

To Know Sovereign KBF (Kompakt Band Filter) Better

PRINCIPLE: The principle of filtration through SOVEREIGN KBF is by “Gravity + Hydrostatic Head” which together offers the required head for the coolant to pass through the filter media.

The solid contamination settles by Gravity on the Filter Media forming the dirt cake. This dirt cake in turn acts as a fine filter.

CONSTRUCTION: SOVEREIGN KBF comprises of 2 or 3 disc wheels connected by a hollow shaft in the centre and Doctor Blades (Scrapper Blades) at the Periphery. These discs are perfectly parallel to each other and mounted vertically in the Filter System.

A continuous Honey Comb Belt is positioned tangentially to the Disc Wheels at the bottom with the help of 4 shafts. The front Shaft is the Driveshaft. The Rear Shaft helps to maintain the tension on ‘Honey Comb Belt’ to be perfectly tangential to the discs. The Filter Media is placed between the Discs and the ‘Honey Comb Belt’. The Discs along with the Honey Comb Belt and the Filter Media together form the ‘Trough’ where filtration takes place.

The float switch is provided to sense and maintain the Coolant level in the Trough. The float switch helps in sensing the rising level of the coolant and the choked Filter Media indexing.

THE BENEFITS OF SOVEREIGN KBF:

- (1) Filtration under the Gravity and Hydrostatic Head- No External Pressure –Total energy savings
- (2) The Electrical Energy required is only for indexing the filter media when it is choked.
The indexing motor is rated 0.18 kW maximum which is negligible.
- (3) The Filter Media used is “inexpensive Non-Woven” nature. Depending on the inlet dirt load and the degree of clarity required media of different GSM (Grams per Square Meter) can be selected – Flexibility.
- (4) The SOVEREIGN KBF has simple yet ROBUST construction offering practically NIL maintenance and uninterrupted long service life
- (5) SOVEREIGN KBF is light in weight and size occupying small floor space. Hence, SOVEREIGN KBF can be installed even on top of a storage tank. SOVEREIGN KBF offers all ease of Installation.
- (6) Low initial investment and Simple inexpensive installation with Higher Return of Income (ROI).
- (7) The simple construction and operation of SOVEREIGN –KBF ensures safety of the plant and personnel.
