DISSOLVED AIR FLOTATION SYSTEM







Product Introduction

Dissolved Air Flotation System (DAF) is an efficient flotation method for water clarification. The term refers to the method of producing flotation by dissolving air in the water under pressure and then releasing the pressure. When the pressure is released the solution becomes supersaturated with air as millions of small bubbles form. These bubbles attach to any particles in the water causing their density to become less than that of water. The particles then rapidly float to the surface for collection and removal, leaving the clarified water behind.

Features

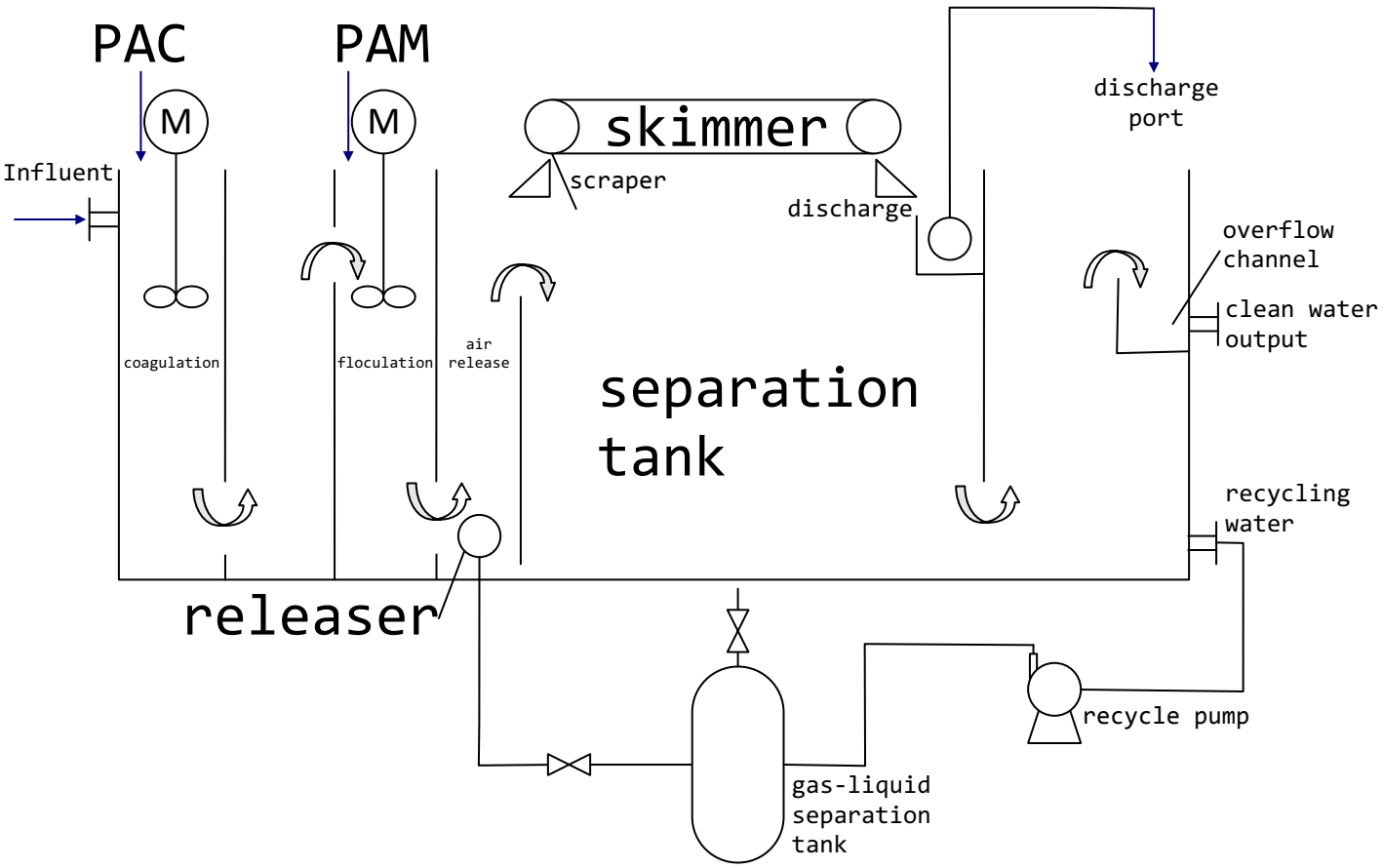
- Flow rate of one set: 1-150m³/h.
- High efficiency pressurization system providing high quantity dissolved-air water to create large quantities of micro bubbles.
- Custom design on different dissolved air flotation equipment and recycle flow ration according to the type of wastewater and treatment requirement to achieve target removal effect and stability.
- Adjustable nylon or stainless steel chain type skimmer to suit the different quantity of sludge.
- Integrated coagulation and flocculation tank and cleaning water tank(as optional).
- Automatic and remote controllable.
- Material of construction:

  Carbon steel(epoxy painted)

  Carbon steel(epoxy painted)+FRP lining

  SUS304

  SUS316L



Dissolved Air Flotation System

HLDAF

Application

DAF system is a proven, and effective physical-chemical technology commonly used for many industrial and municipal applications, including:

- Product recovery and reuse
- Pretreatment to meet sewer discharge limits
- Pretreatment to reduce loading on downstream biological systems
- Polishing of biological treatment effluent
- Removing silt and grease from industrial water

DAF is used extensively in the following industries:

- Meat, poultry and fish processing
- Dairy industry
- Petrochemicals
- Pulp and paper
- Food and beverage

Specifications

Model	Dimension	Skimmer Power(kw)	Mixer Power(kW)	Dissolved Air Pump Power(kW)	Air Compressor Power(kW)
HLDAF-1	Φ1200*2800mm	0.55kW	/	0.55kW	/
HLDAF-2.5	Φ1500*2800mm	0.55kW	0.55kW*1	0.55kW	/
HLDAF-5	3.5*2.0*2.0m	0.55kW	0.55kW*2	0.75kW	/
HLDAF-10	4.5*2.1*2.0m	0.55kW	0.55kW*2	3.0kW	/
HLDAF-15	5.0*2.1*2.1m	0.55kW	0.55kW*2	3.0kW	/
HLDAF-20	5.5*2.1*2.1m	0.55kW	0.55kW*2	3.0kW	/
HLDAF-30	7.0*2.1*2.1m	0.75kW	0.75kW*2	1.5kW	1.5kW
HLDAF-40	8.0*2.15*2.15m	0.75kW	0.75kW*2	2.2kW	2.2kW
HLDAF-50	9.0*2.15*2.15m	0.75kW	0.75kW*2	4.0kW	3.0kW
HLDAF-60	9.0*2.5*2.5m	0.75kW	0.75kW*2	4.0kW	4.0kW
HLDAF-75	9.0*3.0*2.5m	0.75kW	0.75kW*3	4.0kW	5.0kW
HLDAF-100	10.0*3.0*3.0m	0.75kW	0.75kW*3	5.5kW	5.5kW