

COOLTEC[®]
Group Of Companies

COOLTEC INDUSTRIES SDN BHD (405246-X)
COOLTEC MARKETING SDN BHD (570277-W)
ASSOCIATED FIRST RUBBER (M) SDN BHD (524138-X)

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"QUALITY PRODUCTS with PROMPT and TIMELY DELIVERIES"

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INTRODUCTION

The company was found in 1989. COOLTEC INDUSTRIES SDN. BHD. started off from humble beginnings, servicing and installation of car air conditioning system. From the knowledge obtained over the years, COOLTEC had in 1993 ventured into manufacturing, wholesales and distribution of car air conditioning components, parts and accessories.

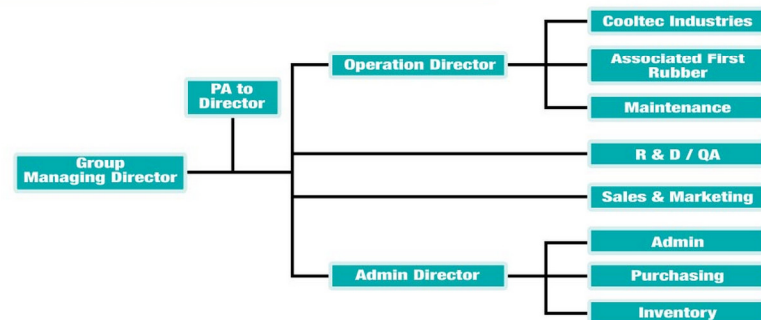
COOLTEC has devoted years of experience and expertise to supply its products to local OEM car makers, the replacement and the international markets. Presently our products, Electronic Thermo Control, Sensors, Variable Resistors, Rubber O Rings, Radiator Gaskets & Molded Rubber Parts are widely used in Proton Exora, Iswara/Wira/Waja/Satria/Arena/ Juara/GEN-2, Perodua Myvi, Perodua Alza, Mazda Lantis, Mazda B Truck, MTB Truck, Inokom Van, Suzuki Van, Tata Truck, Isuzu Truck & FVR Truck. Our parts are also widely used in Toyota Crown and Nissan Cedric in Singapore, Toyota Kijang in Indonesia and Hyundai Getz in South Africa.

COOLTEC MARKETING SDN. BHD. was officially established in 2003 as the marketing arm of COOLTEC INDUSTRIES SDN. BHD. COOLTEC MARKETING is a 100% owned subsidiary company of COOLTEC INDUSTRIES SDN. BHD. The Company caters the requirement of the local replacement markets. The company has extensive marketing networks throughout the country. Its wide marketing network has enable the Company to become one of the pioneer in the automotive air-condition industries.

ASSOCIATED FIRST RUBBER (M) SDN. BHD. was officially established in 1999. ASSOCIATED FIRST RUBBER is a joint venture between FIRST RUBBER CO. LTD. of Thailand and COOLTEC INDUSTRIES SDN. BHD. FIRST RUBBER CO. LTD. was first established in Taipei, Taiwan in 1972 and in 1992 transferred its entire operation to Bangkok, Thailand. ASSOCIATED FIRST RUBBER (M) SDN. BHD. specializes in the manufacturing of Rubber O Rngs, Rubber Packing, Rubber –Metal Bonded Parts and Custom-Molded Rubber Parts. The Company obtained the prestigious ISO 9001:2000 Quality Management System in the year 2003 and now looking forward for the ISO/TS 16949:2009, to achieve latest by 2010.



Organization Structure



COMPANY PROFILE

Company Address No. 43, 45, 47, 49, Jalan Sesama, Taman Perusahaan Ringan, 68100 Batu Caves Selangor Darul Ehsan, Malaysia.
Tel: (603) 6186-9969, (603) 6186-3396, (603) 6186-3378 Fax: (603) 6186-6086
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Contact Person - **Mr. KK Yeaw** (Managing Director)
kkyeaw@cooltecindustries.com
- **Mr. Hing Joo Cheong**
(Sales & Marketing Manager)
jching@cooltecindustries.com

Engineering Design AUTOCAD 2010
AUTODESK INVENTOR 2010

Factory Build-Up Area 6840 sqm or 22440 sqf

Paid-Up Capital RM 500,000

Technical Associate & Support **Control Switch Panel / HCAC:** Taiwan Auto Air Limited (Taiwan)
Thermistor: MMC (Malaysia)
Rubber Product: Rubber Research Institute of Malaysia (RRI) & First Rubber Co. Ltd. (Thailand)
Hose & Fitting: Jhia Yang Industrial Co. Ltd. (Taiwan)

Management System - ISO 9001 (Certified in 2003)
- ISO/TS 16949:2009 (Estimated to be certified in 2010)

Total Employees 95

Average Age Group 35



BUSINESS PROCEDURE

- 1** CTI **visits** customers to explore what will be the future need of the customers.
- 2** Customer **requests** CTI to develop new application.
- 3** CTI considers what is the best application and to determine quality and feasibility plan for the idea. CTI presents the **idea** to the customer. Design concept differences are resolved.
- 4** Upon customer's acceptance on the idea, CTI develops **prototype** for design confirmation.
- 5** Designer evaluates the prototype. Prototype is submitted to customer for evaluation and CTI **improves the sample** if necessary.
- 6** Upon confirmation on the design, CTI fabricates mass production **tooling**.
- 7** CTI evaluates the **sample** and submits the samples to customer for acceptance. **Quality plan** is reviewed.
- 8** **Mass-production** is started upon obtaining the customer's acceptance. In-process quality control is performed to ensure its conformance.
- 9** New products are **delivered** to customer.

GROUP VISION

It is the Group Vision to be a major and leading player both locally and internationally in the automotive air conditioning parts, accessories and components industries in the years to come.

GROUP MISSION & SERVICE

It is the Group Mission to provide service SECOND to NONE to all its valuable customers. If you are looking for automotive air conditioning components, parts, accessories, rubber o rings and custom-molded rubber parts, WE stand at all times to serve you with its forever motto: (QUALITY PRODUCTS with PROMPT and TIMELY DELIVERIES).

QUALITY POLICY

We as a company of manufacturing/assembly of automotive air-conditioning part, components and accessories, O-ring, custom made rubber part for all industries are committed to serve our customer with excellent quality products and timely delivery through uncompromising commitment towards total customer satisfaction and continuous improvement.

- We shall also:
- i) Improve quality, productivity and reliability
 - ii) Meet customer general requirements and ISO 9001 requirement
 - iii) Minimize cost
 - iv) Continually improve effectiveness of the quality management system
 - v) Establish quality objectives at relevant functions
 - vi) Periodically review the Quality Policy and Quality Objective

CUSTOMER SERVICE

The Group approach to customer is simple; to serve as a reliable business partner. Your business goals, expectations and achievements are our priority. We believe that efficient customer support and technical quality are essential in our organization. Our resources are totally dedicated to high quality - from conception to consumption.

OUR STRENGTH

- i) Innovative.
- ii) Young and aggressive team.
- iii) Commit to QUALITY is our top priority.
- iv) Act fast in meeting customer's requirement.
- v) Offer best price & best services.
- vi) Majority are new precision machines in production line.
- vii) Self support production facilities enable better flexibility in meeting customer's requirement.



RESEARCH & DEVELOPMENT

The Group is keeping abreast and acquiring the latest equipment and technology for its R&D department. The Group is constantly developing new products to meet to the ever-changing market demand.

APQP is applied during the development.

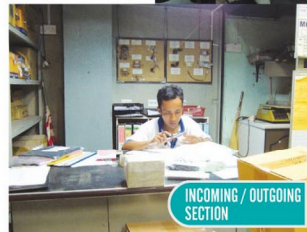
Available Software : Autodesk Inventor 2010
Autocad 2010



QUALITY CONTROL & QUALITY ASSURANCE

Quality Control is the operational techniques and activities that are used to fulfill requirements for quality. The techniques applied in our organization are Histograms, Cause & Effect Diagram, Check Sheets, Pareto Diagrams, Graphs, and Control Charts. The Quality Control covers the products, reactive, focus on the line function and finding defects.

Quality Assurance covers all those planned and systematic activities implemented to provide adequate confidence that an entity will fulfill requirements for quality. The Quality Assurance covers the process, proactive, focus on the staff function and prevention of defects.



PRODUCT RANGE Cooltec Industries

HOSE & PIPING

Description: A route that let the refrigerant flows through in the air-conditioning system.

Feature : All sizes and types are available in all condition, which are for high or low pressure purpose.

Application : General purpose for automotive industries.



ELECTRONIC THERMO CONTROL

Description: A device that controls the temperature of passenger compartment and prevent freezing at cooling coil.

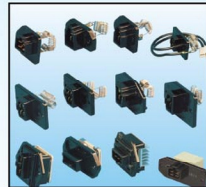
Application: General purpose for automotive industries.



RESISTOR & RESISTANCE BLOWER

Description: This part function is to enable the blower motor to operate at its selected speed.

Application: General purpose for automotive industries.



CONDENSER FAN MOTOR

Description: The motor that is used to run the cooling fan of condenser.

Application: General purpose for automotive industries.



BLOWER MOTOR ARMATURE

Description: Receive the signal from resistor and will operate the blower to follow the signal.

Application: General purpose for automotive industries.



BLOWER MOTOR

Description: The cool air is drawn in from the blower motor. Then, is blown out and recycled through the cooling coil back to the car compartment.

Application: General purpose for automotive industries.



CONTROL SWITCH ASSEMBLY

Description: Switch to control the blower motor speed.

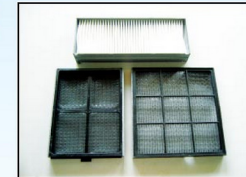
Application: General purpose for automotive industries.



CABIN AIR FILTER

Description: To clean the smoke, pollen and air borne contaminations odour and gaseous pollutants.

Application: General purpose for automotive industries.



WIRE HARNESS ASSEMBLY

Description: A medium that is used to connect the controller and the system.

Application: General purpose for automotive industries.



UV LEAK DETECTOR

Description: This unique automobile air-conditioning system leak detector kit is used for the detection of tiny leaks within system

Feature: Leak is easily detected, thus saving valuable man hours.



METAL STAMPING

Description: Metal stamping part e.g.: bracket, motor lower casing, motor upper casing, etc.

Mold Manufacturing: Design, manufacture, and development of high performance molds to produce consistently precise, high volume parts.

Contract Manufacturing: Value added contract manufacturing services for assembly of mechanical and electro-mechanical products.



PLASTIC INJECTION PARTS

Description: Customer focused project engineering to mold complex, precise functional thermoplastic part.

Application: Catering to the consumer, electronics, multimedia and automotive industries.

Mold Manufacturing: Design, manufacture, and development of high performance molds to produce consistently precise, high-volume parts, Multi-Cavity, Cold Runner, Semi-hot Runner, Fully hot Runner.

Contract Manufacturing: Value added contract manufacturing services for assembly of mechanical and electro-mechanical products.

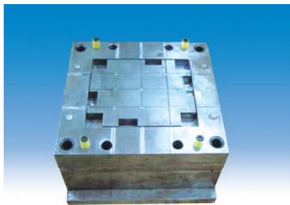
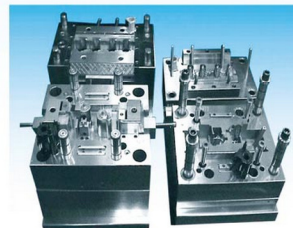


MOULD SECTION

Description: Involve in fabrication, maintenance and service of jig and mould.

Mold Manufacturing: Design, manufacture, and development of high performance moulds to produce consistently precise, high-volume parts, Multi-Cavity, Cold Runner, Semi-hot Runner, Fully hot Runner.

Application: In-house mould and jig maintenance or repairing will reduce production waiting time, enhance can increase productivity.



LIST OF MACHINERY

● Automatic Double Flier Armature Winding Machine	1 Unit
● Single Flier Winding Machine	3 Units
● Epoxy Coating Machine	1 Unit.
● Commutator Welding Machine	1 Unit.
● Electric Oven	2 units
● Automatic Commutator Cutting Machine	2 Units
● Hydraulic Press Machine	2 Units
● Armature Balancing Machine	3 Units.
● Automatic Wire Cutting Machine	1 Unit.
● Terminal Crimping Machine	5 Units.
● Magnetizing Machine	1 Unit.
● Condensor Fan Motor Theater 1 & 2	1 Unit
● Videolet Excel 170I Inkjet Printer	1 Unit
● Roll Forming Machine	1 Unit
● Strip Cutter	1 Unit
● Grant Constant Temperature Bath	1 Unit
● Push Pull Jig 1Kg / 10 Kg	1 Unit
● CNC Auto Bending Machine	1 Unit
● Sleeve Clamping Machine	1 Unit
● Sleeve Crimping Machine	1 Unit
● End Forming Machine	1 Unit
● Etc...	

LIST OF EQUIPMENT

● Ammeter	1 Unit
● Manual Test For Test Cube	3 Units
● Cable Wire Harness Tester	1 Unit
● Armature Function Tester	1 Unit
● Blower Switch Function Tester	2 Units
● Blower Switch Potential Tester	2 Units
● Enhanced Video Measuring System	2 Units
● Thermo Amp Finish Tester	3 Units
● Wire Harness Tester	1 Unit
● Blower Switch Tester	5 Units
● Resistor Tester	1 Unit
● Condenser Fan Motor Function Tester	1 Unit
● Thermostat Tester	1 Unit
● Thermistor Tester	1 Unit
● VSV Leak Tester	1 Unit
● VSV Vibration Tester	1 Unit
● ICT Tester	1 Unit
● RPM Speed Tester	1 Unit
● Etc ...	



PRODUCT RANGE *Associated First Rubber*



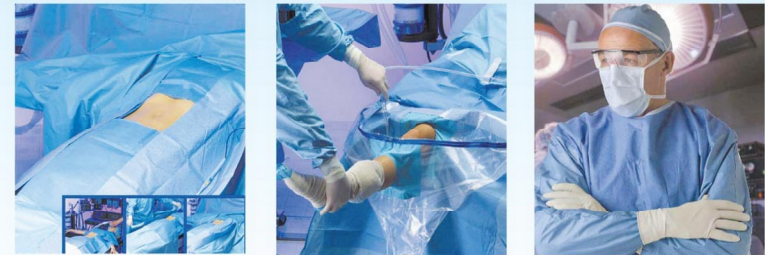
NO	PART	FEATURE	APPLICATION	MATERIAL
1	O-Rings	Commercial o-ring, aerospace o-ring, military specification o-ring, automotive o-ring, air-condition compressor o-ring and customized sized o-ring.	Use for both static and rotational sealing and also use for hydraulic actuator seals, transmission seals, oil and water pump seals.	NBR, CR, Vamac, HNBR, EPDM, Silicone and Viton
2	O-Ring Kit	O-ring sealing compact set for general renew upgrade or repairing purpose.	General purpose for machine shop, plumbing and engineering maintenance.	NBR, Silicone, Viton, HNBR of 70,90 DurometerShore A
3	Grommet	Weathering and temperature resistance, high tension strength, corrosion resistance, antivibration, support and dust protector.	General support with bolt and nut for automotive condensing unit, air-condition, mounting base support for anti vibration.	NR, SBR, CR, Silicone, NBR and EPDM.
4	Fabric Diaphragm	Precious dimensional for on-off pressure gas or fluid controlling, reinforcement heavy duty and high corrosion resistance.	Apply as the valve for open-close regulator pressure control for gas or pressured switch instruments and vacuum equipments.	NBR, EPDM, CR, IIR, Silicone and Viton
5	Lip Seal	Cement coated with metal case or spring, high mechanical strength, sealant and rusty resistance.	Hydraulic seals, vacuum seals, engine – motor shaft, transmission seals or any other oil seals application.	NR, SBR, CR, Silicone, NBR and EPDM.
6	Custom Molded Part	Customized molding and specified application such as sealing system, anti-vibration function, and other purpose.	Functional and performances testing refer to OEM's specifications and support high tensile strength application.	NR, HNBR, NBR, CR, SBR, ECO, EPDM, Silicone, Viton and Vamac

Mold Manufacturing: Design, manufacture, and development of high performance molds to produce consistently precise, high-volume parts. Multi-Cavity or single cavity is capable.

Contract Manufacturing: Value added contract manufacturing services for assembly of mechanical and electro mechanical products.

PRODUCT RANGE *Cooltec Marketing*

Surgical Apparel



Isolation Gown

Surgical Gown

Scrub Wear

Headwear

Footwear

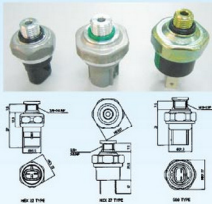
Hospital Surgical Disposable Protective Apparel, Drapes, Gowns and Standard Packs (Latex Free).

DUAL PRESSURE SWITCH

Application: Car air conditioner

Feature: This switch is installed to receiver drier to prevent of over load in compressor due to abnormal low / high pressure of refrigerant. Dual action pressure switch operating both low and high pressure.

Type	Used Refrigerant	Operating Pressure (kg/cm2)				Application Temp Range	Insulation Resistance	Electronic Ratings
		Low		High				
		Off	Diff	Off	Diff			
SHDP 101	R-134a	2.0±0.2	0.25	32±2.0	6±2	-30~120°C	100MΩ (DC500V)	DC12V, 3.5A DC24V 1.7A
SHDP 201	R-134a	2.0±0.2	0.25	32±2.0	6±2			
SHDP 501	R-134a	2.0±0.2	0.25	32±2.0	6±2			

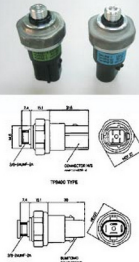


TRINARY PRESSURE SWITCH

Application: Car air conditioner

Feature: This switch is installed to receiver drier to prevent of over load in compressor due to abnormal low / med / high pressure of refrigerant. Triple action pressure switch operating low, medium, high pressure.


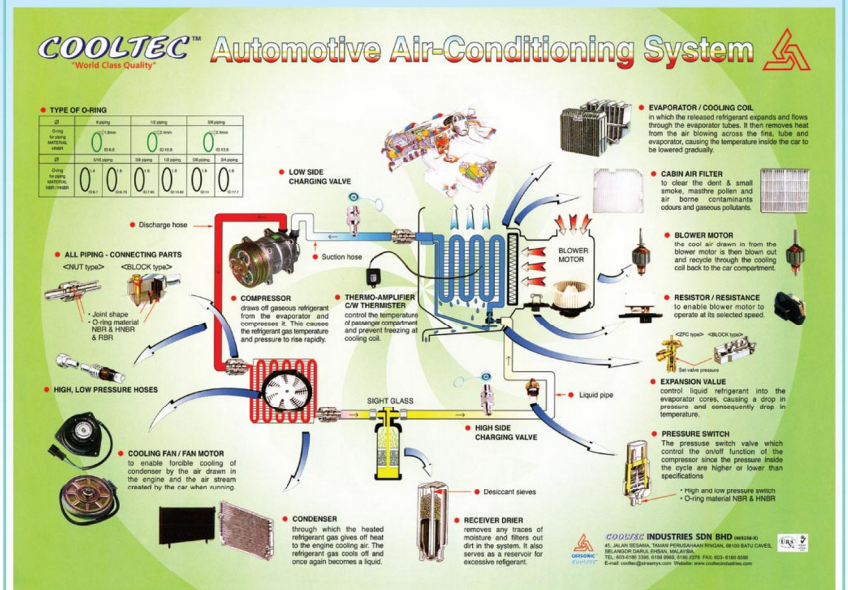
Type	Used Refrigerant	Operating Pressure (kg/cm2)						Application Temp Range	Insulation Resistance	Electronic Ratings
		Low		Medium	High					
		Off	On	On	Off	Off	Diff			
TPS-401	R-134a	2.0±0.2	2.3 +0.25 -0.29	15.5±0.8	11.5±1.2	32±2.0	6	-30~120°C	100MΩ (DC500V)	HI/LOW DC12V, 250mA Medium DC12V,1A
TPS-402	R-134a	2.0±0.2	2.3 +0.25 -0.30	18.0±0.8	14.0±1.2	32±2.0	6			
TPS-403	R-134a	2.0±0.2	2.3 +0.25 -0.29	15.5±0.8	11.5±1.2	27±2.0	6			
TPS-601	R-134a	2.0±0.2	2.3 +0.25 -0.29	15.5±0.8	11.5±1.2	30±2.0	6			



NORMAL THERMOSTAT

General Description :

TYPE	GNF	GNA	GNB
Application	Refrigerator Show Case Water Cooler / Car Cooler / Freezer	Air Conditioner Show Case	Boiler Vending Machine
Temperature extent	-30 ~ 20°C	-20 ~ 40°C	0 ~ 90°C
On, Off Diff	3 ~ 12°C	3 ~ 7°C	3 ~ 8°C
Electrical Ratings	AC125V~250V 6A/4A FLA, 24/16 LRA	AC125V~250V MAX 20A FLA, 80 LRA	AC125V~ 250V MAX 20A FLA, 80 LRA
Certified Electrical Safety	UL, CUL (E 151837) VDE (128519, 126830)	UL, CUL (E 151837) VDE (128519, 126830)	

MAJOR CUSTOMER WORLDWIDE

The Countries We Export

