

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