

## SE\_300132\_Jaunolaine

Ausrüstungsliste

Legende zu R&amp;I Schema

Erstellt	pla	21.05.2014
Aktueller Index		01

KKS	Description	Funktion	Kundenschnittstelle	Rev.
HTA01AA101	actuator flue gas damper 1			
HTA01AA101z	3/2 magnetic valve Namur			
HTA01AA101zz	throttle valve			
HTA01BR001	Flue gas pipe before damper 1			
HTA01BR001	Flue gas pipe before damper 1			
HTA01BR002	Flue gas pipe damper-chimney			
HTA01BR002	Flue gas pipe damper-chimney			
HTA01BR003	Flue gas pipe damper-condenser			
HTA01BR004	Flue gas pipe condenser-filter			
HTA01BR005	Flue gas pipe filter-flue gas fan			
HTA01BR005	Flue gas pipe filter-flue gas fan			
HTA01BR006	flue gas fan-chimney			
HTA01CG101H/L	limit switch flue gas damper 1 position	CG		
HTA01CT001	Temperature flue gas before flue gas damper 1	TISA+		
HTA01CT001z	Thermowell 250mm			
HTA01CT002	Temperature flue gas after Wesp	TISA+		
HTA01CT002z	Thermowell 250mm			
HTA03AA101z	3/2 magnetic valve Namur			
HTA03AA101zz	throttle valve			
HTC01AN001	Flue gas fan			
HTC01BR001	Condensate pipe of fan			
HTC01BR801	Compensator			
HTC01BR801Z	Compensator clamp 2 pcs			
HTC01BR802	Compensator			
HTC01BR802Z	Compensator clamp 2 pcs			
HTD01AA001	Emergency cooling solenoid valve (slow-closing) NO			
HTD01AA002	Water supply solenoid valve (slow-closing) NC			
HTD01AA003	Water supply shut-off valve (slow-closing) NO			
HTD01AA011	Shut-off valve with actuator (copmressed air)			
HTD01AA011Z	5/2 magnetic valve Namur			
HTD01AA011zz	throttle valve			
HTD01AA021	Shut-off valve with actuator (copmressed air)			
HTD01AA021Z	5/2 magnetic valve Namur			
HTD01AA021zz	throttle valve			

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HTD01AA311	Drain valve process water tank 1			
HTD01AA321	Drain valve process water tank 2			
HTD01AA331	Drain valve compensation tank			
HTD01AA401	Ball valve to water treatment stage 1			
HTD01AA451	Ball valve to pH pump			
HTD01AA511	Ball valve pressure gauge stage 1 before heat exchanger			
HTD01AA512	Ball valve pressure gauge stage 1 after heat exchanger			
HTD01AA521	Ball valve pressure gauge stage 2 before heat exchanger			
HTD01AA522	Ball valve pressure gauge stage 2 after heat exchanger			
HTD01AC001	Flue gas condenser			
HTD01AC002	Heat exchanger			
HTD01AP011	process water pump stage 1			
HTD01AP021	process water pump stage 2			
HTD01BB011	Process water tank 1			
HTD01BB021	Process water tank 2			
HTD01BB031	Compensation tank			
HTD01BB050	conductivity electrode case			
HTD01BB052	pH- Electrode case			
HTD01BN001	Nozzle emergency cooler (inox)			
HTD01BN002	Nozzle water supply (inox)			
HTD01BN101-103	Inox Nozzles			
HTD01BN201-306	Plastic nozzles			
HTD01BR001	Water supply pipe			
HTD01BR002	Water supply pipe			
HTD01BR003	Water supply pipe			
HTD01BR011	Process water pipe stage 1 before heat exchanger			
HTD01BR012	Process water pipe stage 1 after heat exchanger			
HTD01BR013	Process water distribution pipe stage 1			
HTD01BR014	Process water distribution pipe stage 1			
HTD01BR015	Process water to water treatment pipe stage 1			
HTD01BR021	Process water pipe stage 2 before heat exchanger			
HTD01BR022	Process water pipe stage 2 after heat exchanger			
HTD01BR023	Process water distribution pipe stage 2			
HTD01BR024	Process water distribution pipe stage 2			

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HTD01BR501	Pipe to pH meaurment			
HTD01BR801	Compensator			
HTD01BR801Z	Compensator clamp 2 pcs			
HTD01BR802	Compensator			
HTD01BR802Z	Compensator clamp 2 pcs			
HTD01BR811	Compensator process water pipe stage 1			
HTD01BR812	Compensator process water pipe stage 1			
HTD01BR813	Compensator process water pipe stage 1			
HTD01BR814	Hose			
HTD01BR814Z	Hose clamp 2 pcs			
HTD01BR821	Compensator process water pipe stage 2			
HTD01BR822	Compensator process water pipe stage 2			
HTD01BR823	Compensator process water pipe stage 2			
HTD01BR824	Hose			
HTD01BR824Z	Hose clamp 2 pcs			
HTD01CF011	Volume flow measurement circulating pump 1 stage 1	FI		
HTD01CF021	Volume flow measurement circulating pump 1 stage 2	FI		
HTD01CG011H/L	linmit switch for actuator IA00-IA70	CG		
HTD01CG021H/L	linmit switch for actuator IA00-IA70	CG		
HTD01CL101	Analog level sensor compensation tank	LSA+/-		
HTD01CP001	Pressure measurement	PI		
HTD01CP011	Pressure process water pipe stage 1	PIS		
HTD01CP021	Pressure process water pipe stage 2	PIS		
HTD01CP511	Pressure process water stage 1 before heat exchanger	PI		
HTD01CP512	Pressure process water stage 1 after heat exchanger	PI		
HTD01CP521	Pressure process water stage 2 before heat exchanger	PI		
HTD01CP522	Pressure process water stage 2 after heat exchanger	PI		
HTD01CQ011	Conductivity and temperature process water	Q(Cl-)IS+		
HTD01CT011	Temperature process water stage 1	TI		
HTD01CT012	Temperature process water stage 1 after heat exchanger	TI		
HTD01CT012z	Thermowell 150mm			
HTD01CT021	Temperature process water stage 2 before heat exchanger	TI		
HTD01CT021z	Thermowell 150mm			
HTD01CT022	Temperature process water stage 2 after heat exchanger	TI		

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HTD01CT022z	Thermowell 150mm			
HTD01CT031	Temperature return flow before heat exchanger	TI		
HTD01CT031z	Thermowell 150mm			
HTD01CT032	Temperature return flow after heat exchanger	TI		
HTD01CT032z	Thermowell 150mm			
HTE01AA011	Solenoid Valve purge top (NC, slow closing)			
HTE01AA012	Solenoid Valve purge top (NC, slow closing)			
HTE01AA013	Solenoid Valve purge top (NC, slow closing)			
HTE01AA101	Solenoid valve (Shut-off) purge (NC, slow-closing))			
HTE01AC001	Isolator heater			
HTE01AP001	Sewage pump to lamella separator			
HTE01AT001	Wet electrostatic precipitator WESP			
HTE01AT101	Electrodes and support			
HTE01BB001	Collection tank			
HTE01BNxx	Nozzle			
HTE01BR001	Pipe water supply			
HTE01BR002	Pipe to water treatment			
HTE01BR011	high voltage conductor protection piping			
HTE01BR801	Compensator flue gas WESP inlet			
HTE01BR801Z	Compensator clamp 2 pcs			
HTE01BR802	Compensator flue gas WESP outlet			
HTE01BR802Z	Compensator clamp 2 pcs			
HTE01BR805	Hose			
HTE01BR805Z	Hose clamp 2 pcs			
HTE01BR807	Hose			
HTE01BR807Z	Hose clamp 2 pcs			
HTE01CL101	Level collection tank (level high)	LS		
HTE01GU001	High voltage unit			
HTE01UB001	Isolator			
HTM01AA001	Pneumatic valve			
HTM01AA001Z	Solenoid valve to pneumatic valve			
HTM01AA011	Solenoid valve to pneumatic valve			
HTM01AA012	Pneumatic valve			
HTM01AA012Z	Solenoid valve to pneumatic valve			

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HTM01AA031	Pneumatic valve			
HTM01AA031Z	Solenoid valve to pneumatic valve			
HTM01AA311	Ball valve to membrane pump lamella separator 1			
HTM01AA331	Drain valve sand filter			
HTM01AA341	Ball valve backflushing pump sandfilter			
HTM01AA351	Ball valve return pump			
HTM01AA731	Non-return valve sand filter			
HTM01AA741	Non-return valve backflushing pump			
HTM01AN031	sand filter backflushing compressor			
HTM01AP011	Pneumatic membrane pump			
HTM01AP041	sand filter backflushing pump			
HTM01AP051	Return pump to lamella separator			
HTM01AT011	Lamella separator 1			
HTM01AT031	Sand filter			
HTM01AT131	Compressor suction air filter			
HTM01AT231	Strainer			
HTM01BB041	Clear water tank			
HTM01BB051	Backflushing tank			
HTM01BN901-9xx	Sand filter nozzles PP			
HTM01BN901-9xxZ1	Rubber rings to nozzles			
HTM01BN901-9xxZ2	Washer PP to nozzles			
HTM01BR003	Return pipe to condensator			
HTM01BR011	Pipe			
HTM01BR012	Pipe			
HTM01BR031	Pipe			
HTM01BR032	Pipe			
HTM01BR033	Pipe			
HTM01BR042	Pipe			
HTM01BR801	Hose			
HTM01BR801Z	Hose clamp 2 pcs			
HTM01BR802	Hose			
HTM01BR802Z	Hose clamp 2 pcs			
HTM01BR811	Hose			
HTM01BR811Z	Hose clamp 2 pcs			

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HTM01BR831	Hose			
HTM01BR831Z	Hose clamp 2 pcs			
HTM01BR832	Hose			
HTM01BR832	Hose			
HTM01BR832Z	Hose clamp 2 pcs			
HTM01BR832Z	Hose clamp 2 pcs			
HTM01BR841	Hose			
HTM01BR841Z	Hose clamp 2 pcs			
HTM01BR851	Hose			
HTM01BR851Z	Hose clamp 2 pcs			
HTM01BR852	Hose			
HTM01BR852Z	Hose clamp 2 pcs			
HTM01BR853	Hose			
HTM01BR853Z	Hose clamp 2 pcs			
HTM01CL111	Level lamella separator 1 (Level high)	LS		
HTM01CL131	Level sand filter (level high)	LS		
HTM01CL141	Level clear water tank (level low)	LS		
HTM01CL151	Level backflushing tank (level low)	LS		
HTM01CP511	Pressure regulating valve	PI		
HTM01CP512	Pressure regulating valve	PI		
HTM01KA011	Vacuum breaker			
HTM01KT001	Fine-grained sand (top)			
HTM01KT002	Coarse-grained sand (bottom)			
HTS01AP051	pH dosing pump			
HTS01AP051Z	pH-dosing pump sucking kit			
HTS01BB051	Sodium hydroxide tank			
HTS01CQ051	pH-electrode	Q(pH)IS		