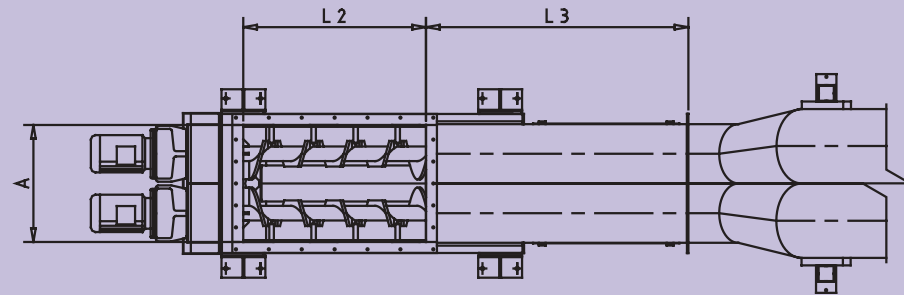


Technical specifications

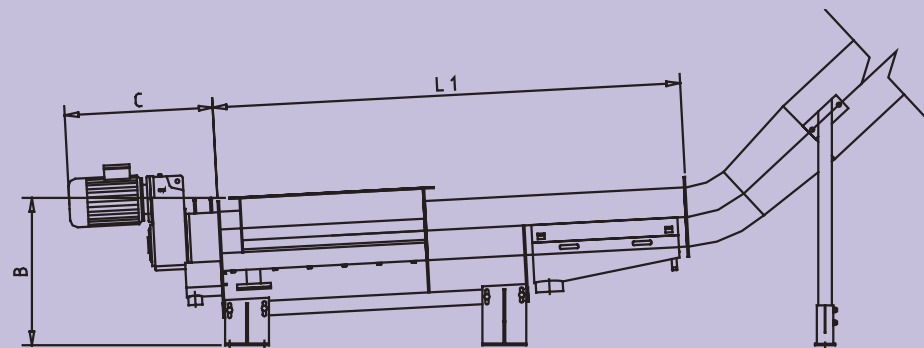
Standard Design Characteristics

Model VWR		190	280	365
Capacity (Bulk Volumes)	m ³ /hr	2.5	5	10
Washwater requirements	l/s	0.5	0.8	1.0
Power Consumption	kW	2 x 1.5	2 x 3.0	2 x 4.0



Main Dimensions

Model	A	B	C	L1	L2	L3
VWR 190	436	690	690	1905	800	991
VWR 280	640	775	705	2570	1000	1445
VWR 365	808	930	825	2630	1200	1305

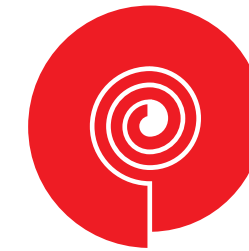


Materials Specification

Spirals:	HTMAS™
Frame, Body and Tubes:	Stainless Steel SS2333 (AISI 304)
Inlet Liner:	Duraflo SPX™
Tube Liners:	Wear Bars 3CR12

Optional Features

- Length and elevation of Compaction Tube suited to individual site requirements
- Fittings such as valves, strainers and sensors on request
- High clean option - Warm air recirculation system
- 316 Stainless steel units
- Control systems
- Feeding systems



SPIRAC
conveying technology

SPIRAC Megawasher Dewaterer

SPIRAC WASHERS FOR
SEWAGE SCREENINGS
AND GRIT

VWR MEGAWASHER

NOVEMBER 2005



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When fine screens are installed in municipal Waste Water Treatment Plants they generate large volumes of faecal and organic matter from screening activities. Typically, a washer dewaterer washes out the organic material, reduces the volume and weight of the screenings and compacts them.

What is the Megawasher Dewaterer?

The Megawasher Dewaterer represents a range of machines available to handle raw screenings flows of up to 10 m³/hr per machine. The machine continuously washes out organic material whilst mechanically compacting and dewatering the remaining inorganic portion.

The Megawasher Dewaterer is a robust and simple machine, non-sensitive to varying qualities of screenings and contents of grit.

The Megawasher Dewaterer is designed so that maintenance to all moving parts can be completed from the outside of the machine – no bearings, wheels and lubrication points are inside.

The machine can be located either directly underneath the screen or fed by a conveyor. If a launder feed is necessary a special model is on hand to deal with great volumes of free water.

The Megawasher Dewaterer is ideally suited to applications – also retrofits – where its capacity, robustness, compact size and cleaning/compacting qualities make it an obvious step up to meet tomorrow's rigorous requirements.

- > **BULK CAPACITY UP TO 10m³/hr**
- > **FAECAL MATTER REMOVAL UP TO 95%**
- > **VOLUME REDUCTION UP TO 70%**
- > **WEIGHT REDUCTION UP TO 70%**
- > **DEWATERING EFFICIENCY UP TO 60% DS**



VWR 365 - 20m³/hr capacity system; Thames Water, Slough STW

Why do you need the Megawasher Dewaterer?



Severn Trent Water, Barnhurst: Turnkey screenings handling system

- Handling of wet faecal or organic matter is unhygienic and in most countries banned from landfills by high taxes.
- The washed and dewatered material is easy to transport and the reduction of volume and weight means a cost effective handling - and quick payback of the investment.
- The return of faecal and organic matter to the flow means increased gas production from sludge digestion and improved waste utilization.
- An installed Megawasher Dewaterer reduces odour and spillage and means a better environment.
- Over 120 installations since 1992 in the UK and worldwide.

How does the Megawasher Dewaterer work?

The screenings are discharged into the inlet zone, formed as a twin trough, where the material will be extremely well mixed and lacerated.

The trough is fitted with spray pipes, which add water to the mixed matter and put organics into solution.

Washing is facilitated by two slowly rotating mixing and compacting screws. Each screw is independently driven by its own motor.

The water bound organic material is removed in the drainage zone by two perforated plate segments, which can be adjusted to optimize the dewatering result.



Crawley STW, 18m³/hr capacity system

The washed and dewatered screenings are transported into the compacting zone and pushed into friction outloading pipes.



When intergrated with SPIRAC Shaftless Screw conveyors an automatic by-pass facility can be created

- | | |
|--|---|
| > HANDLES SCREENINGS FLOWS UP TO 10m³/hr | > LOW MAINTENANCE |
| > WORKS CONTINUOUSLY EVEN AT HIGH FLOWS | > COMPLETELY ENCLOSED |
| > SIMPLE AND ROBUST MACHINE | > LOW CAPITAL COST |
| > HIGH RELIABILITY | > ACCEPTABLE REMAINDER IN TERMS OF BOD |
| > ACCEPTANCE OF MOST KIND OF SCREENINGS (HANDLES FAT AND GRIT ADEQUATELY) | > ORGANICS REMOVAL UP TO 95% |
| > NO INTERNAL BEARINGS | > VOLUME REDUCTION UP TO 70% |
| > STAINLESS STEEL THROUGHOUT | > WEIGHT REDUCTION UP TO 70% |
| | > DRY SUBSTANCE UP TO 60% |