

Flake ice machines for direct
carbon dioxide operation CO₂ (R744)
RVH CO₂-D



The advantages of the MAJA RVH CO₂:

- **Eco-friendly ice production** by the use of natural refrigerant R744 (carbon dioxide / CO₂) .
- Compared to other usual refrigerants, the direct carbon dioxide operation brings **more power density**, thus increase of ice capacity up to 30 % compared with the same machine scale.
- **Excellent sanitary conditions** thanks to the HY-GEN sanitation principle by MAJA with removable hygiene evaporator tank and evaporator self-cleaning system MAJA-SCS (option).
- **Reduced ice production costs, reduced TCO.**

RVH CO2-D

Technical details

Type	Ice output*) kg/24h	Water consumption m ³ /24h	Refrigeration capacity required	Electrical connection kW 3AC/50Hz/400V/PE	Width mm	Depth mm	Height mm	Weight kg
RVH 400 CO2-D	ca. 500	ca. 0,5	t ₀ -25,0°C, 2,8 kW	0,28	1185	512	525	85
RVH 800 CO2-D	ca. 1000	ca. 1,00	t ₀ -25,0°C, 5,5 kW	0,28	1345	512	525	125
RVH 1000 CO2-D	ca. 1300	ca. 1,30	t ₀ -25,0°C, 7,3 kW	0,28	1545	512	525	145
RVH 1500 CO2-D	ca. 1900	ca. 1,90	t ₀ -25,0°C, 10,7 kW	0,28	1695	512	525	160
RVH 2000 CO2-D	ca. 2500	ca. 2,50	t ₀ -25,0°C, 14,4 kW	0,28	1695	512	525	160
RVH 2500 CO2-D	ca. 3000	ca. 3,00	t ₀ -25,0°C, 16,2 kW	0,28	1695	512	525	160
RVH 3000 CO2-D	ca. 3800	ca. 3,80	t ₀ -25,0°C, 20,5 kW	0,34	1735	675	525	220

Water supply temperature: +16°C
Ambient temperature: +20°C
*) Higher temperatures may lead to reduced ice output.
Water supply: 3/4" external thread
Drain water: 1" hose clip
Max. pressure: liquid side 42 bar, suction side 28 bar.

Equipment & features:

The HY-GEN Flake Ice Machines type RVH CO2-D are suitable for the production of flake ice under excellent sanitary conditions. They are designed for direct carbon dioxide operation with a R744 multicompressor refrigeration unit and can be integrated into refrigeration projects targeting sustainability and environmental safety.

The MAJA Flake Ice Machines type RVH CO2-D allow quick and easy cleaning, either by hand or by the self-cleaning system MAJA-SCS (option). The core piece of the HY-GEN sanitation principle is the evaporator tank in plastic material, which can easily be removed for cleaning.



Operation by Control Panel Touch
(standard control unit)

TECHNOLOGY FOR THE FUTURE

Optimum energy efficiency - increased power density:

- Compared to other usual refrigerants (e. g. R404A), the direct carbon dioxide operation brings more power density, thus increase of ice capacity up to 30 % compared with the same machine scale.
- Electronic expansion valve for optimum evaporation efficiency.

Eco-friendly flake ice production:

- Excellent ecological impact by the use of the natural refrigerant R744 (carbon dioxide / CO₂) for flake ice production.
- R744 consists of the elements carbon and oxygen, gases which are natural parts of the earth atmosphere.
- Almost no influence on the destruction of the ozone layer and the greenhouse effect:
Ozone depletion potential ODP = 0, global warming potential GWP = 1

High safety standard:

- Refrigerant pump-down when the machine stops.

Easy operation by Control Panel Touch:

- Timer function for free programmable production and cleaning cycles:
For having the right quantity of fresh MAJA flake ice at your disposal exactly in time.

Conditions for installation of MAJA RVH CO2-D for operation with R744:

- Subcritical CO₂ circuit.
- Evaporation pressure regulator to adapt the evaporation temperature of the RVH to t₀ = approx. -25°C.
- Stop valve liquid line and suction line.
- Pressure relief valve with interchangeable valve for maintenance.
- If necessary, CO₂ gas detector (depending on the local situation at the installation place)

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Alterations reserved.

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