

EasyParts LCC

Tool to calculate service intervals and estimated cost for compressor spare parts

1 Access EasyParts LCC on:
<https://my.jci.com/sites/HVACParts-EU/SabroeLCC/SitePages/Home.aspx>

LCC tool available for both screw and recip. compressors

SharePoint

BROWSE PAGE

EasyParts LCC (Life-Cycle material costing)

EasyParts_LCC-Screw

Comments Print Reload Workbook

2 Use link to switch between LCC-Screw and LCC-Recip calculation tool.

3 Update the criteria in the form, so it matches the compressor type and operating conditions, of which you want to calculate service intervals.

EasyParts LCC-Recip
Life-cycle material costing

Type: SMC
Size: 108
Mk: Mk4 LL
Stroke: L
Cooling: Air
Refrigerant: R717
TE [°C]: -20
TC [°C]: 30
Speed rpm: 1800 fixed
Hour/Year: 7500 h

Condensing Temperature [°C]

Working area

Condition

Interval 13000

9000
10000
11000
12000
13000
14000
15000
16000
0

4 The diagram and the list of parts below will be updated each time you change the criteria.

Annual & Prescribed Service / SMC 108L Mk4 LL Air cooled R717 TE -20 TC 30					Master list price [EUR]					
Year	Service	Hour	Item	Description	Estimated Hours *	Price **	Acc.Total Price **	Yearly Average	Monthly Average	Hourly Average
1			3190.312	Annual service SMC 104-108 Mk4 LL / Mk5	5	450	450	450	37	0.06
2	1. Service	11,000 h	3190.299	Service set A SMC 108 Mk4 LL & Mk5 Air	16	3,668	4,118	2,059	172	0.27
3	2. Service	22,000 h	3190.299	Service set A SMC 108 Mk4 LL & Mk5 Air	16	3,668	7,786	2,595	216	0.35

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3	2. Service	22,000 h	3190.299	Service set A SMC 108 Mk4 LL & Mk5 Air	16	3,668	7,786	2,595	216	0.35
4			3190.312	Annual service SMC 104-108 Mk4 LL / Mk5	5	450	8,236	2,059	172	0.27
5	3. Service	33,000 h	3190.299	Service set A SMC 108 Mk4 LL & Mk5 Air	16	3,668	11,904	2,381	198	0.32
6	4. Service	44,000 h	3189.938	Service set C SMC 108 Mk4 LL / Mk5 R717 Air TE=All	36	10,161	22,064	3,677	306	0.49
7			3190.312	Annual service SMC 104-108 Mk4 LL / Mk5	5	450	22,514	3,216	268	0.43
8	5. Service	55,000 h	3190.299	Service set A SMC 108 Mk4 LL & Mk5 Air	16	3,668	26,182	3,273	273	0.44
9	6. Service	66,000 h	3190.299	Service set A SMC 108 Mk4 LL & Mk5 Air	16	3,668	29,850	3,317	276	0.44
10			3190.312	Annual service SMC 104-108 Mk4 LL / Mk5	5	450	30,300	3,030	252	0.40

Incl. extended warranty 3 Year / SMC 108L Mk4 LL Air cooled R717 TE -20 TC 30					Master list price [EUR]						
Year	Service	Houer	Item	Description	Estimated hours *	Price **	Total **	Acc.Total Price **	Yearly Average	Monthly Average	Hourly Average
1			1231.2007	Oil Analysis Kit - Enhanced	1	53					
			3190.312	Annual service SMC 104-108 Mk4 LL / Mk5	5	450	503	503	503	42	0.07
2	1. Service	11,000 h	1231.2007	Oil Analysis Kit - Enhanced	1	53					
			3190.299	Service set A SMC 108 Mk4 LL & Mk5 Air	16	3,668	3,721	4,224	2,112	176	0.28
3	2. Service	22,000 h	1231.2007	Oil Analysis Kit - Enhanced	1	53					
			3190.299	Service set A SMC 108 Mk4 LL & Mk5 Air	16	3,668					
			3189.955	Service set A-Supplementary T/SMC/HPC 108 Mk4 LL / Mk5	6	2,366	6,087	10,310	3,437	286	0.46

5

Below the diagram you will find one or two tables with all relevant service sets and how many hours the compressor should run before service is needed.

The blue table:

- Available for both recip and screws with standard warranty.

The green table:

- Available for recip with extended 3-year warranty only.



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6

How to read the tables of annual & prescribed service

Annual & Prescribed Service / SMC 108L Mk4 LL Air cooled R717 TE -20 TC 30						Master list price [EUR]				
Year	Service	Houer	Item	Description	Estimated Hours *	Price **	Acc.Total Price **	Yearly Average	Monthly Average	Hourly Average
1			3190.312	Annual service SMC 104-108 Mk4 LL / Mk5	5	425	425	425	35	0.06
2	1. Service	11,000 h	3190.299	Service set A SMC 108 Mk4 LL & Mk5 Air	16	3,480	3,905	1,952	163	0.26
3	2. Service	22,000 h	3190.299	Service set A SMC 108 Mk4 LL & Mk5 Air	16	3,480	7,385	2,462	205	0.33
4			3190.312	Annual service SMC 104-108 Mk4 LL / Mk5	5	425	7,809	1,952	163	0.26
5	3. Service	33,000 h	3190.299	Service set A SMC 108 Mk4 LL & Mk5 Air	16	3,480	11,289	2,258	188	0.30
6	4. Service	44,000 h	3189.938	Service set C SMC 108 Mk4 LL / Mk5 R717 Air TE=All	36	9,586	20,875	3,479	290	0.46

Standard Warranty
(recips & screws)

Incl. extended warranty 3 Year / SMC 108L Mk4 LL Air cooled R717 TE -20 TC 30						Master list price [EUR]					
Year	Service	Houer	Item	Description	Estimated hours *	Price **	Total **	Acc.Total Price **	Yearly Average	Monthly Average	Hourly Average
1			1231.2007	Oil Analysis Kit - Enhanced	1	53					
			3190.312	Annual service SMC 104-108 Mk4 LL / Mk5	5	425	478	478	478	40	0.06
2	1. Service	11,000 h	1231.2007	Oil Analysis Kit - Enhanced	1	53					
			3190.299	Service set A SMC 108 Mk4 LL & Mk5 Air	16	3,480	3,533	4,010	2,005	167	0.27
3	2. Service	22,000 h	1231.2007	Oil Analysis Kit - Enhanced	1	53					
			3190.299	Service set A SMC 108 Mk4 LL & Mk5 Air	16	3,480	5,765	9,775	3,258	272	0.43
			3189.955	Service set A-Supplementary T/SMC/HPC 108 Mk4 LL / Mk5	6	2,232					
4			3190.312	Annual service SMC 104-108 Mk4 LL / Mk5	5	425	425	10,200	2,550	212	0.34
5	3. Service	33,000 h	3190.299	Service set A SMC 108 Mk4 LL & Mk5 Air	16	3,480	3,480	13,680	2,736	228	0.36
6	4. Service	44,000 h	3189.938	Service set C SMC 108 Mk4 LL / Mk5 R717 Air TE=All	36	9,586	9,586	23,265	3,878	323	0.52
7			3190.312	Annual service SMC 104-108 Mk4 LL / Mk5	5	425					

Extended 3-year Warranty
(recips only)

After how many hours service is needed

Needed part numbers and descriptions of service sets/parts.

Estimated hours for the specific service/overhaul job (evacuation and preparation of the compressor is not included).

Price calculations based on list prices. Labor costs and discounts are not included in the price examples.

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Life-cycle material costing

Type: SMC
Size: 108
Mk: Mk4 LL
Stroke: L
Cooling: Air
Refrigerant: R717
TE [°C]: -20
TC [°C]: 30
Speed: 1,800
:Hour/Year: 7,500 h

SMC 108L Mk4 LL TE -20 TC 30

SMC 108L Mk4 LL R717 TE -20 TC 30

Annual & Prescribed Service / SMC 108L Mk4 LL Air cooled R7

Year	Service	Hour	Item	Description
1			3190.312	Annual service SMC 104-108 Mk4 LL / Mk5
2	1. Service	11,000 h	3190.299	Service set A SMC 108 Mk4 LL & Mk5 Air
3	2. Service	22,000 h	3190.299	Service set A SMC 108 Mk4 LL & Mk5 Air
4			3190.312	Annual service SMC 104-108 Mk4 LL / Mk5
5	3. Service	33,000 h	3190.299	Service set A SMC 108 Mk4 LL & Mk5 Air
6	4. Service	44,000 h	3189.938	Service set C SMC 108 Mk4 LL / Mk5 R717 Air TE=
7			3190.312	Annual service SMC 104-108 Mk4 LL / Mk5
8	5. Service	55,000 h	3190.299	Service set A SMC 108 Mk4 LL & Mk5 Air
9	6. Service	66,000 h	3190.299	Service set A SMC 108 Mk4 LL & Mk5 Air

[MLP]

	1	2	3	4	5	6	7	8	9	10
Price prescribed service only	425	3,480	3,480	425	3,480	9,586	425	3,480	3,480	425
Price incl. 3 years warranty	478	3,533	5,765	425	3,480	9,586	425	3,480	3,480	425
Price prescribed service only Acc.Total	425	3,905	7,385	7,809	11,289	20,875	21,299	24,779	28,259	28,684
Price incl. 3 years warranty Acc. Total	478	4,010	9,775	10,200	13,680	23,265	23,690	27,170	30,650	31,075

7 Click on the Chart tab to open a graphic comparison (only available for recip.).

Shows the accumulated service price over a decade for a compressor with respectively standard warranty and extended warranty.