# MRV – M.A.R.V.E.L. DCKV Demand Controlled Kitchen Ventilation (ETL)



# Overview

M.A.R.V.E.L.[1] is the first truly intelligent and responsive Demand Controlled Kitchen Ventilation system (DCKV).

M.A.R.V.E.L. « scans » the cooking equipment's surface to determine the appliances' status: switched off, idle, or in the process of cooking. Each status corresponds to a different exhaust airflow need. The maximum value is used only in cooking mode for a limited time period. This leads to a first drastic reduction of exhaust airflows.

M.A.R.V.E.L. can uniquely adjust the exhaust airflow hood by hood in a fully independent way. If just one cooking range is operating, only the airflow for that hood concerned will be automatically adjusted. The other hoods will continue to operate at a low flow rate. It works the same way with the zones of a ventilated ceiling. This ability further reduces exhaust airflows.

The icing on the cake: **M.A.R.V.E.L.** continually regulates the speed of the fans to obtain the required rate with minimal pressure. Power consumption is thus kept to the bare minimum.

**M.A.R.V.E.L.** currently represents the most efficient Demand Controlled Kitchen Ventilation system with massive financial savings on air conditioning and on the electrical consumption of the fans.

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