



CHINOOK CH-47 APU Inlet Barrier Filter System

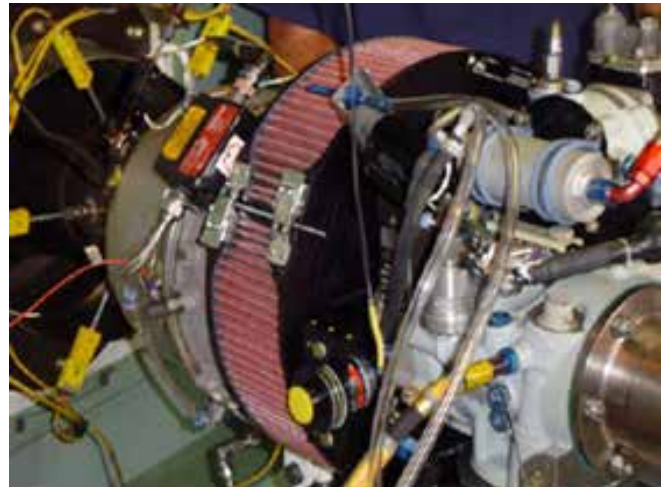
Part Number 104004-101, Hamilton Sundstrand T62T-40-1 APU

The CH-47 APU Inlet Barrier Filter (IBF) system can be installed on the Hamilton Sundstrand T62T-2B APU. The system can be installed in versions of the CH-47 helicopter that include the CH-47 D/G, MH-47 E/F. The CH-47 APU IBF system is designed to filter all air entering the APU inlet. The design includes integral seals to eliminate unfiltered secondary air sources from entering the inlet.

The filter media for this application has been tested, per SAE J726. A filtration capture efficiency of 99% in AC Coarse Sand and AC Fine Sand was demonstrated.

The CH-47 APU IBF fits on the APU with minimal modification to the APU and aircraft structure – there is no A kit (move APU components) required from Hamilton Sundstrand. The filter elements are reusable and easily removable for servicing. The filters are the same as those installed on the H-60 APU for commonality of use. With the IBF installed, the APU meets all of its design performance requirements throughout the operating envelope of the aircraft including the extremes of temperature and altitude. The horsepower loss and increase in fuel flow as a result on installing the IBF kit is negligible, even with restricted filters.

A mechanical differential pressure indicator is provided with each CH-47/APU IBF installation kit. It provides a means for the ground crew to determine if the system requires servicing and allows tracking of filter assembly performance as an “on-condition” component. The indicator is located for easy access for the ground crew to visually check filter condition.



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Part Number 104004-101
Hamilton Sundstrand T62T-1 APU

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