



## PRECISELY MATCHED COMPRESSORS

- + HFC, A2L & NATURAL REFRIGERANT OPTIONS
- + HIGH-EFFICIENCY MODELS AVAILABLE
- + PERFORMANCE BASED ON YOUR APPLICATION
- + VOLTAGE & MOTOR TYPES FOR OVERSEAS MARKETS

**SECOP**

**embraco**  
*Nidec*

EXPERT ADVICE ON ALL RELEVANT FACTORS INFLUENCING  
YOUR PRODUCT DESIGN TO ENSURE AN ACCURATE SPECIFICATION

**hawco**

With a further move away from high-GWP refrigerants coming into force in 2022, manufacturers are having to consider new alternatives in their selection of commercial refrigeration compressors.

Making a choice between **HFC**, **A2L** and **natural refrigerants** depends heavily on the application itself and the environmental legislation which applies to it. However, design engineers also need to consider other factors including **physical size**, **energy efficiency**, **safety**, **cooling performance** and **cost**.

That's why we offer **technical support** to assist you with your application design, providing detailed information to help you make an informed assessment of all the relevant criteria.



### REFRIGERANT OPTIONS

Full assistance in assessing the best refrigerant for both your application & production process

- Full range of HBP & LBP compressors for R290, R452A, R134A and R448A/R449A
- Vast choice of models to suit preferred size, connections, voltage (AC or DC) & motor type
- Expert advice on compatible line components



### ENERGY EFFICIENCY

Compressor specification closely matched to each application to optimise energy ratings

- Cooling capacity from as little as 37 w LBP (250 w HBP) up to 1.5 kW LBP (3.6 kW HBP)
- Highly-efficient fixed speed compressors
- Variable speed compressors with inverter drives deliver even greater energy savings



### SPECIALIST APPLICATIONS

Additional options available for medical and transport refrigeration

- R600 compressors suitable for small medical applications like blood bank fridges
- Limited selection of A2L compressors using R1234yf refrigerant
- Compressors for battery-driven or DC-powered mobile cooling



### FLEXIBLE SUPPLY

Trusted R&D and production methods ensure compressor reliability and availability

- Most popular models available for next-day delivery in small quantities.
- Consignment agreements available for larger or multiple stock orders
- VDE, CE, UL and RoHS certification on request

## Fixed Speed AC Compressors

30w to 3.2 kW (LBP) | 297w to 1.86 kW (MBP & HBP)

**TL Series**



R290, R134A & R600A

**FR Series**



R134A

**SC Series**



R290, R134A, R452A & R407C

**SECOP**

## Also Available



DC Compressors



Variable Speed



Higher Capacity up to 2 1/4 HP



## Fixed Speed AC Compressors

28w to 2.86 kW (LBP) | 32 to 3.59 kW (MBP & HBP)

**EM Series**



**NE Series**



**NT Series**



**NJ Series**



R290, R134A, R452A, R448A & R449A & R452A  
EM series also compatible with R600A & R1234yf

**embraco**  
**Nidec**

## F-Gas Regulations from 2022

From January 2022, all **hermetically-sealed** refrigeration systems, like integral display cases, are required to use a **refrigerant of 150 GWP or lower**. Most major manufacturers are adopting the natural refrigerant R290 as the best option although a few are adopting an ultra-low GWP HFO, such as R-1234yf.

**Split and pack systems** must use a **refrigerant with a GWP of 2500 or less**. The appropriate choice of refrigerants (including R452A, R448A, R449A & R134A) depends on customer specific factors. R290 is also a viable option depending on the size of the application.

## Typical Applications



Bottle Coolers



Medical Fridges



Commercial Freezers



Commercial Chillers



Ice Machines

FOR FULL PRODUCT SPECIFICATIONS, SEARCH ONLINE FOR 'HAWCO COMPRESSORS'

## Fixed Speed AC Series At a Glance

### R452A

SERIES	HP	DISPLACEMENT	COOLING CAPACITY (W)		
			LBP	MBP	HBP
<b>embraco</b> <i>Nidec</i>			@ -35°C evap (EN12900)	@ -10°C evap (EN12900)	@ 5°C evap (EN12900)
EM	1/4... 1/2	3.97... 6.76	125... 2859`	363... 7167	N/A
NE	1/4... 1	4.51... 16.8	125... 533	533... 1148	N/A
NT	1/3... 1 1/2	12.55... 27.8	345... 872	897... 2761	N/A
NJ	1... 2	21.71... 37.88	643... 834	1648... 2428	N/A
<b>SECOPI</b>			@ -35°C evap (EN12900)	@ -10°C evap (EN12900)	@ 5°C evap (EN12900)
TL		3.86	101	N/A	N/A
FR		6.23... 7.95	154... 186	N/A	N/A
SC		10.29... 41.9	214... 1018	806... 2821	1208... 3695

### R134A

SERIES	HP	DISPLACEMENT	COOLING CAPACITY (W)		
			LBP	MBP	HBP
<b>embraco</b> <i>Nidec</i>			@ -35°C evap (EN12900)	@ -10°C evap (EN12900)	@ 5°C evap (EN12900)
EM	1/20... 1	1.98... 9.87	28... 276	32... 276	40... 883
NE	1/10... 3/4	7.28... 16.8	103... 266	187	627... 1672
NT	1/2... 1 1/4	17.39... 27.8	N/A	N/A	1403... 3286
NJ	1... 1 1/4	26.11... 34.38	N/A	N/A	2327... 3203
<b>SECOPI</b>			@ -35°C evap (EN12900)	@ -10°C evap (EN12900)	@ 5°C evap (EN12900)
TL		2.61... 6.49	30... 91	164... 200	297... 351
FR		6.23... 11.15	57... 92	302... 345	554... 633
SC		10.29... 41.9	795... 3240	407... 1864	71... 455

### R290

SERIES	HP	DISPLACEMENT	COOLING CAPACITY (W)		
			LBP	MBP	HBP
<b>embraco</b> <i>Nidec</i>			@ -35°C evap (EN12900)	@ -10°C evap (EN12900)	@ 5°C evap (EN12900)
EM	1/6... 1	3... 9.5	85... 547	85... 628	N/A
NE	1/4... 1	5.44... 18.7	143... 1046	548... 1042	647... 739
NT	1/2... 1 1/4	14.5... 27.8	408... 716	951... 3592	N/A
<b>SECOPI</b>			@ -35°C evap (EN12900)	@ -10°C evap (EN12900)	@ 5°C evap (EN12900)
TL		3.13... 5.08	60... 116	192... 345	N/A
SC		10.29... 20.95	173... 546	634... 1572	N/A

For details of any compressor, including A2L and R600 compressors, variable speed, 115V and DC models, contact us.

## GOT A PROJECT IN MIND? WE CAN HELP

Hawco is an international distributor of components for refrigeration and temperature control, with access to 26,000 parts from over 250 quality manufacturers and over 40 years' experience.

We advise OEMs across Europe and worldwide on the selection of their specialist items. Using our technical expertise, we help our customers cut production times, reduce costs and improve environmental performance.



REQUEST A TEST SAMPLE  
FOR YOUR PRODUCT DESIGN



ARRANGE A MEETING  
WITH A TECHNICAL EXPERT



SEND US YOUR  
PROJECT SCOPE



TO DISCUSS YOUR NEXT PROJECT,  
TALK TO OUR EXPERT TEAM

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