

Supply and Disposal System for Airport in Soekarno-Hatta, Jakarta

Situation:

The expanded Terminal 3 of Jakarta International Airport in Indonesia commenced operations in 2017 with 17 new Multiple Apron Ramp System (MARS) gates.

Each parking position is equipped with various pits for power, pre-conditioned air, potable water, blue water and sewage.

Roediger supplied the plants for the central wet services plant room that are connected to more than 80 service pits in the apron area to supply potable and blue water and to discharge sewage from the aircraft.



Solution:

Potable water is continuously disinfected using UV and chlorine and circulated to meet the hygienic requirements of the airlines. It is distributed by a pressure boosting station to the pits in the apron area.

The blue water is automatically mixed and prepared inside two batch-wise operated mixing tanks and distributed to the pits via pressure boosting station.

The extraction of sewage from the aircraft waste tanks is done by a central vacuum station that is connected through vacuum sewage pipes to the service pits. The collected sewage is discharged through sewage pumps to the sewage treatment plant and the exhaust air is purified using a biofilter system.

The wet services are supplied and extracted without the use of services vehicles through underground pits concept. The hinged pits are easy to handle and aircraft load rated.

Technical Data:

Main Components Roediger® Wet Services Plant Room

Potable Water Station:

Storage tanks: 4 vertical tanks @ 12 m³

Pressure boosting station: 4 pumps @ 7,5 kW

Blue Water Station:

Mixing tanks: 2 vertical tanks @ 2,2 m³

Pressure boosting station: 2 pumps @ 7,5 kW

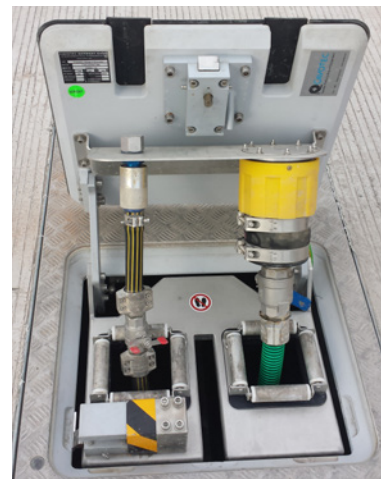
Vacuum Station:

Vacuum vessel: 1 horizontal tank, 10m³

Vacuum pumps: 3 pcs. rotary claw vacuum pumps @ 250 m³/h

Sewage discharge pumps: 2 pcs@ 5,5 kW

Biofilter: 1 pcs.



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