

Play value

Screw-like and spiralling movements naturally occur in nature. It takes practice to recognize these complex current forms, for example in a whirlpool. Those who turn the hand-crank at this play station experience two interrelated forces and can experience the principle behind a vortex. With increasing acceleration the impeller creates a whirlpool which can be very clearly seen in the water filled cylinder. While a vortex funnel forms downwards, the water flowing in the opposite direction creates a counter vortex in the cylinder. The turning motion from top to bottom causes a sucking effect which draws the water upwards. The water mass which forms a vortex funnel rotates in a spiralling shape in two directions creating its own counter movement.

Recommended for

- School children
- Young people
- Adults
- Waterplay areas without supervision
- Swimming pools without supervision, such as outdoor pools, adventure pools or similar

Barrier-free

- Independent play



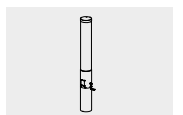
Photo © Ayumi Nakanishi



Photo © Daniel Perales

Vandalism	slightly vulnerable
Supervision	not necessary
Explanation Board	not necessary
Installation	indoors and outdoors
Safety check (DIN EN 1176)	not necessary
Installation in concrete	possible

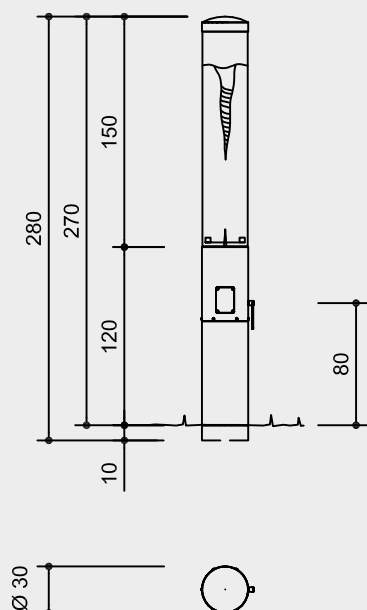
Whirlpool Column Whirlpool Column with Lighting graubner Play Stations for Developing the Senses



10.17000 / 10.17500

Order No. 10.17000
Whirlpool Column

Safety distance →
Device dimensions —●—
Functional distance —|—



Scale 1:50

Technical information

Large thick-walled whirlpool cylinder made of extremely impact-resistant acrylic glass

Ground anchor

All parts used for anchoring to the ground are made of hot-dip galvanised steel or stainless steel



Roller bearings

High-quality roller bearings made of chrome steel or stainless steel for rotating elements, easy to maintain and exchange, sealed



For more detailed explanation of the quality characteristics see price list.

Special algae-free glycol mixture, frostproof to approx. -25° C

Support column made of stainless steel

Low-maintenance gear with freewheel turning handle against anti-kickback device

Order No. 10.17500

Whirlpool Column with Lighting

Technical details as described before, but in addition with internal LED lighting at the base of the whirlpool cylinder, power generation by dynamo, illumination only during rotational movement

Components

- 1 Whirlpool column
- 3 Canisters with 20 litres glycol mixture each

Trademark

30 2005 500 000 Germany
40-0682207 South Korea

Explanation board on request

Installation information

Recommended space
circle diameter 3.00 m

Foundations
1 item 50 x 50 x 60 cm
Excavation depth 70 cm

Attention:

**Exact measurements may vary;
for all installation dimensions refer
to current assembly instructions.**
Technical changes reserved.

Dimensions

(small deviations possible)

Height	2.70 m
Diameter	0.30 m
Weight	75 kg
incl. water and packaging material	210 kg



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