

# Embraco Scroll



Air Conditioning  
application for  
replacement

# Air Conditioning portfolio for replacement

- High capacity and efficiency scroll range



# Main Applications





- Packaged systems (rooftop)



- Residential A/C for central ducted systems



# Main product benefits

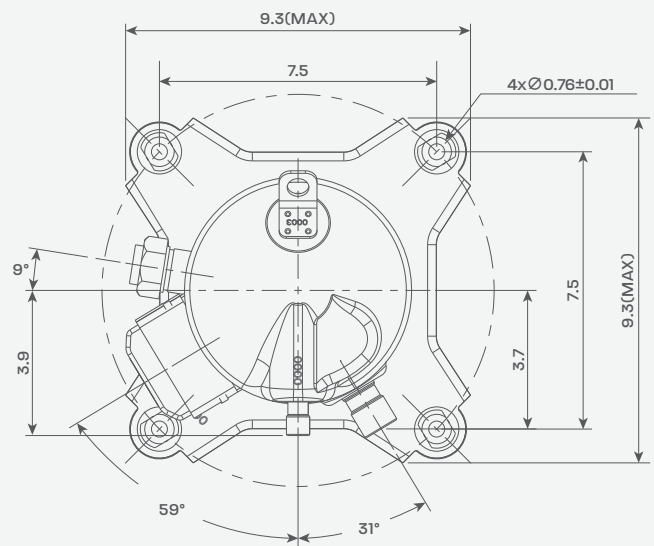
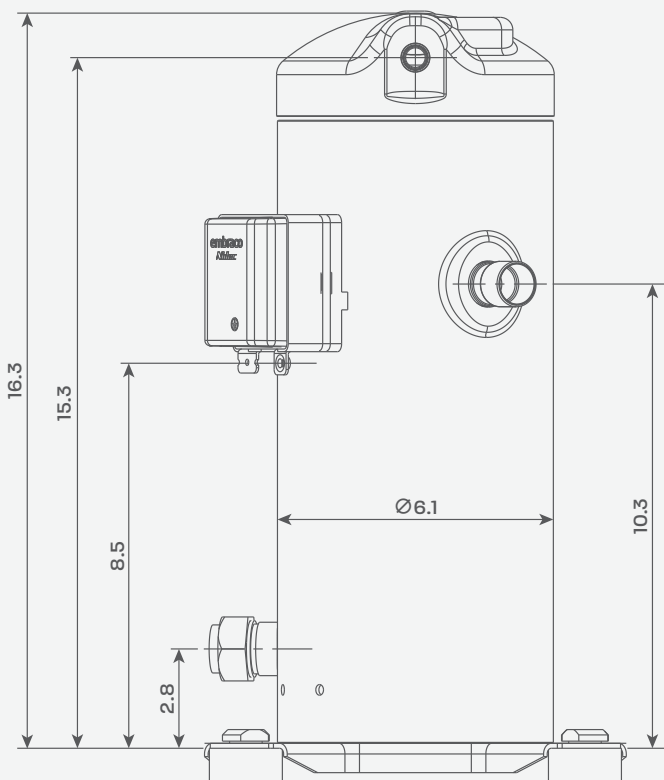
	<p><b>Wide range:</b> from 1.5 to 5 ton, for Residential Air Conditioning</p>
	<p><b>UL Certified:</b> ready for sales in the USA</p>
	<p><b>Portfolio availability:</b> different refrigerants R410A, R454B &amp; R22 and other voltages coming soon</p>
	<p><b>Easy replacement of main competitors:</b> capacity range, and service kits to minimize effort to replace Copeland and LG.</p>

# Portfolio

Refrigerants	Power Source	Embraco Model	Ton	Displacement (cc/Rev.)	Capacity (BTU/h)	EER (BTU/H/W)	Copeland	LG
R410A	208-230V 60Hz 1~	EA22H-C1	1.7	21.6	22,428	8.97	ZP21K5E-PFV	APA024KA
		EA25H-C1	2	25.0	25,165	9.11	ZP25K5E-PFV	APA026KA
		EA32H-C1	2.6	30.5	30,426	9.18	ZP29K5E-PFV	APA032KA
		EA36H-C1	3	34.8	37,104	10.13	ZP34K5E-PFV	APA036KA
		EA42H-C1	3.5	40.1	43,051	10.27	ZP39K5E-PFV	APA042KA
		EA49H-C1	4	45.8	49,200	10.37	ZP49K5E-PFV	APA049KA
		EA54H-C1	4.5	50.0	54,158	10.24	ZP51K5E-PFV	APA054KA
		EA61H-C1	5	57.5	61,869	10.27	ZP61K5E-PFV	N/A

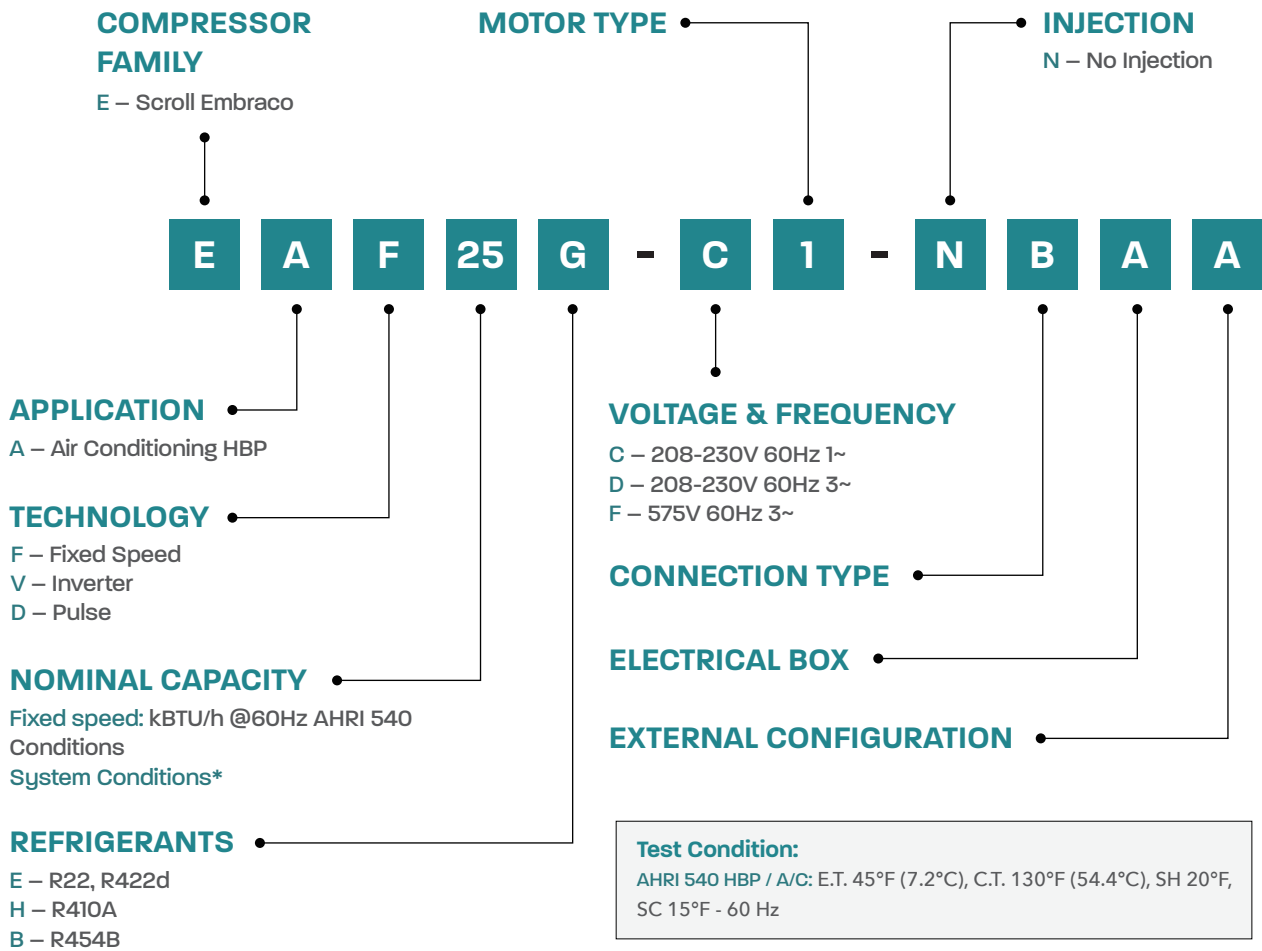
\*Replacements based on +/- 10% actual capacity

# Drawing

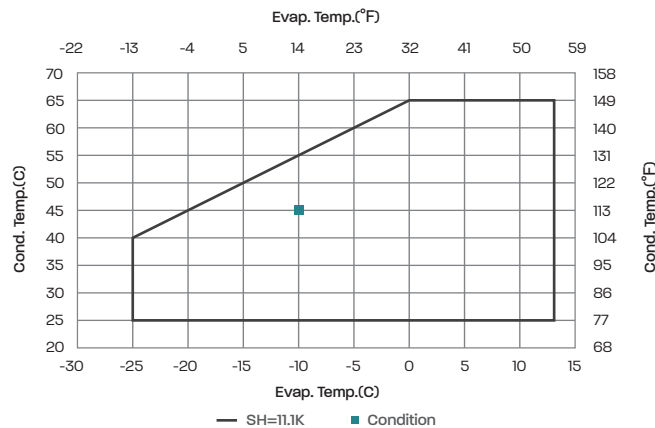


BRAZING	I.D.mm	MATERIAL
S-SUCTION	0.88±0.01	COPPER PLATED STEEL
D-DISCHARGE	0.50±0.01	COPPER PLATED STEEL

# Embraco Scroll Nomenclature



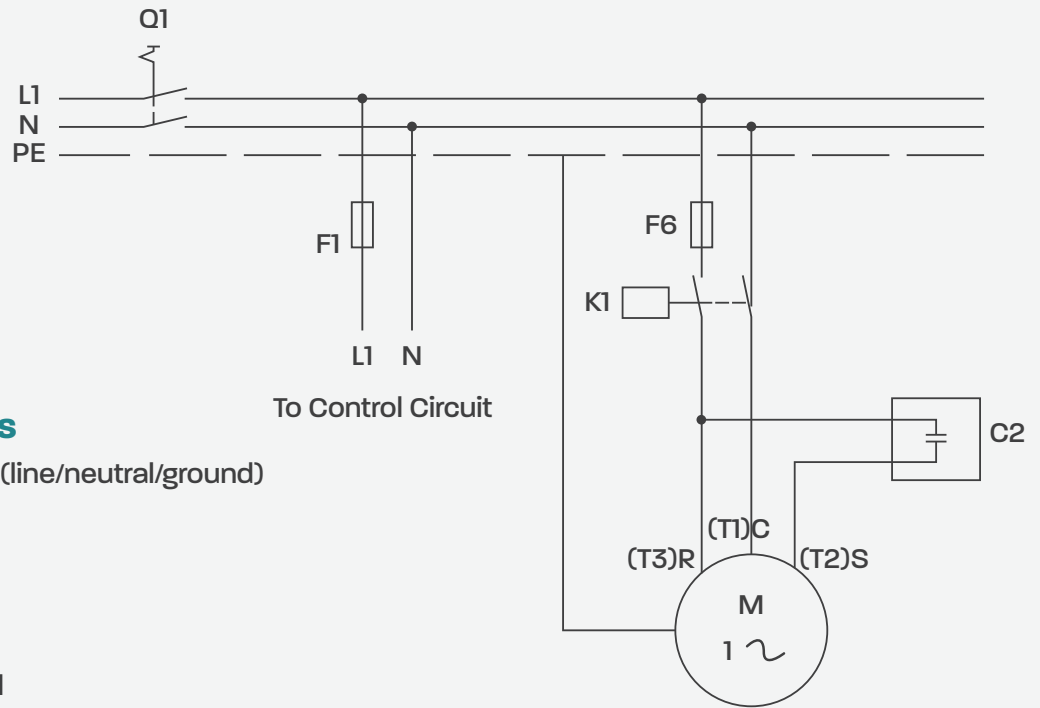
## Envelope



# Electrical Diagram



Access our technical documents



## Electrical Schematics

L1/N/PE: Single Phase Lines (line/neutral/ground)

Q1: Manual Switch

F1/F6: Fuse



K1: Compressor Contactor

C1: Run Capacitor

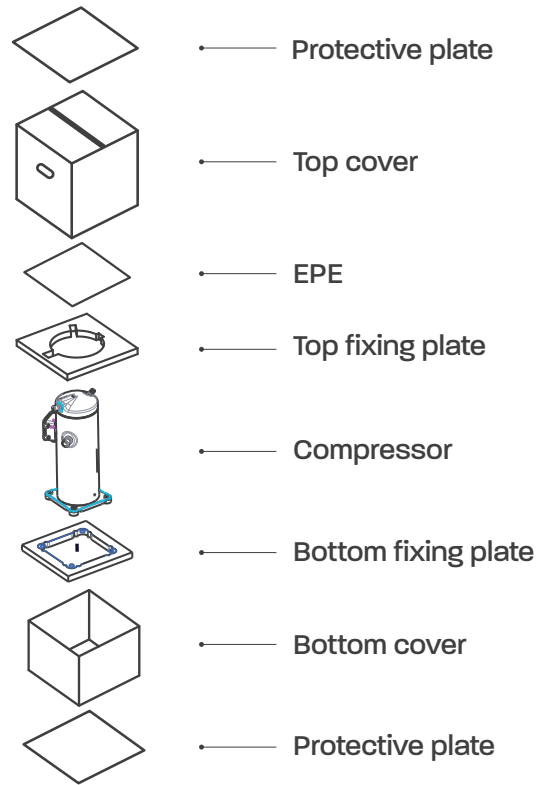
M: Compressor Motor

R/C/S: Compressor Terminal

## Spare Parts - supplied with compressor

Part Name	Qty	Picture
E-box	1	
T terminal	1	
Grommets	4	
Sleeves	4	
Crankcase heater	1	
Re-pipe kit	1*	

# Packaging - Single box



Single box packing

Frame	Pallet qty	Dimensions	qty/container 20ft
Frame 1	150	44.1 x 4.1 x 22.4 in	270

# Compressor Label

**MODEL:**

**SERIAL:**

THERMALLY PROTECTED | MADE IN CHINA  
Nidec Global Appliance

REFRIGERANT	OIL TYPE	OIL CHARGE	VOLTAGE	PH	FREQUENCY	DISPLACEMENT	RUN CAP.	LRA	RLA	I-OPER MAX

Chamber	LP side	HP side
PED Module/Category		
PS		
TS max		
TS min		

**WARNING**

Service should be performed by trained personnel only. Failure to follow these safety warnings could result in serious injury or death. **ELECTRICAL SHOCK HAZARD.** Turn off power before servicing. Discharge all capacitors. Use this equipment in a grounded system only. Wear protective goggles. System contains oil and refrigerant under pressure. Remove pressure from both high and low side before removing compressor. Use tubing cutter to remove compressor. Do not use torch. Refer to applicable system wiring diagram. Replace terminal cover, if applicable, before applying power.

**CAUTION**

Use only approved refrigerants and lubricants and electrical components in the manner approved by the Manufacturer. For details contact manufacturer. Any others may be dangerous, and could cause fires, explosions, or electrical shorting.



**embraco**  
***Nidec***