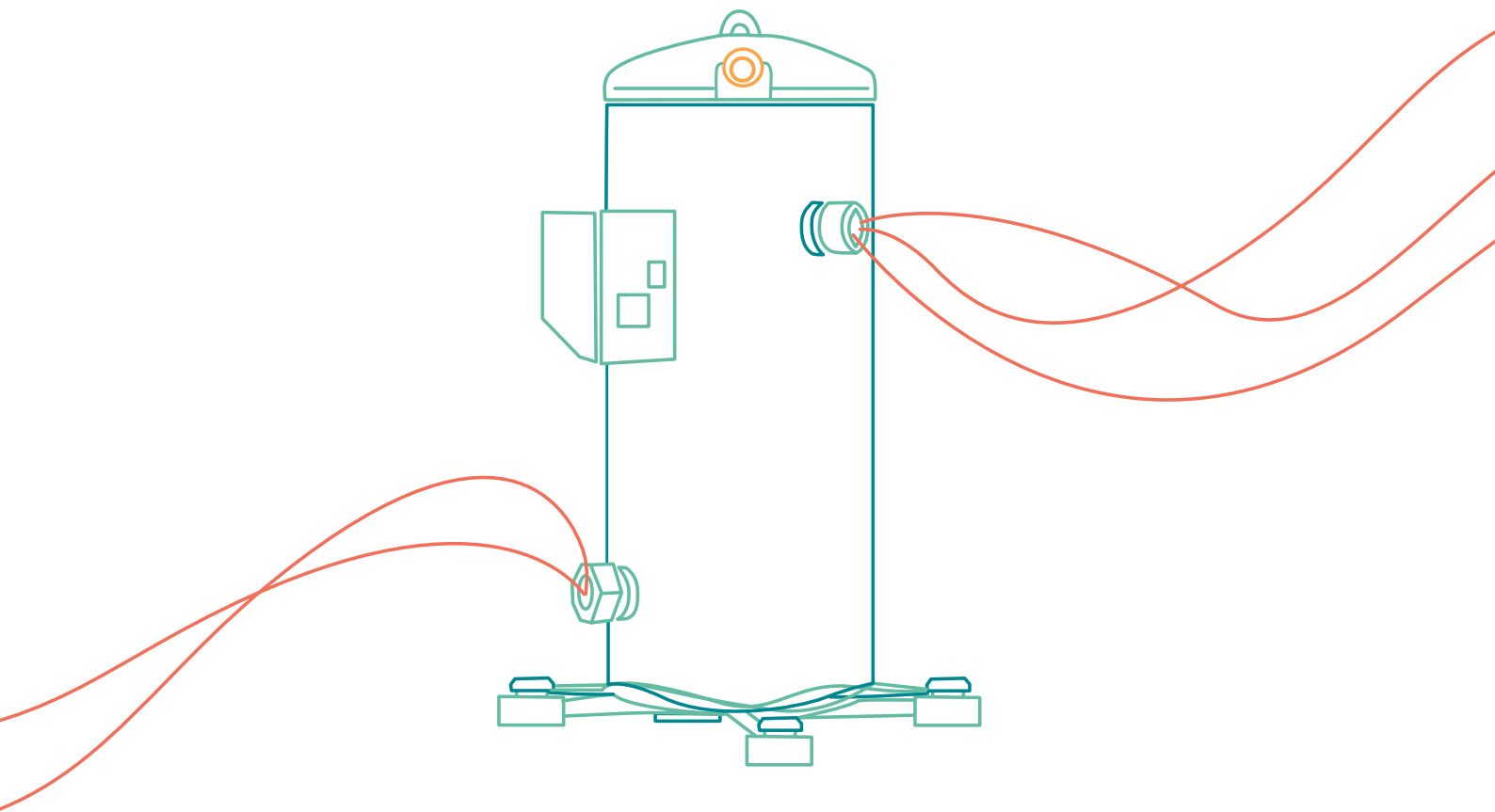


# SCROLL COMPRESSORS

COMMERCIAL REFRIGERATION

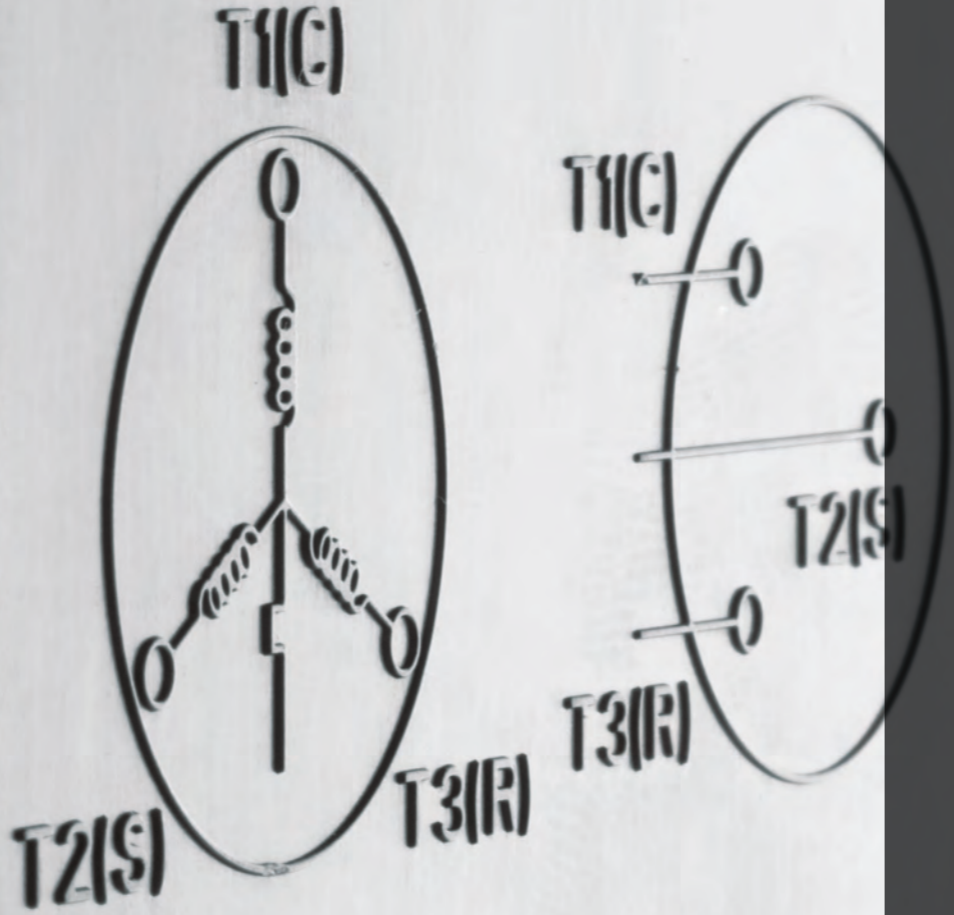


Multi-Refrigerant Platform

● R134a ● R404A

● R449A ● R452A

embraco



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**EMBRACO is a global cooling specialist and leader in the refrigeration market,** aiming to combine technology and services, engineered around customers' needs.

**Our mission is to provide innovative solutions for a better quality of life.** We are passionate about technology and constantly investing in new developments, energy efficiency improvements, sustainability of our products and processes, combined with premium quality, operational excellence, and business knowledge to support our customers to reach their goals and even exceed the most restrictive international standards.

**What makes the difference when you choose Embraco?**

Thanks to our wide range of products combining hermetic and scroll compressors, condensing units and electronics, we can provide ultimate solutions for Household, Light Commercial and Aftermarket segments.

Our global footprint, with factories and offices located in Brasil, China, Italy, Mexico, Russia, Slovakia and United States, assures premium service level and runs flexible business in more than 80 Countries all over the world.

Our 500 professionals in R&D, laboratories and tech centers in 4 continents assure a constant focus and wide experience to support customers in the development of their solution.

-  More than 11,500 employees
-  More than 400 professionals in R&D
-  Production capacity of over 38 million compressors per year
-  More than 500 million products produced to date
-  More than 1,200 patents worldwide
-  Business conducted in more than 80 countries
-  R&D laboratories on 4 continents

**embraco**  
transforming insights into great cooling experiences

**REFRIGERATION SCROLL FROM EMBRACO**

Embraco offers a full range of hermetic compressors for refrigeration from fractional HP up to 1,5 HP with a long experience in developing innovative solutions for commercial and professional refrigeration. With the **new range of scroll compressors for refrigeration Embraco complete the product range** for commercial and professional applications with a range of scroll compressors **from 2HP up to 13HP**. With the standard reciprocating range and the new scroll range Embraco is able to satisfy the most common applications, from small installations to bigger ones, in commercial and professional refrigeration market.



• High Efficiency



• Long Terms Reliability



• Multi-Refrigerant Platform: R404A, R134a, R449A/R452A\*



• Robust and Reliable Technology proven for commercial applications



• Silent Operation

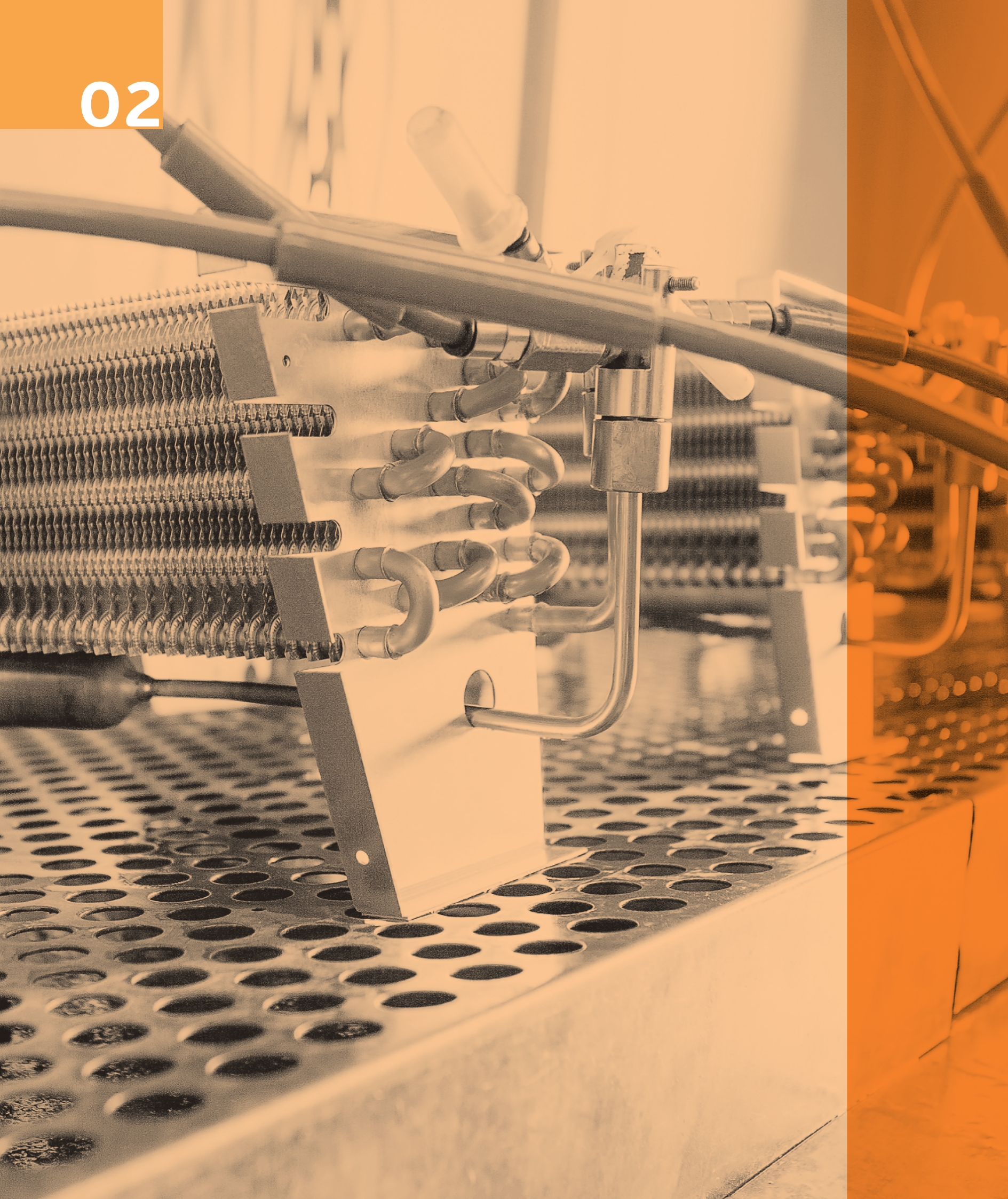


\* Data and performance in R452A and R449A available in product selector

02

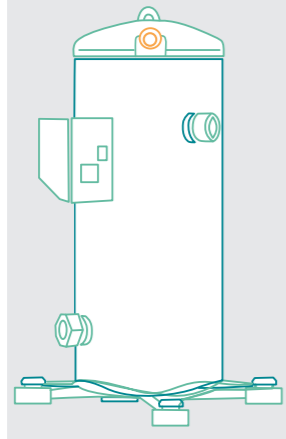
hawco<sup>o</sup>

## OUR SCROLL PRODUCTS



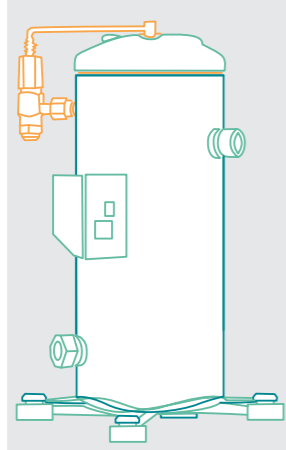
## SCROLL COMPRESSOR MAIN FEATURES

### MBP



- Various models to meet refrigeration capacity needs
- Optimized for medium temperature applications
- Able to run at -30° C evaporating temperature without injection solutions

### LBP



- Easy to use Liquid Injection with DTC valve
- Optimized for low temperature applications with discharge temperature management
- Able to work down to -40°C evaporating temperature

#### OPTIMIZED NOISE LEVEL

- Built-in sound insulation to minimize running noise.
- Running sound optimization with careful design of internal loads and sealings.

#### OPTIMIZED DESIGN

- Optimized footprint with compact design and light weight if compared to semi-hermetic solutions.
- Tubes and connections compatible with most popular scroll installations.
- Multi-Refrigerant Platform: R404A, R134a, R452A, R449A.
- Safe and easy electrical connections.
- Robust consolidated scroll design. Less moving parts than reciprocating solutions.

#### HIGH RELIABILITY

- Radial and Axial adaptability
- Internal high pressure release valve.
- Internal overload protection.

#### EXCELLENT PERFORMANCE

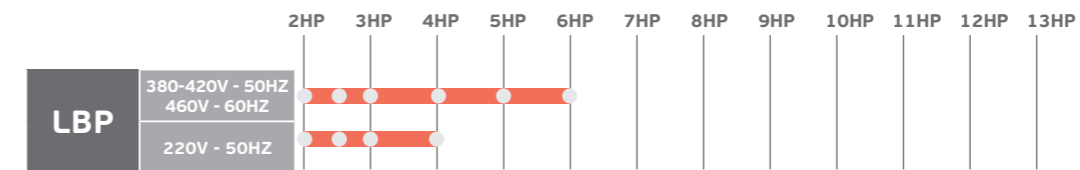
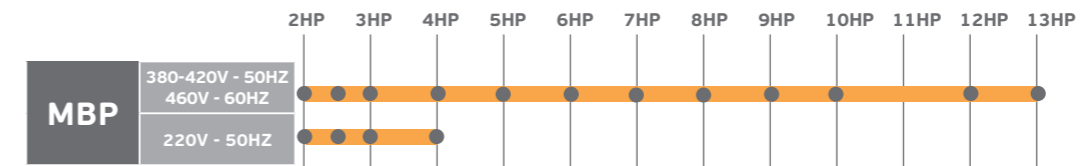
- Large application envelope.
- Optimal discharge temperature management.
- Optimum operation envelope.
- High efficiency motor design.
- Engineered to run at low evaporating temperature without injection.
- High COP performance.

#### STANDARD FOOTPRINT AND CONNECTIONS

- Tubes and connections compatible with most popular scroll installations.
- Versatile connections, available Rotalock or Soldering options.
- Oil Sight Glass built-in, removable for oil equalization.

## COMMERCIAL REFRIGERATION RANGE FROM 2HP TO 13HP

(R404A range 1~/50Hz - 3~)



### 3 ~ 380 - 420V 50Hz / 460V 60Hz

MODEL	HP	DISPLACEMENT cm <sup>3</sup> /REV	DISPLACEMENT m <sup>3</sup> /h	COOLING CAPACITY (W)	COP (W/W)
SE6015GS-O	2	33,3	5,8	3567	1,93
SE6018GS-O	2,5	42	7,3	4259	2,04
SE6021GS-O	3	46,6	8,1	4850	2,09
SE6030GS-O	4	67,8	11,8	6934	2,16
SE6036GS-O	5	83,3	14,5	8517	2,2
SE6043GS-O	6	98,3	17,1	10120	2,2
SE6053GS-O	7	115,5	20,1	12264	2,2
SE6056GS-O	8	123	21,4	12919	2,2
SE6067GS-O	9	145,4	25,3	15874	2,2
SE6078GS-O	10	167,2	29,1	17892	2,2
SE6085GS-O	12	189,1	32,9	19575	2,22
SE6089GS-O	13	197,1	34,3	20585	2,22

### 1 ~ 220V 50Hz

MODEL	HP	DISPLACEMENT cm <sup>3</sup> /REV	DISPLACEMENT m <sup>3</sup> /h	COOLING CAPACITY (W)	COP (W/W)
SE6015GK-C	2	33,3	5,8	3567	1,89
SE6018GK-C	2,5	42	7,3	4259	1,94
SE6021GK-C	3	46,6	8,1	4850	1,98
SE6030GK-C	4	67,8	11,8	6934	2,11

Test conditions EN12900 Te -10°C; Tc 45°C; Rgt 20°C; No subcooling; Ta 35°C 220V/50Hz

### 3 ~ 380 - 420V 50Hz / 460V 60Hz

MODEL	HP	DISPLACEMENT cm <sup>3</sup> /REV	DISPLACEMENT m <sup>3</sup> /h	COOLING CAPACITY (W)	COP (W/W)
SE2006GS-O	2	33,3	5,8	1289	1,1
SE2008GS-O	2,5	42	7,3	1646	1,11
SE2010GS-O	3	46,6	8,1	1933	1,12
SE2014GS-O	4	67,8	11,8	2925	1,23
SE2017GS-O	5	83,3	14,5	3470	1,26
SE2020GS-O	6	98,3	17,1	4065	1,27

### 1 ~ 220V 50Hz

MODEL	HP	DISPLACEMENT cm <sup>3</sup> /REV	DISPLACEMENT m <sup>3</sup> /h	COOLING CAPACITY (W)	COP (W/W)
SE2006GK-C	2	33,3	5,8	1289	1,08
SE2008GK-C	2,5	42	7,3	1646	1,09
SE2010GK-C	3	46,6	8,1	1933	1,09
SE2014GK-C	4	67,8	11,8	2925	1,2

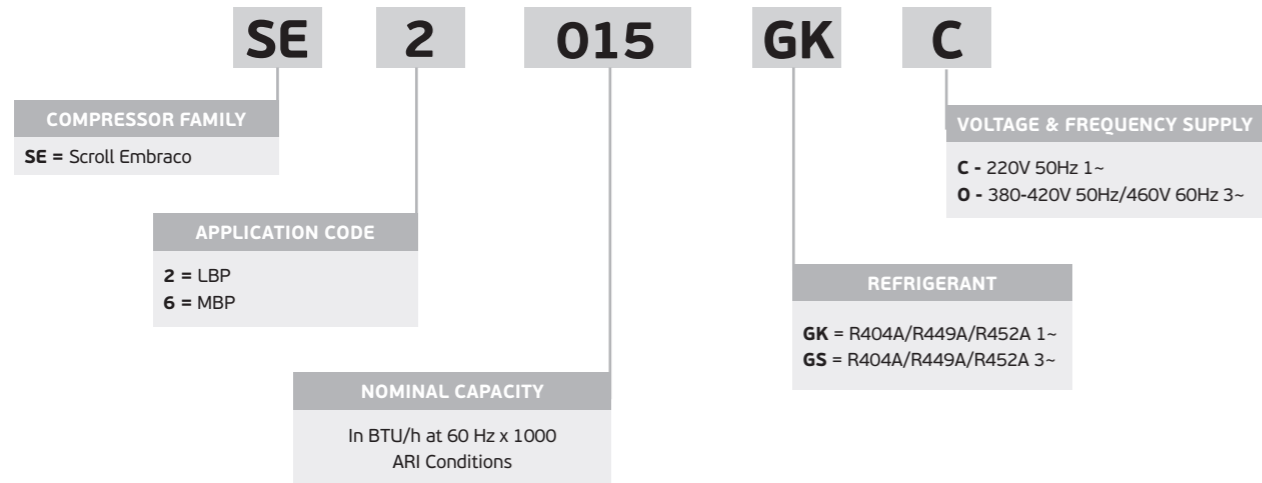
Test conditions EN12900 Te -35°C; Tc 40°C; Rgt 20°C; No subcooling; Ta 35°C 380V/50Hz



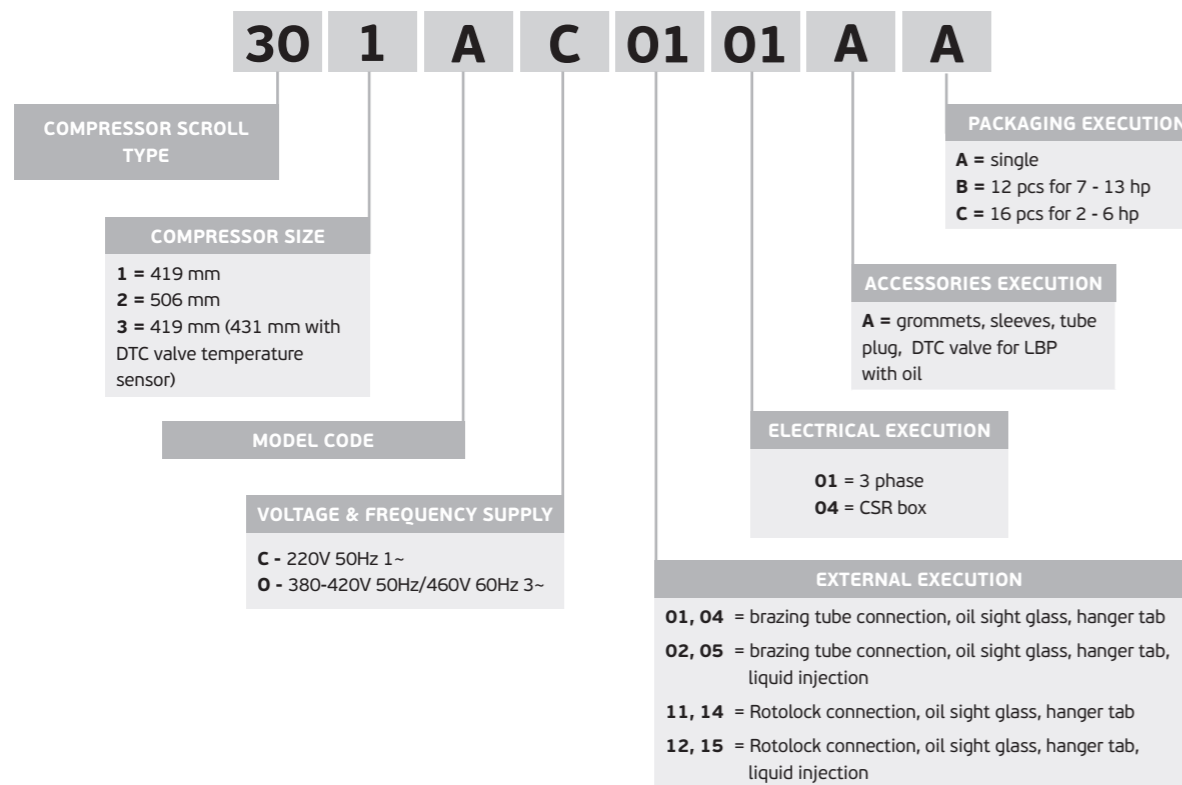
# PRODUCT INFORMATION

## NOMENCLATURE

### MODEL DESCRIPTION

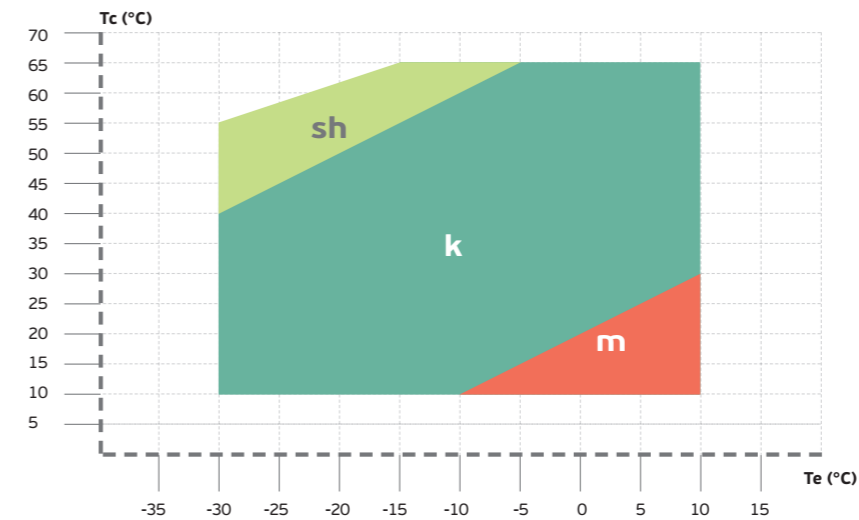


### COMPRESSOR BILL OF MATERIAL

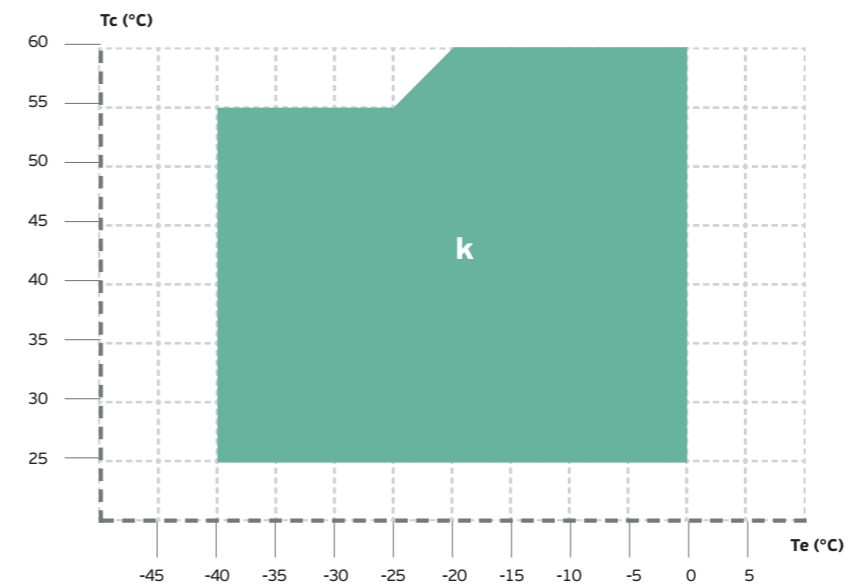


## OPERATING ENVELOPE

### MBP - R404A



### LBP - R404A



**Tc:** Condensing Temperature °C

**Te:** Evaporating Temperature °C

**k:** Operating condition, Ambient 35°C, return gas temperature 20°C

**m:** Transient condition Ambient 35°C, return gas temperature 20°C

**sh:** Superheat 11,1k

**Note:** Usage of compressors outside of the intended operating envelope, can not make use of warranty, or should be consulted with Technical Support.

## ELECTRICAL MOTOR TYPES

TYPE OF MOTOR	PROTECTOR	STARTING DEVICE	CAPACITORS		CSR BOX
	Overload Protector	Voltage Relay	Start	Run	Recommended wire section
<b>CSR</b> Capacitive Start & Run (*)	✓	✓	✓	✓	11 AWG
<b>3-Phases (**)</b>	✓	X	X	X	X

(\*) CSR - Capacitive Start and Run - This type of connection has permanently connected run capacitor in series with start winding. Run capacitor remains connected also after the motor starts. Start capacitor is connected in series to start winding. Potential relay, calibrated for each motor, disconnects the start capacitor at the end of the start.

(\*\*) Three-phase windings with star connections.

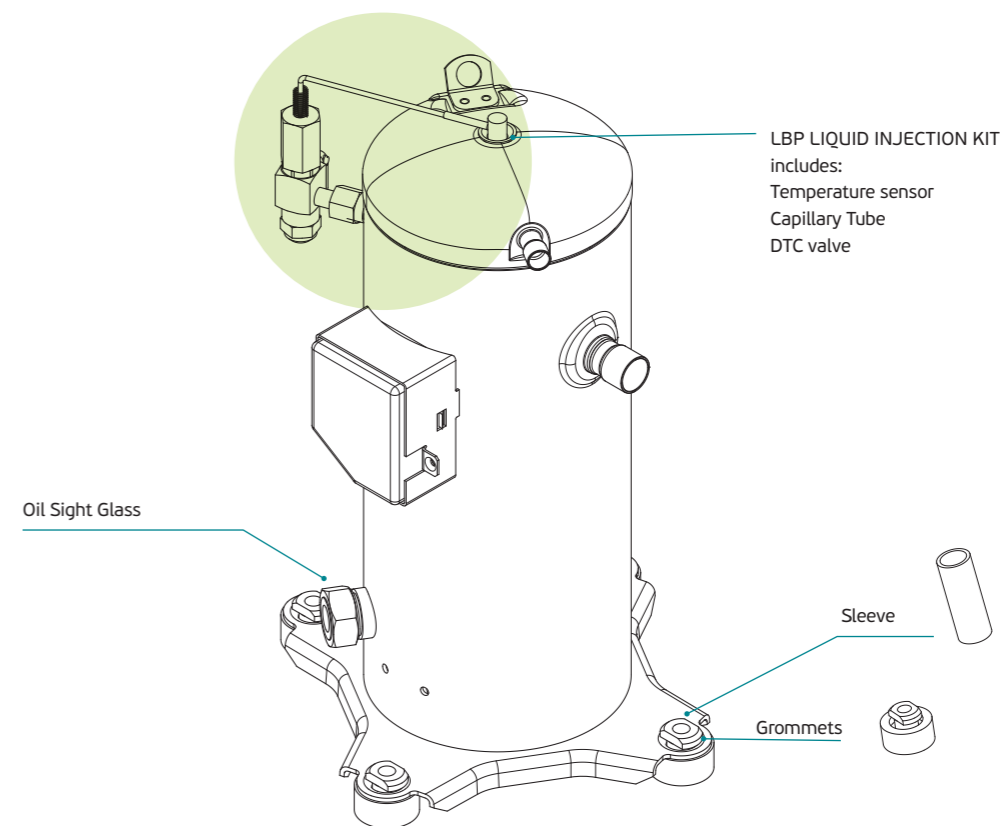
## TEST CONDITIONS

TEST CONDITIONS	APPLICATION	EVAPORATING TEMPERATURE °C	CONDENSING TEMPERATURE °C	RETURN GAS TEMPERATURE °C	SUBCOOLING	AMBIENT TEMPERATURE °C
EN 12900	LBP	-35	40	20	0	35
	MBP	-10	45			
ARI 540 (2015)	LBP	-31,6	40,6	4,4	0	35
ARI 540 (2004)	MBP	-6,7	48,9	4,4	0	35

## VOLTAGE & FREQUENCY

CODE	VOLTAGE & FREQUENCY	VOLTAGE WORKING RANGE		MINIMUM START VOLTAGE	
		50Hz	60Hz	50Hz	60Hz
<b>C</b>	220V 50Hz 1 ~	198V - 242V	-	187V	-
<b>O</b>	380-420V 50Hz / 460V 60Hz 3~	342V - 462V	414V - 506V	334V	391V

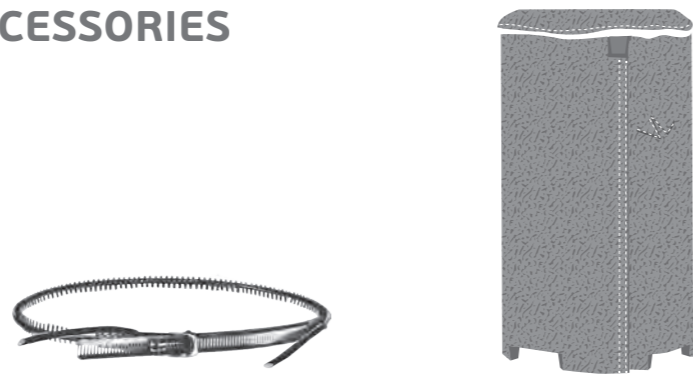
## ACCESSORIES (INCLUDED)



## ADDITIONAL CONNECTIONS

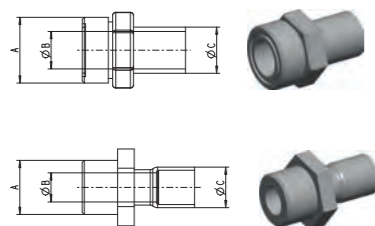
CONNECTIONS	BRAZING CONNECTION		ROTOLOCK CONNECTION	
	I.D. mm		I.D. inches	
SHELL SIZE	Suction	Discharge	Suction	Discharge
2 - 6 HP	22,35 - 22,45	12,87 - 12,97	1 1/4"	3/4"
7 -13 HP	28,83	22,47	1 3/4"	1 1/4"

## OPTIONAL ACCESSORIES



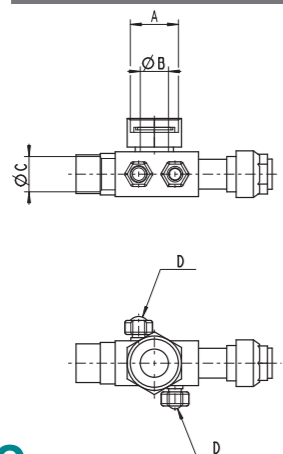
SHELL SIZE	CRANKCASE HEATER			SOUND JACKET	
	VOLTAGE (V)	NOMINAL POWER (W)	LENGTH (mm)	SOUND ATTENUATION AT 50 HZ (dBA)	SOUND JACKET THICKNESS (mm)
2 - 6 HP	220	70	490	3	12
7 - 13 HP	220	90	590	6	12

## TUBE ADAPTERS



SIZE	A	B	C
SMALL	3/4" - 16UNF 2A	14	19,5
MEDIUM	1 1/4"-12UNF 2A	18	22,2
LARGE	1 3/4"-12UNF 2A	28,5	28,6

## ROTOLOCK VALVES



SIZE	A	B	C	D
SMALL	3/4" - 16UNF 2B	Ø 11 mm	Ø 12,75 mm	1/4"SAE
MEDIUM	1 1/4"-12UNF 2B	Ø 18 mm	Ø 22,50 mm	1/4"SAE
LARGE	1 3/4"-12UN 2B	Ø 30 mm	Ø 28,70 mm	1/4"SAE

## PACKAGING



SCROLL PACKAGING				
PACKAGING TYPE	CODE	QUANTITY PER PALLET	DIMENSIONS (mm)	OBS
SINGLE PACK	A	9	330 x 330 x 450	Grommets, sleeves, tube plug, DTC valve included for LBP
MULTIPLE PACK	B	12	1100 x 1100 x 660	
	C	16	1100 x 1100 x 560	

## IDENTIFICATION LABEL

Oil type  
Oil charge  
LS/HS = pressure of the low side/high side of the compressor (in bar)

Compressor model  
Bill of Materials code  
Serial Number

Displacement  
Rated Load Amps  
Lock rotor Amps  
Phase (1 or 3)  
Frequency  
Power Supply

**embraco**  
MODEL: SE6043GS-O  
CODE: 301FO1101AA  
C1705030061

OIL	CHARGE	Max Oper Pressure	LS/HS	Thermally Protected
POE	1.4L		L2.0H32	

V/PHz	LRA (A)	RLA (A)	V (m3/h)
380-420V/50/60Hz or 460V/3P/50Hz	65	9.4	17.1

**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. All electrical 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 locking cables to remove container. Do not touch. Refer to applicable system wiring diagram. Replace terminal cover, if applicable. Insert applying cover.

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

FOR DETAILS CONTACT MANUFACTURER.



## GENERAL DATA & PERFORMANCE

### R404A - MBP - 3~ (380-420V 50HZ/460V 60HZ)

MODEL	HP	DISPL. cm <sup>3</sup> / REV	DISPL. m <sup>3</sup> / h	ARI540 (2004) TE -6,7°C; TC 48,9°C; RGT 4,4°C; NO SUBCOOLING; TA 35°C 380V/50HZ					EN12900 TE -10°C; TC 45°C; RGT 20°C; NO SUBCOOLING; TA 35°C 380V/50HZ					LRA LOCKED ROTOR AMPS (A)	MOC MAX. OPERAT. CURRENT (A)	RUN WINDING RESISTAN. (±10%) AT 25°C (Ω)	START WINDING RESISTAN. (±10%) AT 25°C (Ω)	OIL TYPE POE 32		MAX. RECOMM. REFRIG. CHARGE (kg)	DISCHAR. CONNECT. ID Ø (mm)	DISCHAR. ROTOLOCK CONNECT.	SUCTION CONNECT. ID Ø (mm)	SUCTION ROTOLOCK CONNECT.	HEIGHT (mm)	COMPR. SHELL Ø (mm)	BASE PLATE HOLE INTERAXIS (mm)	BASE PLATE MAX. DIMENS. (mm)	TOTAL WEIGHT (kg)	SIMPLE EXT. DRW	WIRING DIAGRAM	MODEL
				COOLING CAPACITY (W)	POWER INPUT (W)	COP (W/W)	RLA RATED LOAD AMPS (A)	SOUND POWER LEVEL (dBA)	COOLING CAPACITY (W)	POWER INPUT (W)	COP (W/W)	RLA RATED LOAD AMPS (A)	SOUND POWER LEVEL (dBA)					OIL INITIAL CHARGE VOLUME (L)	OIL RECHAR. VOLUME (L)													
SE60156S-O	2	33,3	5,8	3560	2034	1,75	3,5	71	3567	1851	1,93	3,2	71	22	5,2	6,7	-	1,4	1,25	2,8	12,92	3/4"-16 UNF 2A	22,4	1 1/4"-12 UNF 2A	419	168	190X190	239X239	29	MBP_2-6HP	SM31	SE60156S-O
SE60186S-O	2,5	42	7,3	4250	2297	1,85	4,8	71	4259	2091	2,04	4,7	71	45	6,4	3,3	-	1,4	1,25	3,5	12,92	3/4"-16 UNF 2A	22,4	1 1/4"-12 UNF 2A	419	168	190X190	239X239	30	MBP_2-6HP	SM31	SE60186S-O
SE60216S-O	3	46,6	8,1	4840	2547	1,9	5,1	71	4850	2318	2,09	4,9	71	45	6,9	3,3	-	1,4	1,25	3,5	12,92	3/4"-16 UNF 2A	22,4	1 1/4"-12 UNF 2A	419	168	190X190	239X239	30	MBP_2-6HP	SM31	SE60216S-O
SE60306S-O	4	67,8	11,8	6920	3530	1,96	7	73	6934	3212	2,16	6,6	73	60	10,3	2,45	-	1,4	1,25	4,5	12,92	3/4"-16 UNF 2A	22,4	1 1/4"-12 UNF 2A	419	168	190X190	239X239	31	MBP_2-6HP	SM31	SE60306S-O
SE60366S-O	5	83,3	14,5	8500	4250	2	8	73	8517	3868	2,2	7,6	73	60	12,2	2,45	-	1,4	1,25	4,5	12,92	3/4"-16 UNF 2A	22,4	1 1/4"-12 UNF 2A	419	168	190X190	239X239	31	MBP_2-6HP	SM31	SE60366S-O
SE60436S-O	6	98,3	17,1	10100	5050	2	9,4	74	10120	4596	2,2	8,6	74	65	14,3	1,9	-	1,4	1,25	5,5	12,92	3/4"-16 UNF 2A	22,4	1 1/4"-12 UNF 2A	419	168	190X190	239X239	33	MBP_2-6HP	SM31	SE60436S-O
SE60536S-O	7	115,5	20,1	12240	6120	2	11,8	75	12264	5569	2,2	11,2	75	117	17,3	1,09	-	2,7	2,6	6,5	22,47	1 1/4"-12 UNF 2A	28,83	1 3/4"-12UN	506	197	190X190	232X232	53	MBP_7-13HP	SM31	SE60536S-O
SE60566S-O	8	123	21,4	12893	6447	2	12,1	75	12919	5866	2,2	11,6	75	117	18,4	1,09	-	2,7	2,6	8	22,47	1 1/4"-12 UNF 2A	28,83	1 3/4"-12UN	506	197	190X190	232X232	53	MBP_7-13HP	SM31	SE60566S-O
SE60676S-O	9	145,4	25,3	15842	7921	2	13,6	76	15874	7208	2,2	13,1	76	117	21	1,09	-	2,7	2,6	8	22,47	1 1/4"-12 UNF 2A	28,83	1 3/4"-12UN	506	197	190X190	232X232	53	MBP_7-13HP	SM31	SE60676S-O
SE60786S-O	10	167,2	29,1	17856	8928	2	15,5	76	17892	8124	2,2	14,3	76	121	23,6	1,06	-	2,7	2,6	10,5	22,47	1 1/4"-12 UNF 2A	28,83	1 3/4"-12UN	506	197	190X190	232X232	54	MBP_7-13HP	SM31	SE60786S-O
SE60856S-O	12	189,1	32,9	19536	9671	2,02	16,3	77	19575	8801	2,22	15,2	77	121	26,5	1,06	-	2,7	2,6	10,5	22,47	1 1/4"-12 UNF 2A	28,83	1 3/4"-12UN	506	197	190X190	232X232	54	MBP_7-13HP	SM31	SE60856S-O
SE60896S-O	13	197,1	34,3	20544	10170	2,02	16,9	77	20585	9255	2,22	15,8	77	121	27,6	1,06	-	2,7	2,6	10,5	22,47	1 1/4"-12 UNF 2A	28,83	1 3/4"-12UN	506	197	190X190	232X232	54	MBP_7-13HP	SM31	SE60896S-O

### R404A - MBP - 1~ (220V 50HZ)

MODEL	HP	DISPL. cm <sup>3</sup> / REV	DISPL. m <sup>3</sup> / h	ARI540 (2004) TE -6,7°C; TC 48,9°C; RGT 4,4°C; NO SUBCOOLING; TA 35°C 220V/50HZ					EN12900 TE -10°C; TC 45°C; RGT 20°C; NO SUBCOOLING; TA 35°C 220V/50HZ					LRA LOCKED ROTOR AMPS (A)	MOC MAX. OPERAT. CURRENT (A)	RUN WINDING RESISTAN. (±10%) AT 25°C (Ω)	START WINDING RESISTAN. (±10%) AT 25°C (Ω)	OIL TYPE POE 32		MAX. RECOMM. REFRIG. CHARGE (kg)	DISCHAR. CONNECT. ID Ø (mm)	DISCHAR. ROTOLOCK CONNECT.	SUCTION CONNECT. ID Ø (mm)	SUCTION ROTOLOCK CONNECT.	HEIGHT (mm)	COMPR. SHELL Ø (mm)	BASE PLATE HOLE INTERAXIS (mm)	BASE PLATE MAX. DIMENS. (mm)	TOTAL WEIGHT (kg)	SIMPLE EXT. DRW	WIRING DIAGRAM	MODEL
				COOLING CAPACITY (W)	POWER INPUT (W)	COP (W/W)	RLA RATED LOAD AMPS (A)	SOUND POWER LEVEL (dBA)	COOLING CAPACITY (W)	POWER INPUT (W)	COP (W/W)	RLA RATED LOAD AMPS (A)	SOUND POWER LEVEL (dBA)					OIL INITIAL CHARGE VOLUME (L)	OIL RECHAR. VOLUME (L)													
SE60156K-C	2	33,3	5,8	3560	1978	1,72	9,4	71	3567	1800	1,89	8,5	71	76	16,2	0,7	1,4	1,4	1,25	2,8	12,92	3/4"-16 UNF 2A	22,4	1 1/4"-12 UNF 2A	419	168	190X190	239X239	32	MBP_2-6HP	SM30	SE60156K-C
SE60186K-C	2,5	42	7,3	4250	2361	1,76	11,2	71	4259	2149	1,94	10,2	71	76	17,2	0,7	1,4	1,4	1,25	3,5	12,92	3/4"-16 UNF 2A	22,4	1 1/4"-12 UNF 2A	419	168	190X190	239X239	32	MBP_2-6HP	SM30	SE60186K-C
SE60216K-C	3	46,6	8,1	4840	2689	1,8	12,7	71	4850	2447	1,98	11,6	71	76	19	0,7	1,4	1,4	1,25	3,5	12,92	3/4"-16 UNF 2A	22,4	1 1/4"-12 UNF 2A	419	168	190X190	239X239	32	MBP_2-6HP	SM30	SE60216K-C
SE60306K-C	4	67,8	11,8	6920	3601	1,92	16,9	73	6934	3277	2,11	15,5	73	109	28,1	0,5	1,3	1,4	1,25	4,5	12,92	3/4"-16 UNF 2A	22,4	1 1/4"-12 UNF 2A	419	168	190X190	239X239	34	MBP_2-6HP	SM30	SE60306K-C

## R404A - LBP - 3~ (380-420V 50HZ/460V 60HZ)

MODEL	HP	DISPL. cm <sup>3</sup> / REV	DISPL. m <sup>3</sup> / h	ARI540 (2015) TE -31,6°C; TC 40°C; RGT 4,4°C; NO SUBCOOLING; TA 35°C 380V/50HZ					EN12900 TE -35°C; TC 40°C; RGT 20°C; NO SUBCOOLING; TA 35°C 380V/50HZ					LRA LOCKED ROTOR AMPS (A)	MOC MAX. OPERAT. CURRENT (A)	RUN WINDING RESISTAN. (±10%) AT 25°C (Ω)	START WINDING RESISTAN. (±10%) AT 25°C (Ω)	OIL TYPE POE 32		MAX. RECOMM. REFRIG. CHARGE (kg)	DISCHAR. CONNECT. ID Ø (mm)	DISCHAR. ROTOLOCK CONNECT.	SUCTION CONNECT. ID Ø (mm)	SUCTION ROTOLOCK CONNECT.	LIQUID INJECTION CONNECT. ID Ø (mm)	LIQUID INJECTION ROTOLOCK CONNECT.	HEIGHT (mm)	COMPR. SHELL Ø (mm)	BASE PLATE HOLE INTERAXIS (mm)	BASE PLATE MAX. DIMENS. (mm)	TOTAL WEIGHT (kg)	SIMPLE EXT. DRW	WIRING DIAGRAM	MODEL
				OIL INITIAL CHARGE VOLUME (L)	OIL RECHAR. VOLUME (L)	COOLING CAPACITY (W)	POWER INPUT (W)	COP (W/W)	RLA RATED LOAD AMPS (A)	SOUND POWER LEVEL (dBA)	COOLING CAPACITY (W)	POWER INPUT (W)	COP (W/W)					RLA RATED LOAD AMPS (A)	SOUND POWER LEVEL (dBA)															
SE2006GS-O	2	33,3	5,8	1386	1237	1,12	2,5	71	1289	1175	1,1	2,4	71	22	3,8	6,7	-	1,4	1,25	2,8	12,92	3/4"-16 UNF 2A	22,4	1 1/4"-12 UNF 2A	12,97	11/16"-16 UN	419	168	190X190	239X239	29	LBP_2-GHP	SM31	SE2006GS-O
SE2008GS-O	2,5	42	7,3	1770	1567	1,13	2,9	71	1646	1489	1,11	2,7	71	22	4,4	6,7	-	1,4	1,25	3,5	12,92	3/4"-16 UNF 2A	22,4	1 1/4"-12 UNF 2A	12,97	11/16"-16 UN	419	168	190X190	239X239	29	LBP_2-GHP	SM31	SE2008GS-O
SE2010GS-O	3	46,6	8,1	2079	1823	1,14	4,5	71	1933	1732	1,12	4,3	71	45	5,8	3,3	-	1,4	1,25	3,5	12,92	3/4"-16 UNF 2A	22,4	1 1/4"-12 UNF 2A	12,97	11/16"-16 UN	419	168	190X190	239X239	30	LBP_2-GHP	SM31	SE2010GS-O
SE2014GS-O	4	67,8	11,8	3145	2516	1,25	5,3	73	2925	2390	1,23	5,2	73	60	8,8	2,45	-	1,4	1,25	4,5	12,92	3/4"-16 UNF 2A	22,4	1 1/4"-12 UNF 2A	12,97	11/16"-16 UN	419	168	190X190	239X239	31	LBP_2-GHP	SM31	SE2014GS-O
SE2017GS-O	5	83,3	14,5	3730	2891	1,29	6,6	73	3470	2744	1,26	6,3	73	60	10,3	2,45	-	1,4	1,25	4,5	12,92	3/4"-16 UNF 2A	22,4	1 1/4"-12 UNF 2A	12,97	11/16"-16 UN	419	168	190X190	239X239	31	LBP_2-GHP	SM31	SE2017GS-O
SE2020GS-O	6	98,3	17,1	4371	3358	1,3	7	74	4065	3190	1,27	6,9	74	65	12,1	1,9	-	1,4	1,25	5,5	12,92	3/4"-16 UNF 2A	22,4	1 1/4"-12 UNF 2A	12,97	11/16"-16 UN	419	168	190X190	239X239	33	LBP_2-GHP	SM31	SE2020GS-O

## R404A - LBP - 1~ (220V 50HZ)

MODEL	HP	DISPL. cm <sup>3</sup> / REV	DISPL. m <sup>3</sup> / h	ARI540 (2015) TE -31,6°C; TC 40°C; RGT 4,4°C; NO SUBCOOLING; TA 35°C 220V/50HZ					EN12900 TE -35°C; TC 40°C; RGT 20°C; NO SUBCOOLING; TA 35°C 220V/50HZ					LRA LOCKED ROTOR AMPS (A)	MOC MAX. OPERAT. CURRENT (A)	RUN WINDING RESISTAN. (±10%) AT 25°C (Ω)	START WINDING RESISTAN. (±10%) AT 25°C (Ω)	OIL TYPE POE 32		MAX. RECOMM. REFRIG. CHARGE (kg)	DISCHAR. CONNECT. ID Ø (mm)	DISCHAR. ROTOLOCK CONNECT.	SUCTION CONNECT. ID Ø (mm)	SUCTION ROTOLOCK CONNECT.	LIQUID INJECTION CONNECT. ID Ø (mm)	LIQUID INJECTION ROTOLOCK CONNECT.	HEIGHT (mm)	COMPR. SHELL Ø (mm)	BASE PLATE HOLE INTERAXIS (mm)	BASE PLATE MAX. DIMENS. (mm)	TOTAL WEIGHT (kg)	SIMPLE EXT. DRW	WIRING DIAGRAM	MODEL
				OIL INITIAL CHARGE VOLUME (L)	OIL RECHAR. VOLUME (L)	COOLING CAPACITY (W)	POWER INPUT (W)	COP (W/W)	RLA RATED LOAD AMPS (A)	SOUND POWER LEVEL (dBA)	COOLING CAPACITY (W)	POWER INPUT (W)	COP (W/W)					RLA RATED LOAD AMPS (A)	SOUND POWER LEVEL (dBA)															
SE2006GK-C	2	33,3	5,8	1386	1247	1,1	6,1	71	1289	1185	1,08	5,6	71	76	13,4	0,7	1,4	1,4	1,25	2,8	12,92	3/4"-16 UNF 2A	22,4	1 1/4"-12 UNF 2A	12,97	11/16"-16 UN	419	168	190X190	239X239	32	LBP_2-GHP	SM30	SE2006GK-C
SE2008GK-C	2,5	42	7,3	1770	1599	1,11	7,8	71	1646	1519	1,09	7,2	71	76	14,2	0,7	1,4	1,4	1,25	3,5	12,92	3/4"-16 UNF 2A	22,4	1 1/4"-12 UNF 2A	12,97	11/16"-16 UN	419	168	190X190	239X239	32	LBP_2-GHP	SM30	SE2008GK-C
SE2010GK-C	3	46,6	8,1	2079	1866	1,11	9,1	71	1933	1772	1,09	8,4	71	76	16,2	0,7	1,4	1,4	1,25	3,5	12,92	3/4"-16 UNF 2A	22,4	1 1/4"-12 UNF 2A	12,97	11/16"-16 UN	419	168	190X190	239X239	32	LBP_2-GHP	SM30	SE2010GK-C
SE2014GK-C	4	67,8	11,8	3145	2569	1,22	12,5	73	2925	2441	1,2	11,6	73	109	23,3	0,5	1,3	1,4	1,25	4,5	12,92	3/4"-16 UNF 2A	22,4	1 1/4"-12 UNF 2A	12,97	11/16"-16 UN	419	168	190X190	239X239	34	LBP_2-GHP	SM30	SE2014GK-C

## R404A - MBP 1~ (Testing Voltage 220V/50Hz)

MODEL	PARAMETER	CONDENSING TEMP. (°C)	EVAPORATING TEMPERATURE (°C)								
			-30	-25	-20	-15	-10	-5	0	5	10
SE6015GK-C	COOLING CAPACITY (W)	60			1037	1585	2090	2577	3073	3603	4194
		55		955	1525	2048	2551	3060	3600	4198	4881
		50	779	1361	1893	2402	2914	3454	4049	4726	5509
		45	1128	1660	2165	2669	3200	3783	4443	5208	6104
		40	1384	1875	2363	2874	3434	4069	4806	5670	6687
		35	1569	2030	2512	3039	3639	4338	5160	6134	7284
		30	1707	2149	2635	3189	3839	4611	5531	6624	7917
	POWER INPUT (W)	60			2287	2335	2375	2411	2448	2490	2541
		55		1912	1975	2026	2071	2113	2156	2205	2265
		50	1593	1672	1736	1790	1838	1884	1932	1986	2052
		45	1416	1494	1558	1612	1661	1709	1760	1819	1890
		40	1288	1362	1424	1477	1526	1574	1627	1688	1762
		35	1194	1264	1321	1371	1418	1465	1518	1580	1655
		30	1119	1183	1235	1281	1324	1368	1419	1480	1555
SE6018GK-C	COOLING CAPACITY (W)	60			1324	2024	2669	3291	3924	4601	5356
		55		1219	1948	2616	3258	3908	4598	5362	6233
		50	995	1738	2418	3067	3721	4411	5171	6035	7036
		45	1441	2119	2764	3409	4086	4831	5674	6651	7795
		40	1767	2394	3018	3670	4385	5197	6137	7241	8540
		35	2004	2593	3208	3881	4647	5539	6590	7833	9302
		30	2181	2745	3365	4073	4903	5889	7063	8459	10111
	POWER INPUT (W)	60			2933	2994	3045	3092	3139	3192	3258
		55		2451	2532	2598	2656	2709	2765	2828	2904
		50	2043	2144	2226	2295	2357	2415	2477	2547	2632
		45	1816	1915	1997	2067	2130	2191	2257	2332	2423
		40	1651	1747	1826	1894	1956	2018	2086	2165	2259
		35	1531	1620	1694	1759	1818	1879	1946	2026	2123
		30	1435	1517	1584	1642	1697	1754	1819	1897	1994

MODEL	PARAMETER	CONDENSING TEMP. (°C)	EVAPORATING TEMPERATURE (°C)								
			-30	-25	-20	-15	-10	-5	0	5	10
SE6021GK-C	COOLING CAPACITY (W)	60			1555	2378	3135	3866	4609	5405	6291
		55		1432	2287	3073	3827	4590	5400	6298	7321
		50	1168	2041	2840	3603	4370	5181	6074	7089	8264
		45	1693	2489	3247	4004	4800	5674	6665	7812	9155
		40	2076	2812	3544	4311	5151	6104	7209	8505	10031
		35	2354	3046	3768	4559	5459	6506	7741	9201	10926
		30	2561	3224	3952	4784	5759	6917	8296	9936	11876
	POWER INPUT (W)	60			3422	3494	3554	3608	3663	3725	3802
		55		2860	2955	3032	3099	3162	3226	3300	3389
		50	2384	2502	2598	2679	2750	2818	2890	2973	3071
		45	2119	2235	2331	2412	2485	2557	2634	2722	2828
		40	1927	2039	2131	2210	2283	2355	2434	2526	2637
		35	1786	1891	1977	2052	2122	2193	2271	2364	2477
		30	1675	1770	1848	1916	1981	2047	2123	2214	2327
SE6030GK-C	COOLING CAPACITY (W)	60			2352	3597	4742	5848	6972	8176	9517
		55		2167	3460	4648	5790	6944	8170	9527	11075
		50	1768	3088	4296	5450	6611	7838	9188	10723	12501
		45	2560	3766	4912	6057	7261	8583	10082	11818	13850
		40	3140	4254	5362	6521	7792	9233	10905	12866	15175
		35	3560	4607	5699	6897	8258	9842	11710	13918	16528
		30	3874	4877	5978	7237	8712	10463	12550	15031	17965
	POWER INPUT (W)	60			4711	4810	4892	4967	5043	5129	5234
		55		3938	4068	4175	4267	4353	4442	4543	4665
		50	3282	3445	3577	3688	3786	3880	3979	4092	4228
		45	2917	3077	3209	3321	3421	3520	3626	3747	3893
		40	2653	2807	2934	3043	3143	3243	3351	3478	3630
		35	2459	2603	2722	2825	2921	3019	3127	3254	3410
		30	2306	2437	2545	2638	2727	2818	2923	3048	3204

Testing conditions: Return Gas Temperature 20°C, No subcooling Superheat 11,1 K, No subcooling

## R404A - MBP 3~ (Testing Voltage 380V/50Hz)

EMBRACO MODEL	PARAMETER	CONDENSING TEMPER. (°C)	EVAPORATING TEMPERATURE (°C)								
			-30	-25	-20	-15	-10	-5	0	5	10
SE6015GS-O	COOLING CAPACITY (W)	60			1037	1585	2090	2577	3073	3603	4194
		55		955	1525	2048	2551	3060	3600	4198	4881
		50	779	1361	1893	2402	2914	3454	4049	4726	5509
		45	1128	1660	2165	2669	3200	3783	4443	5208	6104
		40	1384	1875	2363	2874	3434	4069	4806	5670	6687
		35	1569	2030	2512	3039	3639	4338	5160	6134	7284
		30	1707	2149	2635	3189	3839	4611	5531	6624	7917
	POWER INPUT (W)	60			2269	2316	2356	2392	2428	2470	2520
		55		1896	1959	2010	2054	2096	2139	2188	2246
		50	1580	1659	1722	1776	1823	1868	1916	1971	2036
		45	1405	1482	1545	1599	1647	1695	1746	1804	1874
		40	1277	1351	1413	1465	1513	1561	1614	1674	1748
		35	1184	1253	1311	1360	1407	1454	1506	1567	1642
		30	1111	1173	1225	1270	1313	1357	1407	1468	1543
SE6018GS-O	COOLING CAPACITY (W)	60			1324	2024	2669	3291	3924	4601	5356
		55		1219	1948	2616	3258	3908	4598	5362	6233
		50	995	1738	2418	3067	3721	4411	5171	6035	7036
		45	1441	2119	2764	3409	4086	4831	5674	6651	7795
		40	1767	2394	3018	3670	4385	5197	6137	7241	8540
		35	2004	2593	3208	3881	4647	5539	6590	7833	9302
		30	2181	2745	3365	4073	4903	5889	7063	8459	10111
	POWER INPUT (W)	60			2874	2934	2984	3030	3076	3129	3193
		55		2402	2481	2546	2602	2655	2709	2771	2846
		50	2002	2101	2182	2250	2309	2367	2427	2496	2579
		45	1779	1877	1957	2025	2087	2147	2212	2286	2374
		40	1618	1712	1789	1856	1917	1978	2044	2121	2214
		35	1500	1588	1660	1723	1782	1841	1907	1985	2080
		30	1407	1487	1552	1609	1663	1719	1783	1859	1954
SE6021GS-O	COOLING CAPACITY (W)	60			1555	2378	3135	3866	4609	5405	6291
		55		1432	2287	3073	3827	4590	5400	6298	7321
		50	1168	2041	2840	3603	4370	5181	6074	7089	8264
		45	1693	2489	3247	4004	4800	5674	6665	7812	9155
		40	2076	2812	3544	4311	5151	6104	7209	8505	10031
		35	2354	3046	3768	4559	5459	6506	7741	9201	10926
		30	2561	3224	3952	4784	5759	6917	8296	9936	11876
	POWER INPUT (W)	60			3343	3413	3472	3525	3579	3640	3714
		55		2795	2887	2962	3028	3089	3152	3224	3311
		50	2329	2444	2538	2617	2687	2754	2824	2904	3000
		45	2070	2184	2277	2356	2428	2498	2573	2659	2762
		40	1882	1992	2082	2159	2230	2301	2378	2468	2576
		35	1745	1847	1932	2005	2073	2142	2219	2309	2420
		30	1637	1729	1806	1872	1935	2000	2074	2163	2273

EMBRACO MODEL	PARAMETER	CONDENSING TEMPER. (°C)	EVAPORATING TEMPERATURE (°C)								
			-30	-25	-20	-15	-10	-5	0	5	10
SE6030GS-O	COOLING CAPACITY (W)	60			2352	3597	4742	5848	6972	8176	9517
		55		2167	3460	4648	5790	6944	8170	9527	11075
		50	1768	3088	4296	5450	6611	7838	9188	10723	12501
		45	2560	3766	4912	6057	7261	8583	10082	11818	13850
		40	3140	4254	5362	6521	7792	9233	10905	12866	15175
		35	3560	4607	5699	6897	8258	9842	11710	13918	16528
		30	3874	4877	5978	7237	8712	10463	12550	15031	17965
	POWER INPUT (W)	60			4614	4711	4792	4865	4939	5023	5126
		55		3857	3984	4089	4179	4263	4350	4450	4569
		50	3214	3374	3503	3612	3708	3800	3897	4008	4141
		45	2857	3014	3143	3252	3351	3448	3551	3670	3813
		40	2598	2749	2873	2980	3078	3176	3282	3406	3555
		35	2408	2549	2666	2767	2861	2957	3062	3187	3340
		30	2259	2387	2492	2584	2670	2760	2862	2985	3137
SE6036GS-O	COOLING CAPACITY (W)	60			2791	4267	5626	6937	8271	9699	11290
		55		2571	4105	5514	6868	8237	9692	11302	13138
		50	2097	3663	5096	6466	7843	9298	10900	12721	14830
		45	3037	4468	5827	7185	8614	10182	11961	14020	16431
		40	3725	5047	6361	7736	9244	10954	12937	15263	18002
		35	4224	5466	6761	8182	9796	11676	13891	16512	19608
		30	4596	5786	7092	8585	10335	12413	14888	17831	21312
	POWER INPUT (W)	60			5298	5409	5502	5586	5671	5768	5886
		55		4429	4575	4695	4798	4895	4995	5109	5246
		50	3690	3874	4023	4147	4258	4364	4475	4602	4755
		45	3281	3461	3608	3734	3848	3959	4077	4214	4378
		40	2983	3156	3299	3422	3534	3647	3769	3911	4082
		35	2765	2927	3061	3177	3285	3395	3516	3660	3835
		30	2594	2741	2862	2967	3066	3170	3287	3428	3603
SE6043GS-O	COOLING CAPACITY (W)	60			3269	4999	6591	8127	9690	11363	13227
		55		3011	4809	6460	8046	9650	11354	13241	15392
		50	2457	4291	5970	7575	9189	10893	12770	14903	17374
		45	3559	5234	6826	8418	10091	11929	14013	16425	19249
		40	4364	5913	7452	9063	10829	12833	15156	17881	21090
		35	4948	6403	7921	9585	11477	13679	16274	19344	22972
		30	5385	6778	8309	10058	12108	14542	17442	20890	24968
	POWER INPUT (W)	60			6158	6288	6395	6493	6592	6704	6841
		55		5148	5318	5457	5577	5690	5806	5939	6098
		50	4290	4503	4676	4821	4949	5072	5202	5349	5527
		45	3813	4022	4194	4340	4472	4601	4739	4898	5088
		40	3468	3669	3835	3977	4108	4239	4381	4546	4745
		35	3214	3402	3558	3693	3818	3946	4087	4254	4457
		30	3015	3186	3326	3449	3564	3684	3820	3984	4187

Testing conditions: Return Gas Temperature 20°C, No subcooling Superheat 11,1 K, No subcooling

CONTINUE...

## R404A - MBP 3~ (Testing Voltage 380V/50Hz)

... FOLLOW

EMBRACO MODEL	PARAMETER	CONDENSING TEMPER. (°C)	EVAPORATING TEMPERATURE (°C)								
			-30	-25	-20	-15	-10	-5	0	5	10
SE6053GS-O	COOLING CAPACITY (W)	60			3962	6058	7987	9849	11743	13770	16029
		55		3650	5828	7829	9751	11695	13760	16046	18652
		50	2977	5201	7235	9180	11135	13201	15476	18061	21055
		45	4312	6343	8272	10201	12229	14456	16981	19905	23327
		40	5289	7166	9031	10983	13124	15552	18367	21669	25558
		35	5997	7760	9599	11616	13908	16577	19722	23442	27838
		30	6526	8215	10069	12189	14673	17623	21137	25315	30258
	POWER INPUT (W)	60			7462	7619	7749	7867	7987	8124	8290
		55		6237	6443	6612	6758	6894	7036	7196	7389
		50	5198	5456	5666	5841	5997	6146	6303	6482	6697
		45	4620	4874	5082	5259	5419	5575	5743	5935	6166
		40	4202	4445	4646	4819	4978	5136	5308	5508	5749
		35	3895	4123	4311	4475	4627	4781	4953	5154	5401
		30	3653	3860	4031	4179	4319	4464	4629	4828	5074
SE6056GS-O	COOLING CAPACITY (W)	60			4174	6382	8414	10375	12371	14505	16885
		55		3844	6140	8247	10272	12319	14495	16903	19649
		50	3136	5478	7621	9670	11730	13906	16302	19025	22180
		45	4543	6681	8714	10746	12883	15228	17888	20968	24573
		40	5571	7548	9513	11570	13825	16382	19348	22826	26923
		35	6317	8174	10112	12236	14651	17463	20775	24694	29325
		30	6874	8653	10607	12840	15457	18564	22266	26668	31874
	POWER INPUT (W)	60			7860	8025	8162	8287	8413	8557	8732
		55		6570	6787	6965	7118	7262	7411	7580	7783
		50	5475	5747	5968	6153	6316	6474	6639	6827	7054
		45	4867	5134	5353	5540	5708	5873	6049	6251	6494
		40	4426	4682	4894	5076	5243	5410	5591	5802	6056
		35	4102	4343	4541	4713	4873	5036	5217	5429	5689
		30	3848	4066	4246	4402	4549	4702	4876	5085	5345
SE6067GS-O	COOLING CAPACITY (W)	60			5128	7841	10338	12748	15200	17823	20747
		55		4724	7544	10133	12621	15137	17810	20769	24143
		50	3853	6732	9365	11882	14413	17086	20031	23377	27253
		45	5582	8210	10708	13204	15829	18711	21980	25764	30193
		40	6846	9275	11689	14216	16987	20129	23773	28047	33081
		35	7762	10044	12425	15035	18002	21457	25527	30343	36033
		30	8446	10633	13033	15777	18993	22810	27359	32767	39165
	POWER INPUT (W)	60			9658	9861	10030	10183	10338	10514	10730
		55		8073	8340	8558	8746	8923	9106	9314	9564
		50	6727	7061	7333	7560	7761	7955	8158	8389	8667
		45	5980	6308	6578	6807	7014	7216	7433	7681	7980
		40	5438	5753	6014	6238	6443	6648	6870	7129	7442
		35	5041	5336	5580	5792	5988	6188	6410	6671	6991
		30	4728	4996	5217	5409	5590	5778	5991	6248	6567

EMBRACO MODEL	PARAMETER	CONDENSING TEMPER. (°C)	EVAPORATING TEMPERATURE (°C)								
			-30	-25	-20	-15	-10	-5	0	5	10
SE6078GS-O	COOLING CAPACITY (W)	60			5780	8838	11652	14369	17132	20089	23385
		55		5324	8503	11422	14226	17062	20074	23409	27212
		50	4343	7587	10555	13393	16245	19258	22578	26349	30717
		45	6291	9253	12069	14883	17842	21090	24774	29040	34032
		40	7716	10454	13175	16024	19146	22688	26795	31613	37287
		35	8748	11320	14005	16946	20291	24185	28772	34200	40614
		30	9520	11984	14690	17782	21407	25710	30837	36933	44144
	POWER INPUT (W)	60			10886	11114	11304	11477	11652	11851	12093
		55		9099	9399	9646	9858	10057	10263	10497	10779
		50	7582	7959	8265	8521	8748	8965	9195	9456	9769
		45	6740	7110	7414	7672	7905	8133	8377	8658	8994
		40	6129	6485	6778	7030	7262	7493	7744	8035	8387
		35	5682	6014	6290	6528	6749	6975	7225	7519	7879
		30	5329	5631	5880	6096	6300	6512	6753	7043	7402
SE6085GS-O	COOLING CAPACITY (W)	60			6324	9669	12749	15720	18744	21979	25584
		55		5825	9303	12496	15564	18667	21962	25611	29772
		50	4752	8301	11548	14652	17773	21070	24701	28827	33607
		45	6883	10124	13204	16283	19520	23074	27105	31771	37233
		40	8442	11437	14414	17531	20947	24823	29316	34587	40794
		35	9571	12385	15322	18540	22200	26460	31479	37417	44434
		30	10416	13112	16071	19455	23421	28129	33737	40407	48296
	POWER INPUT (W)	60			11793	12040	12246	12433	12623	12838	13101
		55		9857	10183	10449	10680	10895	11119	11372	11677
		50	8214	8622	8954	9231	9477	9713	9961	10244	10583
		45	7302	7703	8032	8311	8564	8811	9075	9379	9744
		40	6640	7025	7343	7616	7867	8117	8389	8704	9086
		35	6155	6516	6814	7072	7312	7556	7827	8146	8536
		30	5773	6100	6370	6604	6825	7055	7315	7629	8019
SE6089GS-O	COOLING CAPACITY (W)	60			6650	10168	13406	16531	19711	23113	26904
		55		6126	9783	13141	16367	19630	23096	26933	31308
		50	4997	8729	12144	15408	18690	22157	25976	30315	35341
		45	7238	10646	13885	17123	20527	24264	28503	33411	39154
		40	8877	12027	15158	18435	22028	26103	30829	36371	42899
		35	10065	13024	16112	19497	23345	27825	33103	39348	46726
		30	10953	13788	16901	20459	24629	29580	35478	42492	50788
	POWER INPUT (W)	60			12401	12661	12878	13074	13274	13500	13777
		55		10366	10708	10988	11230	11457	11692	11959	12280
		50	8638	9067	9415	9707	9966	10214	10475	10772	11129
		45	7679	8100	8446	8740	9006	9266	9544	9863	10247
		40	6983	7387	7722	8009	8273	8536	8822	9153	9555
		35	6473	6852	7165	7437	7689	7946	8231	8566	8976
		30	6071	6415	6698	6945	7177	7419	7693	8023	8432

Testing conditions: Return Gas Temperature 20°C, No subcooling Superheat 11,1 K, No subcooling

## R404A - LBP 1~ (Testing Voltage 220V/50Hz)

MODEL	PARAMETER	CONDENSING TEMP. (°C)	EVAPORATING TEMPERATURE (°C)								
			-40	-35	-30	-25	-20	-15	-10	-5	0
SE2006GK-C	COOLING CAPACITY (W)	55	800	987	1217	1493	1819	2198	2634	3131	3692
		50	861	1073	1334	1645	2011	2434	2920	3470	4090
		45	930	1166	1454	1798	2201	2666	3198	3799	4474
		40	1005	1261	1574	1947	2384	2888	3463	4113	4841
		35	1079	1353	1687	2087	2555	3095	3711	4406	5183
		30	1148	1436	1790	2213	2710	3283	3936	4674	5498
	POWER INPUT (W)	55	1546	1609	1677	1750	1826	1906	1990	2076	2166
		50	1368	1432	1500	1572	1649	1728	1811	1896	1984
		45	1228	1291	1358	1430	1505	1583	1663	1747	1832
		40	1116	1178	1243	1313	1385	1460	1538	1618	1700
		35	1024	1083	1146	1211	1280	1352	1426	1501	1579
		30	942	997	1056	1117	1181	1248	1317	1387	1459
SE2008GK-C	COOLING CAPACITY (W)	55	1022	1261	1554	1906	2323	2807	3364	3998	4715
		50	1099	1371	1703	2101	2568	3109	3729	4432	5223
		45	1188	1490	1857	2296	2810	3405	4084	4852	5714
		40	1283	1610	2010	2486	3044	3688	4422	5252	6182
		35	1378	1727	2155	2665	3263	3953	4739	5626	6620
		30	1466	1834	2286	2827	3461	4193	5027	5969	7022
	POWER INPUT (W)	55	1982	2063	2150	2243	2341	2444	2551	2662	2777
		50	1754	1836	1923	2016	2114	2216	2322	2432	2544
		45	1574	1655	1742	1833	1929	2029	2133	2240	2349
		40	1431	1510	1594	1683	1776	1873	1972	2075	2180
		35	1313	1389	1469	1553	1642	1733	1828	1925	2024
		30	1207	1278	1353	1432	1515	1600	1688	1779	1870

MODEL	PARAMETER	CONDENSING TEMP. (°C)	EVAPORATING TEMPERATURE (°C)								
			-40	-35	-30	-25	-20	-15	-10	-5	0
SE2010GK-C	COOLING CAPACITY (W)	55	1200	1481	1825	2239	2728	3297	3951	4696	5538
		50	1291	1610	2001	2467	3016	3652	4380	5206	6135
		45	1396	1750	2182	2697	3301	3999	4797	5699	6712
		40	1507	1892	2361	2920	3576	4332	5195	6169	7261
		35	1619	2029	2531	3130	3833	4643	5566	6609	7775
		30	1722	2154	2685	3320	4065	4925	5905	7011	8248
	POWER INPUT (W)	55	2313	2408	2510	2618	2732	2852	2977	3107	3241
		50	2047	2142	2244	2353	2467	2586	2710	2838	2969
		45	1837	1932	2033	2140	2252	2368	2489	2614	2742
		40	1670	1762	1861	1964	2073	2185	2302	2421	2544
		35	1532	1620	1714	1813	1916	2023	2133	2247	2362
		30	1409	1492	1579	1672	1768	1868	1970	2075	2183
SE2014GK-C	COOLING CAPACITY (W)	55	1815	2240	2761	3387	4127	4987	5977	7105	8378
		50	1953	2436	3026	3733	4562	5524	6625	7875	9281
		45	2111	2647	3300	4080	4993	6049	7256	8621	10153
		40	2280	2862	3571	4418	5409	6553	7858	9332	10984
		35	2449	3069	3829	4736	5798	7023	8420	9997	11762
		30	2606	3259	4062	5022	6149	7450	8932	10605	12477
	POWER INPUT (W)	55	3184	3315	3455	3604	3762	3927	4099	4278	4461
		50	2818	2949	3090	3239	3396	3560	3731	3907	4088
		45	2529	2660	2799	2946	3100	3261	3427	3599	3775
		40	2299	2426	2562	2704	2853	3008	3169	3334	3502
		35	2109	2231	2360	2496	2638	2785	2937	3093	3252
		30	1940	2054	2175	2301	2434	2571	2713	2857	3005

Testing conditions: Return Gas Temperature 20°C, No subcooling

## R404A - LBP 3~ (Testing Voltage 380V/50Hz)

MODEL	PARAMETER	CONDENSING TEMPER. (°C)	EVAPORATING TEMPERATURE (°C)								
			-40	-35	-30	-25	-20	-15	-10	-5	0
SE2006GS-O	COOLING CAPACITY (W)	55	800	987	1217	1493	1819	2198	2634	3131	3692
		50	861	1073	1334	1645	2011	2434	2920	3470	4090
		45	930	1166	1454	1798	2201	2666	3198	3799	4474
		40	1005	1261	1574	1947	2384	2888	3463	4113	4841
		35	1079	1353	1687	2087	2555	3095	3711	4406	5183
		30	1148	1436	1790	2213	2710	3283	3936	4674	5498
	POWER INPUT (W)	55	1533	1596	1664	1735	1811	1891	1974	2060	2148
		50	1357	1420	1488	1560	1635	1714	1796	1881	1968
		45	1218	1281	1348	1418	1493	1570	1650	1733	1818
		40	1107	1168	1233	1302	1374	1449	1526	1605	1686
		35	1016	1074	1136	1202	1270	1341	1414	1489	1566
		30	934	989	1047	1108	1172	1238	1306	1376	1447
SE2008GS-O	COOLING CAPACITY (W)	55	1022	1261	1554	1906	2323	2807	3364	3998	4715
		50	1099	1371	1703	2101	2568	3109	3729	4432	5223
		45	1188	1490	1857	2296	2810	3405	4084	4852	5714
		40	1283	1610	2010	2486	3044	3688	4422	5252	6182
		35	1378	1727	2155	2665	3263	3953	4739	5626	6620
		30	1466	1834	2286	2827	3461	4193	5027	5969	7022
	POWER INPUT (W)	55	1942	2022	2107	2198	2295	2395	2500	2609	2721
		50	1719	1799	1885	1976	2072	2172	2276	2383	2493
		45	1543	1622	1707	1797	1891	1989	2090	2195	2302
		40	1402	1480	1562	1649	1740	1835	1933	2033	2136
		35	1287	1361	1439	1522	1609	1699	1791	1887	1984
		30	1183	1253	1326	1404	1485	1568	1655	1743	1833
SE2010GS-O	COOLING CAPACITY (W)	55	1200	1481	1825	2239	2728	3297	3951	4696	5538
		50	1291	1610	2001	2467	3016	3652	4380	5206	6135
		45	1396	1750	2182	2697	3301	3999	4797	5699	6712
		40	1507	1892	2361	2920	3576	4332	5195	6169	7261
		35	1619	2029	2531	3130	3833	4643	5566	6609	7775
		30	1722	2154	2685	3320	4065	4925	5905	7011	8248
	POWER INPUT (W)	55	2260	2352	2452	2558	2669	2787	2909	3035	3166
		50	1999	2093	2193	2299	2410	2526	2647	2772	2901
		45	1795	1887	1986	2090	2200	2314	2432	2554	2679
		40	1632	1722	1818	1919	2025	2135	2249	2366	2485
		35	1497	1583	1675	1771	1872	1976	2084	2195	2308
		30	1377	1457	1543	1633	1727	1825	1925	2028	2132

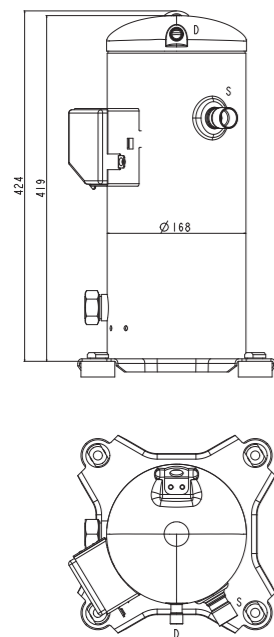
MODEL	PARAMETER	CONDENSING TEMPER. (°C)	EVAPORATING TEMPERATURE (°C)								
			-40	-35	-30	-25	-20	-15	-10	-5	0
SE2014GS-O	COOLING CAPACITY (W)	55	1815	2240	2761	3387	4127	4987	5977	7105	8378
		50	1953	2436	3026	3733	4562	5524	6625	7875	9281
		45	2111	2647	3300	4080	4993	6049	7256	8621	10153
		40	2280	2862	3571	4418	5409	6553	7858	9332	10984
		35	2449	3069	3829	4736	5798	7023	8420	9997	11762
		30	2606	3259	4062	5022	6149	7450	8932	10605	12477
	POWER INPUT (W)	55	3118	3246	3384	3530	3684	3846	4015	4189	4369
		50	2759	2888	3026	3172	3326	3487	3654	3826	4004
		45	2477	2605	2741	2885	3036	3193	3356	3524	3697
		40	2252	2376	2509	2648	2794	2946	3103	3265	3430
		35	2066	2185	2311	2444	2583	2728	2876	3029	3185
		30	1900	2011	2130	2254	2384	2518	2657	2798	2943
SE2017GS-O	COOLING CAPACITY (W)	55	2154	2657	3276	4019	4896	5917	7091	8428	9938
		50	2316	2890	3590	4428	5413	6553	7860	9342	11010
		45	2505	3140	3915	4840	5924	7177	8608	10227	12045
		40	2705	3395	4237	5241	6417	7774	9322	11071	13030
		35	2905	3641	4542	5618	6878	8332	9989	11860	13954
		30	3091	3866	4819	5958	7295	8838	10597	12581	14801
	POWER INPUT (W)	55	3581	3728	3885	4053	4230	4416	4610	4810	5017
		50	3169	3317	3475	3643	3819	4004	4195	4394	4597
		45	2844	2991	3147	3313	3486	3667	3854	4047	4245
		40	2586	2729	2881	3041	3209	3383	3563	3749	3939
		35	2372	2509	2654	2807	2966	3132	3303	3478	3657
		30	2182	2310	2445	2588	2737	2891	3050	3213	3379
SE2020GS-O	COOLING CAPACITY (W)	55	2523	3113	3837	4708	5735	6931	8307	9874	11643
		50	2714	3385	4206	5188	6341	7677	9208	10945	12898
		45	2934	3679	4587	5670	6940	8408	10085	11982	14111
		40	3169	3977	4964	6140	7517	9107	10921	12970	15265
		35	3403	4266	5321	6582	8058	9761	11703	13894	16347
		30	3621	4529	5645	6980	8546	10354	12414	14739	17340
	POWER INPUT (W)	55	4162	4333	4516	4711	4917	5133	5358	5591	5832
		50	3683	3855	4039	4234	4439	4654	4877	5107	5343
		45	3306	3476	3658	3850	4052	4262	4480	4704	4934
		40	3005	3172	3348	3535	3730	3932	4142	4358	4578
		35	2757	2916	3085	3262	3448	3640	3839	4043	4251
		30	2536	2685	2842	3008	3181	3361	3546	3735	3928

Testing conditions: Return Gas Temperature 20°C, No subcooling

## EXTERNAL VIEW & WIRING DIAGRAMS

## EXTERNAL VIEWS (\*)

### MBP\_2-6 HP

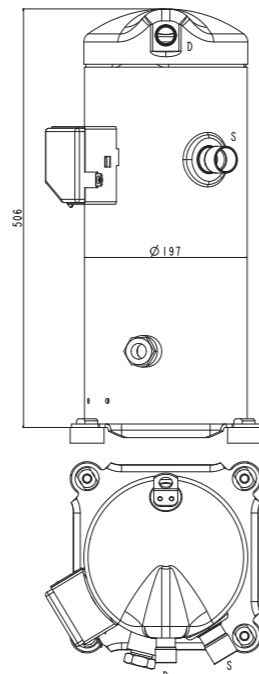


BRAZING	I.D. mm	MATERIAL
S - SUCTION	22.35-22.45	COPPER PLATED STEEL
D - DISCHARGE	12.87-12.97	COPPER PLATED STEEL

ROTOLOCK	I.D. inches	MATERIAL
S - SUCTION	1 1/4"12UNF2A	STEEL
D - DISCHARGE	3/4"16UNF2A	STEEL

### MBP\_7-13 HP

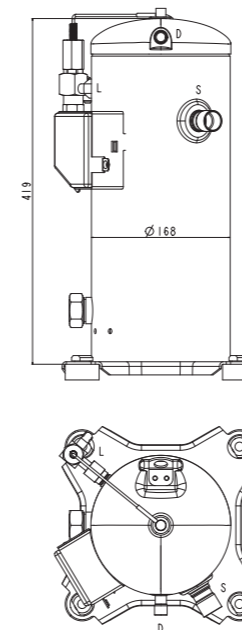


BRAZING	I.D. mm	MATERIAL
S - SUCTION	22.47	COPPER PLATED STEEL
D - DISCHARGE	22.47	COPPER PLATED STEEL

ROTOLOCK	I.D. inches	MATERIAL
S - SUCTION	1 1/4"12UNF2A	STEEL
D - DISCHARGE	1 3/4"12UN	STEEL

### LBP\_2-6 HP



BRAZING	I.D. mm	MATERIAL
S - SUCTION	22.35-22.45	COPPER PLATED STEEL
D - DISCHARGE	12.87-12.97	COPPER PLATED STEEL
L - LIQUID INJ.	3/8"	COPPER PLATED STEEL

ROTOLOCK	I.D. inches	MATERIAL
S - SUCTION	1 3/4"16UNF2A	STEEL
D - DISCHARGE	1 1/4"12UNF2A	STEEL
L - LIQUID INJ.	3/8"	STEEL

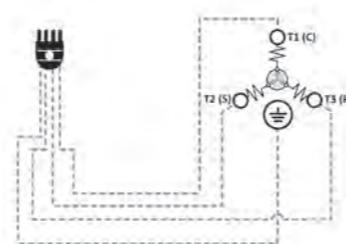
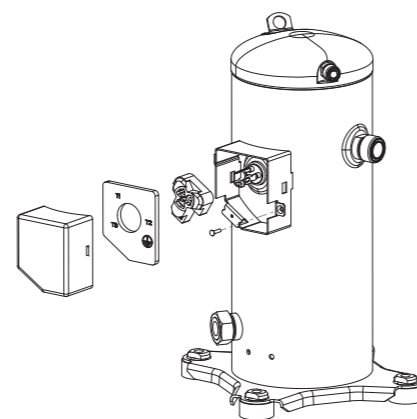
(\*) For detailed drawings refer to product selector: [www.embraco.com/scroll](http://www.embraco.com/scroll)

## WIRING DIAGRAMS

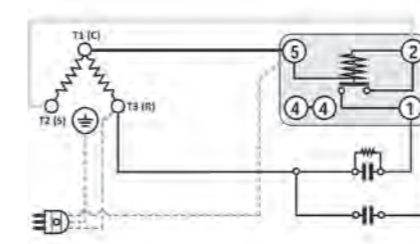
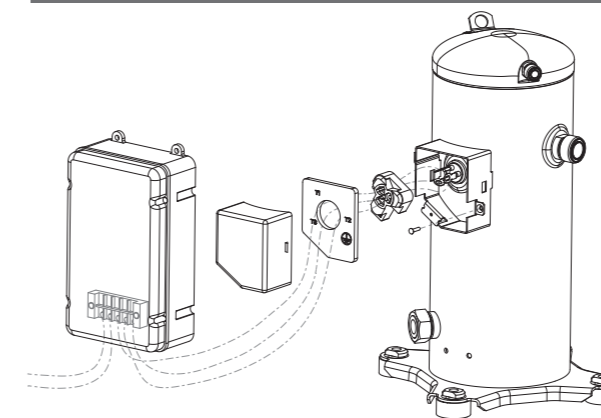
### WIRING DIAGRAMS KEY

	POTENTIAL RELAY
	RUN CAPACITOR
	START CAPACITOR
	3-PHASE MOTOR
	SINGLE PHASE MOTOR
	EARTH CONNECTION
	3-PHASE SUPPLY
	SINGLE PHASE SUPPLY

### SM31\_3 PHASE

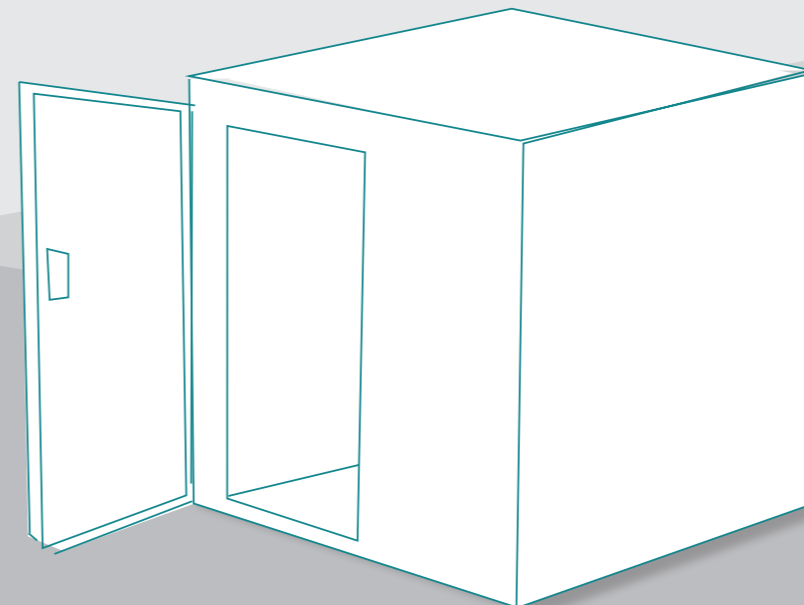
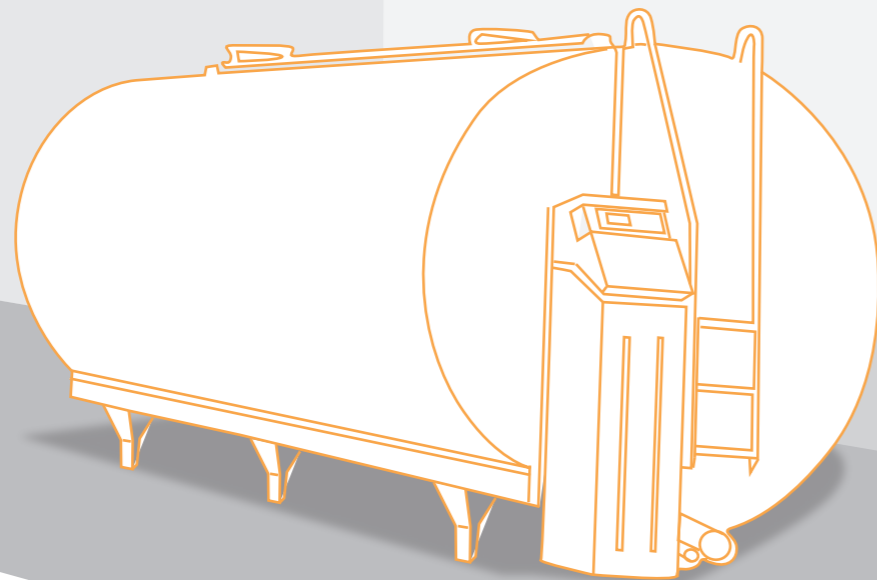
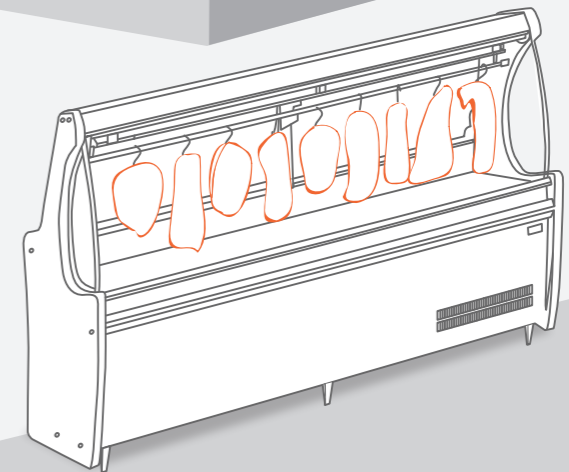
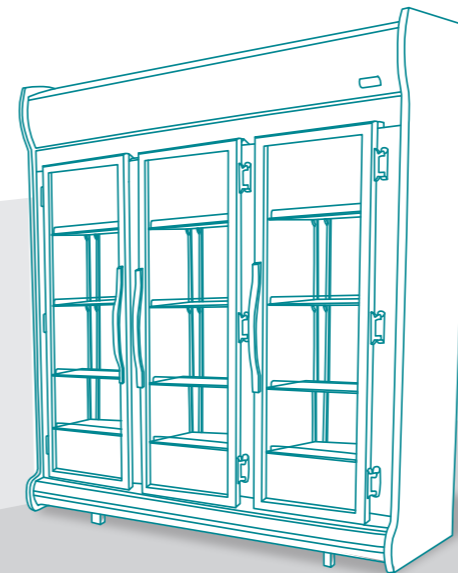
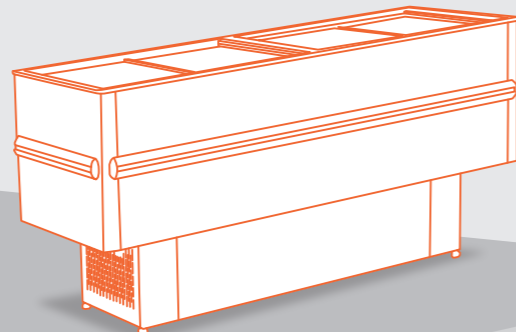
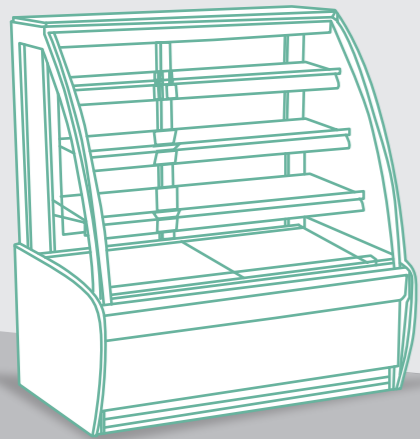


### SM30 - CSR SINGLE PHASE



## APPLICATIONS

Our product range is optimized and tested in the field for various applications: commercial and professional cabinets, supermarkets, convenience stores, food retails, etc. **Embraco Scroll** is focused in the offering the best trade-off among top performance and reliability, with the target of developing solutions with high efficiency and long terms reliability, using various options of refrigerants with a clear focus on green solutions.



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