

IWG's Electronic Water Quantity Pre-Select System

New Intelligent Water Quantity
Pre-Select System for Boeing
737NG -600 through - 900ER
Family Aircraft **Now for 737-8!**

Coming soon for the A320 family



Benefits

- Instantly and precisely select your desired water upload quantity prior to each flight, reducing all that excess water weight!
- Provides historical water usage data for future flight planning and operations
- Easily fits in to existing ground maintenance water-fill procedures
- Takes the guesswork out controlling water upload quantities with analogue water gauges
- Pre-Select desired water quantities for reach flight
- Water usage stored on SD Card
- Water usage offloaded via GSM for Analysis
- Water Pre-Select Level Upoaded via GSM (optional)

Features

If you install the Water Pre-Select System you can:

- Increase lift by up to 400lbs per flight
- Add two Revenue Passengers per flight
- Reduce Fuel Burn and Carbon Footprint



IWG will generate significant savings for the industry while reducing CO2 emissions.

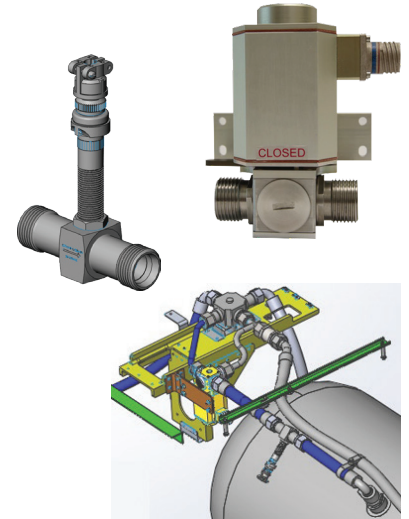
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How it works

- When the water in the tank reaches the Target amount, the water is diverted to the overflow line by our 3 way Motor Operated Valve (MOV) as a visual indicator to the Ground Crew that the water has reached its pre-set Target. This Tank Fill visual indicator is preserved to ensure that there is not additional training to the Ground Crew



The Pre-Select Controller is an interactive Touch Screen in the aft galleys Flight Attendant Panel of the 737 NG that allows the Airline to pre-set the infill water quantity target in the Potable Water Tank.



Approvals

- Transport Canada STC
- FAA STC
- Application to additional countries upon request

Integration

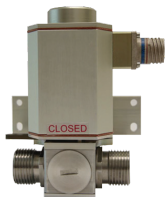
- Ease of installation
- Simple Operation fits into existing procedures
- 24/7/365 AOG/ spares support world-wide

System components

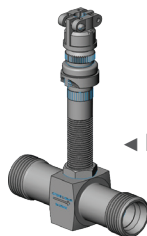
- ▼ Pre-Select Touch Screen



- ▼ MOV



- ◀ Flowmeter



Easy + Automated

- System is activated during aircraft touch-down via the WOW Sensor Signal
- Once the aircraft stops and the parking brake is engaged, the system controller compares the water quantity in the tank to the pre-set water target
- If the tank water quantity is equal to or greater than the pre-set target the controller switches the MOV to the overflow position
- If the tank water quantity is less than the pre-set target, the controller switches the MOV to the Fill (open) position
- As the ground crew uploads water from the water cart through the service panel, and when water in the tank reaches the pre-set target, the controller switches the MOV from the Fill (open) position to the overflow position
- This results in the same visual indicator to the fill crew that the tank has been filled i.e. water spills out the overflow port. Zero training in this case is required for the fill crew
- When the aircraft is ready to taxi and the parking brake is dis-engaged, the controller switches the MOV back to the open position for flight



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