

PDA - Vacuum Deaerator

Introduction:

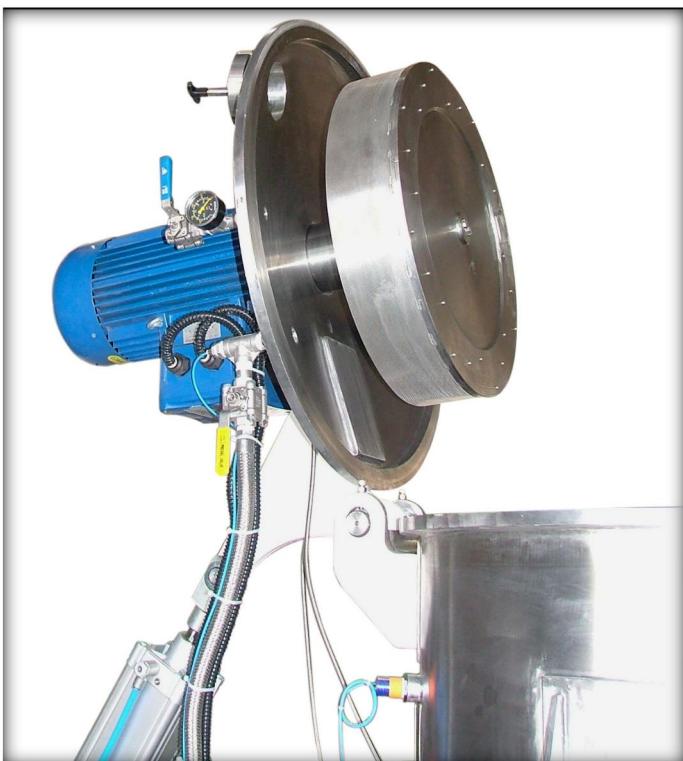


The PerMix PDA series Vacuum Deaerator is a totally compact sanitary device designed for the continuous automatic removal of air or other occluded gases from any type of liquid or paste, by means of vacuum.

Processing of liquid products often incorporates air and unwanted gases into the product. These gases normally cause problems such as oxidation, discoloration, inconsistency, bad smell and filling difficulties.

How It Works:

The PerMix PDA series Vacuum Deaerator operating principle comprises the formation of a fine layer of product, distributed in a thin layer on a centrifugal disc with a sieve. It is then sprinkled by means of a screening frame into a vacuum chamber, depending on the viscosity, speed and design of the distributor plate.



As a result of the vacuum effect, the air bubbles are burst and the deaerated product is discharged through the lower part by means of a positive displacement Mono or other type of pump.

Available Options:



The PerMix PDA series Vacuum Deaerator has a lot of optional features available including:

- Fully automated for "stand alone" operation
- Explosion-proof construction
- Speed of distributor plate infinitely adjustable
- Special level control for sensitive products

- Various vacuum systems available
- Higher pressure discharge pump
- Sanitary designs
- Jacket for heating or cooling
- Special materials of construction
- Portable design/on casters

Applications:

The PerMix PDA series Vacuum Deaerator can handle numerous processes including (but not limited) the manufacture of food products, cosmetics and chemicals amongst others, need to avoid air oxidation to ensure a correct preservation or application. End products can be mentioned, such as sauces, fruit pulp, cosmetic creams, syrups, PVC dispersions, lubricants, car polish, shower gels, paraffin and penicillin emulsions, ice creams, adhesives, etc.

Specifications:

| Model | Working Volume (liter) | Flowrate with light liquid (liter/h) | Flowrate with viscous product (liter/h) | Flowrate with highly viscous product (liter/h) | Total power (kW) (*) | L (mm) | W (mm) | H (mm) | H1, with open lid (mm) | Weight (kg) |
|----------|------------------------|--------------------------------------|---|--|----------------------|--------|--------|--------|------------------------|-------------|
| PDA-25 | 25 | 1,500 | 900 | 300 | 2.6 | 1,640 | 550 | 1,650 | 1,750 | 470 |
| PDA-65 | 65 | 4,000 | 2,500 | 800 | 5.2 | 1,855 | 715 | 1,780 | 2,200 | 690 |
| PDA-125 | 125 | 8,000 | 5,000 | 1,600 | 8.9 | 2,165 | 850 | 2,170 | 2,500 | 920 |
| PDA-300 | 300 | 15,000 | 9,000 | 3,000 | 16.7 | 2,455 | 1,080 | 2,590 | 3,000 | 1,300 |
| PDA-550 | 550 | 20,000 | 12,500 | 4,000 | 28 | 2,845 | 1,225 | 2,865 | 3,300 | 1,550 |
| PDA-1200 | 1,200 | 30,000 | 18,000 | 6,000 | 40.5 | 3,455 | 1,850 | 3,675 | 4,180 | 2,180 |

- 1) **Total power (kW) (*)** includes all the motors of the machine, e.g. distribution disc, vacuum pump, discharge pump and screw piston.
- 2) All specifications and illustrations are as accurate as is reasonably possible, but they are not binding.
- 3) PerMix reserves the right to modify the design without notice.

Gallery:



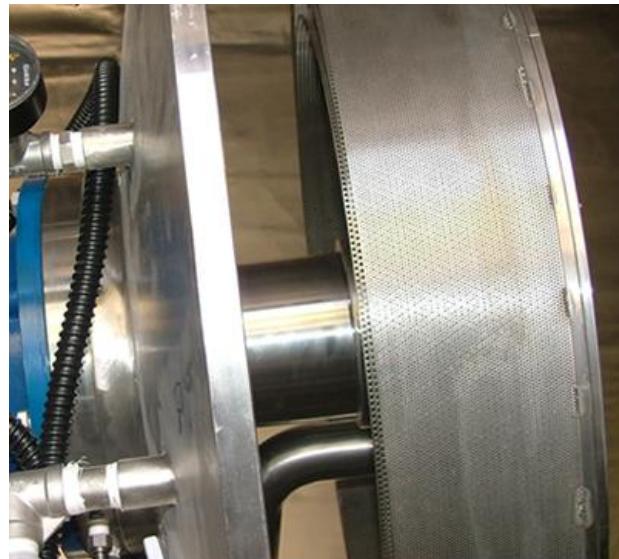
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