

**FREON GAS PIPE LEAKING TOOL USING VALUE  
FREON GAS LEAK IN PT. KITA JAYA SUKSES**

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**ABSTRACT**

Services provide by PT. Kita Jaya Sukses is a service and maintenance such as washing, procuring, repairing and replacing Air Conditioner parts, and installing Air Conditioners which are often used by companies and communities that use Air Conditioner in their daily activities. In the process of maintenance Air Conditioner for checking the capillary pipe, in this case it is often found difficult to find the location of leaks in the capillary pipe. This is because the leak checking process still uses conventional methods.

To overcome this problem, how to use a tool is applied which makes it easy to detect leaks in the capillary tube. The tool is a gas leak Value Freon whose function is to detect Freon gas coming out from parts in the Air Conditioner, by attaching the tip of the tube to the part that has leaked.

From the test results obtained, the authors can conclude that the Value Freon Gas Leak can function near the initial expectation. Value Freon Gas Leak is able to work well by conducting a trial to detect the freon type HFC-134a which is directly out of the freon tube. It is just that in testing all devices in the Air Conditioner cannot be done because of the limitation of the media that will used.

Keywords: Air Conditioner, Freon gas pipe leak, Value Freon Gas Leak, Capillary pipe, Freon gas