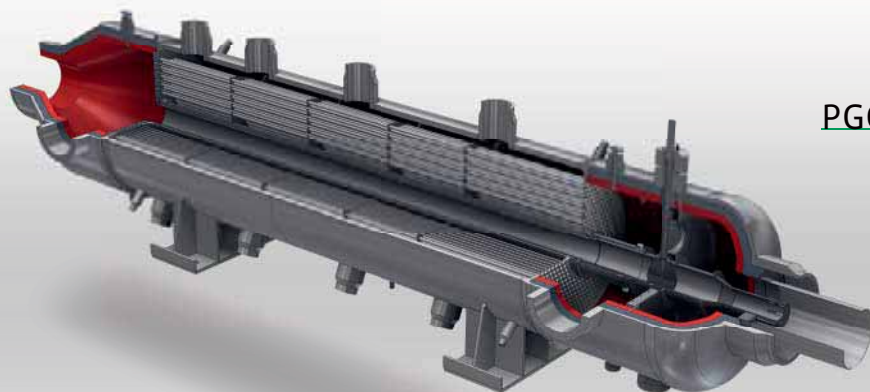
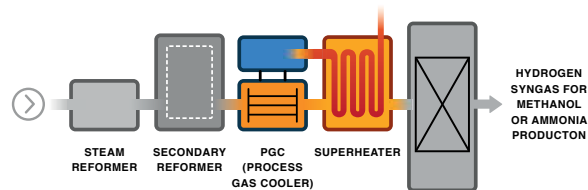


Process Gas Cooler Downstream Secondary Reformer



PGC Mopco Ammonia Plant

Proven Design
High Reliability

Application	Product Range	Scope of Supply
<p>Heat Recovery for Production of ammonia, methanol, hydrogen and similar applications</p> <p>Benefits</p> <ul style="list-style-type: none"> • Tailor made design to meet customer specific requirement • Capacity increase within existing footprint • High availability • Increase in operational flexibility • Reliable design based on decades of experience 	<ul style="list-style-type: none"> • Fire tube design (natural circulation) • U-tube design (forced circulation) • Steam superheater (option) 	<ul style="list-style-type: none"> • Consultancy • Optimization concepts • Process engineering • Mechanical design • Supply of process gas cooler (PGC), superheater and spare parts
	<p>Technical Data</p> <ul style="list-style-type: none"> • Gas temperature: up to 1200°C • Gas pressure: up to 40 bar • Steam pressure: up to 140 bar 	

Reference List Excerpt

Process Gas Cooler Downstream Secondary Reformer

Scope	Client
Engineering of a waste heat boiler downstream secondary reformer, 160 t/h, ammonia plant YAT E904B, Trinidad and Tobago	YARA Trinidad Ltd., Trinidad and Tobago
Engineering and supply of a waste heat boiler downstream secondary reformer, 214 t/h, E2016 Tringen 1, Trinidad and Tobago	YARA Trinidad Ltd., Trinidad and Tobago
Basic and detail engineering for a process gas cooler downstream secondary reformer, Mopco Ammonia/Urea Plant, Egypt	Balcke-Dürr GmbH for ThyssenKrupp Industrial Solutions AG (former Uhde GmbH), Essen, Germany
Detail engineering for a waste heat boiler downstream secondary reformer, U-tube design, 120 t/h, Ferrara plant, Italy	YARA SpA, Ferrara, Italy
Basic and detail engineering for a process gas cooler downstream secondary reformer, Jinxi plant, China	Babcock Power Espana S.A., Valle de Trapaga-Vizcaya, Spain
Engineering and supply of a waste heat boiler downstream secondary reformer in ammonia plant, syngas flow: 135 t/h, steam production 118 t/h, E301 Sluiskil ref C, Netherlands	Yara Sluiskil B.V., Sluiskil, Netherlands
Engineering and supply of a process gas cooler downstream secondary reformer E0205 A&B, Motunui, New Zealand	Methanex New Zealand Ltd., Motunui, New Zealand
Engineering and supply of a process gas cooler downstream secondary reformer 303 E 001 and superheater 303 E 002, Suez, Egypt	Krupp Uhde GmbH, Dortmund, Germany
Engineering and supply of a process gas cooler downstream secondary reformer 303 E 001, Al-Jubail, Saudi Arabia Fertilizer Company, Saudi Arabia	Tecnimont S.p.A., Milano, Italy
Engineering and supply of a process gas cooler downstream secondary reformer 303 E 001 and superheater 303 E 002, Abu Qir, Egypt	Uhde GmbH, Dortmund, Germany
Engineering and supply of a process gas cooler downstream secondary reformer 03 E 001, Belle Plain, Canada	Saskferco Products Inc. Regina, Saskatchewan, Canada (now Yara Belle Plain)
Engineering and supply of a process gas cooler downstream secondary reformer E-2104, Stanlow, Great Britain	Shell UK, Stanlow, Great Britain

Legend:

PS – Power Station
PF – Pulverized Fuel
CHP – Heat and power plant

SCR – Selective Catalytic Reduction
STP – Standard Temperature and Pressure
HRSG – Heat Recovery Steam Generator

FGD – Flue Gas Desulphurization
CFB – Circulating Fluidized Bed
ESP – Electrostatic Precipitator

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