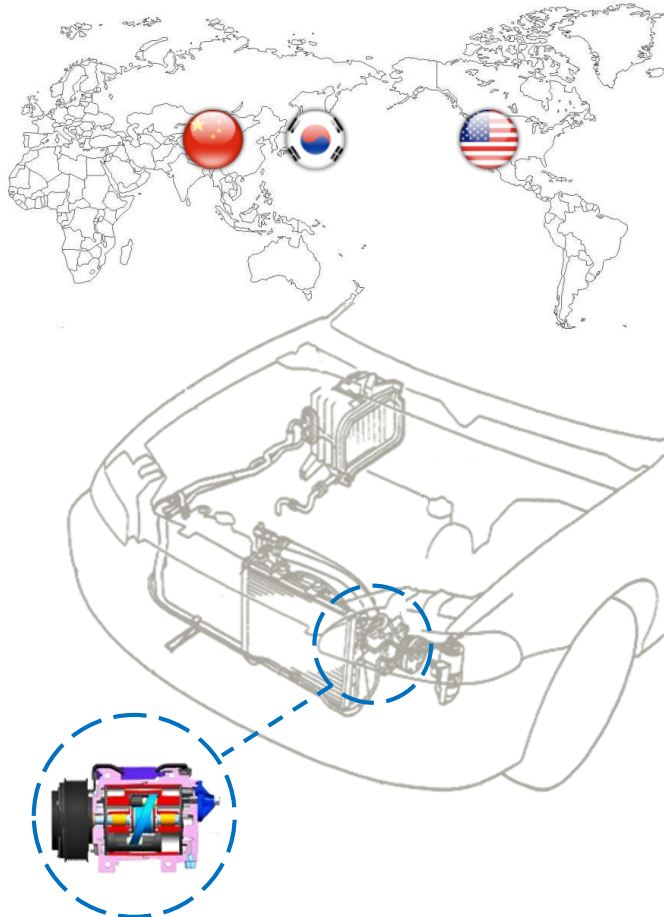


SAM HWA

A/C COMPRESSOR



Address : #66-1, Gasan-ro, Hallim-myeon, Gimhae-si, Gyeongsangnam-do 50849, Republic of Korea
Tel: +82-55-335-3545 / E-mail : kccorea@gmail.com



COMPANY INFO.

- ☐ **COMPANY** SamHwa Co., Ltd.(Regi Nr : 277-81-00424)
- ☐ **FOUNDATION** 03. 12, 2003. (2012-2018 KC CORP)
- ☐ **BUSINESS** A/C COMPRESSOR & COMPONENTS
- ☐ **ADDRESS** Gasan-ro, Hallim-myeon, Gimhae-si,
Gyeongsangnam-do 50849, South Korea
- ☐ **CONTACT** +82-55-335-3545 / kccorea@gmail.com
- ☐ **CUSTOMER**



[North America-
A/S market]]



SYMC – TIER2



Volkswagen

COMPANY HISTORY



2006 Won a Prize of President for export (\$ 5 million)

2007 Obtained Environmental Technique Certificate

2007 Founded Corporate R&D Center

2007 Won a Prize of President for export (\$10 million)

2008 Won a Prize of President for export (\$20 million)

2013 Supplied to Delphi, Korea

2014 Supplied to KukJe Machinery (Tractor), Korea

2003 Founded SamHwa Tech

2003 Obtained ISO / TS16949

2004 Obtained TS16949

2005 Obtained ISO 14001

2010 Appointed 2010 Brilliant Brand of Korea

2012 Changed the company name to KC

2015 Supplied to DENSO, USA

2016 Supplied to VolksWagen, China

2019 Changed KC to SamHwa

2003
~2005

2006
~2009

2010
~2012

2013
~2015

2016
~2019

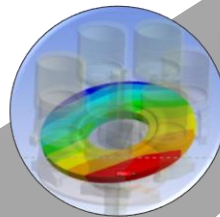


RESEARCH & DEVELOPMENT

Our researcher of Technology Institute can design the products by ourselves using 3D and 2D programs.

For the Product Stability, cooperated with University/ Material Laboratory of Gyeongnam Technopark and conducted Structure Analysis and Fatigue/ Thermal Analysis.

Realization of Product Development with Overseas Corporation, Overseas Compressor Manufacturers and over 50 Partners.



Conducted self-assessment of product for customer satisfaction (Complex Durability, NVH, Bench Test etc.)

QUALITY PROGRAM



CERTIFICATE OF REGISTRATION

This is to certify that:

SAMHWA Co., Ltd.

66-1, Gasan-ro, Hallim-myeon, Gimhae-si, Gyeongsangnam-do, 50849, Korea

Operates a

QUALITY MANAGEMENT SYSTEM

Which complies with the requirements of

IATF 16949:2016

For the following scope of registration:

The manufacture of air conditioning compressor parts.

Exclusion - Product Design.

Certificate No.: AUTO40999
IATF Database No.: 0354191

Issue Date: 9 May 2019
Expiry Date: 8 May 2022

Kevin Goodwin
General Manager Technical Services
SAI Global Assurance

George Azedo
Automotive Technical Manager



Registered by:
SAI Global Certification Services, Pty Ltd 20 Carlson Court, Suite 200, Toronto, Canada M8W 7G6 (SAI Global) and subject to the SAI Global
Terms and Conditions for Certification. While all due care and skill are exercised in carrying out the assessment, SAI Global accepts no responsibility
for the proven negligence. This certificate remains the property of SAI Global and must be returned to SAI Global upon its request. To verify that this
certificate is current, please refer to IATF website at <http://www.iatfstandards.org> and enter the IATF certificate number. Scan QR code in
the certificate validity check service.

SAI GLOBAL

***SamHwa** is doing our best to control our Quality Management System for Continuous Improvement, Prevention of Defects, Reduce of Wastes through the Acquisition of IATF 16949.*

- (1) ATF DATABASE : 0354191
- (2) ISSUE DATE : 05. 09, 2019.
- (3) Registered by : SAI GLOBAL

**Quality
Certification**

**Certified IATF16949
(Quality First Policy)**

**Quality
Program**

**Conducting Clean-up 3
Steps (Efficiency
Improvement, Cost
Reduction, Waste Removal,
Continuous Improvement)**

**Customer
Satisfaction**

**Defective rate
below 25 ppm /
Goal is Zero
Customer
Complain.**

A/C COMP. TESTER



-	BENCH TEST
PIC.	
Test	- Automotive A/C Comp. performance Test - Automotive A/C Comp. NVH Test
Size	NVH Chamber Out Side Dimension : 4000(W) x 4200(D) x 3400(H)
NOTE	- PC-based Software - Refrigerant Flow and Oil Flow



Functional Test

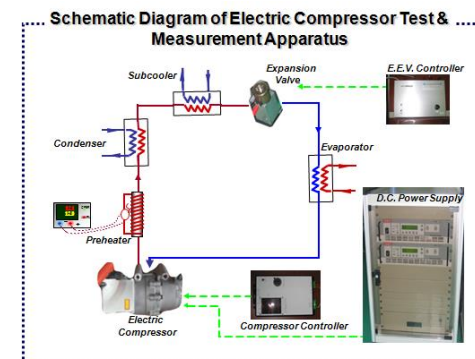


Vacuum Decay Test



Helium Leak Test

***SamHwa** is carrying out full inspection after assembling compressors. To meet customers' quality requirements, we supply only the good products which have tested with Bench Test, Functional Test, Vacuum Decay Test, Helium Leak Test etc.*



MACHINING LINE

A/C COMPRESSOR



Machine center
(Robot automation)



Machine center



Welding machine



Cnc lathe (Robot)



Centerless center



Bridge machine



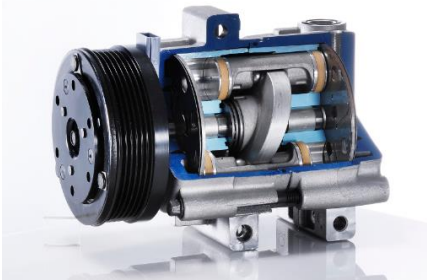
Cap machine



PTFE COATING



ASSEMBLY LINE

SORT	FIXED SWASH PLATE	VARIABLE	ROTARAY
Incised picture after assembling			
CAPA./YEAR	300,000 EA	200,000 EA	100,000 EA
LINE	1 LINE	1 LINE	1 LINE
MODEL	FS10 / HS / KF SERIES	VD7A / KV SERIES	R4
OPERATION	2 SHIFT		



***SamHwa** is machining compressor parts by ourselves and assembling compressors which are supplied with new parts from over 50 partners.*



FS10 COMPRESSOR

FS10

KF15

HS18

VD7A

R4

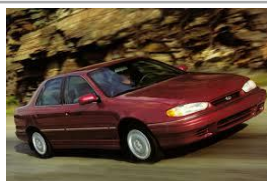
OTHERS

FS10 COMPRESSOR

TYPE	FIXED SWASH PLATE
DISPLACEMENT	170cc/rev.
WEIGHT	6.4Kg
MAX. rpm	6,000rpm
PERFORMANCE	4,300 [Kcal/h] MIN. @ 1,800 rpm
LUB. OIL	PAG OIL
REFRIGERANT	R134a
Development	2005
SERIES	36



Bronco



Elantra



For the applying models, please, see the appendix on the last page.



KF15 COMPRESSOR

FS10

KF15

HS18

VD7A

R4

OTHERS

KF15 COMPRESSOR

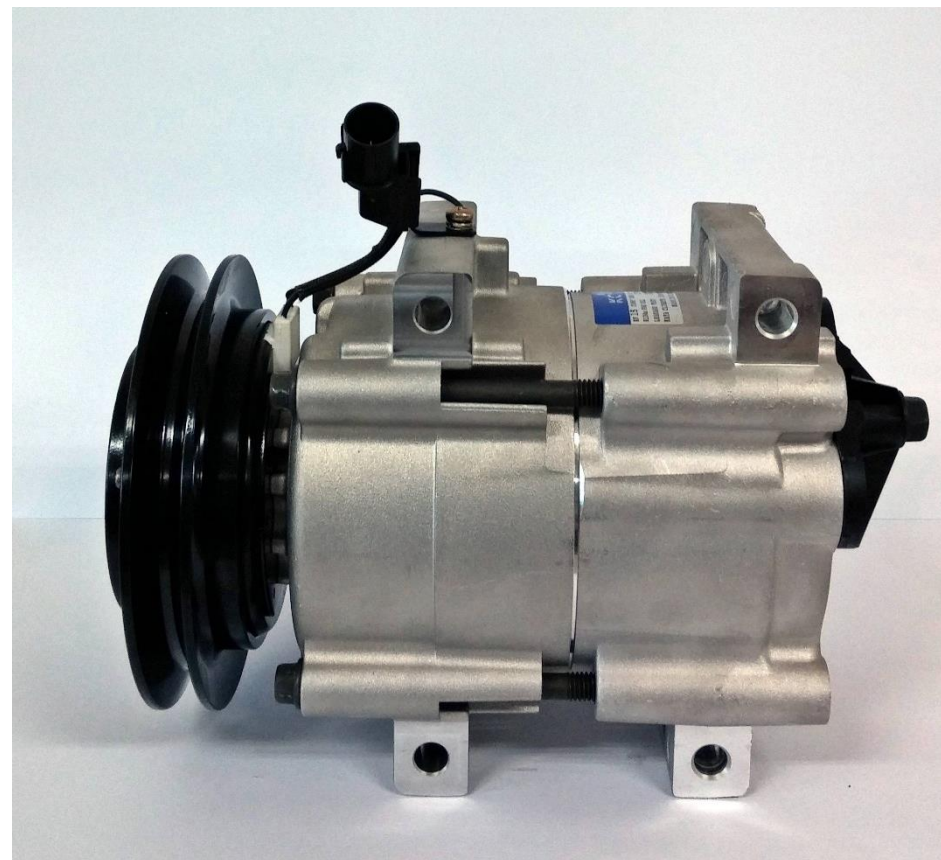
TYPE	FIXED SWASH PLATE
DISPLACEMENT	154cc/rev.
WEIGHT	6.4Kg
MAX. rpm	9,000rpm
PERFORMANCE	4,200 [Kcal/h] MIN. @ 1,800 rpm
LUB. OIL	PAG OIL
REFRIGERANT	R134a
Development	2014
SERIES	1



Luxen 75



Luxen 1100



KF15 compressor can be mounted on Agricultural Machinery Tractors.



HS18 COMPRESSOR

FS10

KF15

HS18

VD7A

R4

OTHERS

HS18 COMPRESSOR

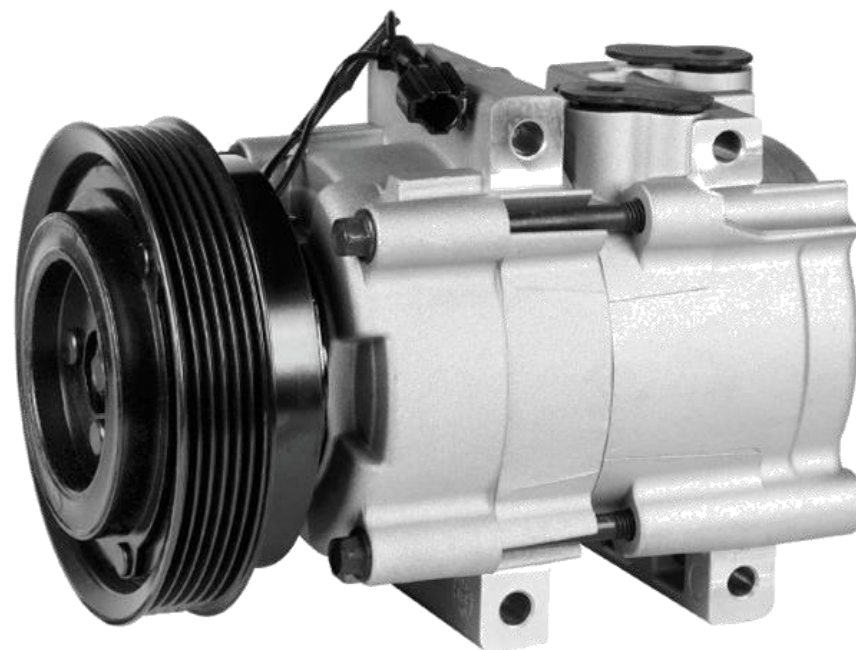
TYPE	FIXED SWASH PLATE
DISPLACEMENT	180cc/rev.
WEIGHT	6.8Kg
MAX. rpm	6,000rpm
PERFORMANCE	4,500 [Kcal/h] MIN. @ 1,800 rpm
LUB. OIL	PAG OIL
REFRIGERANT	R134a
Development	2012
SERIES	7



Santa Fe



Sorento



For the applying models, please, see the appendix on the last page.

VD7A COMPRESSOR



FS10

KF15

HS18

VD7A

R4

OTHERS

VD7A COMPRESSOR

TYPE	VARIABLE
DISPLACEMENT	160cc/rev.
WEIGHT	6.8Kg
MAX. rpm	9,000rpm
PERFORMANCE	2,700 [Kcal/h] MIN. @ 1,000 rpm
LUB. OIL	PAG OIL
REFRIGERANT	R134a
Development	2010
SERIES	1



Malibu



G6



For the applying models, please, see the appendix on the last page.

R4 COMPRESSOR



FS10

KF15

HS18

VD7A

R4

OTHERS

R4 COMPRESSOR

TYPE	RECIPROCATOR
DISPLACEMENT	180cc/rev
WEIGHT	6.8Kg
MAX. rpm	4,500rpm
PERFORMANCE	4,000 [Kcal/h] MIN. @ 1,800 rpm
LUB. OIL	PAG OIL
REFRIGERANT	R134a / R12
Development	2010
SERIES	14



Humvee



190E



For the applying models, please, see the appendix on the last page.

COMPRESSOR (REMANUFACTURING)



FS10

KF15

HS18

VD7A

R4

OTHERS



DIV	CONTENS
ITEM	V5 COMP. (NEW/REMAN.)
TYPE	WABBLE
SERIES	30



DIV	CONTENS
ITEM	10PA15C COMP. (REMAN.)
TYPE	FIXED SWASH PLATE
SERIES	6



DIV	CONTENS
ITEM	CVC COMP.
TYPE	VARIABLE
SERIES	4



DIV	CONTENS
ITEM	QS90 COMP.
TYPE	FIXED SWASH PLATE
SERIES	1



DIV	CONTENS
ITEM	SP10 COMP
TYPE	FIXED SWASH PLATE
SERIES	4



DIV	CONTENS
ITEM	10PA17C COMP. (REMAN.)
TYPE	FIXED SWASH PLATE TYPE
SERIES	6



DIV	CONTENS
ITEM	HS15 COMP. (REMAN.)
TYPE	FIXED SWASH PLATE
SERIES	1

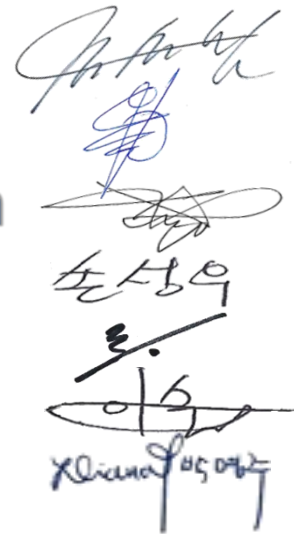


DIV	CONTENS
ITEM	HS17 COMP. (REMAN.)
TYPE	FIXED SWASH PLATE
SERIES	1

We always do our best for customers.

Thank you.

- ❑ Management
- ❑ Production
- ❑ Administration
- ❑ Quality
- ❑ Purchasing
- ❑ RnD
- ❑ Sales



♠ If you have any inquiries, please send us an email to kccorea@gmail.com.





DETAILS / FS10 COMPRESSOR

FS10 COMPRESSOR – PART NUMBER (36 EA)

PART NUMBER		DETAILS			PART NUMBER		DETAILS			PART NUMBER		DETAILS		
4S	OE	PULLEY	COIL	PORT	4S	OE	PULLEY	COIL	PORT	4S	OE	PULLEY	COIL	PORT
58120	F2UZ19V703FA	6PK	12	REAR	58144	F5RZ19703A	6PK	12	REAR	58163	F7DZ19703GB	6PK	3	REAR
58121	FOSZ19V703EA	8PK	12	REAR		F6RZ19703CA	6PK	12	REAR	58165	19192398	6PK	12	TOP
58122	FOTZ19703E	6PK	12	REAR	58145	F5RZ19703B	6PK	12	TOP	58166	19192115	6PK	6	REAR
58123	F3AZ19V703AA	7PK	12	TOP		F6RZ19703BA	6PK	12	REAR	58167	19192116	6PK	12	TOP
58124	F10Y19V703AA	6PK	12	REAR	58146	F6RZ19703CA	6PK	3	REAR	58168	19192117	6PK	3	REAR
58126	E801624RM	6PK	12	REAR	58147	F6DZ19703A	6PK	3	REAR					
58127	FOSZ19V703EA	6PK	6	REAR	58148	F6ZL19703AA	6PK	3	TOP					
58128	19192089	6PK	9	REAR	58149	F6LZ19703AA	8PK	12	TOP					
58129	E3AZ19V703AA	6PK	12	TOP	58150	F6DZ19703AA	8PK	3	REAR					
58130	E8CZ19V703BA	6PK	3	REAR	58151	F6LZ19703AA	6PK	3	TOP					
58131	19192092	5PK	3	REAR	58152	F6LZ19703A	8PK	12	TOP					
58132	F1TZ19V703GA	6PK	3	REAR	58154	9770134001	4PK	12	TOP					
58133	F10Y19D798A	6PK	12	REAR	58157	19192108	6PK	12	REAR					
	F2CZ19D786A	6PK	12	REAR	58158	19192109	6PK	12	REAR					
58139	F3OY19V703TA	4PK	12	REAR	58159	F67H19D623AA	8PK	3	REAR					
58140	F1SZ19V703GA	6PK	12	REAR	58161	19192111	8PK	12	REAR					
58141	F1SZ19V703GA	6PK	12	REAR	58162	F7DZ19703GB								



DETAILS / R4 COMPRESSOR

R4 COMPRESSOR – PART NUMBER (14EA)			
PART NUMBER		DETAILS	
4S	OE	PULLEY	COIL
58221	12305743	131.0	12
58228	2724368	131.0	9
58231	1131061, 1131076, 1131078, 1131113, 1131139, 1131158, 1131200, 1131201, 1131639, 2724350	131.0	12
58235	12321365, 12322332	131.5	9
58237	1131331, 1131397, 12326202, 2724353, 3090927, 3090928	108.52	12
58238	1131649, 12322324, 12326200, 12326201, 2724351	123.85	12
58239	1134312, 12328621, 12353277, 3091278	108.52	9
58240	1134316	131.5	12
58935	1131875, 1131921	108.52	12
58937	1131875, 1131921	108.52	12
58941	1131878	123.85	12
58942	1131880	108.52	12
58948	1134328	108.52	12
68225		123.85	3



DETAILS / V5 COMP (REMANUFACTURING)

V5 COMPRESSOR – PART NUMBER (32EA)

PART NUMBER		PART NUMBER	
4S	OE	4S	OE
67270	96539394, 96539388, 96293315 (KDAC: 714978, 715399, 720058)	68200	9196953, 92089893, 90443840 (KDAC: 1135295, 1135025, 1135323)
68270		68202	1854043, 90509595, 24432574 (KDAC: 1854050, 1854014, 90509590)
57107	96804280, 96442920, 96813345 (KDAC: 700772, 175214, 715372)	67203	1854024, 1854079, 13185406 (KDAC: 1135240, 1135292, 1854144)
58107		58107	1135465, 1135257 (KDAC: 1135465, 1135257)
68298	96400070, 96274629, 96291294 (KDAC: 715010, 700718, 700699)	68207	1135095, 05110506, 05110577 (KDAC: 1135095, 05110506, 05110577)
68210	96245943, 96245940, 96255980 (KDAC: 700653, 700696, 700699)	57992	1135269, 1135145, 1135283 (KDAC: 1135269, 1135145, 1135283)
68201	96190642, 96248386, 96293320 (KDAC: 700651, 700680, 700736)	57277	11131739, 1135046, 9196942 (KDAC : 11131739, 1135046, 9196942)
68209		-	5110315 (KDAC: 5110315)
67276	96450078, 96442926, 96271358 (KDAC: 700725, 700727, 715029)	-	700641 (KDAC: 700641)
621005	96409126, 6512483, 9520086Z20 (KDAC: 715060, 621005, 25187359)	-	5110519 (KDAC: 5110519)
-	25187252, 96409087, 69801525 (KDAC: 715113, 730067, 715324)	-	5110008 (KDAC: 5110008)
67208	96191807, 96191808, 1135132 (KDAC: 5110547, 5110577, 5110549)	-	715618 (KDAC: 715618)
68208		-	751164 (KDAC : 751164)
-	5110501 (KDAC: 5110501)	68297	7512783
58976	1131792, 1131803 (KDAC: 1135000, 1135005)	-	13414019, 13414019, 1618494
58981	11354154, 1135090, 1135209 (KDAC: 11354154, 1135090, 1135209)		
68274	1135312, 1135273, 1135019 (KDAC: 715021, 1135312, 1131909)		

DETAILS / COMPRESSOR (REMANUFACTURING)



COMPRESSOR 9 MODEL

MODEL	PART NUMBER		MODEL	PART NUMBER	
	4S	OE		4S	OE
HS18	58119	1K52Y61450	10PA15C	68301	711001
	58183	9770126300, 9770139181		68306	
	58185	9770138170 KIA : 9770138171		68369	OK018-61-450450C
	58190	977013E200		68318	711003
	58197	9770139881		158303	OK038-61-450
	68182	55111411AC		98848	OK30C-61-450
	58189	97701-38071		57881	OK01B-61-450
HS15	58188	97701-25000		58881	
SP10	68227	96568208	10S17C	68337	15203089, 25891795, 89022562
	68152	96528118, 96565233	10S17F	78377	78362, 78363, 78376
	98761	96568210	CVC	68218	13346489
SPARK	98453	1522288, 95194690, 95371557		68219	13271264
10PA17C	58174	97701-3E600		158271	13385464, 13414019
	98334	661-130-3015		158272	13346491, 13413335, 23422341
	78393	661-130-3015		68296	15237839, 22692374
	-	OK852-61-450			
	-	OK71E-61-450			