

REFERENCE LIST

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Process Water & Waste Water Treatment In the Food Industry



Client	Plant Type	Capacity
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Dairy industry



Wimm Bill Dann Timashevsk, Russia	Anaerobic-aerobic waste water treatment in dairy industry Anaerobic stage ANAFIT-CS (EGSB) Aerobic treatment Post-filtration	84/125 8.6	m ³ /h t COD/d
Gefu Produktions AG Rickenbach, Switzerland	Anaerobic waste water treatment in the dairy industry Anaerobic whey fermentation MSB SBR – Reactor	16.3 10	t COD/d m ³ /h
Emmi Milch AG Dagmersellen, Switzerland	Anaerobic / aerobic waste water pre-treatment Methanisation (EGSB SBR, flotation, sludge dewatering	1,200 3,600	m ³ /d kg COD/d
Milchwerke Berchdesgadener Land Piding, Germany	Process water treatment in the milk industry Softening, reverse osmosis	2.2	m ³ /h
Staatliche Molkerei Weihenstephan Freising, Germany	Boiler feed water treatment: Reverse osmosis Novalis 8102	2.9	m ³ /h
Milchwerke Fulda-Lauterbach Fulda, Germany	Process water treatment in the milk industry Reverse osmosis , softening	2.2	m ³ /h
Goldsteig Käsereien Bayerwald GmbH Pocking, Germany	Boiler feed water treatment: Reverse osmosis NOVALIS	2.2	m ³ /h
Adelbyr Nordfriesland Milch Nordhackstedt, Germany	Waste water treatment in the milk industry SBR plant / direct discharger	1,650 4,950	m ³ /d t COD/d
Sachsenmilch AG Leppersdorf, Germany (Müller-Milch)	Extension of a complete sewage treatment plant encl. new development Equalisation basin Flotation Sequence batch reactor Sand filter Sludge thickener Sludge dewatering	3,000	m ³ /h
Hirzel Hirzel, Switzerland	Waste water treatment in the milk industry SBR plant Nitrification / denitrification	200 640	m ³ /d t COD/d
Nordmilch eG Werk Seckenhausen, Germany	Waste water treatment in the milk industry Aerobic pre-treatment	62 2,500	m ³ /h kg COD/d
Milchwerke Regensburg Regensburg, Germany	Process water treatment in the milk industry desalination	13.0 2,500	m ³ /h kgCOD/d

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Westmilch Everswinkel, Germany	Waste water treatment in the milk industry SBR plant / modification of a compact unit direct discharger	600 1,800	m ³ /d t COD/d
Westmilch Klatzow, Germany	Waste water treatment in the milk industry SBR plant / direct discharger	1,650 4,950	m ³ /d t COD/d
Sachsenmilch (Müller-Milch) Leppersdorf, Germany	Waste water treatment in the milk industry SBR plant	2,400 7,200	m ³ /d t COD/d
Molkerei Zott Mertingen, Germany	Aerobic waste water treatment with anaerobic sludge stabilisation: Bio-P, nitrification, denitrification Fermentation of sludge	100 2,950	m ³ /h kg BOD ₅ /d
Alois Müller (Müller-Milch) Aretsried, Germany	Waste water treatment in the milk industry SBR plant	1,500 4,050	m ³ /d t COD/d

Operation Survey for WWTP

Emmi Milch AG Dagmersellen, Switzerland	Anaerobic/ aerobic waste water pre-treatment Methanisation (EGSB) SBR, flotation, sludge dewatering	1,200 3,600	m ³ /d kg COD/d
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Sugar industry



Nordic Sugar Kedainiai, Lithuania	Anaerobic waste water treatment in the sugar industry Anaerobic stage ANAFIT-CS Thickener, biogas treatment	100 m ³ /h 20 t COD/d
Nordzucker Klein Wanzleben, Germany	Anaerobic waste water treatment in the sugar industry Anaerobic stage ANAFIT-CS Thickener, biogas treatment	80 m ³ /h 2,880 t COD/d
Golden Sugar Refinery Lagos, Nigeria	Aerobic waste water treatment in the sugar industry 2 stage moving bed reactor BIOFIT-H with activated sludge reactor Sludge dewatering with belt filter press	40 m ³ /h 2,880 kg COD/d
Dakahlia Sugar Company Belkas, Egypt	Anaerobic-aerobic waste water treatment in the sugar industry Brukner mud sludge dewatering Anaerobic stage ANAFIT-CS Activated sludge reactor with nitrification / denitrification	373 m ³ /h 30 t COD/d 864 kg KN /d
Tambovskaya Tambov, Russia	Anaerobic-aerobic waste water treatment in the sugar industry Anaerobic treatment (ANAFIT-CS) Aerobic waste water (two stage Nitrification / denitrification) Nitrification / denitrification two stage Post treatment -filtration / aeration	300 m ³ /h 36 t COD/d 300 m ³ /h 0.95 t KN/d
Nile Sugar Company Cairo, Egypt	Anaerobic-aerobic waste water treatment in the sugar industry Brukner mud sludge dewatering – ANAFIT-CS Activated sludge reactor with nitrification / denitrification	26 tCOD/d 240 tTSS/d 140/330 m ³ /h
Konya Seker Fabrikasi Cumra, Turkey	Anaerobic-aerobic waste water treatment ANAFIT CS Extension of the existing waste water treatment plant	150 m ³ /h 380 m ³ /h 30 tCOD/d
Konya Seker San. Ve Tic. A.S. Konya, Turkey	Beet soil separation/ Anaerobic –aerobic waste water treatment in the sugar industry Dewatering beet soil with 3 Decanter Anaerobic stage aerobic stage with nitrification/denitrification	700 tTSS/d 100 m ³ /h 30 tCOD/d 800 kgN/d
Povazsky cukor, a.s. Trencianska Tepla, Slovakia Member of Nordzucker Group	Anaerobic-aerobic waste water treatment (Reconstruction) ANALIFT aerobic treatment with nitrification/denitrification	29 tCOD/d 550 kgN/d

Client	Plant Type	Capacity	
De Smet S.A. / Orafit S.A. San Pedro, Chile	Sedimentation of muddy waters / anaerobic waste water treatment ANALIFT	156 380	m ³ /h tCOD/d
Konya Seker Fabrikasi Cumra, Turkey	Anaerobic-aerobic waste water treatment ANALIFT aerobic treatment with nitrification/denitrification	150 380	m ³ /h m ³ /h
Südzucker Bioethanol GmbH Zeitz, Germany	Anaerobic-aerobic waste water treatment ANAFLUX / METEOR / GDE	235 11.1	m ³ /h tCOD/d
Südzucker AG Wabern, Germany	Aerobic wastewater treatment: Nitrification, denitrification	145 420	m ³ /h kg N/d
Zuckerfabrik Jülich Germany	Boiler feed water treatment: Demineralisation, CO ₂ removal, mixed bed exchanger Neutralisation and chemical storag	2 x 25	m ³ /h
Zuckerfabrik Jülich AG Jülich , Germany	Aerobic wastewater treatment: Extension of an already existing treatment plant by nitrification/denitrification	1,100	kg N/d
VUC Praha A.S. Sugra Factory, Brottewitz, Germany	Aerobic wastewater treatment	180	kg N/d
Nordzucker AG Uelzen, Germany	Anaerobic wastewater treatment ANALIFT	40	t COD/d
Südzucker AG Zeitz, Germany	Anaerobic wastewater treatment ANALIFT	21	t COD/d
Pfeifer u. Langen AG Elsdorf, Germany	Anaerobic wastewater treatment ANALIFT	3	t COD/d
	Aerobic wastewater treatment: Nitrification, denitrification	700	kg N/d
Südzucker AG Groß-Gerau, Germany	Anaerobic wastewater treatment ANALIFT	35	t COD/d
	Aerobic wastewater treatment: Nitrification, denitrification	720	kg N/d
AGRANA Zuckerfabrik Tulln A-Tulln	Anaerobic wastewater treatment ANALIFT	29	t COD/d
AGRANA Zuckerfabrik Tulln Tulln, Austria	Aerobic wastewater treatment: Nitrification, denitrification	340	Kg N/d
Zuckerfabrik Tulln Tulln, Austria	Anaerobic wastewater treatment ANALIFT	29	t COD/d
	Aerobic wastewater treatment: Nitrification, denitrification	340	kg N/d
Nordzucker AG Schladen, Germany	Anaerobic wastewater treatment ANALIFT	28	t COD/d
	Aerobic wastewater treatment: Nitrification, denitrification	630	kg N/d

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Pfeifer u. Langen Lage, Germany	Anaerobic wastewater treatment ANALIFT	35 t COD/d
	Aerobic wastewater treatment: Nitrification, denitrification	860 kg N/d
Zuckerfabrik Jülich AG Jülich, Germany	Anaerobic wastewater treatment ANALIFT	29 t COD/d
	Aerobic wastewater treatment: Nitrification, denitrification	580 kg N/d
Südzucker AG Platting, Germany	Anaerobic wastewater treatment ANALIFT	35 t COD/d
Südzucker AG Offstein, Germany	Anaerobic wastewater treatment ANALIFT	23 t COD/d

Brewing & Drinks Industry

Trebjesa Brauerei (InBev), Niksic, Montenegro	Neutralisation of brewery waste water with NaOH and CO₂	3,000 m ³ /d
Epe Gronau, Germany	Treatment for fruit juice dilution: Dosage Novalis 8520	15 m ³ /h
Löwenbräu Munich, Germany	Treatment of slurry deposit station: Slurry deposit station	1,500 l/h
Heineken Italia (former Dreher) Aosta, Italy	Extended aeration, clarification, sludge flotation, sludge centrifugation	1,550 m ³ /d
Brauerei VELTINS Meschede, Germany	Direct discharge into the receiving water: Extension of an already existing treatment system (mixing and equalisation basin, trickling filter, aeration and final clarification) by a biofilter for final treatment (dry filter system)	2,000 m ³ /d
AGUILA Heineken Madrid, Spain	Direct discharge into the receiving water: Screen, lift station 1 st treatment stage anaerobic: - preliminary acid fermentation - neutralisation - fermentation (Flowbed reactor) 2 nd treatment stage aerobic: - aeration - final clarification - sludge centrifugation	summer 10,000 m ³ /d winter 4,000 m ³ /d
KRONENBOURG Obernai, France	Neutralisation, nutrient addition, trickling filter with downstream intermediate clarification, weakly loaded aeration, sludge dewatering via chamber filter press	15,000 m ³ /d
Brauerei MUTZIG Stadt Molsheim Molsheim, France	Pre-clarification, weakly loaded aeration, anaerobic sludge digestion, sludge dewatering via chamber filter press	6,000 m ³ /d
SEBASTIAN ARTOIS Armentières, France	Rotating sieve, buffering basin, acid fermentation reactor, neutralisation, anaerobic reactor system UASB	2,600 m ³ /d

Client	Plant Type	Capacity
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Yeast industry

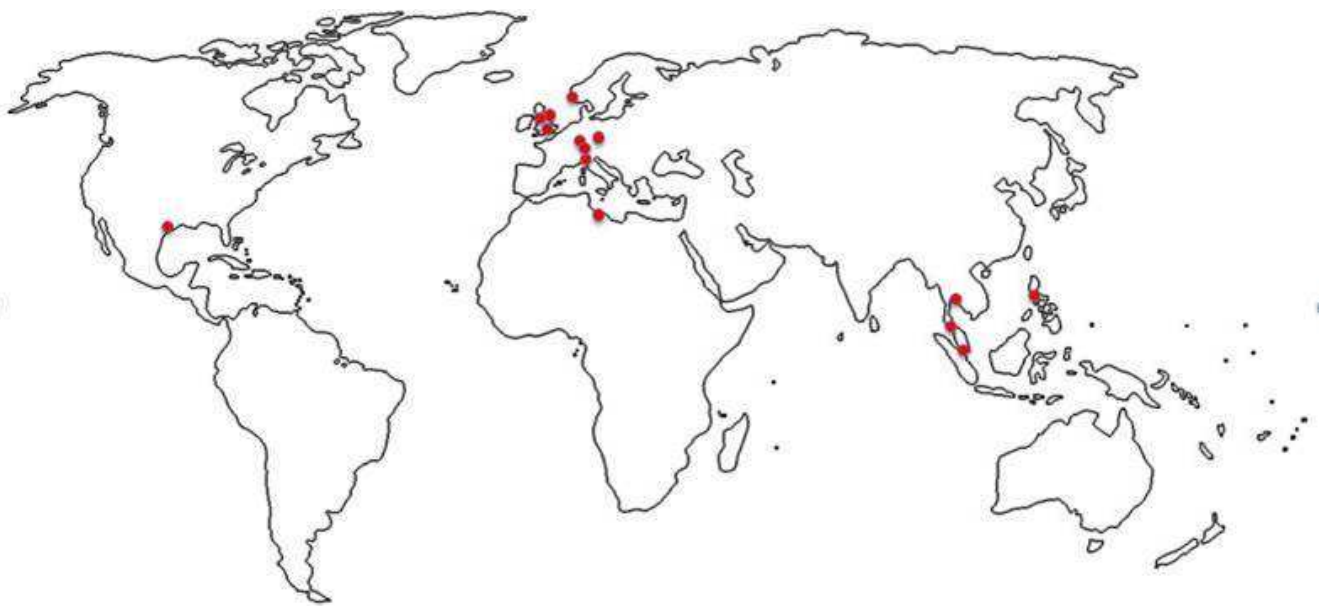


MIX Spółka Akcyjna Warsaw, Poland	Aerobic-aerobic waste water treatment in the yeast industry Moving bed reactor Deammonification DEMON® FLOCOPAC	50 m³h 50 kg KN /d
Lesaffre Wolczyn, Poland	Aerobic waste water treatment in the yeast industry Nitrification / denitrification	108 m³h 630 kg KN /d 6.3 t COD/d
Alltech Fermin Senta, Serbia	Anaerobic-aerobic waste water treatment in the yeast industry Anaerobic WWTP with Deammonification aerobic post-treatment phosphorus removal Nitrification/denitrification	104 m³h 2 kg KN /d 40 t COD/d
Leiber Bramsche, Germany	Anaerobic waste water treatment High-performance staged UASB ANAFIT-AC	7 t COD/d
Rompak Pascani, Romania	Aerobic waste water treatment for yeast waste aerobic treatment with nitrification/denitrification	167 m³h 696 kg KN /d

Waste Water Treatment in other industries

Südstärke Schrobenhausen, Germany	Boiler feed water treatment for starch producer: Reverse osmosis NOVALIS 3865 Softener DKSQ600	6.8 m³h
Aviko Deutschland GmbH Rain a. Lech, Germany	Treatment of wastewater resulting from potato processing: BIO-P (biological phosphate removal), nitrification, denitrification	800 kg N/d
Jupiter-Friskies Bük, Hungary	Waste water treatment for production from petfood Sieving machine, flotation	25 m³h
Amino GmbH Frellstedt	Aerobic wastewater treatment (extension) Nitrification, denitrification	780 kg N/d

H+E ranks among the world's leading suppliers in the fields of: water & wastewater treatment, and energy efficiency. Based on its global presence, the **H+E GROUP** has completed projects in over 50 countries.



Tel: +44 1403 272772

sales@he-water.co.uk
www.he-water.co.uk