



Product Catalogue



www.msk-snow.com



Metzger MSK Welcome

In the year 2007 Bertin Metzger founded the company Metzger MSK. This until today family led enterprise from the Black Forest plans, develops and produces Chillers, Snowmachines and Icema-chines for the Wellness and Spa sector, medical applications and use of various branches of industry, wintersport and leisure time.

In the company headquarters of Hofstetten / Germany Bertin Metzger and his team drives forward developments and innovations with the target to deliver a conclusive concept to the customer including perfectly matched technology from one source.

To our product highlights belongs the Snowshower, the Snowroom, the Icefountain, the Ice Wall, the Poolchiller and also the Ice Pool.

Our product portfolio provides among others necessary cooling after extensive hot treatments and sport activities as well as unique eyecatcher for different locations and applications.



Picture: © World Spa Brooklyn, NY USA



SLX-SERIES
PAGE 6

Snowshower

Real natural snow for your Wellness and Spa resort at the push of a button.



SRX-SERIES
PAGE 30

Snowroom

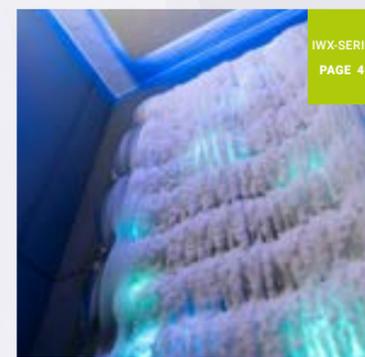
The pleasant cool down after a hot treatment is perfect for enjoying the cold.



IPX-SERIES
PAGE 36

Ice Pool

A unique cooling experience close to the freezing point after hot treatments.



IWX-SERIES
PAGE 40

Ice Wall

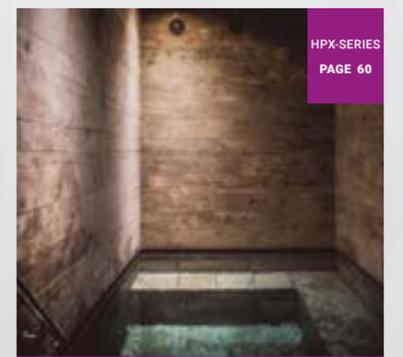
A pleasant indoor climate and optimal air humidity provided by silent working IWX Ice Walls.



ELX-SERIES
PAGE 56

Ice Fountain

Flacky and light pieces of ice are optimal to rub off the body.



HPX-SERIES
PAGE 60

Plunge Pool

The Plunge Pool provides a perfect cooling down at temperatures up to +4°C.

WHY SNOW, COLD & ICE WATER?

Experience the unique magic of winter - enjoy the beauty of snow and ice.

Enter a world full of wonders and let the fascination of winter captivate your senses. With its breathtaking snow-covered landscapes and the mesmerizing glitter of ice, this season invites you to enjoy its enchanting charm and the positive emotional impressions it leaves behind.

But it's not just the visual pleasure that winter brings us. Snow, ice and cold temperatures also have a positive effect on our health and well-being. Cold temperatures invigorate our bodies and provide a refreshing contrast to the warmth we normally seek. The fresh, cold air awakens our senses, fills us with vitality and invigorates our spirit. Enjoy the cold and let it awaken your inner strength.

Applications with snow, ice or cold air and water help to increase physical fitness and vitality. The cold temperatures encourage our bodies to regenerate independently. For example, after a sauna session, which dilates the blood vessels, cooling down with snow or cold water can help the vessels constrict. Alternating between warm and cold can stimulate blood circulation and relieve muscle tension.

At first it may feel cold and tingly, but after a few minutes it becomes a refreshing and invigorating feeling. Applying snow or ice water to the skin closes pores, tightens the skin and helps improve and revitalize skin health.

The MSK product portfolio generates winter for you 365 days a year – at any time and worldwide.



Made in **Black Forest**
Germany

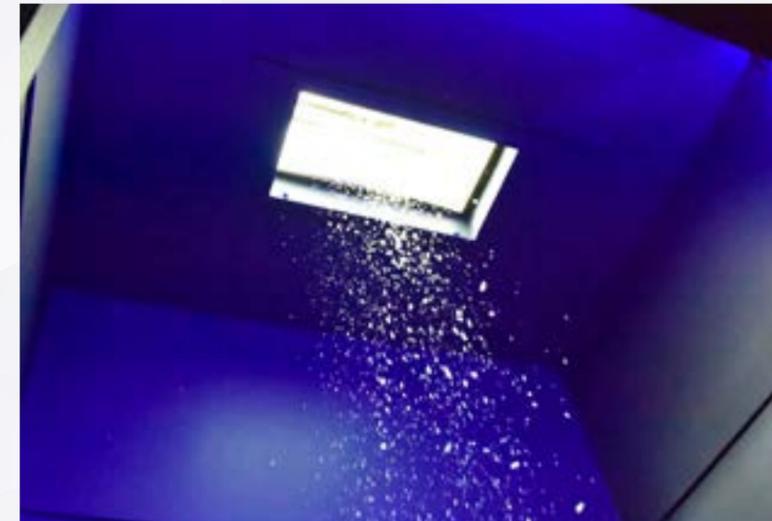
APPLICATION EXAMPLE

SNOWSHOWER

SLX-Series

With the Snowshower it is possible to produce natural snow in nearly every Wellness and Spa area. The fine snow crystals are suited outstanding for rubbing off the body after a hot treatment without hurting the skin by sharp edged ice pieces.

Treat yourself to a bath with natural snow or let soft hygienic natural snow trickle down on you or your guests.

**PRODUCT HIGHLIGHTS**

- ✓ Natural Snow
- ✓ Compact Design
- ✓ Without Chemicals
- ✓ Customized Configurations

MSK SLX W Watercooling**MSK SLX S** Split Design**MSK SLX L** Aircooling

The SLX Snowmachine generates a real snowfall without chemical additives. They offer a broad spectrum of possibility of use. A main application of the SLX Snowmachine is the use in Wellness and Spa areas to cool down after hot treatments. The fresh produced snow can be used outstanding as refreshment and for medical applications.

The SLX Snowmachine works independant of climatic conditions from +4°C up to +45°C ambient temperature. At temperatures below +4°C the SLX Snowmachine can be equipped with an optional Arctic-Kit to prevent freezing of water pipes and icing of components.

The smooth running SLX Snowmachine operates with low noise level. No matter whether at start of snow-making or during operation visitors and guests will barely not notice the SLX Snowmachine acoustically to enjoy snow experience in relaxed atmosphere.

MSK SLX

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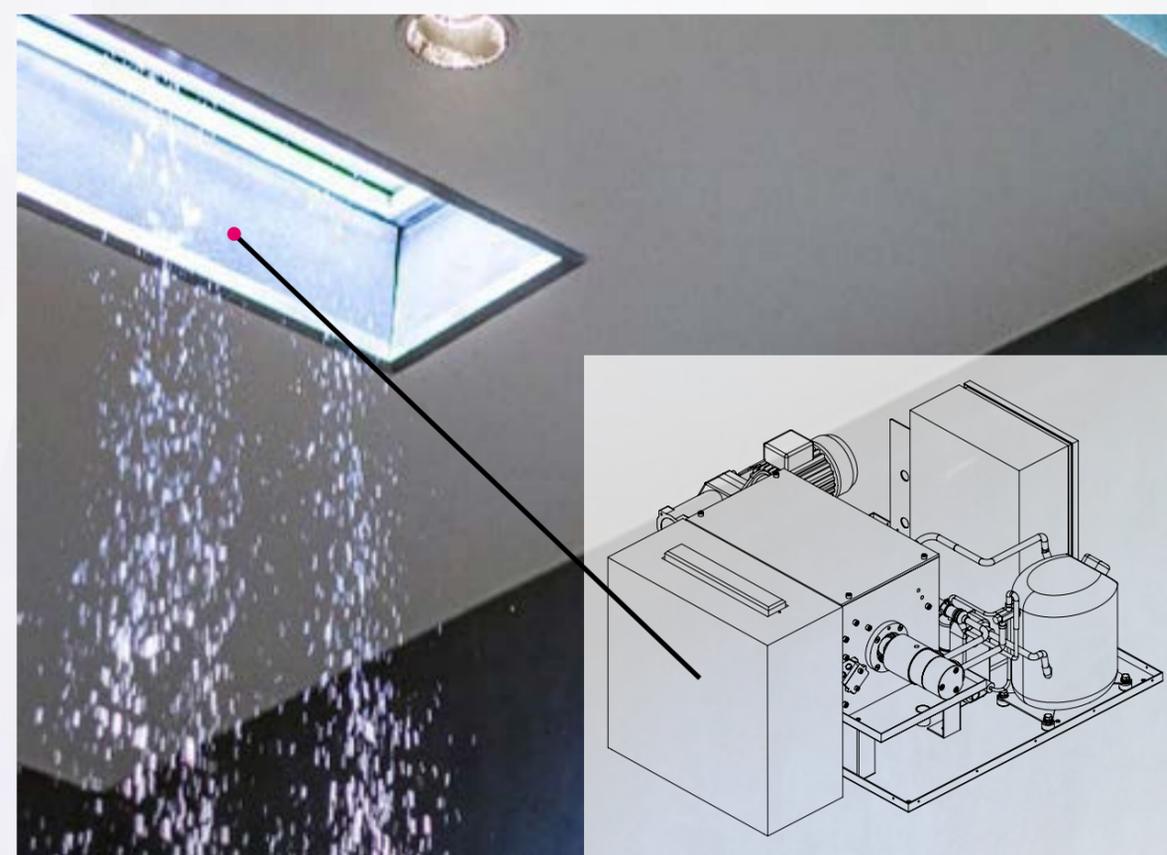
EXPLANATIONS - from Page 16

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Functional Description MSK SLX Snowmachine

The MSK SLX Snowmachine is designed and developed as a compact technical unit, for the production of real snow up to an ambient temperature of up to +45°C. Installed in the ceiling / overhead area, the produced snow will flying down as a snowfall.

The produced snow is distributed via the snow shaft mounted on the Snowmachine. The opening of the snow shaft also serves as an interface to a false ceiling or optical cladding. In the standard version, the snow shaft ends at the bottom edge of the Snowmachine. A longer snow shaft is optionally available and can be shortened to the needed length on site.



Snow Quality MSK SLX Snowmachine

One of the unique selling points of the SLX Snowmachine is the snow quality. The produced snow has a fine and soft, natural consistency. Providing a density of 90kg/m³ and made exclusively by drinking water and air.

The snowflakes and snow particles have a core temperature of -5°C with a high density and little air inclusion. This means that the produced snow is optimally insulated and has a low melting rate, even at high ambient temperatures.

Application Examples MSK SLX Snowmachine

● **Snow Fountain**

Snow falls from above into a bowl or catch basin, growing a cone-shaped snow pile with gentle and soft natural snow.



● **Snowshower**

In a shower cabin or freestanding shower area, gentle and soft natural snow falls on you from the ceiling area. A unique shower experience with an incomparable cooling effect and positive medical effects. The first choice in spa and wellness areas for cooling down and revitalizing after heat treatments.



● **Snowcabin**

The Snowcabin describes an enclosed area with one or more units of the SLX Snowmachine for snowmaking process.

The Snow cabin is cooled down to an ambient temperature of +2°C up to +12°C using MSK IWX Ice Walls. A comparably cost-effective concept to create a glacier snow landscape - a combination of snow and ice.



● **Snowroom**

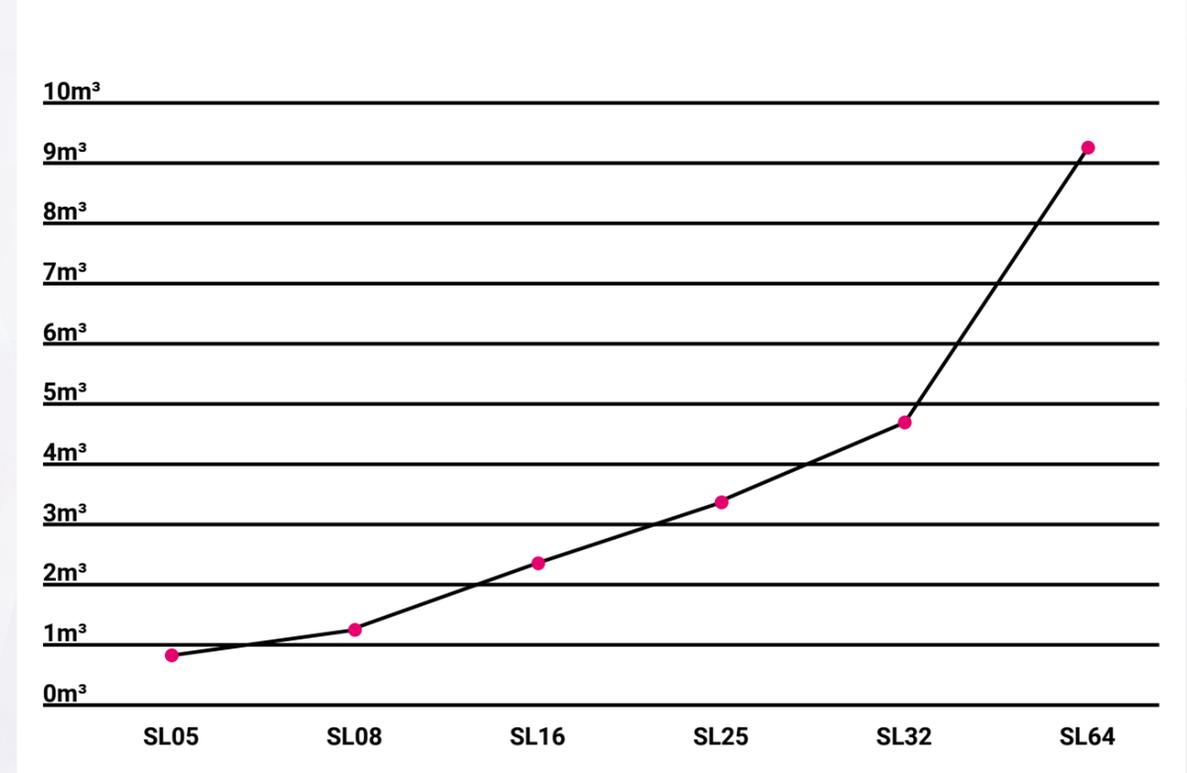
In the Snowroom, the ambient temperature is cooled down up to -10°C, but can also be colder optionally on request. Snowmaking process is carried out here primarily using the MSK NOX Snow Nozzle System, designed for the production of powder snow.

With an SLX Snowmachine, snowmaking process can also be achieved in the Snowroom without a MSK NOX Snow Nozzle System. Of course, both mentioned snowmaking options can be combined with each other.



Performance MSK SLX Snowmachine

The SLX Snowmachines differ primarily in their daily production output and are available in different basic configurations. Various optional features allow you to customize the Snowmachines.

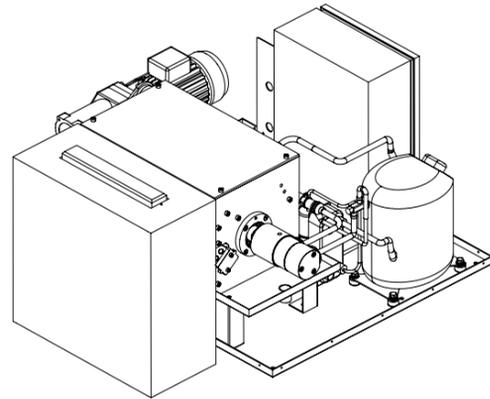


Design MSK SLX Snowmachine

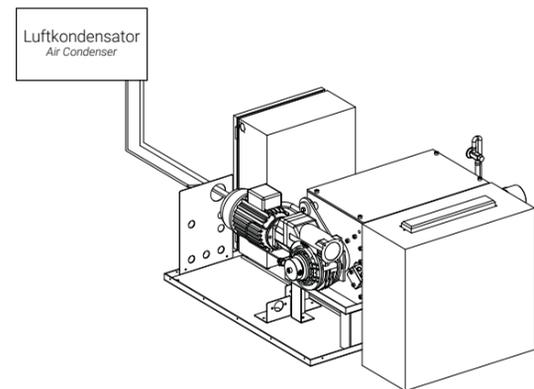
The SLX Snowmachine in watercooled and aircooled version is available as a monobloc design. In this version, all parts, components and the entire refrigeration circuit are mounted in a compact and space-saving unit.

In addition to the monobloc version, the aircooled version is also available as a split design. Here the air condenser is separated from the Snowmachine and installed in a separate location, for example outside the building. The air condenser and the Snowmachine are connected on site via refrigerant lines.

SLX Monobloc Installation



SLX Split Installation



Product Name MSK SLX Snowmachine

SLX W



Wasserkühlung

Watercooling

Monoblock Bauform

Monobloc Design

SLX L



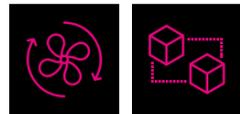
Luftkühlung

Aircooling

Monoblock Bauform

Monobloc Design

SLX S



Luftkühlung

Aircooling

Split Bauform

Split Design

Machine Cooling MSK SLX Snowmachine

The following two options are available for machine cooling

Watercooling

In the watercooled version, water is passed through the SLX Snowmachine, where it absorbs the waste heat from the machine technology and then the heated water will be discharged. Following the principle of heat recovery, the heated water can be re-used and a large part of the energy used can be recovered.

Aircooling

With the aircooled version, the waste heat from the SLX Snowmachine is released into the atmosphere as warm air via an air condenser. In the monobloc design, the air condenser is installed directly in the Snowmachine and thus releases the warm air into the environment at the installation site of the Snowmachine. With the split design, the air condenser is separated from the Snowmachine and can be installed separately, for example outside a building. The refrigeration lines and installation on site is carried out by a local refrigeration engineer.

Mechanical Construction MSK SLX Snowmachine

Compact platform design on a stainless steel base plate with little space requirement and integrated control technology. Consisting of rotary evaporator unit, condenser, piston compressor for high efficiency and reliable long operation.

The compact design of the SLX Snowmachine ensures a low sound pressure level of 71 dB(A) in the standard configuration and 67 dB(A) with the optionally available stainless steel housing.

Product Features MSK SLX Snowmachine

- Service-friendly device design on a stainless steel base plate
- Compact monobloc or split design
- Machine feet for installation on a stable subfloor
- Drill holes for mounting with threaded rods for installation under a load-bearing ceiling
- Directly driven evaporator roller
- Automatic residual water draining and cleaning
- Suction gas heat exchanger for optimal evaporator utilization
- PLC control 24 V DC with display for basic settings and status display
- Modbus interface
- Potential-free control contact
- CE marking

Installation MSK SLX Snowmachine

Placement / Mounting

The SLX Snowmachine can be placed on a cabin roof or a frame. It is also possible to hang up the SLX Snowmachine from a ceiling or frame using threaded rods.

Installation Height

The SLX Snowmachine is primarily installed in the overhead area, providing sufficient height for guests and public traffic.

The SLX Snowmachine can produce snow from an installation height of 350mm (bottom edge). This makes it suitable for use as a Snow Fountain with a low snowfall depth.

On-site connections

To operate the SLX Snowmachine, the following is required on site:

- ¾" Water Supply
- ¾" Water Drain
- 230V / 400V Power Supply

Commissioning

The SLX Snowmachine is delivered from the factory pre-configured and ready for use as a plug & play system. After placing / hanging up and installing the required on-site connections, the Snowmachine can be put into operation directly.

Service / Maintenance

To ensure the perfect functioning and a long service life of the SLX Snowmachine, various service and maintenance works are necessary at defined intervals / running times. A leak test and check of the refrigeration components by a local refrigeration engineer is required annually.



Picture: © Ultima Crans-Montana

MSK SLX Basic Control Snowmaking

The basic control and parameterization of individual settings, as well as service functions of the SLX Snowmachine, is carried out via the PLC, installed in the control cabinet with a small display and control buttons.

The SLX Snowmachine is supplied with a Piezo control button for activating and deactivating snowmaking process. The button is equipped with a light ring. This is used to visualize the operating status and fault messages using a colored flashing code.



MSK SLX Advanced Control Options

Timer Function

With the timer function you define time intervals for each day of the week on which snowmaking process starts automatically and should end automatically. This function is available with the optional touchscreen or the optional time relay.

Snow Height Sensor

The snow height sensor enables to define a minimum and maximum snow height on the ground. The snow height is continuously measured using laser measurement. When the predefined maximum snow height is reached, snowmaking process is automatically stopped. As soon as the snow height drops to the predefined minimum snow height due to defrosting or manual removal, snowmaking process starts again automatically.

The snow height sensor function has a pre-programmed time delay to ensure that snowmaking process is not deactivated by short-term external influences.

External Control

The SLX Snowmachine can be integrated and controlled by an external controller via the standard Modbus interface or potential-free contact. Fault reports can also be transmitted.

Select Basic MSK SLX Snowmachine

Due to the different design versions (monobloc or split), it is possible to choose from two variants and different machine cooling options. The snow quantity varies depending on the chosen model size.

Amount of Snow	Monobloc Design		Split Design
	Water Cooled	Air Cooled	
0,7m³	SL05W Article No. 80B0005CWM	SL05S Article No. 80B0005S	
1,2m³	SL08W Article No. 80B0008CWM	SL08L Article No. 80B0008CAN	SL08S Article No. 80B0008S
2,3m³	SL16W Article No. 80B00016CWM	SL16L Article No. 80B00016CAN	SL16S Article No. 80B00016S
3,4m³	SL25W Article No. 80B00025CWM	SL25L Article No. 80B00025CAN	SL25S Article No. 80B00025S

Select Snow Shaft MSK SLX Snowmachine

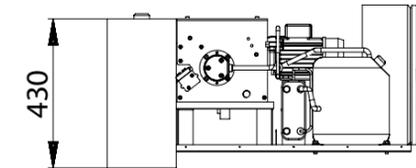
The snow shaft is an integral part of the SLX Snowmachine and serves as an interface to a false ceiling or optical cladding. In the standard version, the snow shaft ends at the bottom edge of the Snowmachine. A longer snow shaft is optionally available and can be shortened to the required length on site.

Both versions of the snow shaft are available with LED illumination - color: white or multi-colored RGB. The LED illumination enhances the snowfall effect or sets it off in an atmospheric way.

MSK SLX Snow Shaft Standard 430

The MSK SLX snow shaft standard has a shaft length of 430mm and ends at the lower edge of the MSK SLX Snowmachine.

Optionally, the snow shaft can also be equipped with LED illumination. Color: white or multicolor RGB

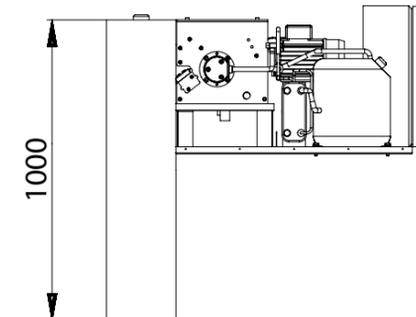


Item Name	Article No.
Snow Shaft Standard SL 05	80G005YK
Snow Shaft Standard SL 08 - 25	80G4340YK
Snow Shaft Standard SL 05 LED White	80G0005IK
Snow Shaft Standard SL 08 - 25 LED White	80G4340IK
Snow Shaft Standard SL 05 LED RGB	80G0005RGB
Snow Shaft Standard SL 08 - 25 LED RGB	80G4340RGB

MSK SLX Snow Shaft XL 1000

The MSK SLX snow shaft XL has a shaft length of 1000mm and ends far below the MSK SLX Snow-machine.

Optionally, the snow shaft can also be equipped with LED illumination. Color: white or multicolor RGB



Item Name	Article No.
Snow Shaft XL SL 05	80G1005YK
Snow Shaft XL SL 08 - 25	80G0003YK
Snow Shaft XL SL 05 LED White	80G1005IK
Snow Shaft XL SL 08 - 25 LED White	80G0003IK
Snow Shaft XL SL 05 LED RGB	80G1005RGB
Snow Shaft XL SL 08 - 25 LED RGB	80G0003RGB



Picture: © 6717 Nature Hôtel & Spa

Select Air Condensor MSK SLX Snowmachine

Functional Description Air Condensor Split Design

If the SLX Snowmachine is chosen as split design, the air condenser is separated from the main unit. The separated air condenser is installed individually outdoors and connected to the main unit on site using refrigerant lines. The refrigeration piping on site is usually carried out by a local refrigeration engineer.

The air condenser is available as a standard version without a weatherproof housing, as well as a version including weatherproof housing.

MSK SLX Air Condensor Standard Indoor

Air condensor for indoor use.



Item Name	Article No.
MSK SL05 Air Condensor Indoor	80G888
MSK SL08 Air Condensor Indoor	80G888
MSK SL16 Air Condensor Indoor	80G7777
MSK SL25 Air Condensor Indoor	80G666

MSK SLX Air Condensor with Weatherproof Housing Outdoor

Air condensor for outdoor use with weatherproof housing.



Item Name	Article No.
MSK SL05 Air Condensor Outdoor	5B0120LI
MSK SL08 Air Condensor Outdoor	5B0120LI
MSK SL16 Air Condensor Outdoor	5B0120LI
MSK SL25 Air Condensor Outdoor	95B0400LI





MSK SLX

OPTIONALE FEATURES

Picture: © Ulrika Ostead

MSK SLX Snow Height Sensor

The snow height sensor enables to define a minimum and maximum snow height on the ground. The snow height is continuously measured using laser measurement. When the predefined maximum snow height is reached, snowmaking process is automatically stopped. As soon as the snow height drops to the predefined minimum snow height, snowmaking process starts again automatically.

The snow height sensor function has a pre-programmed time delay of 120 seconds. This prevents the function from being triggered incorrectly, for example by a guest who is below the Snowmachine.



Item Name	Article No.
MSK SLX Snow Height Sensor	80G000301

MSK SLX Touchscreen Control

The standard functions of the SLX Snowmachine are visually displayed via the SLX Touchscreen. In addition to the simplified control function, the following additional functions are available:

- On/Off Function
- Timer Function
- Language Selection
- Illumination Control
- System Diagnostics



Item Name	Article No.
MSK SLX Touchscreen 3,5"	95Z00021
MSK SLX Touchscreen 7,0"	95Z00031



MSK SLX Bluetooth Timer Switch

The SLX Bluetooth Timer Switch is a time relay installed in the switch cabinet of the SLX Snowmachine and allows to define individual ON/OFF time periods for automatic snowmaking process.

The programming and administration of the SLX Bluetooth Timer Switch is done by a smartphone app (IOS / Android) via bluetooth connection.



Item Name	Article No.
MSK Bluetooth Bluetooth Timer Switch	95Z00010

MSK SLX Arctic Kit

The SLX Arctic Kit option is required when operating the SLX Snowmachine in an ambient temperature below +2°C. The SLX Snowmachine is equipped with additional heating elements, which prevent water-carrying pipes and components from freezing.



Item Name	Article No.
MSK SLX Arctic Kit	80G00081B

MSK SLX Separated Switch Cabinet

The switch cabinet of the SLX Snowmachine is installed separated from the main unit, for example in a plantroom. Including 10m connecting cable and quick-lock coupling.



Item Name	Article No.
MSK SLX Separated Switch Cabinet	80GS0071B

MSK SLX Water Drain Pump

The SLX Water Drain Pump can be used at on site installations where proper water drainage cannot be guaranteed. The water drain pump is installed directly inside the Snowmachine at the factory.



Item Name	Article No.
MSK SLX Drain Pump	21G405B1B

MSK SLX Stainless Steel Housing

The optional SLX stainless steel housing serves as a weather protection housing when installing the Snowmachine outdoors. When installed free-standing indoors, the stainless steel housing serves as a visual cover and cladding for the technology.

If the SLX Snowmachine is installed in a false ceiling or other enclosed area, the stainless steel housing cannot be used.



Item Name	Article No.
MSK SLX Stainless Steel Housing SL05W / SL05S	80G00051B
MSK SLX Stainless Steel Housing SL05L	80G00051B
MSK SLX Stainless Steel Housing SL08W – SL25W / SL08S – SL25S	80G08251B
MSK SLX Stainless Steel Housing SL08L – SL25S	80G08251B



SLX Watercooled	SL05W	SL08W	SL16W	SL25W	SL32W	SL64W
Article No.:	80B0005CWM	80B0008CWM	80B00016CWM	80B00025CWM	80B00032CWM	80B00064CWM
Ambient Temperature	Snowmachine Installation Area +2°C up to +35°C Snow Area -10°C up to +45°C					
Refrigerant	R290			R449A R454C		
Snow						
Snow Quality	Natural Snow					
Snow Weight	approx. 140kg/m³					
Snow Quantity	0,7m³/d	1,2m³/d	2,3m³/d	3,4m³/d	4,6m³/d	9,2m³/d
Power						
Power Supply	230V, 50Hz			400V, 50Hz		
Current Protection	C16A			3x C16A		3x C25A
Power Input	max. 4,3A	max. 4,8A	max. 6,7A	max. 4,7A	max. 5,1A	max. 9,8A
Power Consumption	max. 0,65kW	max. 0,65kW	max. 1,1kW	max. 2,3kW	max. 2,5kW	max. 4,8kW
Water						
Water Supply	3/4"					
Water Drain	3/4"					
Water Pressure	2 - 4bar					
Water Quality	Drinking Water					
Max. Water Quantity +10°C	max. 0,041m³/h	max. 0,066m³/h	max. 0,070m³/h	max. 0,160m³/h	max. 0,140m³/h	max. 0,460m³/h
Max. Water Quantity +20°C	max. 0,132m³/h	max. 0,132m³/h	max. 0,180m³/h	max. 0,320m³/h	max. 0,280m³/h	max. 0,820m³/h
Heat Recovering	1,1kW	1,2kW	2,5kW	4,6kW	5,0kW	10,0kW
Dimensions (L x W x H)						
Snowmachine	Project Specific	910 x 830 x 480mm			Project Specific	
Weight						
Snowmachine	approx. 80kg	approx. 90kg	approx. 125kg	approx. 190kg	Project Specific	

SLX Aircooled	SL05L	SL08L	SL16L	SL25L	SL32L	SL64L
Article No.:	80B0005CAN	80B0008CAN	80B00016CAN	80B00025CAN	80B00032CAN	80B00064CAN
Ambient Temperature	Snowmachine Installation Area +2°C up to +35°C Snow Area -10°C up to +45°C					
Refrigerant	R449A o. R454C					
Snow						
Snow Quality	Natural Snow					
Snow Weight	approx. 140kg/m³					
Snow Quantity	0,7m³/d	1,2m³/d	2,3m³/d	3,4m³/d	4,6m³/d	9,2m³/d
Power						
Power Supply	230V, 50Hz			400V, 50Hz		
Current Protection	C16A			3x C16A		3x C25A
Power Input	max. 4,3A	max. 4,8A	max. 6,7A	max. 4,7A	max. 5,1A	max. 9,8A
Power Consumption	max. 0,65kW	max. 0,65kW	max. 1,1kW	max. 2,3kW	max. 2,5kW	max. 4,8kW
Water Snowmaking						
Water Supply	3/4"					
Water Drain	3/4"					
Water Pressure	2 - 4bar					
Water Quality	Drinking Water					
Water Quantity	approx. 5l/h	approx. 8l/h	approx. 16l/h	approx. 25l/h	approx. 32l/h	approx. 64l/h
Dimensions (L x W x H)						
Snowmachine	Project Specific	910 x 830 x 850 mm			Project Specific	
Weight						
Snowmachine	approx. 80kg	approx. 90kg	approx. 125kg	approx. 190kg	Project Specific	

SLX Aircooled Split	SL05S	SL08S	SL16S	SL25S	SL32S	SL64S
Article No.:	80B0005S	80B0008S	80B00016S	80B00025S	80B00032S	80B00064S
Ambient Temperature	Snowmachine Installation Area +2°C up to +35°C Snow Area -10°C up to +45°C					
Refrigerant	R449A R454C					
Snow						
Snow Quality	Natural Snow					
Snow Weight	approx. 140kg/m³					
Snow Quantity	0,7m³/d	1,2m³/d	2,3m³/d	3,4m³/d	4,6m³/d	9,2m³/d
Power						
Power Supply	230V, 50Hz			400V, 50Hz		
Current Protection	C16A			3x C16A		3x C25A
Power Input	max. 4,3A	max. 4,8A	max. 6,7A	max. 4,7A	max. 5,1A	max. 9,8A
Power Consumption	max. 0,65kW	max. 0,65kW	max. 1,1kW	max. 2,3kW	max. 2,5kW	max. 4,8kW
Water Snowmaking						
Water Supply	3/4"					
Water Drain	3/4"					
Water Pressure	2 - 4bar					
Water Quality	Drinking Water					
Water Quantity	approx. 5l/h	approx. 8l/h	approx. 16l/h	approx. 25l/h	approx. 32l/h	approx. 64l/h
Dimensions (L x W x H)						
Snowmachine	Project Specific	910 x 830 x 480mm			Project Specific	
Air Condensor Indoor	Project Specific					
Air Condensor Outdoor	Project Specific					
Weight						
Snowmachine	approx. 80kg	approx. 90kg	approx. 125kg	approx. 190kg	Project Specific	

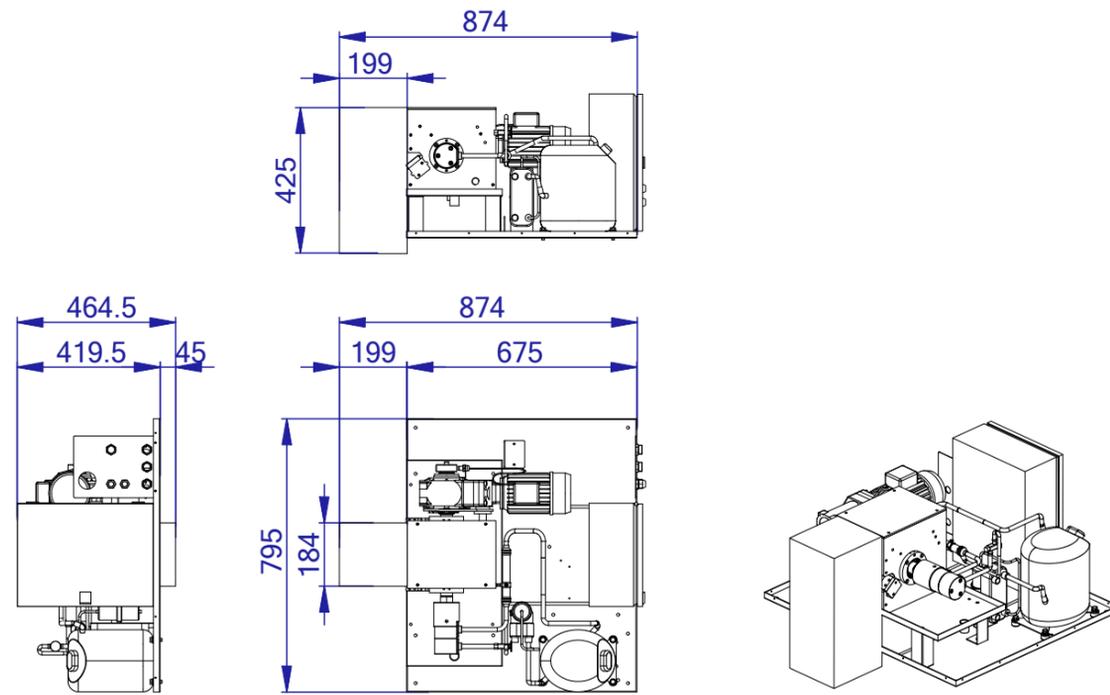


Specifications are subject to change without notice. Illustrations may deviate from the standard equipment.

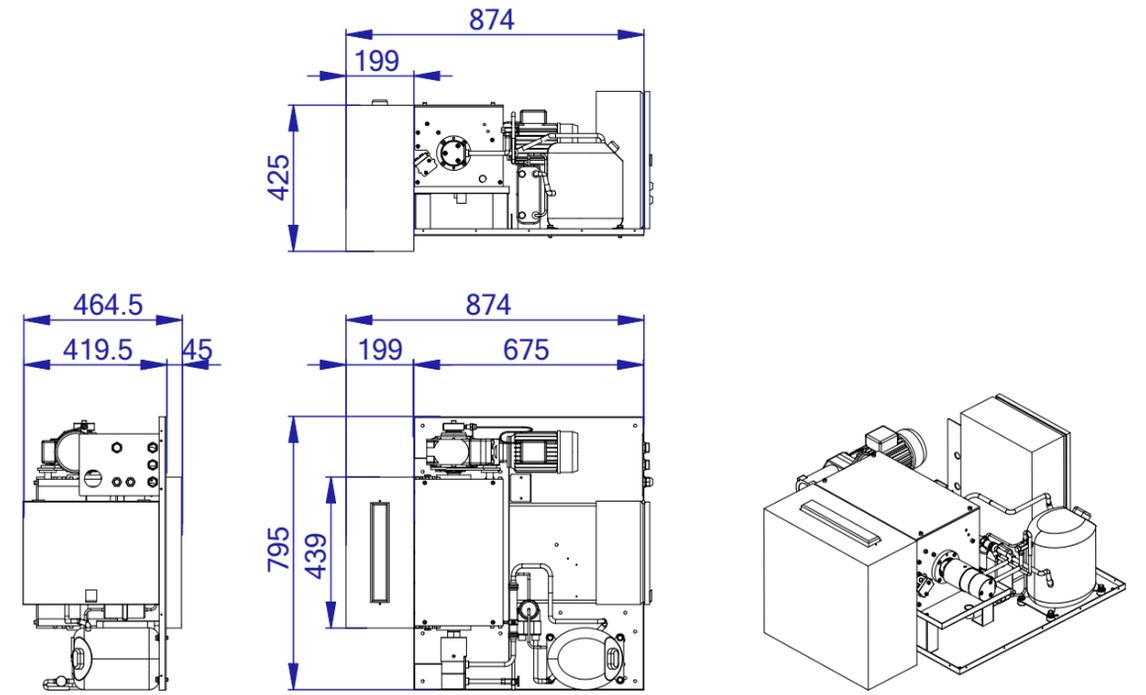
Accessories & Options	Article No.	SL05W	SL05L	SL05S	SL08W	SL08L	SL08S	SL16W	SL16L	SL16S
Required Selection SLX Aircooled Split										
Cooling Machine Air Indoor	80G888			●			●			
Cooling Machine Air Indoor	80G7777									●
Cooling Machine Air Indoor	80G666									
Cooling Machine Air Outdoor	95B0120LI			●			●			●
Cooling Machine Water	95B020WI			●			●			●
Snow Shaft										
Required Selection Snow Shaft										
Snow Shaft Standard	80G005YK	●	●	●						
Snow Shaft Standard	80G4340YK				●	●	●	●	●	●
Snow Shaft Standard incl. LED White	80G0005IK	●	●	●						
Snow Shaft Standard incl. LED White	80G4340IK				●	●	●	●	●	●
Snow Shaft Standard incl. LED RGB	80G0005RGB	●	●	●						
Snow Shaft Standard incl. LED RGB	80G4340RGB				●	●	●	●	●	●
Snow Shaft XL	80G1005YK	●	●	●						
Snow Shaft XL	80G0003YK				●	●	●	●	●	●
Snow Shaft XL incl. LED White	80G1005IK	●	●	●						
Snow Shaft XL incl. LED White	80G0003IK				●	●	●	●	●	●
Snow Shaft XL incl. LED RGB	80G1005RGB	●	●	●						
Snow Shaft XL incl. LED RGB	80G0003RGB				●	●	●	●	●	●
Stainless Steel Housing										
Housing W 05	80G0005IB	●		●						
Housing W 08 - 25	80G0825IB				●		●	●		●
Housing W 32 - 64	On Request									
Housing L 05	80G0005LIB		●							
Housing L 08 - 25	80G0825LIB					●			●	
Housing L 32 - 64	On Request									
Accessories										
Snow Height Sensor	80G0003OI	●	●	●	●	●	●	●	●	●
Blizzard Module	80G0007IB	●	●	●	●	●	●	●	●	●
Separated Switch Cabinet	80GS007IB	●	●	●	●	●	●	●	●	●
Bluetooth Timer Switch	95Z00010	●	●	●	●	●	●	●	●	●
Touchscreen 3,5"	95Z0002I	●	●	●	●	●	●	●	●	●
Touchscreen 7,0"	95Z0003I	●	●	●	●	●	●	●	●	●
Remote Maintenance	On Request	●	●	●	●	●	●	●	●	●
Water Drain Pump	21G405BIB	●	●	●	●	●	●	●	●	●
Arctic-Kit	80G0008IB	●	●	●	●	●	●	●	●	●

Accessories & Optionals	Article No.	SL25W	SL25L	SL25S	SL32W	SL32L	SL32S	SL64W	SL64L	SL64S
Required Selection SLX Aircooled Split										
Cooling Machine Air Indoor	80G888							On Request		On Request
Cooling Machine Air Indoor	80G7777							On Request		On Request
Cooling Machine Air Indoor	80G666			●				On Request		On Request
Cooling Machine Air Outdoor	95B0400LI			●				On Request		On Request
Cooling Machine Water	95B0400WI			●				On Request		On Request
Snow Shaft										
Required Selection Snow Shaft										
Snow Shaft Standard	80G005YK							On Request		On Request
Snow Shaft Standard	80G4340YK	●	●	●						
Snow Shaft Standard incl. LED White	80G0005IK							On Request		On Request
Snow Shaft Standard incl. LED White	80G4340IK	●	●	●						
Snow Shaft Standard incl. LED RGB	80G0005RGB									
Snow Shaft Standard incl. LED RGB	80G4340RGB	●	●	●						
Snow Shaft XL	80G1005YK									
Snow Shaft XL	80G0003YK	●	●	●						
Snow Shaft XL incl. LED White	80G1005IK							On Request		On Request
Snow Shaft XL incl. LED White	80G0003IK	●	●	●						
Snow Shaft XL incl. LED RGB	80G1005RGB									
Snow Shaft XL incl. LED RGB	80G0003RGB	●	●	●						
Stainless Steel Housing										
Housing W 05	80G0005IB									
Housing W 08 - 25	80G0825IB	●		●						
Housing W 32 - 64	On Request				●		●	●		●
Housing L 05	80G0005LIB									
Housing L 08 - 25	80G0825LIB		●							
Housing L 32 - 64	On Request						●		●	
Accessories										
Snow Height Sensor	80G0003OI	●	●	●				On Request		On Request
Blizzard Module	80G0007IB	●	●	●	2x ●	2x ●	2x ●	4x ●	4x ●	4x ●
Separated Switch Cabinet	80GS007IB	●	●	●	2x ●	2x ●	2x ●	4x ●	4x ●	4x ●
Bluetooth Timer Switch	95Z00010	●	●	●				On Request		On Request
Touchscreen 3,5"	95Z0002I	●	●	●				On Request		On Request
Touchscreen 7,0"	95Z0003I	●	●	●	●	●	●	●	●	●
Remote Maintenance	On Request	●	●	●				On Request		On Request
Water Drain Pump	21G405BIB	●	●	●	2x ●	2x ●	2x ●	4x ●	4x ●	4x ●
Arctic-Kit	80G0008IB	●	●	●	2x ●	2x ●	2x ●	4x ●	4x ●	4x ●

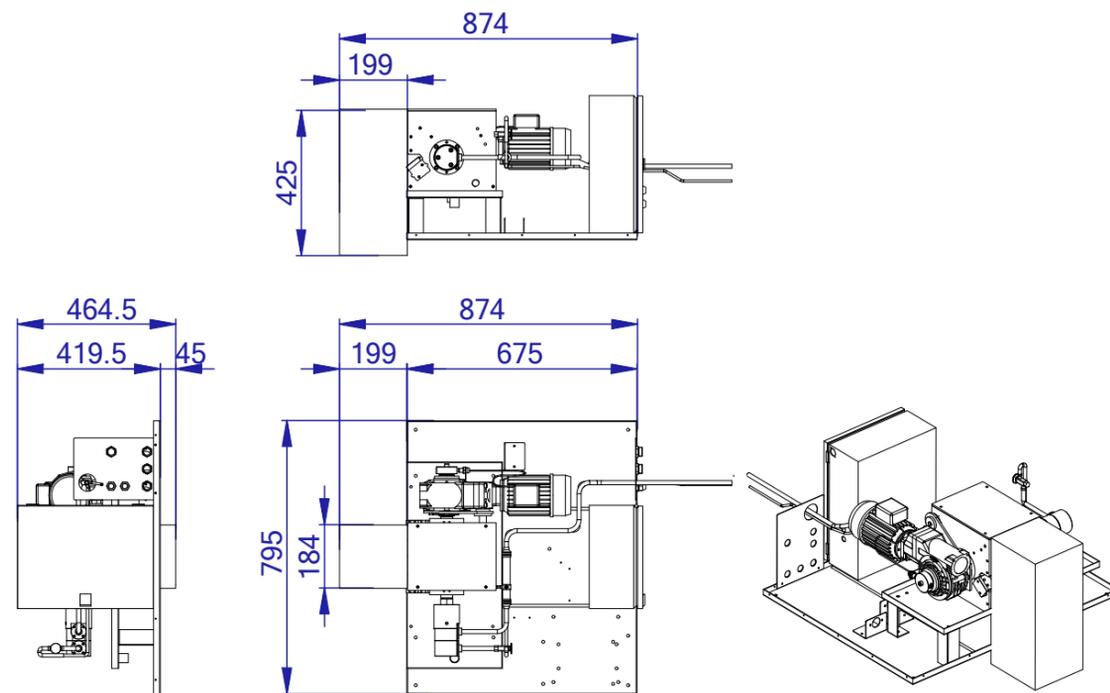
MSK SL05 W Dimensional Drawing



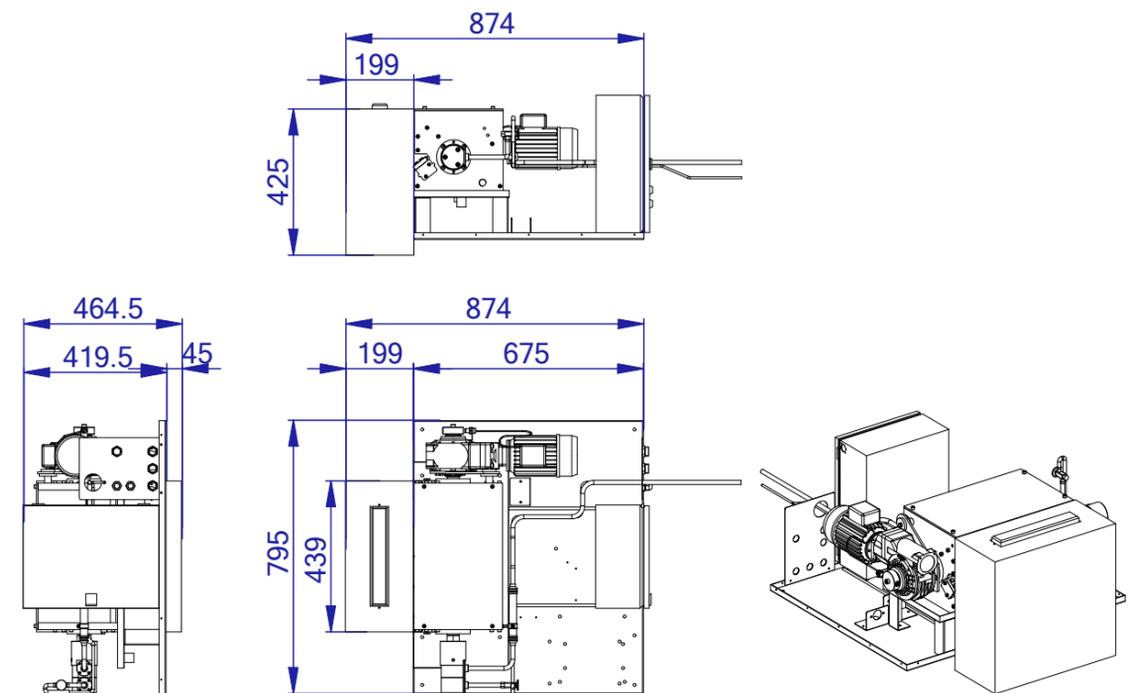
MSK SL08-25 W Dimensional Drawing



MSK SL05 S Dimensional Drawing



MSK SL08-25 S Dimensional Drawing





SNOWROOM

SRX-Series

At constant temperatures below the freezing point the snow retains steady in powdery consistence. The ambient cooling can be done by external SRX Snowmachine which provides cold air tot he Snowroom by an air supply system. Alternatively you can install IWX Ice Walls as „silent cooling“ in the Snowroom. By using IWX Ice Walls energy loss can be reduced.

A Snowroom provides a real winter scenery which is perfect to cool down after heat treatments. The balance between air temperature and humidity activates vital functions and strengthens the circulation.

Snowrooms or Snowcabins can be configurated individually and use different kind of snowmaking systems.



External Cooling

A Snowroom working with SRX Snowmachine and external cooling consists of an air conditioning plant and chamber to generate cold air which will be provided to the Snowroom by air pipes to cool down ambient temperature below the freez-



Direct Cooling

The direct cooling provides cold energy for ambient cooling and snowmaking via IWX Ice Walls which will be installed inside the Snowroom at walls or at the ceiling. The direct cooling is sluggish compared to an external cooling and needs more time for ambient cooling.



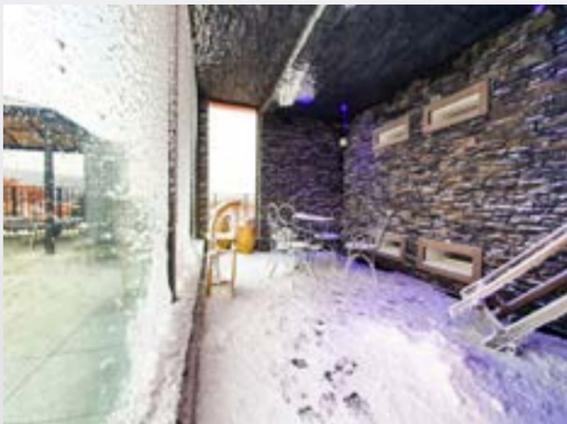
PRODUCT HIGHLIGHTS

- ✓ Natural Winter Landscape
- ✓ Real Powder Snow
- ✓ Stimulating the vital Functions and the senses
- ✓ Customizable

MSK SRX W Watercooling
MSK SRX L Aircooling

By combining different MSK snowmaking systems like the snow nozzles and direct snowfall by SLX Snowmachines in combination with optional blizzard module an attractive winter scenery can be created.

The snow quantity inside the Snowroom or Snowcabin is unlimited but can vary according to the capacity.



Snow Nozzles

Snowmaking will be done inside the Snowroom by one or more snow nozzles installed at the upper walls. Using multiple snow nozzles enables a targeted and extensive spreading of snow inside the Snowroom.



Direct Snowfall

On top of the Snowroom ceiling you can install one or more units of SLX Snowmachines to generate a real snowfall inside the Snowroom area.



SRX Air Cooled	SR04L	SR08L	SR12L	SR18L
Article No.:	109B0001	109B0002	109B0003	109B0004
Snowroom Inside Surface	max. 4m²	max. 8m²	max. 12m²	max. 18m²
Snowroom Temperature	-1°C bis -10°C			
Refrigerant	R449A R454C			
Snow	Powder Snow			
Snow Quality	Powder Snow			
Snow Quantity	10 - 30 kg/h			20 - 60 kg/h
Snow Nozzle	max. 3 pcs.		max. 4 pcs.	max. 6 pcs.
Power	400V, 50Hz			
Power Supply	400V, 50Hz			
Current Protection	C16A	C20A	C32A	C40A
Power Input	8,2A	12,0A	16,5A	24,0A
Power Consumption	Ø 4,9kW max. 7,1 kW	Ø 6,6kW max. 9,4 kW	Ø 9,1kW max. 12,9 kW	Ø 13,1kW max. 18,8 kW
Water Snowmaking	3/4"			
Water Supply	3/4"			
Water Pressure	2 - 4bar			
Water Quality	Drinking Water			
Dimensions (L x W x H)	Project Specific			
Snowmachine	1.780 x 780 x 1.800 mm			Project Specific
Air Condensor	Project Specific			
Air Compressor	1.150 x 480 x 950 mm			
Snow Separator	715 x 200 x 570 mm			2x 715 x 200 x 570 mm
Snow Nozzle	150 x 150 x 80 mm			
Weight	Project Specific			
Snowmachine	400 - 500 kg		450 - 550 kg	500 - 730 kg
Air Condensor	Project Specific			
Air Compressor	approx. 100 kg			
Snow Separator	approx. 15 kg			
Snow Nozzle	approx. 0,7 kg			

Accessories & Options SRX Air Cooled	Article No.	SR04L	SR08L	SR12L	SR18L
Required Selection Cooling Machine					
Cooling Machine Air Indoor	109G888	●			
Cooling Machine Air Indoor	109G777		●		
Cooling Machine Air Indoor	109G666			●	
Cooling Machine Air Indoor	109G555				●
Cooling Machine Air Outdoor	109B004LI	●			
Cooling Machine Air Outdoor	109B005LI		●		
Cooling Machine Air Outdoor	109B006LI			●	
Cooling Machine Air Outdoor	109B007LI				●
Accessories					
Snow Nozzle	109G0001IK	●	●	●	●
Air Pipes	109G1002IK	●	●	●	●
LED RGB Illumination	On Request	●	●	●	●

SRX Wassergekühlt	SR04W	SR08W	SR12W	SR18W
Article No.	109B0001	109B0002	109B0003	109B0004
Snowroom Inside Surface	max. 4m²	max. 8m²	max. 12m²	max. 18m²
Snowroom Temperature	-1°C bis -10°C			
Refrigerant	R449A R454C			
Snow	Powder Snow			
Snow Quality	Powder Snow			
Snow Quantity	10 - 30 kg/h			20 - 60 kg/h
Snow Nozzle	max. 3 pcs.		max. 4 pcs.	max. 6 pcs.
Power	400V, 50Hz			
Power Supply	400V, 50Hz			
Current Protection	C16A	C20A	C32A	C40A
Power Input	8,2A	12,0A	16,5A	24,0A
Power Consumption	Ø 4,9kW max. 7,1 kW	Ø 6,6kW max. 9,4 kW	Ø 9,1kW max. 12,9 kW	Ø 13,1kW max. 18,8 kW
Water Snowmaking	3/4"			
Water Supply	3/4"			
Water Pressure	2 - 4 bar			
Water Quality	Drinking Water			
Water Cooling	Project Specific			
Water IN	1"			
Water OUT	1"			
Water Pressure	Project Specific			
Pressure Drop	Project Specific			
Water Quality	Non-Potable Water (Optionally other Water Quality)			
Max. Water Quantity +10°C	max. 0,45 m³/h	max. 0,55 m³/h	max. 0,62 m³/h	max. 0,70 m³/h
Max. Water Quantity +20°C	max. 0,48 m³/h	max. 0,58 m³/h	max. 1,10m³/h	max. 1,50 m³/h
Heat Recovering	7,0 kW	8,0 kW	13,0 kW	22,0 kW
Dimensions	Project Specific			
Snowmachine	1.780 x 780 x 1.800 mm			Project Specific
Air Compressor	1.150 x 480 x 950 mm			
Snow Separator	715 x 200 x 570 mm			2x 715 x 200 x 570 mm
Snow Nozzle	150 x 150 x 80 mm			
Weight	Project Specific			
Snowmachine	400 - 500 kg		450 - 550 kg	500 - 730 kg
Air Compressor	approx. 100 kg			
Snow Separator	approx. 15 kg			
Snow Nozzle	approx. 0,7 kg			

Accessories & Options SRX Water Cooled	Article No.	SR04W	SR08W	SR12W	SR18W
Required Selection Cooling Machine					
Cooling Machine Water	109B004WI	●			
Cooling Machine Water	109B005WI		●		
Cooling Machine Water	109B006WI			●	
Cooling Machine Water	109B007WI				●
Accessories					
Snow Nozzle	109G0001IK	●	●	●	●
Air Pipes	109G1002IK	●	●	●	●
LED RGB Illumination	On Request	●	●	●	●

Specifications are subject to change without notice. Illustrations may deviate from the standard equipment.



Ice Pool

IPX-Series

The Ice Pools of the IPX Series providing a unique experience of cooling down and refreshment which is optimal for Wellness and Spa, physiotherapeutic and medical applications as well as relaxation after competitive sports.

A wide range of IPX Ice Pool complete packages covering different sizes of Ice Pools and water volumes containing insulated stainless steel pools with entry ladder, LED RGB illumination and skimmer, integrated cooling technology, water treatment and process control.

Inside the IPX Ice Pool 3 sidewalls are chilled and will get covered with crystal clear ice. The water temperature will be cooled down to the freezing point of around +0,1°C.



PRODUCT HIGHLIGHTS

- ✓ Cooling for the whole Body
- ✓ Ice on the inner Walls
- ✓ Cold Fog
- ✓ Optional Ice addition

MSK IPX L Aircooling
 MSK IPX W Watercooling
 MSK IPX S Split Design

By the cooling of the inside sidewalls an ice formation is created starting at water temperature of approx. +6°C and accrues a fascinating play of colours in combination with the LED RGB illumination. An optional cold fogger creates a mystic atmosphere above the illuminated water.

As installation above ground level the IPX Ice Pool will be integrated into a platform and the needed engineering will be placed following customer preference.

Sub floor installation requires an accessible inspection shaft to perform necessary installation and service works. For the placement of the needed engineering a nearby plantroom is needed.



IPX Air Cooled	IP1.0L	IP2.0L	IP3.0L	IP4.0L	IP5.0L	IP6.0 L
Article No.:	114B0010	114B0020	114B0030	114B0040	114B0050	114B0060
Water Volume	max. 1m³	max. 2m³	max. 3m³	max. 4m³	max. 5m³	max. 6m³
Water Temperature	+0,5°C up to +6,0°C					
Ice Pool Material	Stainless Steel					
Refrigerant	R449A R454C					
Ice Panels	max. 3x					
Water						
Water Circuit	Skimmer Overflow Gutter					
Water Quality	Pool Water					
Water Treatment	Chlorine Bromine					
UV Disinfection	Optionally Available					
Water Supply	1"					
Power						
Power Supply	230V, 50Hz			400V, 50Hz		
Current Protection	C16A			3x C16A		
Power Input	max. 12,0A	max. 14,0A	max. 8,0A	max. 10,0A	max. 12,0A	max. 14,0A
Power Consumption	1,0kW	1,4kW	2,4kW	3,0kW	3,6kW	4,3kW
Dimensions						
Ice Pool Inside	Project Specific					
Ice Pool Outside	Project Specific					
Cooling Machine	Project Specific					
Pump and Filter	Project Specific					
Weight	Project Specific					

IPX Water Cooled	IP1.0W	IP2.0W	IP3.0W	IP4.0W	IP5.0W	IP6.0W
Article No.:	114B0010	114B0020	114B0030	114B0040	114B0050	114B0060
Water Volume	max. 1m³	max. 2m³	max. 3m³	max. 4m³	max. 5m³	max. 6m³
Water Temperature	+0,5°C up to +6,0°C					
Ice Pool Material	Stainless Steel					
Refrigerant	R449A R454C					
Ice Panels	max. 3x					
Water						
Water Circuit	Skimmer Overflow Gutter					
Water Quality	Pool Water					
Water Treatment	Chlorine Bromine					
UV Disinfection	Optionally Available					
Water Supply	1"					
Power						
Power Supply	230V, 50 Hz			400V, 50Hz		
Current Protection	C16A			3xC16A		
Power Input	2,2A	3,3A	4,4A	5,5A	6,6A	7,7A
Power Consumption	1,2kW	1,6kW	2,6kW	3,0kW	3,0kW	4,3kW
Dimensions						
Ice Pool Inside	Project Specific					
Ice Pool Outside	Project Specific					
Cooling Machine	Project Specific					
Pump and Filter	Project Specific					
Weight	Project Specific					

Specifications are subject to change without notice. Illustrations may deviate from the standard equipment.

Accessories & Options	Article No.	IP1.0	IP2.0	IP3.0	IP4.0	IP5.0	IP6.0
Required Selection Cooling Machine							
Cooling Machine Indoor	114G889	●					
Cooling Machine Indoor	114G7777		●				
Cooling Machine Indoor	114G6666			●			
Cooling Machine Indoor	114G5555				●		
Cooling Machine Indoor	114G4444					●	
Cooling Machine Indoor	114G3333						●
Cooling Machine Outdoor	114B0120LI	●					
Cooling Machine Outdoor	114B0400LI		●				
Cooling Machine Outdoor	114B0700LI			●			
Cooling Machine Outdoor	114B0800LI				●		
Cooling Machine Outdoor	114B0900LI					●	
Cooling Machine Outdoor	114B1000LI						●
Cooling Machine Water	114B0120WI	●					
Cooling Machine Water	114B0400WI		●				
Cooling Machine Water	114B0700WI			●			
Cooling Machine Water	114B0800WI				●		
Cooling Machine Water	114B0900WI					●	
Cooling Machine Water	114B1000WI						●
Accessories							
Head Icing	114G0005IK	●	●				
Head Icing	114G0007IK			●			
Head Icing	114G0008IK				●		
Head Icing	114G0009IK					●	
Head Icing	114G0010IK						●
UV Disinfection	On Request	●	●	●	●	●	●
Fog Generator	114G0006IK	●	●	●	●	●	●
Entry Ladder	114G0003IK	●	●	●	●	●	●
LED RGB Illumination	114G0001IK	●	●	●	●	●	●
Water Treatment	114B0120WI	●	●	●	●	●	●
Touchscreen 3,5"	95Z0002I	●	●	●	●	●	●
Touchscreen 7,0"	95Z0003I	●	●	●	●	●	●

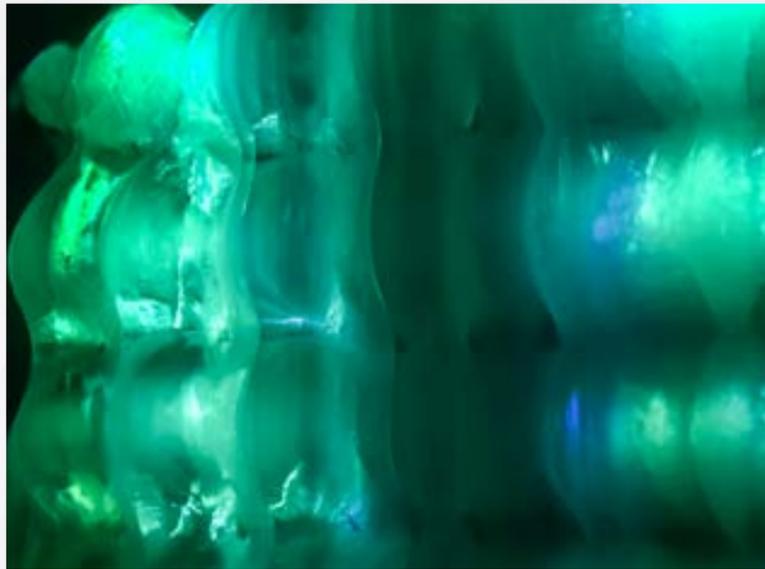


ICE WALL

IWX-Series

An IWX Ice Wall can be used as silent room cooling like for example a Frigidarium or recreation room. The IWX Ice Wall reduces the air humidity and creates a pleasant atmosphere.

On the surface an ice layer is created. In combination with colour illumination an eye-catcher appears for example at your foyer, the Snowroom or your Wellness and Spa resort.



PRODUCT HIGHLIGHTS

- ✓ Silent Room Cooling
- ✓ Lowers Humidity
- ✓ Without Chemical Additives
- ✓ Silent Ice Buildup

MSK IWX L Aircooling

MSK IWX W Watercooling

The MSK IWX Series includes individually manufactured Ice Wall panels for a unique wall design providing real ice. It is suitable for equipping an Iceroom, Frigidarium or Glacier Cave and even for use as direct cooling for a Snowroom.

The ice layer is built up by the atmospheric humidity. Water particles condense on the Ice Wall and form the ice layer. This means the ice grows dynamically and changes its appearance every day.

Optionally, the MSK IWX Series can be equipped with a water drop system installed above the Ice Wall and allows water to run over the ice layer at intervals. This water freezes and build up the ice layer more quickly.



Glacier Fascination

Functional Description MSK IWX Ice Wall

The IWX Ice Wall consists of one or more supercooled stainless steel panels which can be installed at the wall and ceiling area. Due to the supercooling, a natural and real ice layer arises.

Similar to a natural glacier wall, the ice surface constantly changes its appearance, shape and ice structure.

In a closed and insulated room / cabin, the IWX Ice Wall enables a cooling down of the ambient temperature. Depending on the design and configuration, arctic room temperatures up to -10°C can get generated.

Ice Quality MSK IWX Ice Wall

The ice quality of the IWX Ice Wall corresponds to real glacier ice - the best that Mother Nature has to offer.

The glacier ice of the IWX Ice Wall grows dynamically in shape and size, as well as changing the ice structure due to variable environmental conditions. Sometimes the ice appears white color structure, sometimes in a crystal clear, almost transparent look.

Ice Buildup MSK IWX Ice Wall

The ice layer is built up by the atmospheric humidity. From the physical point of view, water particles in the air locate in proximity and automatically move there.

Optionally, the MSK IWX Series can be equipped with the IWX Automatic Ice Layer function, a water drop system installed above the Ice Wall which let little amount of water run over the ice layer at intervals. This water freezes on the surface and build up the ice layer more quickly.

Application Examples MSK IWX Ice Wall

Glacier Wall Decoration

One or more stainless steel panels can be installed on a load-bearing wall. These form a unique visual wall design with real ice.

Frigidarium / Iceroom

In a closed and insulated cabin, the stainless steel panels of the IWX Ice Wall are used to cool down the ambient temperature. Depending on the desired ambient temperature, the configuration of the machine technology is calculated individually and designed specifically for the project. This type of cooling down ambient temperature is called a direct room cooling, without indirect air conditioning system and cold draught in the atmosphere, is comparatively inexpensive, easy to install and very easy to maintain with little space required for machine technology.

Next to the benefit of cooling down the ambient temperature, the IWX Ice Wall provides a unique visual wall design with real ice.

Snowcabin

In the Snowcabin, the IWX Ice Wall works hand in hand with the installed MSK SLX Snowmachines and takes over the part of cooling down the ambient temperature to +2°C up to +12°C.

A comparably cost-effective concept to create a glacier snow landscape - a combination of snow and ice.

Snowroom

In the Snowroom, the ambient temperature is cooled down up to -10°C, but can also be colder on request. The snowmaking process is carried out by different types of Snowmachines and Snowsystems, or even a combination of several technologies.

For cooling down the ambient temperature and to generate cold energy, the Snowroom can be equipped with the IWX Ice Wall. Compared to conventional Snowroom Snowsystems, the advantage is a significantly lower investment and operational costs, less space required for machine technology and installation effort.



Technical Details MSK IWX Ice Wall

Surface Sizes MSK IWX Ice Wall

The IWX Ice Wall is available in different package sizes from 1m² - 6m². For surface sizes larger 6m², an individual configuration will get calculated.

Dimensions MSK IWX Ice Wall within Surface Sizes

Withing the given surface sizes, individual dimensions of length and width are possible. The MSK team check and confirm the desired dimensions, taking into account restrictions in the manufacturing process. If the desired dimensions cannot be achieved, the MSK team will suggest alternative dimensions.



Picture: ©Nicollier Group SA

Product Name MSK IWX Ice Wall

<p>IWX W</p>	 	<p>Wasserkühlung Watercooling Split Bauform Split Design</p>
<p>IWX L</p>	 	<p>Luftkühlung Aircooling Split Bauform Split Design</p>

Machine Cooling MSK IWX Ice Wall

The following two options are available for machine cooling

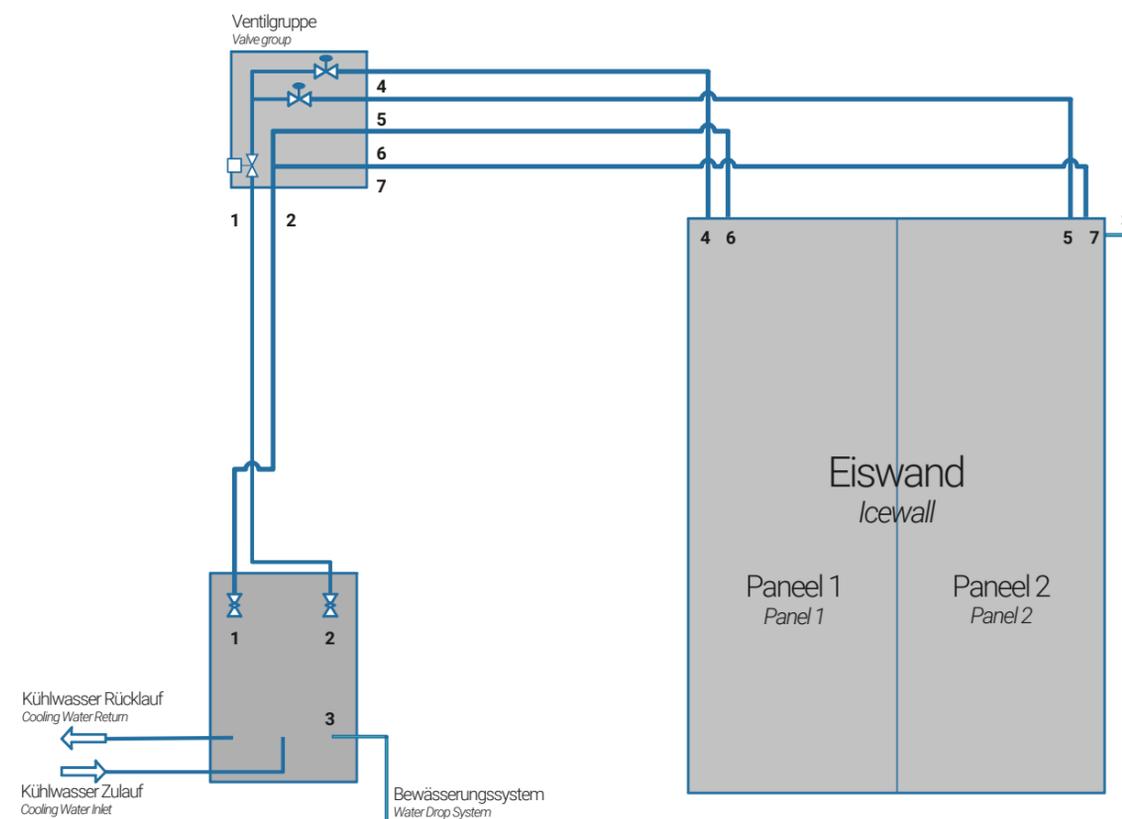
Watercooling

In the watercooled version, water is passed through the cooling machine of the IWX Ice Wall, where it absorbs the waste heat from the machine technology and then the heated water will be discharged. Following the principle of heat recovery, the heated water can be re-used and a large part of the energy used for IWX Ice Wall can be recovered.

Aircooling

In the aircooled version, the waste heat from the cooling machine of the IWX Ice Wall is released into the atmosphere as warm air via an air condenser. The air condenser is separated from the cooling machine and can be installed separately, for example outside the building. The refrigeration lines and installation on site is carried out by a local refrigeration engineer.

MSK IWX Ice Wall Flow Diagram



Installation MSK IWX Ice Wall

Wall Installation

The stainless steel panels of the IWX Ice Wall are installed on a load-bearing mounting wall. With a total surface size of max. 2m², a single segment of stainless steel panel is mounted on the wall area. The segment is connected directly to the cooling machine using refrigerant lines.

If the total surface size is larger than 2m², the IWX Ice Wall is divided into several segments and installed on the wall area. The segments can be arranged to form a total surface or distributed over the wall. The single IWX Ice Wall segments are brought together and collected centrally in the technical area outside the room / cabin at a valve group using refrigerant lines. The valve group is connected to the cooling machine of the IWX Ice Wall.

Mounting Devices

There are 3 options for installing the IWX Ice Wall:

- Mounting Brackets
- Mounting Rails
- Boreholes

Ceiling Installation

If the IWX Ice Wall is used as ambient cooling, it is possible to mount segments under the ceiling of the room / cabin. This is not possible if the IWX Ice Wall is used for decoration purposes.

Refrigeration Lines and Cooling Machine

The cooling machine is placed in an external plantroom and connected to the IWX Ice Wall or the valve group via refrigeration lines, installed on site.

On-site Connections

To operate the IWX Ice Wall, the following is required on site:

- 3/4" Water Supply (only by using watercooling and / or option IWX Automatic Ice Layer)
- DN32 Water Drain (only by using watercooling)
- 230V / 400V Power Supply

Commissioning

The IWX Ice Wall is commissioned on site by a local refrigeration engineer

Service / Maintenance

To ensure the perfect functioning and a long service life of the IWX Ice Wall, various service and maintenance works are necessary at defined intervals / running times. A leak test and check of the refrigeration components by a local refrigeration engineer is required annually.



Control MSK IWX Ice Wall

The MSK Ice Wall is controlled via an ON/Off button. As soon as the IWX Ice Wall is switched on, the cooling machine runs in continuous operation. If the IWX Ice Wall is switched off, the area in front of the stainless steel panel must be secured against ice breakage.

If optional equipment is selected, such as the fog generator, automatic ice layer function or the LED light points, the optional IWX Touchscreen Control must be selected.



IWX Typ	Ice Wall Surface	
IW1	up to 1m²	IW1 Article No. 108B0001
IW2	up to 2m²	IW2 Article No. 108B0002
IW3	up to 3m²	IW3 Article No. 108B0003
IW4	up to 4m²	IW4 Article No. 108B0004
IW5	up to 5m²	IW5 Article No. 108B0005
IW6	up to 6m²	IW6 Article No. 108B0006

MSK IWX Watercooling

Watercooling for indoor installation



Item Name	Article No.
MSK IW1W Watercooling	108B0120WI
MSK IW2W Watercooling	108B0120WI
MSK IW3W Watercooling	108B0400WI
MSK IW4W Watercooling	108B0400WI
MSK IW5W Watercooling	108B0700WI
MSK IW6W Watercooling	108B0700WI

MSK IWX Air Condensator Indoor

Air condensator for indoor use.



Item Name	Article No.
MSK IW1L Air Condensator Indoor	108G888
MSK IW2L Air Condensator Indoor	108G889
MSK IW3L Air Condensator Indoor	108G7777
MSK IW4L Air Condensator Indoor	108G7777
MSK IW5L Air Condensator Indoor	108G6666
MSK IW6L Air Condensator Indoor	108G6666

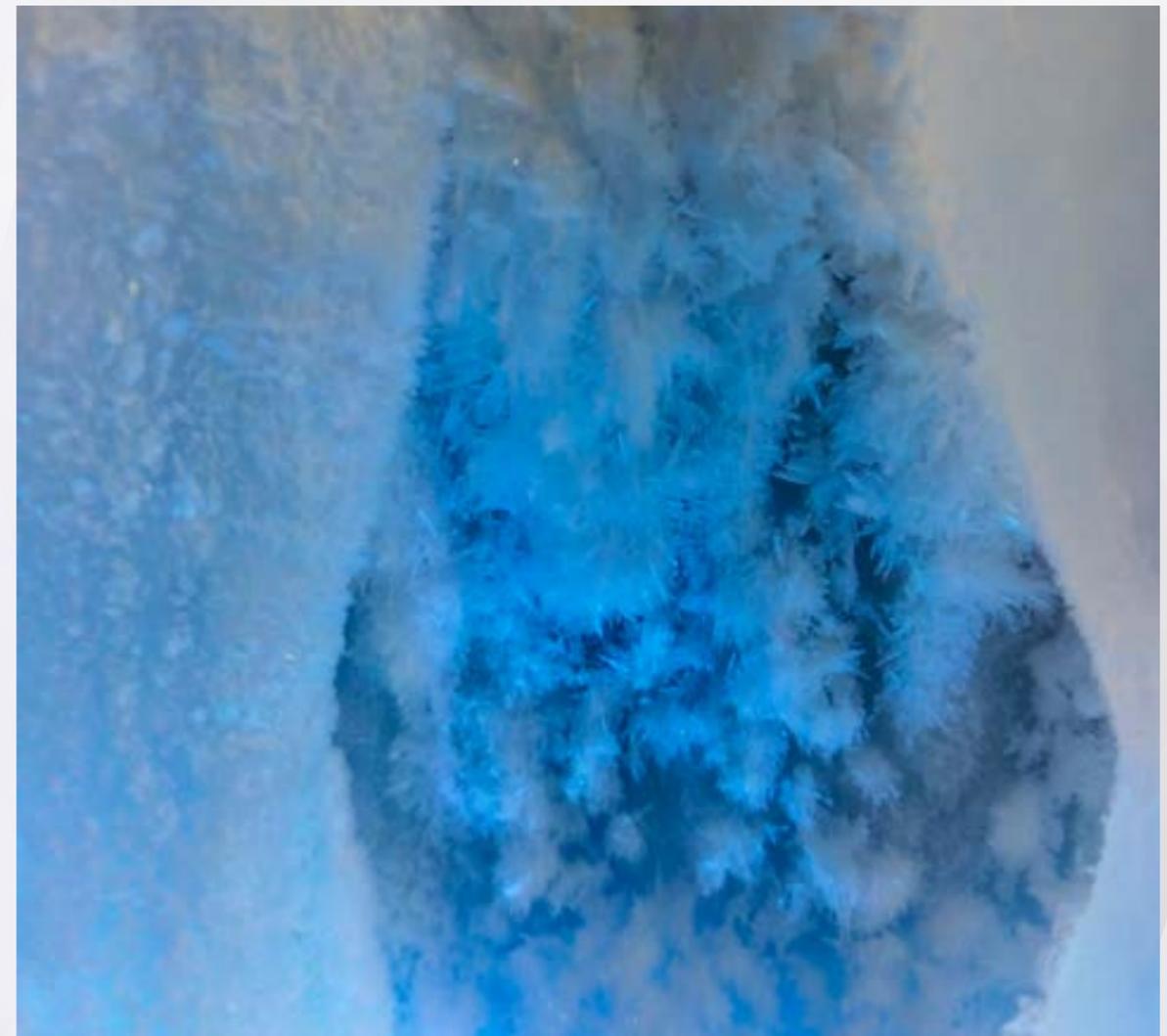


MSK SLX Air Condensator with Weatherproof Housing Outdoor

Air condensator for outdoor use with weatherproof housing.

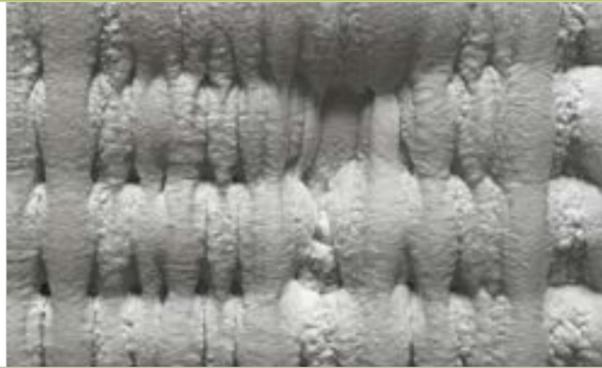


Item Name	Article No.
MSK IW1L Air Condensator Outdoor	108B0120LI
MSK IW2L Air Condensator Outdoor	108B0120LI
MSK IW3L Air Condensator Outdoor	108B0400LI
MSK IW4L Air Condensator Outdoor	108B0400LI
MSK IW5L Air Condensator Outdoor	108B0700LI
MSK IW6L Air Condensator Outdoor	108B0700LI



MSK IWX Automatic Ice Layer

The IWX Automatic Ice Layer function sped up the growth of the ice layer. Installed in upper area and automatically controlled, little amount of water run over the ice layer at intervals. This water freezes on the surface and build up the ice layer more quickly.



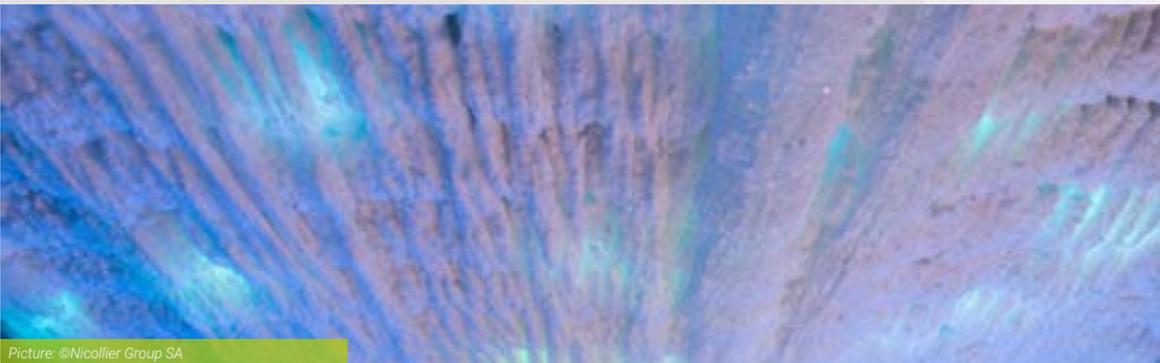
Item Name	Article No.
MSK IW1 Automatic Ice Layer	108G0001IK
MSK IW2 Automatic Ice Layer	108G0003IK
MSK IW3 Automatic Ice Layer	108G0004IK
MSK IW4 Automatic Ice Layer	108G0005IK
MSK IW5 Automatic Ice Layer	108G0006IK
MSK IW6 Automatic Ice Layer	108G0007IK

MSK IWX LED Light Points

The IWX LED Light Points package generates colored light points behind the ice layer. The package consists of 50/100 pieces of fiber optic cable with light points, which are installed in the IWX Ice Wall stainless steel panel, distributed over the entire area. The associated light generator generates an RGBW color spectrum and can be individually controlled via a remote control or via the optionally available IWX Touchscreen.



Item Name	Article No.
MSK IWX LED Light Points 50pcs.	108G0008IK
MSK IWX LED Light Points 100pcs.	108G0009IK



Picture: ©Nicollier Group SA

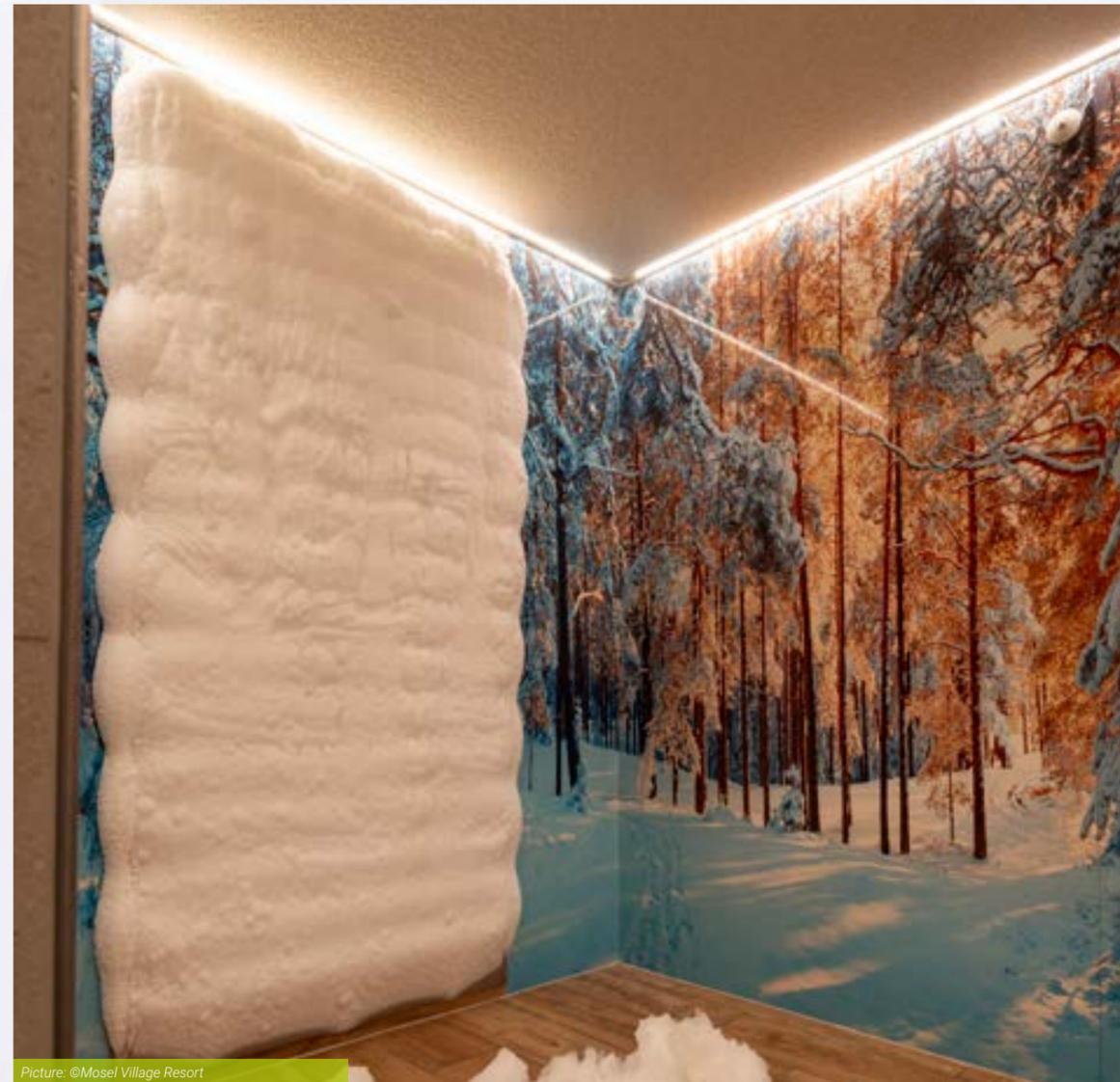
MSK IWX Touchscreen Control

The standard functions of the IWX Ice Wall are visually displayed via the IWX Touchscreen. In addition to the simplified control function, the following additional functions are available:



- On- / Off Function
- Automatic Ice Layer
- Language Selection
- Illumination Control
- System Diagnostics

Item Name	Article No.
MSK IWX Touchscreen 3,5"	95Z0002I
MSK IWX Touchscreen 7,0"	95Z0003I



Picture: ©Mosel Village Resort

IWX Air Cooled	IW1L	IW2L	IW3L	IW4L	IW5L	IW6L
Article No.:	108B0001	108B0002	108B0003	108B0004	108B0005	108B0006
Ice Wall Surface	1m ²	2m ²	3m ²	4m ²	5m ²	6m ²
Ice Wall Panel Segmentation	1	1	2	2	3	3
Ice Wall Panel Material	Stainless Steel					
Refrigerant	R449A R454C					
Water						
Water Supply Autom. Ice Layer	3/4"					
Power						
Power Supply	230V, 50Hz			400V, 50Hz		
Current Protection	C16A			3x C16A		
Power Input	max. 12,0A	max. 14,0A	max. 8,0A	max. 10,0A	max. 12,0A	max. 14,0A
Power Consumption	1,0kW	1,4kW	2,4kW	3,0kW	3,6kW	4,3kW
Dimensions						
Ice Wall Panel	Project Specific					
Cooling Machine	Project Specific					
Weight	Project Specific					
Ice Wall Panel Thickness	80 mm					

IWX Water Cooled	IW1W	IW2W	IW3W	IW4W	IW5W	IW6W
Article No.:	108B0001	108B0002	108B0003	108B0004	108B0005	108B0006
Ice Wall Surface	1m ²	2m ²	3m ²	4m ²	5m ²	6m ²
Ice Wall Panel Segmentation	1	1	2	2	3	3
Ice Wall Panel Material	Stainless Steel					
Refrigerant	R449A R454C					
Water						
Water Supply Autom. Ice Layer	3/4"					
Water Cooling IN	3/4"					
Water Cooling OUT	DN32					
Power						
Power Supply	230V, 50Hz			400V, 50Hz		
Current Protection	C16A			3x C16A		
Power Input	max. 12,0A	max. 14,0A	max. 8,0A	max. 10,0A	max. 12,0A	max. 14,0A
Power Consumption	1,0kW	1,4kW	2,4kW	3,0kW	3,6kW	4,3kW
Dimensions						
Ice Wall Panel	Project Specific					
Cooling Machine	Project Specific					
Weight	Project Specific					
Ice Wall Panel Thickness	80 mm					



Specifications are subject to change without notice. Illustrations may deviate from the standard equipment.

Accessories & Options	Article No.	IW1	IW2	IW3	IW4	IW5	IW6
Required Selection Cooling Machine							
Cooling Machine Indoor	108G888	●					
Cooling Machine Indoor	108G889		●				
Cooling Machine Indoor	108G7777			●	●		
Cooling Machine Indoor	108G6666					●	●
Cooling Machine Outdoor	108B0120LI	●	●				
Cooling Machine Outdoor	108B0400LI			●	●		
Cooling Machine Outdoor	108B0700LI					●	●
Cooling Machine Water	108B0120WI	●	●				
Cooling Machine Water	108B0400WI			●	●		
Cooling Machine Water	108B0700WI					●	●
Accessories							
Automatic Ice Layer	108G0001IK	●					
Automatic Ice Layer	108G0003IK		●				
Automatic Ice Layer	108G0004IK			●			
Automatic Ice Layer	108G0005IK				●		
Automatic Ice Layer	108G0006IK					●	
Automatic Ice Layer	108G0007IK						●
LED Light Points 50 pcs.	108G0008IK	●	●	●	●	●	●
LED Light Points 100 pcs.	108G0009IK			●	●	●	●
Fog Generator	108G1002IK	●	●				
Fog Generator	108G2002IK			●	●		
Fog Generator	108G3002IK					●	●
Touchscreen 3,5"	95Z0002I	●	●	●	●	●	●
Touchscreen 7,0"	95Z0003I	●	●	●	●	●	●



ICE FOUNTAIN

IWX-Series

The MSK ELX series offer complete ice machines for the use in wellness and Spa area. The flake ice slip through a downpipe in a bowl or a catch basin.

The fresh produced flake ice serves for cooling the skin surface or can be used for stimulating all body parts.



Picture: ©Nicollier Group SA

Flake Ice vs. Ice Cube and Crushed Ice

Flake Ice has a smaller particle size and therefore a higher and consistent cooling capacity compared to Ice Cubes or Crushed Ice. Flake ice is not sharp-edged like crushed ice and so on skin-friendly.

An optimal ice temperature of $-0,5^{\circ}\text{C}$ cleans, cools and refreshes the body without injury the skin by sharp-edged flake ice.

Flake ice is made in loose consistence and consistently large flakes as bulk solids. Even at bottom areas the flake ice will not freeze together.

Machine Cooling

MSK ELX Icemachines are equipped with an aircooled condensor with low thermal output by default and can be used in indoor spaces.

On request all types of the MSK ELX Series are available as watercooled configuration and offers possibility of heat recovering.

Installation

The ELX Icemachines are designed as Plug & Play system. On site you need to place the device and install necessary water supply, water drain and power supply. After that installation works you are ready to start the ELX Icemachine.

By ordering the ELX Icemachine as watercooled configuration furthermore you need to install water inlet and water outlet for cooling water.

Control

The control of the ELX Icemachine is simply driven by an ON-/Off Button. Cleaning of the device as well as draining of residual water takes place automatically.

Alternatively you can extend the ELX Icemachine configuration with a small or large touchscreen to get an extended range of functions. Among others you can adjust several timer functions and sensor technology for automatically operation.

The ELX Icemachines can get accessed by potential-free contact.



Icemachine ELX Aircooling	ELF195L	ELF300L	ELF600L
Article No.:	98B0195L	98B0300L	98B0600L
Ice Quantity	195 (kg/24h)	300 (kg/24h)	600 (kg/24h)
Water Supply	3/4"	3/4"	3/4"
Power Supply	230V, 50/60HZ	230V, 50/60HZ	230V, 50/60HZ
Power Input	max. 4,3A	max. 4,8A	max. 6,7A
Current Protection	C16 A	C16 A	C16 A
Operating Temperature	+5°C up to +45°C	+5°C up to +45°C	+5°C up to +45°C
Sound Pressure Level	51 dB(A)	56 dB(A)	56 dB(A)
Dimensions (L x W x H)	640 x 560 x 622 mm	640 x 560 x 622 mm	640 x 620 x 755 mm
Weight	approx. 60kg	approx. 60kg	approx. 110kg
Machine Cooling	Air	Air	Air

Icemachine ELX Watercooling	ELF195W	ELF300W	ELF600W
Article No.:	98B0195W	98B0300W	98B0600W
Ice Quantity	195 (kg/24h)	300 (kg/24h)	600 (kg/24h)
Water Supply	3/4"	3/4"	3/4"
Power Supply	230V, 50/60HZ	230V, 50/60HZ	230V, 50/60HZ
Power Input	max. 4,3A	max. 4,8A	max. 6,7A
Current Protection	C16 A	C16 A	C16 A
Operating Temperature	+5°C up to +45°C	+5°C up to +45°C	+5°C up to +45°C
Sound Pressure Level	51 dB(A)	56 dB(A)	56 dB(A)
Dimensions (L x W x H)	640 x 560 x 622 mm	640 x 560 x 622 mm	640 x 620 x 755 mm
Weight	approx 60 kg	approx 60 kg	approx 110 kg
Machine Cooling	Water	Water	Water

Accessories & Options	Article No.	ELF195L	ELF195W	ELF300L	ELF300W	ELF600L	ELF600W
Ice Pipe 0,5m	Auf Anfrage	●	●	●	●	●	●
Ice Pipe 1,0m	Auf Anfrage	●	●	●	●	●	●
Snow Height Sensor	98G00030I	●	●	●	●	●	●
Fog Generator	114G0006IK	●	●	●	●	●	●
LED RGB Illumination	114G0001IK	●	●	●	●	●	●
Water Treatment	114B0120WI	●	●	●	●	●	●
Touchscreen 3,5"	95Z0002I	●	●	●	●	●	●
Touchscreen 7,0"	95Z0003I	●	●	●	●	●	●

Specifications are subject to change without notice. Illustrations may deviate from the standard equipment.

A modern indoor cold plunge pool. The pool is rectangular with a mosaic tile deck and a stone wall background. The water is clear and blue. A stainless steel handrail is visible on the left side of the pool. The ceiling is white with recessed lighting. The overall atmosphere is clean and contemporary.

COLD POOL

HPX-Series

At temperatures between +4°C up to +15°C the Plunge Pool provides an optimal cooling down after heat treatments. By dipping into the water the body will be bathed completely and steady.

The body will get relaxed by cooling down in the Plunge Pool and due to the contraction of blood vessels inside the skin the blood flow of the internal organs will be improved.

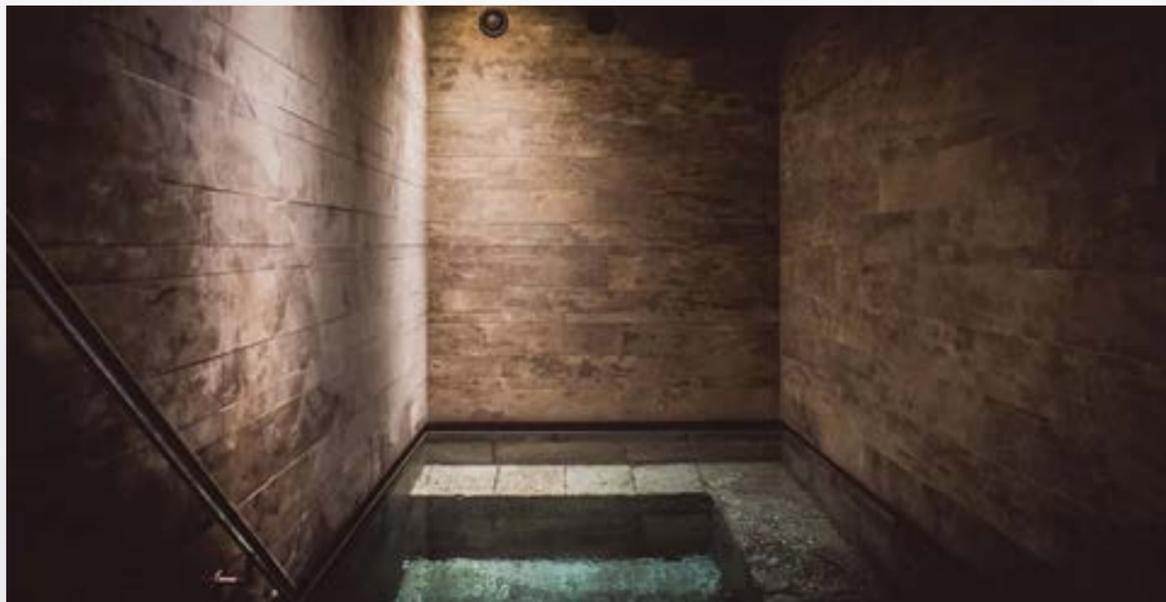
The Plunge Pool can be made from different materials like for example stainless steel, concrete or synthetic materials. Cooling down the Plunge Pool water temperature is driven by HPX Poolchillers.



PRODUCT HIGHLIGHTS

- ✓ Consistent Water Temperature
- ✓ High Energy efficiency through Heat Recovery
- ✓ Inverter Technology
- ✓ Pool-Control

- MSK HPX TWW Chiller Drinking Water
- MSK HPX WW Chiller Cold and Warm
- MSK HPX LW Chiller Aircooling



Cooling down the Plunge Pool water temperature and tempering is driven by HPX Poolchillers which are available in different power levels following the water volume. HPX Poolchillers are available as aircooled or watercooled configuration and can be customized by different optional features.

The latest generation of HPX Poolchillers enables quick tempering of the Plunge Pool water and can generate also warm water during the cooling mode. Furthermore a cost effective operation with low energy consumption and low sound level is provided.

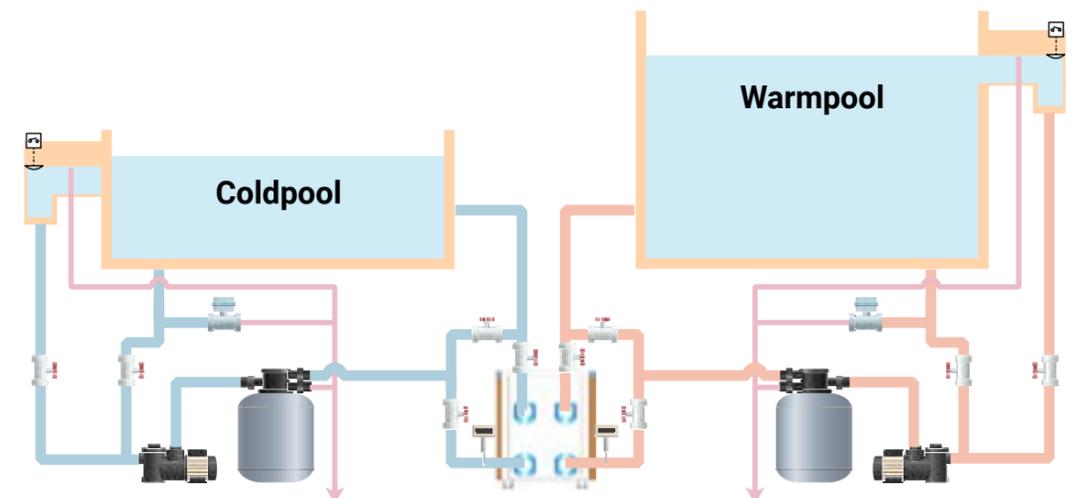
Because of using titanium heat exchangers the HPX Poolchillers can operate with pool water which get disinfected by salt electrolysis.

Due to the use of latest refrigerant HPX Poolchillers are future-proof. Thereby the HPX Poolchillers are environmentally friendly and the availability of refrigerant is ensured long-ranging.

By using of the cooling and heating function of the HPX Poolchillers at the same time the energy efficiency will be doubled as conventional heat pumps using only cooling or heating function which means that just one energy source is used. Thereby a cold pool and warm pool can be operated at the same time by using HPX WW Poolchillers. The MSK Pool Control enables the control of the pools and its supplies via touchscreen.

HPXWW	HP5134WW	HP8560WW	HPXLW	HP5134LW	HP8560LW
Article No.:	75B5000IW	75B8500IW	Article No.:	75B5000IL	75B8500IL
Ambient Temperature	Pool Chiller Installation Area +5°C up to +45°C		Ambient Temperature	Pool Chiller Installation Area +5°C up to +45°C	
Refrigerant	Project Specific		Refrigerant	R32	
Coefficient of Performance (COP)	7,39	8,4	Coefficient of Performance (COP=)	6,1	6
Pool Chiller Performance			Pool Chiller Performance		
Cooling Capacity	3,4kW	6,0kW	Cooling Capacity	3,4kW	6,0kW
Heating Capacity	5,1kW	8,0kW	Temperature Cold Water Circuit	+4,5°C up to +16°C	
Temperature Cold Water Circuit	+4,5°C up to +16°C		Power		
Temperature Warm Water Circuit	+10°C up to +45°C		Power Supply	230V, 50Hz	
Power			Current Protection	C16A	
Power Supply	400V, 50Hz		Power Input	max. 5,2A	max. 8,2A
Current Protection	3xC16A		Power Consumption	max. 1,0kW	max. 1,6kW
Power Input	max. 2,0A	max. 3,05A	Water		
Power Consumption	max. 1,2kW	max. 1,8kW	Water Connection Cold Water	Ø 32/38mm	
Water			Pump Performance	2.500l/h - 6.000l/h	5.000l/h - 14.000l/h
Water Connection Cold Water	2x DN50		Water Quality	Drinking Water Pool Water	
Water Connection Warm Water	2x DN50		Dimensions (L x W x H)		
Pump Performance	2.500l/h - 6.000l/h	5.000l/h - 14.000l/h	Pool-Chiller	770 x 265 x 515mm	990 x 320 x 540mm
Water Quality	Drinking Water Pool Water		Weight		
Dimensions (L x W x H)			Pool-Chiller	approx. 45kg	approx. 48kg
Pool Chiller	800 x 540 x 660mm				
Weight					
Pool Chiller	approx. 45kg	approx. 48kg			

HPXWW Connection Diagram



HPXTWW	HP05TWW	HP10TWW	HP20TWW
Article No.:	75B0500TWW	75B1000TWW	75B2000TWW
Ambient Temperature	Machine +5°C bis +45°C		
Refrigerant	Project Specific		R513A
COP	2,16	2,52	2,90
Performance			
Cooling Capacity	0,5kW	1,0kW	2,0kW
Electricity			
Power Connection	230V, 50Hz		
Current Protection	C16A		
Power Consumption (Ampere)	max. 2,0A	max. 3,05A	max. 4,70A
Power Consumption (kW)	max. 0,65kW	max. 0,65kW	max. 1,1kW
Wasseanschlüsse			
Water Connection Cooling Circuit	3/4"		
Water Connection Machine Cooling	3/4"		
Water Ppressure	2 - 4bar		
Water Quality	Drinking Water		
Amount of Water	approx. 3l/h	approx. 5l/h	approx. 6l/h
Dimensions (L x W x H)			
Pool Chiller	610 x 340 x 560 mm		
Weight			
Pool Chiller	approx. 35kg	approx. 39kg	approx. 41kg

Accessories & Optionals	Article No.	HP5134WW	HP85604WW	HP5134LW	HP8560LW	HPXTWW
Accessories						
Damping Socket	855903	●	●	●	●	●
Wall Console	855923	●	●	●	●	●
Fog Generator	114G0006IK	●	●	●	●	●
Water Valves and Floats	75G0001IK	●	●	●	●	●
Pump System	On Request	●	●	●	●	●
Filter System	On Request	●	●	●	●	●
Pool Control	75BPC	●	●			
Water Treatment	114G0002IK	●	●	●	●	●
Touchscreen 3,5"	95Z0002I	●	●			●
Touchscreen 7,0"	95Z0003I	●	●			●







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