

Technical Specification

Type: Fat Melting Plant

FPE's Fat Melting Plant is the culmination of many years development and knowledge in processing and refining animal by-products.

The plant is designed to process fat from slaughter lines and boning halls, turning it into an oil that can be used in the food and pet food industry. We have two standard sizes of plant; 1.5 tonne/hour and 3.0 tonne/hour, with yields upwards of 70% by volume. The process is designed for minimal operator input and all machinery is of hygienic design, allowing wash down of mechanical and electrical components.



The FPE Fat Melting Plant can be designed to process both hot body fat and cold fat trimmings, meeting all hygiene requirements for further processing to lard/dripping. The raw fat comprises three components; solids, oil and water. The system separates these phases to give two valuable commodities; tallow oil and fat greaves. The water can be disposed of through an effluent treatment system.

The process starts with the raw fat being tipped into a receiving hopper, which is then screw fed to a grinder to reduce the particle size. From the grinder the fat is fed into a melting tube which injects steam to raise the temperature to start the separation process. The fat is then fed through a refining process involving decanter, separator and filter until the tallow is cleaned to the required standard.

FPE are able to supply all the required component pieces to make a Fat Melting Plant including electrical controls, field wiring, mechanical installation and plant commissioning. We also offer service visits and inspections to ensure the plant is kept at its optimum operating capacity, and hold a full supply of spare parts that can be despatched at short notice should the need arise.



MODEL	FMP-150	FMP-300
CAPACITY	Up to 1500 kg/hour raw fat	Up to 3000 kg/hour raw fat
STEAM REQUIRED	280 kg/hour	560 kg/hour
MAX INSTALLED POWER	130 kW	160 kW
COMPRESSED AIR	5 bar	5 bar
HOT WATER REQUIRED	300 litres/hour	300 litres/hour
COLD WATER REQUIRED	100 litres/hour	100 litres/hour



The FPE Fat Melting Plant can be supplied with new machinery, used/refurbished equipment or a combination of both, meaning we can tailor a package to suit everyone's budget. We can supply all machinery, pipework and ancillary equipment required, and even supply holding tanks for the finished oil. Our experienced team of project engineers will guide you through every step of the project, and in conjunction with our skilled installation crew will ensure your expectations are fulfilled.

FPE understands the importance of our after sales and spare parts support to our customers. To this end we aim to despatch an engineer to site for inspection and repair problems within 24 hours of notification.