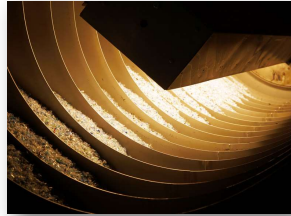


EREMA Recycling plant RGA 160 TE-VSV - (year 2001)

IRD Material drying system

Continuous heating, crystallization and drying of a wide variety of plastics and other bulk materials.



(1) Double gate pneumatic slider with vacuum slice

in vacuum tight execution and vacuum slice including feeding hopper with automatic feeding control. Cutter densifier hood including all necessary auxiliaries and armatures in vacuum tight execution.

(1) High-performance vacuum system for cutter compactor for special cleaning effect consisting of:

Vacuum pump system including all necessary piping as well as digital vacuum display on the control cabinet for vacuum of 1 0 mb approx.
2 liquid cooled condensate tanks in parallel arrangement, each with separate stop cocks for maintenance (cleaning) during continuous operation.

The pumps included are 3 pumps of the following characteristics:

- 1 VH 600 - 18,5 kW water rings
- 1 VH 4000 m³/h- 11 kW Root pump
- 1VH1200 m³/h- 4 kW Root pump



(1) RM Combination RM 160 TE VSV

Vacuum cutter compactor/pre-drier combination with vacuum operated cutter densifier and with double vented extruder cylinder
Patented design in its execution.

Mounted-on control cabinet completely Wired including all instruments required for switching, controlling and indicating.

Vacuum cutter compactor/ pre-drier power, reinforced.

Speed variation of the motor of 110 KW with frequency inverter.

Enlarged cutter compactor tank volume with agitating device. Cutter compactor/pre-drier tank of stainless
Steel, incl. inspection glass with light and wiper.

Modified cutter-densifier bearing system with el o sed oil circuit for sealing of rotor shaft as well as connection densifier drum-
extruder and manhole in vacuum-tight execution.

Extruder power - frequency controlled --> 200 KW AC
Screw diameter --> 160 mm
effective screw length --> 5483 mm
Screw speed, variable --> up to 90 rpm
Heating capacity cylinder --> 68,2 KW
Heating zones cylinder --> 5 zones
Heating capacity adapter --> 5 KW
Heating zone adapter --> 1

Bimetal-extruder-cylinder in resistant execution
Extruder screw land clad and nitrided
Double-vented cylinder,
Supported by high performance vacuum pump
Vacuum sealed screw bearing system
Extruder-cylinder liquid cooled



(1) Shock sensor - vibration meter (incl. evaluation device)

Protection system for cutting tools in cutter densifier and extruder against hard contamination.
Automatic "Stop" of complete plant in case solid foreign matter exceeding a certain size is entrained into the cutter compactor.
Sensitivity adjustable.

(1) Temperature control valve (to save cooling water)

for liquid cooled extruder-cylinder

(1) Input slider - electrical driven

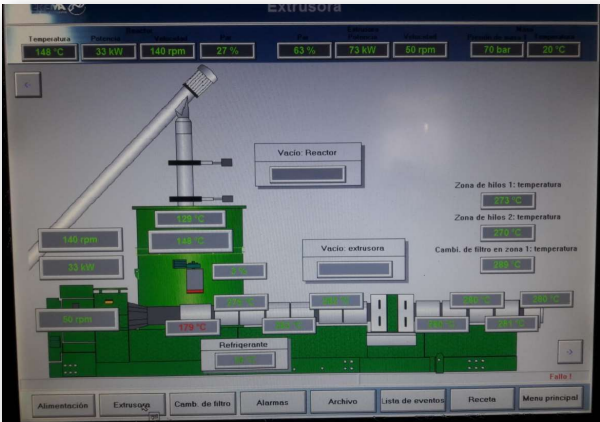
Installed on the infeed-opening of the cylinder for processing of grinded material and agglomerate

(1) Melt pressure indicator

Consisting of pressure sensor, connecting cable and indicator with digital display in bar.
Measuring range (0-500 bar)
2 limit contacts for alarm or backflush triggering (adjustable) and for plant shut-down (factory-adjusted)

(1) Melt temperature indicator

Consisting of temperature probe, connecting cable and digital display.
Temperature indicated in °C or °F.
Indicator completely installed in control Cabinet, wired and mounted.



(1) High-performance vacuum system for extruder consisting of:

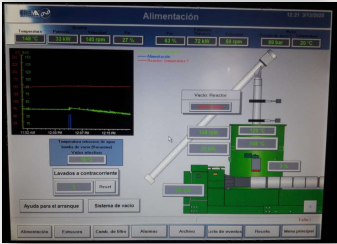
Vacuum pump system including digital vacuum display on the control cabinet for vacuum of 2 mb approx.
2 water-cooled condensate tanks in parallel arrangement, each with separate stop cocks for maintenance (cleaning) during continuous operation.

The vacuum pumps included are two with the following characteristics:

- 1 VH 400 - 15 kW - water ring
- 1VH1200 m3/h-4 kW - root pump



(1) Touch screen control system with PLC Siemens and PC



Closed circuit for operating water of vacuum pump consisting of:

Water tank --> 1000 litres
Screening system --> fine separation 100 µ
Circulation pump
Heat exchanger
Fresh water supply with level sensor R3/4"

(1) Screen changer SW 8/170 RTF with partial backflush system, divided version

maximum filter-capacity by optimal self-cleaning with low pressure-differences.

Patented design in its execution. Hydraulically Operated eightfold filter with fully automatic, pressure controlled partial backflush system.

Self cleaning system:

87,5% of the total sdeen areas (7 screens) remain in active filtration at a time, while 12,5% of the total screen area (1 screen) at a time is being backflushed (cleaned).

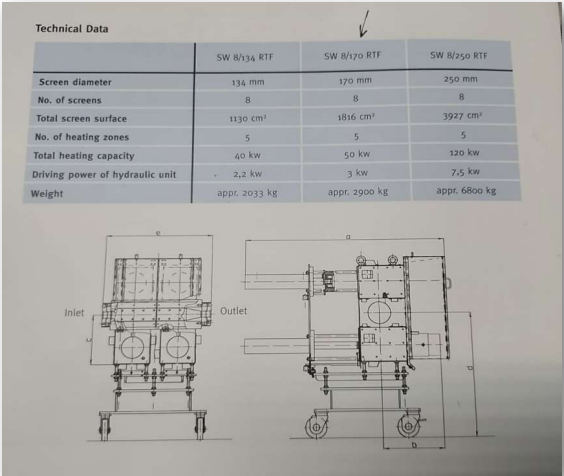
Backflush counting device. The partial backflush system reduces the screen costs by as much as 90%, dependent on the degree of utilization and is minimizing pressure variations during the cleaning process.

The symmetrical configuration of two fil ter screens per piston precludes a non-uniform wear of the piston, moreover, the filter surface is doubled.

The configuration of four pistons allows to replace the filter screens during operation without interrupting the production.

Screen diameter --> 8 x 170 mm
Screen surface total --> 1816 cm2
Heating capacity --> 47,6 KW
Heating zones --> 10
Admissible melt pressure --> max. 400 bar
Power - hydraulic unit --> 3 KW

Block and filter cartridge are made of superior Nitriding steel and are long-term nitrided



(1) Extruder die 48/5-T-form
Gavourable flow, self cleaning
No. of strands (48)
Made of tempering steel, nitrided
Heating capacity (6,5 KW)



Previero pelletizer and vibrating screen.
Cutting and screening system.

