 150 ЗАПОРНЫЙ КЛАПАН 1
- 151 ЗАЩИТНЫЙ КОМПОНК 1
- 158 ПРЯКОДАК 1
- 159 ВИНТ С ВНУТРЕННЕЙ ШЕСТИГРАННОЙ ГОЛОВКОЙ 2
- 160 КЛАПАННАЯ ДОСКА 2
- 161 ПРЯКОДАК 2
- 162 ПРЯКОДАК 2
- 163 ГОЛОВА БЛОКА ЦИЛИНДРОВ 2
- 165 ВИНТ С ШЕСТИГРАННОЙ ГОЛОВКОЙ 8
- 166 ВИНТ С ШЕСТИГРАННОЙ ГОЛОВКОЙ 4
- 173 ВЫЯРНЫЙ КЛАПАН 1
- 190 МАССЛОВАЯ НАПЕЛЬ 1
- 193 РЕЗЬБОВЫЙ НАПЕЛЬ 1
- 193 ЗАГЛУШКА 1
- 194 УПОЛОНИТЕЛЬНЫЕ КОЛЬЦО 1
- 195 ЗАПОРНЫЙ КЛАПАН 1
- 200 КОМПЛЕКТ АМОКРАТЯЩИХ ЭЛЕМЕНТОВ 1
- 201 КОМПЛЕКТ АМОКРАТЯЩИХ ЭЛЕМЕНТОВ 1
- 227 УПОЛОНИТЕЛЬНЫЕ КОЛЬЦО 1
- 228 СМАЗОЧНОЕ СТЕКЛО 1
- 229 ВИНТ С ШЕСТИГРАННОЙ ГОЛОВКОЙ 3
- 240 ПРЯКОДАК 1
- 241 ВЕСЬЯВЫШШИЙ ГАЗОВЫЙ ФИЛЬТР 1
- 242 УЧУШКА КОРПУСА 1
- 243 ВИНТ С ШЕСТИГРАННОЙ ГОЛОВКОЙ 14
- 470 УСТРОЙСТВО ДЛЯ ЗАЩИТЫ КОМПРЕССОРА (ПНТ) 1
- 472 ВИНТ С ВНУТРЕННЕЙ ШЕСТИГРАННОЙ ГОЛОВКОЙ 2
- 473 ВИНТ С ОВАЛЬНОЙ ГОЛОВКОЙ 8
- 475 ШЕСТИГРАННАЯ ГАЙКА 2
- 476 РАБОЧАЯ ВТУЛКА 1
- 477 ЗАСЛЕДИНИЕ СТОПСТАИИ 1
- 478 ПРУЖИНАЯ ШАЙБА С ОДИНА ВЯТКОМ 1
- 479 ГРИБЕЦ ШАЙБА 3
- 480 ВИНТ С ОВАЛЬНОЙ ГОЛОВКОЙ 6
- 481 ПРЯКОДАК 1
- 484 КЛЕПАННАЯ КОРПУСА 1

БРЯВЫЕ СХЕМА ПОРШНЕВЫХ 4X-ЦИЛИНДРОВЫХ КОМПРЕССОРОВ БРЕЙЗЕР МОДЕЛИ БР4Н-15.2-74, БРАС-25.2-74, БРАН-20.2-84, БРАС-30.2-84, БРАН25.2-101,



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| 1 корпус 1 | 56 винт с шестигранной головкой 1 | 96 уплотнительное кольцо 1 |
| 2 втулка подшипника 1 | 57 всасывающий газовый фильтр 1 | 98 защитный колпачок 1 |
| 3 втулка подшипника 1 | 58 прокладка 1 | 99 уплотнительная лямка 1 |
| 4 упорная шайба 1 | 59 винт с шестигранной головкой 4 | 100 пластина клинда 2 |
| 5 упорная шайба 1 | 60 запорный колпан 1 | 101 прокладка 2 |
| 6 конденсатный вал 1 | 61 втулка 1 | 102 прокладка 2 |
| 7 заглушка коленвала 3 | 62 прокладка 1 | 103 подкладка борта цилиндра 2 |
| 12 шатун / поршень 4 | 63 заглушка 1 | 104 винт с шестигранной головкой 18 |
| 21 поршневое кольцо 4 | 64 винт с шестигранной головкой 4 | 105 заглушка 4 |
| 22 поршневое кольцо 4 | 65 шатунный колпачок 1 | 106 подкладка борта цилиндра 2 |
| 23 прокладка 1 | 67 заглушка 1 | 111 клеммная пластина 1 |
| 24 крышка подшипника 1 | 70 уплотнительный винт 1 | 112 прокладка 1 |
| 25 втулка подшипника 1 | 71 шайба 1 | 113 клеммная пластина 1 |
| 26 упорная шайба 1 | 72 нажимная пружина 1 | 128 клеммная пластина 2 |
| 27 винт с шестигранной головкой 10 | 73 масляный фильтр 1 | 129 клемник |
| 28 масляный насос 1 | 74 система впуска масла 1 | 137 комплект соединительного моста 1 |
| 29 уплотнительное кольцо 1 | 75 заглушка 1 | 138 винт с шестигранной головкой 10 |
| 30 винт с шестигранной головкой 6 | 76 уплотнительное кольцо 1 | 139 центрирующая пластина 1 |
| 31 винт с внутренней шестигранной головкой 2 | 77 опорное стекло 1 | 140 прокладка 1 |
| 32 крепежная пластина 1 | 79 винт с шестигранной головкой 4 | 141 клеммная коробка 1 |
| 34 пружинная шайба с одним винтом 2 | 80 заглушка 2 | 142 винт с овальной головкой 1 |
| 37 клемма шверла 2 | 81 прокладка 1 | 143 винт с овальной головкой 6 |
| 38 упорное кольцо 1 | 82 нижняя пластина 1 | 144 крышка 1 |
| 39 уплотнительное кольцо 1 | 83 винт с шестигранной головкой 12 | 145 устройство для защиты компрессора от 1 |
| 43 нажимная пружина 1 | 84 комплект амортизаторов 1 | 146 винт с овальной головкой 2 |
| 44 распорная втулка 1 | 85 клеммная пружина 2 | 147 винт с овальной головкой 4 |
| 46 шпонка | 86 комплект амортизаторов 1 | 148 комплект прокладок 1 |
| 49 упорная шайба 1 | 87 нажимная пружина 2 | 154 электродостель 1 |
| 50 упорная шайба 1 | 88 крепежная пластина 1 | 190 масляный насос 1 |
| 51 винт с шестигранной головкой 1 | 89 винт с шестигранной головкой 2 | 191 электромеханический разъем 1 |
| 52 прокладка газовой камеры 1 | 90 заглушка масла 1 | 192 карт для вала 1 |
| 54 винт с шестигранной головкой 12 | 92 прокладка 1 | 195 винт с овальной головкой 1 |
| 55 проверт 1 | 93 винт с шестигранной головкой 2 | 196 гайка |
| | 94 запорный колпан 1 | |
| | 95 соединение трув 1 | |

**ВЗРЫВ СХЕМА ПОРШНЕВЫХ 6Х-ЦИЛИНДРОВЫХ КОМПРЕССОРОВ БРЕЙЗЕР
МОДЕЛИ БР6Н-25.2-110, БР6С-35.2-110, БР6Н-30.2-127, БР6С-40.2-127,
БР6Н-40.2-151, БР6С-50.2-151**



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|-------------------------------------|--|--|
| 1 корпус 1 | 65 винт с шестигранной головкой 10 | 117 заглушка 1 |
| 2 втулка подшипника 1 | 66 винт с шестигранной головкой 2 | 118 заглушка 4 |
| 3 втулка подшипника 1 | 67 прокладка 1 | 119 кожаная доска 3 |
| 4 упорная шайба 1 | 71 винт с шестигранной головкой 4 | 120 прокладка 3 |
| 5 упорная шайба 1 | 72 заборный клапан 1 | 121 прокладка 1 |
| 6 колецвал 1 | 73 втулка для пайки и сварки 1 | 122 головка блока цилиндров 3 |
| 7 заглушка 3 | 74 прокладка 1 | 123 винт с шестигранной головкой 45 |
| 9 шатун / поршень 6 | 75 втулочный фланец 1 | 125 головка блока цилиндров 3 |
| 10 шатун 6 | 76 винт с шестигранной головкой 4 | 126 головка блока цилиндров 3 |
| 18 поршневое кольцо 6 | 78 защитный колпачок 1 | 127 уплотнительный винт 3 |
| 19 поршневое кольцо 6 | 79 заглушка 1 | 131 шпилька направляющая 6 |
| 24 прокладка 1 | 82 уплотнительный винт 1 | 132 установочный винт 1 |
| 25 крышка подшипника 1 | 83 прокладка 1 | 133 пружинящий фланец 1 |
| 26 клапан регулирующий давления 1 | 84 нажимная пружина 1 | 134 клеммная пластина 1 |
| 30 втулка подшипника 1 | 86 масляный фильтр Р 1 | 135 прокладка 1 |
| 31 упорная шайба 1 | 86 система возврата масла 1 | 136 клеммная пластина 1 |
| 32 винт с шестигранной головкой 10 | 87 заглушка 1 | 138 сепаратор 1 |
| 34 крышка подшипника 1 | 88 уплотнительное кольцо 1 | 139 прокладка 1 |
| 35 уплотнительное кольцо 1 | 89 смолотворное стекло 1 | 140 изолирующая пластина 1 |
| 36 винт с шестигранной головкой 6 | 91 винт с шестигранной головкой 4 | 141 нажимная втулка 6 |
| 37 винт с шестигранной головкой 2 | 92 шестеренная вилка 1 | 142 уплотнительное кольцо 3 |
| 38 стержневая пластина 1 | 93 стержневая вилка 1 | 151 клеммник 1 |
| 39 гравлер 2 | 94 прокладка 1 | 152 клемник 1 |
| 40 пружинная шайба с одним витком 2 | 95 нижняя пластина 1 | 159 изолирующая пластина 1 |
| 41 винт с овальной головкой 2 | 96 винт с шестигранной головкой 23 | 161 винт с шестигранной головкой 10 |
| 42 втулка давления масла 1 | 97 комплект амортизирующих элементов 1 | 162 центрирующая пластина 1 |
| 43 кожаная шпатель 2 | 98 нажимная пружина 2 | 163 прокладка 1 |
| 44 упорное кольцо 1 | 99 комплект амортизирующих элементов 1 | 164 клеммная коробка 1 |
| 45 уплотнительное кольцо 1 | 100 нажимная пружина 2 | 166 винт с овальной головкой 6 |
| 46 пружинная шайба 1 | 101 пластина 1 | 167 обложка 1 |
| 47 упорное кольцо 1 | 102 винт с шестигранной головкой 2 | 168 устройство для защиты компрессора от |
| 48 уплотнение выала 1 | 103 газовой уравнивательный клапан 2 | 169 винт с овальной головкой 2 |
| 49 шпилька 1 | 104 кожаная регулировочная пластина 2 | 170 винт с овальной головкой 4 |
| 53 шпилька 1 | 105 прокладка 2 | 171 комплект прокладок 1 |
| 54 упорная шайба 1 | 107 винт с шестигранной головкой 4 | 174 винт с сальниковой головкой 1 |
| 55 упорная шайба 1 | 108 прокладка 1 | 175 прокладка 1 |
| 56 винт с шестигранной головкой 1 | 109 винт с шестигранной головкой 4 | 176 прокладка 1 |
| 58 стопорное кольцо с выступами | 110 заборный клапан 1 | 190 масляный материал ГВН 1 |
| 59 всасывающий газовой фильтр Р 1 | 113 втулка для пайки и сварки 1 | 192 картон для тена 1 |
| 60 прокладка 1 | 114 прокладка 1 | |
| 61 втулка корпуса 1 | 116 защитный колпачок 1 | |
| 63 заглушка 0 | | |
| 64 кожаная шпатель, заглушка 0 | | |



