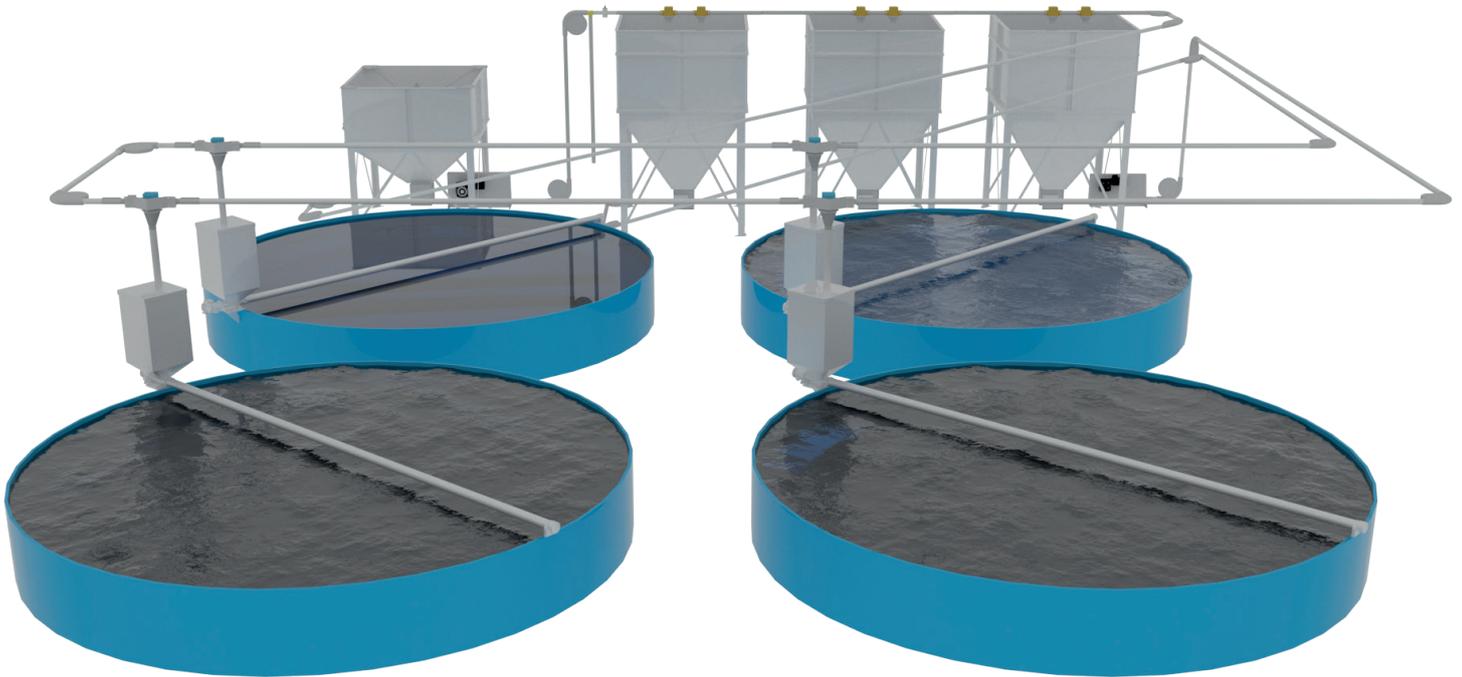# Aquatec
Feeding System

aquatec™

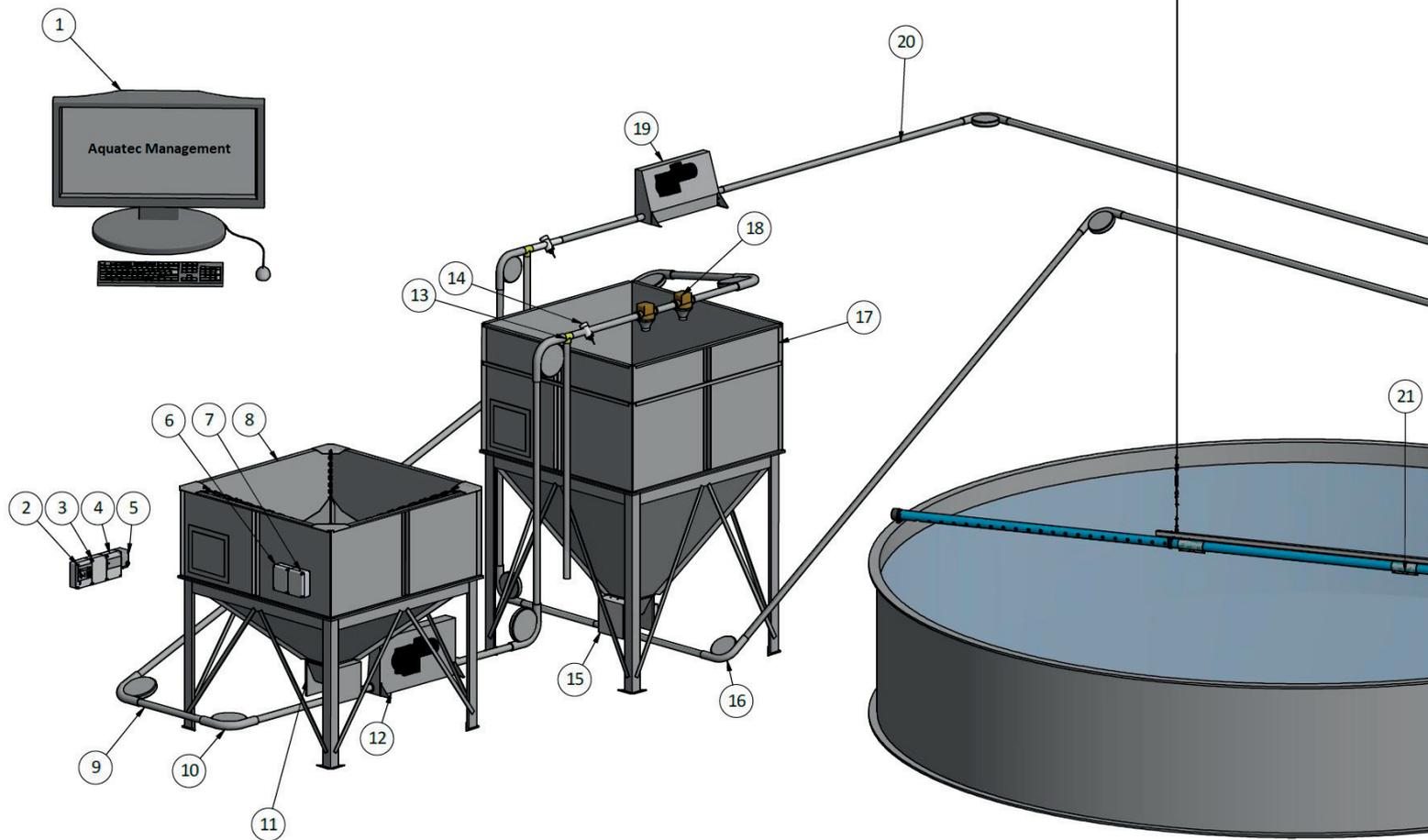## Reliable feeding system with low operating costs.

Feeding of the fish is one of the most important activities in the fish farming industry. Underfeeding can result in a depression of the growth, and overfeeding can result in water pollution and waste of expensive feed. Proper feeding strongly affects the growth of the fish, as well as the proper operation of the fish farm.

The Aquatec feeding system is one of the most reliable and efficient feeding system for land-based fish farming operations and has been installed on more than 100 sites. One of the key features in the Aquatec Feeding System is our software FAO - Feed Assistant Online.

FAO gives our customers the abiity to control feed portions and feed types individually per fish tank. In addition it gives the opportunity of mixing feed types and make different feed profiles. This assures optimal productivity 24/7.
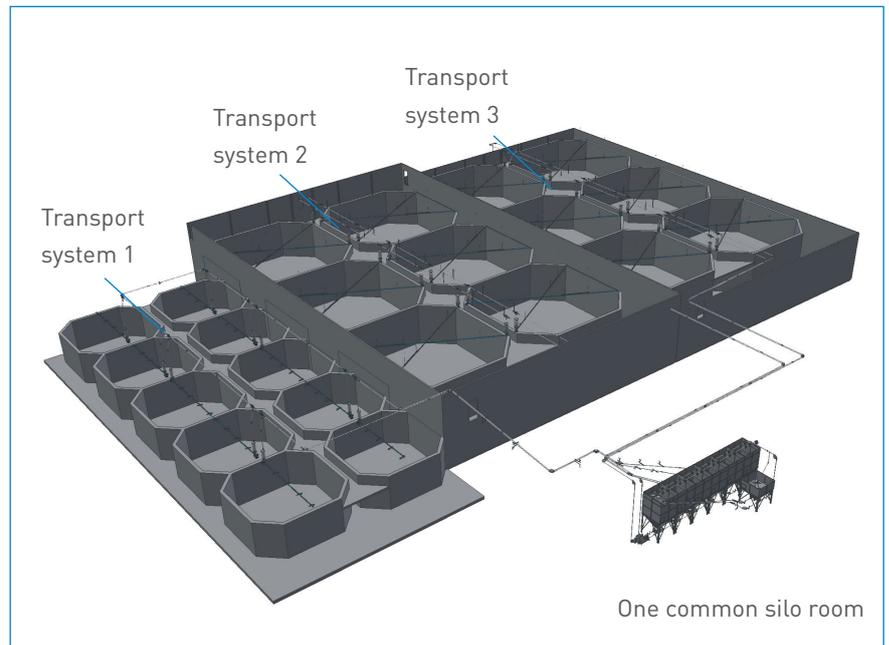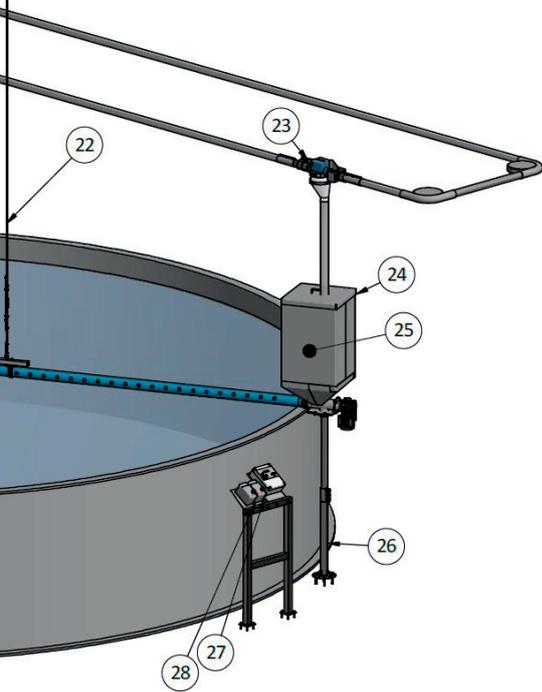
Key functionality:

- Improved feed conversion
- Increased growth rates
- Aquatec unique feeding software
- Reduced feed waste
- Reduced manpower
- Easy maintenance
- Full software control
- Feeding profiling
- Simple installation
- Low power consumption
- Scalable system
- Service & Support

AKVAGROUP™
L A N D   B A S E D

Aquatec Feeding System

FEEDING SYSTEM COMPONENTS

1	Feed PC, AQS Basic/Management	Windows-based software for controlling the feeding system
2	Power Supply	Powers multi mix valves (Ø60) and DAC units
3	FAO	Controls feeding system, keeps track on feed amount. Programmable via AQS Basic/Management software
4	Silo Auger Control	Controls on/off for storage silo augers
5	Motor Protection	Protects drive unit motor from power surges
6	Local Control for Filling Station	Starts/stops filling station. Selection of which storage silo to fill
7	Power Supply (Filling Station)	Powers multi mix valves for filling station
8	Filling Silo	Filling station silo for big bag loading
9	Piping & Wire, Ø63	Transports feed from filling station to storage silos
10	Corner, Ø63	Used for bends in Ø63 pipe system
11	Filling Silo Hopper, Ø63	Unloads feed from filling station silo
12	Drive Unit, Ø63	Driving force in Ø63 transport pipe system, used for filling station
13	Feed Drop	Collects any residue feed left in the system
14	Feed Detector, Ø63	Detects if there is any feed in the piping
15	Feed Silo Hopper, Ø60	Unloads feed from storage silo to transport system
16	Corner, Ø60	Used for bends in Ø60 pipe system
17	Feed Storage Silo	Stores fish feed pellets
18	Feed Silo Valve Ø63	Multi mix valve, Ø63, opens when storage silo is being filled
19	Drive Unit, Ø60	Driving force used for Ø60 transport pipe system
20	Piping & Wire, Ø60	Transports feed from storage silo to feeding automates by the fish tanks
21	Flanged Joint	Provides stability for the dosing auger
22	Feeder Support	Support wire, provides stability for the dosing auger
23	Feeder Valve	Multi mix valve, opens if feeder is being filled by transport system
24	Feeder	Stores fish feed, before dosing into the fish tank

Transport system 1

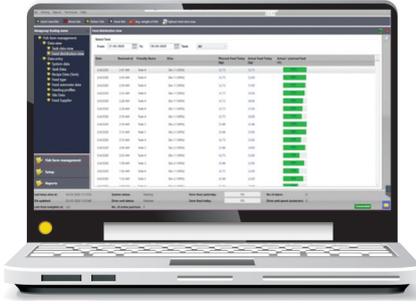Transport system 2

Transport system 3

One common silo room

FEEDING SYSTEM COMPONENTS

25	Feeder Level Switch	Detects feed level and gives signal to FAO when feed level gets low
26	Feeder Floor Bracket	Provides floor support for the feeding automate
27	Dosing Auger Control Unit	Controls start/stop of the dosing augers
28	Motor Protection	Protects dosing auger motor from power surges

SPECIFICATIONS AQUATEC FEEDING SYSTEM

Central control	FAO—Feed Assistant Online. PC-based software that controls feed portions, feed types and feed profiles for optimized operation.
Low running and maintenance cost	Our feeding system uses on average only 0.75 KW/h. Our feeding system is designed for easy maintenance with a complete spare part list available on demand.
Feeding Capacity	Our feeding system can dose from small feed e.g. 10 gram per day and up to more than 10 tons per day.
Fish pellet size	Recommended pellet size range for transport system from 0.5—0.9 mm.
Fish tank size	Our Dosing auger (feeding automate) can handle (tank diameter) from Ø2-20 m. The feeding automate is designed for optimal use of feed that gives the highest growth rate of the fish. Up to 4 feeding automates can be installed per fish tank.
Transport system	Our transport system for fish pellets is flexible and designed to meet our costumers requirements. We recommend max length of one transport system loop 300 m. The max speed of the transport system is 24 m/min.
Storage silo	A wide range of in- and outdoor storage silos are available to meet required feed capacity, and our FAO can control up to 8 storage silos.
Customized Feeding System	Our feeding system are customized to meet our costumers individual feeding demands and to optimize operation cost.

Our unique Aquatec Feeding System Software puts you in full control of all processes, enabling continuous optimization of feeding.

SPECIFICATIONS OF AQUATEC FEEDING SYSTEM SOFTWARE

NEED	FUNCTION	BASIC	MANAGEMENT
Individual control of feed dosing to each fish tank and up to four valves per tank	Setup of 1-4 valves pr. tank and four feeding profiles per tank	Yes	Yes
	Control tank data	Yes	Yes
Quick overview of dosing per dosing valve per fish tank - including quick overview of fish growth curves	Growth curves with relevant data of feeding per fish and growth of fish including reports	-	Yes
	Visible alarms if feed is different than planned	Yes	Yes
	Overview and control more systems from one window	Yes	Yes
Dosing of different amounts/ sizes of pellets per fish tank	Setup feed recipe per fish tank	Yes	Yes
	Control dosing auger and feed automate individually per fish tank	Yes	Yes
Control which silos the feed is coming from up to eight silos	Control of silos up to eight silos can be controlled individually and giving possibility to mix feeding per fish tank	Yes	Yes
Plan amount and time for feeding	Auto SGR progression - feeding is fully automated and can be planned 24/7	Yes	Yes
Fish handling	Register health of fish and numbers of dead fish and average weight of fish	-	Yes
Exchange data to other programs	Extract selected data in CSV files	Yes	Yes
Register supplier of feed	Feed supplier data registered in software enabling traceability of feeding batches	Yes	Yes
Save reports of fish handling	Make individual reports for a selected period e.g. fish grow curves	Yes	Yes
Setup wizard	Setup of valves, silos, drive units, auger, dosing auger, relay, sensors etc.	Yes	Yes
Restore data in case of breakdowns	Automatic backup	Yes	Yes

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