



All Weather all Year Snow System

CONTACT : M. BARRIER Philippe  
Phone : 00 33 (0)4 72 85 09 68 – pbarrier@wyss.fr

---

## BUSINESS HISTORY – INTRODUCTION

The WYSS joint-venture was created end 2005 and stems from the meeting of alpine entrepreneurs, specialists in refrigeration and air conditioning, at the crossroads of innovative technologies (20 years of experience in this field).

WYSS develops and manufactures innovative snow making systems, suitable for indoor or indoor applications, which run at all levels of ambient temperatures (notably in positive temperatures).

An important part of WYSS' turnover is invested in research and innovation, particularly in the field of « easy use of the machines » and energy savings.

---

## PRODUCT + DESCRIPTION



Outdoor applications

The **WYSS** all weather snow machines are fitted with their own dedicated refrigerating plant. This one, associated with a specifically designed ice generator, puts out dry and sub-cooled ice crystals

The conveying and blowing system Wyss **WSI**, generates an air flow with controlled pressure and temperature, oxygenizes the ice crystals and turns them into snow, which is blown to the piste through a pipe with an end nozzle.

**This process, reliable and regular, makes a good quality snow, where it is required and whatever the weather** (which is not the case with the "traditional" snow guns requiring a very cold and dry ambient air to work properly).

Indoor applications



Credit line Alpincenter

WYSS offers a wide range of modular snow machines, environmentally friendly and energy highly efficient, fitted with the most recent version of electronic control and monitoring systems.

---

## COMPETITIVE ADVANTAGES

**Revolutionary for ski resorts operators**, allowing them to :

- > **schedule** snow production
- > **guarantee** their snow activities programmes

**Optimisation of the snow production** in quantity and in quality (humidity level, temperature, thickness of crystal)

**Reliability and security** with the remote control and monitoring system

**Environmentally friendly** (Water without additives – Water consumption spread over time : no disruption to the ecological system - Low pressure water system (2 to 4 bars) : no need to install costly and heavy hydraulic station )

**Energy optimisation** : The advanced technical design of the machines, through the use of the most recent refrigerating components, combined with the electronic control system **spec** and the energy optimiser system **varix**, makes it possible to control electrical consumption, acting in real time on the functional parameters of the machines, according to the weather conditions. In winter conditions, consumption of 25 to 35 kWh/ m<sup>3</sup> of snow produced. (For a density of 0,5 ton/m<sup>3</sup>).

---

## **POSITIONING**

WYSS does not supply only equipments, but extends its offer to the assistance for the design and development of indoor/outdoor leisure centres based on the all weather snow production concept.