

# MRV – M.A.R.V.E.L. Demand control ventilation (ETL)



## Overview

M.A.R.V.E.L.<sup>(1)</sup> is the first truly intelligent and responsive Demand Control Ventilation system (DCV).

M.A.R.V.E.L. « scans » the surface of the cooking equipment to determine, in real-time, the status of the appliances: 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. has the unique ability to adjust the exhaust airflow hood by hood and 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 the 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 Control Ventilation system with massive financial savings on air conditioning and on the electrical consumption of the fans.

