



## The SnowVolution Product

The SnowVolution design and engineering concepts are patented in all major World markets and 'SnowVolution' is registered as a Trade Mark and as a Domain Name. The SnowVolution Intellectual Property and Product available for licensing comprises of six principal interdependent components:

- The SnowVolution Machine Specification
- Architectural Schema
- Lighting, Visual and Multi-Media Specification
- Snow Management and Retention Systems
- Above Snow Environmental Management
- Operations Management

The SnowVolution design and engineering concept will remain under the control of SnowVolution Limited in respect of any franchise or licensing arrangements entered into with developers or operators.

### The SnowVolution Machine Specification

This product component of the licence specifies these elements of the SnowVolution Machine:

- Overall schema and machine layout including the disposition of the moving and static rings
- Deck structural design
- Machine support structure and inner and outer static rings
- Ring suspension and control system
- Ring drive and control system
- Drive and suspension heat management systems

### Architectural Schema

The licence architectural schema specifies these elements:

- Overall appearance of the SnowVolution building envelope
- Design schema for the toroidal roof
- Internal structural schema within the skiing area including the incorporation of the SnowVolution machine, the inner and outer static rings and the run-off apron
- Schema for skier access to the inner and outer static rings and the enclosed area
- Schema for the inner core and intersection with the toroidal roof structure

### Lighting, Visual and Multi-Media Specification

The principal elements of the lighting and visual licence program include:

- Schema for the above snow background lighting and floods for the snow surfaces, walls and toroidal roof
  - Specification of the all-surface surround image and sound projection system (snow surface and toroidal roof)
- Specification of the lighting, projection and sound control system, programming and synchronising with the deck control systems





## **Snow Management and Retention Systems**

This licence component specifies these elements of the SnowVolution product:

- Required snow and surface conditions for skiing
- Snow generation and placement systems
- Heat loads and underdeck environmental parameters required for on-going snow maintenance
- Underdeck environmental management and cooling systems, plant and equipment specifications

## **Above Snow Environmental Management**

This licence component specifies these elements of the SnowVolution product:

- Required above snow environmental conditions
  - for maintenance of surface snow conditions
  - for skier comfort
- Transient heat loads entering and leaving the above deck space
- Above deck ambient management and cooling systems, plant and equipment specifications

## **SnowVolution Operational Management & Procedures**

The operating procedures and practices are set out in this licence component under these headings:

Start-up:

- Pre-start checks and procedures
- Health & Safety checks
- Selection of Ring running configurations and options
- Surface feature options selection and mounting
- Ring start-up procedure

Running Procedures:

- Skier access control and management
- Control parameters for steady state running conditions and variations
- Snow maintenance and underdeck cooling systems settings and control
- Above snow environment settings and control
- Lighting, projection and sound system control

Shutting Down Procedures:

- Control settings and procedure for ring normal deceleration and shutdown
- Emergency Ring shutdown and evacuation procedures

Surface Features:

- Siting and construction of jumps
- Mogul fields
- Slalom courses





**Snow Maintenance:**

- Ring crawl settings for automatic grooming and mobile grooming
- Snow replenishment procedures
- Settings for underdeck cooling systems and overdeck environmental settings during snow replenishment and grooming

**Systems & Engineering Maintenance:**

- On-line drive and suspension monitoring and preventative maintenance procedures
- Replacement of drive and suspension units
- On-line monitoring and maintenance of snow management and environmental systems and controls

