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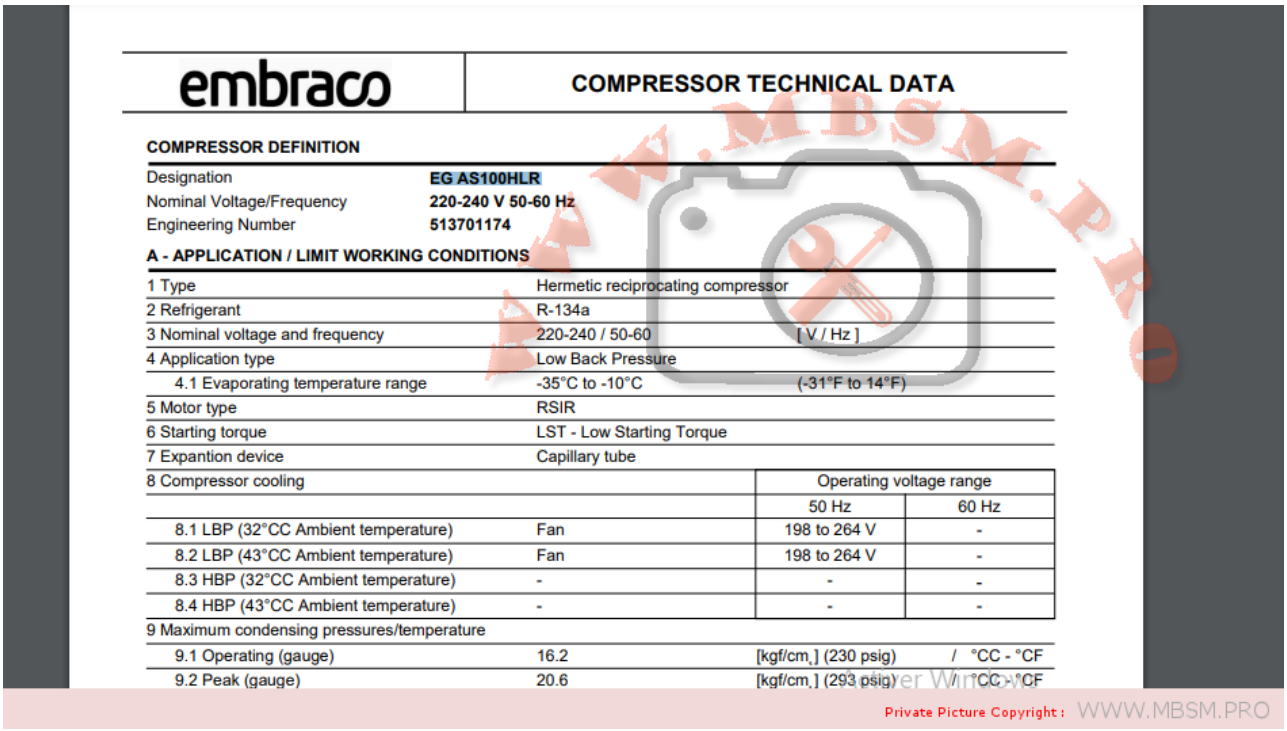

embraco | COMPRESSOR TECHNICAL DATA

COMPRESSOR DEFINITION

Designation	**EG AS100HLR**
Nominal Voltage/Frequency	**220-240 V 50-60 Hz**
Engineering Number	**513701174**

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-134a		
3 Nominal voltage and frequency	220-240 / 50-60	[V / Hz]	
4 Application type	Low Back Pressure		
4.1 Evaporating temperature range	-35°C to -10°C	(-31°F to 14°F)	
5 Motor type	RSIR		
6 Starting torque	LST - Low Starting Torque		
7 Expantion device	Capillary tube		
8 Compressor cooling		Operating voltage range	
		50 Hz	60 Hz
8.1 LBP (32°CC Ambient temperature)	Fan	198 to 264 V	-
8.2 LBP (43°CC Ambient temperature)	Fan	198 to 264 V	-
8.3 HBP (32°CC Ambient temperature)	-	-	-
8.4 HBP (43°CC Ambient temperature)	-	-	-
9 Maximum condensing pressures/temperature			
9.1 Operating (gauge)	16.2	[kgf/cm,] (230 psig)	/ °CC - °CF
9.2 Peak (gauge)	20.6	[kgf/cm,] (293 psig)	/ °CC - °CF

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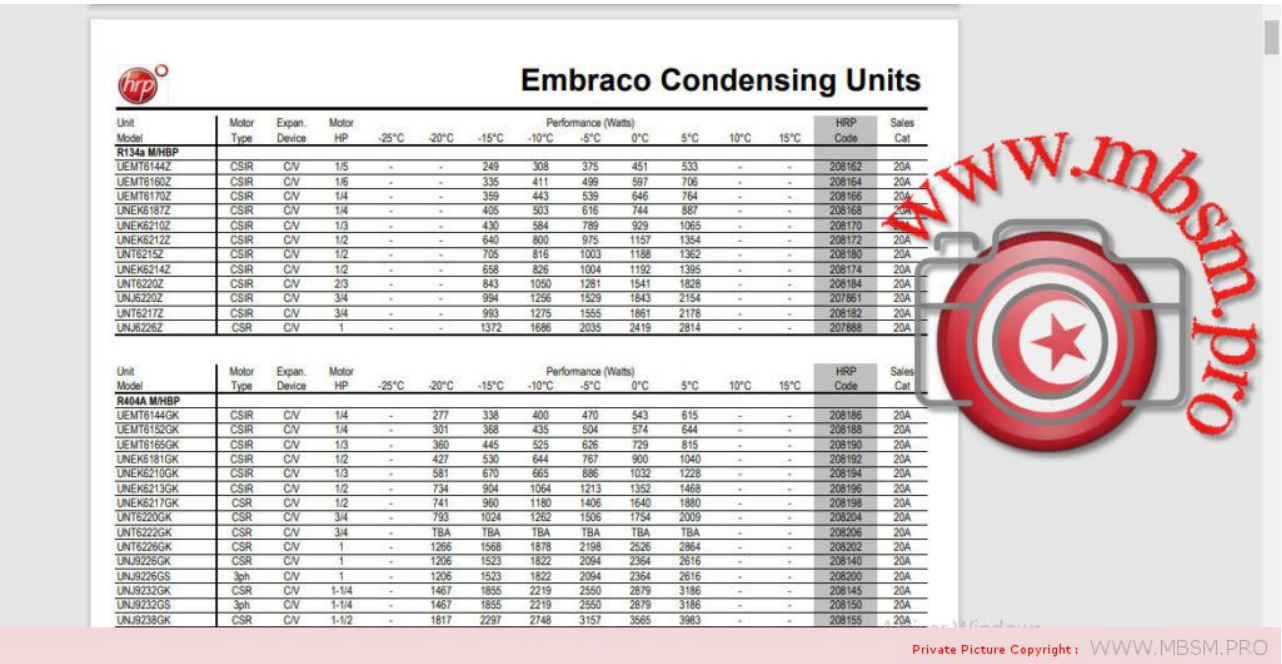

Embraco Condensing Units

Unit Model	Motor Type	Expan. Device	Motor HP	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C	15°C	HRP Code	Sales Cat
R134a M/HBP														
UEMT6144Z	CSIR	C/V	1/5	-	-	249	308	375	451	533	-	-	208162	20A
UEMT6160Z	CSIR	C/V	1/6	-	-	335	411	499	597	706	-	-	208164	20A
UEMT6170Z	CSIR	C/V	1/4	-	-	359	443	539	646	764	-	-	208166	20A
UNEK6187Z	CSIR	C/V	1/4	-	-	405	503	616	744	887	-	-	208168	20A
UNEK6210Z	CSIR	C/V	1/3	-	-	430	584	789	929	1065	-	-	208170	20A
UNEK6212Z	CSIR	C/V	1/2	-	-	640	800	975	1157	1354	-	-	208172	20A
UNT6215Z	CSIR	C/V	1/2	-	-	705	816	1003	1188	1362	-	-	208180	20A
UNEK6214Z	CSIR	C/V	1/2	-	-	658	826	1004	1192	1395	-	-	208174	20A
UNT6220Z	CSIR	C/V	2/3	-	-	843	1050	1281	1541	1828	-	-	208184	20A
UNJ6220Z	CSIR	C/V	3/4	-	-	994	1256	1529	1843	2154	-	-	207861	20A
UNT6217Z	CSIR	C/V	3/4	-	-	993	1275	1555	1861	2178	-	-	208182	20A
UNJ6226Z	CSR	C/V	1	-	-	1372	1666	2035	2419	2814	-	-	207888	20A

Unit Model	Motor Type	Expan. Device	Motor HP	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C	15°C	HRP Code	Sales Cat
R404A M/HBP														
UEMT6144GK	CSIR	C/V	1/4	-	277	338	400	470	543	615	-	-	208186	20A
UEMT6152GK	CSIR	C/V	1/4	-	301	368	435	504	574	644	-	-	208188	20A
UEMT6165GK	CSIR	C/V	1/3	-	360	445	525	626	729	815	-	-	208190	20A
UNEK6181GK	CSIR	C/V	1/2	-	427	530	644	767	900	1040	-	-	208192	20A
UNEK6210GK	CSIR	C/V	1/3	-	581	670	665	886	1032	1228	-	-	208194	20A
UNEK6213GK	CSIR	C/V	1/2	-	734	904	1064	1213	1352	1468	-	-	208196	20A
UNEK6217GK	CSR	C/V	1/2	-	741	960	1180	1406	1640	1880	-	-	208198	20A
UNT6220GK	CSR	C/V	3/4	-	793	1024	1262	1506	1754	2009	-	-	208204	20A
UNT6222GK	CSR	C/V	3/4	-	TBA	TBA	TBA	TBA	TBA	TBA	-	-	208206	20A
UNT6226GK	CSR	C/V	1	-	1266	1568	1878	2198	2526	2864	-	-	208202	20A
UNJ9226GK	CSR	C/V	1	-	1206	1523	1822	2094	2364	2616	-	-	208140	20A
UNJ9226GS	3ph	C/V	1	-	1206	1523	1822	2094	2364	2616	-	-	208200	20A
UNJ9232GK	CSR	C/V	1-1/4	-	1467	1855	2219	2550	2879	3186	-	-	208145	20A
UNJ9232GS	3ph	C/V	1-1/4	-	1467	1855	2219	2550	2879	3186	-	-	208150	20A
UNJ9238GK	CSR	C/V	1-1/2	-	1817	2297	2748	3157	3565	3983	-	-	208155	20A

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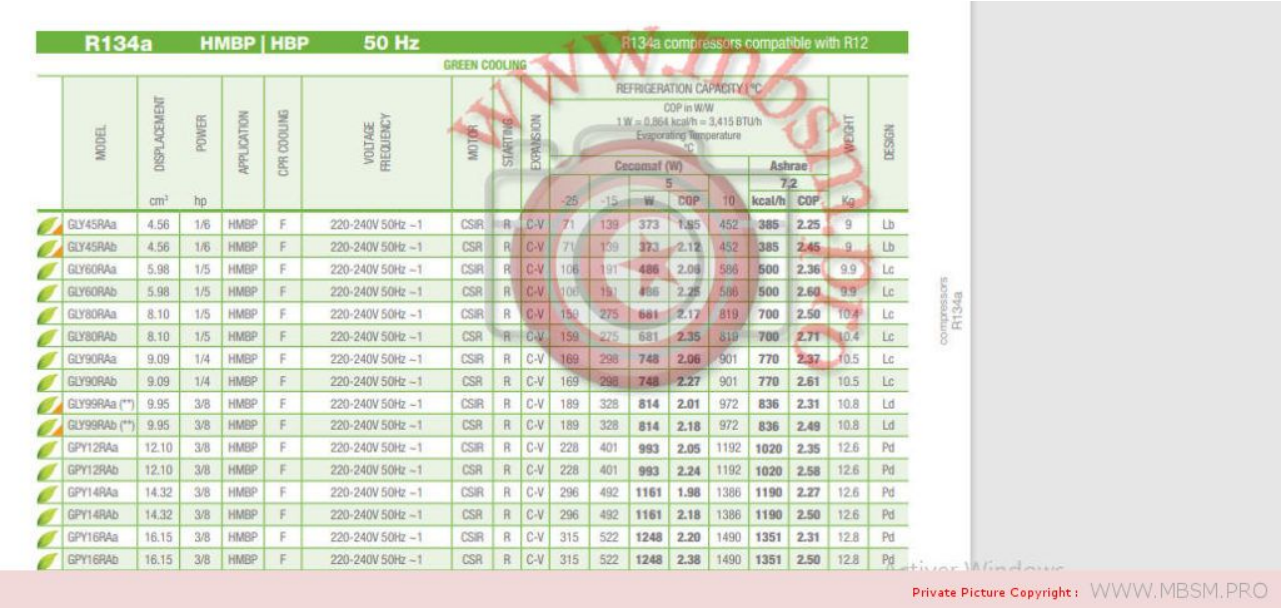

R134a HMBP | HBP 50 Hz — R134a compressors compatible with R12 — GREEN COOLING

MODEL	DISPLACEMENT cm³	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY (°C) COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C: Cecomaf (W) -25	-15	5 W	5 COP	10	Ashrae 7,2 kcal/h	Ashrae 7,2 COP	WEIGHT Kg	DESIGN
GLY45RAa	4.56	1/6	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	71	139	373	1.95	452	385	2.25	9	Lb
GLY45RAb	4.56	1/6	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	71	139	373	2.12	452	385	2.45	9	Lb
GLY60RAa	5.98	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	106	191	486	2.04	586	500	2.36	9.9	Lc
GLY60RAb	5.98	1/5	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	106	191	486	2.25	586	500	2.60	9.9	Lc
GLY80RAa	8.10	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	159	275	681	2.17	819	700	2.50	10.4	Lc
GLY80RAb	8.10	1/5	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	159	275	681	2.35	819	700	2.71	10.4	Lc
GLY90RAa	9.09	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	169	298	748	2.06	901	770	2.37	10.5	Lc
GLY90RAb	9.09	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	169	298	748	2.27	901	770	2.61	10.5	Lc
GLY99RAa (**)	9.95	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	189	328	814	2.01	972	836	2.31	10.8	Ld
GLY99RAb (**)	9.95	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	189	328	814	2.18	972	836	2.49	10.8	Ld
GPY12RAa	12.10	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	228	401	993	2.05	1192	1020	2.35	12.6	Pd
GPY12RAb	12.10	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	228	401	993	2.24	1192	1020	2.58	12.6	Pd
GPY14RAa	14.32	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	296	492	1161	1.98	1386	1190	2.27	12.6	Pd
GPY14RAb	14.32	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	296	492	1161	2.18	1386	1190	2.50	12.6	Pd
GPY16RAa	16.15	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	315	522	1248	2.20	1490	1351	2.31	12.8	Pd
GPY16RAb	16.15	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	315	522	1248	2.38	1490	1351	2.50	12.8	Pd

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		cc	hp		hz	w	w	w	w/w	w/w	µF	mm	kg
220-240V/50Hz													
普效系列 Standard Efficiency Range													
HML140A	Al	8.0	1/8	RSIR/RSCR	50	140	96	90	1.46	1.56	3	152	6.3
中效系列 Medium Efficiency Range													
HDL100A	Al	5.7	1/10	RSIR/RSCR	50	98	65	60	1.50	1.64	2.5	161	6.9
HDL125A	Al	7.0	1/10	RSIR/RSCR	50	125	77	71	1.62	1.75	2.5	164	7.2
HDL140A	Al	8.0	1/8	RSIR/RSCR	50	140	86	80	1.63	1.76	2.5	164	7.2
高效系列 High Efficiency Range													
HXL100A	Cu	5.7	1/15	RSCR	50	98		52		1.88	2	161	7.3
HXL125A	Cu	7.0	1/10	RSCR	50	125		65		1.91	2	161	7.3
HXL140A	Cu	8.0	1/10	RSCR	50	140		73		1.91	2	161	7.3
HXL170A*	Cu	9.3	1/8	RSCR	50	170		89		1.91	2	161	7.3
超高效系列 Top Efficiency Range													
HPL100A*	Cu	5.7	1/14	CSCR	50	100		50		2.00	2	161	7.3
HPL125A*	Cu	7.0	1/12	CSCR	50	125		63		2.00	2	161	7.3
HPL140A*	Cu	8.0	1/10	CSCR	50	140		70		2.00	2	161	7.3
220-240V/60Hz													

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Types of Electrical Motors, RSIR, CSIR, RSCR, CSR, PTC, NTC, LST, HST, MBP, HBP, LBP

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Types of Electrical Motors

RSIR (Resistance Start-Induction Run)

LST motor. No capacitors. Auxiliary winding is disconnected after start up. Standard energy efficiency.

CSIR (Capacitor Start-Induction Run)

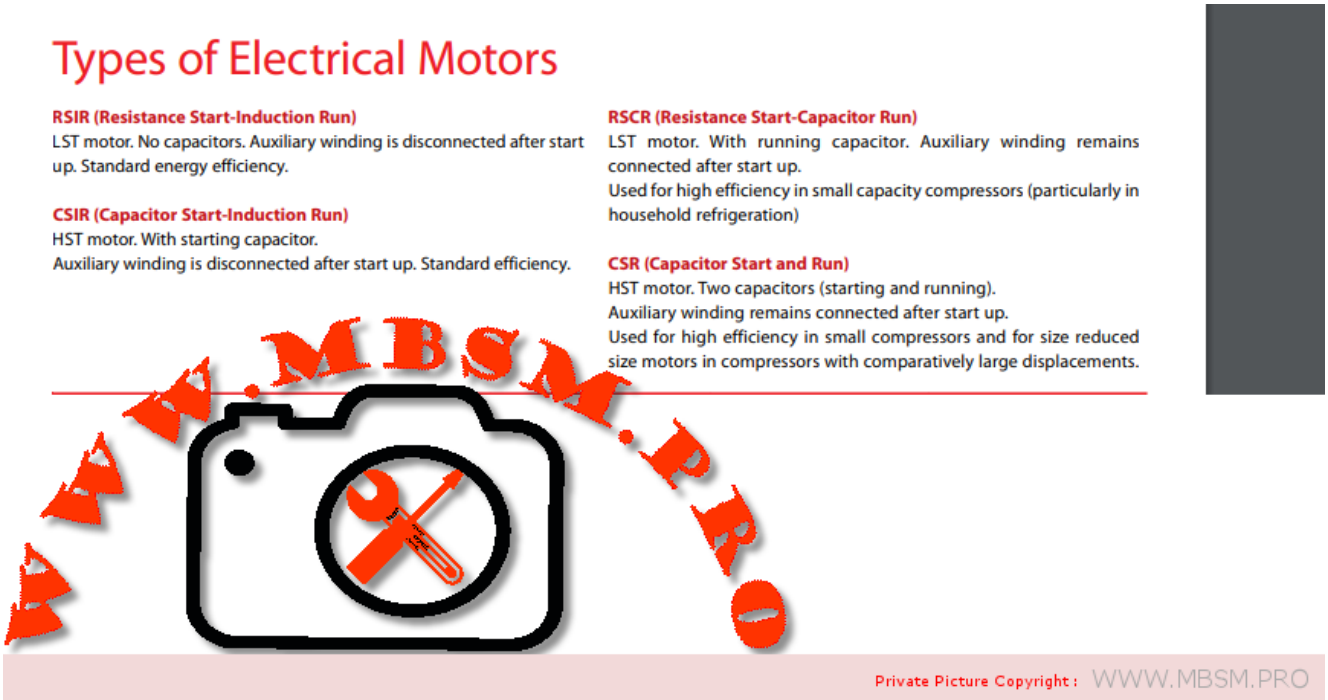
HST motor. With starting capacitor. Auxiliary winding is disconnected after start up. Standard efficiency.

RSCR (Resistance Start-Capacitor Run)

LST motor. With running capacitor. Auxiliary winding remains connected after start up. Used for high efficiency in small capacity compressors (particularly in household refrigeration)

CSR (Capacitor Start and Run)

HST motor. Two capacitors (starting and running). Auxiliary winding remains connected after start up. Used for high efficiency in small compressors and for size reduced size motors in compressors with comparatively large displacements



Type of starting device

Current relay – (electromechanical). RSIR/CSIR motors and CSR low/ medium-power motors with NTC (the NTC is connected in series with the starting capacitor and the main purpose is to reduce the current peaks in the relay contacts)

Potential relay – (electromechanical). CSR high-power motors.

PTC – (Positive Temperature Coefficient), the resistance increases with the temperature. Device only with RSIR or RSCR motors in the (Small L, B), L and P ranges.

NTC – (Negative Temperature Coefficient), the resistance decreases with the temperature. Used in some CSR in order to reduce dimensions and components.

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Type of torque

LST – Low Starting Torque – Systems with capillary tube or balanced
pressures at start up.

HST – High Starting Torque – Systems with expansion valve or capillary tube, with unbalanced pressures at start up.

Type of torque

LST – Low Starting Torque – Systems with capillary tube or balanced pressures at start up.

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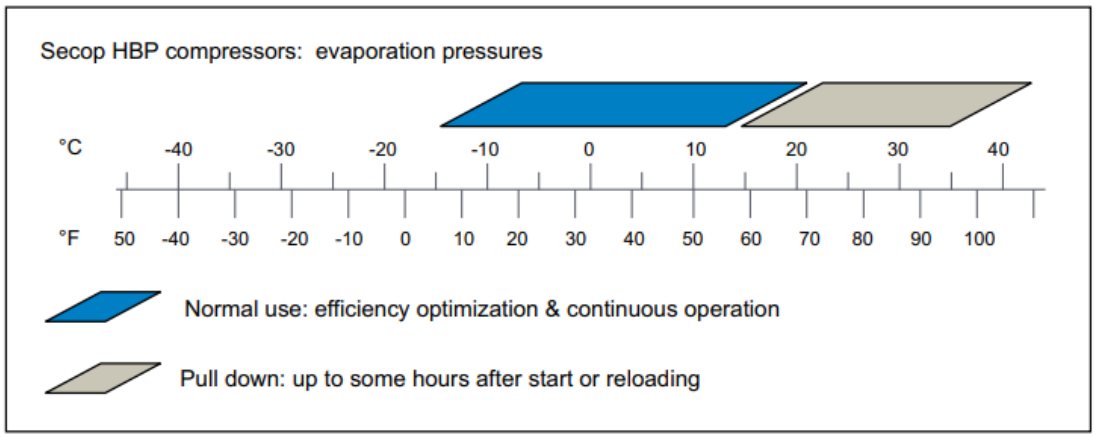

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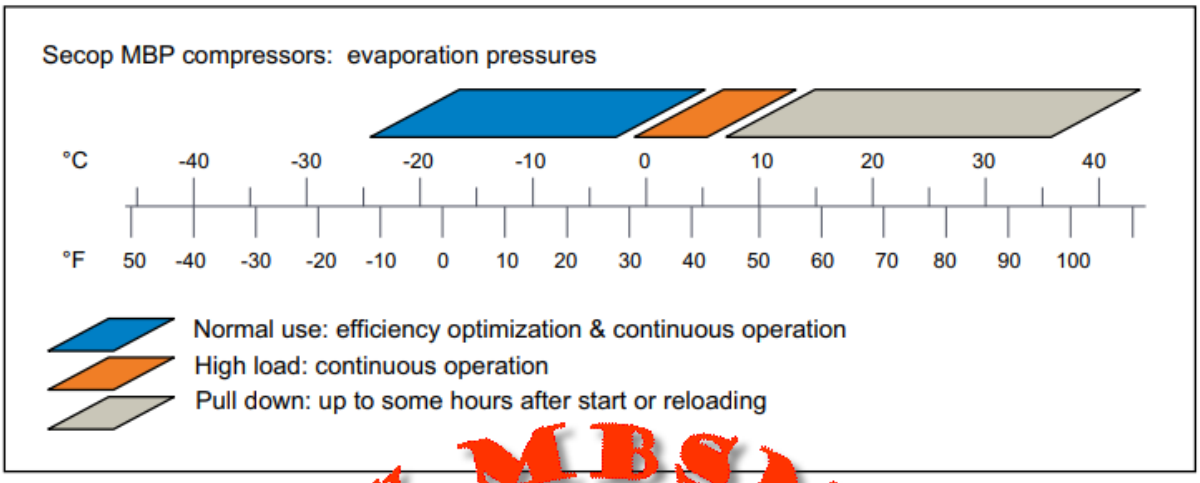

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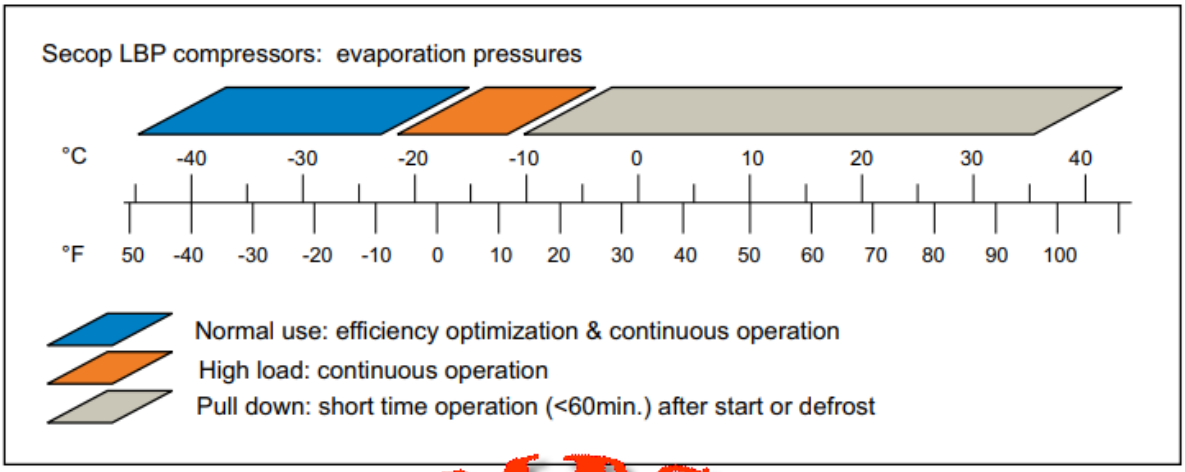

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