LOW-TEMPERATURE VACUUM FRYERS

# QS-VF300 Industrial Vacuum Frying Line

The QS-VF300 is a full vacuum frying production line built around a Ø1600 mm fryer tank. A vacuum pump plus Roots booster, 18 m² steam heater, gear-pump oil circulation with filtration and an 11 kW de-oiling drive process 300 kg of raw material per batch in 40–60 minutes.

| 300 kg / batch | 300 kg | 1 unit |
|---|---|---|
| CAPACITY | RAW PER BATCH | MINIMUM ORDER |







## Key features

- **Roots-boosted vacuum.** An 11 kW vacuum pump with a 3 kW Roots booster pulls down fast at batch start for shorter cycles.
- **Continuous oil care.** Gear-pump hot-oil circulation, inline filter and low-level oil tank keep oil clean and temperature stable.
- **Heavy-duty de-oiling.** 11 kW variable-frequency drive spins Ø1300 × 600 mm baskets to 15–20% oil content.
- **Line, not a machine.** Includes operating platform and feeding machine for ergonomic loading and unloading.

## Technical specifications

| | |
|---|---|
| Model | QS-VF300 |
| Raw material per batch | 300 kg (sweet potato basis) |
| Finished output per batch | 100–200 kg |

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| Cycle time | 40–60 min |
| Ultimate vacuum | −0.092 to −0.096 MPa |
| Oil temperature | 80–100 °C |
| Heating | Steam coil · 250 kg/h · 0.4–0.8 MPa |
| Compressed air | 0.5–0.8 MPa |
| De-oiling speed | 100–750 rpm (11 kW variable frequency) |
| Final oil content | 15–20% |
| Cooling water | 40 t/h |
| Power supply | 380 V / 220 V |
| Fryer tank | 2600 mm (H) × Ø1600 mm; 6 mm SS inner, 50 mm insulation, 2 mm SS outer |
| Condenser | 12 m² effective area; 4 kW pump, 25 t/h |
| Baskets | 2 pcs · Ø1300 × 600 mm, 4 mm perforations |
| Steam heater | 18 m² effective heating area |
| Vacuum system | 11 kW vacuum pump + 3 kW Roots pump |
| Oil circulation | 4 kW gear pump, filter, insulated low-level SS oil tank (t = 4 mm) |
| Included | Oil-gas separator, operating platform, feeding machine, PLC + HMI control cabinet |

Standard configuration; final values are confirmed in the quotation. Voltage, heating source and layout can be customised.

## Applications

Industrial chip plants · Co-packers · Export snack brands

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