HYDROFLUX epco

Sydney | Melbourne | Brisbane | Portsmouth | Suva | Auckland

TECHNICAL SPECIFICATIONS

HUBER Q-PRESS

Packaged Systems

GRS CERTIFIED SYSTEM

ISO 9001: 2015
ISO 14001: 2015
OHSAS 18001: 2007
AS/NZS 4801: 2001

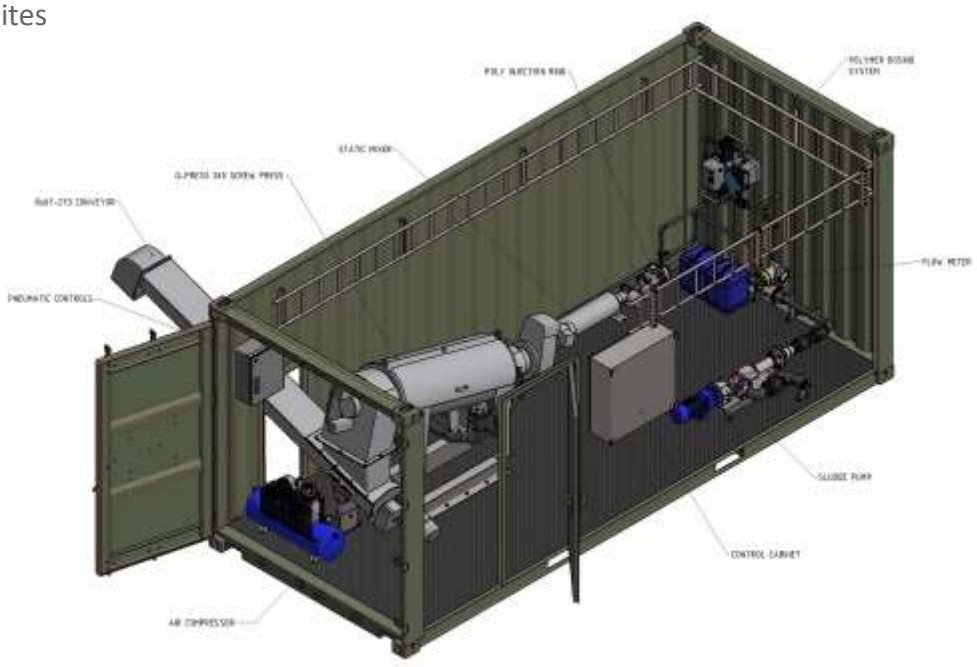
Introduction

The Hydroflux QPRESS containerized sludge plant is a packaged system that is delivered as a pre-piped, pre-wired and tested unit. The system is designed to dewater sludge that is produced from water and wastewater treatment plants.

Applications

QPRESS Containers can be used in wide range of municipal, industrial and mining applications as follows:

- Mine sites and accommodation camps
- Resorts
- Developments
- Industrial sites
- Towns
- Remote sites



Materials of Construction

SECTION	SPECIFICATION
Container	Painted Steel
QPRESS	304/316 stainless steel
Pipework	ABS/uPVC
Conveyor	304/316 stainless steel

General Description

QPRESS is delivered as a packaged that can be installed within a single day. The system generally includes the following equipment:

- Sludge feed pump and flowmeter
- HUBER QPRESS
- Polymer Make Up and Dosing System
- Air Compressor
- Discharge Screw Conveyor
- Control System
- Piping
- Wiring
- Inlet and Outlet Connections
- Structurally modified container with access doors

The sludge pump is a helical rotor type and it draws from a sludge tank or directly from the bioreactors. Flow is measured using an electromagnetic flow meter installed within the sludge pipework prior to the QPRESS.

Polymer is required to flocculate the sludge. A polymer make up and dosing system is provided to batch diluted polymer from neat liquid. There are two versions of the polymer systems, one is fully automatic and the other a manual batch version.

Dilute polymer solution is mixed into the sludge using a polymer injection ring. Further mixing is provided by use of a static flocculation tube and mixing valve.

The flocculated sludge then enters the QPRESS where free water is drained, thickened and then dewatered to a spadable cake. The cake is transport from the container using an inclined screw conveyor and typically discharges into a stock pile or skip.

Pressed water is captured within the QPRESS and gravitates to a flange mounted at the side of the container.

Control is automated using a PLC system.

Technical Data

Item	Q280 Container	Q440 Container	Q620 Container
Hydraulic Capacity (m3/h)*	1.5 - 4	3 - 9	5 – 22
Solids Capacity Range (kg/h dry)	15 - 110	30 - 220	60 - 440
Volume Reduction (%)*	80 - 85	80 - 85	80 - 85
Container Size	20'HC	20'HC	40'HC
Water Demand (L/s at 5 bar)	1.5	2.2	2.3
Typical Hourly Demand (L/h)	120	170	300
Power Connection (A)	16	16	20
Inlet Connection	DN80	DN80	DN100
Filtrate Connection	DN80	DN80	DN150
Water Connection	DN25	DN25	DN32

**the capacity depends on the type of sludge and its solids content. Consult Hydroflux for sizing details*

Performance Data

Application	Sludge Type	Cake Solids (%)	Polymer Dose (Kg/t)
Sewage	WAS	17-18	9-12
Sewage	Digested WAS	20-24	8-12
Food Industry	DAF Float	20-35	6-10
Food Industry	WAS	14-16	10-12
Coal Seam Gas	Chemical	23-25	4-6
Water	Chemical	16-18	10-12

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Hydroflux Epco are the exclusive agent for HUBER Technology in Australia, New Zealand & Pacific Islands.

Hydroflux Epco is GRS Certified to the following standards

ISO 9001 QUALITY MANAGEMENT SYSTEM

ISO9001:2015 Certified by GRS under certificate number4779001610007.

ISO 14001 ENVIRONMENTAL MANAGEMENT SYSTEM

ISO 14001:2015 Certified by GRS under certificate number 47714001610007.

OHSAS 18001 & AS/NZS 4801 SAFETY MANAGEMENT SYSTEM

OHSAS 18001:2007 Certified by GRS under certificate number 47718001610007.
AS/NZS 4801:2001 Certified by GRS under certificate number 4774801610007.