

**COMPACT PRETREATMENT PLANT - HELICAL SCREW SIEVE**  
**REF: PPC-TAHEL AND PPC-TAHEL-D**

Automatic pre-treatment plant to remove grease and fine solids. Composed of an automatic fine solids screening, ref: TA-HEL-S and an automatic grease separator, ref: PSG. Two versions are available: sand removal using system Air Lift (**ref: PPC-TAHEL**) or automatic endless screw for sand removal (**ref: PPC-TAHEL-D**).

**Application:**

- Fine solid removal with size equal or superior to 3 mm, dehydration and waste compaction system.
- Removal of sand and coarse solids.
- Removal of oil and grease.

**Characteristics:**

- Plant for sand and grease removal, **ref: PPC-TAHEL or PPC-TAHEL-D**, SALHER brand.  
Composed of:
  - Fine solids removal system by automatic screening system ref: TA-HEL-S, SALHER brand. Manufactured in AISI 304 stainless steel, highly erosion-resistant, clean and polished weldings. With dehydration and waste compaction system.
  - Grease removal system consisting of an automatic grease separator, ref: PSG.
    - System for separation, storage and concentration of sand and coarse solids.
    - System for oil and grease flotation through blower and diffusers grid.
    - Automatic system for oil and grease removal through surface scrapers.
    - Sand removal system (2 possibilities):
      - Air Lift system (**ref: PPC - TAHEL**)
      - Automatic helical screw sieve for sand removal. (**ref: PPC-TAHEL-D**)

REF: PPC-TAHEL



REF: PPC-TAHEL-D



**PRETREATMENT COMPACT PLANT- HELICAL SCREW SIEVE**  
**REF: PPC-TAHEL AND PPC-TAHEL-D**

SCREENING SYSTEM

- Screw sieve with solid compaction mounted on structure. Provided with automatic cleaning in screening and compaction areas through electrovalve and spray nozzles.

SAND SETTLING SYSTEM

- Tank manufactured in GFRP with a particular design facilitating the settling by gravity of fine solids in the deepest area of the equipment. Oxygen injection by fine bubbles that favour the oil, grease and floating particles rise.

GREASE SEPARATOR SYSTEM

- Floating removal system through the continuous dragging movement of scrapers.

SAND COLLECTION SYSTEM BY AIRLIFT

- Sand removal system based on the Venturi effect, by which a depression inside the pipe is generated, creating a vertical water flow to drag settled sands. Optional: dehydrator type FILSA.

SAND COLLECTION SYSTEM BY ENDLESS SCREW

- Sand removal by highly resistant steel endless screw and AISI 304 stainless steel structure.

**NOTES:**

- Pretreatment is primarily designed for typical urban wastewater. For industrial discharges or other uses, please consult and wait for use validation.
- Equipments are supplied in disassembled modules for easy transport on standard maritime containers.

MODEL	MAXIMUM FLOW [m³/h]	SCREENING SYSTEM	MESH OPENING [mm]	MATERIAL PPC/SIEVE
PPC1-TA-HEL	11.0	TA-HEL-S 200SP	6	GFRP / AISI 304
PPC 2-TA-HEL	22.0	TA-HEL-S 200SP	6	GFRP/AISI 304
PPC 3-TA-HEL	44.0	TA-HEL-S 200SP	6	GFRP/AISI 304
PPC 4-TA-HEL	88.0	TA-HEL-S 200	6	GFRP/AISI 304
PPC 5-TA-HEL	130.0	TA-HEL-S 400	6	GFRP/AISI 304
PPC 6-TA-HEL	173.0	TA-HEL-S 400	6	GFRP/AISI 304

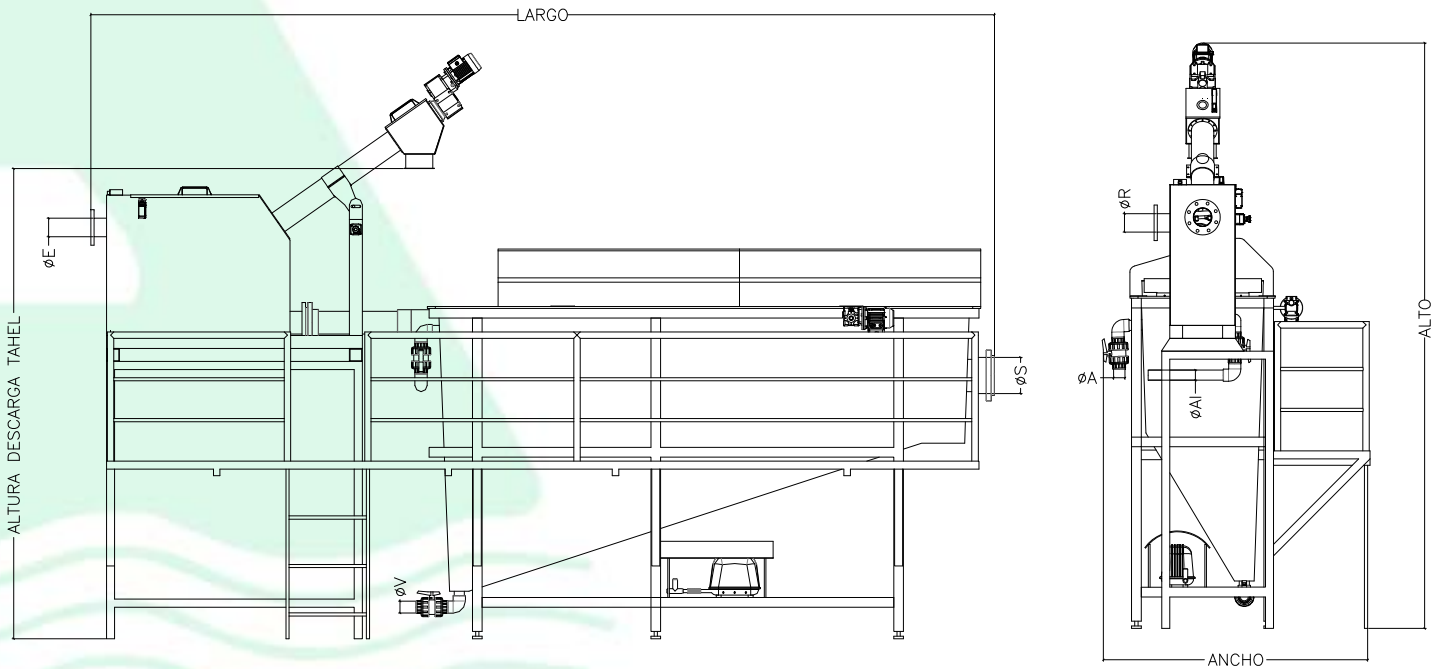
**NOTES:**

- Maximum flows for urban wastewater.
- Fine solids screening set for mesh opening of 6 mm, for different dimensions, please consult Salher.

**REF: PPC-TAHEL**

With Air Lift system for sand removal.

TECHNICAL DATA



MODEL	LENGTH [mm]	WIDTH [mm]	HEIGHT(mm)	TAHEL DISCHARGE HEIGHT [mm]
PPC 1-TA-HEL	5620	1720	3630	2920
PPC 2-TA-HEL	6120	1720	3630	2920
PPC 3-TA-HEL	6560	2120	4250	3540
PPC 4-TA-HEL	8560	2120	4670	3540
PPC 5-TA-HEL	9960	2120	4670	3690
PPC 6-TA-HEL	10500	2120	4670	3690

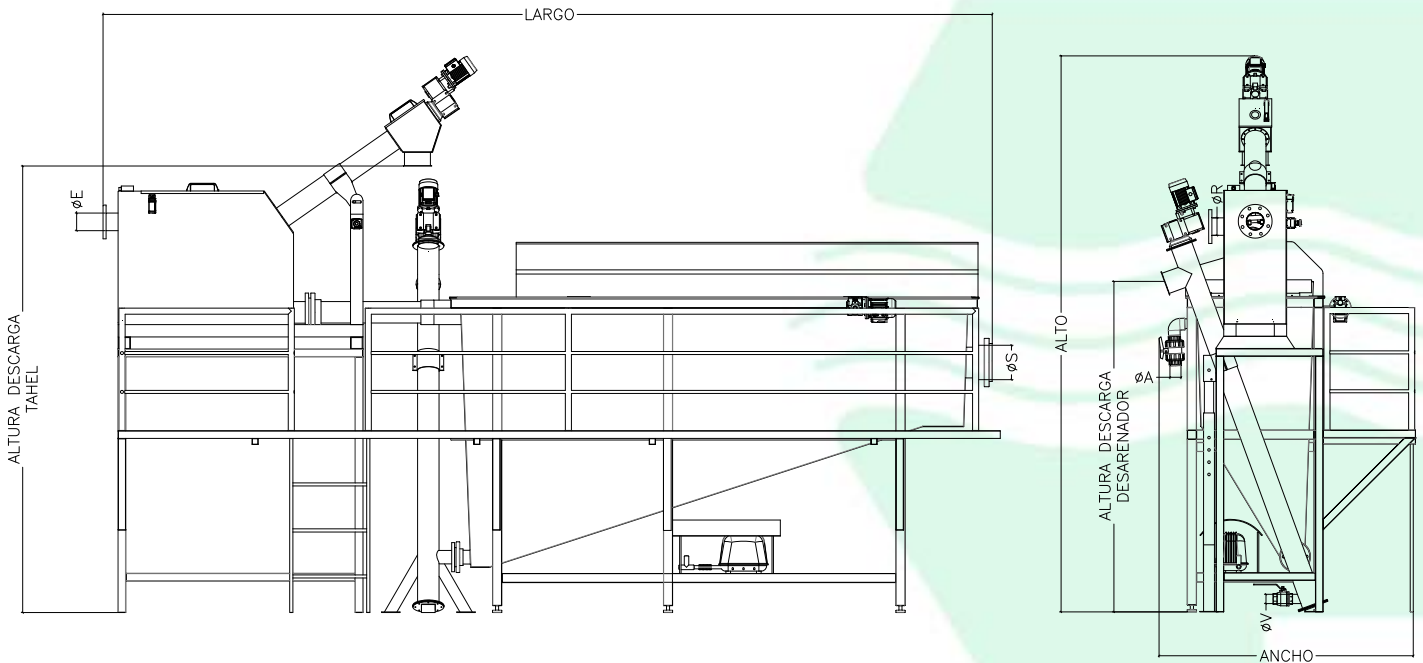
\* All dimensions are in mm

HYDRAULIC CONNECTIONS

MODEL	□E	□R	□S	□V	□A	□AI
PPC 1-TA-HEL	DN 100	DN 100	DN 200	2"	2"	2"
PPC 2-TA-HEL	DN 100	DN 100	DN 200	2"	2"	2"
PPC 3-TA-HEL	DN 100	DN 100	DN 200	2"	2"	2"
PPC 4-TA-HEL	DN 200	DN 125	DN 250	2"	2"	2"
PPC 5-TA-HEL	DN 250	DN 250	DN 300	2"	2"	2"
PPC 6-TA-HEL	DN 250	DN 250	DN 300	2"	2"	2"

**REF: PPC-TAHEL-D**

With endless screw for sand removal.

**TECHNICAL DATA**

MODEL	LENGTH [mm]	WIDTH [mm]	HEIGHT(mm)	TAHEL DISCHARGE HEIGHT [mm]	HEIGHT OF SAND DISCHARGE [mm]
PPC 1-TA-HEL-D	5780	1720	3630	2920	2200
PPC 2-TA-HEL-D	6320	1720	3630	2920	2200
PPC 3-TA-HEL-D	6760	2120	4250	3540	2200
PPC 4-TA-HEL-D	8760	2120	4670	3540	2200
PPC 5-TA-HEL-D	10160	2120	4670	3690	2200
PPC 6-TA-HEL-D	10700	2120	4670	3690	2200

\* All dimensions in mm

**HYDRAULIC CONNECTIONS**

MODEL	□E	□R	□S	□V	□A
PPC 1-TA-HEL-D	DN 100	DN 100	DN 200	2"	2"
PPC 2-TA-HEL-D	DN 100	DN 100	DN 200	2"	2"
PPC 3-TA-HEL-D	DN 100	DN 100	DN 200	2"	2"
PPC 4-TA-HEL-D	DN 200	DN 125	DN 250	2"	2"
PPC 5-TA-HEL-D	DN 250	DN 250	DN 300	2"	2"
PPC 6-TA-HEL-D	DN 250	DN 250	DN 300	2"	2"