



Petrotec

CleanAIR

by Petrotec

Revolution in Fuel Vapour Recovery (Phase II)



C.E.C.O.D
COMMITTEE OF EUROPEAN MANUFACTURERS
OF PETROLEUM MEASURING AND DISTRIBUTING EQUIPMENT

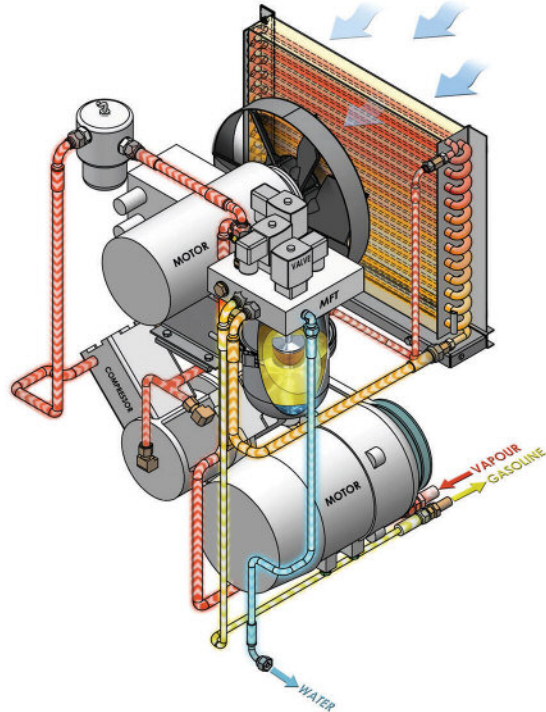


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Petrotec is continuously improving its products. Changes on the specifications may occur without prior notice.

PETROTEC MARKETING TEAM 2008





Description of the CleanAir process:

- The vapour comes in through the hose and after being filtered, it is channelled to the compressor;
- The vapour is pressurized inside the compressor, with a resulting temperature rise. It is then led to the heat exchanger, where it is cooled down due to the blowing air coming from the fan, originating the condensation of the vapour.
- As a result from the condensation process, one obtains not only gasoline in liquid phase, but also water and air. This compound is guided to the MFT (Multi Function Tank) where the separation occurs. Since the water has higher density, it stays on the bottom of the MFT, allowing the gasoline to rise up. For a complete separation of these two products there is a filter that allows the suction of the gasoline and prevents the passage of the water. The air inside the chamber is blown out.
- Finally, we obtain gasoline in its pure state, which is sent back to its origin.



Revolution in Fuel Vapour Recovery (Phase II)

Petrotec has recently launched a revolutionary vapour recovery system, which not only allows for the recovery of previously lost value in the form of pollution, but also its recycling. The system named CleanAir® is being manufactured at the Guimarães factory, under the highest ISO 9001:2000 quality and ATEX safety standards.

Worldwide various clients are installing this new technology in their petrol stations with amazing results. A solution which is based on a profitable system, consisting of recycling the vapour emitted by the petrol, transforming it into liquid fuel, directly in the pump (in pump version) or in the stand alone unit positioned on the island (cabinet version). Not needing piping systems for the collection from phase II to the tanks, or additional building works, this system excels as an environmentally friendly solution, which meets the new European Union regulations (Phase II COV).

At its origin, this solution transforms the vapour into energy for sale and consequent use and distribution. Based on a unique technology, the investment return can be achieved in the very short term, resulting in a profitable business for the user. The efficiency of the vapour collection was measured by means of inspection made by an exterior duly accredited entity. The system is currently available for installation in almost all petrol pump models on the market, in the submersible or the group pump version.

Technical Specifications

- Weight: 110Kg
- Dimensions: 526 x 511 x 857 mm
- Working Pressure: 4,5 Bar
- Power Supply: 1,1 KW
- Tri-phase or Single-phase Connection



Euro 4000 with CleanAir Inpump.

Real benefits for Clients:

- Prevents overpressure developing in tanks, a common problem with other vapour recovery systems;
- Reduces condensation in tanks, since condensation from the vehicles' own tanks does not seep into pump tanks (the system recycles and separates petrol from water);
- Increases flexibility in the management of petrol station, allowing tanks to be more easily switched to dispensing either petrol or diesel;
- Greatly reduces the cost of installation of petrol vapour recovery systems;
- The petrol vapour is recovered as saleable liquid petrol, at a rate of 1 litre of petrol from 1000 litres of vapour recovered;
- The CleanAir® system is fitted directly to the dispenser without the need for substantial forecourt excavation and underground works;
- Enables the retrofitting of existing systems or fast and clean installation of new vapour recovery systems, with no impact on the performance/operation of the petrol station;
- The system is designed for suction pump and/or submersible dispensers;
- The system can also be offered as in pump version in combination with Petrotec dispensers and others (special kits have been created to install in others dispensers);
- The fantastic combination of Petrotec dispenser with in pump CleanAir® vapour recovery systems , proved to be the best solution for new sites and repump programs;
- Can be fitted to almost every type of fuel pump;
- The market acceptance of the system and the accumulated expertise places Petrotec in a position of worldwide technological leadership;
- Customers benefit directly from the CleanAir® system through increased fuel sales, thereby recovering about 0.1% of fuel supplies;
- The systems are certified in UK, France, Norway, and other EU countries;
- The system have been approved ATEX by NEMKO and SIRA;
- CleanAir® innovative system is becoming the reference in the market for new generation of vapour recovery regulations worldwide.

For all those reasons, CleanAir® is the best solution for new petrol stations or for retrofitting existing ones for conformance to Phase II fuel vapour recovery!

