M.A.R.S

Monitored Air Recirculation System

The self contained kitchen ventilation system



VORTEX
by CORSAIR

M.A.R.S *The self contained kitchen ventilation system*

M.A.R.S is the self-contained kitchen ventilation system from Corsair, that does not require extract ductwork ventilating to atmoshpere, Ideal for low to medium output cooking equipment.

The unit comprises an extraction canopy with a dedicated services tower at one end. The tower has an integral fan and additional stages of filtration to clean the air before being introduced back into the kitchen through low level diffusers.



- Needs no ductwork to atmosphere
- Freestanding unit, Plug and Play
- No wall or roof penetrations needed
- Integral services tower with filters & fan
- Controls monitoring package
- Optional tower location, either end or remote
- Optional rear splashback wall cladding
- Range of sizes and extract volumes
- Keeps fire risk contained within kitchen



Principal of operation

Grease laden air from the cooking process passes through stage 1, the Vortex baffle filters, removing the majority of large grease particulates from the airstream.

From here, air flows into the tower and passes through filter stages 2-5 to remove increasingly finer particulates & also odour, before being discharged back into the room at low level.

Stages of Filtration:

Stage 1 Vortex high efficiency baffle filters
Stage 2 G4 – Particulate filter (1st in tower)
Stage 3 F6 – Pocket filter units (2nd in tower)
Stage 4 H10 – HEPA filter units (3rd in tower)
Stage 5 Activated Carbon filters (4th in tower)

Features

- Noise levels minimised by insulated tower
- Integral recessed low energy LED lighting
- Controls with filter monitoring package
- Supplied with 3 metre cable and 3 phase plug
- Easy to maintain - system housed in one unit with full access to removable components



M.A.R.S unit at Arding & Hobbs, London

VORTEX by CORSAIR

CPD CIBSE Approved until 2027

Want to learn more ?

We offer a CIBSE approved seminar on kitchen ventilation design where you can learn about the latest developments and regulations.

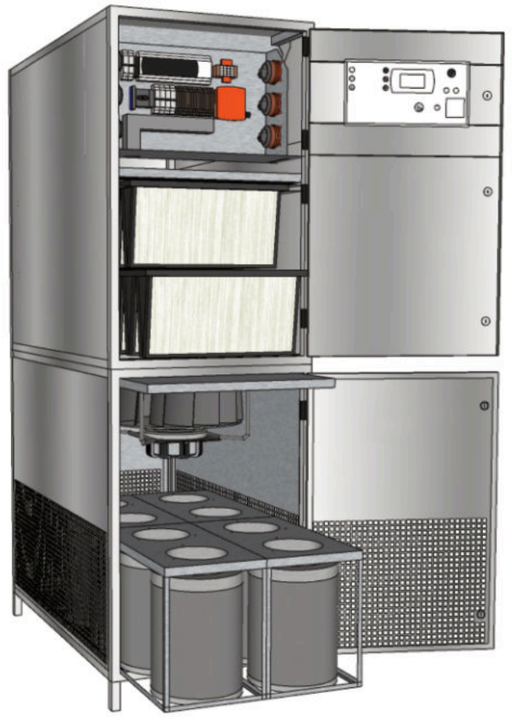
MARS Controls Package

The control panel will be set for optimum performance over the cookline. For ease of operation there are just two settings:

Prep - Power on with low level extraction and lighting

Cook - Preset extraction level to provide the correct air movement for the equipment below

The panel will also indicate filter state, with coloured LED's to visually inform operators of filter performance and when to replace.





M.A.R.S unit at Hawksmoor, London

M.A.R.S

Monitored Air Recirculation System



The services tower can be located remotely from the canopy, connected with a short run of ductwork.

The central V bank grease filter housing improves capture of steam by locating a filter directly above the rear vents of a combi oven (above left)

Optional Features:

- Stainless steel wall cladding behind cookline
- Infill panels up to structure above
- Fire suppression system (wet chemical)
- Spare filter elements available from Corsair

Important Notes:

Due to the requirements of gas regulations, MARS can only be used to ventilate electrically powered cooking equipment.

MARS does not include equipment to reduce the extracted air temperature, therefore consideration should be given to providing cooling within the kitchen area.

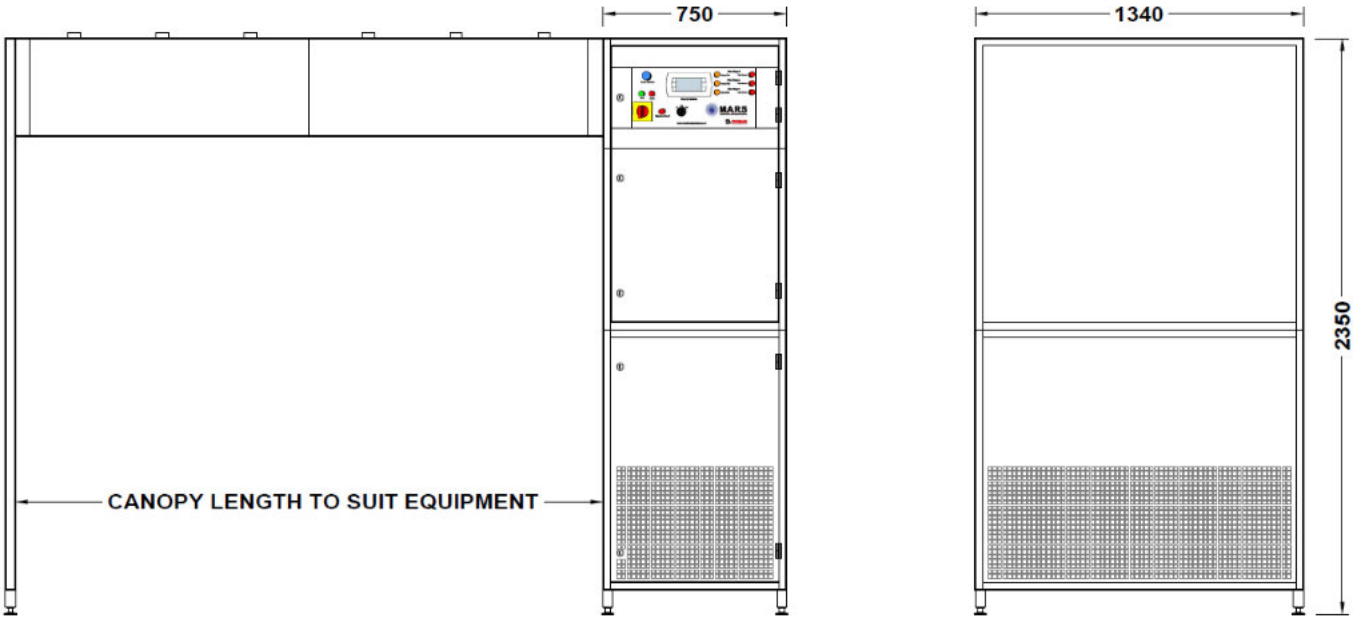
Whilst the unit does not directly require ductwork to atmosphere, it is good practice to provide some background ventilation within the kitchen.
MARS is ideal for use over light to medium output cooking equipment.

Tel 01295 267021
E. sales@corsairengineering.co.uk
W. www.corsairengineering.co.uk

Corsair Engineering Ltd
Beaumont Close
Beaumont Ind Est
Banbury
Oxon
OX16 1SH

M.A.R.S
Monitored Air Recirculation System

VORTEX
by CORSAIR



Technical Information:

Stages of filtration:

Stage 1 Vortex high efficiency baffle filters in canopy
Stage 2 G4 particulate Filter (First stage in tower)
Stage 3 F6 pocket filter units
Stage 4 H10 HEPA filter
Stage 5 Activated carbon filters

Electrical Details:

Fan voltage 3 phase 380-480v
Frequency 50/60Hz
Input power 3.3kW
Current 4.8A
Weight of tower : 320Kgs

Extract Volume: Up to 1.2m3/s

Installations include:

Battersea Power Station - London
Alix Partners - London
Hawksmoor - Kings Cross
Taco Taco - London
Berkhampstead Nursery - Cheltenham
Strand Palace Hotel - London
Teneo - London
Surrey Maths School - Guildford
Fulham Football Club - London
Olympia - London
Arding & Hobbs - London
Justerini & Brooks - St James, London

CPD
CIBSE Approved until 2027

Learn more about our wide range of kitchen ventilation solutions on our website. Or why not arrange on of our free CIBSE approved CPD seminars where you can learn all about the latest developments in our industry.

09/2026

Our policy is one of continuous product development and we reserve the right to change size and specifications at any time and without notice.

CORSAIR

Corsair Engineering Ltd
Beaumont Close
Beaumont Ind Est
Banbury
Oxon
OX16 1SH

Tel 01295 267021
E. sales@corsairengineering.co.uk
W. www.corsairengineering.co.uk