

# KMC – Halton MobiChef™ mobile recirculating station (CE)



## Overview

Halton MobiChef enables creating display cooking hubs right in the middle of traditional restaurants or in shopping malls and food courts, as well as in hotels's banquet or breakfast areas. It can also be used to place mobile catering points at strategical locations within a venue, as for exhibition grounds for instance. It also enables extending the cooking capacity of an existing kitchen or establishing a catering activity on premium locations without worrying about ventilation.

Halton MobiChef is designed for electrical cooking appliances. It is equally suitable for table-top light-duty equipment or modular equipment (up to 5 of 400 mm width).

Halton MobiChef's New Design is more compact while providing a larger view over what your guests are going to savor. Its operation is now fully automatic and its sides are foldable to make its handling easier. Last but not least, with Halton Connect® & Care services, its maintenance has never been so easy and predictive. You keep an eye on your station operation. So do we, in order to manage everything for you.

- HACCP International certified (Hazard Analysis Critical Control Point).
- No need for a connection to the exhaust ductwork.
- **Compatible with all electric and modular cooking appliances of 700 or 800 mm depth.**
- The productivity and ergonomics are comparable to a cooking block covered with a hood.
- The Capture Jet™ technology on the front and sides enables a negative overhang while reducing the exhaust airflow rates required. It makes the unit compact and

quiet in operation considering its treatment capacity.

- An additional set of Capture Jets slows the building up of a greasy film on the front glass and reduces the time required to clean it.
- Its foldable sides and lateral handle make its handling and doors passing easier.
- Totally plug and play with a user friendly integrated LCD touch screen.
- The control system maintains constant the recirculation airflow at the three available speeds, whatever the filter's plugging (and pressure loss).
- Option / With the "airflow On Demand" technology, the unit selects automatically and real time the operation speed which suits the best to the cooking operations on progress.
- KSA cyclonic aerosol separator combined with MFA mesh filters as the first of the 6 filtration stages. Up to 99% efficient on 10 microns and above particles.
- High efficient filtration process removes drastically the grease and smoke particles released by the cooking appliances while greatly reducing the odor emissions.
- Equipped with Halton Connect® IoT (Internet of Things) platform with advanced 24/7 distant monitoring capabilities.
- Access to Halton Connect web portal included in the 1-year warranty period.
- Option / Highest value of ownership thanks to Halton Connect & Care offering for predictive maintenance and smart services.
- Halton Skyline LED culinary light provides the best visual comfort while respecting the food color and texture render.
- Front and sides glass screens made of thermally-toughened safety glass, complying with EN 12150-1:2015. If one of them is accidentally broken, the glass fragments are small and blunt-edged. The injury risk is then considerably reduced.
- Fan module right or left handed. Working surface on top of it made of quartz.

## More about the main embedded technologies



KSA Filters

Halton Skyline

## Videos

Is Halton Mobichef the Cadillac or Ferrari of Ventilation?

Hear what talented chefs, Linnea Vihonen and Teemu Laurell, think about their first experience with Halton's MobiChef recirculation units. They made it possible to cook right in the middle of the lounge area of one of Eckerö Line cruise ships as part of Maalla, merellä ja lautasella (On land, sea, and plate) culinary adventure TV program.

Tommy Mäkinen also explains how the production company came to select this

original solution.

## About Capture Jet™ technology



**The Capture Jet™ technology ensures the grease, smoke and the other pollutants released by the cooking appliances are captured with the lowest possible airflow rate. Also, Capture Jets used to contribute protecting the glass front from cooking emissions.**

This is a key point for recirculation systems in order to optimize its size and efficiency.

- Reduces the unit's maximum airflow rate to the lowest possible level, without compromise on smoke and grease capture.
- Reduces the filters' and fan's size. The unit is more compact, the noise level is lower and the fan's energy consumption is reduced.
- The Capture Jets are also used to reduce the cleaning time of the glass front screen.

# About Airflow On Demand (available early 2022)



Halton MobiChef has a fully automatic mode that lets you focussing on what is going to be cooked for the guests.

Just switch on the unit and once the starting up routine is finished, the unit is ready to operate with the right recirculation airflow, at the right time.

## About Halton Connect & Care



**Halton Connect** is a state-of-the-art IoT (Internet of Things) platform whose core is an advanced cloud-based portal.

It enables 24/7 remote monitoring of the solutions designed by Halton. It allows access to important and useful information along with powerful data analytics to the end users. It also provides crucial information to our engineers. In return, they can remotely and safely control all systems and their settings when required.

This digital “two directions” technology opens the way to Premium Services that are vital to keep the performance of the systems and technologies at the initial design level and during the entire lifecycle. Even better! They enable continuous optimisation of your systems, resulting in even lower operating costs.

[Halton Connect for commercial kitchen ventilation](#)

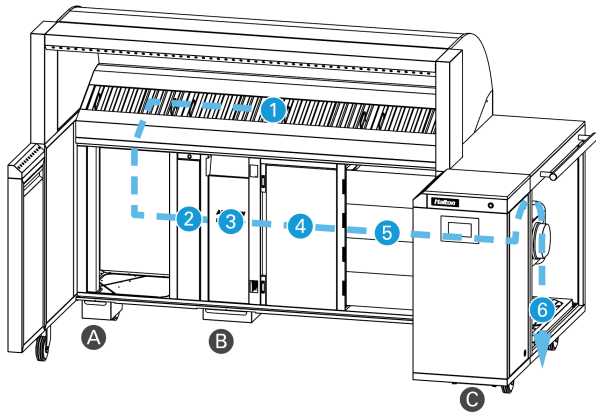
## About Halton Mini Touch Screen



Halton Mini Touch Screen makes it simple. In **automatic mode**, the operation speed is selected depending on the cooking activity. The active speed is clearly displayed.

A **manual mode** is still available. Then, the recommended speed is also clearly displayed to invite the user changing the speed or coming back to the automatic mode.

# Operation



**Halton's MobiChef integrates a highly efficient recycling unit based on a process composed of not less than 6 steps.**

It has been designed to drastically remove the grease and smoke particles released by the cooking appliances while greatly reducing the odor emissions.

The air can then be freely discharged back into the dining area where the cooking station is installed. As a matter of fact, Halton's MobiChef does not require any

connection to a ventilation duct.

**1** – Mechanical double stage pre-filtration comprising Halton's KSA cyclonic aerosol separators and MFA mesh filters. This combination removes very efficiently large and medium sized particles. Both are cleanable in a dishwashing machine.

**2** – Additional disposable pre-filter rated M5 (per EN779).

**3** – The three pre-filtration steps allow the ESP (Electrostatic Precipitator) to work at maximum efficiency. ESPs induce an electrostatic charge on the particles which pass through it, in order to then collect them on plates which generate a magnetic field. Halton MobiChef's ESP is very efficient on fine particles, including grease particles and vapor; and it is cleanable.

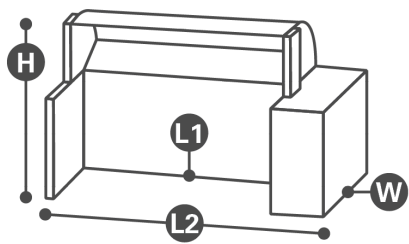
**4** – MERV 16 (per Ashrae 52.2) absolute filter, rated 95% DOP for 0.3 microns aerosols. It is used to remove ultra fine particles, mainly contained in smoke.





**5** – Part of the odors are carried by the grease particles and vapors, as well as by the smoke. They are drastically removed by the previous filtration steps. The remaining odors, and especially VOCs, are greatly removed by a combination of activated carbon and chemical pellets. The first removes gases by adsorption. The second removes them by adsorption, absorption and chemical reaction (which mitigates the risk of desorption).

**6** – A terminal synthetic filter impregnated with carbon finalizes the treatment in order to reduce the odors emissions at its lowest possible level.

**A** – Grease tray for the mechanical pre-filtration. **B** – Grease tray for the ESP. **C** – Filter for the integrated Capture Jet™ fan.

# Quick selection data



	L1	L2	W	H				
S70	1255	1715	1130	1397	560	675	810	1650 W
S80	1255	1715	1230	1397	650	780	940	1650 W
M70	1655	2115	1130	1397	740	890	1070	1650 W
M80	1655	2115	1230	1397	860	1030	1240	1650 W
L70	2055	2515	1130	1397	920	1110	1330	1650 W
L80	2055	2515	1230	1397	1070	1280	1540	1650 W

Q<sub>R</sub> [m³/h] (1)

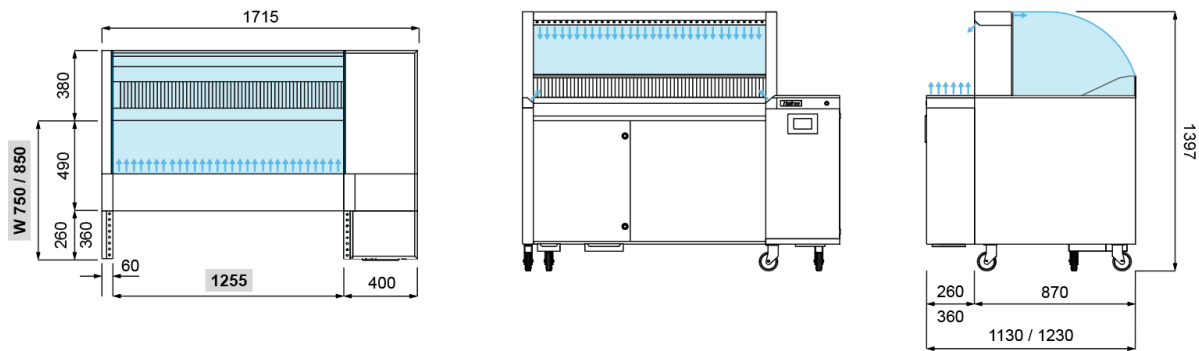
230V/50Hz

(1) Indicative recirculation airflows which can be adjusted depending on the cooking appliances technical specifications

# Dimensions

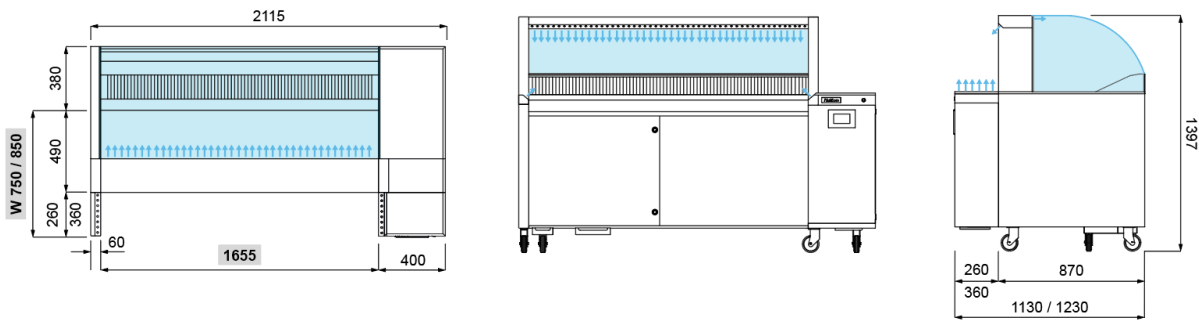
KMC

Halton MobiChef S70 (W750) S80 (W850) 277 kg



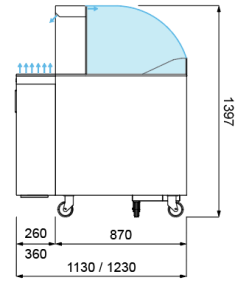
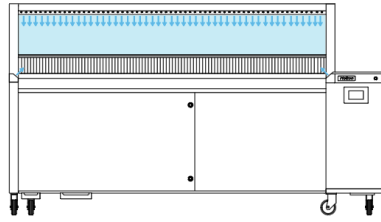
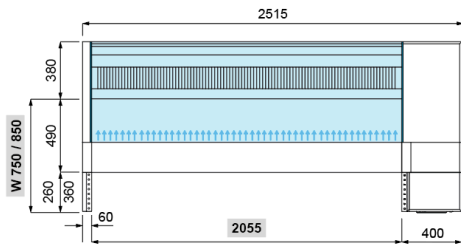
KMC

Halton MobiChef M70 (W750) M80 (W850) 297 kg



KMC

Halton MobiChef L70 (W750) L80 (W850) 317 kg



## Foldable sides

