

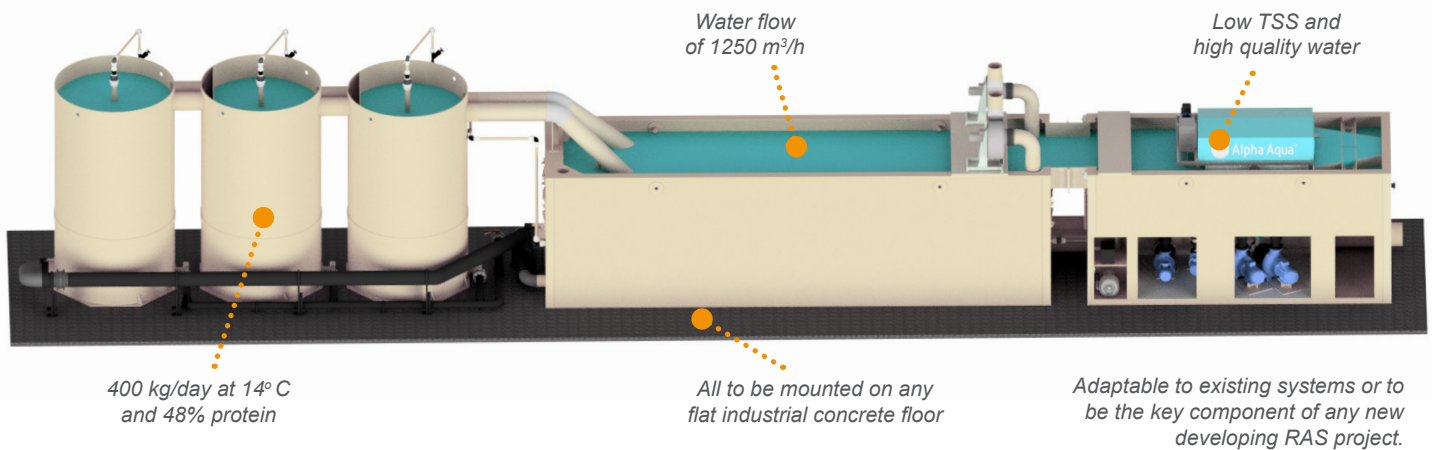
# ALPHA TECH

## 0919 - ALPHA Line™


### ALPHA Line™ - Water Treatment

With a unique and compact design, the ALPHA water treatment line provides the best water quality: low TSS, high nitrification and excellent gas balance for the fish. Built in environmental friendly materials and food grade

quality PP, allows an extremely quick plug & play set-up based on any flat industrial concrete floor and is resistant to aggressive environments like high salinity and temperatures.



### ALPHA Line™ - Water Treatment

Technical Specifications 

ALPHA Line™ net footprint	73 m <sup>2</sup> (104 m <sup>2</sup> incl. side walkways)
ALPHA Line™ dimensions (LxWxH)	30.3x3.07x5.3 m - incl. piping of BF
ALPHA Line™ water volume	90 m <sup>3</sup>
Flow per Master Unit	1000 m <sup>3</sup> /h at 40micron filtration screens (distributed on 2 Xylem lift pumps, frequency regulated)
Total ALPHA Line™ weight (w/water)	106.5 Tn (1.45 Tn/m <sup>2</sup> as average)
Operational temperatures (min-max)	2° C to 32° C
Drum Filter screen size	40 microns as standard (Hydrotech)
Total available degassing surface	74 m <sup>2</sup>
Biofilter towers	3 per standard ALPHA Line™ expandable with dedicated lift pump (Xylem)
Integrated UV reactor	Built in HDPE providing a min. dose of 50mJ/cm <sup>2</sup> with click-in bulb system and operational counter
Peak feeding capacity	400 kg/day at 48% protein and 14° C
Compressor Blower	3 kW and 4 kW - Integrated Aeration system
Backup compressor system	With storage tank for emergency shutdown
TSS (mg/l)	<15mg/l after microparticle filter
CO <sub>2</sub> levels	From 22mg/l to 3-5mg/l in full salinity conditions
Power consumption	48 kWh
Electrical connection	3 x 400V 50/60Hz
ALPHA Orbit™ Control System	Included (Siemens PLC & SCADA based)

#### Options upon demand:

- Oxygenation support system
- Heating/chilling system
- Heat exchange system in full PP
- Sludge treatment system
- Backup generator
- Needed piping work to/from ALPHA Line™ (inlet/outlet of water/sludge and degasser exhaust)
- Installation & commissioning (incl. training)
- Transport

