

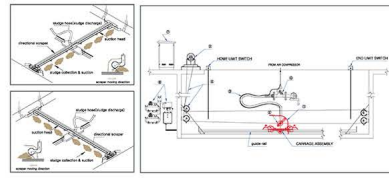
# Catalyzing Innovations and Digitization for Safe, Sustainable, Resilient, and Inclusive Water Management

LAUNCH OF E-MARKETPLACE AND PUBLICATIONS

15-19 March 2021



귀사의 수처리를  
최상의 기술로 도와드리는 기업



### Sludge Collector & Discharger

Installed at the lower part of a sediment basin, the sludge collector moves in two directions to collect and discharge sludge with a built-in scraper which changes its form based on the direction of its movement for a more effective collection and discharge of sludge.



### Control Panel

It is a fully automatic control panel with PLC and built-in control units for operation. The control panel is designed to control speed and direction of movement in charge mode.



## The Best Technologies and Services on Water Treatment

Name of Organization	<b>Dongyang Water Technologies Co., Ltd.</b>
Location	<b>Republic of Korea</b>
Year Registered	<b>2002</b>



## Technology Profile

Dong Yang Water Technologies Co., Ltd. has specialized design, manufacturing, installation and maintenance for water and waste-water treatment facilities. We made steady effort to manufacture and supply the most economical and efficient water treatment equipment. We have been assessed and complies with quality assurance requirements of ISO 9001 and 14001.

The SCRAP-VAC (Suction type Sludge Collector) is an innovative device with a structure that sucks sludge during operation (forward & backward) and discharges it through a hose (such as a vacuum cleaner) without the need for a sludge discharge hopper.

### Improvement of Existing sludge collector demerit

- Sludge bridge and rabbit hole phenomenon.
- Collector Driven Load phenomenon by sludge jamming.
- Aggravation of treated water quality by sludge decomposition and re-suspension phenomenon

### Scraper for sludge collection

- Scraper application to 900 bending shape
- Direction change of scraper depending on movement direction(900 switch)

### Sludge discharge facility and method

- Discharge of sludge by using head(water level) difference based siphon or self priming pump
- Sludge collector and discharger are built in one system.

### Sludge removal capacity

- Sludge collected efficiently based on process operation.
- Automatic control of operating speed and sludge discharge.
- Sludge in front and back side of scraper is discharged efficiently from sludge suction pipe.

### Advantages of application

- Sludge discharge hopper & valve not required → Reduction of initial project cost
- Existing type of sludge collector applied by substitute facility → Improvement of moisture content and effluence problem
- Facility miniaturization by small collection, small discharge method → Increase of price competitiveness through cost reduction
- Reduction of subsequent process load by control of effluence quantity → Efficiency increase of concentration process and dehydration process

To know more about our Smart Water Technology:

[SCRAP - VAC The Suction-Type Sludge Collector](#)

[Scrap Vac Suction type sludge collector Summary Description](#)

The recording of interactive session will be uploaded here.

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