Rotary Compressors

Panasonic



Embrital

Hermetic Compressors Provider

Panasonic ROTARY COMPRESSORS R290

Model	Power Source [ph/V/Hz]	Cooling Capacity [kW]	COP [W/W]	Displacement [cc/rev]	Weight [kg]	Type
7TS035E	1ph 220-240/50	0,49	2,29	3,5	3,2	Single
7TD052E	1ph 220-240/50	0,75	2,70	5,3	4,1	Twin
7TD075E	1ph 220-240/50	1,05	2,29	7,5	4,2	Twin
7RS102E	1ph 220-240/50	1,50	3,09	10,3	7,9	Single
7RS132E	1ph 220-240/50	1,95	3,09	13,2	9,1	Single
7PS192E	1ph 220-240/50	2,90	3,09	19,1	11,5	Single
7KS280E	1ph 220-240/50	4,20	3,19	28,2	15,4	Single
7VS355E	1ph 220-240/50	5,50	3,29	35,5	19,9	Single
7VD485E	1ph 220-240/50	7,50	3,09	48,8	23,5	Twin

Panasonic INVERTER ROTARY COMPRESSORS R290

Model	Rated Motor Voltage	Cooling Capacity [kW] @ 60 rps	COP [W/W]	Displacement [cc/rev]	Weight [kg]	Type	Range [rps]
7WD138Z	DC 280V	2,75	3,64	13,9	7,8	Twin	15-120
7RD220Z	DC 280V	4,20	3,64	22,0	9,0	Twin	15-120
7RD310Z	DC 280V	6,01	3,51	31,0	10,0	Twin	15-120
7KD420X	DC 280V	8,50	3,55	42,0	15,3	Twin	15-110
7VD550Z	DC 280V / DC 520V	10,57	3,59	55,0	22,5	Twin	15-110
7JD650X	DC 280V / DC 520V	13,20	3,34	65,0	24,1	Twin	15-110
7JD800X	DC 520V	15,80	3,47	80,0	26,7	Twin	15-110

Rated Test Condition:

Condensing Temp.	54,4°C
Evaporating Temp.	7,2°C
Liquid Temp.	46,1°C
Ambient Temp.	35,0°C
Suction Temp.	35,0°C

Panasonic ROTARY COMPRESSORS R454C

Model	Power Source [ph/V/Hz]	Cooling Capacity [kW]	COP [W/W]	Displacement [cc/rev]	Weight [kg]	Type
1RS102E	1ph 220-240/50	1,47	2,63	10,3	7,9	Single
GRS132E	1ph 220-240/50	1,90	2,74	13,2	9,1	Single
GPS192E	1ph 220-240/50	2,85	2,89	19,1	11,5	Single
GKS280E	1ph 220-240/50	4,15	2,08	28,2	15,4	Single
GVS355E	1ph 220-240/50	5,40	3,04	35,5	19,9	Single
GVD485E	1ph 220-240/50	7,90	3,02	48,8	23,5	Twin
GVD485B	3ph 380-420/50	7,95	3,22	48,8	23,5	Twin

Panasonic INVERTER ROTARY COMPRESSORS R454C

Model	Rated Motor Voltage	Cooling Capacity [kW] @ 60 rps	COP [W/W]	Displacement [cc/rev]	Weight [kg]	Type	Range [rps]
GWD138Z	DC 280V	2,61	2,82	13,8	7,8	Twin	15-110
GWD220Z	DC 280V	3,99	2,41	22,0	10,2	Twin	10-120
GKD330Z	DC 280V	5,71	2,54	33,0	17,2	Twin	15-120
GKD420Z	DC 280V	8,08	2,57	42,0	17,2	Twin	15-110
GVD550Z*	DC 280V / DC 520V	10,04	2,59	55,0	23,9	Twin	15-110
GVD650Z*	DC 280V / DC 520V	12,54	2,45	65,0	23,9	Twin	15-110
GJD800Z*	DC 520V	15,01	2,52	80,0	26,7	Twin	15-110

* Model under development

Rated Test Condition:

Condensing Temp.	54,4°C
Evaporating Temp.	7,2°C
Liquid Temp.	46,1°C
Ambient Temp.	35,0°C
Suction Temp.	35,0°C

Panasonic ROTARY COMPRESSORS R1234yf 50-60Hz

Model	Power Source [ph/V/Hz]	Cooling Capacity [kW] @50Hz	COP [W/W]	Displacement [cc/rev]	Weight [kg]	Type
1TS035A	1ph 200-240/50-60	0,38	2,01	3,5	3,8	Single
1SS072A	1ph 200-240/50-60	0,84	2,41	7,3	5,8	Single
1RS102A	1ph 200-240/50-60	1,21	2,62	10,2	7,9	Single
1PS132A	1ph 200-240/50-60	1,51	2,99	13,2	11,9	Single
1PS192A	1ph 200-240/50-60	2,17	2,70	19,1	12,0	Single
1KS280A	1ph 200-240/50-60	3,27	3,09	28,2	18,0	Single

Panasonic DC INVERTER ROTARY MICRO COMPRESSORS R290

Model	Rated Motor Voltage	Cooling Capacity [kW] @60 rps	COP [W/W]	Displacement [cc/rev]	Weight [kg]	Type	Range [rps]
7MS020Z	DC 24V/48V/280V	0,46	2,35	2,0	0,8	Single	30-90
7MD030Z	DC 24V/48V/280V	0,52	2,39	3,0	1,6	Twin	30-90
7TD060Z	DC 48V	1,05	2,42	6,0	3,9	Twin	30-90
7TD075Z	DC 48V	1,30	2,46	7,5	4,1	Twin	30-90

Rated Test Condition:

Condensing Temp.	54,4°C
Evaporating Temp.	7,2°C
Liquid Temp.	46,1°C
Ambient Temp.	35,0°C
Suction Temp.	35,0°C

10/2026

Embrital
Hermetic Compressors Provider

Viale Lino Zanussi, 8 - 33170 Pordenone (Italy)
+39 0434 572711 - info@embrital.com
www.embrital.com