



Technology Licensor
MEURER RESEARCH, INC.
Golden CO USA
Asia-Pacific Sales Representative

ADVANCED WATER AND WASTEWATER TREATMENT SYSTEM

MRI's Hoseless Cable-Vac features a floor-hugging, telescoping sludge removal pipe and a simple, powerful cable-winch movement. Durable enough for continuous operation, treatment plants generally run the Hoseless Cable-Vac from one to several times a day. Offering a highly scaleable design, the MRI Hoseless Cable-vac is available in flow rates from 100~8000 LPM.



Efficient Choice for Maximum Solid Removal

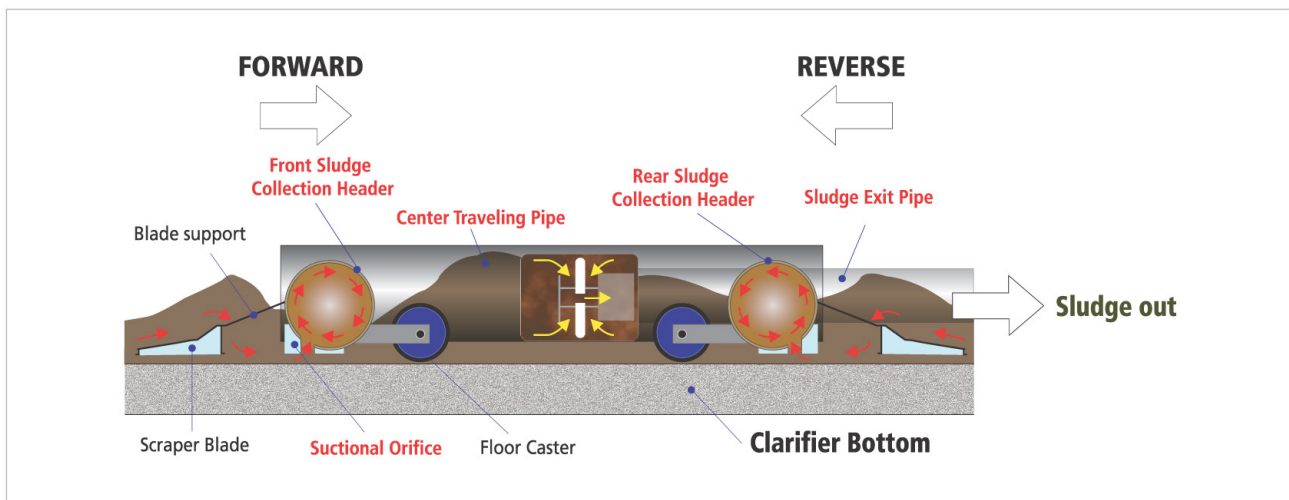
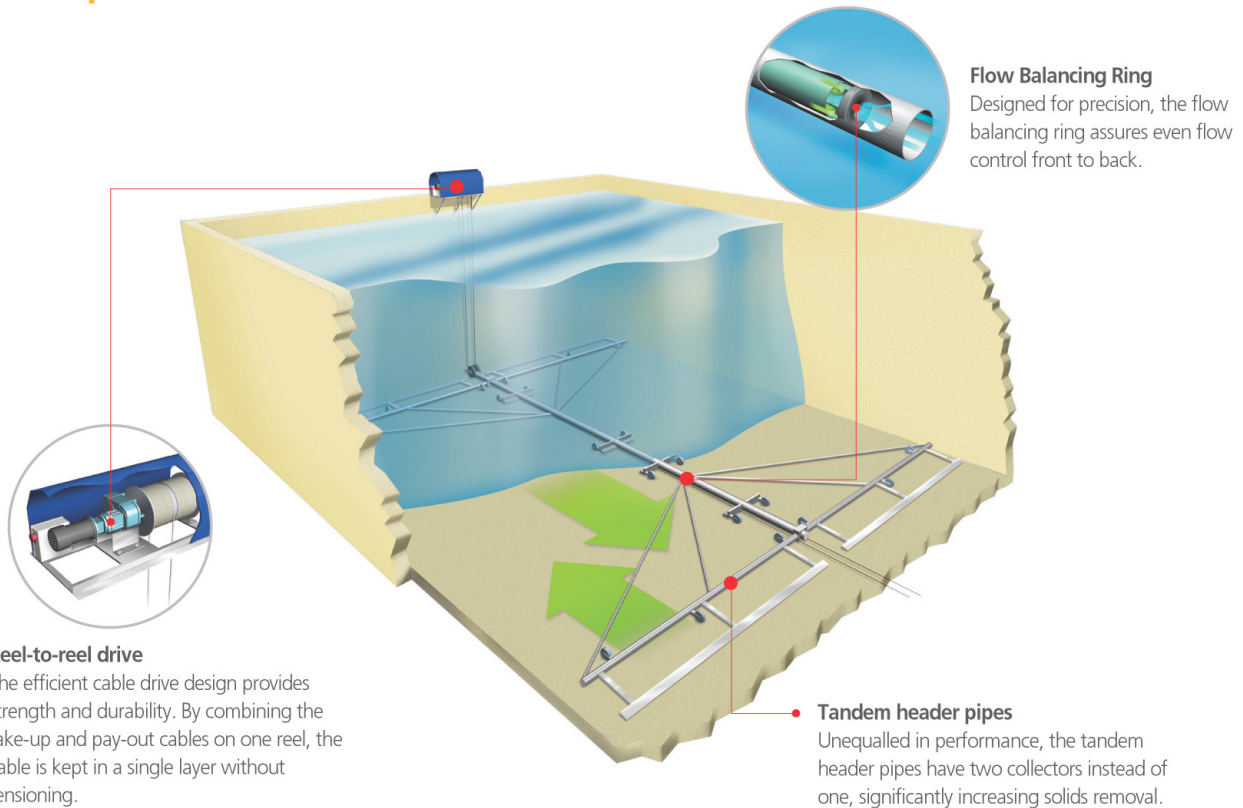


MEURER Asia Inc.
www.meurerasia.com

The Optimal Choice for Sludge Collection

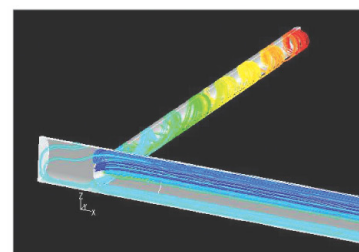
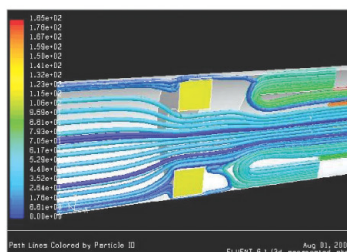
MRI Hoseless Cable-Vac™

Unsurpassed MRI HOSELESS CABLE-VAC



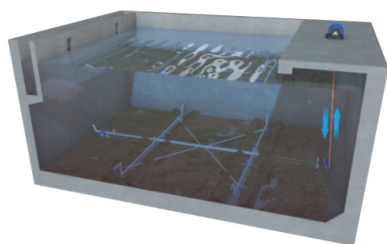
Computer Fluid Dynamic (CFD) Design

The hydraulics are carefully designed using CFD analysis to distribute flows both front-to-back and side-to-side.



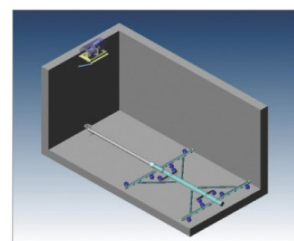
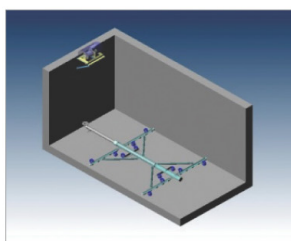
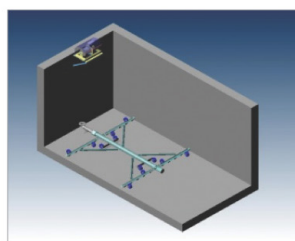
Precise Engineering, Proven Technology

Outstanding Features

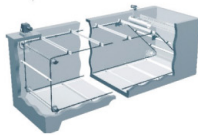
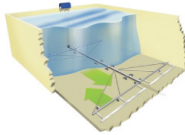



- ▶ Optimally designed orifice suctional sludge collection
- ▶ Innovative suctional flow-control device
- ▶ Minimization in site installation work
- ▶ Apparent cost-saving in civil & architectural work
- ▶ Minimized maintenance by simplified mechanical parts
- ▶ Flat bottom with no hopper
- ▶ Computational Process Instrumentation utilizing PLC and sensors
- ▶ User-friendly operational process settings

Operational Mode



Technical Evaluation

Description	Chain Flight	Suctional Orifice	Moving Floor
Appearance			
Parts Details	Bottom slope needed Hopper required Sprocket, Chain Flight, Guide support & bracket	Flat bottom No hopper required Assembled scraper unit Cable-pulleys (home/end)	Bottom slope needed Hopper required Hydraulic Lever unit. Moving floor, Concave blade, Support bracket
Parts Description	Complicated composition Many parts required Installation : 3~6days/basin	Simple composition Few Internal parts Installation : 1~2days/basin	Complicated composition Many parts required Installation : 3~6days/basin
Peculiarities	Broadly used Verified System Periodic parts replacement required No flexible operation	Very simple & few parts Cost saving in civil & architectural work Flexible operation PLC programmable	Many submersible parts Periodic parts replacement required No flexible operation

MAJOR REFERENCES



▶ Samsung Tangjeong T.C IWWTP (Asan, Korea)

Capacity (Total)	268,000 m ³ /day	No. of Units	
Secondary	84,000 m ³ /day	Secondary	24 units
Tertiary	184,000 m ³ /day	Tertiary	24 units
Completion Date	Aug. 2006 ~ Dec. 2011		



▶ LG Display LCD IWWTP (Paju / Gumi, Korea)

Capacity (Total)	188,000 m ³ /day	No. of Units	
Secondary	134,000 m ³ /day	Secondary	17 units
Tertiary	54,000 m ³ /day	Tertiary	6 units
Completion Date	May. 2004 ~ Dec. 2010		



▶ Yeosu Joongheung IWWTP (Yeosu, Korea)

Capacity (Total)	32,000 m ³ /day
No. of Units	4 units
Basin Size	W7.0m x L8.3m x H5.7m
Completion Date	Apr., 2009



▶ Suwon Seohocheon MWWTP (Suwon, Korea)

Capacity (Total)	47,000 m ³ /day
No. of Units	4 units
Basin Size	W6m x L12.5m x H9.0m
Completion Date	May, 2011



▶ LG Siltron Gumi P3 Plant IWWTP (Gumi, Korea)

Capacity (Total)	16,000 m ³ /day
No. of Units	4 units
Basin Size	W4.0m x L7.0m x H5.5m
Completion Date	Apr., 2008



▶ LG Electronics Gumi PDP Plant IWWTP Recycling (Gumi, Korea)

Capacity (Total)	4,000 m ³ /day
No. of Units	1 unit
Basin Size	W5.6m x L5.9m x H5.0m
Completion Date	Dec., 2006



▶ Daegu Hyunpoong MWWTP (Daegu, Korea)

Capacity (Total)	23,000 m ³ /day
No. of Units	4 units
Basin Size	W6.0m x L15.0m x H6.4m
Completion Date	May, 2009



▶ Everland STP (Youngin, Korea)

Capacity (Total)	7,500 m ³ /day
No. of Units	1 unit
Basin Size	W6.5m x L10.5m x H5.5m
Completion Date	Jun., 2006

OUTSTANDING REFERENCES

Drinking WTP



REEL-TO-REEL DRIVE UNIT



ISOLATED SLUDGE PIPING

► RENOVATION OF EXISTING SLUDGE COLLECTORS

Plant	El Sobrante WTP CA 94803, USA
Flow Rate	75,700 m ³ /day
No. of units	2 basins, 10 units/basin
Client	East Bay Municipal district
Contractor	Monteray Mechanical Co.
Designer	EB MUDD
Year constructed	2005
Challenge	Existing 20 Trac-vac sludge collectors experiencing problems have been replaced to new 10 units of Cable-vac for System renovation.

HOSES UNDER PLATE SETTLERS CAUSE PROBLEMS WITH TANGLING, CATCHING AND PRIMING



BEFORE



AFTER



► REHABILITATION OF CONVENTIONALLY OPERATED EXISTING CLARIFIERS

Plant	Balara Drinking WTP Balara, Quezon Philippines
Flow Rate	1,250,000 m ³ /day (12 basins)
No. of units	4 units for 1 basin completed currently
Application	Implementation of Automated sludge collection system for manual accumulated sludge decanting
Client	Manila Water Company Inc.
Contractor	BIWATER(Malaysia) Sdn Bhd.
Designer	Halcrow Asia Inc./Radian Consultant Inc.
Year constructed	2008 (1st. Stage)
Challenge	Superior performance Minimized maintenance User-friendly Operational Logic (PLC controlled)

FURNISHMENT OF AUTOMATED SUCTIONAL DE-SLUDGING SYSTEM IN EXISTING CLARIFIER WITHOUT SLUDGE COLLECTOR



ELECTRIC ACTUATOR



REEL-TO-REEL DRIVE UNIT



BEFORE



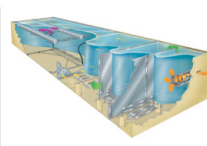
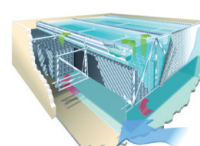
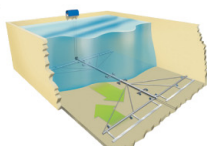
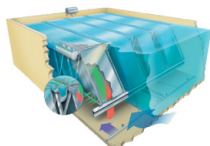
AFTER

For Ecologically Clean Environment



Handling Items

MRI plate settler
Hoseless Cable-Vac sludge collector
Tube settler
Helical Inlet diffuser
Flow equalization devices



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