Cimbria Combi Cleaner type 159.1 has been developed for the high capacity pre-cleaning of grain, peas and rape seed and Industrial cleaning as grain for milling or malting barley. The machine’s large screen area with its accurately matched stroke and frequency is complemented by Cimbria’s highly efficient recirculation pre- and after suction system.

1. **Inlet**
   Optimal feeding in the full width of the machine is achieved by a shaker feeder with step-less speed adjustment.

2. **Pre Suction with Air Recirculation**
   A precise adjustable airflow from the systems full width impeller removes dust and fines from the incoming product and discharge it in the screw conveyor outlet and mini cyclone. 800 m³/h of air has to go to the central aspiration system.

3. **Pre suction Air Velocity**
   can be adjusted to the specific product

4. **Screens**
   (L x W = 0.8 x 1250 mm) can all be used as sifting or scalping screens. There is one outlet per Screen and that allows the most efficient flow diagram to be chosen.

5. **Eccentric Drive System for Screen Boats**
   Is delivered with fixed speed.

6. **Drive-Boss** suspension system for the screen shoes guarantees a well-balanced performance and with its oscillating screen movement results in the sharpest possible separation.

7. **After Suction with Air Recirculation**
   A precise adjustable airflow from the systems full width impeller, removes light particles from the product flow before it leaves the machine. The lights are lifted to the screw conveyor outlet and mini cyclone. 800 m³/h of air has to go to the central aspiration system.

8. **After suction Air Velocity**
   can be adjusted to the specific product

9. **Adjustment** of air quantity for pre- and after suction.

10. **Central Aspiration connection**
    for negative pressure inside the machine: 2.000 m³/h.

11. **Adjustment**
    Remote control of integral motor for shaker feeder, pre suction, after suction and air velocity. The adjustment of the above is placed in a small control box, which is placed on the cleaner.

### Pre cleaning capacity: (max. 20% moisture content)
- Wheat, barley, rye, sorghum: 200 t/h
- Peas, maize, soy bean: 180 t/h
- Paddy rice: 80 t/h

### Pre cleaning: (max. 15% moisture content)
- Wheat: 250 t/h

### Industrial cleaning capacity may vary on specific demands and conditions (max 15% moisture content)
- Wheat, maize, barley, soya, rye, sorghum: 160 t/h
- Rape seed, 98% purity: 80 t/h
- Paddy rice: 40 t/h
- Peas: 100 t/h
- Malting Barley, white rice: 45 t/h

### Dimensions:
- Machine total height (including inlet hopper): 5.085 mm
- Machine height: 4.630 mm
- Machine length: 4.315 mm
- Machine width: 2.420 mm
- Screen area: 24 m²
- Square outlet Q-pipes: 200 x 200 & 240 x 240 mm

### Motors: (standard)
- Screens: 3.0 kW
- 1 fan pre: 3.0 kW
- 1 fan post: 4.0 kW
- Shaker feeder: 1.5 kW

### Air volume:
- Internal air volume (pre- and after suction): 16.000 m³/H
- External suction (60 mm WG): 3.600 m³/H

### Total weight of the cleaner:
- 8.225 kg

### Freight volume:
- 75 m³

### Dynamic loading at
- PH= +/- 1320 N
- PV= +/- 3760 N
- 10 N = 1 kg

The technical data can vary sometimes because of redevelopment of the machine or another combination of the machine.

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