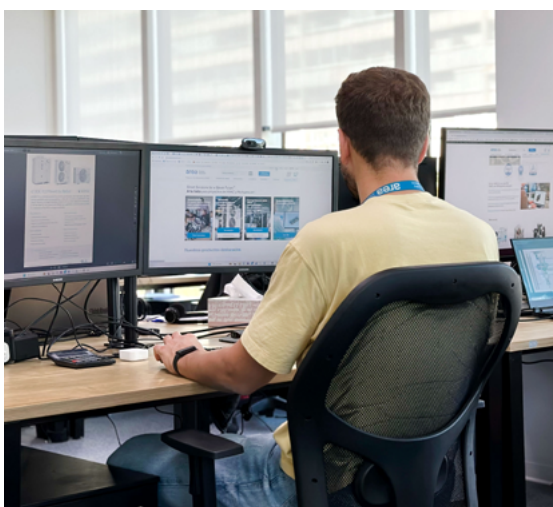


Compressors and Controls

Sole agent and distributor in
Europe for leading brands



Stock available:



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®

SCROLL / ROTARY

Production: 1,6 million units.
World leader in CO₂ Hermetic compressors.

GMCC

ROTARY / Reciprocating

Production: 110 million units.
Part of Midea Group
30% of global market share.

CRSS

Refrigeration ROTARY

Production: 8 million units.
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

+15 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.



Refrigeration

500gr limit charge
approved

The new [EN IEC 60335-2-89](#) allows charging up to **494g** without extra safety measures. Only a risk assessment is needed, with no space restrictions under [EN 378](#).



F-gas restrictions for commercial refrigeration

Application	Limitation	Starting date	Allowed refrigerants	Safety Exception
Commercial refrigerators and freezers (self contained)	GWP<150	1/01/2025	R290 Propane/R744 CO2 R454C/R455A	-
Self contained refrigeration equipment except chiller	GWP<150 except for safety reasons	1/01/2025	R290 Propane/R744 CO2 R454C/R455A except for safety reasons	R448-9A/R513A
Refrigeration equipment except chillers and below -50°C	GWP<2500 except for safety reasons	1/01/2025	R448-9A/R513A	R448-9A/R513A
	GWP<150 except for safety reasons	1/01/2025	R290 Propane/R744 CO2 R454C/R455A except for safety reasons	R448-9A/R513A

Commercial Refrigeration Product range

Scan to view our
the product range



R448A-R449A solutions

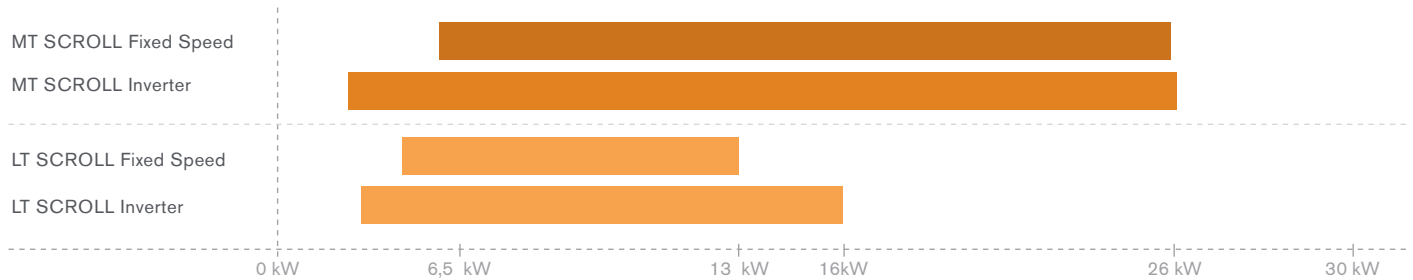
May be used as safety
exception refrigerant

GWP=1.386

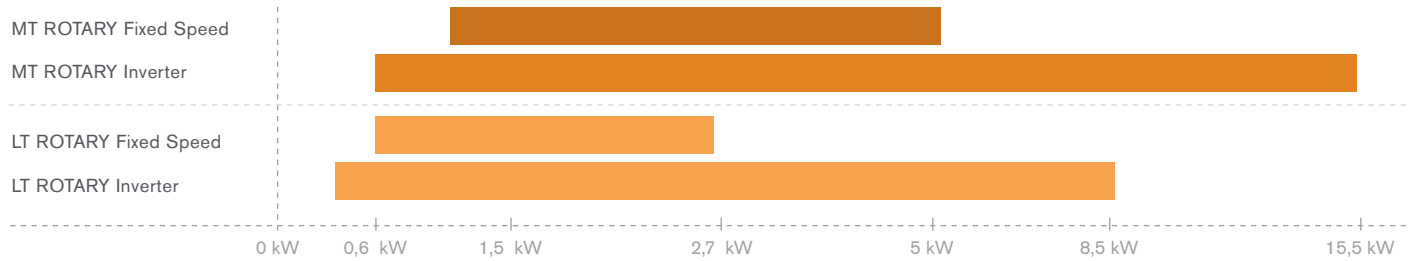
R448A

R449A

GWP=1.396



MT SCROLL: $T_{ev} -6,5^{\circ}\text{C}$ $T_{cond} 40,5^{\circ}\text{C}$ – 30Hz min/75-100Hz max for Inverter range
LT SCROLL: $T_{ev} -15^{\circ}\text{C}$ $T_{cond} 50^{\circ}\text{C}$ – 30Hz min/90Hz max for Inverter range



MT & LT ROTARY also available in horizontal design
MT ROTARY: $T_{ev} -10^{\circ}\text{C}$ $T_{cond} 54,4^{\circ}\text{C}$ – 15rps min/100rps max for Inverter range
LT ROTARY: $T_{ev} -23^{\circ}\text{C}$ $T_{cond} 54,4^{\circ}\text{C}$ – 15rps min/100rps max for Inverter range

R454C-R455A solutions

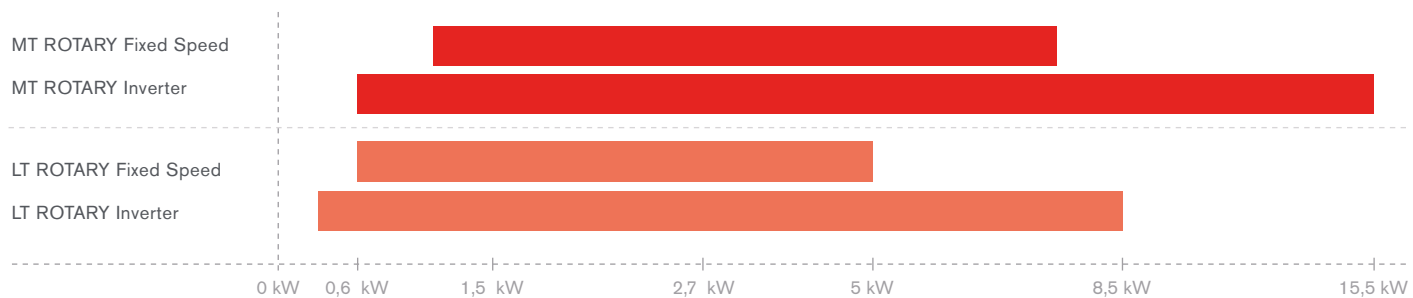
GWP=145

R454C

R455A



MT SCROLL: $T_{ev} -6,5^{\circ}\text{C}$ $T_{cond} 40,5^{\circ}\text{C}$ – 30Hz min/75-100Hz max for Inverter range



MT & LT ROTARY also available in horizontal design
MT ROTARY: $T_{ev} -10^{\circ}\text{C}$ $T_{cond} 54,4^{\circ}\text{C}$ – 15rps min/100rps max for Inverter range
LT ROTARY: $T_{ev} -23^{\circ}\text{C}$ $T_{cond} 54,4^{\circ}\text{C}$ – 15rps min/100rps max for Inverter range

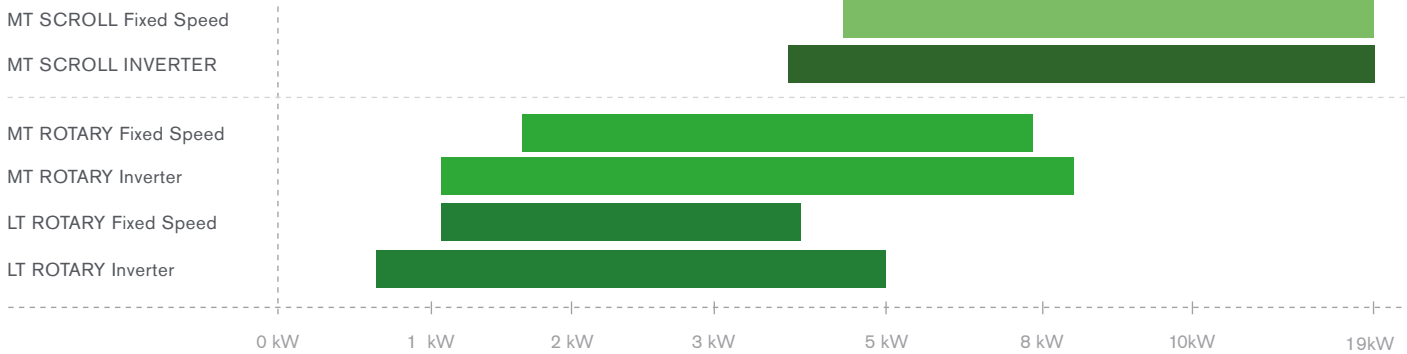
Commercial Refrigeration Product range

Scan to view our
the product range



R290/Propane Solutions

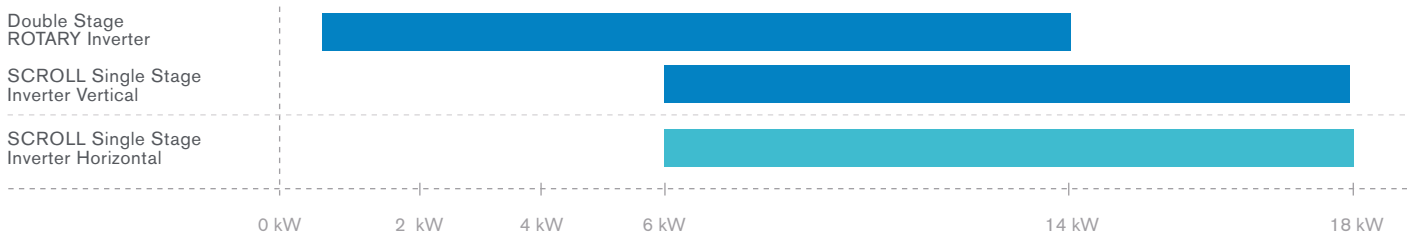
GWP=3 R290
Natural



MT & LT ROTARY horizontal design
MT ROTARY / SCROLL: $T_{ev} -10^{\circ}\text{C}$ $T_{cond} 54,4^{\circ}\text{C}$ – 15rps min/120rps max for Inverter range
LT ROTARY: $T_{ev} -23^{\circ}\text{C}$ $T_{cond} 54,4^{\circ}\text{C}$ – 15rps min/120rps max for Inverter range

R744/CO₂ Solutions

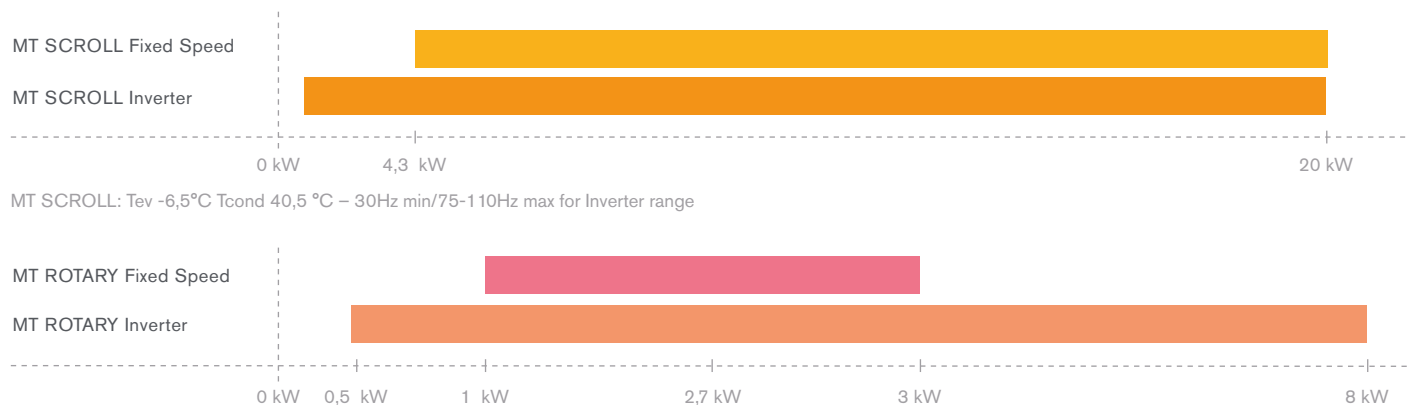
GWP=1 CO₂
Natural



Double stage ROTARY and SCROLL also available in horizontal design.
Double stage ROTARY: $T_{ev} -10^{\circ}\text{C}$ Gas Cooler out 32°C
SCROLL Single Stage Inverter Horizontal: $T_{ev} -10^{\circ}\text{C}$ Gas Cooler out 32°C
SCROLL Single Stage Inverter Vertical: $T_{ev} -10^{\circ}\text{C}$ Gas Cooler out 32°C

R513A solutions

GWP=629 R513A
May be used as safety
exception refrigerant



MT & LT ROTARY also available in horizontal design
MT ROTARY: $T_{ev} -10^{\circ}\text{C}$ $T_{cond} 54,4^{\circ}\text{C}$ – 15rps min/100rps max for Inverter range

Light Commercial Product Range

Scan to view our
the product range

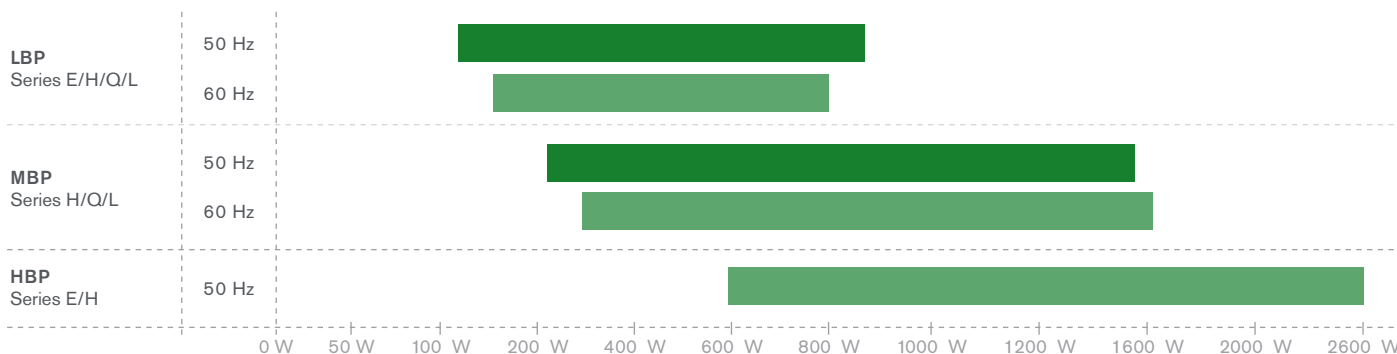


R290/Propane Fix speed

GWP=3

R290

Natural



LBP: T_{ev} -23°C T_{cond} 54,4°C
MBP: T_{ev} -6,7°C T_{cond} 54,4°C
HBP: T_{ev} -7,2°C T_{cond} 54,4°C

R290/Propane Variable speed (VCC)

GWP=3

R290

Natural



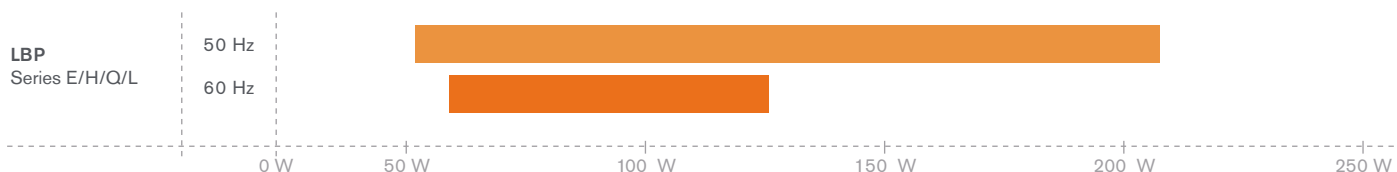
LBP: T_{ev} -23°C T_{cond} 54,4°C

R600A/Isobutane Fix speed

GWP=3

R600A

Natural



LBP: T_{ev} -23°C T_{cond} 54,4°C

R600A/Isobutane Variable speed (VCC)

GWP=3

R600A

Natural



LBP: T_{ev} -23°C T_{cond} 54,4°C

Heat Pump



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

Scan to view our
the product range

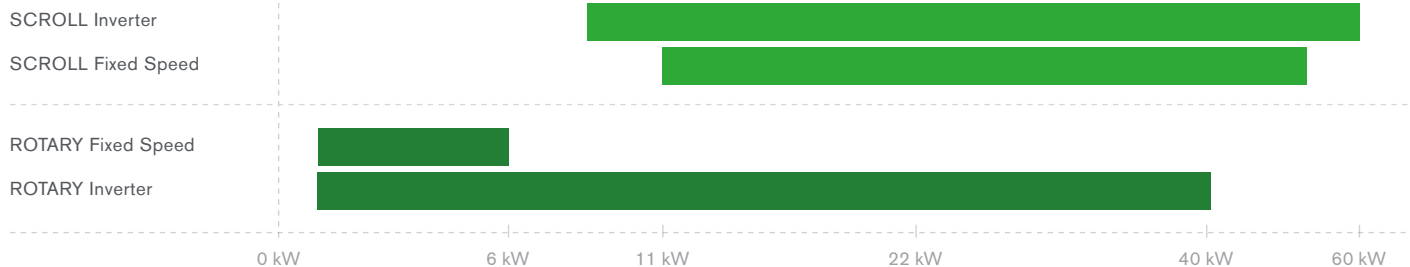


R290/Propane Solutions

GWP=3

R290

Natural



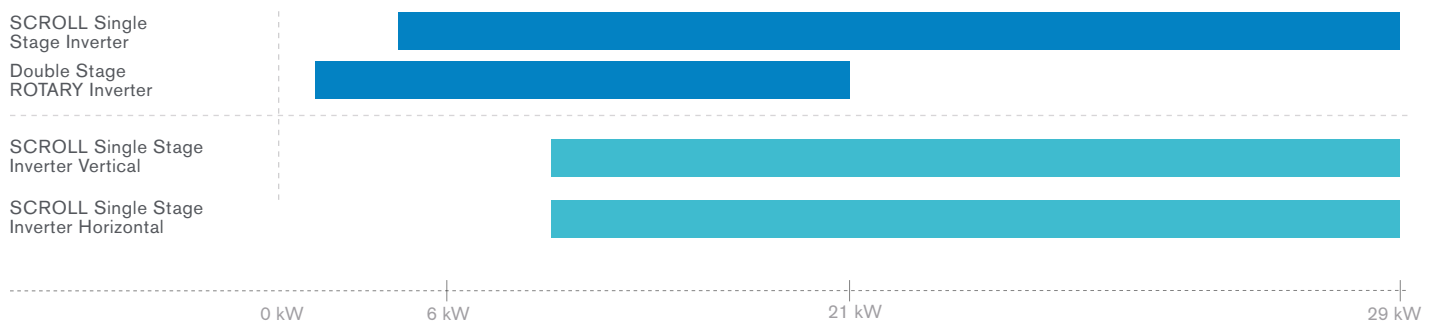
ROTARY / SCROLL T_{ev} 7,2°C T_{cond} 54,4 °C (Heating capacity) – 15rps min/120rps max for Inverter range

R744/CO₂ Solutions

GWP=1

CO₂

Natural

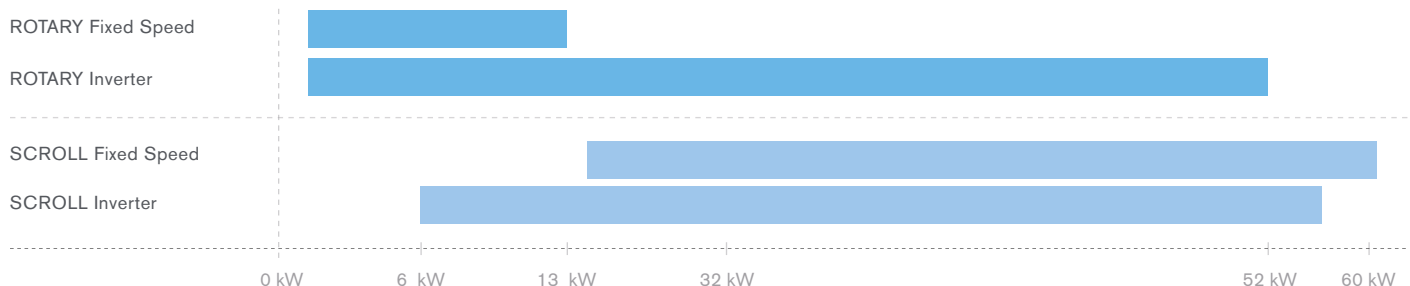


Double stage ROTARY and SCROLL also available in horizontal design.
 Double stage ROTARY (Heating Capacity): T_{ev} -10°C Gas Cooler out 32°C
 SCROLL Single Stage Inverter (Heating Capacity): T_{ev} -10°C Gas Cooler out 32°C

R32 Solutions

GWP=675

R32



ROTARY (Heating Capacity): T_{ev} 7,2°C - T_{con} 54,4°C – 15 rps min/120 rps max for Inverter range
 SCROLL (Heating Capacity): T_{ev} 7,2°C - T_{con} 54,4°C – 15 rps min/120 rps max for Inverter range

Product range

Scan to view our
the product range



R454B Solutions

GWP=465

R454B



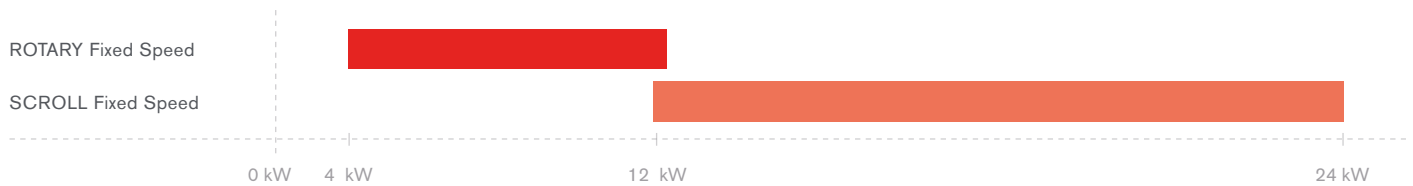
SCROLL (Heating Capacity): Tev 7.2°C - Tcon 54.4°C – 15 rps min/120 rps max for Inverter range

R454C-R455A Solutions

GWP=145

R454C

R455A



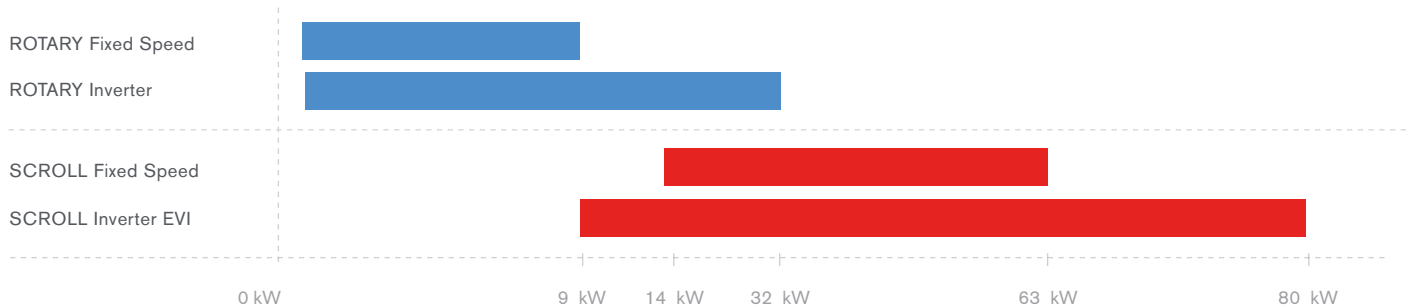
ROTARY (Heating Capacity): Tev 7.2°C Tcond 54.4°C
SCROLL (Heating Capacity): Tev 7.2°C - Tcon 54.4 °C

R410A Solutions

GWP=2.088

May be used as safety
exception refrigerant

R410A



ROTARY (Heating Capacity): Tev 7.2°C - Tcon 54.4°C – 15 rps min/120 rps max for Inverter range
SCROLL (Heating Capacity): Tev 7.2°C - Tcon 54.4°C – 15 rps min/120 rps max for Inverter range
SCROLL EVI (Heating Capacity): Tev -7°C Tcond 50°C – 30rps min/90rps max for Inverter range

Product range

Scan to view our
the product range

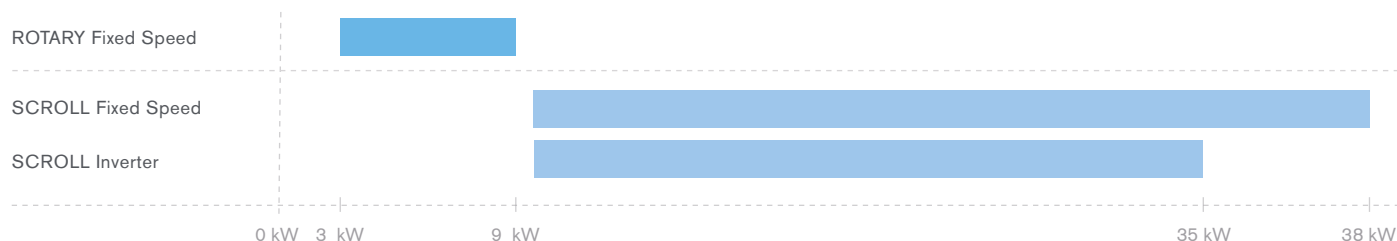


R513A Solutions

GWP=629

R513A

May be used as safety
exception refrigerant



ROTARY (Heating Capacity): Tev 7,2°C Tcond 54,4°C

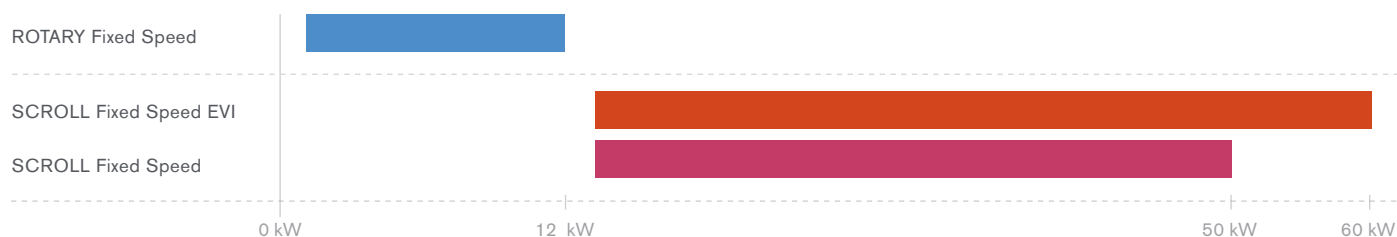
SCROLL (Heating Capacity): Tev 7,2°C - Tcon 54,4°C – 20Hz rps min / 80Hz max for Inverter range

R407C Solutions

GWP=1.774

R407C

May be used as safety
exception refrigerant

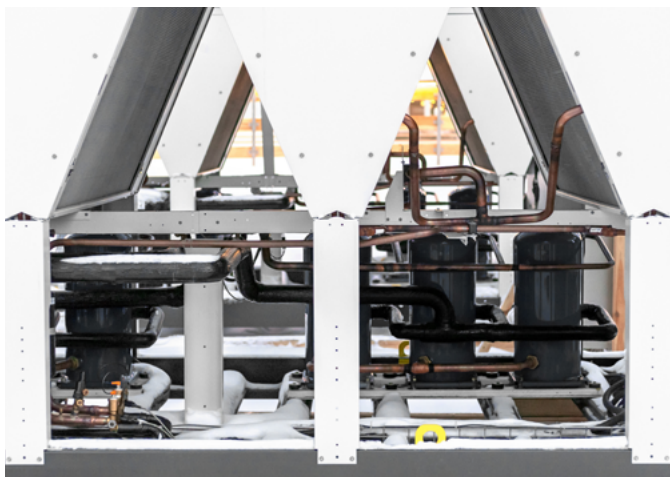


ROTARY (Heating Capacity): Tev 7,2°C Tcond 54,4°C

SCROLL (Heating Capacity): Tev 7,2°C - Tcon 54,4°C – 15 rps min/120 rps max for Inverter range

SCROLL EVI (Heating Capacity): Tev -7°C Tcond 50°C

AC & Chiller



F-gas restrictions for AC & Chiller

Application	Limitation	Starting date	Allowed ref	Safety exception
Chillers	GWP<150 <12kW except for safety reasons	1/1/27	R290 Propane/R744 CO2 R454C/R455A except for safety reasons	R410A/R407C R448-9A/R513A
	NO HFC <12kW except for safety reasons	1/1/32	R290 Propane/R744 CO2 except for safety reasons	R410A/R407C R448-9A/R513A
	GWP<750 >12kW except for safety reasons	1/1/27	R290 Propane/R744 CO2 R32/R454B/R454C/R455A/R513A except for safety reasons	R410A/R407C R448-9A/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

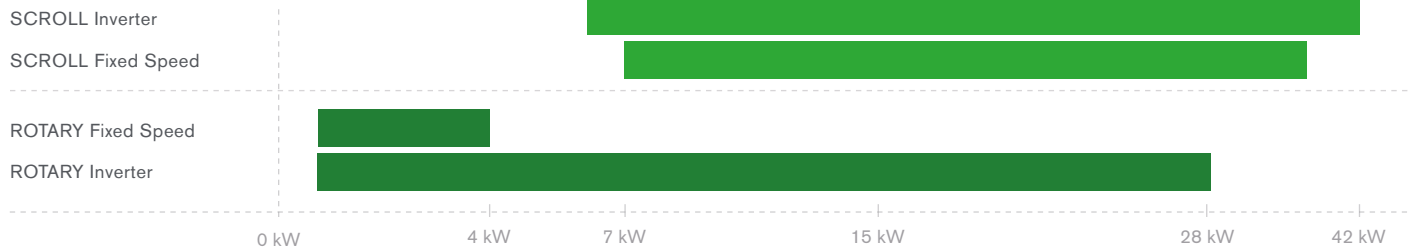
Scan to view our
the product range



R290/Propane Solutions

GWP=3
Natural

R290

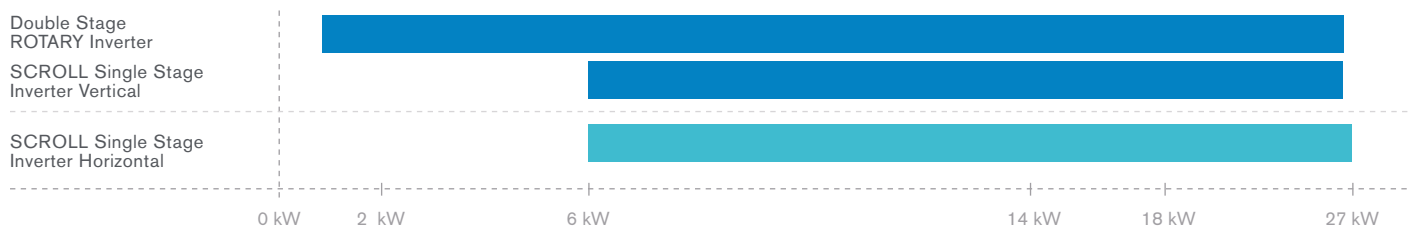


ROTARY / SCROLL Tev 7.2°C Tcond 54.4 °C – 15rps min/120rps max for Inverter range

R744/CO₂ Solutions

GWP=1
Natural

CO₂

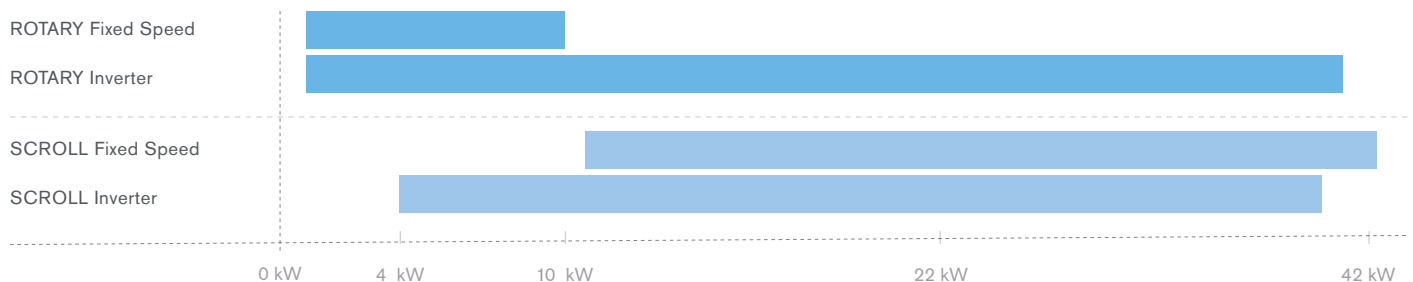


Double stage ROTARY and SCROLL also available in horizontal design.
Double stage ROTARY: Tev 5°C Gas Cooler out 32°C
SCROLL Single Stage Inverter Horizontal: Tev 5°C Gas Cooler out 32°C
SCROLL Single Stage Inverter Vertical: Tev 5°C Gas Cooler out 32°C

R32 Solutions

GWP=675

R32



ROTARY: Tev 7.2°C - Tcond 54.4°C – 15 rps min/120 rps max for Inverter range
SCROLL: Tev 7.2°C - Tcond 54.4°C – 15 rps min/120 rps max for Inverter range

Product range

Scan to view our
the product range



R454B Solutions

GWP=465

R454B



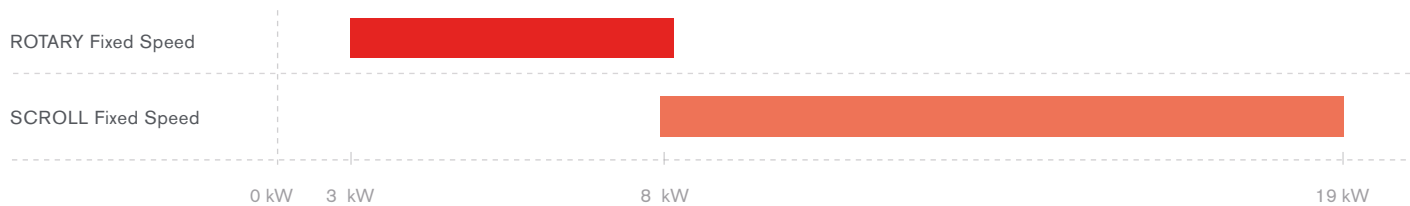
SCROLL: $T_{ev} 7.2^{\circ}\text{C}$ - $T_{con} 54.4^{\circ}\text{C}$ - 15 rps min/120 rps max for Inverter range

R454C-R455A Solutions

GWP=145

R454C

R455A



ROTARY: $T_{ev} 7.2^{\circ}\text{C}$ $T_{cond} 54.4^{\circ}\text{C}$

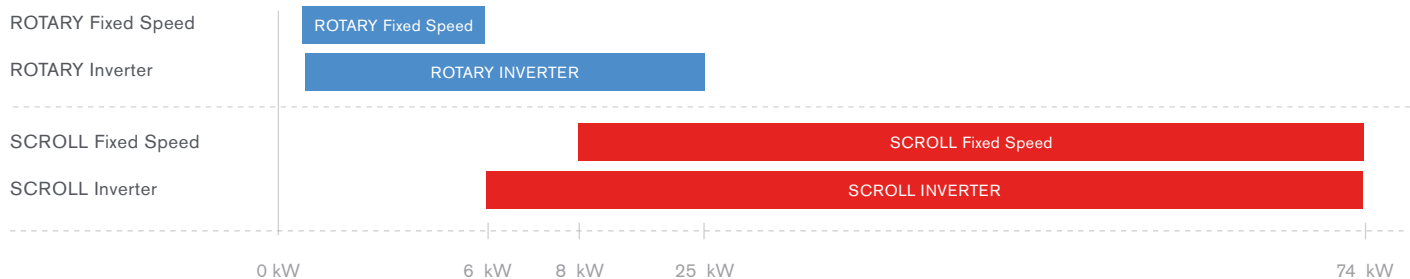
SCROLL: $T_{ev} 7.2^{\circ}\text{C}$ - $T_{con} 54.4^{\circ}\text{C}$ - 15 rps min/120 rps max for Inverter range

R410A Solutions

GWP=2.088

May be used as safety
exception refrigerant

R410A



ROTARY: $T_{ev} 7.2^{\circ}\text{C}$ - $T_{con} 54.4^{\circ}\text{C}$ - 15 rps min/120 rps max for Inverter range

SCROLL: $T_{ev} 7.2^{\circ}\text{C}$ - $T_{con} 54.4^{\circ}\text{C}$ - 15 rps min/120 rps max for Inverter range

SCROLL: $T_{ev} -7^{\circ}\text{C}$ $T_{cond} 50^{\circ}\text{C}$ - 30rps min/90rps max for Inverter range

Product range

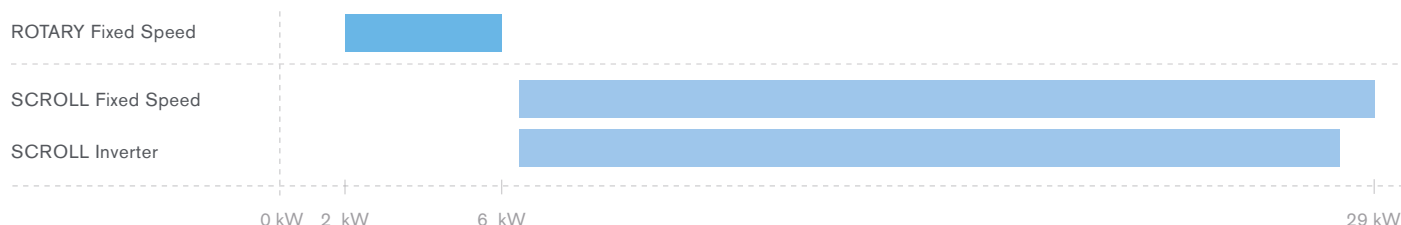
Scan to view our
the product range



R513A Solutions

GWP=629

R513A



ROTARY: $T_{ev} 7,2^{\circ}\text{C}$ $T_{cond} 54,4^{\circ}\text{C}$

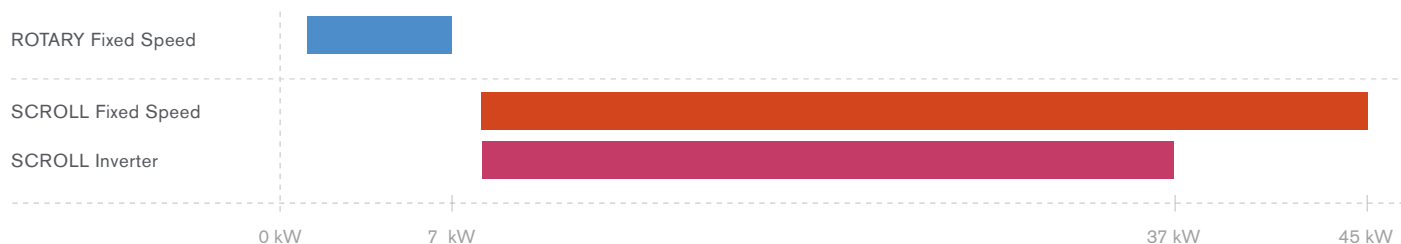
SCROLL: $T_{ev} 7,2^{\circ}\text{C}$ - $T_{con} 54,4^{\circ}\text{C}$ - 20Hz rps min / 80Hz max for Inverter range

R407C Solutions

GWP=1.774

R407C

May be used as safety
exception refrigerant



ROTARY: $T_{ev} 7,2^{\circ}\text{C}$ $T_{cond} 54,4^{\circ}\text{C}$

SCROLL: $T_{ev} 7,2^{\circ}\text{C}$ - $T_{con} 54,4^{\circ}\text{C}$ - 15 rps min/120 rps max for Inverter range

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

0 kW

4 kW

5,5 kW

8 kW

12 kW

16 kW

20 kW

30 kW

kW – electrical power supplied to Inverter



We support you in identifying
the most suitable Inverter Drive
for your application

Over 15 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.



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.

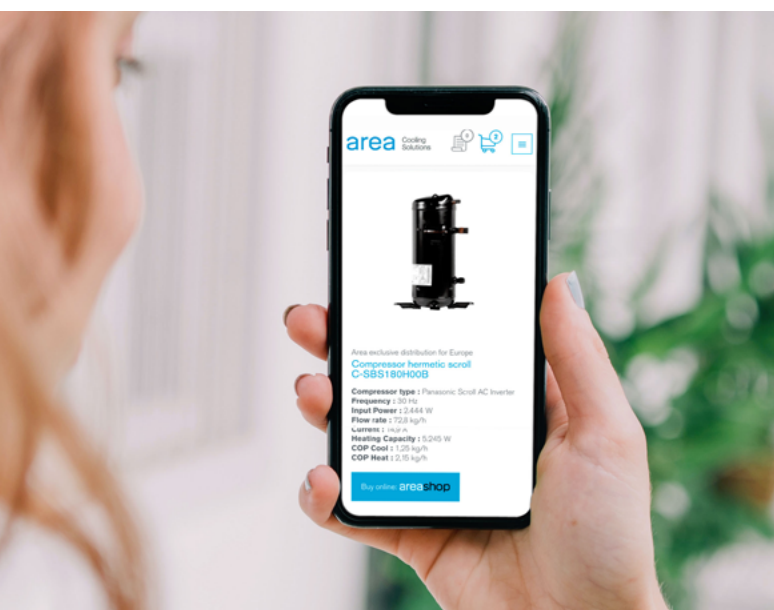
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Easy online selection with our Calculation software

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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