

Another Thing being achieved for the first time by Alarko Carrier in Turkey:

Diver Pumps Experiment Laboratory Accreditation Works are Completed

Adequacy of Alarko Carrier Diver Pumps Experiment Laboratory, Diver Pumps Hydraulic Performance (TS EN ISO 9906) and Motor Insulation Resistance Experiments (TS 11146) have been accredited by TÜRKAK (Turkish Accreditation Institution) as per TS EN ISO 17025 starting from the date of 28th of March 2006.

Alarko Carrier Diver Pumps Experiment Laboratory is the first and single laboratory being accredited in our country for clean water in diver pumps sector. Besides while providing testing services for production of diver pumps Alarko Carrier is also providing services to individuals, institutions and associations wishing to have testing in topics within scope of accreditation with its autonomous structure.

Within the process we are, accreditation works are continued without any obligations, as being completely based on voluntary platform. What is expected at first stage is for the conditions in free market economies where conformity assessment services are provided to cause for laboratories and certification institutions owned by public or private institutions to become accredited. As the number of accredited institutions and associations increase, it is expected for public authorities to make accreditation become an obligatory application.

In order for the produced and sold products not to threaten the life and property safety of consumers and not to damage the environment, there is requirement for them to comply with technical regulations and standards. This is a general rule and it can be mentioned about two dimensions being international and national. On international ground World Trade Organization (WTO/DTÖ), European Union, APEC and NAFTA have taken a series of measures regarding economic blocks in order to ensure that experimenting, examination and certification works being shortly named as "Conformity Assessment" are realized as per international criteria.

Among these "Technical Barriers Agreement in Trading (TBT) being realized by WTO bears significant value In order to ensure that institutions getting conformity assessment

services operate as per relevant international criteria, condition to establish their accreditation systems is brought for countries signing the agreement. In addition, there is the condition to comply with relevant legislations and practices of EU being stated in European Customs Union Agreement of which we are a part, in relation to topics of standardization, certification and metrology.

On national ground as being parallel to these developments, in addition to eliminating commercial barriers such as quotas, customs taxes being applied in practice, avoiding the negative impact on international trade that can be caused in the form of obstacles outside the scope of tariffs in relation to standards and technical regulations being prepared for consumer safety and environment protection comes out as an important particular.

As Alarko Carrier in order not to be influenced from international barriers and restrictions and to improve customer satisfaction and safety in line with our quality policy, on the date of 28th of March 2006 we completed Dalgıç Pompa Experiment laboratory accreditation works. Being the first and only laboratory that is accredited in its sector, Diver Pumps sustains our feature of being first and pioneering which we have started in 1974 with first local production.

Alarko Carrier TÜRKAK Certificate

Alarko Carrier Diver Pumps Experiment Laboratory has been accredited by TURKAK (Turkish Accreditation Institution) on the date of 28th of March 2006.

Accreditation scope:

- Diver Pumps Hydraulic Performance Experiment as per TS EN ISO 9906 standard,
- Motor Electrical Motor Insulation Resistance Experiment as per TS 11146 standard.



Turkish Accreditation Institution

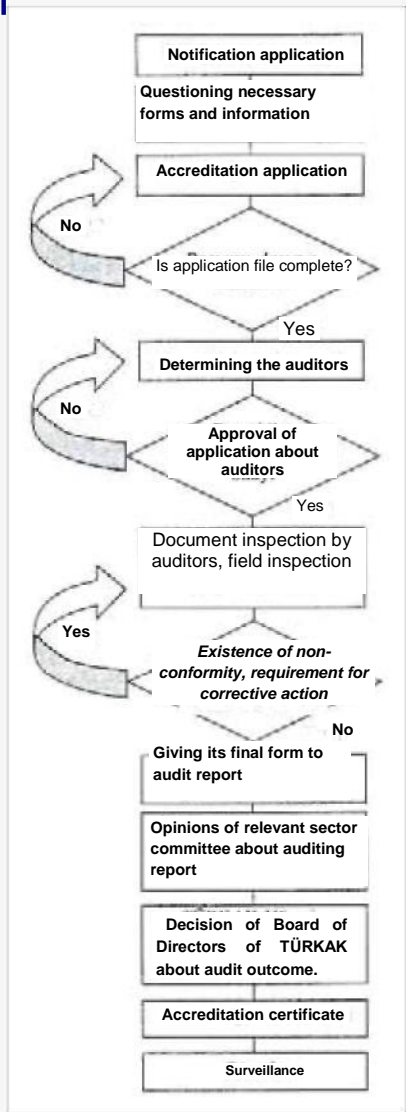
It is required for a product that is launched to the market to comply with technical regulations and standards in order not to threaten life and property safety of consumers and to protect the environment. Ensuring that testing works realized within scope of inspection works of official authorities being conducted within institutions that determine conformity of products with relevant technical regulations and standards, examination departments taking part in these processes and relevant laboratories are realized by departments having adequate power of experts and quality system has been deemed as a public assignment. Accreditation institutions constituting an important tool in fulfilling this task have been authorized as official authorities as per relevant legal regulations.

Features of accreditation institutions such as their fulfilling the tasks assigned by legal regulations in an unbiased way, their having administrative and financial independence, their obtaining necessary aids from general budget, and representation of economic operators being effected by accreditation services are specified in European Standard with no TS EN 45010.

Compliance of National Accreditation Institutions and systems with the features that are defined in relevant international standards bears significant importance with respect to acceptability of accreditation processes.

In order to ensure that institutions dealing with conformity assessment activities operate as per common technical principles and rules and that certificates and reports submitted by those institutions adequacy of which can be determined as per international criteria can be recognized reciprocally, many countries have established accreditation departments regulating conformity assessment field.

In our country in order to accredit conformity assessment activities Turkish Accreditation Institution (TURKAK) has been established on the date of 4th of November 1999 as per the law with no 4457.



Flow Chart of Accreditation Processes

Alarko Carrier Diver Pumps Experiment Laboratory

Total number of experiment laboratories being certificated by TÜRKAK (Turkish Accreditation Institution) is 69 and only laboratory where Diver Pumps performance tests (TS EN ISO 9906) can be conducted is at Alarko Carrier. In this laboratory that is not even within the body of TSE;

- As per TS EN ISO 9906 Standard Diver Pumps Hydraulic Performance Experiments can test motor pumps having diameters in interval of 4"-14", max debit of 500 lt/sec, max pressure of 400 mSS, and having max. Power of 220 Hp.

At the laboratory three different debit measurement lines have been established depending on hydraulic pump capacities. On these lines debits are measured with electromagnetic flowmeters. Pressure adjustments are made with electrically controlled motorized valves.

- According to TS 11146 Standard Electrical Motor Insulation Resistance Experiments are conducted and diver pumps that are produced are adequately tested.

At the laboratory in the insulation resistance measurement of motor pumps, 1000 V DC digital insulation resistant measurement device is used. Devices that are used in experiments are maintained two times in a year and their calibration situations are monitored within context of calibration procedure with no 2.021 being stated in ISO 9001 K.Y.S. Devices are labeled and defined in a way to include final calibration date and the future calibration date.

Results of experiment or experiments being conducted by laboratory are specified in a report in a correct, clear, precise and unbiased way in accordance with all private instructions of experimenting methods. Outcomes are presented in the form of an experiment report. It contains all information requested by customers and required to interpret experiment results and all information necessary relating with the method being used. Experiment reports are published on paper form as approved in a way to meet the conditions of TS EN ISO/IEC 17025 standard.

While Alarko Carrier Diver Pumps Experiment Laboratory can provide testing services relating with the production of Alarko Carrier Diver Pumps, it can also provide services to people, institutions and associations wishing to conduct tests regarding topics within context of accreditation works of clean water Diver Pumps with its autonomous structure within the body of Alarko Carrier.

