

Compressors and Controls

Heat Pump



Sole agent of:





Since 1986 @ your side for HVAC and Refrigeration projects

We offer full HVAC-R solutions both for Mid and Low temp applications with Natural and HFC refrigerants. Our manufacturing experience will allow us to assist you during all project phases. We selected the top refrigeration compressor manufacturers to offer you the best possible solution for your needs.

Panasonic

ROTARY CO₂
10 million units production.
World leader in CO₂ Hermetic compressors.

Bsonyo

SCROLL
1,6 million units production.
Leader in Scroll Hermetic compressors.

GMCC

ROTARY / Reciprocating
110 million units production.
Part of Midea Group
30% of global market share.

CRSS

Refrigeration ROTARY
8 million units production.
Specialized in refrigeration compressors
Part of Panasonic Group.



CO₂ SCROLL Compressors
Specialists in transcritical, single stage CO₂ inverter scroll compressors.

area Inverter Drives

Inverter Drivers
+16 years of experience in Inverter Driven applications.



Motors and fans
Specializing in ECM and shaded pole motors, designed to operate at low temperatures with high efficiency.



We understand your business and provide you with a wide range of solutions.

Over 16 years' experience in inverter technology. Remote control and preventive maintenance features.

We provide technical support and documentation in your language to develop your next generation of products.

Direct involvement in your projects.

Presential, or via the web, phone, mail, chat and videoconferencing.

F-gas restrictions for Heat Pump

Application	Limitation	Starting date	Allowed ref	Safety exception
Self contained A/C and Heat Pump	GWP<150 <50kW except for safety reasons GWP<750	1/1/27	R290 Propane/R744 CO2 R454C/R455A except for safety reasons	R410A/R407C R513A
	NO HFC <12kW except for safety reasons GWP<750	1/1/32	R290 Propane/R744 CO2 except for safety reasons	R410A/R407C R513A
	GWP<150 >50kW except for safety reasons GWP<750	1/1/30	R290 Propane/R744 CO2 R454C/R455A except for safety reasons	R410A/R407C R513A
Split system	Single Split GWP<750 <3kg of charge	1/1/25	R290 Propane/R744 CO2 R32/R454B/R454C/R455A/R513A	-
	Split Air to Air GWP<150 <12kW except for safety reasons	1/1/27	R290 Propane/R744 CO2 R454C/R455A except for safety reasons	R410A/R407C R513A
	Split Air to Water GWP<150 <12kW except for safety reasons	1/1/29	R290 Propane/R744 CO2 R454C/R455A except for safety reasons	R410A/R407C R513A
	Split system NO HFC <12kW except for safety reasons	1/1/35	R290 Propane/R744 CO2 except for safety reasons	R410A/R407C R513A



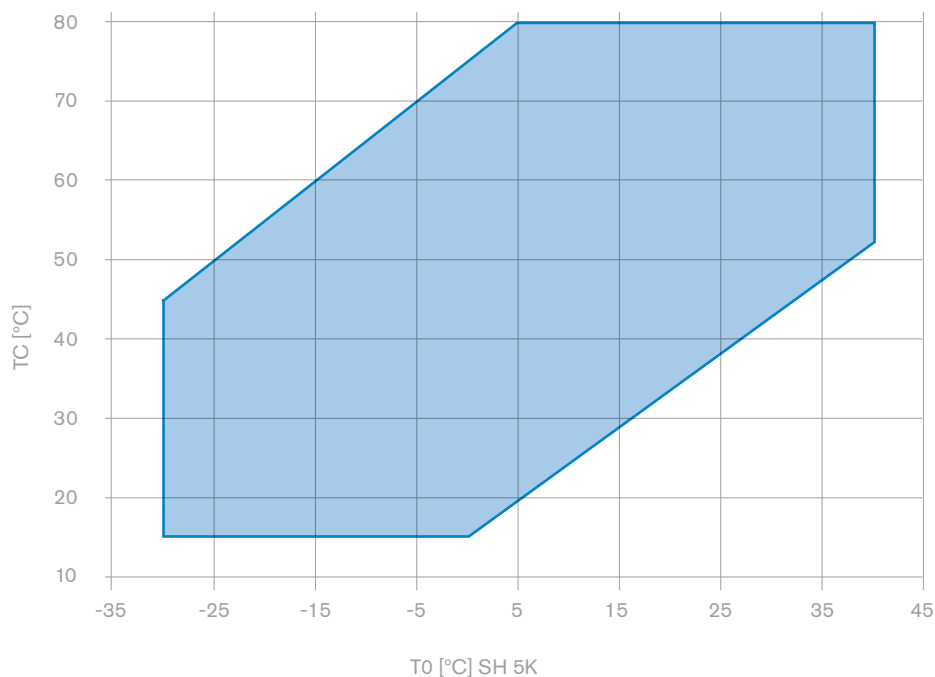
Product range

BSonyo R290 E&B Series



GWP=3
Natural

R290



Heating Capacity MT: (Tev=7;Tco= 50)[W]
Heating Capacity HT: (Tev=2,7;Tco= 42,3)[W]

Description	Design	PED	Phase	Revolution Range	Height [mm]	Heating Capacity MT	Heating Capacity HT	COP HT
7CE058LA01/04	Single/Tandem	II	3	50/60Hz	455	7119	10242	4,86
7CE069LA01/04	Single/Tandem	II	3	50/60Hz	455	8467	12194	4,91
7CB083LA01/04	Single/Tandem	II	3	50/60Hz	451	10361	14755	4,90
7CB100LA01/04	Single/Tandem	II	3	50/60Hz	451	12688	18068	4,98
7CB110LA01/04	Single/Tandem	II	3	50/60Hz	451	13922	19855	5,00

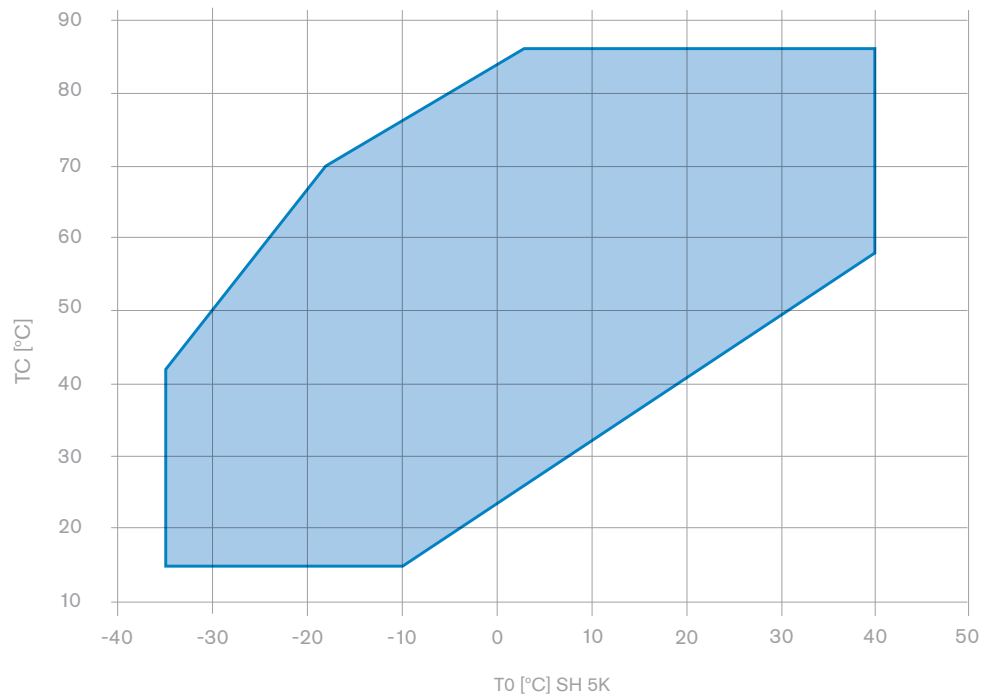
Product range

BSonyo R290 G&C Series



GWP=3
Natural

R290



Heating Capacity MT: (Tev=7;Tco= 50)[W]

Heating Capacity HT: (Tev=2,7;Tco= 42,3)[W]

Description	Design	PED	Phase	Revolution Range	Height [mm]	Heating Capacity MT	Heating Capacity HT	COP HT
7CG124LA01/04	Single/Tandem	II	3	50/60Hz	566	16556	23252	5,26
7CG145LA01/04	Single/Tandem	II	3	50/60Hz	566	18672	26226	5,27
7CG170LA01/04	Single/Tandem	II	3	50/60Hz	566	21952	31319	5,21
7CC185LA01/04	Single/Tandem	II	3	50/60Hz	553	23674	33689	5,26
7CC220LA01/04	Single/Tandem	II	3	50/60Hz	553	27872	39613	5,20
7CC260LA01/04	Single/Tandem	II	3	50/60Hz	553	33192	46320	5,03



Product range

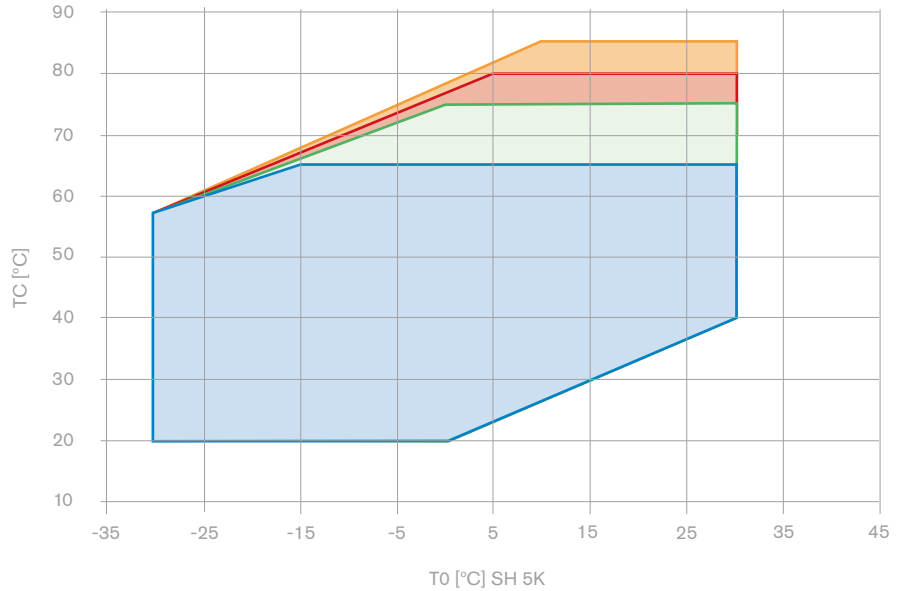
BSonyo R290 D Series



- 15-20/81-90 rps
- 21-30 rps
- 31-80 rps
- 91-120 rps

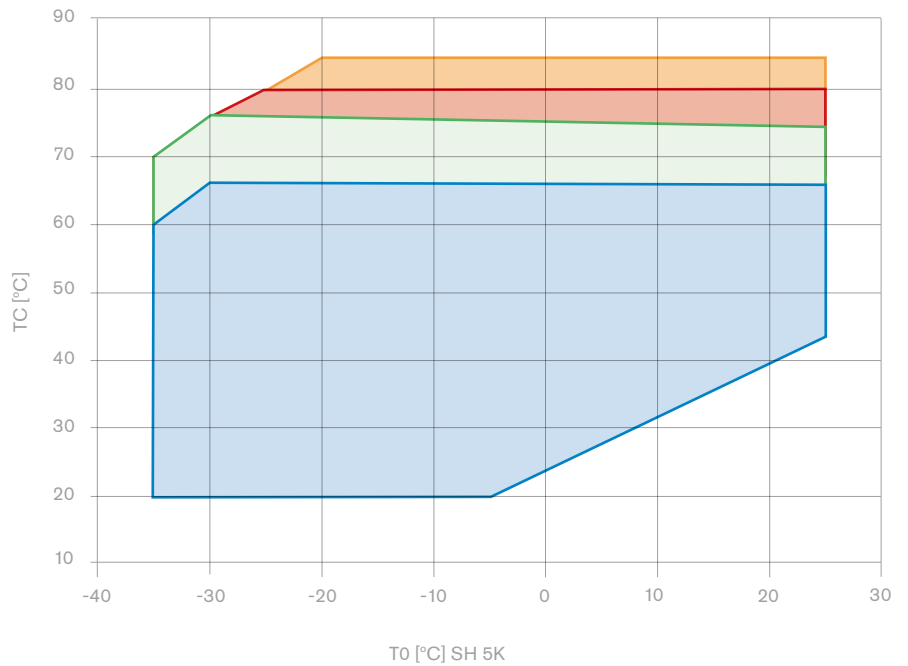
GWP=3
Natural

R290



BSonyo R290 D Series EVI

- 21-30 rps
- 31-80 rps
- 81-90 rps
- 91-120 rps



*EVI OFF

Heating Capacity MT: (Tev=7;Tco= 50)[W]

Heating Capacity HT: (Tev=2,7;Tco= 42,3)[W]

Description	Design	PED	Phase	Revolution Range	Height [mm]	Heating Capacity MT	Heating Capacity HT	COP HT
7CD081ZA11/12	BLDC High pressure/EVI	II	3	15-120 rps	470	19935*	28403*	5,20*
7CD120ZA14/12	BLDC High pressure/EVI	II	3	15-120 rps	470	27873*	39356*	5,38*



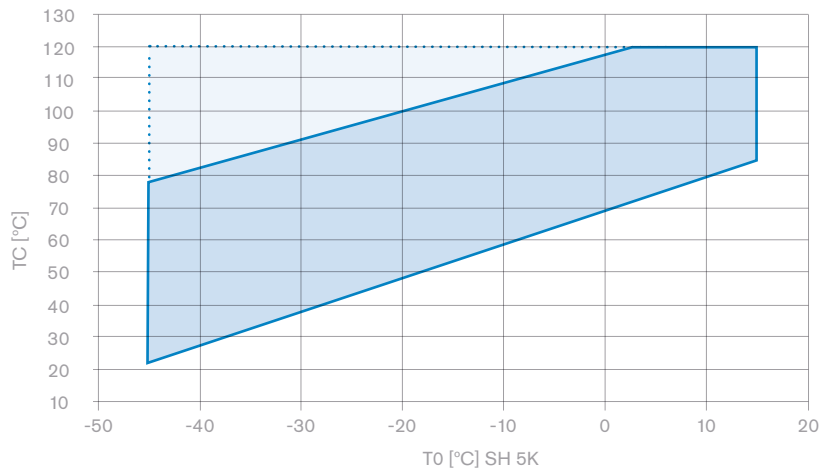
Product range

Panasonic
CO₂

Panasonic®



GWP=1
Natural



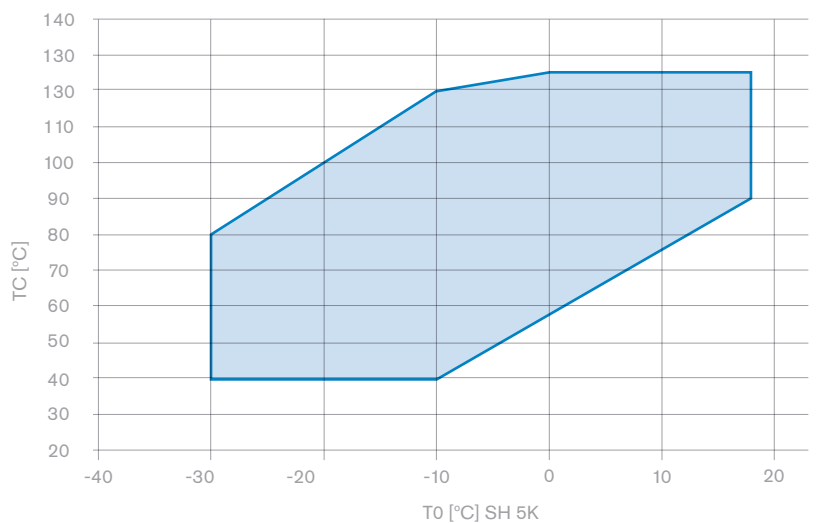
Pressure:100bar · Tgas cooler 32°C
Heating Capacity HT CO₂: (Tev=5°C; @max speed) [W]

Description	Design	Stage	Revolution Range [rps]	Height [mm]	Weight [kg]	Capacity HT CO ₂
C-1CV43M0A	VERTICAL	I	30 - 70	209	7,8	1611
C-CV63M0A	VERTICAL	II open	40 - 70	203	7,7	2854
C-CHV113L0A	HORIZONTAL	II open	40 - 70	166	10,2	4457
C-CV163L0A	VERTICAL	II open	37 - 70	251	11,6	6398
8CS044ZAD64	VERTICAL	I	30 - 90	341	11,6	8350
C-CV303HOT	VERTICAL	II Internal	40 - 80	302	17,2	1232
8LV080ZA0F	VERTICAL	II open	40 - 80	302	17,2	10332
C-CV753L0U	VERTICAL	II open	30 - 60	524	38,8	23930
8JV208XA0F	VERTICAL	II open	30 - 90	524	38,8	36653

Xuanke
CO₂



GWP=1
Natural



Pressure:100bar · Tgas cooler 40°C
Heating Capacity HT CO₂: (Tev=5°C; @max speed) [W]

Description	Design	Stage	Revolution Range [rps]	Height [mm]	Weight Excl. Oil [kg]	Capacity HT CO ₂
D21GC1	VERTICAL	I	30 - 100	121	14,3	34600



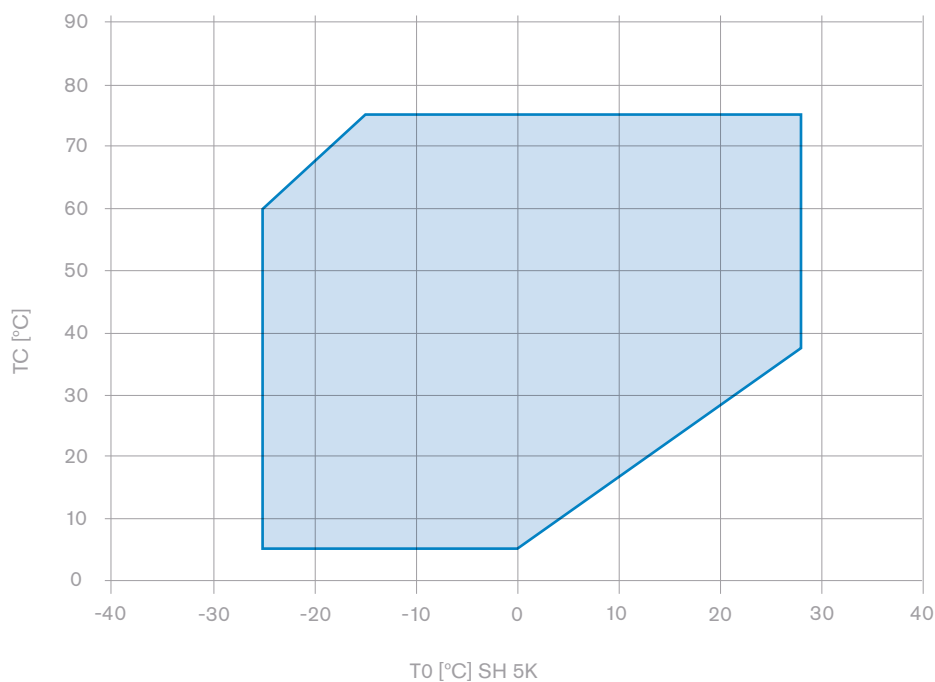
Product range

GMCC R290 Hot Water/Dryer



GWP=3
Natural

R290



Description	Revolution Range	Power Supply	Heating Capacity [W]	Heating COP	Tev	Tcon
RDSN50V11TZG3	50 Hz	1 Φ 220 - 240 V	970	4,15	7,2	54,4
RDSN58V11TZRA3	50 Hz	1 Φ 220 - 240 V	1115	4,17	7,2	54,4
RDSN89V11TZZ	50 Hz	1 Φ 220 - 240 V	1260	4,14	7,2	54,4
RDSN108V11TBZ	50 Hz	1 Φ 220 - 240 V	1637	4,20	7,2	54,4
RDSM140V11TDZ	50 Hz	1 Φ 220 - 240 V	2040	4,26	7,2	54,4
RDSM215V2TDZ	50 Hz	1 Φ 220 - 240 V	3964	4,20	7,2	54,4
RDSK57V11EZR	50 Hz	1 Φ 220 - 240 V	1170	3,12	25,0	70,0
RDSN71V11EZR3	50 Hz	1 Φ 220 - 240 V	1450	3,38	25,0	70,0
RDSN82V11TZE	50 Hz	1 Φ 220 - 240 V	1710	3,35	25,0	70,0

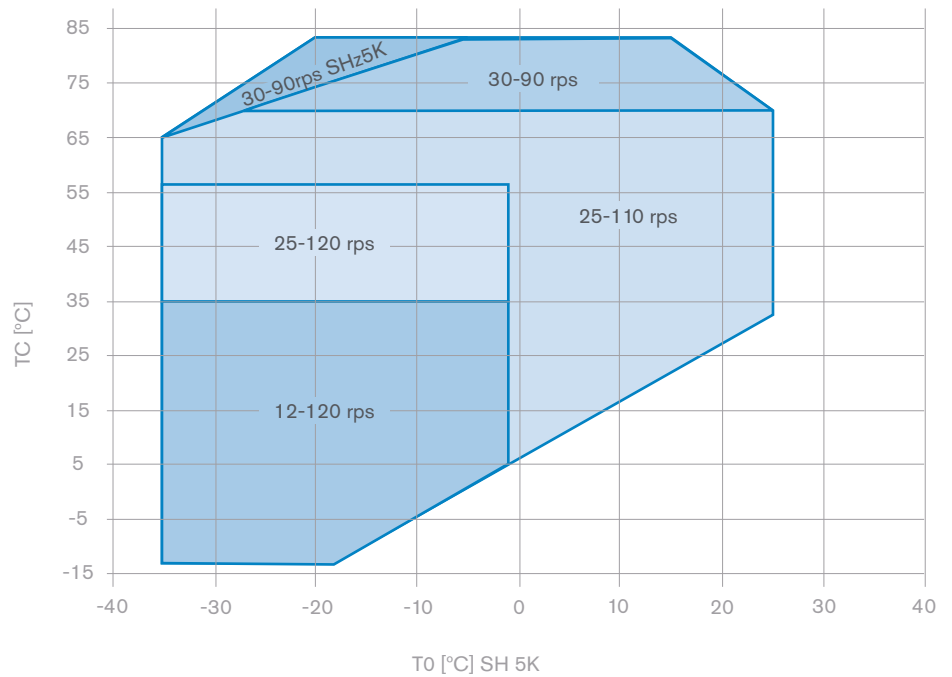
Product range

GMCC R290 Heat Pump



GWP=3
Natural

R290



Heating Capacity R290: ($T_{ev}=2,7^{\circ}\text{C}; T_{co}= 42,3$) [W] @90 rps

Description	Revolution Range	Power Supply	Displacement [cm ³]	Heating Capacity R290	COP
RDSK46D15TZR3	12-120 RPS	1 Φ DC INVERTER	4,6	1587	3,10
RDSK66D15TBZ3	12-120 RPS	1 Φ DC INVERTER	6,6	2255	3,29
RDSK75D35TBZ3	12-120 RPS	1 Φ DC INVERTER	7,5	2598	3,08
RDSK89D35TBZ3	12-120 RPS	1 Φ DC INVERTER	8,9	3053	3,24
EDTN150D32EFZ	12-120 RPS	1-3 Φ DC INVERTER	15,0	5014	3,51
EDTN180D32EFZ	12-120 RPS	1-3 Φ DC INVERTER	17,9	6016	3,51
EDTN210D32EFZ	12-120 RPS	1-3 Φ DC INVERTER	20,9	7019	3,51
EDTM310D85EMT	12-120 RPS	1-3 Φ DC INVERTER	31,0	10558	3,49
EDTF420D62EMT	12-120 RPS	3 Φ DC INVERTER	42,0	14745	3,45
EDTF420D64EMT	12-120 RPS	1-3 Φ DC INVERTER	42,0	14849	3,34
EDTQ580D2ENT	12-120 RPS	1 Φ DC INVERTER	58,0	20915	3,25
EDTQ750D66ENT	12-120 RPS	3 Φ DC INVERTER	75,0	27400	3,33



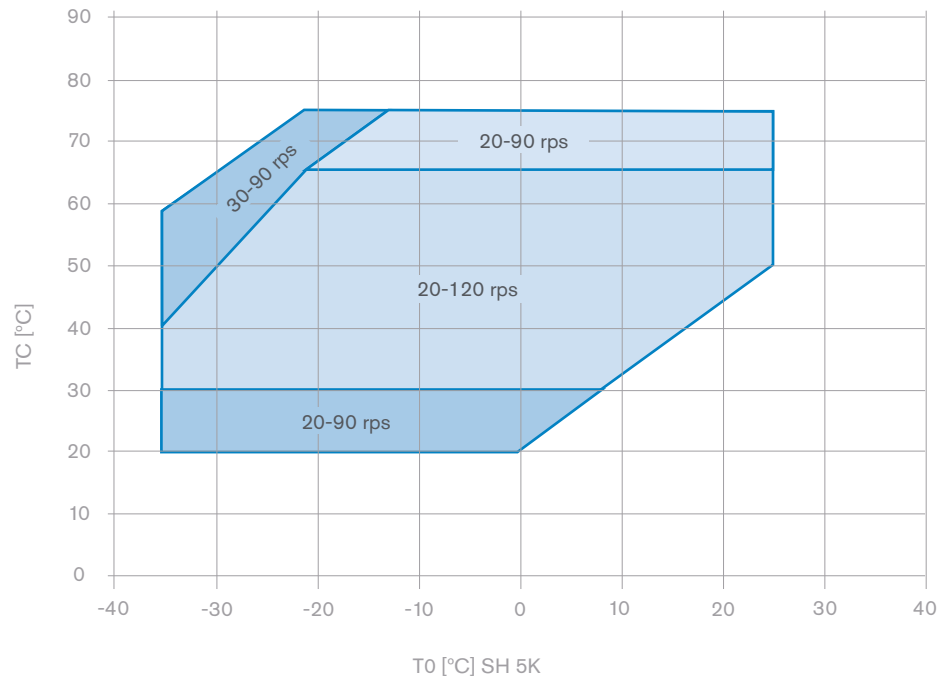
Product range

GMCC R290 Inverter Scroll



GWP=3
Natural

R290



* EVI OFF

Heating Capacity R290: (Tev=2,7°C;Tco= 42,3) [W] @90 rps

Description	EVI	Revolution Range	Power Supply	Displacement [cm3]	Heating Capacity R290	COP
SEDGC096D41ELK	NO	20-120 RPS	3 Φ DC INVERTER	96	16700	3,30
SEDVC096D41ELK	YES	20-120 RPS	3 Φ DC INVERTER	96	16700*	3,3*
SEEDGE135D11TLG	NO	20-120 RPS	3 Φ DC INVERTER	135	23500	3,30
SEDVE135D11TLG	YES	20-120 RPS	3 Φ DC INVERTER	135	23500*	3,3*

Inverter Driver

Product Range

Driver solutions for inverter compressors



INVERTER
TECHNOLOGY



AREA - Coolvert
Housed Inverter

1PH

3PH



AREA - SPB series.
OEM, PCB Board Inverter

1PH

3 PH

0kW 4 kW 5.5 kW 8 kW 12kW 16kW 20kW 30kW

kW – electrical power supplied to Inverter

Fans

Product Range

Wide range of EC and AC fans and motors available in stock.

Scan and
learn more



Our standard range of fans and motors include:

- 250 – 910mm AC Axial Fans (sucking, grid frame version)
- 230V (1-Phase) and 400V (3-Phase) supply
- AC shaded pole and EC motors
- Fan blades and grids up to 300mm diameter

Fans on Request:

- Blowing versions
- Square, cylinder and round-frame versions
- EC axial fans
- DC axial fans



What can we do for you?

Identify your present and future requirements as a manufacturer, contractor or end-user.

Share with you our experiences and our vision of the market.

Handle all commercial & financial issues.

Organize logistics.

Provide technical support and warranty.

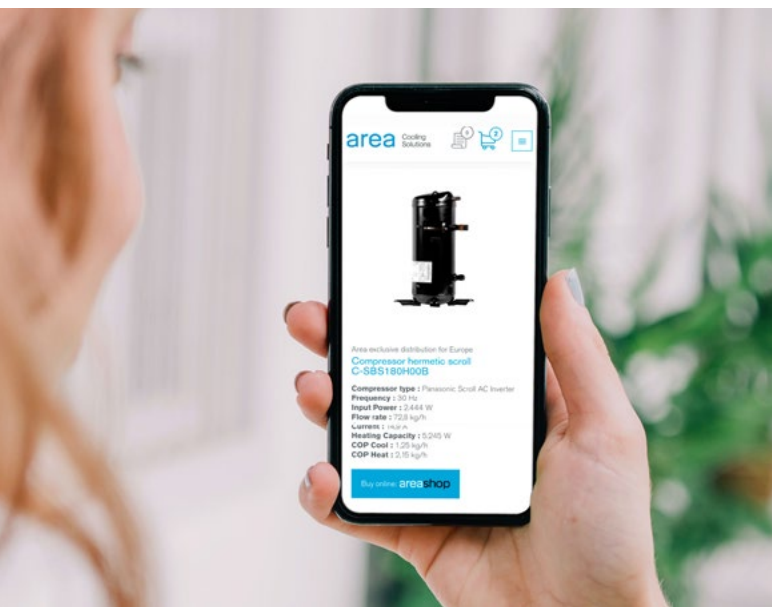
Search engine for cross references

Check out our website to find our calculation software and a complete list of all updated equivalent products

- 1 Go to cross references search engine
- 2 Search for a model
- 3 Find your equivalent
- 4 Consult our product



Scan to access



Easy online selection with our Calculation software

Search for your products based on your needs and access in one click to the Technical Information of our compressors, including Capacities and Working Envelopes.



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