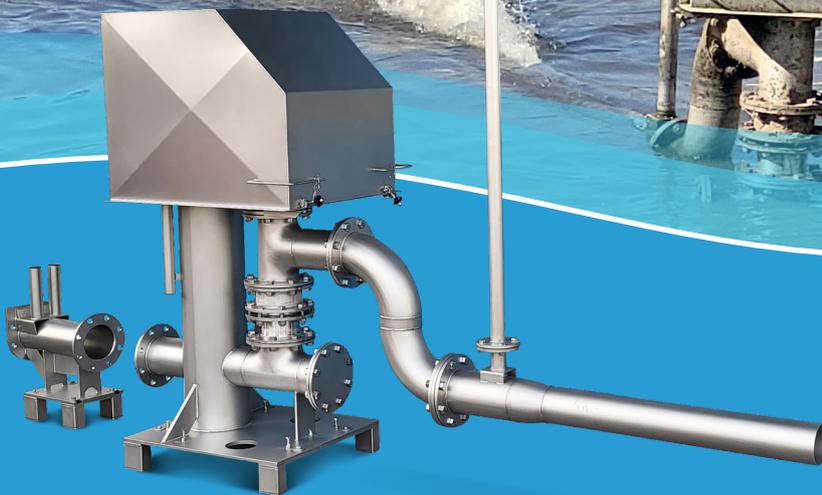


# SWIVEL JET CLEANER SSR



**Fully submersible swivel jet cleaner with boulders filter and hinged, gas-tight stainless steel cover.**

Fully automatic cleaning and flow generation in stormwater basins to ensure the long-term operation of the plant.

**Your professional partner in environmental technology and sewer management**





## APPLICATIONS AND BENEFITS

- ✓ Fully automatic cleaning and flow generation in stormwater basins to ensure long-term operation of the plant
- ✓ The generated flow effectively prevents the settling of non-floating solids
- ✓ Equal dirt discharge over the entire emptying phase
- ✓ Effective cleaning of the basin floor, the basin walls and any pillars
- ✓ Minimization of odor and putrefaction in impounded wastewater through oxygen input
- ✓ Also ideally suited as a retrofit for already existing basins

## FUNCTIONAL PRINCIPLE

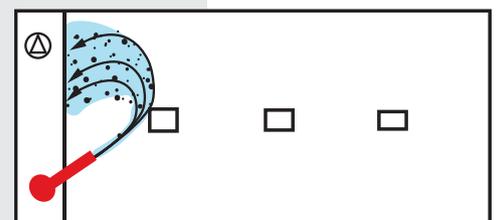
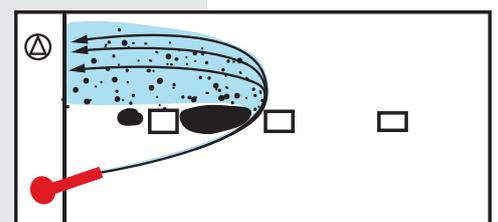
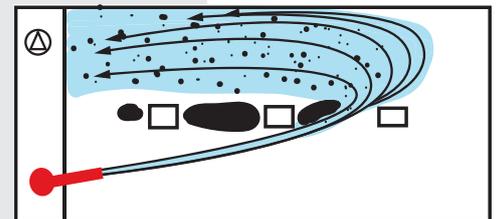
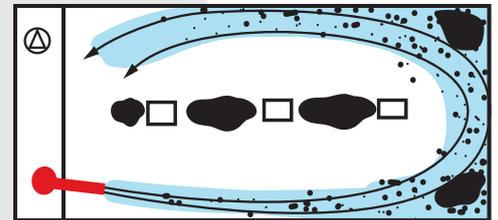
The swivel jet cleaners work on the principle of the water jet pump. A pump delivers a volume flow into the jet pipe. The air is added to the water in the area of the air intake pipe and is emitted horizontally from the jet pipe at high speed. This creates a flow which keeps the particles contained in the medium and prevents them from settling on the bottom. The suspended solids are reliably flushed out of the basin during the emptying phase.

Due to the supplied air, the swivel jet cleaners also have an aeration function. This prevents unpleasant odors and the formation of rot.

## WORKING METHOD

During the accumulation phase of the basin, the swivel jet cleaners are in the standby mode. When the basin has filled up the cleaners start the aeration. The basin is aerated by means of an intermittent jet with the jet pipe pointing rigidly in one direction. The actual cleaning process starts in the emptying phase of the rain basin. The jet pipe swivels during this stage and stops at defined stopping points for a certain period of time (interval jet). The contents of the basin are thoroughly mixed in this process.

Final cleaning begins at a residual water level (e.g. 1 m). The bottom of the basin, the walls of the basin and any pillars are cleaned by the concentrated cleaning jet. Suspended solids are removed from the basin during the emptying phase. All processes can be controlled with the KS-SSR 600 compact control unit. This ensures a fully automatic and efficient cleaning process.



### SIZE

DIA 150  
(DIA 200 on request)

### MATERIAL

Stainless steel A2-1.4301  
(A4-1.4571 on request)

### SWIVEL RANGE

Stepless up to 280° by  
adjustable limit switches

### PUMP

Manufacturer-independent,  
flange-mounted or offset mounted

## HIGHLIGHTS

### GAS-TIGHT STAINLESS STEEL COVER - FOLDABLE

Due to the special design, an air bubble is formed inside the housing. As a result, the swivel jet cleaner is fully floodable, as the internally installed swivel motor does not come into contact with liquids and is thus reliably protected against contamination. This guarantees full power development as well as low-maintenance and long-lasting use.

### PUMP BASE 180°

Manufacturer-independent, for flange-mounting or offset mounting.

### STAINLESS STEEL SWIVEL JOINT

The flanged and insulated stainless steel swivel joint can be manually adjusted. Special high-performance Teflon seal packings ensure process-reliable and low-wear rotary movements.

### BOULDERS FILTER

This serves as a pre-filter for boulders and solids and reduces clogging of the injector nozzle. Furthermore, the wear of the flow-conducting components is reduced to a minimum.

### MOTOR

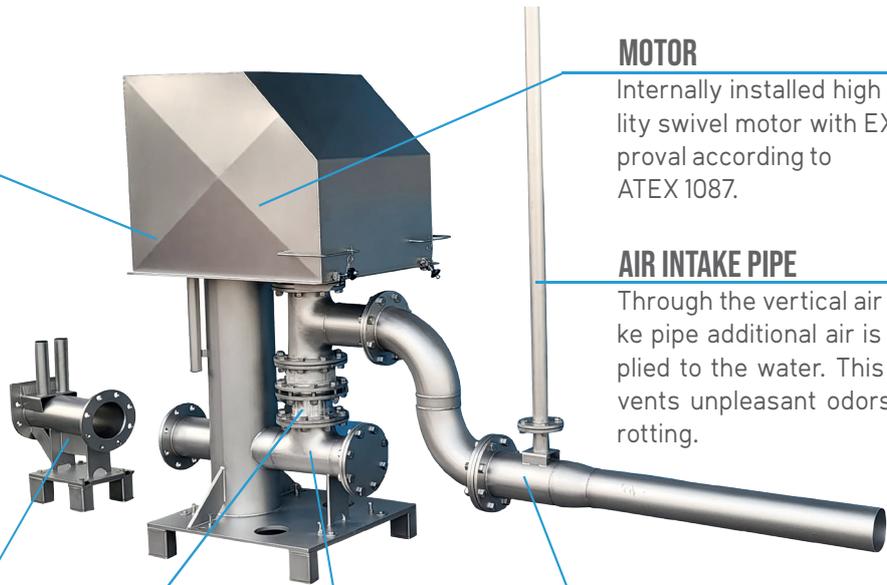
Internally installed high quality swivel motor with EX approval according to ATEX 1087.

### AIR INTAKE PIPE

Through the vertical air intake pipe additional air is supplied to the water. This prevents unpleasant odors and rotting.

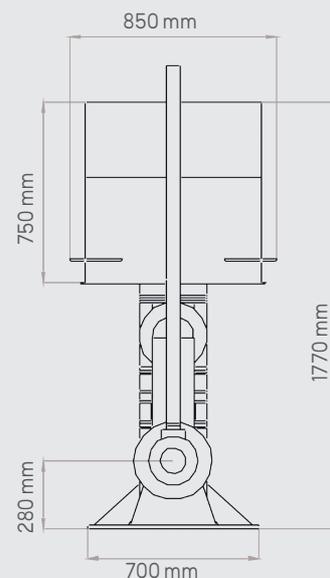
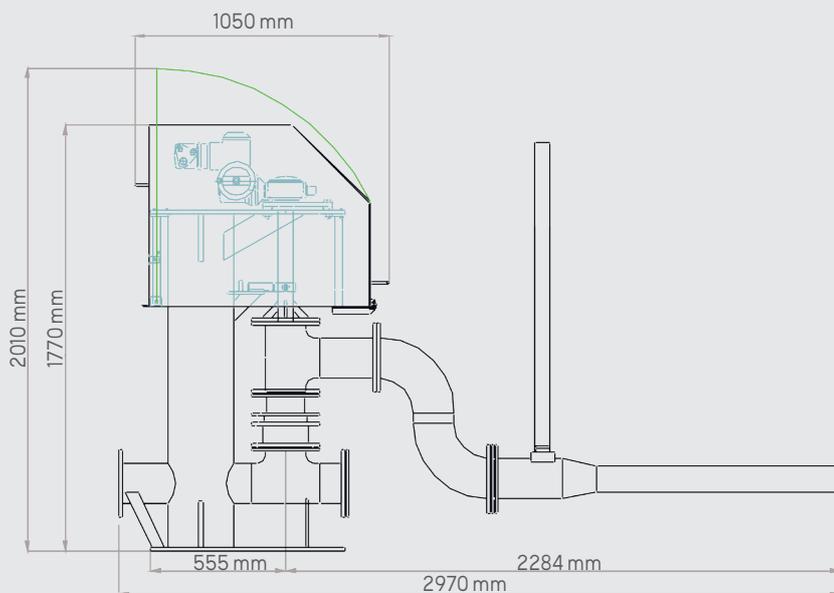
### JET PIPE - SWIVEL RANGE UP TO 280°

A swivel range of up to 280° can be realized by means of adjustable limit switches. Position feedback analog via a control signal 4-20 mA/0-10 V.



## DIMENSIONS

Due to the compact design, an installation opening of 800 x 800 mm is sufficient (partially dismantled).



### CIRCULATION POWER

Up to 300 m<sup>3</sup>/h

### RATED POWER

4,9 – 22 kW

### CONTROL UNIT

Compact control unit KS-SSR 600, available as accessory



## APPLICATION EXAMPLES

The following table lists arrangement options and examples of use for swivel jet cleaners proven in practice. The required pump capacities depend on the size of the basin.

TOP VIEW	SECTIONAL DRAWING	BOTTOM SLOPE	TOP VIEW	SECTIONAL DRAWING	BOTTOM SLOPE
		1%			3%
		1%			4%
		3%			3%
		5%			4%
		1%			4%
					4%

➔ Inlet      ☒ Emtying

The illustrations show an overview of frequent applications. We will be happy to advise you individually on your pool constellation.