

# Model: ZR28K3-PFJ

## Data

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**Type:** Hermetic piston compressors

**Producer:** Copeland

**Series:** ZR

## Model: ZR28K3-PFJ

### Technical data

Nominal motor power [HP]:	2,5
Displacement [m <sup>3</sup> /h]:	6,8
Sound pressure level :	54
Gross/Net weight [kg]:	29/25
Oil charge [dm <sup>3</sup> ]:	1

### Electrical data

Power supply [V/~/Hz]:	220-240/1/50Hz
Locked rotor current [A]:	61
Max. operating current [A]:	14,8
Winding resistance [ $\Omega$ ]:	2,23/1,20

### Connections

	<u>milimeters</u>	<u>inches</u>
Suction Rotolock valve connection:		-
Discharge Rotolock valve connection:		-
Suction connection with supplied sleeve:		3/4"
Discharge connection with supplied sleeve:		1/2"

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## Capacity

R22

### Cooling capacity [kW]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
30	2.74	3.45	4.28	5.23	6.34	7.62	9.08
35	2.57	3.28	4.08	5.00	6.07	7.29	8.68
40	2.39	3.09	3.88	4.78	5.80	6.97	8.31
45	-	2.88	3.66	4.53	5.53	6.65	7.93
50	-	-	3.39	4.25	5.22	6.31	7.53
55	-	-	-	3.92	4.86	5.91	7.09
60	-	-	-	-	4.43	5.45	6.59
65	-	-	-	-	3.90	4.91	6.01

### Power input [kW]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
30	1.30	1.30	1.29	1.28	1.26	1.24	1.21
35	1.45	1.45	1.44	1.43	1.41	1.39	1.37
40	1.61	1.61	1.61	1.60	1.58	1.56	1.53
45	-	1.80	1.79	1.78	1.76	1.74	1.71
50	-	-	2.01	2.00	1.98	1.95	1.92
55	-	-	-	2.26	2.23	2.20	2.17
60	-	-	-	-	2.54	2.50	2.46
65	-	-	-	-	2.90	2.86	2.81

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## Capacity

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### Current [A]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
30	6.34	6.32	6.29	6.23	6.16	6.05	5.91
35	6.97	6.95	6.92	6.87	6.80	6.70	6.57
40	7.67	7.65	7.61	7.57	7.49	7.40	7.27
45	-	8.46	8.42	8.36	8.29	8.18	8.05
50	-	-	9.38	9.31	9.22	9.11	8.96
55	-	-	-	10.47	10.36	10.22	10.06
60	-	-	-	-	11.74	11.58	11.39
65	-	-	-	-	13.41	13.22	13.01

### Mass flow [kg/s]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
30	58.84	73.17	89.50	108.14	129.44	153.74	181.36
35	57.48	72.18	88.70	107.39	128.58	152.61	179.80
40	55.73	70.95	87.85	106.75	128.00	151.91	178.84
45	-	68.96	86.40	105.68	127.14	151.12	177.95
50	-	-	83.79	103.62	125.46	149.67	176.57
55	-	-	-	100.03	122.43	147.03	174.16
60	-	-	-	-	117.50	142.66	170.19
65	-	-	-	-	110.13	136.01	164.11

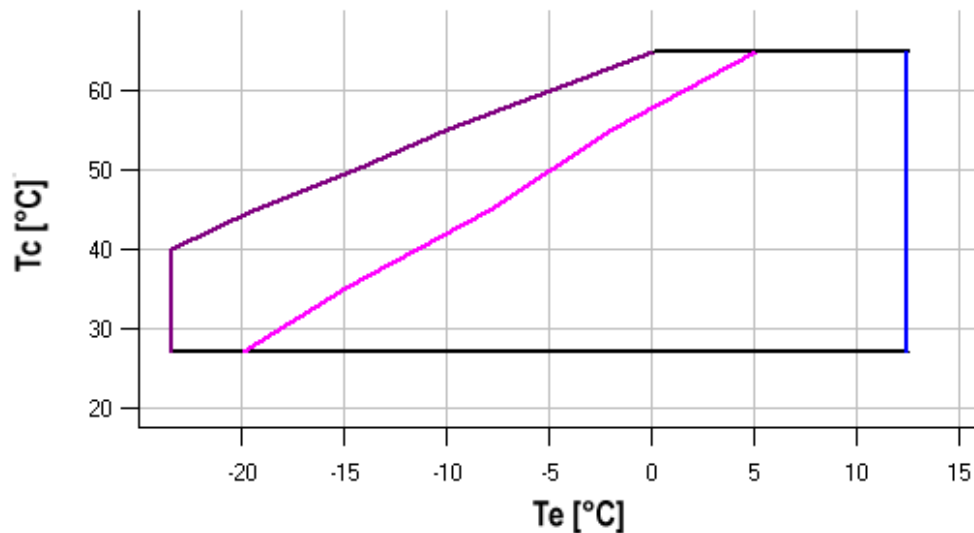
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Capacity

## C.O.P. [W/W]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
30	2.11	2.66	3.32	4.10	5.04	6.16	7.52
35	1.78	2.26	2.83	3.50	4.29	5.23	6.36
40	1.48	1.92	2.42	2.99	3.67	4.48	5.43
45	-	1.60	2.04	2.54	3.13	3.82	4.63
50	-	-	1.68	2.13	2.64	3.23	3.92
55	-	-	-	1.73	2.18	2.68	3.27
60	-	-	-	-	1.75	2.18	2.68
65	-	-	-	-	1.35	1.72	2.14

## Application range



- Maximum evaporating temperature
- 25°C suction gas temperature
- 10K gas overheat

Operating conditions: 10K suction superheat, 0K subcooling

$t_c$  - Condensing temperature [°C]

$t_e$  - Evaporating temperature [°C]