The Essa® CPF035 Certified Pressure Filter is one of a new line of batch pressure filters designed with regulatory compliance and user safety in mind. It is long lasting and ergonomically advanced.

**Benefits**

- Robust and long lasting: fabricated almost exclusively using stainless steel materials and fittings.
- Rated to operate under design conditions of 1380 kPa (200 psi) at 50°C: makes filtering fine samples quicker, reducing sample preparation time and increasing productivity.
- Ease of use: the swing-out barrel is positioned at a suitable height for easy loading and unloading.
- All control levers are within easy reach for operator comfort during long shifts.
- Clamping wheel located at the front and assisted by a gearbox.
- Operator safety: lid clamping wheel is fitted with an interlock mechanism which prevents the wheel from being turned to release the lid while the barrel is still pressurised.
- Protective spray shield: the base of the barrel incorporates a stainless steel shield that protects the operator from any liquid spray should the bottom seal be broken.
- Quick access to the filter cake: there is no need to tediously unscrew the base plate as the barrel easily lifts off the filter cake via a simple lever arrangement.
User-friendly, superior performance

Lockout sprocket ratchet mechanism. This prevents the wheel from being turned, to release the lid, while the barrel is still pressurised. When the air pressure is expelled from the barrel via the discharge ball valve, the lockout sprocket is mechanically released, enabling the lid to be raised.

With the machine in the opened position, a filter cloth is placed on the base drain plate below the barrel, after which the barrel is lowered onto the base drain plate via a convenient hand lever. The barrel is then securely clamped to the drain plate using an over-centre clamp, and the sample is then poured into the top of the barrel.

For added protection against any liquid in the barrel spraying out under pressure, a protective shield surrounding the base of the barrel directs it towards the base plate to be captured.

Registered design and construction
With its stainless steel materials and fittings, the Essa CPF035 Certified Pressure Filter has a long lasting and tough finish, and can withstand a range of corrosive and moist conditions, ultimately resulting in increased availability and higher productivity.

It is rated to accept up to 1380 kPa air pressure and the design is compliant with AS 1210, ASME VIII and Pressure Equipment Directive 2014/68/EU. The desired operational pressure in the barrel can be regulated using the filter regulator and easy-to-read pressure gauge.

Quality results and higher productivity
Unloading is easily achieved via a swivelling base, which allows the operator to place a bucket beneath the unit, thus minimising any loss of filter cake. Because of this simpler access to load the unit and unload the filter cake, there’s less risk of sample loss or contamination of the filter cake, resulting in a more competent sample being taken. When operating at a higher air pressure, the user is able to achieve faster cycle times when filtering fine material.

The pressure filter can also be used more productively than traditional pressure filter configurations because of its refined operational ease of use. By means of a simple lever and gas strut arrangement, the barrel can quickly be raised above the cake, rather than the operator having to unscrew the base plate to access the filter cake after de-watering.

Robust construction, reliable and safe to operate
The Essa CPF035 Certified Pressure Filter, handling a capacity of 35 litres, is designed for specialised large volume metallurgical test work and similar batch processing. The equipment is used to separate solutions from solids using air pressure forcing liquid through filter media while retaining the solid “filter cake”. It is designed to comply with Western Australia Department of Mines and Petroleum requirements relating to pressure vessels (i.e. classified plant). Batch pressure filters are commonly found on mine sites in gold rooms, assay laboratories and other metallurgical test facilities.

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Design compliance

Pressure Equipment Directive 2014/68/EU

Registered with WorkSafe (Government of Western Australia, Department of Commerce)

Design Registration Number: WAP24049
Design Conditions: 1380 kPa at 50°C
Design Code and Class: AS 1210 – 2010 Class 3
Hazard level (as per AS4343): C

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Design Code: ASME VIII Division 1 – 2015
Hazard Level (as per AS4343): C

Specifications

Capacity: 35 litres (max)
Dimensions (W x D x H): 856 mm x 740 mm x 1516 mm
Shipping Dimensions (W x D x H): 1056 mm x 940 mm x 1716 mm
Working Mass: 400 kg
Shipping Mass: 488 kg