

ITV | ICE makers



ITV ICE PRODUCTION SYSTEMS

COOLING SYSTEM 3 MAIN ELEMENTS

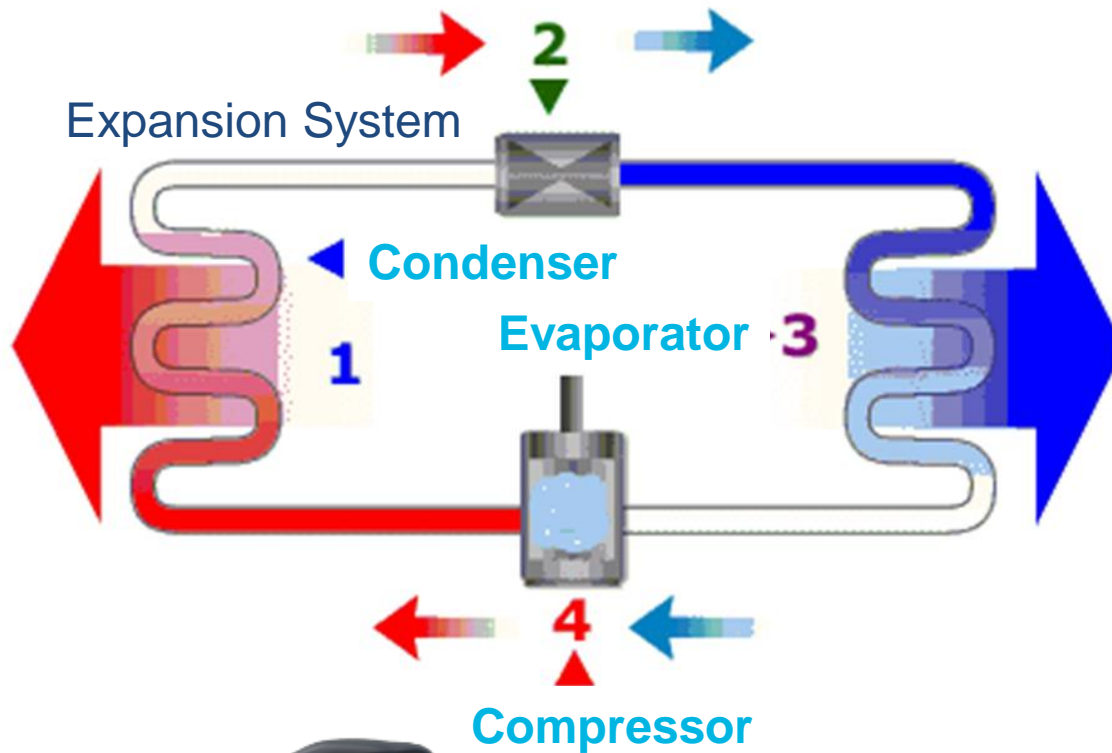
Water Condenser



Air Condenser



The cooling system cools the water down until it turns into ice



ICE MACHINES

Evaporator + Compressor + Condenser built in the machine →

AIR / WATER

With / Without built in bin → Undercounter / Modular Machines (M /MS)



SPRAY SYSTEM



GOURMET-ICE CUBES

SPRAY SYSTEM



SPRAY SYSTEM
SISTEMA DE DUCHAS

**Mini
Alfa**



14/17 cc

Alfa



17/21 cc

Gala



23/30 cc

Delta



36/40 cc

**Super
Star**



48/52 cc

**Super
Star +**



65/68 cc

PRODUCTION KG/LB

From 20/35 to 400/883

SPRAY SYSTEM

The water is constantly moving

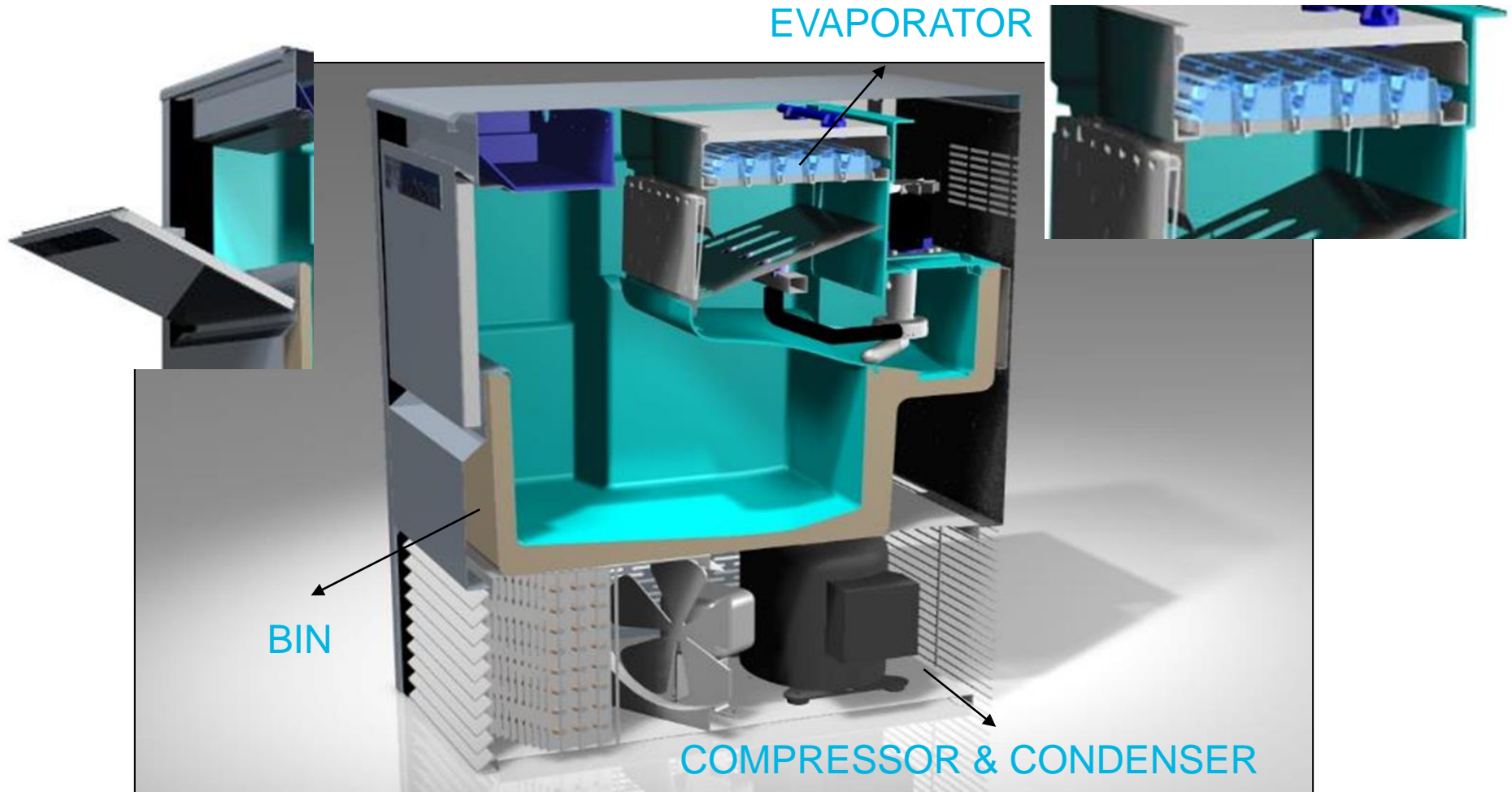
The water is **sprayed into** the shaped holes of a metal tray facing downwards

The metal tray is part of the **evaporator** → when it has been cooled down → part of the sprayed water is frozen & the rest falls back into the pump → the water is sprayed again

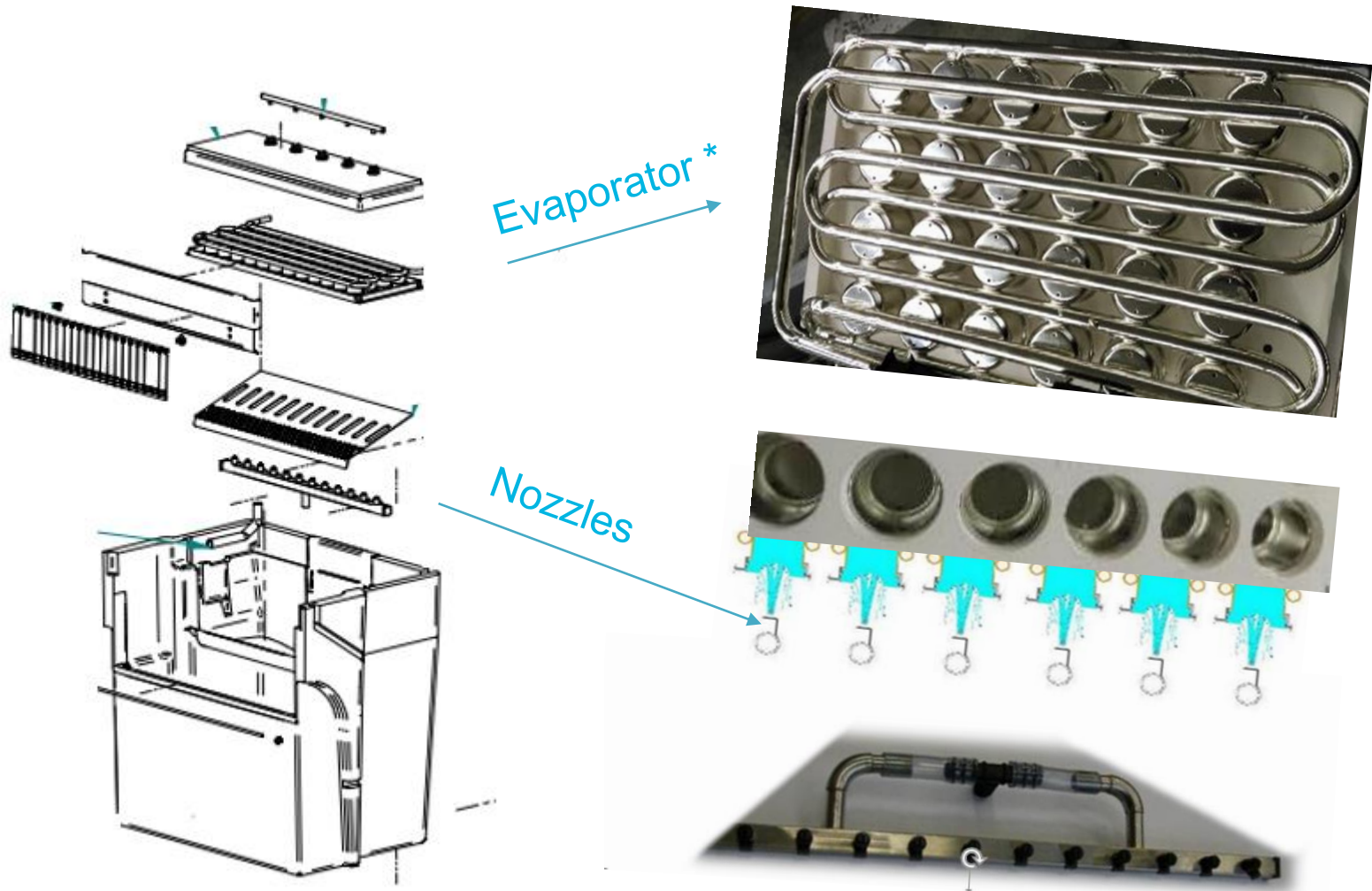
The ice is gradually formed in thin layers → It leaves an open space → No gases are trapped → **Crystal clear ice cubes**

When the tray is not cooled down → The ice cubes fall into the storage bin

SPRAY SYSTEM



SPRAY SYSTEM



* The shape of the metal tray changes depending on the type of ice cube to be made

VERTICAL EVAPORATOR SYSTEM



FULL / HALF DICE

VERTICAL EVAPORATOR SYSTEM

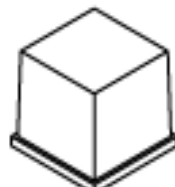


VERTICAL SYSTEM
SISTEMA VERTICAL

Spika HD/FD



6,5 cc



13 cc

PRODUCTION KG/LB

From 60/115 to 400/880

VERTICAL EVAPORATOR SYSTEM

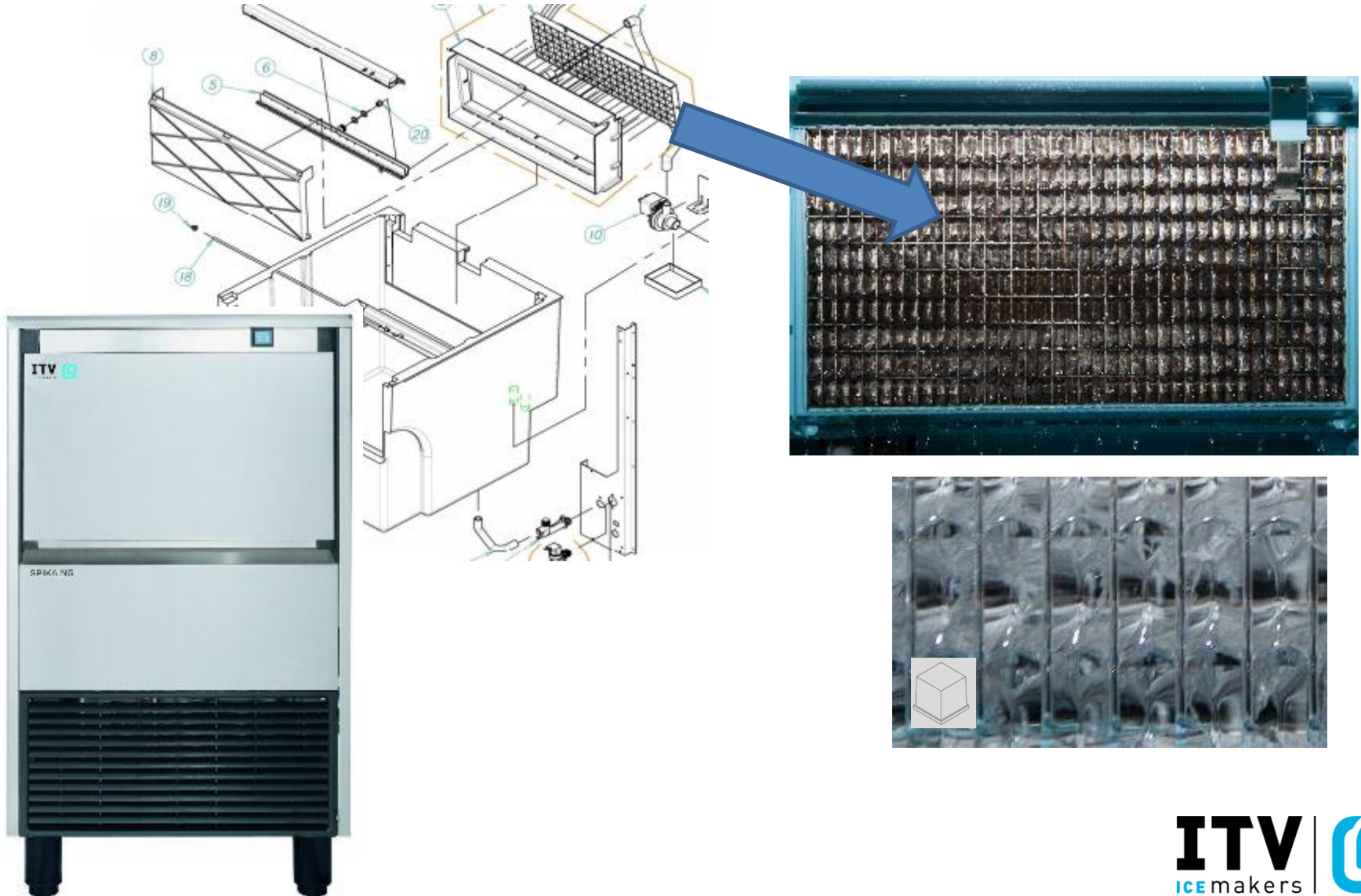
The water is constantly moving

The water falls into the shaped holes of a **vertical** metal tray

The metal tray is part of the **evaporator** → when it has been cooled down → some of the water is frozen & the rest falls back into the pump → the water falls again

If the tray is not cooled down → The ice cubes fall into the storage bin

VERTICAL EVAPORATOR SYSTEM



PADDLE SYSTEM

BULLET ICE CUBES

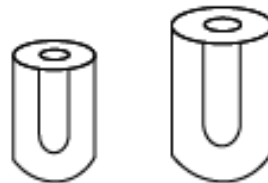


PADDLE SYSTEM



PADDLE SYSTEM
SISTEMA DE PALETAS

Quasar



20 cc

25 cc

PRODUCTION KG/LB

From 20/35 to 190/420

PADDLE SYSTEM

Water enters a water tank from the inlet pipe → a floating device detects the correct water level → inlet stops → activating paddling

The water moves constantly with paddles around an evaporator → Only the purest water touches the evaporator and is frozen into crystal clear ice cubes

When the ice cubes formed touch the paddles, the system stops **electromechanically**

If the evaporator has not cooled down → The ice cubes fall into the storage bin

PADDLE SYSTEM



AXIAL SYSTEM



GRANULAR & DIAMOND ICE

AXIAL SYSTEM

Ice Queen



DIAMOND ICE
(Humidity 20%)



GRANULAR ICE
(Humidity 25%)



NUGGET ICE
(Humidity 15%)

PRODUCTION KG/LB

from 50/85 to 1100/2425

AXIAL SYSTEM

The water * is introduced into a **cylindrical evaporator** → water is frozen in contact with its surface.

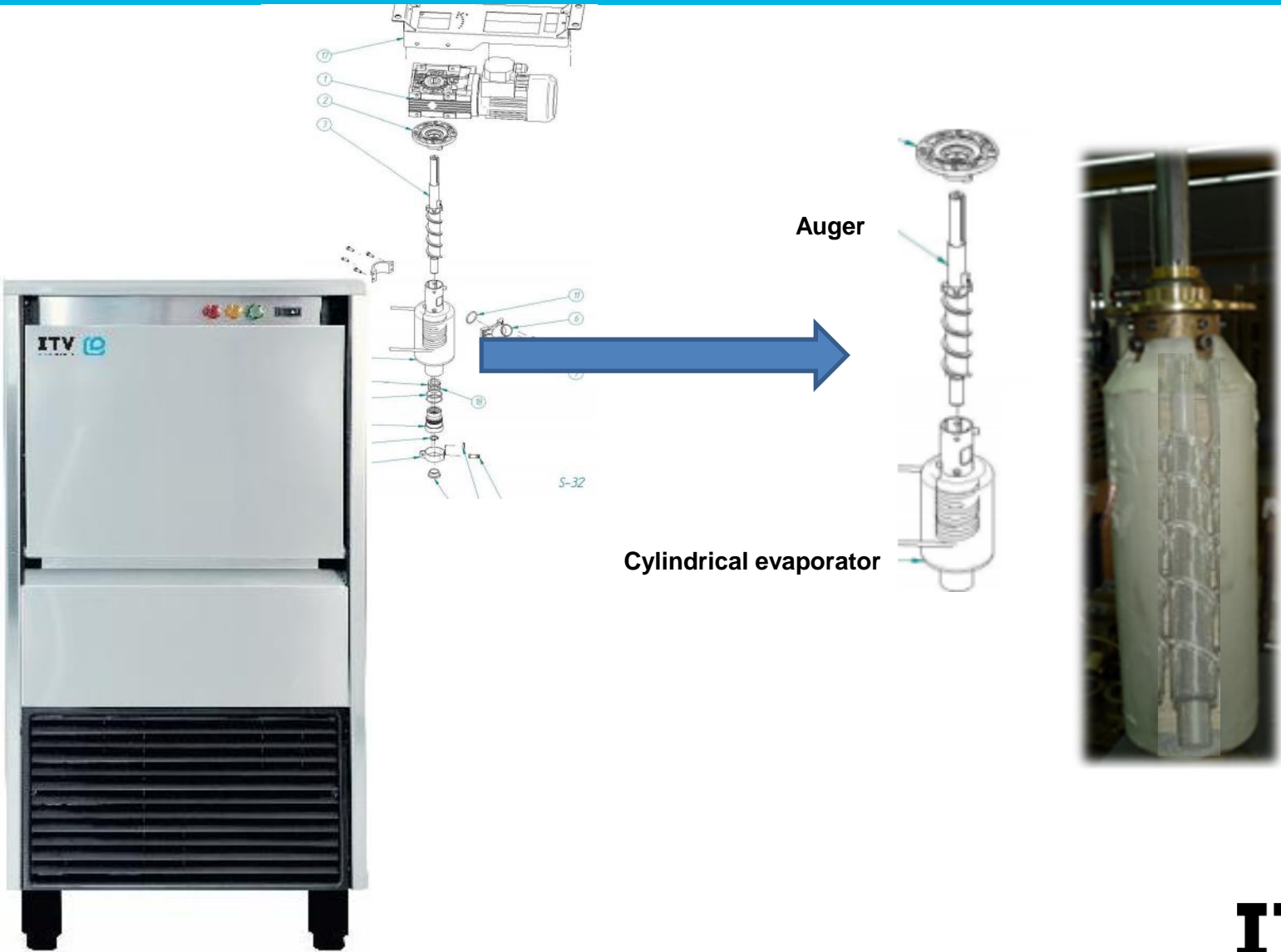
An auger rotates inside and continuously scratches ice flakes (Diamond/granular Ice)

The ice is carried up to an outlet and fall into the bin

When the bin is full, the micro will automatically stop the machine

* In hard water areas (over 14dh) a limescale protection filter is recommended

AXIAL SYSTEM



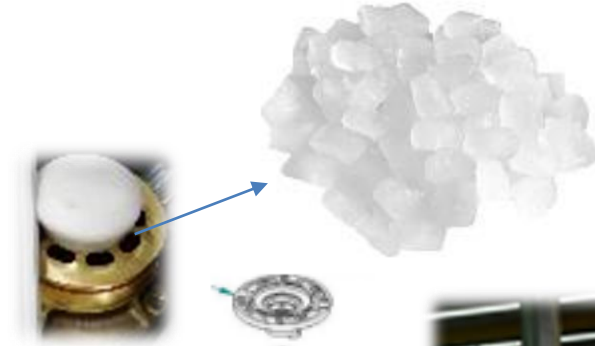
AXIAL SYSTEM



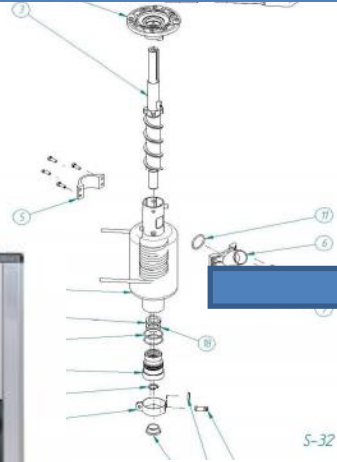
Granular ice coming towards the bins

AXIAL SYSTEM NUGGET ICE

Granular ice is pressed,
water is removed =
nugget ice form



Auger



S-32

Cylindrical evaporator



ROTATION SYSTEM - INDUSTRY

Reamer rotating and touching the walls of the cylindrical Evaporator provoking the fall of the ice flakes: Detail 1



ROTATION SYSTEM

Scala



FLAKE ICE

PRODUCTION KG/LB

From 400/750 to 50T/110K

ROTATION SYSTEM - INDUSTRY



The production is based on a static cylinder without a swivel joint (helical reamer) coupled with a milling tool that detaches the ice without strained or forced movements

From 400 kg to 15 tons

FLAKE ICE

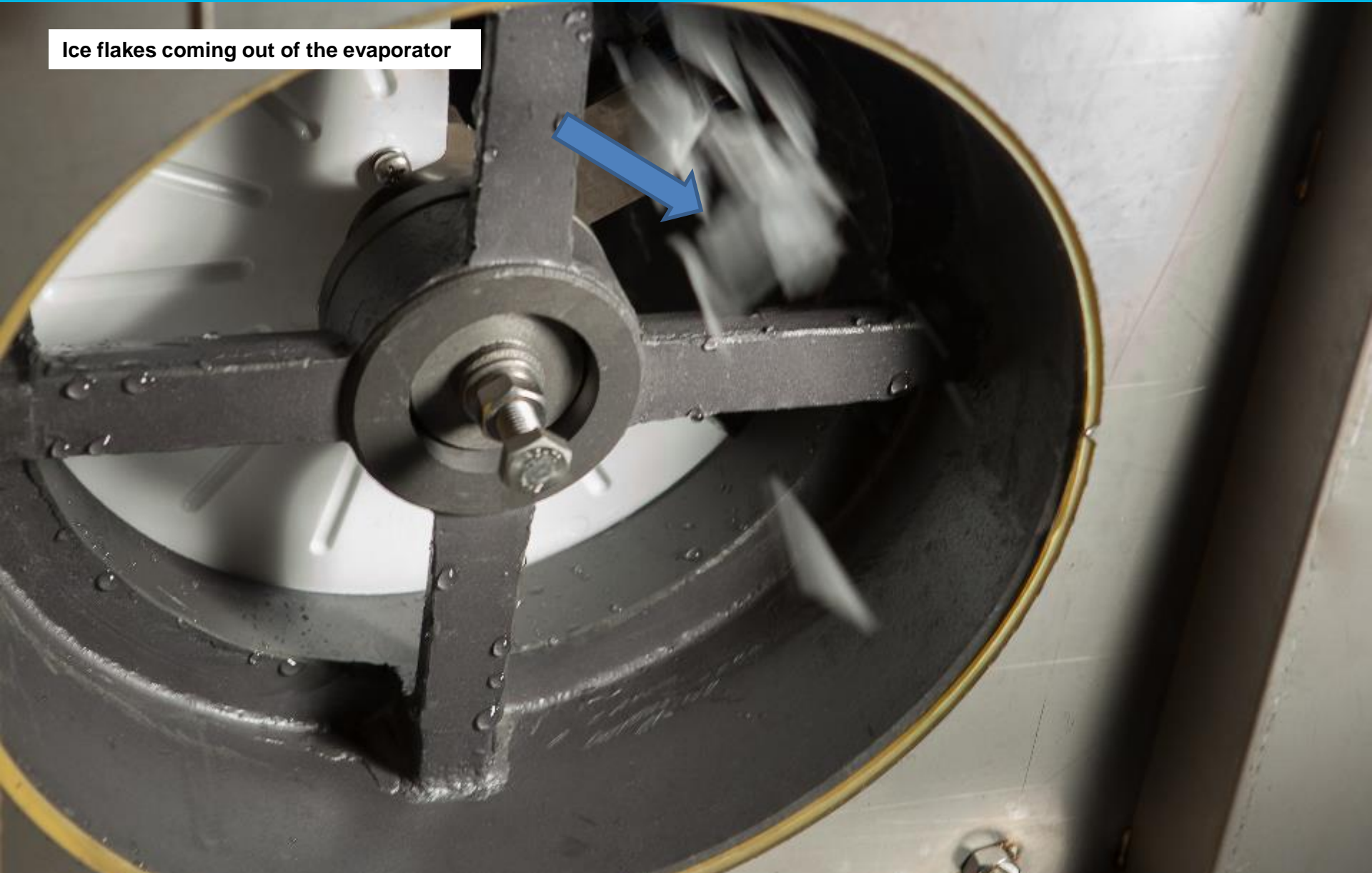
ROTATION SYSTEM - INDUSTRY

Reamer rotating and touching the walls of the cylindrical Evaporator provoking the fall of the ice flakes: Detail 2



ROTATION SYSTEM - INDUSTRY

Ice flakes coming out of the evaporator



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