



VENTIL AQUA

PORTFÓLIO



Food Sector



Food Sector

"You are what you eat."
Anthelme Brillat-Savarin



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Activity	Year	Country	Description
Fruit marmelades	2012	France	Waste waters coming from the industrial production of fruit components for food industry, that need pre-treatment adjustment of the COD level and pH, before beeing discharged into the municipal sewerage system. The solution implemented is a SmartAOP process developed by VentilAQUA, along with a control system of the final pH value. It's a continuous process, that reaches a daily flow of 200m3.

Project Data

Waste water type: fruit components process
Process: SmartAOP system as pre-treatment to reduce COD and control pH level
Capacity: 200 m3/day



Client
FRUPREP



Activity	Year	Country	Description
Winery	2012	Portugal	Waste waters are coming from the industrial production of wines. This activity is characterized by a strong influence of seasonality, as it mainly occurs during 1-2 month per year, whereas the remaining months the activity is very low. For that reason the technology applied is a batch biological oxidation process or SBR process (sequence batch reactor), which in this case uses two SBR reactors. The destination of the treated waters are the public domain.

Project Data

Waste water type: wine production
Process: biological oxidation with SmartSBR
Capacity: 50 m3/day



Client

QUINTA DE AMARES VINICULTURA Lda



Activity	Year	Country	Description
Winery	2011	Portugal	Waste waters are coming from the industrial production of wines. This activity is characterized by a strong influence of seasonality, as it mainly occurs during 1-2 month per year, whereas the remaining months the activity is very low. For that reason the technology applied is a batch biological oxidation process or SBR process (sequence batch reactor), which in this case uses three SBR reactors. The destination of the treated waters are the public domain.

Project Data

Waste water type: wine production
Process: biological oxidation with SBR



Client
MANUEL D. POÇAS JR. - VINHOS S.A.

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Activity	Year	Country	Description
Vegetable processing and and Precooked meals	2010	Portugal	Waste waters are coming from the processing of different types of vegetables, mainly from the washing of these vegetables, and from the preparation of pre-cooked meals. The technology used is a SBR biological oxidation process, batch system, which uses two SBR units to treat about 180 m3 daily, allowing the treated waters to be discharged into the public domain.

Project Data

Waste water type: food processing process
Process: biological oxidation with SBR
Capacity:180 m3/day



Client

ELS



Activity	Year	Country	Description
Vegetable and fruit processing	2010	Portugal	Waste waters are coming from the cleaning of boxes and containers used to transport food products. The technology applied is a SBR biological oxidation process, batch system, which uses one single SBR unit. The treated waters after a tertiary treatment process are recovered to be reused in industrial applications.

Project Data

Waste water type: food processing process
Process: biological oxidation with SBR



Client

MTE PORTUGAL (IFCO Group)



Activity	Year	Country	Description
Vegetable and fruit processing	2009	Portugal	<p>Waste waters coming from the industrial production of fruit components for food industry, as dairy, ice-cream, juices, etc.</p> <p>The technology applied is a biological oxidation process in two steps, that uses a MBR reactor as pre-oxidation process. This unit treats about 280 m3 daily and discharges the treated waters into the public domain. The sludges produced on the oxidation process is dehydrated by a belt filter press system.</p>

Project Data

Waste water type: food processing process
Process: Biological oxidation with MBR
Capacity: 200 m3/day



Client

FRULACT S.A. - Ferro



Activity	Year	Country	Description
Winery	2009	Portugal	Waste waters are coming from the industrial production of wines. This activity is characterized by a strong influence of seasonality, as it mainly occurs during 1-2 month per year, whereas the remaining months the activity is significantly lower. For that reason the technology applied is a batch biological oxidation process or SBR process (sequence batch reactor), which in this case uses three SBR reactors to treat together about 200m3 daily during harvesting. The destination of the treated waters are the public domain.

Project Data

Waste water type: wine production
Process: biological oxidation with SBR
Capacity: 200 m3/day



Client

SOCIEDADE VINHOS BORGES S.A.



Activity	Year	Country	Description
Vegetable and fruit processing	2008	Portugal	<p>Waste waters coming from the industrial production of fruit components for food industry, as dairy, ice-cream, juices, etc.</p> <p>The technology applied is a biological oxidation process in two steps, that uses a MBR reactor as pre-oxidation process. This unit is used as pre-treatmet as the waters are discharged into the municipal sewerage system.</p>

Project Data

Waste water type: fruit components process
Process:Biological oxidation with MBBR
Capacity: 60 m3/day



Client

FRULACT S.A. - Maia

*(...) We are able to provide
the most advanced and
up-to-date technologies (...)*





Activity	Year	Country	Description
Fish Processing	2007	Portugal	Waste waters coming from the industrial production of codfish. The waters from the fish washing and defrosting, equipment cleaning and others, are treated in a biological oxidation process with membranes, MBR unit. This unit treats about 200 m3 daily and discharges the treated waters into the public domain. The sludges produced on the oxidation process are dehydrated by filter press system.

Project Data

Waste water type: codfish processing
Process: Biological oxidation with MBR
Capacity: 200 m3/day



Client
SUESTE



Activity	Year	Country	Description
Winery	2007	Portugal	Waste waters are coming from the industrial production of wines. This activity is characterized by a strong influence of seasonality, as it mainly occurs during 1-2 month per year, whereas the remaining months the activity is significantly lower. For that reason the technology applied is a batch biological oxidation process or SBR process (sequence batch reactor), which in this case uses three SBR reactors used during harvesting. The destination of the treated waters are the public domain.

Project Data

Waste water type: wine production
Process: biological oxidation with SBR



Client
QUINTAS MELGAÇO S.A.



Activity	Year	Country	Description
Dairy	2004	Portugal	Waste waters are coming from a dairy process. The waters coming from milk processing are treated in a batch biological oxidation process or SBR process (sequence batch reactor), which in this case uses three SBR reactors to treat together about 600m3 daily, allowing it to be discharged into public domain.The sludges produced on the oxidation process is dehydrated by a centrifuge unit.

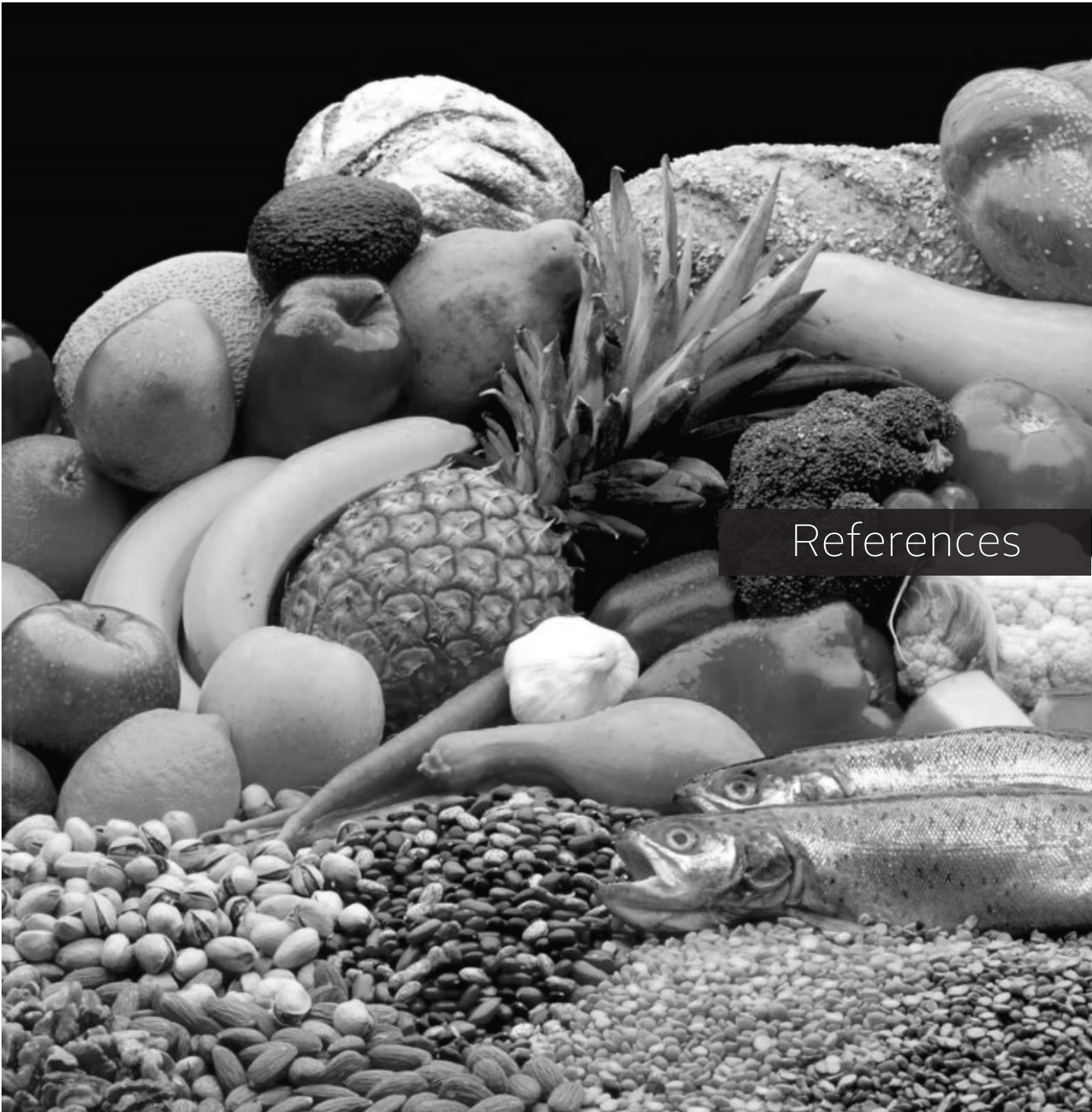
Project Data

Waste water type: Dairy production
Process: biological oxidation with SBR
Capacity: 600 m3/day



Client

RENOLDY



References

References			6
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COFISA S.A. Fish processing 2012 Portugal	QUINTA DA INVEJOSA Winery 2012 Portugal	QUEIJARIA MATIAS Dairy and cheese 2012 Portugal	
SIVAC Winery 2011 Portugal	FRIAVEIRO, Lda Fish processing 2011 Portugal	Fromagerie BEL PORTUGAL S.A. Dairy and cheese 2010 Portugal	
PASCOAL & Filhos, S.A. Pre-cooked meals 2010 Portugal	BIOFERMENTÉ Juices and drinks 2010 Portugal	ADEGA GRAMBEIRA Winery 2010 Portugal	
AVITOSTE Slaughterhouse and meat processing 2010 Portugal	FRIAVEIRO S.A. Fish processing 2010 Portugal	FRULACT S.A. – Marselha Fruit marmelades 2009 France	
QUINTA TERRAS DE VALDIGEM Winery 2009 Portugal	ADEGA ABRIGO DA PASSARELA Winery 2008 Portugal	BAIRRALIMENTAR Potato Chips 2007 Portugal	
CAVES DO FREIXO S.A. Winery 2006 Portugal	S&A – Sociedade Industrial Aperitivos S.A. Potato Chips 2006 Portugal	QUINTA DAS APEGADAS Winery 2006 Portugal	
SALSICHARIA ESTREMOCENSE Slaughterhouse and meat processing 2005 Portugal	VINICOLA CASTELAR Winery 2005 Portugal	PASCOAL & Filhos, S.A. Fish Processing 2005 Portugal	
SALSICHARIA SOARES & DAMIÃO Slaughterhouse and meat processing 2004 Portugal	SIDACEL Olive Oil 2004 Portugal	SIVAC Winery 2003 Portugal	
VARGENS Potato Chips 2001 Portugal	ETANOR Mineral Waters and Juices 2000 Portugal		

Estrada da Ponte, Lote A - Antanhol
3040-575 Coimbra
Portugal



Tel. + 351 239 437 336
Fax. + 351 239 438 619

ventilaqua@ventilaqua.com

Office/Administration
ventilaqua@ventilaqua.com

Commercial/Marketing
sales@ventilaqua.com

Technical Support
tec@ventilaqua.com

Logistics/Lab
log@ventilaqua.com

International Affairs
francisco.oliveira@ventilaqua.com
carlos.oliveira@ventilaqua.com

VentilAQUA, S.A.

Content Director
Francisco Oliveira

Web
www.ventilaqua.com

