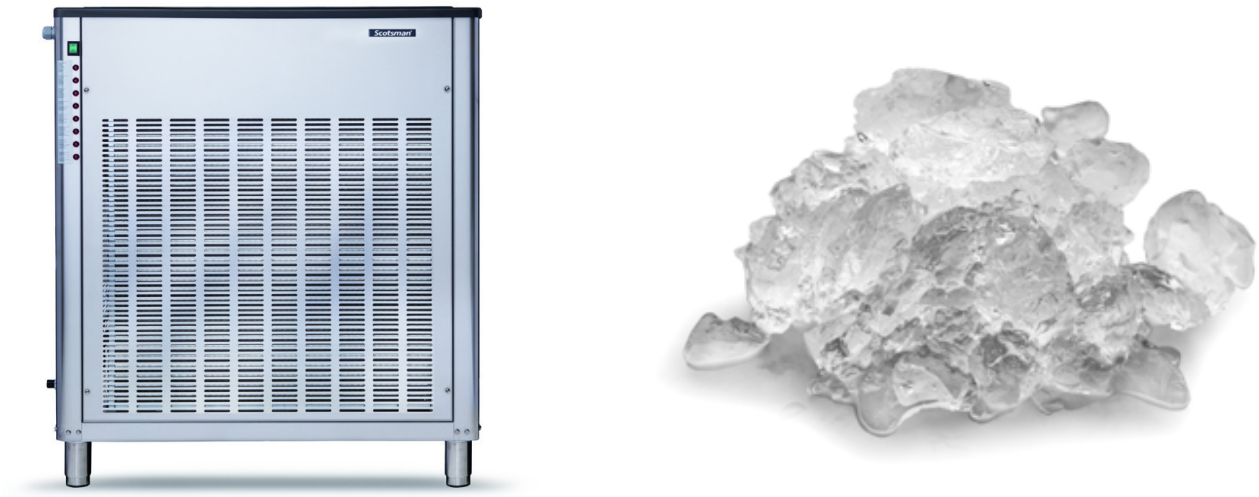
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# Modular flake ice machine SCOTSMAN MF 86

Scotsman Ice Systems · up to 2400 kg of ice per day · superflake ice with 15 % residual moisture



The MF 86 and superflake ice — photos by the manufacturer Scotsman Ice Systems

## Application

A modular ice machine for the industrial production of flake ice. Ice of this type gives up its cold quickly and does not damage the product, so it is used wherever the temperature of the raw material has to be brought down or held during processing: in meat processing for cutters and minces, in the dough room in place of part of the water, for cooling fish, vegetables and semi-finished products, and for display.

The machine is modular: it does not store the ice itself but delivers it into a bin or onto a conveyor. An ice level thermostat stops the machine when the bin is full and starts it again as the ice is used.

## Design features

— semi-hermetic compressor;
— auger and freezing cylinder (evaporator) of stainless steel;
— electromechanical control panel;
— ice breaker of a specially strengthened alloy: the higher extrusion pressure gives drier ice — 85 % dryness;
— long-life stainless steel ball bearings; current protection of the geared motor and a safety coupling between the gearbox and the auger;
— low water pressure switch; an ice level thermostat stops the machine when the bin is full;
— stainless steel side panels, scotch-brite finish, rounded corners; they come off on all four sides for servicing;
— polystyrene top cover; ice discharge chute with an extension.

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## Technical data

| Parameter | Value |
|---|---|
| Model | MF 86 |
| Type of ice | superflake, residual water content 15 % |
| Output | up to 2400 kg per day — see the table of versions below |
| Refrigerant | R404A |
| Voltage | 230/50/3 · 230/60/3 · 380/60/3N · 400/50/3N |
| Dimensions (W × D × H) | 1080 × 780 × 1255 mm |
| Net weight | 390 kg |
| Shipping package | 1170 × 920 × 1340 mm, 411 kg |

## Versions and output

The three output figures are the production per day for three temperature conditions: 10 °C air / 10 °C water, 21 °C / 10 °C and 32 °C / 21 °C. The manufacturer gives the energy and water consumption for the 32 °C / 21 °C conditions.

| Version | Supply, output, consumption |
|---|---|
| MF 86 AS · air cooled, 50 Hz | 230/50/3 or 400/50/3N · 2400 / 2400 / 1850 kg per day · 7.4 kWh per 100 kg · 138.5 kWh per day · water 77.1 l/h · instantaneous power 6100 W |
| MF 86 AS · air cooled, 60 Hz | 230/60/3 or 380/60/3N · 2400 / 2400 / 1850 kg per day · 8.1 kWh per 100 kg · 149.6 kWh per day · water 77.1 l/h · 6280 W |
| MF 86 ASR · remote condenser | 380/60/3N · 2400 / 2400 / 1850 kg per day · 8.1 kWh per 100 kg · 149.6 kWh per day · water 77.1 l/h · 6280 W |
| MF 86 WS · water cooled | 400/50/3N · 2400 / 2400 / 1850 kg per day · 7.4 kWh per 100 kg · 138.5 kWh per day · water 416.7 l/h · 5800 W |

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## Operating conditions

| Parameter | Range |
|---|---|
| Air temperature | from 10 to 43 °C |
| Water temperature | from 5 to 38 °C |
| Water pressure | from 1 to 5 bar |
| Supply voltage tolerance | ±10 % |

## Electrical data

| Version and voltage | Compressor, cable, fuse |
|---|---|
| MF 86 AS · 230/50/3 | compressor 34,121 Btu/h (10,000 W) · 4 cores Ø 4.0 mm² · maximum fuse 32 A |
| MF 86 AS · 230/60/3 | 22,964 Btu/h (6730 W) · 4 cores Ø 6.0 mm² · 32 A |
| MF 86 AS · 380/60/3N | 22,964 Btu/h (6730 W) · 5 cores Ø 4.0 mm² · 25 A |
| MF 86 AS · 400/50/3N | 34,121 Btu/h (10,000 W) · 5 cores Ø 4.0 mm² · 25 A |
| MF 86 ASR · 380/60/3N | 22,964 Btu/h (6730 W) · 5 cores Ø 6.0 mm² · 32 A |
| MF 86 WS · 400/50/3N | 34,121 Btu/h (10,000 W) · 5 cores Ø 4.0 mm² · 32 A |

## Recommended bins

| Bin | Capacity |
|---|---|
| UBH2250 | capacity 1068 kg |
| SIS1350 | capacity 613 + 73 + 73 kg |

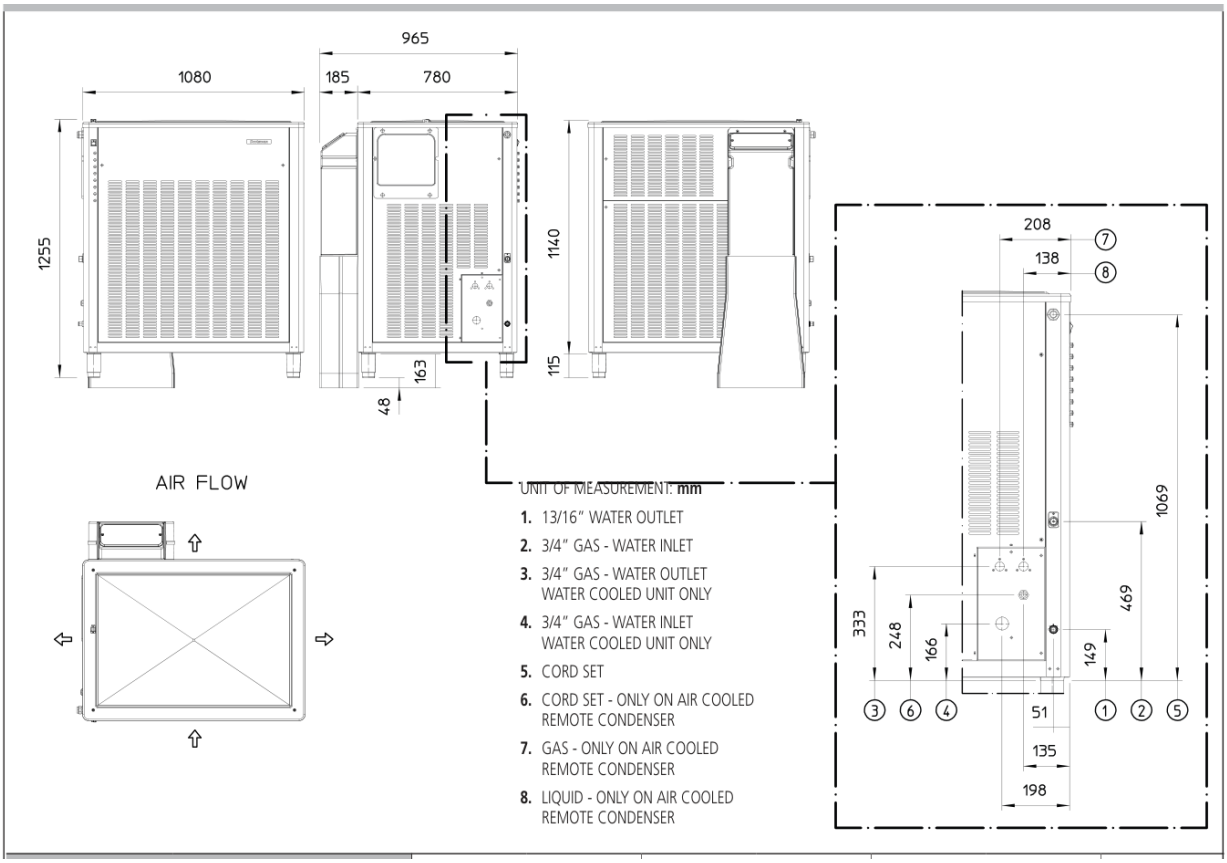
The opening for the ice discharge chute is cut in the bin during installation.

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## Dimensions and connections

The machine measures 1080 × 780 × 1255 mm. The dimensions on the drawing are in millimetres; the figures mark the connection points:

1 — water outlet 13/16";
2 — water inlet 3/4";
3 — water outlet 3/4" — water cooled only;
4 — water inlet 3/4" — water cooled only;
5 — power cable;
6 — power cable — air cooled with a remote condenser only;
7 — gas — air cooled with a remote condenser only;
8 — liquid — air cooled with a remote condenser only.




Dimensional drawing and connection points of the MF 86 — drawing by the manufacturer Scotsman Ice Systems

## Supply and service

Delivery and packing, installation and commissioning, staff training, warranty and post-warranty service, spare parts. The cooling version, the voltage and the bin are selected for the conditions on site.

The data are indicative; the manufacturer reserves the right to change them without notice.