別冊

民間企業の技術紹介資料一覧

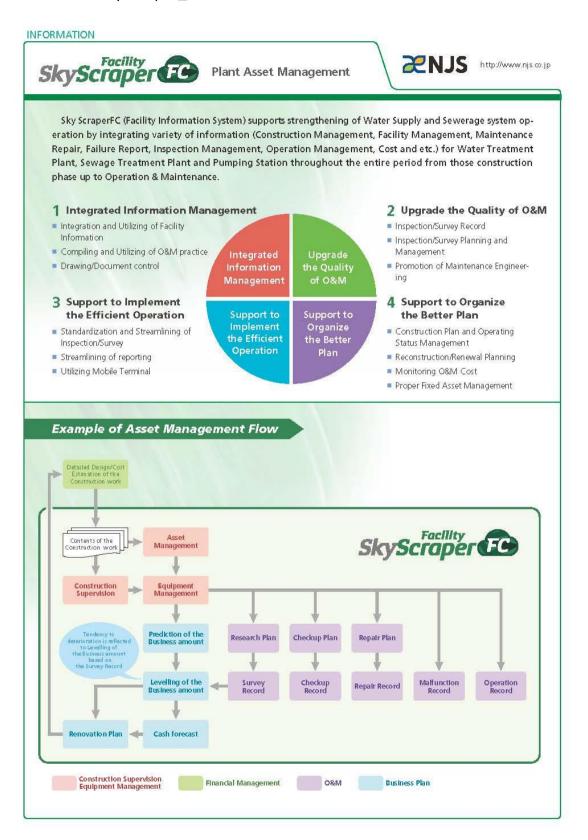
民間企業の技術紹介資料一覧

No.	会社名	ドキュメント名(英語)	内容	頁番号
1	株式会社 NJS	Cloud Service SkyScra per_Fcen	プラントアセットマネジメン トのシステムの紹介	2,3
2-1		STOPPER PANEL	不断水工法のための管路断水 器の紹介	4
2-2	大成機工株式会社	TAI-FLEX	耐震継手(ダクタイル鋳鉄製 ボール型伸縮可とう管)の紹 介	5
3	株式会社トーケミ	FILTER MEDIA	ベトナムの工場での水道用ろ 材アンスラサイト等の水処理 関連製品の紹介	6,7
4	東芝インフラシステ ムズ株式会社	Toshiba's ozone genera tor TGOGS	オゾン発生装置の紹介	8,9
5	日本原料株式会社	SIPHON TANK Filtratio n Device Features Inte rnationally Patented SI PHON WASHING SYST EM	ろ過材洗浄システムを備えた、ろ過材交換工事不要のろ 過装置の紹介	10,11
6	フジテコム株式会社	Water Leak Detection Devices FUJI TECOM.INC	漏水検出関連機器の紹介 会社紹介	12,13

[※]五十音順

1 株式会社 NJS

Cloud Service SkyScraper_Fcen



Facility operation

- Plant Asset Management -

When you need information

Easy to access the standardized data of facilities and assets, and O&M, drawing and specification, then Easy to manage the integrated operation efficiently

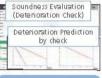


Ledgermanagement Drawing Management

Maintain the better operation and risk management

Management of the systematic and time series O&M information Easy to realize better assets management. Finally assurance of the quality and long life of the assets.





Information Management of Site Inspection

Support to Implement the Efficient Operation

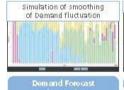
Improvement of the Operation Efficiency

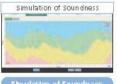
Easy to access the data from the general plan. Improvement of site inspection with mobile tablet. With site information the renewal of the system for the daily operation.



Check of Reliability, Safety and Cost

With the effective utilization of the information of O&M and renovation the minimize the cost of renovation, and maximize the value of the assets, then better integrated operation plan





Basic features

Management of

- Construction Work
- Management of Facility
- Management of Drawing and Specification Management of Fixed
- Assets
- Search of Inventories Search of layout plan

Red color is Optional function

O&M Management

- Management of Maintenance Renair Management of
- Malfunction Management of Daily
- Management of Utility
- Stock management

Upgrade of O&M

- Management of Site Inspection
- Check of Current Assets(-Soundness Evaluation)
- Management of Operation Inspection Check Sheet for

Support to long term planning

- Construction Plan
- Regular Mainte nance Repair
- Plan of Survey
- Plan of Site Inspection Business Plan

Puture Demand **Forecast**

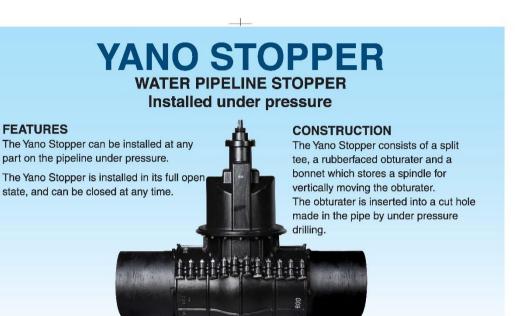
Common Features

- Login Function
- Authorization Setting Master Maintenance
- Form Output
- Data Backup

NJS Co., Ltd.

2-1 大成機工株式会社

STOPPER PANEL



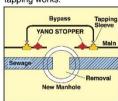
EXAMPLES OF PRACTICAL APPLICATION

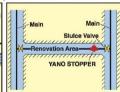
Installation for removal of the main

To remove the existing main in connection with sewage construction, together with tapping works.

Installation into the pipe renovation area

When the sluice valves are out of order or if there is no valve.



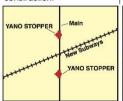


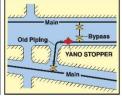
Installation for precautionary measure

As an urgent valve, in connection with underground construction.

Installation for removal of old piping

To remove the existing old piping, after bypass piping.







Available:DN75-600mm

KEEP THE LIFE LINE, LINK THE NEXT TAISEI KIKO CO., LTD. www.taiseikiko.com



2-2 大成機工株式会社

TAI-FLEX





Inspecting water tightness of the world largest TAI-FLEX DN 1800mm of subsiding

- *Examine earthquake-proof with the world largest liquefaction testing machine.
- *Achieved retaining force more than 3DkN for all size.
- *Non bolt and nut, light weighted, compact.
- *Sufficient bending angle and subsidence.
- *Rubber sealing with excellent water tightness.
- *Correspond simultaneously to elasticity, bending, torsion.





FILTER MEDIA



TOHKEMY

Filter media

Anthracite from Vietnam Factory





For SS removal

Filter Sand

Garnet

Ferrolite

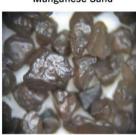
For iron and manganese removal

Manganese Sand









Fiber and Membrane Filter Media

Actifiber

SMF cassete type

SMF naked type

SMF vessel type









TOHKEMY CORPORATION

TOHKEMY Water Quality Remote Control System

TOHKEMY water quality remote control system will help to solve the following problems:

- · An [excessive injection] or a [insufficient injection] due to changes in raw water quality.
- · Occupying human power.
- · Human error during measurement.
- · etc.

Features

AUTOMATIC

Concentration will be controlled automatically after setting a target value.

24H

24 hours continuous measurement.

RELIABLE

Less human error during measurement.







Controlled objects

ALARM

Alarm by an e-mail when a anomaly occurs.

Continuously record the concentration, also calibration and alarm information.

REMOTE

Remote monitoring and target value setting is available by a tablet, PC, or smartphone.





Applications

This system can be applied to water quality control in the following situation.

- · Water works
- · Industrial water
- · Domestic water







TOHKEMY CORPORATION

https://www.tohkemy.co.jp/english/

東芝インフラシステムズ株式会社

Toshiba's ozone generator TGOGS

Toshiba's ozone generator TGOGS™

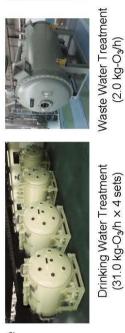


Overview

experience, we have accumulated extensive knowhow regarding large-scale Toshiba first launched an ozone generator in 1976, and we have about 40 years' experience with water treatment systems. Based on this long-term ozone generators. We have contributed to improving the drinking water quality in major metropolitan areas (e.g. Tokyo, Osaka, Fukuoka).







Drinking Water Treatment (31.0 kg-O₃/h × 4 sets)



(1.0 kg-O₃/h)

Industrial Plant Treatment

0 © 2021 Toshiba Infrastructure Systems and Solutions Corporation

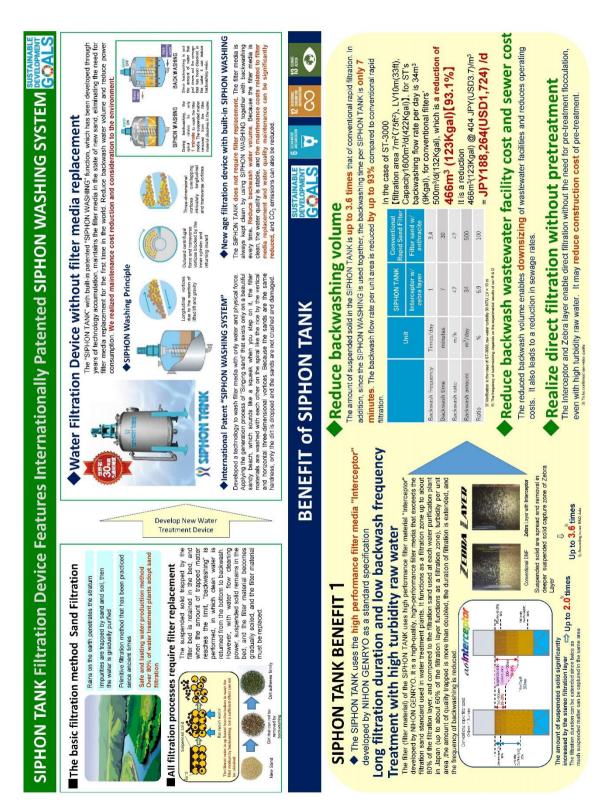
Features of Toshiba's Ozone Generator



© 2021 Toshiba Infrastructure Systems and Solutions Corporation

5 日本原料株式会社

SIPHON TANK Filtration Device Features Internationally Patented SIPHON WASHING SYSTEM



Highly Portable, Maintenance-Free Filtration Device Mobile SIPHON TANK ALL-IN-ONE Unit

SIPHON TANK BENEFIT 2

Used in combination with SIPHON WASHING during backwashing

Filter media can keep it clean

(No need to replace filter media, costs for replacement work can be reduced)



SIPHON TANK keeps the filter media in the same condition as new sand, no need to replace filter media it can also reduce the cost of filter replacement work and the cost of musical waste of filter media that is drity. Because the filter media is clean, the treated water quality is sable, the time required for facility maintenance can be saved, and maintenance costs can be reduced.

Maintenance costs can be significantly reduced No need to replace the filter media and the stainless steel main body significantly reduced the maintenance cost of the main body

30 years maintenance cost

Capex initial sost (USD)	420,000			Ī						Ī		_			
Capox Materance(USD)	- 2-	19.000	12,000	10,000	13,000	13,000	12,000	13,000	12.000	13,000	13,000	10,000	13,000	13,000	13,000
ragationed	-6	37.000	27,000	37,000	97,000	37.000	27.000	00076	37.000	00070	37.000	37,000	37,000	37,000	00076
lata(UKD)	420,000	sonac.	000004	SUUDO	adulus	pod'as	ppnaa	000000	00000	30.000	porna	מיממח	500'09	20,000	90,000
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&3000 SSIPsint	0		2				٠			0	10		Paneur	52	30
Capax in tal sost(USD)	COOME (1000								100,000		
Depart Median ment (US/D)	-6	24,000	24.00C	24.0DD	24,000	24,000	24.000	24,000	24.000	24.00D	24,000	24,000	24,000	94,000	24,000
CONTRACTOR	-6-	28,000	28.000	73 000	78.000	78,000	22.000	78,000	72,000	78.000	78,000	78 000	78,000	78.000	78,000
TotalOSD	Socious .	102000	122000	102000	102.000	102,000	152 000	102,000	UC0'2U1	102000	102,000,	102 000	210,000	102 000	102,000
Cumulative total(USD)		411,000	513.000	815000	308,505 411,305 \$13,000 \$15,000 717,050	615,000	821.000	1.023.000	1,125,000 1,227,000	1.227.000	1325,030	1.338,000	2.457,000	2,987,000	3,477,000

Greenhouse gas emissions during backwashing Save Power consumption Short backwash time with SIPHON WASHING

We will reduce CO2 emissions from water and sewage to reduce water and sewage usage. It also reduces the operating time of the backwast purp, which construines the most electricity in the water treatment system, and reduces the CO2 emissions from electricity. SIP-ION TANK is an environmentally friendly filtration device.

CO₂ emissions per day are reduced by 53.1kg-19.6kg = 33.5kg. Annual reduction of 10,060 kg 10 t-CO₂

Reduce backwashing volume and reduce power consumption

Eco-Friendly Equipment

SIPHON TANK BENEFIT 3

0001

In a short time, the washing wastewater turbidity (dirt degree) decreases, the time for backwashing process can be shortened, and the water volume can also be reduced. Furthermore, this process, which uses a large-capacity pump, is shortened and contributes to the reduction of power consumption and the reduction

10000

Conventional filtration devices require a large amount of backwash water. However, SIPHON TANK dissolves the dirt of filter media in water beforehand with its own washing and washing, and the backwash water is used to rinse out the sewage in the filter tank.

	factor	SIPHON LANK	NK	Convertional	onal	Filter modie
Portable water	200(g-009/m3)	757	5,2302	7tlm²	14,0002	Captine weight
Sewerage water	437(c-co ₂ /m ³)	75~3	11,352g	70m ³	30,5902,	Backwas - frequency
Backwesh pump		22kWx+min	1.280g	1.280g 22kWs20min 3.600g	3,600,8	Backwas: water
						Net treated water
Drainage pump	(日/代)(20),67	11sWx18min	1,7.02	1,7.0g Tawessmin 4,950g	4.9502	Durface of Mart Leave and security
SIPHOM protect		Historia	300	-	4	hallo of free dealed water
						Electricity consumption
Sum		19,6kg		53.1kg	nt	Chemical consumntion

19m⁵/d

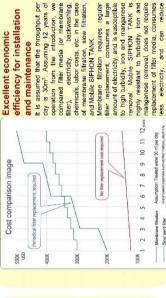
Charles Take Sync Strate Inserts A Strate Inserts and Strategy amount of electricity and chemicals used per unit water can be reduced by up to 40% and 34%.

SIPHON TANK BENEFIT 5

Movable filtration device Mobile SIPHON TANK

SIPHON TANK BENEFIT 4

Mobile SIPHON TANK applies to sustainable drinking water supply and waste water therefore. This unit is designed compact size and united with SIPHON TANK piping valves, themical dosting unit and control panel. So that it is easy to transport, assemble norsic and operate simply. Since this is a movable unit, it provides drinking water anywhere and anytime incase emergency like disaster relief it is needed and set as anywhere and anytime incase emergency like disaster relief it is needed and set as anywhere and anytime incase emergency like disaster relief it is needed and set as an issualled moration to the province of the set of t



backwashing





emical dosing device Piping, valve, meter

Raw water

SIPHON Cartridge

Truck mounted type

ALL-IN-ONE Unit

Filtration tank (SIPHON TANK)

Control panel

OWFINE MOHIM (A)

フジテコム株式会社

Water Leak Detection Devices

FUJI TECOM.INC



Contact

Domestic Offices and Service Network

Mail: overseas_sales@fujitecom.co.jp Web: https://www.fujitecom.com/

- Headquarter & Overseas Sales Group:
- Chiyoda-ku, Tokyo Technical Development & Training Center.

1969 Established subsidiary publisher, "ROSUI BOSHI SHIRYOSHA Co., Ltd.",

the 1st technical journal

1972 Established subsidiary survey contractor and consultant, FUJI ROSUI

CHOSA Co., Ltd

1979 Founded First Survey Company in Japan (currently as FUII

1971 Established Technical Development & Training Center at Niiza

Saitama

8 Regional Sales Offices Niiza, Saitama



Norldwide Sales and Service Network

More than 40 distributors all over the world

2005 Completion of Technology and Development Center and renewal of

2005 Launched Digital Leak Detector FSB-8D

Training Course

- 2007 Launched Digital Noise Reduction Water Leak Detector DNR-18
- 2012 Launched Leak Noise Logging System LNL-1
- 2018 Launched Pipeline & Cable Locator PL-G
- 2020 Launched Digital Leak Noise Correlator LC-5000
- 2021 Launched Water Leak Detector DNR-18

FUJI TECOM INC.

Water Leak Detection Devices

FUJI TECOM INC.

Corporate History

~Over 60 Years Contribution to Water Industry

1958 Founded as FUJI SANGYO INC.

1994 Launched Marker Locating System

1999 Obtained ISO9001 certificate

1985 Renamed as FUJI TECOM INC.

SUBSURFACE INFORMATION, LTD.)

Water Leak Detection Devices FUJI TECOM INC.

Digital Quatro Correlator

LC-5000

be performed by 4 pre-amplifiers. correlation of up to 6 routes can World's first!! simultaneous

check water leaks after collecting By logger function, possible to the equipment at a later date. 4 sensor correlation can

accuracy is improved and more approach a leak point in more than 2 ways and detection stable

Contact

Mail: overseas_sales@fujitecom.co.jp Web: https://www.fujitecom.com/



Water Leak Detector

LDR-20

A leak detector with significantly reduce the work load for a long · The small and light design improved sensitivity

connected to either left or right. By adopting universal design, pick-up sensor can be time.

Data display and report output available with an attached application.

Digital Sound Detector: FSB-8D Noise Level Analyzer: FSJ-1



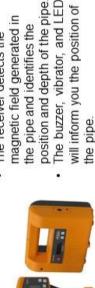
comparing the sound with An electronic listening weak leak sound and discovers the leak by stick that captures a

unit, automatic judgment By installing a analyzing judgment results are the numerical value. and recording of



Pipeline & Cable Locator

PL-G



position and depth of the pipe. The buzzer, vibrator, and LED magnetic field generated in the pipe and identifies the The receiver detects the