Natural Gas
1'980 kW

Exhaust
from engine

Rectifier
G600 WE
K79760

Dosing Mixer
DM600 WE
K-53063

Low-press. React. Inject.
DEN20.500.01
K-44521

Triangle Mixer
M600 WE
K-16250

Triangle Mixer
M600 WE
K-16250

Bellows

EM Converter
EM56.120
K-91151

RFV.0900.046.C5.00.S150.300.000
RFV.0900.046.C5.00.S150.300.000
Spare Layer
OCT.0860.046.A7.00.S150.300.000

Temp. Sensor
TEA330
K-50961

TI

Clean gas
from converter

Injection Port
E220 WE
K-73001

AIR	
8	-
1	40
INOX/NFM/PTFE	
Ø12x10mm	
2m	

REACTANT	
-	6
1	40
INOX/PTFE	
Ø6x4mm	
2m	

TI

K-49641
UT
Temp. Monitor

K-21154
LS1075.01
Sample Probe

K-21154
LS1075.01
Sample Probe

SAMPLE GAS	
0.08	-
-0.12	40
INOX/PTFE	
Ø8x6mm	
50m	

additional condensate trap

additional condensate trap

Engine Control
CPU

Dosing box
SEN6.01
K-61958

M

PS

Control Unit
SNQ20.01.mg2
K-81168

.ops

PLC

QC
NOx

CONDENSATE	
-	0.5
-	30
INOX/PA/PTFE	
Ø6x4mm	
-	

Condensate Out
from SNQ

230V 1Phase 50Hz
Power Supply

Compressor unit
CA20.1P.230.01
K-66839

PSU

230V 1Phase 50Hz
Power Supply

service valve at dosing unit inlet is applicable if dosing unit niveau is below pump niveau

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AIR	
8	-
1	40
INOX/NFM/PA/PTFE	
Ø12x10mm	
50m	

REACTANT	
-	27
-0.3	40
INOX/PA/PTFE	
Ø8x6mm	
3m	

REACTANT	
-	27
3	40
INOX/PA/PTFE	
Ø8x6mm	
5m	

Reactant supply pump
VPN20.01
K-58378

PI

Reactant Tank

Reactant
from tank

MAXIMUM SUCTION HEIGHT OF PUMP
3.0 METER

Reactant
Returnflow to tank

niveau sensor

service valve

service valve

service valve at pump outlet is applicable if pump niveau is below dosing unit niveau

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REACTANT	
-	6
3	40
INOX/PA/PTFE	
Ø6x4mm	
50m	

Information

- for further details regarding the electrical wiring refer to the according wiring diagrams
- it is up to the customer to provide a low level switch for the reactant tank. The SCR control unit provides an according dry contact (NO)
- position and erection of bearings or bellows of converter and/ or connected pipe sections according to C.02048

NOTICE

- mount the TEA330 temperature transmitter on a horizontal positioned measuring port
- install the CA compressor unit within a low-dust environment
- distance between SEN Dosing Box and DEN Injector shall not exceed 2 Meter
- install the SNQ NOx control unit within a low-dust environment
- sample gas lines must be executed with a steady slope towards the SNQ NOx-Control Unit
- lines and line segments with reactant or sample gas which are located outside any building (T < 5°C) must be insulated and trace heated
- do not mount the UT housing on any hot surface. Mount the UT on a separated panel close to the converter
- the UT must be fully parametrized and operational when the engine is operated for the first time with an installed catalyst
- mount the UT temperature sensor directly behind the first exhaust gas catalyst layer.

Line Coding

Ident. Nr	
Medium	
m^3/h	l/h
bar	°C
Pipe Material	
Dimension	
Max. Length	

SUPPLIED BY **CUSTOMER**

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Instruments
according to EN ISO 3511 if not further indicated

Symbols
according to EN ISO 10628 if not further indicated

- Pulsation damper
- Water separator
- Flow meter
- Over flow valve
- Programmable logic
- Pressure regulator

Line Coding

- general
- flexible hose
- Exhaust
- Water
- Air (compressed / instrument)
- Reactant
- Sample Gas
- Power Supply
- el. Signal
- Ethernet / bus connection
- analog connection
- heated line

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Rev.	Date	Name

	Date	Name
Drawn	16.03.2015	ANWA
Checked	16.03.2015	SEES
Status	approved	
Update		

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(Scale) Not applicable (Weight) Not applicable

(Material) Not applicable

Piping & Instrumentation Diagram

A-11436 – CPL Politecnico di Milano

PID-11436

page	of
1	1

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