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Shanghai QILEE Environmental Protection Equipment Co., Ltd



上海祁立环保设备有限公司

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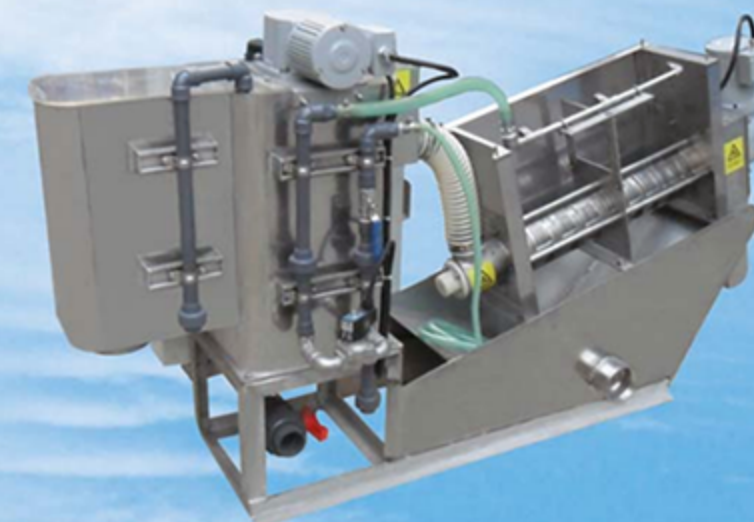
转鼓浓缩/脱水一体机

Rotary Drum Thickening/Dehydrating Belt Presses



高分子全自动泡药机

Macromolecule Automatic Dissolver



叠螺式污泥脱水机

Stacked Sludge Dewatering

企业简介

上海祁立环保设备有限公司是集研究开发、生产销售环保设备为一体的专业企业，公司自成立以来，一贯秉持“品质第一，永续经营”之企业理念，实施“专业化，规模化，国际化”之发展战略。不断进行技术创新，并结合各行业客户使用经验和建议，为客户提供更优质的产品与服务。

公司引进国外先进技术，自主设计生产的污泥脱水机、高分子自动泡药机、搅拌机等设备已广泛应用于环保、化工、食品、制药、电镀、冶金等行业。

我们将以宝贵的行业经验和深厚的专业知识，为您提供最完善的售前和售后服务，与您共创一个无污染的生活环境空间。

Shanghai QILEE is a company integrates the research and development, production and marketing of environmental protection equipment. It adheres to the corporate philosophy of “Quality first, Sustainable operation” since its foundation in 2006. It implements development strategic of “professionalization, scale and internationalization”. Shanghai QILEE keeps technical innovations constantly and provides superior products to meet the requirements of customers and market.

Shanghai QILEE brings in advanced foreign technology and originally designs and manufactures sludge dehydrators, automatic dissolvers, oil skimmers and agitators.

With our precious experience and professional knowledge, we will provide our best pre-sale and after-sale service for you. Work together with us, you will find enjoyable and successful business is so easy.



Advection Flootation

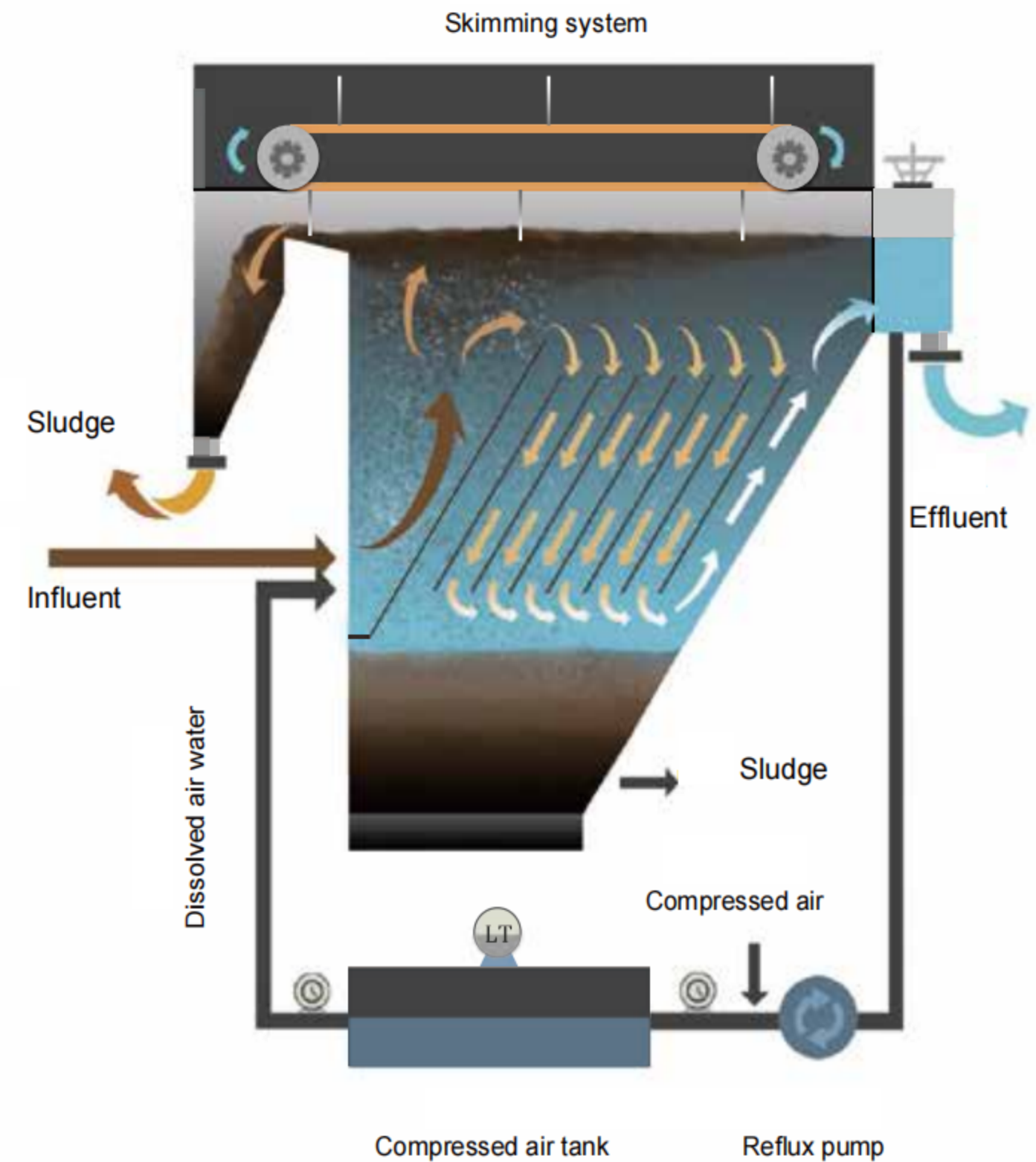


DAF Application

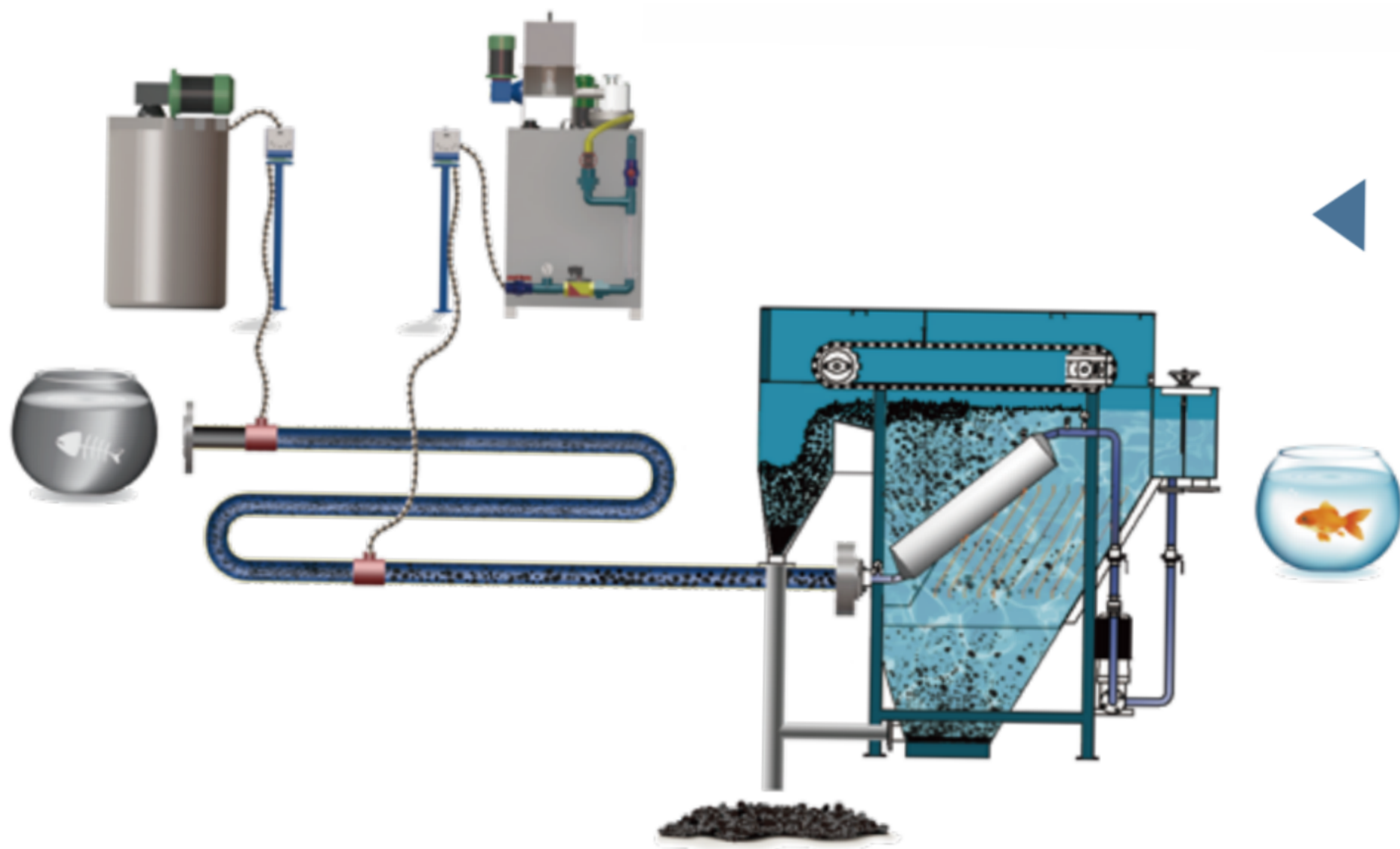
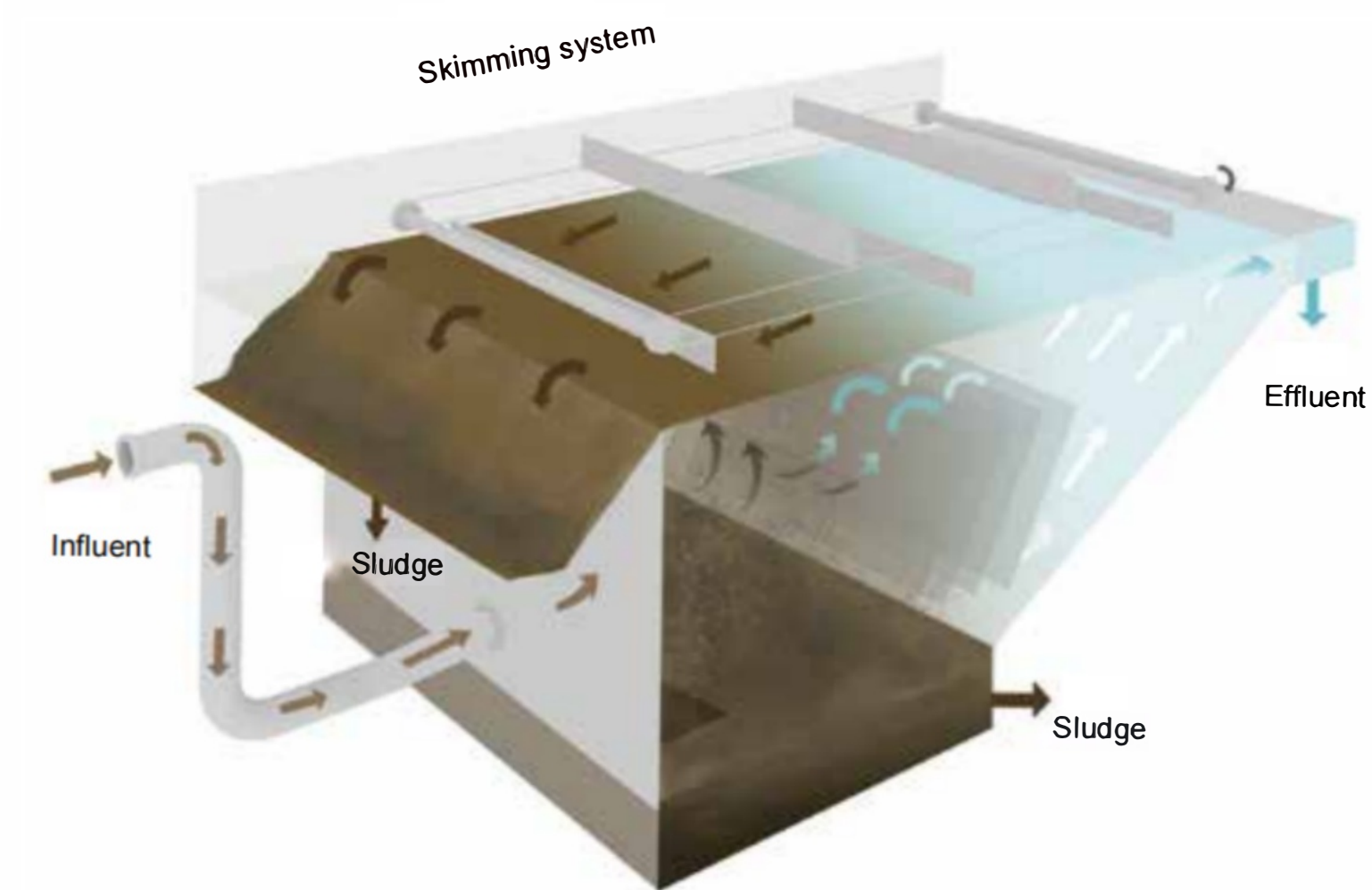
- Industrial wastewater pretreatment: food, pharmacy, textile&dyeing, semiconductor, machining process, steel, chemical, animal breeding & slaughter etc.
- WWTP: upgrade , phosphorous removal.
- WTP: algae removal.
- Ecological environment: water purification of river, lake and landscape.
- Sea water desalination.



DAF Process



DAF Separation Mechanism



DAF System Process

QDAF&QDAF2

Standard DAF

Enhance the DAF operation stability and separation efficiency after 30 years' development and technology innovation .Thousands of applications in various industries .

Core technology :

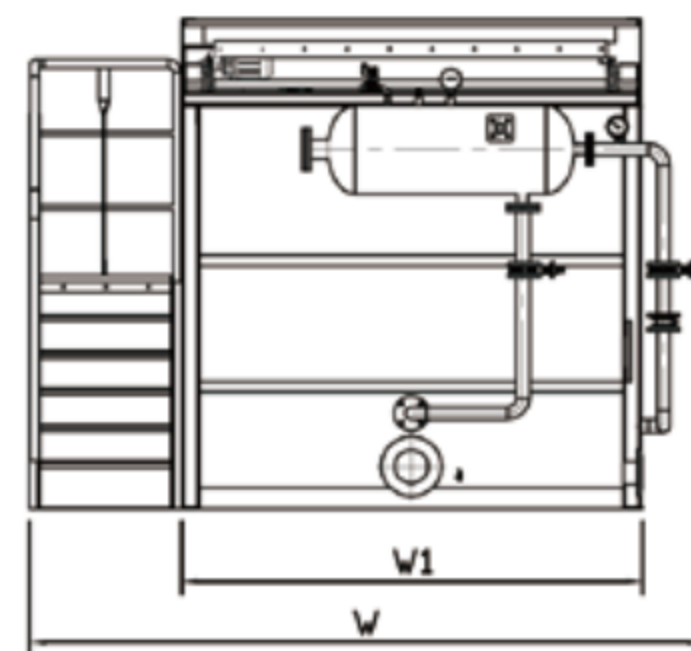
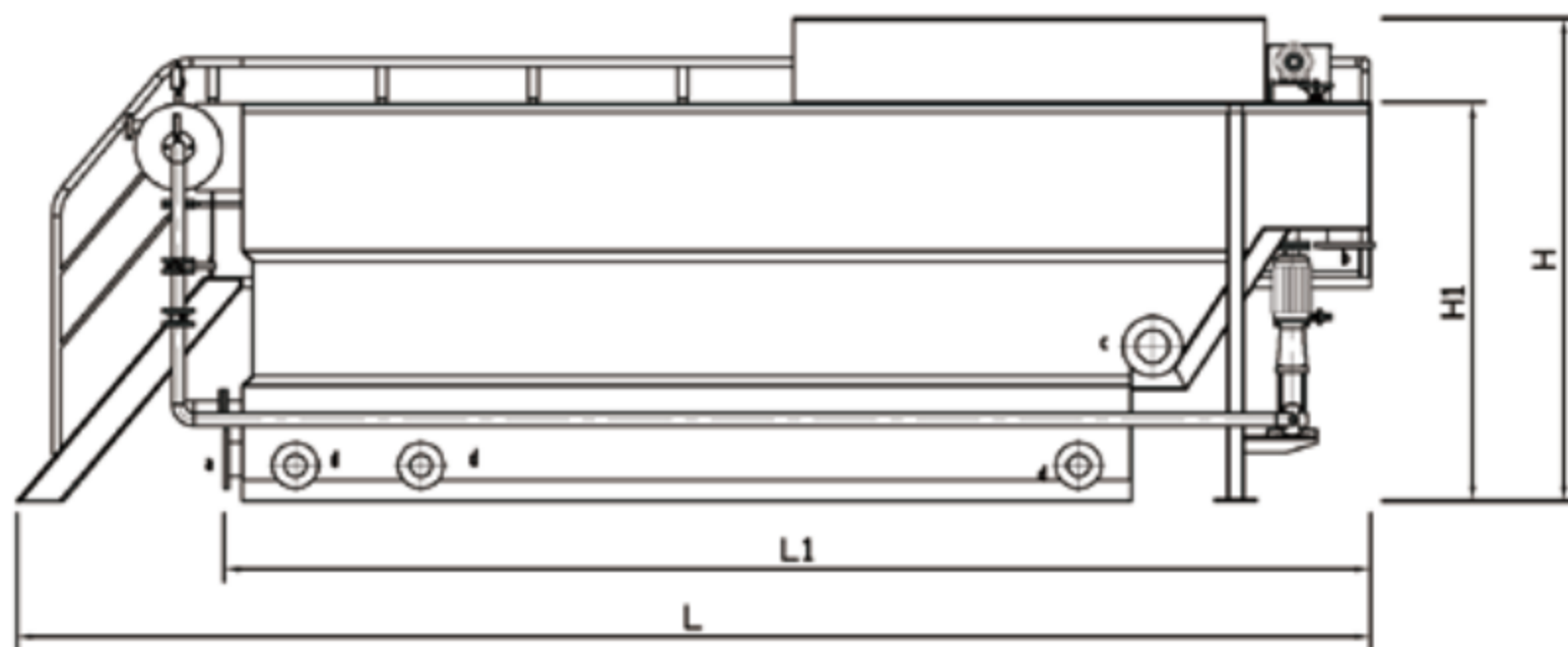
- Micro bubble generation technology
- Solid-liquid separation technology in scum zone
- QDAF2 model cite the sedimentation theory



Superiority

- Stable performance ,reliable operation.
- Huge markets,high cost-effective solution.
- Automatic scum removal, adjustable solid content according to actual demand.
- Hydraulic load 5-8 m/h.
- Packaged design, nice bending reinforcement appearance, anti-corrosion treatment and no blind angle.
- QDAF2 model with “V” or “W” type sludge hopper is especially designed for wastewater with precipitation phenomenon.

model	Capacity		(kW) Power			(m) Dimension			(DN) Nozzle list		
	(m ³ /h)	Recirculation pump	Air compressor	Skimmer	L/L ₁	W/W ₁	DAF H/H ₁	DAF2 H/H ₁	Inlet (a)	Outlet (b)	Sludge outle (c)
QDAF-003	~ 3	0.75	0.55	0.2	3.6/2.8	2.4/1.16	2.2/1.7	/	50	50	100
QDAF-005	~ 5	1.1	0.55	0.2	3.9/3.1	2.4/1.16	2.2/1.7	/	80	50	100
QDAF/QDAF2-010	~ 10	1.1	0.55	0.2	4.3/3.3	2.9/1.66	2.3/1.9	2.7/2.2	100	100	100
QDAF/QDAF2-020	~ 20	3.0/5.5	0.75	0.2	5.4/4.4	3.2/2.16	2.3/1.9	2.7/2.2	150	100	100
QDAF/QDAF2-030	~ 30	3.0/5.5	0.75	0.2	6.5/5.5	3.2/2.16	2.3/1.9	2.7/2.2	150	150	150
QDAF/QDAF2-040	~ 40	4.0/5.5	0.75	0.2	6.5/5.5	3.7/2.7	2.3/1.9	2.7/2.2	200	150	150
QDAF/QDAF2-050	~ 50	7.5	1.5	0.2	7.3/6.2	3.7/2.7	2.3/1.9	2.7/2.2	200	150	150
QDAF/QDAF2-060	~ 60	7.5	1.5	0.2	7.9/6.5	4.0/3.0	2.7/2.3	3.0/2.6	250	200	150
QDAF/QDAF2-080	~ 80	11	1.5	0.2	9.7/8.3	4.0/3.0	2.7/2.3	3.0/2.6	250	200	150
QDAF/QDAF2-100	~ 100	15	2.2	0.2	10.7/9.3	4.4/3.4	2.7/2.3	3.0/2.6	300	250	150
QDAF/QDAF2-120	~ 120	15	2.2	0.2	11.7/10.3	4.4/3.4	2.7/2.3	3.0/2.6	300	250	150
QDAF/QDAF2-150	~ 150	18.5	2.2	0.2	12.5/11.4	4.8/3.8	2.7/2.3	3.0/2.6	300	300	150



QIDAF&QIDAF2

Integrated DAF

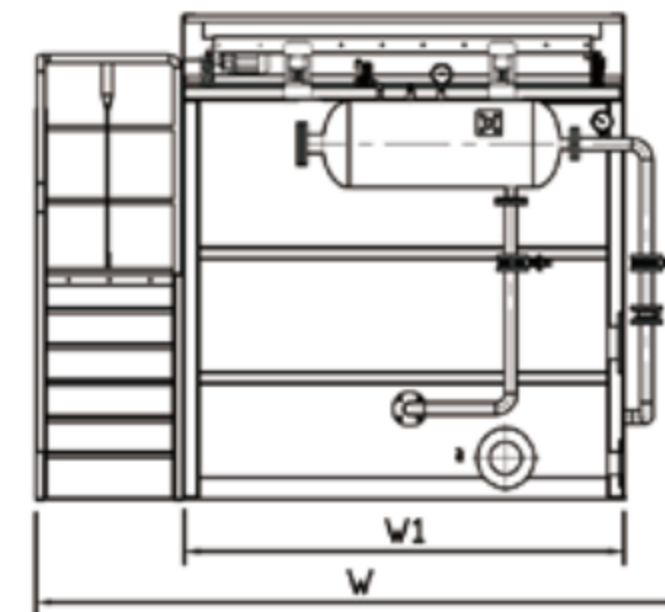
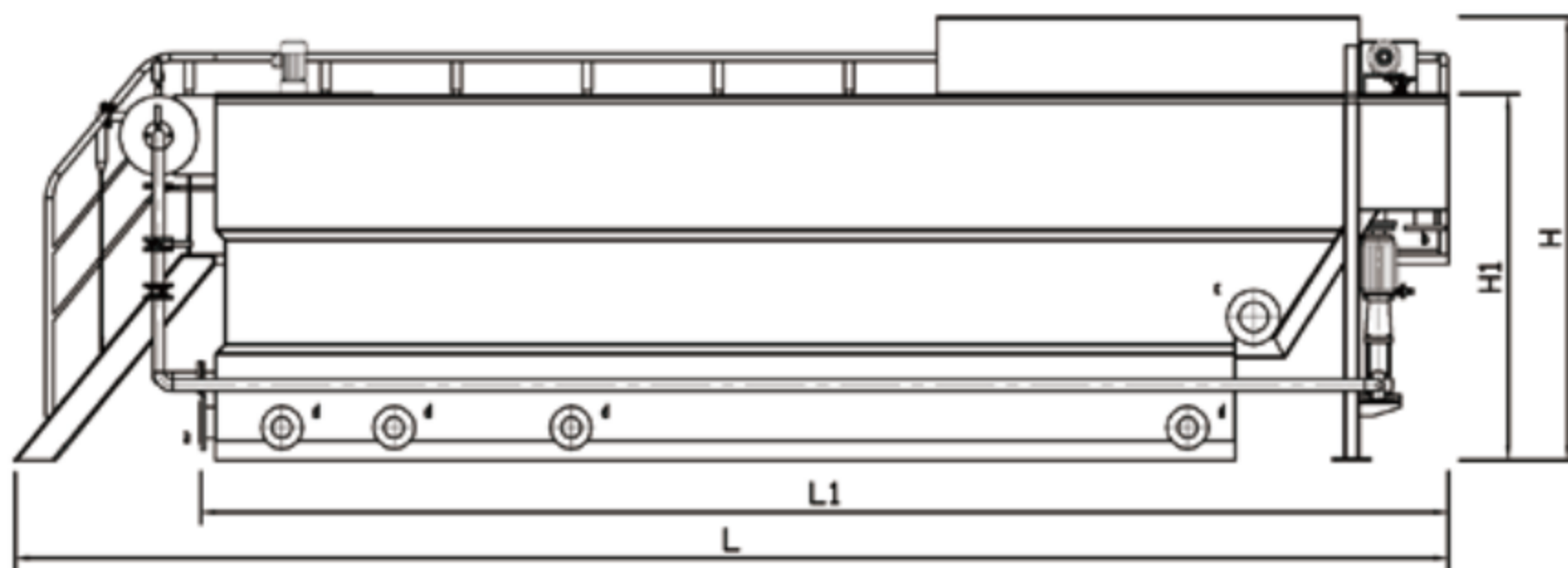
A perfect combination of DAF/DAF2 and chemical reaction tank .This series is applied very widely as an integrated DAF solution with advantage of more compact structure ,less occupied space and easier installation.



Superiority

- Compact structure ,packaged design, small occupied space.
- Perfect combination of DAF and chemical reaction tank.

Model	Capacity		Power (kW)				Dimension (m)				Nozzle list (DN)		
	(m3/h)	Recirculation pump	Air compressor	Skimmer	Coagulation mixer	Flocculation mixer	L/L ₁	W/W ₁	IDAF H/H ₁	IDAF2 H/H ₁	inlet (a)	Outlet (b)	Sludge outlet (c)
QIDAF-003	~ 3	0.75	0.55	0.2	0.2	0.2	4.1/3.2	2.4/1.16	2.2/1.7	/	50	50	100
QIDAF-005	~ 5	1.1	0.55	0.2	0.2	0.2	4.4/3.6	2.4/1.16	2.2/1.7	/	80	50	100
QIDAF/QIDAF2-010	~ 10	1.1	0.55	0.2	0.4	0.2	5.0/4.0	2.9/1.66	2.3/1.9	2.7/2.2	100	100	100
QIDAF/QIDAF2-020	~ 20	3.0/5.5	0.75	0.2	0.4	0.2	6.2/5.2	3.2/2.16	2.3/1.9	2.7/2.2	150	100	100
QIDAF/QIDAF2-030	~ 30	3.0/5.5	0.75	0.2	0.4	0.2	7.7/6.7	3.2/2.16	2.3/1.9	2.7/2.2	150	150	150
QIDAF/QIDAF2-040	~ 40	4.0/5.5	0.75	0.2	0.75	0.4	7.7/6.7	3.7/2.7	2.3/1.9	2.7/2.2	150	150	150
QIDAF/QIDAF2-050	~ 50	7.5	1.5	0.2	0.75	0.4	8.8/7.8	3.7/2.7	2.3/1.9	2.7/2.2	200	150	150
QIDAF/QIDAF2-060	~ 60	7.5	1.5	0.2	1.5	0.4	9.4/8.1	4.0/3.0	2.7/2.3	3.0/2.6	250	200	150
QIDAF/QIDAF2-080	~ 80	11	1.5	0.2	1.5	0.4	11.7/10.4	4.0/3.0	2.7/2.3	3.0/2.6	250	200	150
QIDAF/QIDAF2-100	~ 100	15	2.2	0.2	1.5	0.4	13.1/11.8	4.4/3.4	2.7/2.3	3.0/2.6	300	250	150
QIDAF/QIDAF2-120	~ 120	15	2.2	0.2	1.5	0.4	14.1/12.8	4.4/3.4	2.7/2.3	3.0/2.6	300	250	150
QIDAF/QIDAF2-150	~ 150	18.5	2.2	0.2	1.5	0.4	14.1/12.8	4.8/3.8	2.7/2.3	3.0/2.6	300	300	150



QSDAF

High Efficiency Sedimentation DAF

SDAF is a new dissolved air flotation developed by QILEE based on the DAF applications for years .It' s a perfect combination of sedimentation and DAF to achieve high efficient solid-liquid separation .

Core technology :

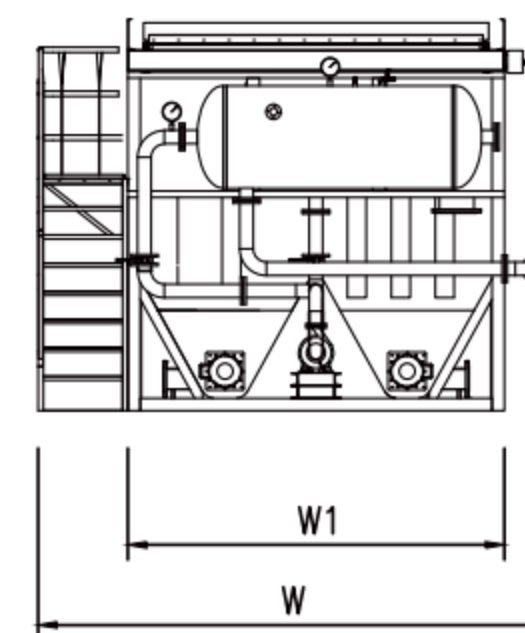
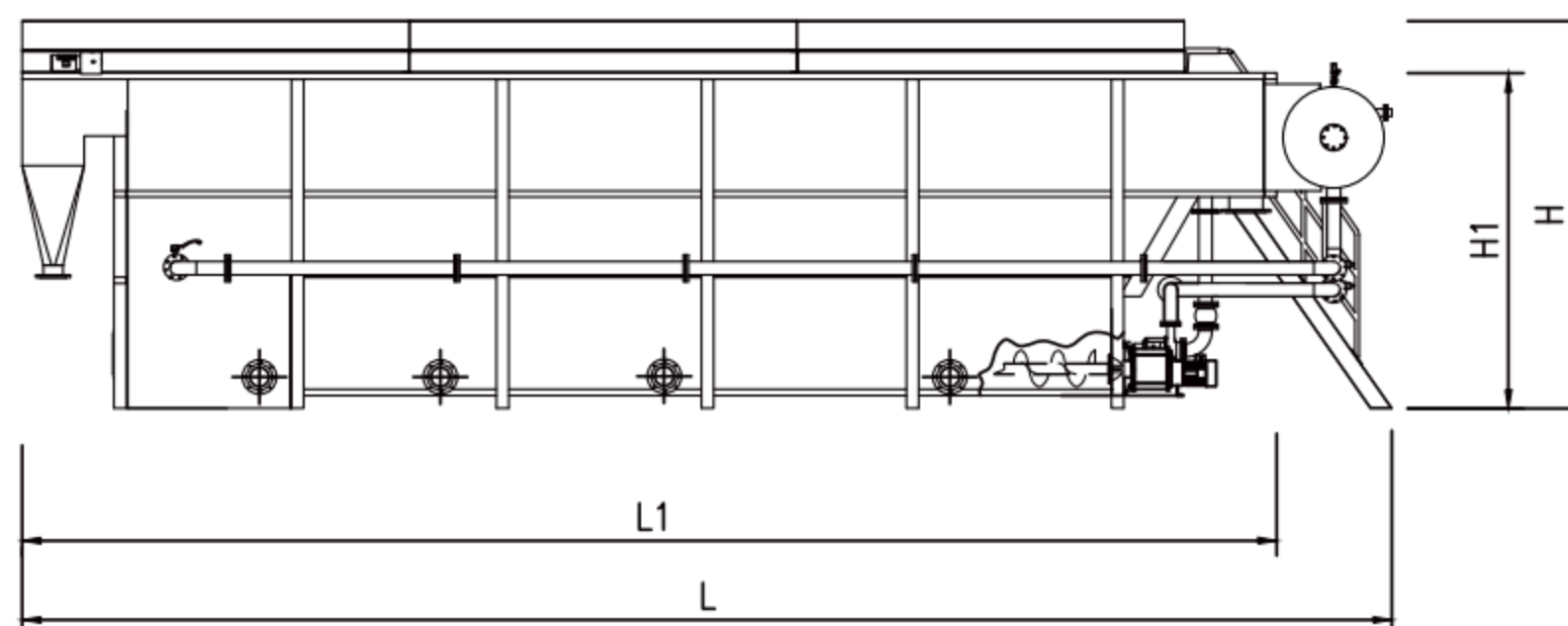
- Microbubbles generation technology
- Surface capture technology, counter flow
- Box type skimming technology
- Horizontal flow technology in separation zone
- Scum recirculation and flocculation technology



Superiority

- Inclined plates in separation zone, it provides more effective separation area and optimizes the flow distribution.
- Suitable for high concentration solid (suspended solids, oil and colloidal substance) content (the highest concentration of 10000 mg/L) Waste water.
- Maximum hydraulic load $12 \text{ m}^3/(\text{m}^2 \cdot \text{h})$ and better outlet water quality.
- Lower chemical consumption.
- No dead angle in scum collection tank, no deposit .

Model	Capacity		(kW)			Dimension (m)			Nozzle list (DN)		
	(m3/h)	Recirculation pump	Air compressor	撇渣机 Skimmer	刮泥机 Sludge scraper	L/L ₁	W/W ₁	H/H ₁	inlet (a)	Outlet (b)	Sludge outlet (c)
QSDAF-003	~ 3	0.75	0.55	0.18	/	3.4/2.2	2.4/1.7	2.4/1.9	80	80	100
QSDAF-005	~ 5	1.1	0.55	0.18	/	3.8/2.5	2.2/1.5	2.5/2.1	80	80	100
QSDAF-010	~ 10	1.1	0.55	0.18	/	5.1/3.8	2.4/1.7	3.0/2.4	100	100	100
QSDAF-020	~ 20	3.0/5.5	0.75	0.18	/	5.4/4.1	2.9/2.2	3.0/2.4	150	150	150
QSDAF-030	~ 30	3.0/5.5	0.75	0.18	/	5.5/4.2	3.2/2.5	3.2/2.6	150	150	150
QSDAF-040	~ 40	4.0/5.5	0.75	0.18	/	6.5/5.2	3.2/2.5	3.2/2.6	200	200	150
QSDAF-050	~ 50	7.5	1.5	0.18	1.5	7.2/5.9	3.2/2.5	3.2/2.6	200	200	150
QSDAF-060	~ 60	7.5	1.5	0.18	1.5	7.6/6.7	2.7/3.3	3.3/2.7	250	250	150
QSDAF-080	~ 80	11	1.5	0.18	1.5×2	9.4/8.5	3.1/2.4	3.3/2.7	250	250	150
QSDAF-100	~ 100	15	2.2	0.18	1.5×2	10.0/8.8	3.7/3.0	3.3/2.7	300	250	150
QSDAF-120	~ 120	15	2.2	0.18	1.5×2	10.9/9.7	3.7/3.0	3.3/2.7	300	300	150
QSDAF-150	~ 150	18.5	2.2	0.18	1.5×2	13.5/12.2	3.7/3.0	3.3/2.7	350	300	150



Roll Flow™ DAF Introduction



Working Process

Main Character And Superiority

- ✓ Larger capacity. Max capacity can be up to 30 000 ton/day .
- ✓ Higher hydraulic load . Actual tested operation load 25m/h.
- ✓ Lower power consumption . Save 15-30% energy.
- ✓ Smaller footprint. 20-40% less than traditional DAF footprint .
- ✓ Excellent outlet water. SS <5mg/L and phosphorus <0.1mg/L for WWTP upgrade project outlet water.

New generation DAF set sail gorgeously

Over the past 30 years, DAF application has been expanded from initial industrial wastewater pretreatment to municipal wastewater treatment, and sea water desalination etc. For new application, we have higher requirements and more expectations for DAF, treatment capacity, separating efficiency, operation economy etc .

With over 10 years' continuous insistence and study, QILEE DAF team has developed the new generation DAF with great success -high efficient Roll Flow DAF launched gorgeously.

High efficient roll flow DAF is a newly designed DAF equipment with high hydraulic load and large capacity. Our engineers carry out the comprehensive design based on flow state, flow speed, air dissolved water distribution density etc, and also utilize the FLUENT SYSTEM for calculation . Roll flow DAF subverts the traditional DAF design concept and is a revolutionary innovation for DAF technology .

Core Technology

- Linear equal water distribution and synchronous water collection technology
- Roll flow and steady flow technology for separating zone
- Parallel separating technology to achieve equal hydraulic loading rate
- Air dissolved water distribution technology
- Full coverage skimming technology

Application Field

- WWTP upgrade, water purification of water treatment plant, river and landscape lake, sea water desalination plant etc .
- Industrial wastewater treatment .

Build Structure Type

- Skid mounted system /Concrete tank /Container shipment

Roll Flow™ DAF - Municipal Super DAF (QRF-SDAF)

- Capacity is above 200m³/h .
- Applied for wastewater with low SS (~100ppm) , like: municipal and industrial WWTP upgrade or phosphorous removal, lake purification, river purification, ecological landscape water purification ,sea water desalination etc .
- Design hydraulic loading rate 15-25m/h .Outlet SS 0-5 mg/L .

model	Capacity		(kW) Power		(m) Dimension			(DN) Nozzle list			
	(m ³ /d)	Recirculation pump	Air compressor	Skimmer	L/L ₁	W/W ₁	H/H ₁	Inlet (a)	Outlet (b)	Sludge outlet (c)	Vent nozzle (d)
QRF-SDAF200	5000	11	1.50	0.2	4.8	3.8/3.6	2.9/2.6	350	300	150	100
QRF-SDAF400	10000	18.5	2.20	0.2	8.3	3.8/3.6	2.9/2.6	450	400	150	100
QRF-SDAF500	12000	18.5	2.20	0.2	9.5	3.8/3.6	2.9/2.6	500	450	150	100
QRF-SDAF600	15000	22	3.00	0.2	11.7	3.8/3.6	2.9/2.6	550	450	150	100
QRF-SDAF800	20000	18.5*2	3.00	0.2	15.2	3.8/3.6	2.9/2.6	450*2	400*2	150*2	100
QRF-SDAF1000	24000	18.5*2	3.00	0.2*2	20.3	3.8/3.6	2.9/2.6	500*2	450*2	150*2	100
QRF-SDAF1200	30000	22*2	4.00	0.2*2	24.6	3.8/3.6	2.9/2.6	550*2	450*2	150*2	100