

Airline Operator(s) Annual Cost of Maintenance

Annual Cost Savings of {model number} Engine Driven Pumps for the B777 Aircraft

| Model Number | Competitor's Model | OEM's Model |
|---|--------------------|------------------|
| B737-XXX Fleet Information: | | |
| 1 Aircraft Fleet Size | 50 | 50 |
| 2 Average Hours of Daily Utilization | 7.89 | 7.89 |
| 3 ACMPs Per Aircraft | 2 | 2 |
| 4 Annual ACMP Hours | 287,985 | 287,985 |
| Annual Line Maintenance Cost: | | |
| 5 Mean Time Between Failure (in hrs.) | 7,000 | 16,995 |
| 6 Unscheduled Removal Rate (URR) | 0.1429 | 0.0588 |
| 7 Annual Unscheduled Removals | 41.14 | 16.95 |
| 8 Annual Line Maintenance Labor Cost (@ \$35/hr. & 1.5 hrs/removal) | \$2,160 | \$890 |
| Annual Cost of Delays: | | |
| 9 % of UR's Resulting in Flight (Flt.) Delay | 32.60% | 32.60% |
| 10 Annual UR's Resulting in a Flt. Delay | 13.41 | 5.52 |
| 11 Average Cost of a Flt. Delay | \$3,948 | \$3,948 |
| 12 Annual Cost of Flt. Delays due to ACMP failure | \$52,950 | \$21,809 |
| Annual Cost of Cancellations: | | |
| 13 % of UR's Resulting in a Flt. Cancellation | 13.30% | 13.30% |
| 14 Annual UR's Resulting in a Flt. Cancellation | 5.47 | 2.25 |
| 15 Average Cost of a Flt. Cancellation | \$5,790 | \$5,790 |
| 16 Annual Cost of Flt. Cancellations due to ACMP failure | \$31,681 | \$13,049 |
| Annual Maintenance Cost: | | |
| 17 Annual Pump Repairs and Overhauls | 41.14 | 16.95 |
| 18 Labor & Material Cost per Shop Visit | \$3,280 | \$3,420 |
| 19 Shipping Costs (both ways) | \$30 | \$30 |
| 20 Annual Maintenance Cost | \$134,972 | \$57,983 |
| Annual Fuel Burn Cost: | | |
| 21 Weight of ACMP in Pounds | 32.7 | 30.1 |
| 22 Gals. of Fuel Burned / AB hr. / 1000 lbs. | 5.45 | 5.45 |
| 23 Annual Fuel Burn Cost due to ACMP Wt. (@\$0.60/Gal.) | \$61,588 | \$56,691 |
| <i>*Without External Pulsation Dampner</i> | | |
| Annual Inventory and Scrap Costs: | | |
| 24 Inventory of Spare ACMPs | 2 | 2 |
| 25 Cost of a Spare ACMP ** | 25,994 | 17,280 |
| 26 Inventory Carrying Cost at 12% | \$6,239 | \$4,147 |
| 27 Scrap Cost* (assumes 2% Installed Vickers Pumps; 1% Abex) | \$51,988 | \$17,280 |
| 28 Annual Inventory and Scrap Cost | \$58,227 | \$21,427 |
| 29 TOTAL ANNUAL COST | \$339,458 | \$170,976 |

