

Water clarification and sludge dehydration plant

model

SUPER COMPACT 2.1

capacity 150 litres per minute

Dal Prete Engineering S.r.l.

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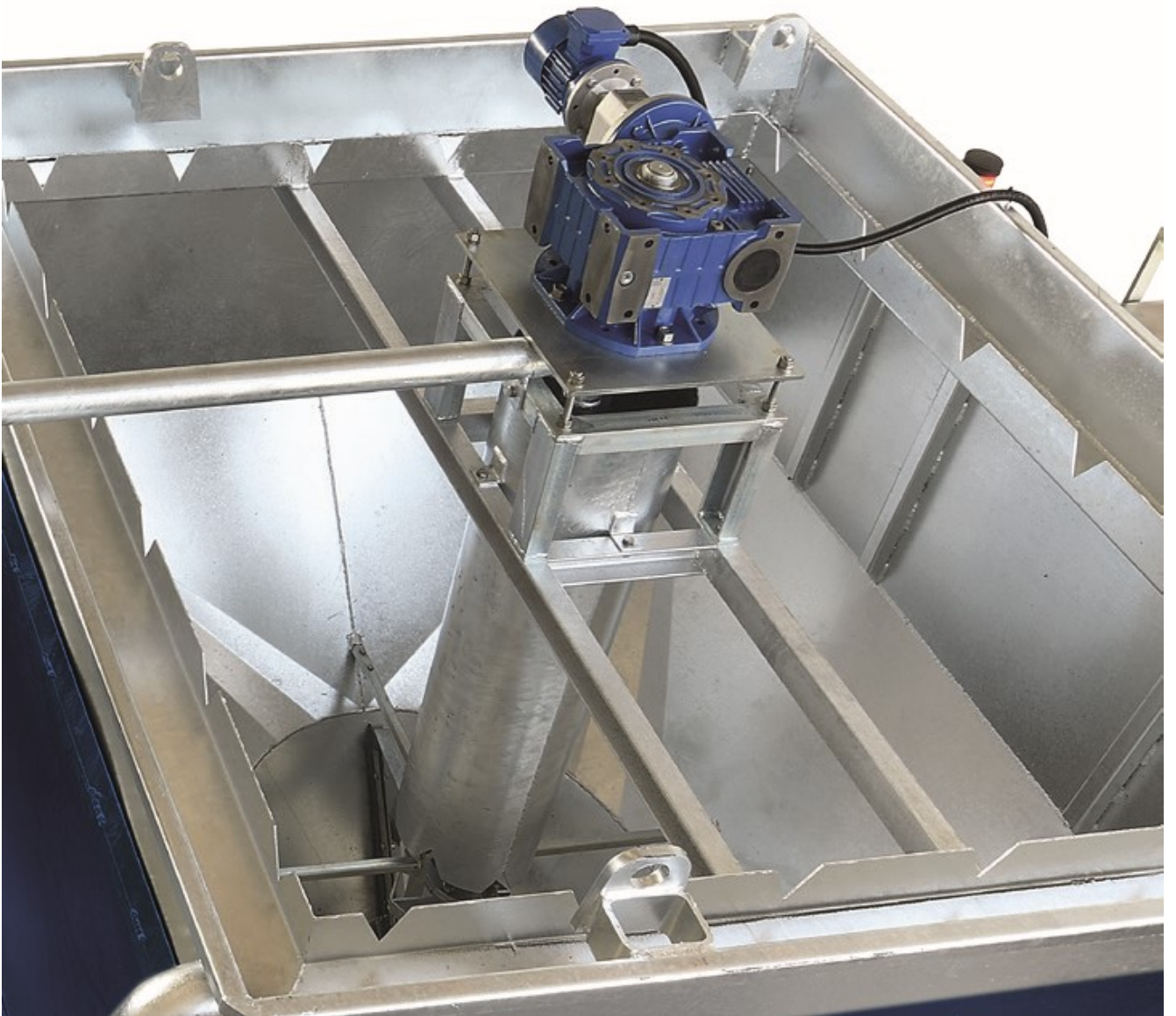
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Technical description of the water treatment plant components

N° 1 DIRTY WATER LIFTING STATION

Consists of:

- Under water pump type MC 15/50 with following technical details:

Description	m.u.	Value
Capacity	[l/min]	100-800
Prevalence	[meters]	14 - 3
Motor power	[kw]	1,5
Voltage	[V]	400
Frequency	[Hz]	50
Ø feeding	[inch]	2 ½

- Level sensor type T80/5

N° 1 COAGULANT AUTOMATIC DOSING STATION

Consists of:

- Polyethylene tank with [l] 108 capacity equipped with AISI 304 stainless steel mixer;
- Dosing electric pump model DLXB MA/MB with a capacity of lt/h 5-8.

N° 1 FLOCCULANT MAKING AND DOSING STATION

Consists of:

- Polyethylene tank with [l] 108 capacity;
- Dosing electro pump model DLXB MA/MB with a capacity of lt/h 5-8;
- Electro mixer with shaft and blades in stainless steel AISI 304 and [kW] 0.18 motor.

N° 1 SLUDGE STORAGE AND FILTERPRESS FEEDING STATION

Consists of:

- Sludge storage tank with [cm] 4.1 capacity complete with slow mixing device;
- VERSAMATIC pneumatic pump type E4 for filterpress feeding with the following technical details:

Description	m.u.	Value
Membrane	[material]	Neoprene
Body	[material]	Aluminium
Ø suction	[inch]	1 ½"
Ø feeding	[inch]	1 ¼"

- Automatic line discharge

N° 1 SLUDGE DISCHARGE DEVICE

Consists of:

- Manual rolling shutter type DN 65 (internal screw);
- Manual system to prevent cone clogging using air compressed;
- Sleeve valve type OV normally closed, with double cylinder and body in aluminium, with the following details:

Description	m.u.	Value
Ø pipe	[mm]	65
Flange	[type]	DN65 PN10
Sleeve	[material]	Para rubber

N° 1 FILTERING PRESS STATION

Consists of:

Automatic filterpress type AS300/4P with plates simultaneous opening consists of:

- N°1 zinc plated electro-welded main framework housing N°4 filtering plates;
- N°2 main plates supporters;
- N°4 concamerate plates. Dimensions [mm] 300x300 thickness 50, each one with volume of [l] 3;
- N°4 rilsan material filtering clothes;
- N°1 plates shaking pneumatic device;
- N°1 cylinder for plates closing/opening completed with hydraulic station;
- N°1 stainless steel channel to collect the water from the sludge complete with level sensor and cycle end;
- N°1 mobile inox steel protection proof.

N° 1 CONSOLE AND CONTROL STATION

Consists of:

- N°1 control main board (AUT/MAN) for all the installed accessories;
- PLC for automatic control of all the accessories;
- Big Colour TOUCH-SCREEN to change working parameters with automatic errors testing and problems alarms.

Accessories on request

Code	Description	Picture	notes												
M-1	<p>AIR COMPRESSED STATION</p> <p>Consist of</p> <ul style="list-style-type: none"> - Low noise station CS 55T DGM having the following technical details: <table border="1" data-bbox="347 680 751 864"> <thead> <tr> <th>Description</th> <th>m.u.</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Power</td> <td>[Kw]</td> <td>4</td> </tr> <tr> <td>Suction</td> <td>[l]</td> <td>626</td> </tr> <tr> <td>Pressure</td> <td>[Bar]</td> <td>10</td> </tr> </tbody> </table> <ul style="list-style-type: none"> - Vertical tank SV 300 DGM 	Description	m.u.	Value	Power	[Kw]	4	Suction	[l]	626	Pressure	[Bar]	10		
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Power	[Kw]	4													
Suction	[l]	626													
Pressure	[Bar]	10													
M-2	<p>DEHYDRATED SLUDGE TANK</p> <p>Consisting of:</p> <ul style="list-style-type: none"> - Tilting and liftable small container. Volume capacity [cm] 0.87 		It is a tank to allow easy discharging operations												
M-3	UNDERWATER PUMP SAFETY CAGE		It avoid that big pieces go inside the pump and damage it												
	CLARIFIED WATER PUMP														
	INVERTER FOR CLARIFIED WATER PUMP														
	OVER GROUND CONICAL WASTE WATER COLLECTION TANK 2.5 M ³														
	CLARIFIED WATER TANK ABOUT' LT 2000														
	CLARIFIED WATER TANK ABOUT LT 3000														

M-7A	<p>SUPER COMPACT SPARE PARTS SET</p> <ul style="list-style-type: none"> - Underwater pump spare parts set - Sleeve discharge valve - Feeding pump spare parts - Clothes and underclothes set 		
M-8A	1 YEAR WARRANTY EXTENSION		
M-9	INTERMEDIATE ANIONIC FLOCCULANT KG 25 BAG		