Universal Cleaner F 12 / P 12

PETKUS F 12 and **P 12** Universal Cleaners are tried and tested and used for the high quality cleaning of cereals, legumes, and above all, grass and fine seeds. The compact air-screen cleaner can be used for pre or intensive cleaning, as well as for seed cleaning. Within a specific technological process the cleaners can also be set up in series.
The P 12 Cleaner is the cleaner of choice for mobile seed cleaning plants due to its compact, low vibration design. The cleaner is fitted with a standard screen set up consisting of two screen compartments and three screen layers with ball cleaning. Conversely, the F 12 features a variable screen configuration, in which the middle screen can be arranged in two different constellations. The bottom screen is cleaned by brush.

Advantages:

- High flexibility through variable screen diagrams and extensive setting options
- High cleaning capacity and quality
- Also suitable for the grading of fine seeds
- Low mass imbalance due to separate screen compartments, therefore also suitable for mobile systems
- Highly efficient screen cleaning through ball cleaning and scraper chain
- Only the F 12:
  - Bottom screens can be run in sequence or parallel
  - Brush cleaning ensures screen efficiency independent of motor speed

Description:

The in-feed consists of a weight-loaded cylindrical roller. For poor flowing products, one can opt to use a pin drum. This in-feed guarantees a broad and uniform dispersion over the complete screen surface independent of the product and capacity. In the air-separator light dust particles are separated and then deposited into the discharge chamber and removed via a screw auger.
The separation of coarse or large particles is carried out by the upper screen. Smaller particles and impurities are separated with the middle and bottom screens. In the P 12, the middle and bottom screens are arranged in parallel. In the F 12, with the help of an additional sliding floor and product flow distributor, the bottom screens can be arranged either in parallel or sequentially. Arranged sequentially, the middle screen acts as a relief screen for the bottom separation screen. The overflow then reaches the PETKUS dual channel final air separator, which has an adjustable supply flap. This flap allows for an optimal separation effect. For both cleaners a combined cleaning method via ball and scraper chain is used to clean the upper screen. The bottom screens of the P 12 are also cleaned by the ball method whereas the bottom screen of the F 12 uses brush cleaning, which regardless of the motor speed, ensures optimal screen efficiency.

Construction:

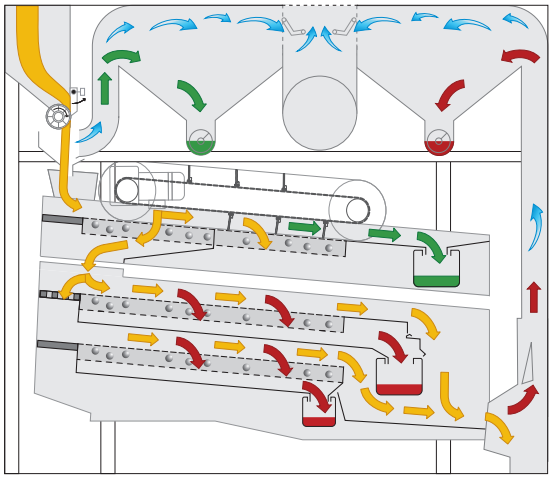
The PETKUS F 12 and P 12 cleaners are equipped with an inlet hopper, a pre and final air separation, with depositing chambers and discharge auger as well as two counter vibrating screen compartments. The various components of the machine (inlet hopper, discharge auger, scraper chain, etc.) are operated by drive motors.

Standard Equipment:

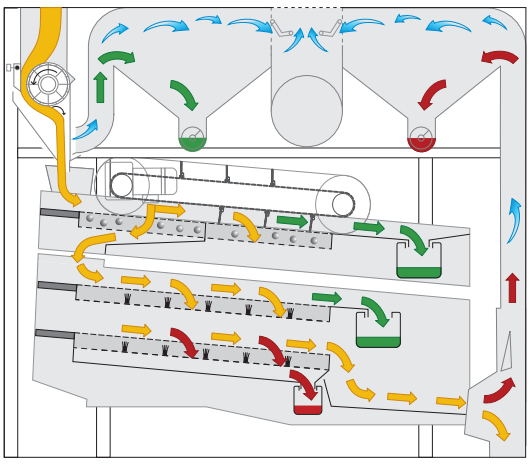
- Compact, closed and bolted frame made of painted sheet steel
- Screen compartments, pre-aspiration and final aspiration made of galvanized sheet steel
- Set of screens for corresponding screening diagram
- Individual drive units with gear motors

Options:

- Broad range of screens for all types of crops
- Pin drum in-feed
- Aspiration connection



Seed cleaning for grain



Seed cleaning for fine seed

1-30-1/2 08-2015

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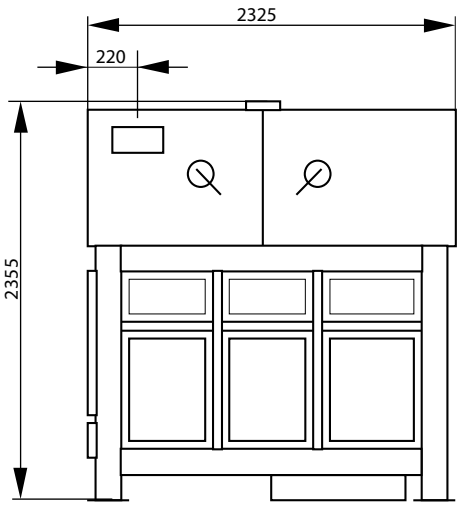

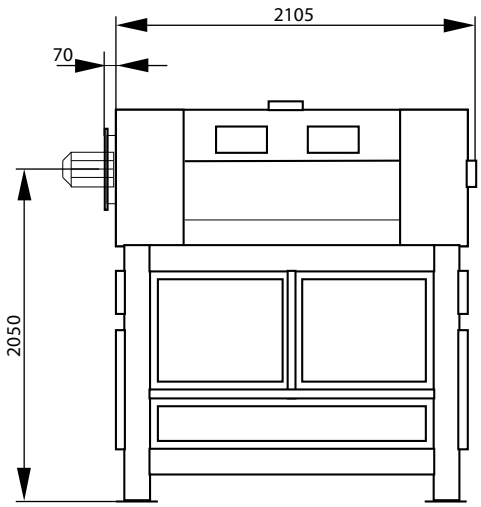

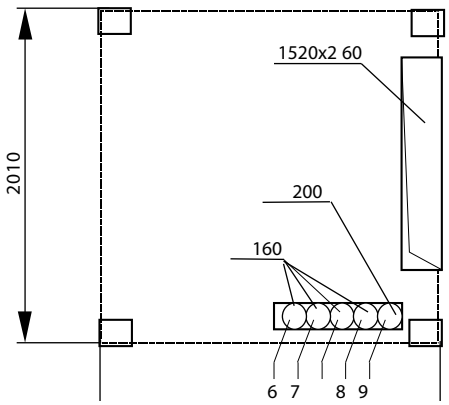

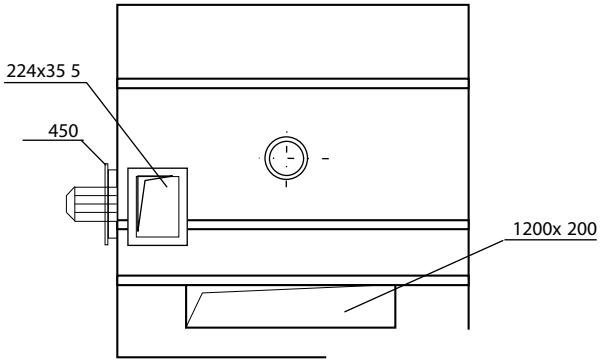

Technical Data		F 12 / P 12
Capacity (Based on: wheat)		
Pre-cleaning	t/h	60
Seed cleaning	t/h	6
Intensive cleaning	t/h	25
Capacity (Based on: Italian Rye Grass)		
Pre-cleaning	t/h	4
Seed cleaning	t/h	1
Length	mm	2 325
Width	mm	2 350
Height	mm	2 355
Weight	kg	1 750
Electrical power, without fan	kW	1.1 / 0.37
Volume with built in fan	m^3	12.86
Volume with built in fan, rail or road transport	m^3	16

Technical Data		F 12 / P 12
Working width	mm	1 200
No. of screen layers	pcs.	3
Inclination of the upper screen	°	5
Inclination of the middle/lower screen	°	7
Screen area, total	m^2	5.04
Fan	kW	5.5 - 11.0
Contact surface area	cm^2	1 014
Static ground pressure	kN/m^2	187
Revolution	Hz	5.3 / 5.7
Horizontal dynamic load	kN	0.5
Vertical dynamic load in f	kN	1.3

Technical changes reserved.

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