

Flake ice machine for direct
ammonia operation NH₃ (R717)
RVH NH3-D



The advantages of the MAJA RVH NH3:

- Eco-friendly ice production by the use of natural refrigerant R717 (ammonia / NH₃).
- Compared to other refrigerants, the direct ammonia operation brings more power density, thus increased ice capacity 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.

Type	Ice capacity*) kg/24h	Water consumption m ³ /24h	Refrigeration capacity required	Electrical connection kW 3AC/50Hz/400V/PE	Width mm	Depth mm	Height mm	Weight approx. kg
RVH 6000 NH3-D	7000	7,0	t ₀ -30,0°C, 42 kW	0,96	1860	1450	586	330
RVH 12000 NH3-D	14000	14,0	t ₀ -30,0°C, 84 kW	1,92	1863	1456	1572	720

FLAKE ICE



RVH 12000 NH3-D



Operation by Control Panel Touch
(standard control unit)

Equipment & features:

The HY-GEN Flake Ice Machines type RVH NH3-D are suitable for the production of flake ice under excellent sanitary conditions. They are designed for direct ammonia operation with an ammonia multicompressor refrigeration unit and can be integrated into refrigeration projects targeting sustainability and environmental safety.

The MAJA Flake Ice Machines type RVH NH3-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.

TECHNOLOGY FOR THE FUTURE

Optimum energy efficiency - increased power density:

- Compared to other usual refrigerants (e.g. R404A), the direct ammonia operation brings more power density, thus increased ice capacity with the same machine scale.
- Electronic evaporation pressure regulation for optimum evaporation efficiency.

Eco-friendly flake ice production:

- Excellent ecological impact by the use of the natural refrigerant R717.
- R717 consists of the elements nitrogen and hydrogen, gases which are natural parts of the earth atmosphere.
- Almost no influence on the destruction of the ozone layer and the greenhouse effect, which is the case for the current HFC-containing refrigerants: Ozone depletion potential ODP = 0, global warming potential GWP = 0

High safety standard:

- Integrated safety system with gas detector and automatic cutoff and blockage in case of leakage.

Easy operation by Control Panel Touch:

- Individual placing of the control unit with touch display.
- 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 the MAJA RVH NH3-D:

- Existing R717 multicompressor refrigeration unit working in pump operation, that means the refrigerant becomes liquid and circulates.
- Ammonia temperature approx. -30°C
- Pump pressure 2 – 4 bar

RVH NH3-D 5 / 2013 EN
Alterations reserved.

