Pumping — Treatment — Dewatering — Recycle/Disposal

Dewatering system by gravity

Active Filtration

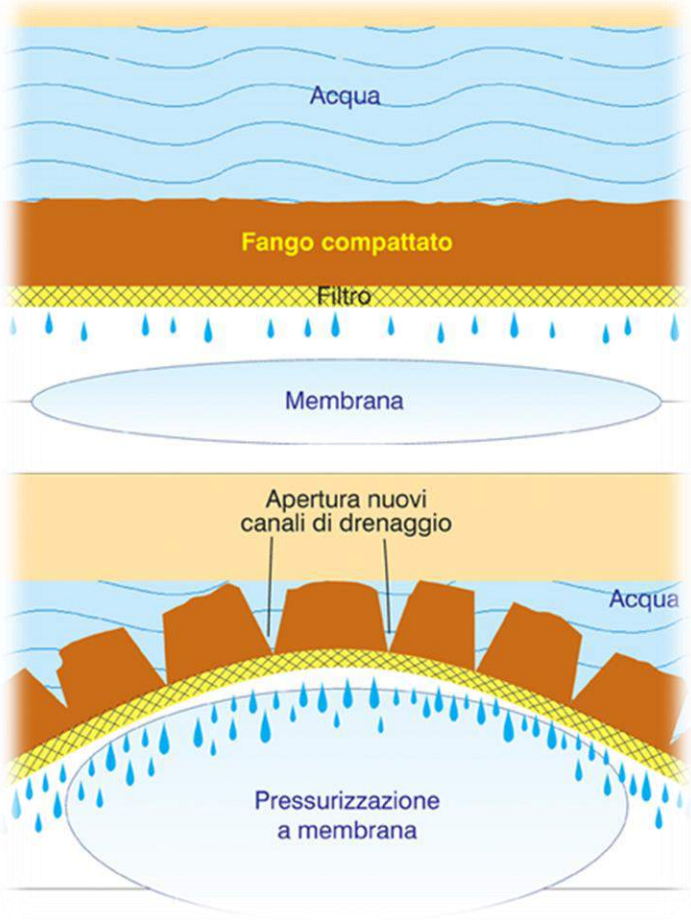
dry box® oltre
SETTLING CONTAINER

Sedimentation +Dewatering

Manufacturing Partner for:

Please contact us:
sales@a3-usa.com
412.849.6136

IDEE&PRODOTTI pumps and dewatering



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(Active Filtration) is the transition from static to dynamic filtration

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DRY BOX ® Oltre in AISI 304 - 1 product 4 functions (storage-sedimentation-dehydration-transport)

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Swing door to allow easy and safe assembly of cloth filter .

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One of the 4 nozzles in AISI 304 2 ½ , discharging filtered output

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One of the two (2) fast nozzles 2 ½ spillway water with plug and hose shank

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On-board panel for easy filtration installation & operation
(utilities: 2.5 bar air power; 0.5 kw)

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Roof with forced ventilation wings in polycarbonate

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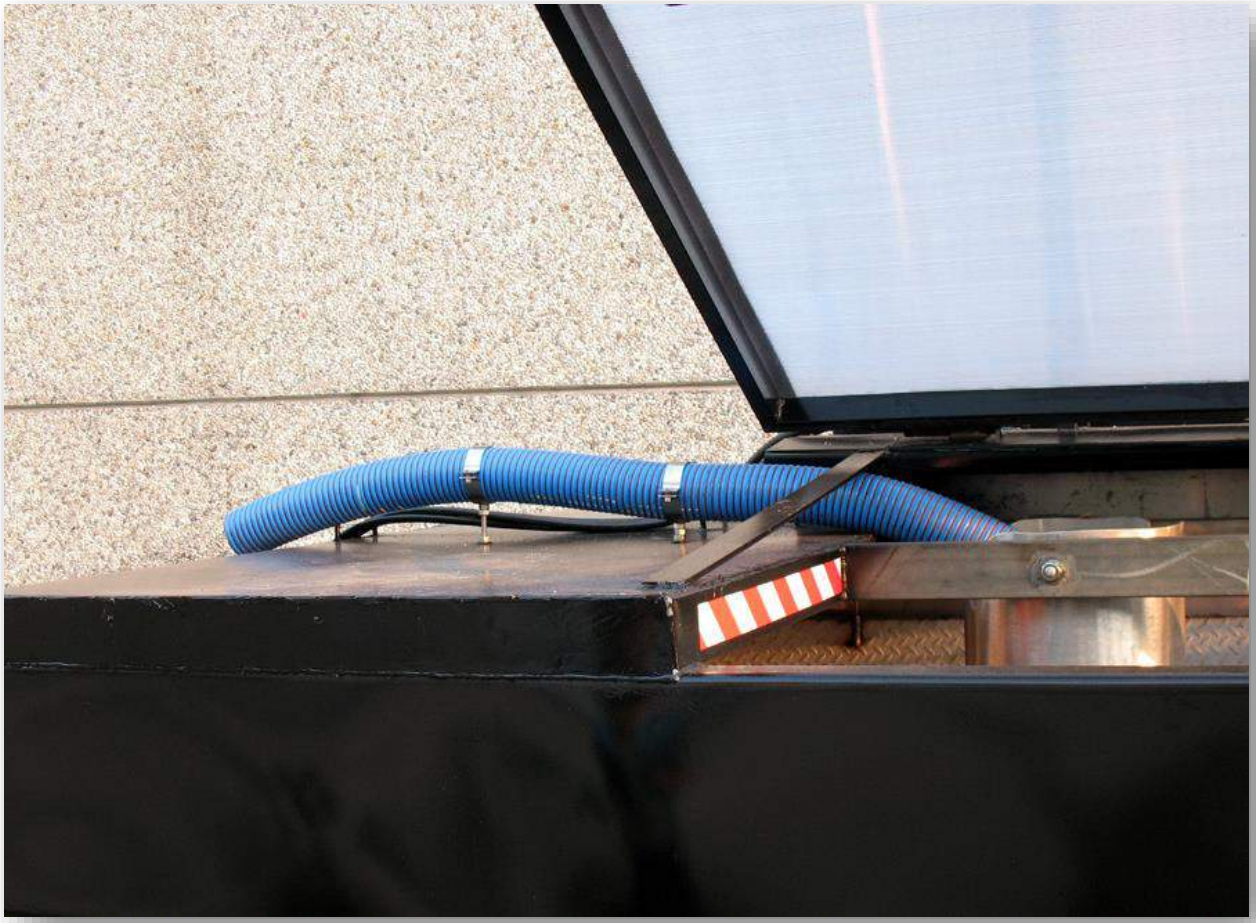

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DB is equipped with sludge feeder in AISI 304. It works as a tap aerator and surge pipe.

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Supply drilling mud with a capacity of 1400 ft^3 / h

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Feed DRY BOX ® with biological sludge feed at a flow rate of 350 ft^3 / h. The draining surface bottom and walls are made with .47" passages through the wall for the filtrate’s drainage and to support the filter cloth.

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Biological sludge from dry feeding 530 ft^3 / h

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Biological sludge from paper mill fed at 350 ft^3 / h.
Flocculated sludge shown in the zoomed image.

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Dietary fat dewatering by flotation

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Dewatered biological sludge from food production. Stainless steel hook fastening cloth shown in zoomed photo.

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Municipal biological sludge fed at 350 ft^3 / h.

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Drilling mud shown without conditioning after 8h of active filtration

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Result of mud dehydration shown 36 hours after activation of the dynamic filter.

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Discharge of filtered water with collecting pit, quick nozzle and door box

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DB Oltre works well with inert treatment without conditioning

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Installation on a pad; the inner tank welds are continuous and watertight

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Easy installation on site; shown providing services for the construction of a tunnel

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On site installation for demolition water filtration

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DB uploading operation, blasting SA 2.5 interior paint sp. 250 ų with high epoxy density, polyurethane outer bottom + 150 ų

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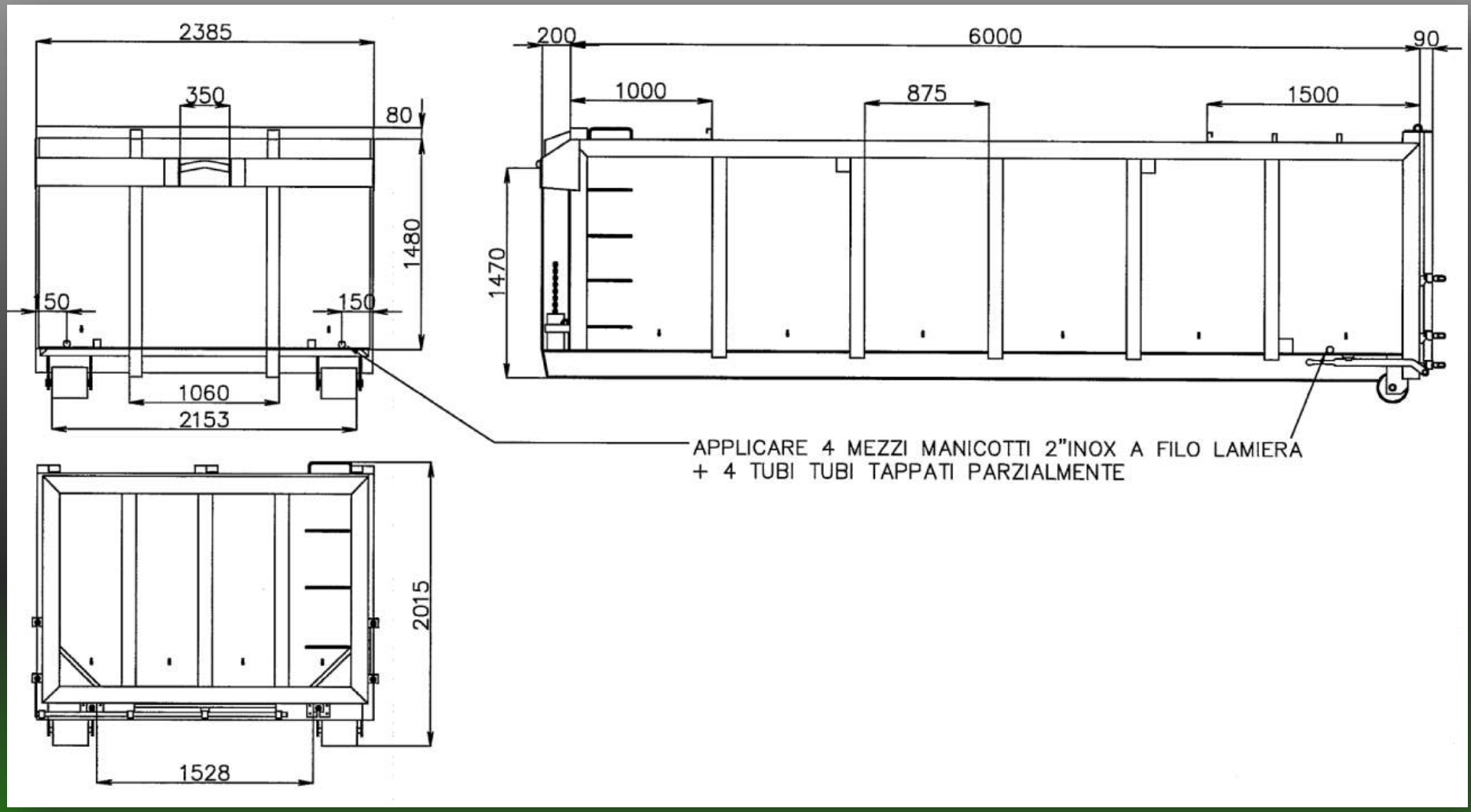
pumps and dewatering



Dimensions

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We have taken into consideration a production of 50 g of dry matter / day per person.

People	Tip No. DB installed for a linear management	Dry matter produced per day	Dehydrated sludge produced per day/15%	DB Handling
1.000	1	50 kg	350 kg	1 every 34 days
2.000	1	100 kg	700 kg	1 every 17 days
3.000	1	150 kg	1.050 kg	1 every 11,5 days
5.000	1	250 kg	1.750 kg	1 every 6,5 days
10.000	2	500 kg	3.500 kg	1 every 3,5 days
15.000	2	750 kg	5.250 kg	1 every 2 days
20.000	3	1.000 kg	7.000 kg	1 every 1,5 days
30.000	3	1.500 kg	10.500 kg	1 per day

The data are indicative and refer to specific experiences

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Suggested sizing for DRYBOX®

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Advantages

It is the perfect way for sludge dewatering up to 30,000 ab.eq .
It deals with management peaks and plant stops in a mechanical system.

- **Little room**

  It developes in a roll-off container, guided by traditional unloading systems.
  1 product 3 functions (storage-dehydration-shipping).

- **Smell repellent**

  It developes in a roll-off container, equipped with 2 containment fixed roofs and a wing covered made out of polycarbonate.

- **Negligible power consumption**

  Active filtration system is activated once mud filling is completed, by 1 h on-off cycles
  1kw compressor.

- **Easy to install**

  It is installed out of the pit, it saves room, it does not require any pre-densification.
  the supplied plant is simple and linear.

- **Simple and clean**

  Intermediate steps are cancelled, such as belt and screw conveyors and sludge storage bins.