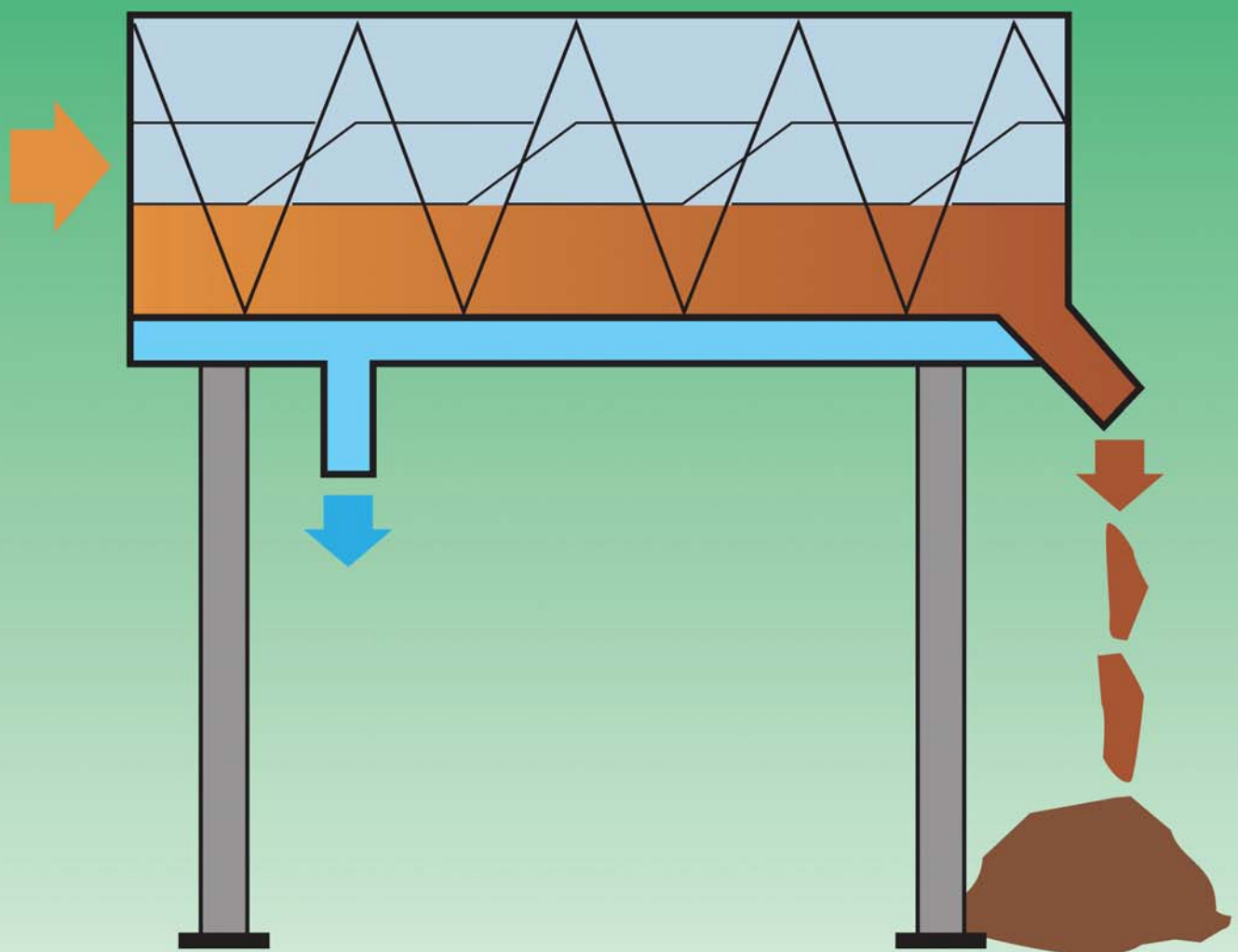


SCRUDRAIN

Addensatore fanghi
Sludge thickener



DRYCAKE

1877-DRYCAKE

Teknofanghi

CE

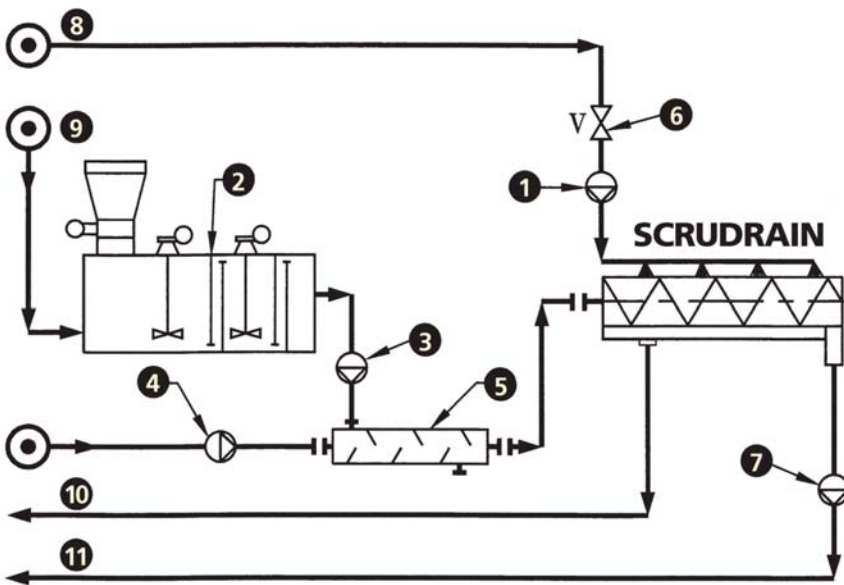
SCRUDRAIN: Archimedean screw thickeners for sludge

SCRUDRAIN thickeners manufactured by TEKNOFANGHI are the modern and economical solution to sludge thickening. Sludge thickeners are widely used in many wastewater and water treatment plants. They are generally placed before filter presses, belt presses and centrifuges to achieve higher sludge concentration before final dewatering. Sludge thickeners are also used to increase the sludge concentration before biogas reactors, thus enabling the use of smaller biogas reactors. Other applications are to reduce the volume of sludge before being pumped into drying beds or being used in agriculture. This equipment can also be used to remove coarse material such as fibres in the textile industry.

The principal and clear advantage of the SCRUDRAIN thickeners is the use of an Archimedean screw instead of only the conventional drum filter. The filter cloth made of polyester is fixed to the Archimedean screw, making a drum with a screw inside. The drum filter is rotated by an adjustable gearmotor. This design enables an easy and simple control of the dewatering process by adjusting the rotating speed to achieve the optimal dewatering time and preventing short-circuiting. The achievable dewatering results are much higher than with conventional systems. The filter cloth is kept clean by making use of washing water at high pressure from outside. Filtrate could be used. The filter cloth has a long life, since it is not under tensile stress.

SCRUDRAIN thickeners are supplied complete with control panel, washing pump and all ancillary equipment necessary for efficient operation. The SCRUDRAIN thickeners are supplied as complete assembled and tested units in order to minimise installation time and costs. The SCRUDRAIN sludge thickeners can handle from a few m^3/h to a maximum of $60 m^3/h$, depending on the type of sludge and the dry solid content. Changing the speed of the Archimedean screw allows adjustment of the concentration of the thickened sludge and minimises the use of polyelectrolyte according to requirements. As a general guide, sludge with 0,5÷3% can be thickened to 5÷15% DS. In keeping with TEKNOFANGHI's well known high standards, all sludge treatment equipment is made of AISI 304 stainless steel.

Typical Scrudrain installation



| Pos. | Description |
|------|----------------------------------|
| 1 | Washing Pump |
| 2 | Polymer Unit(optional) |
| 3 | Polymer Pump(optional) |
| 4 | Sludge Pump |
| 5 | Static Mixer |
| 6 | Washing water interception valve |
| 7 | Thickened Sludge Pump(optional) |
| 8 | Washing Water |
| 9 | Clean Water |
| 10 | Filtrate to the head of plant |
| 11 | Thickened Sludge Discharge |

SCRUDRAIN TIPO/TYPE AD04D

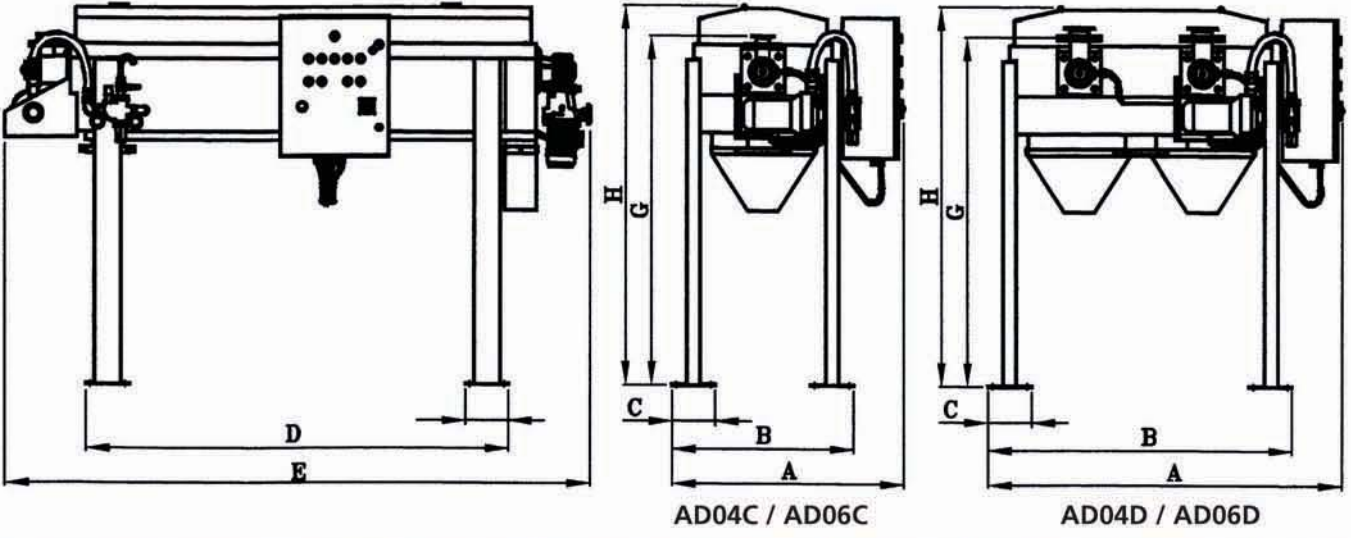


Fango addensato
Thickened sludge

Filtrato - Filtrate



Disegno tecnico / Technical drawing



| SCRUDRAIN Tipo/Type | A | B | C | D | E | G | H |
|---------------------|------|------|-----|------|------|------|------|
| AD 04 C | 1040 | 840 | 200 | 1956 | 2707 | 1613 | 1760 |
| AD 04 D | 1640 | 1407 | 200 | 1956 | 2707 | 1613 | 1760 |
| AD 06 C | 1240 | 1040 | 200 | 2032 | 2835 | 1592 | 1820 |
| AD 06 D | 2050 | 1820 | 200 | 2032 | 2835 | 1592 | 1820 |

Le dimensioni sono puramente indicative e soggette a variazioni senza preavviso.
 Dimensions are indicative only and subject to change without notice.

* Tutte le misure sono in mm
 * All dimensions are in mm

Dati tecnici / Technical data

| SCRUDRAIN TIPO / TYPE | AD04C | AD06C | AD04D | AD06D |
|---|--------------|--------------|--------------|--------------|
| Coclea / Archimedian screw | N°1 Ø 400 mm | N°1 Ø 600 mm | N°2 Ø 400 mm | N°2 Ø 600 mm |
| Portata max m³/h / Flow max m³/h* | 10 - 20 | 15 - 30 | 20 - 40 | 30 - 60 |
| Addensatore (kW) / Thickener drive (kW) | 0,35 | 0,75 | 0,7 | 1,5 |
| Pompa lavaggio (kW) / Wash pump (kW) | 2,2 | 2,2 | 2,2 | 2,2 |
| Peso (Kg) / Weight (Kg.) | 350 | 450 | 550 | 800 |

* La portata massima dipende dal tipo di fango e dalla concentrazione di S.S.
 * Max flow depends on the type of sludge and concentration of D.S.

Le nostre apparecchiature sono costruite in accordo alle normative CE
 Our equipments is made to comply with the CE European standard



Teknofanghi

Sistemi per la disidratazione fanghi
 Sludge Dewatering Equipment

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