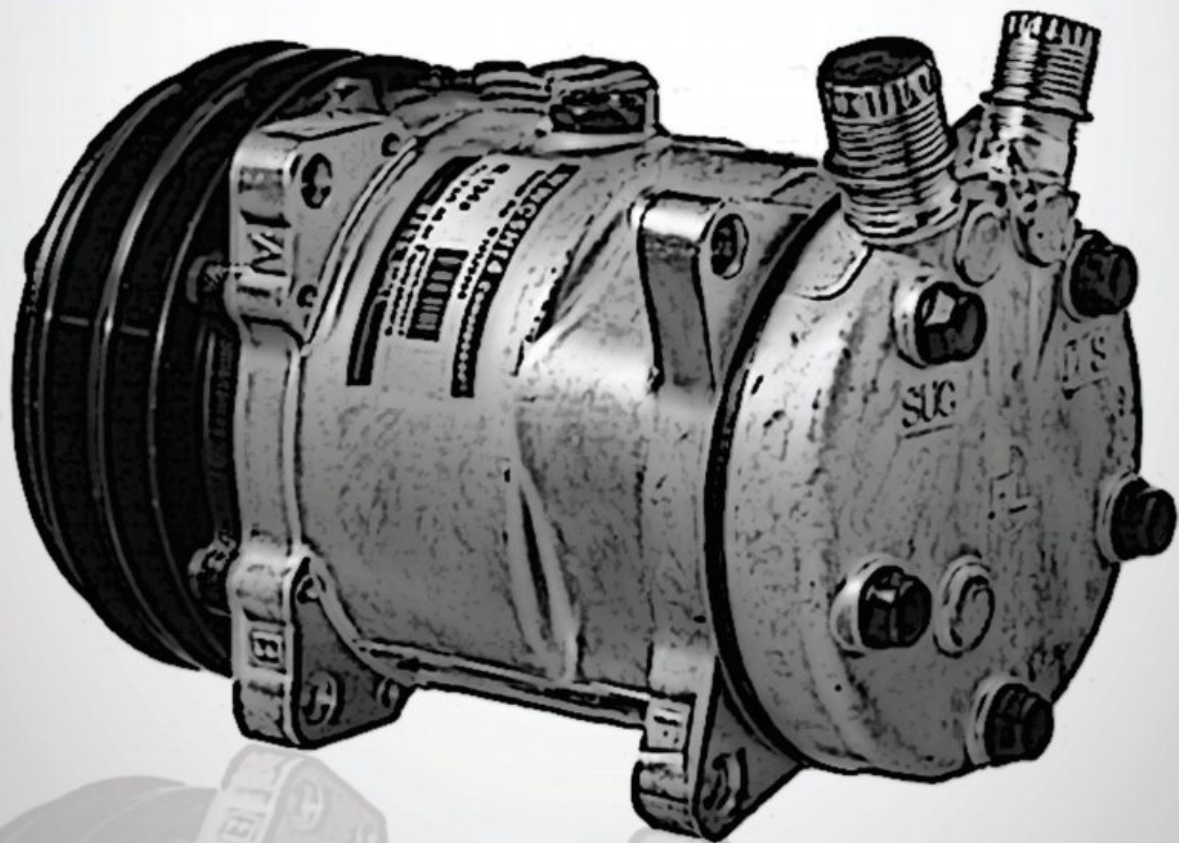


WANG R&ACE

Refrigeration & AirConditioning Equipments Co., Ltd

AUTO AIR CONDITIONING *General Catalogue*



Wang for mutual success...

Technology

Innovation

Design

Quality



WWC5H Series 5 Pistons Compressors

- 5 Pistons Driven
- Fixed Displacement
- The Wobble-plate Drive Mechanism

TECHNICAL FEATURES:	WWC5H09	
Compressor Displacement	Maximum Speed (Temporary)	Maximum Speed (Permanently)
87 cc/rev	7500 rpm/min	6500 rpm/min

Code Nr.	Compressor Model	Clutch				Mounting	Cylinder Head	Oil cc
		Groove	Voltage	Gauge Line	Diameter			
021AS5076	5076	A2	DC12	36,60	125	EAR	C	100
021AS5078	5078	A2	DC12	36,60	125	EAR	E	100
021AS5072	5072	A2	DC12	36,60	125	EAR	FL	100
021AS5077	5077	A2	DC12	36,60	125	EAR	K	100
021AS5081	5081	A2	DC12	36,60	125	EAR	M	100
021AS5075	5075	PV4	DC12	46,38	125	EAR	FL	100
021AS5074	5074	PV5	DC12	46,38	120	EAR	FL	100
021AS5086	5086	PV5	DC12	46,38	120	EAR	K	100
021AS5085	5085	PV6	DC12	46,38	120	EAR	FL	100
021AS5096	5096	PV6	DC12	46,38	120	EAR	K	100
021AS5079	5079	PV8	DC12	46,55	119	EAR	E	100
021AS5095	5095	PV8	DC12	46,55	119	EAR	FL	100
021AS5073	5073	A2	DC24	36,60	125	EAR	FL	100
021AS5082	5082	PV4	DC24	46,38	125	EAR	K	150
021AS5094	5094	PV5	DC24	46,38	120	EAR	FL	100



WWC5H Series 5 Pistons Compressors

- 5 Pistons Driven
- Fixed Displacement
- The Wobble-plate Drive Mechanism

TECHNICAL FEATURES:	WWC5H11	
Compressor Displacement	Maximum Speed (Temporary)	Maximum Speed (Permanently)
108 cc/rev	7000 rpm/min	6500 rpm/min

Code Nr.	Compressor Model	Clutch				Mounting	Cylinder Head	Oil cc
		Groove	Voltage	Gauge Line	Diameter			
021AS6332	6332	A2	DC12	44,25	125	EAR	C	185
021AS6320	6320	A2	DC12	44,25	125	EAR	BC	135
021AS6333	6333	A2	DC12	44,25	125	EAR	FL	135
021AS6321	6321	A2	DC12	44,25	125	EAR	FL	135
021AS6334	6334	A2	DC12	44,25	125	EAR	K	135
021AS6323	6323	PV6	DC12	46,55	119	EAR	FL	135
021AS6322	6322	PV6	DC12	46,55	119	EAR	K	135
021AS6328	6328	PV8	DC12	46,55	119	EAR	FL	135
021AS6358	6358	PV8	DC12	46,55	119	EAR	K	135
021AS6357	6357	A2	DC24	44,25	125	EAR	FL	135
021AS6356	6356	A2	DC24	44,25	125	EAR	K	135



WWC5H Series 5 Pistons Compressors

- 5 Pistons Driven
- Fixed Displacement
- The Wobble-plate Drive Mechanism

TECHNICAL FEATURES:		WWC5H14		
Compressor Displacement		Maximum Speed (Temporary)	Maximum Speed (Permanently)	
138 cc/rev		7000 rpm/min	6000 rpm/min	

Code Nr.	Compressor Model	Clutch				Mounting	Cylinder Head	Oil cc
		Groove	Voltage	Gauge Line	Diameter			
021AS6642	6642	A2	DC12	39,55	132	EAR	C	175
021AS6620	6620	A2	DC12	39,55	132	EAR	BC	175
021AS5305	5305 *	A2	DC12	39,55	132	EAR	FG	175
021AS6626	6626	A2	DC12	39,55	132	EAR	FL	175
021AS6630	6630	A2	DC12	39,55	132	EAR	K	175
021AS6631	6631	A2	DC12	39,55	132	EAR	M	175
021AS6629	6629	PV7	DC12	46,55	119	EAR	FL	175
021AS6628	6628	PV7	DC12	46,55	119	EAR	K	175
021AS6622	6622	A2	DC24	39,55	132	EAR	BC	175
021AS5306	5306 *	A2	DC24	39,55	132	EAR	FG	175
021AS6627	6627	A2	DC24	39,55	132	EAR	FL	175
021AS6634	6634	A2	DC24	39,55	132	EAR	K	175
021AS6632	6632	A2	DC24	39,55	132	EAR	M	175
021AS6624	6624	B1	DC24	33,85	152	EAR	BC	175
021AS6633	6633	B1	DC24	33,85	152	EAR	FL	175

* Model 5305 and model 5306 equipped with screw type charge valve



WWC7H Series 7 Pistons Compressors

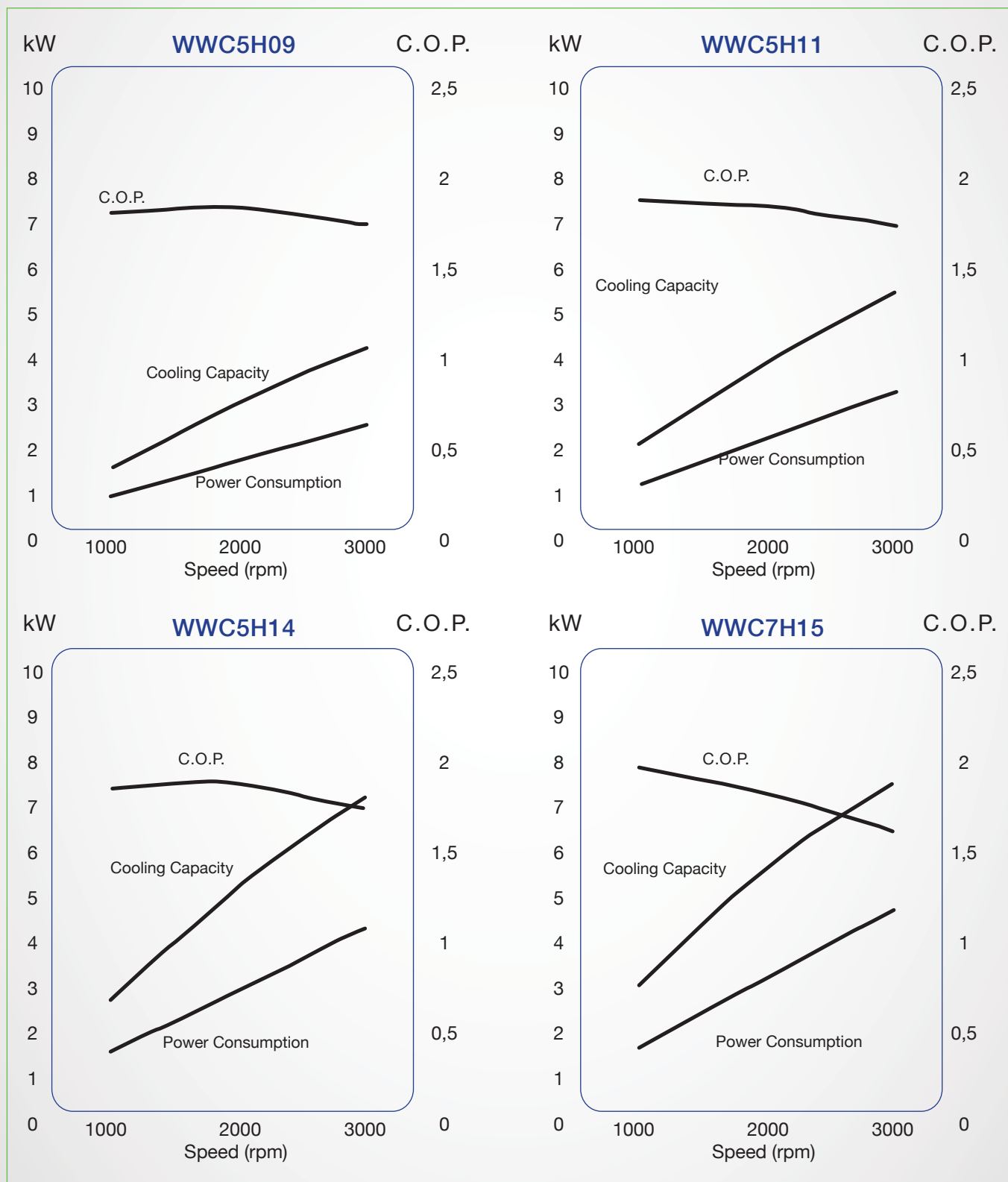
- 7 Pistons Driven
- Fixed Displacement
- The Wobble-plate Drive Mechanism

TECHNICAL FEATURES:	WWC7H15	
Compressor Displacement	Maximum Speed (Temporary)	Maximum Speed (Permanently)
154 cc/rev	7000 rpm/min	6000 rpm/min

Code Nr.	Compressor Model	Clutch				Mounting	Cylinder Head	Oil cc
		Groove	Voltage	Gauge Line	Diameter			
021AS8220	8220	A2	DC12	39,55	132	EAR	JE	135
021AS8227	8227	A2	DC12	39,55	132	EAR	KG	135
021AS8114	8114*	A2	DC12	39,55	132	D/M	WY	135
021AS8070	8070	PV4	DC12	48,92	112	D/M	WN	135
021AS8229	8229	PV6	DC12	46,55	119	EAR	JE	135
021AS8228	8228	PV6	DC12	46,55	119	EAR	KG	135
021AS6006	6006	PV8	DC12	46,55	119	DIRECT	JE	240
021AS8237	8237	PV8	DC12	46,55	119	EAR	MD	240
021AS6027	6027	PV8	DC12	50,10	119	EAR	CB	135
021AS8230	8230	PV8	DC12	50,10	119	EAR	JE	135
021AS8238	8238	PV8	DC12	50,10	119	EAR	KG	135
021AS8239	8239**	A2	DC24	39,55	132	EAR	FZ	207
021AS8126	8126	A2	DC24	39,55	132	EAR	JE	135
021AS8264	8264	A2	DC24	39,55	132	EAR	KG	135
021AS8250	8250	B1	DC24	33,85	146	EAR	JE	135
021AS8245	8245	B1	DC24	33,85	146	EAR	US	135
021AS8246	8246*	B1	DC24	33,85	146	EAR	WP	135
021AS6039	6039	PV6	DC24	46,55	119	EAR	KG	207
021AS6038	6038***	PV8	DC24	46,55	119	EAR	JE	240
021AS8240	8240***	PV8	DC24	50,10	119	EAR	JE	135
021AS8085	8085***	PV8	DC24	50,10	119	EAR	KG	135
021AS8291	8291*	PV8	DC24	56,54	132	DIRECT	WV	135

* Model 8114,8246,8291 equipped with High pressure relief valve
 ** Model 8239 equipped with High pressure relief valve , Bearing cover
 *** Model 6038,8240,8085 equipped with Bearing cover

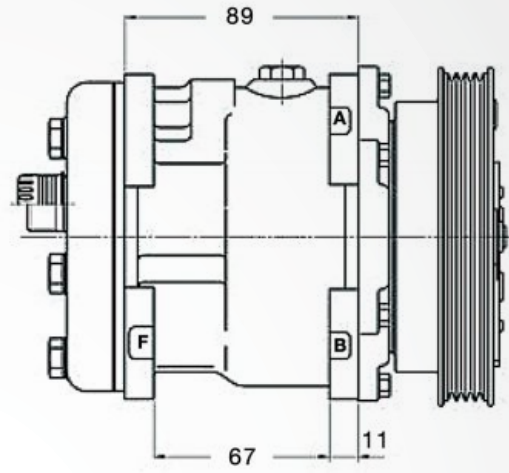
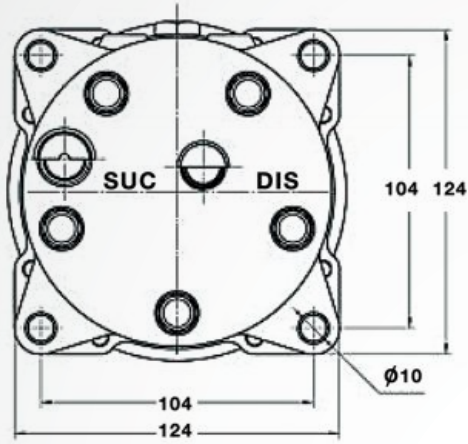
Cooling Capacity & Power Consumption kW



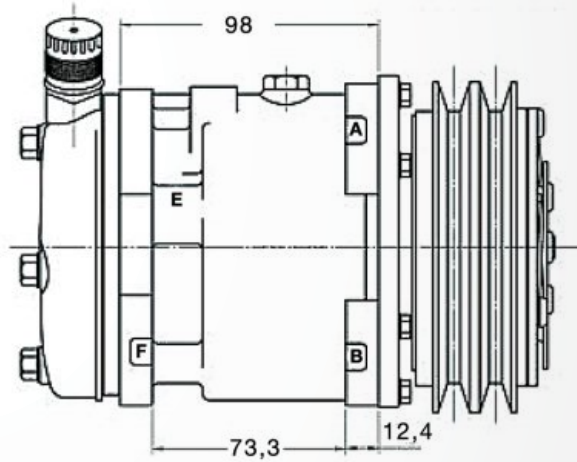
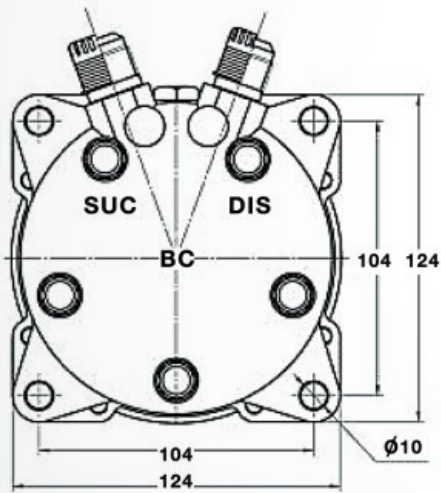
Test Conditions

Suction Pressure : 1,67 MPag Subcooling : 0 K
 Discharge Pressure : 196 kPaG Superheat : 10 K

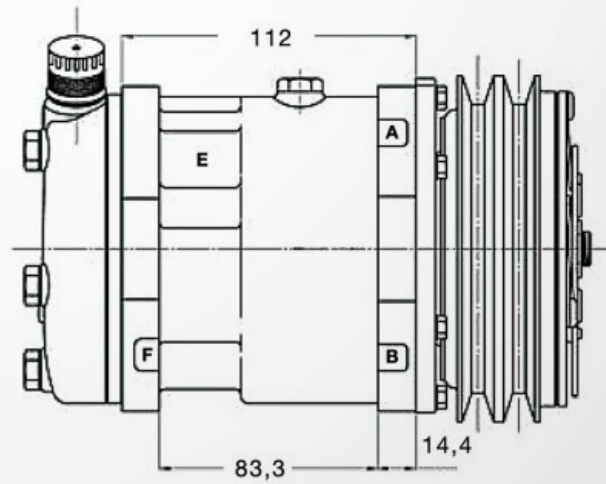
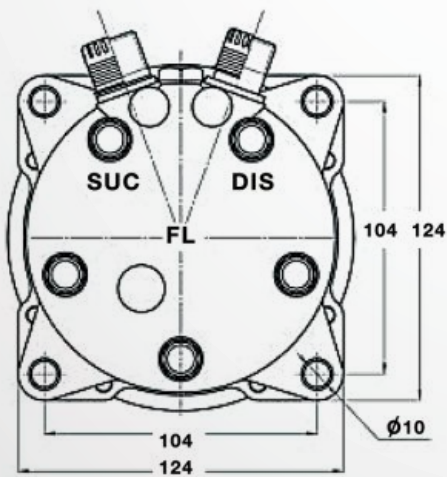
WWC5H09



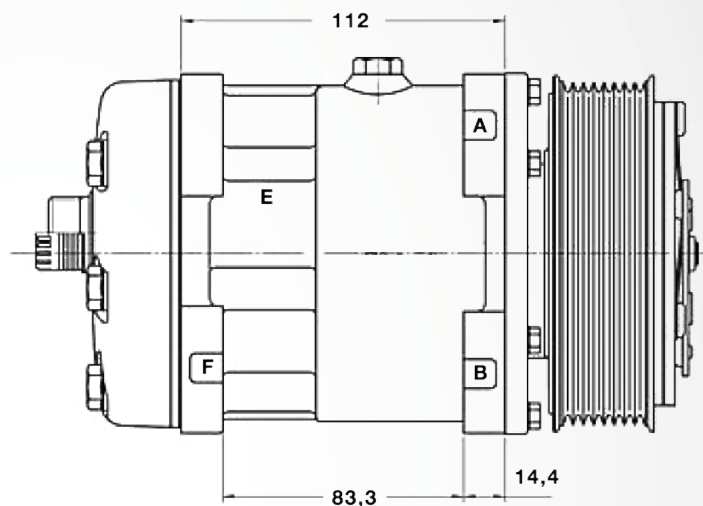
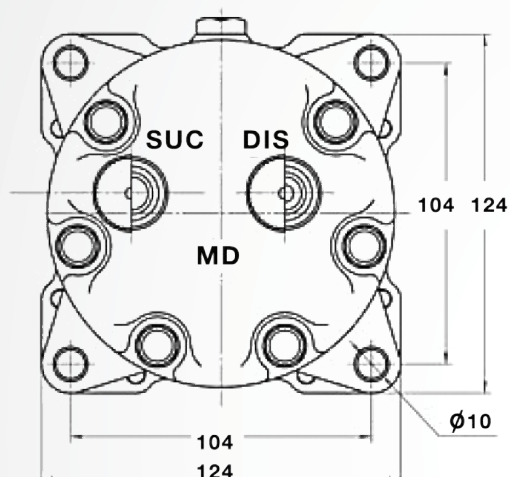
WWC5H11



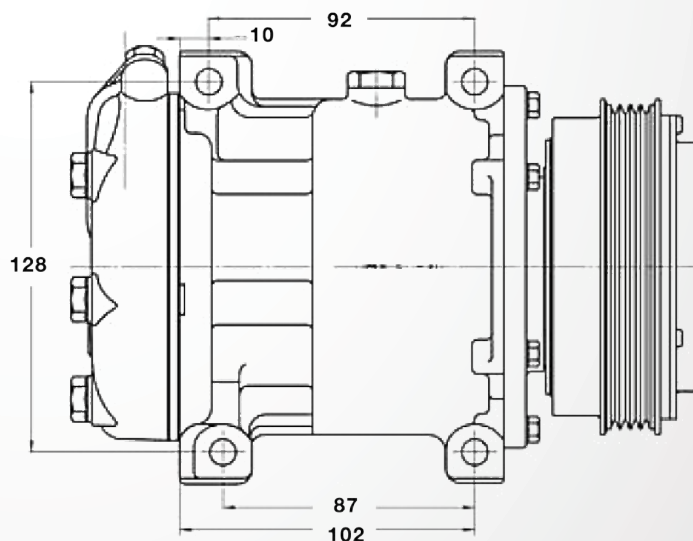
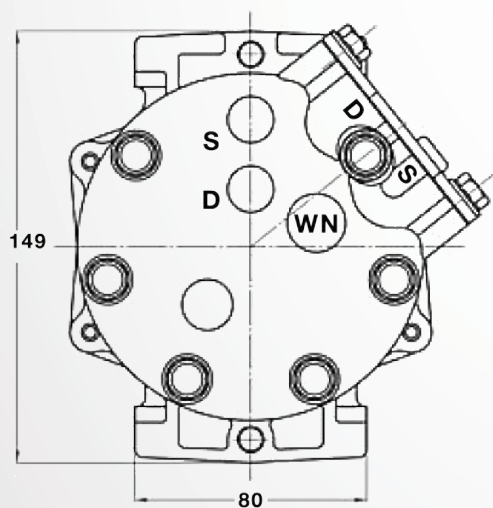
WWC5H14



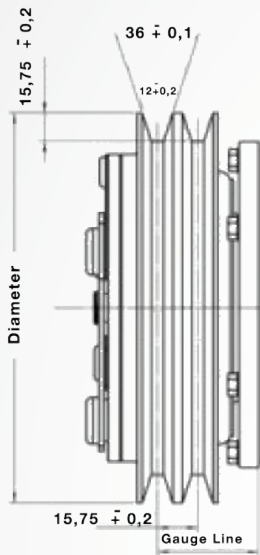
WWC7H15



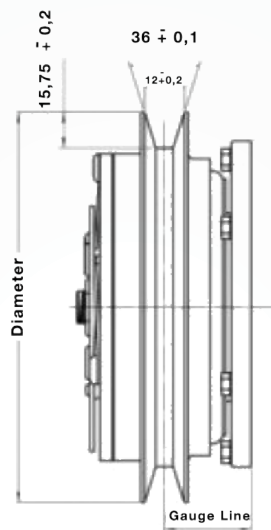
WWC7H15 Direct Mount Type



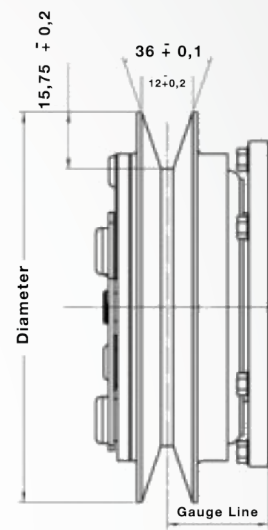
Technical Specifications of the Clutches



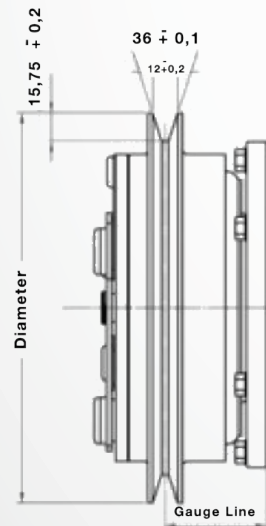
Groove **A** Type



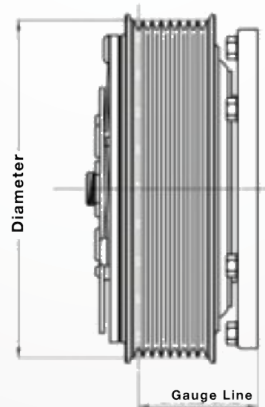
Groove **B** Type



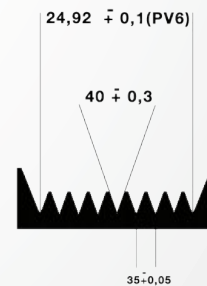
Groove **C** Type



Groove **M** Type



Groove **PV** Type



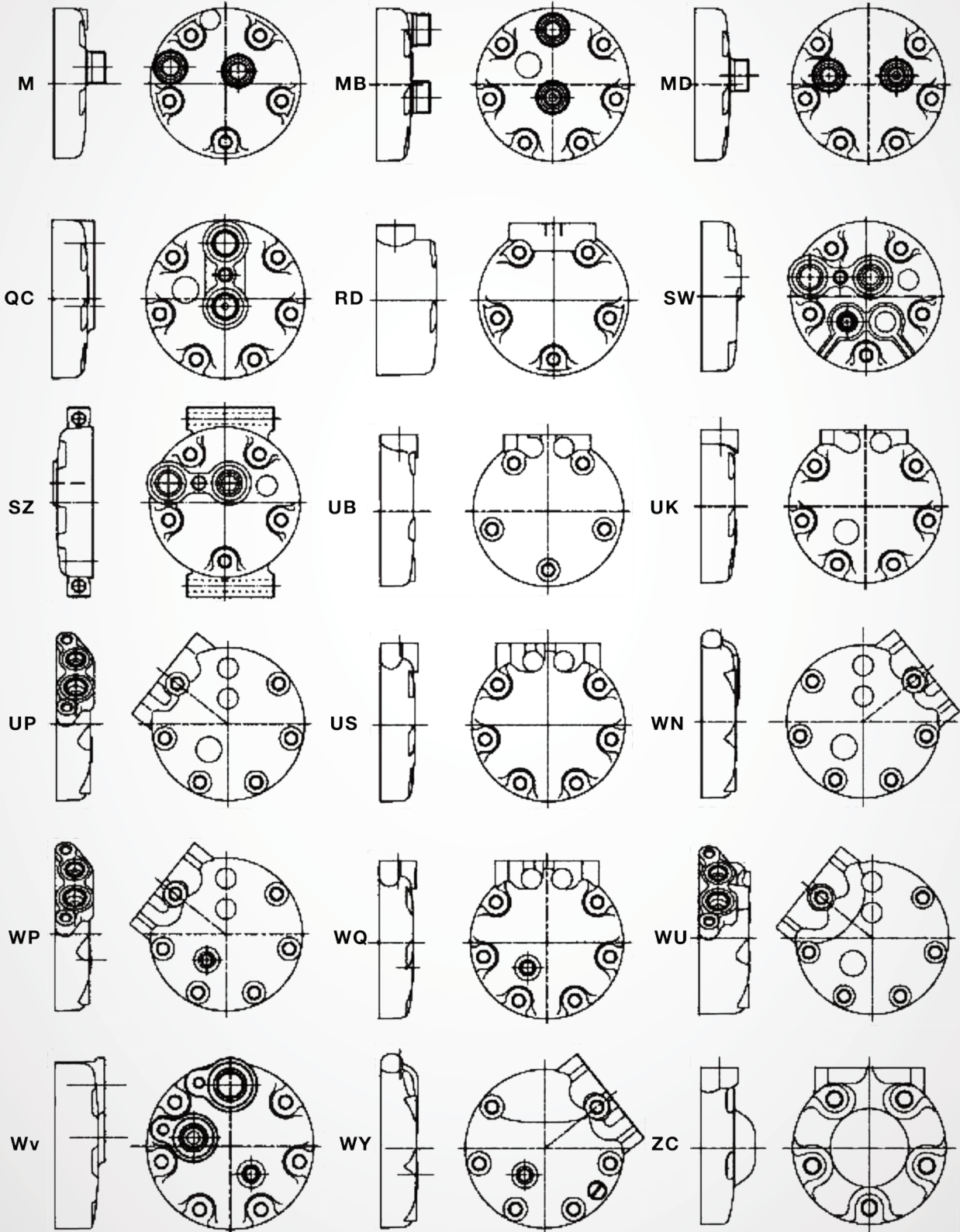
PV Type Detail

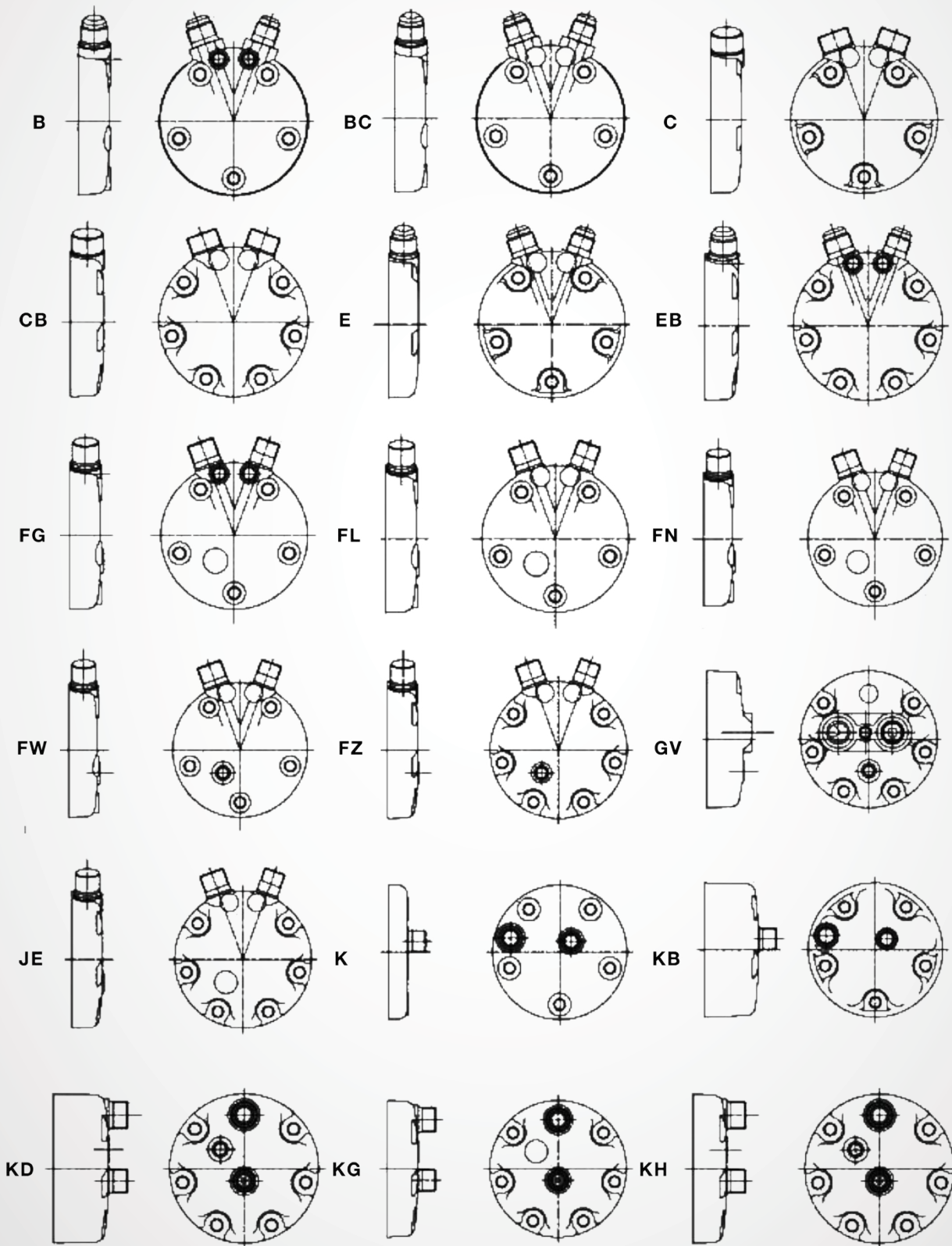


Technical Specifications of the Heads

Series	Stamp	Fittings				Bolt Length	Options
		Orientation	Type	Suction	Discharge		
WWC5H	E	Vertical	Flare	unf 7/8-14	unf 3/4-16	40	A
	B	Vertical	Flare	unf 7/8-14	unf 3/4-16	48	B
	BC	Vertical	Flare	unf 7/8-14	unf 3/4-16	48	-
	UB	Vertical	U type pad	M10XP1,25 (1)		48	-
	RD	Vertical	U type pad	M10XP1,25 (1)		65	-
	ZC	Vertical	UG type pad	M8XP1,25 (2)		40	-
	C	Vertical	Rotalock	uns 1-14	uns 1-14	40	-
	FG	Vertical	O ring tube	unf 7/8-14	unf 3/4-16	48	B
	FL	Vertical	O ring tube	unf 7/8-14	unf 3/4-16	48	-
	FN	Vertical	O ring tube	unf 7/8-14	unf 3/4-16	48	A
	FW	Vertical	O ring tube	unf 7/8-14	unf 3/4-16	48	C
	SW	Horizontal	Q type pad	M10XP1,25 (1)		40	C , D
	SZ	Horizontal	Q type pad	M10XP1,25 (1)		40	-
	M	Horizontal	Rotalock	uns 1-14	uns 1-14	40	-
	K	Horizontal	O ring tube	unf 7/8-14	unf 3/4-16	40	-
	KB	Horizontal	O ring tube	unf 7/8-14	unf 3/4-16	65	-
WWC7H	EB	Vertical	Flare	unf 7/8-14	unf 3/4-16	40	B
	KH	Vertical	Flare	unf 7/8-14	unf 3/4-16	40	C
	UK	Vertical	U type pad	M10XP1,25 (1)		40	-
	US	Vertical	UG type pad	M8XP1,25 (2)		40	-
	WQ	Vertical	UG type pad	M8XP1,25 (2)		40	C
	CB	Vertical	Rotalock	uns 1-14	uns 1-14	40	-
	FZ	Vertical	O ring tube	unf 7/8-14	unf 3/4-16	40	C
	JE	Vertical	O ring tube	unf 7/8-14	unf 3/4-16	40	-
	UP	Angled (51o)*	UG type pad	M8XP1,25 (2)		48	-
	WN	Angled (51o)	UG type pad	M8XP1,25 (2)		48	-
	WP	Angled (51o)*	UG type pad	M8XP1,25 (2)		48	C
	WY	Angled (51o)	UG type pad	M8XP1,25 (2)		48	C
	WU	Angled (51o)*	UG type pad	M8XP1,25 (2)		58	-
	GV	Horizontal	G type pad	M10XP1,25 (1)		48	C , D
	QC	Horizontal	Q type pad	unf 3/8-24		40	D
	WV	Horizontal	WV type pad	M8XP1,25 (2)		48	C
	MB	Horizontal	Rotalock	uns 1-14	uns 1-14	40	-
	MD	Horizontal	Rotalock	uns 1-14	uns 1-14	40	-
KG	Horizontal	O ring tube	unf 7/8-14	unf 3/4-16	40	-	
KD	Horizontal	O ring tube	unf 7/8-14	unf 3/4-16	58	C	
A: For Body Charge Valve Models		B: Charge Valve		C: High Pressure Relieve Valve		D: Flex Adaptor Option	

* Counter clockwise





Cautionary Notes

1.1 Pressure Discharge: Make sure to release the refrigerant from the A/C system with appropriate recovery equipment before disconnecting AC lines. Make sure to relieve the internal pressure first when working on compressors which are separate from the system.

1.2 Recycling Refrigerant: Make sure to use an officially approved refrigerant recovering equipment to capture refrigerant properly and avoid any release to the atmosphere. Use recovery equipments designated for each different type of refrigerant. Do not use the same equipment for different type of refrigerants.

1.3 During recovery of refrigerant: Avoid eye and skin contact with the refrigerant. Use protective glasses and gloves when handling refrigerant and working on A/C system or compressor.

1.4 Well-ventilated Area: Make sure the area you work is well ventilated. Keep away from open flames or flammable materials. Refrigerants and oils can produce poisonous gases in the presence of a flame.

1.5 Compressed Air: Compressed air can cause contamination. Do not apply compressed air into the A/C system.

R134a Gas / PAG Oil Safety guide for handling WANG auto compressors.

2.1 Make sure you follow the cautionary notes on section 1.

2.2 R134a refrigerant is not a threat for ozone depletion however it's a threat for global warming. Avoid releasing R134a gas to the atmosphere. It is mandatory to recover and recycle R134a gas. Do not use the same equipment for different type of refrigerants.

2.3 Avoid mixing R134a gas with other types of refrigerants. It may cause significant damages in A/C system.

2.4 We recommend Wang specified PAG lubricant oil for R134a to use with Wang Compressor. Using other random lubricants may cause significant damages in A/C system.

2.5 Use R134a or PAG oil only in the systems specifically designated for R134a and PAG oil. The exceptions are described

in Conversion from R12 to R134A AC systems.

2.6 Moisture may cause significant damages in A/C system. The WANG recommended PAG oil for R134a system eliminates the moisture.

- Keep the PAG oil container sealed properly after each use and maintain the isolation of the oil from air.

- Make sure all the fitting are capped after A/C system maintenance. Never leave fittings uncapped.

- After maintenance on compressor or R134a system, make sure to evacuate the system minimum 45 minutes before recharging. This enables the elimination of moisture by the PAG oil in compressor and system.

Wang Directives for R12 to R134a conversion

1. Run the air condition system with A/C blower at high speed for 5 minutes to maximize the amount of oil in the compressor.

2. R-12 refrigerant will be ready to be recovered.

3. Detach the compressor from the vehicle.

4. After removing the oil plug on compressor, drain the mineral oil in the compressor. Continue the draining process patiently until you drain as much drain oil as possible.

5. Use a socket wrench to turn the shaft on the clutch armature retaining nut. Make sure to discharge the ports and drain the mineral oil from the cylinder head suction.

6. Detach the R-12 receiver or accumulator dryer from the vehicle and discard. Maintain the oil draining from the A/C hoses as long as possible. A/C hoses older than 10 years are recommended to be changed.

7. Check the receiver or accumulator dryer and replace O-rings with the approved HNBR O-rings.

8. Change the receiver and accumulator dryers with R134a compatible models. Make sure the new ones contain XH7 or XH9 desiccant.

9. Remove any foreign materials found during the CCOT system maintenance. Install an inline filter in the liquid line. During the installation of the filter, maintain the oil draining from the A/C lines as long as possible. Replace the O-rings with the approved HNBR O-rings.

10. Make sure the A/C system and compressor are in good condition.

11. Make sure using the original PAG lubricant oil and the specified oil amount. SP-20 or SP-10 oils are recommended to be added in the compressors.

12. Change the oil plug O-ring on the compressor with a HNBR seal.

13. Make sure the plug seat and O-ring are clean and damage free before reinstalling the compressor oil plug. Plug torque: 11-15ft-lb (15-20N-m, 150-200kgf-cm).

14. Make sure all seals on the compressor ports are approved HNBR seals.

15. Install the compressor to the A/C system, evacuate at least 45 minutes to a vacuum of 29in. Hg. Use R-12 equipment to remove the R-12 gas from the mineral oil.

16. Make sure all equipment and service fittings are compatible with R134a. Replace all the equipments and fittings from R-12 to R134a compatible.

17. Install R134a compatible hoses and all the other necessary equipment. Re-evacuate the system for 30 minutes.

18. Recharge R134a gas to the system 5% less weight than the R-12 amount. Make a leak check under SAEJ1628 procedure.

19. If any foreign material is found in the system, follow the instruction written on step 9 and run the system for 60 minutes to filter this material. Recover the material and dispose the filter, reconnect the lines, evacuate min 45 minutes and recharge the system. This process is not necessary for TVX systems.

20. Make sure the A/C system is working with the right temperature and pressure parameters. This gives an idea to understand the right amount of R134a gas is charged.

21. In case of the low cooling performance or high discharge pressure, add more condensing capacity to the A/C system. Electric fans and/or larger capacity condenser can be used.

22. Make sure all R-12 labels are replaced with retrofit R134a labels determined in SAE J1660.



AGENCY

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