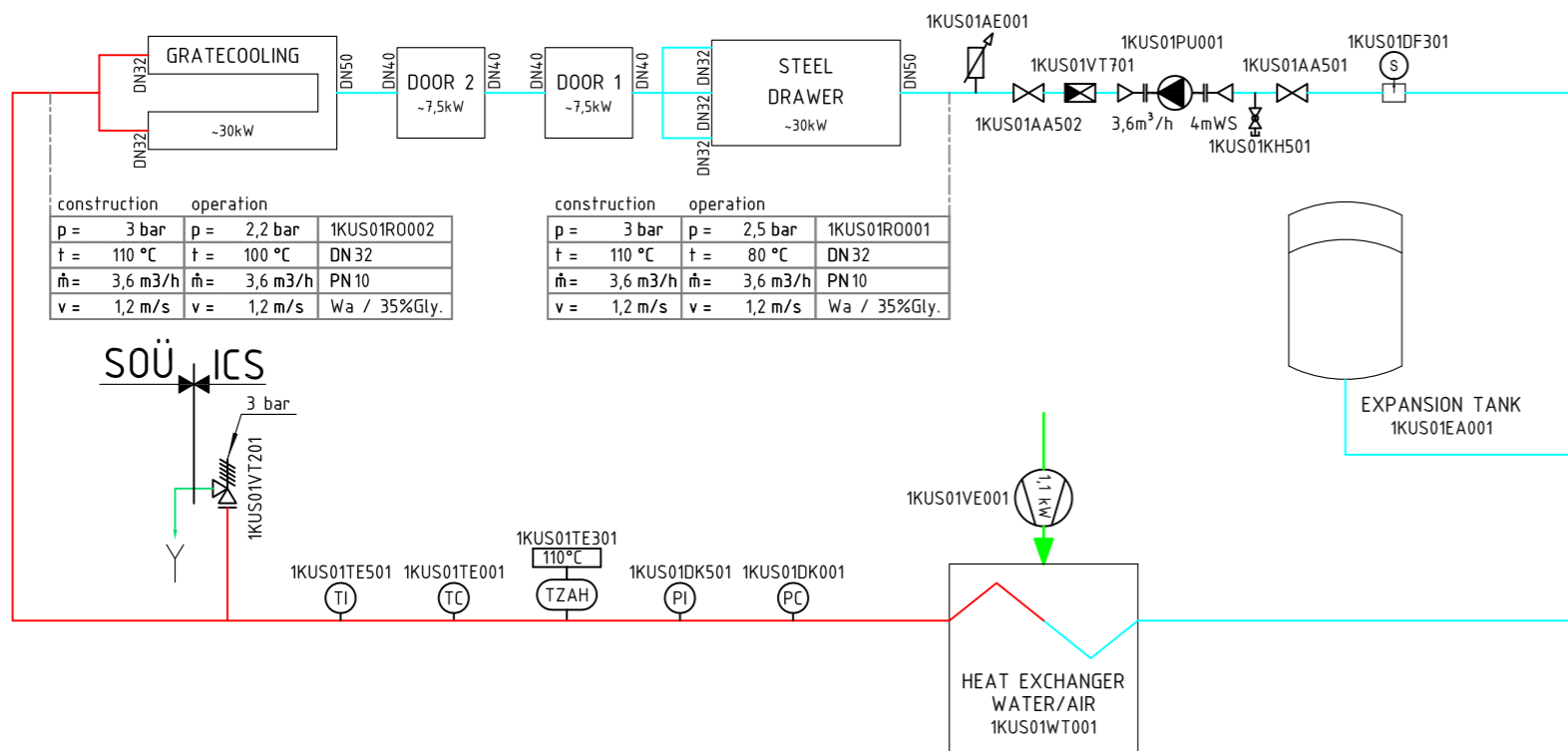
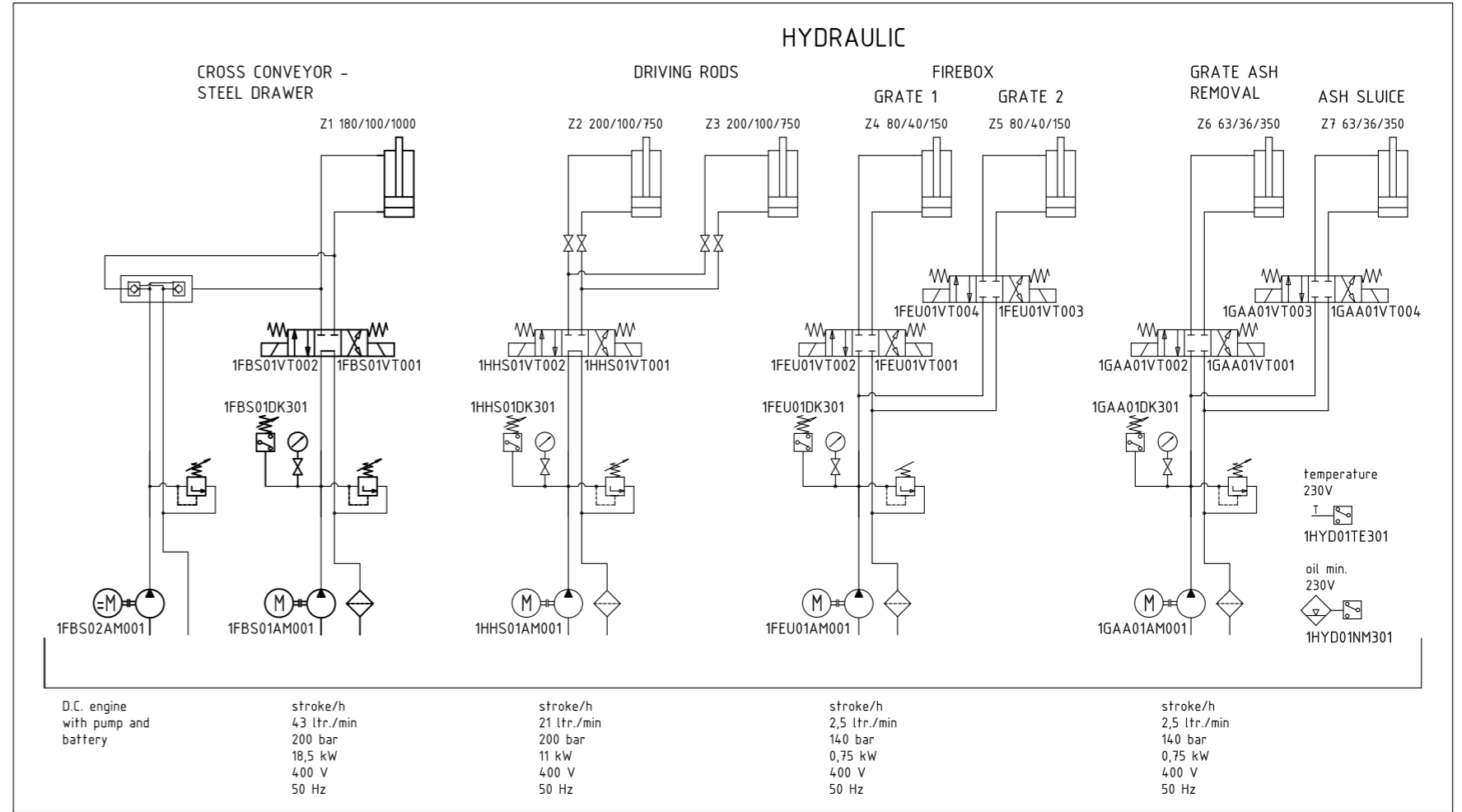


cooling:	
max. power:	75 kW
max. working pressure:	3 bar
max. working temp.:	110 °C
max. pressure drop:	0,4 bar
min. flow:	3,2 m ³ /h
max. flow:	10 m ³ /h
medium:	water / 35%Gly.



construction		operation	
p = 3 bar	p = 2,2 bar	1KUS01R0002	
t = 110 °C	t = 100 °C	DN32	
m = 3,6 m ³ /h	m = 3,6 m ³ /h	PN10	
v = 1,2 m/s	v = 1,2 m/s	Wa / 35%Gly.	

construction		operation	
p = 3 bar	p = 2,5 bar	1KUS01R0001	
t = 110 °C	t = 80 °C	DN32	
m = 3,6 m ³ /h	m = 3,6 m ³ /h	PN10	
v = 1,2 m/s	v = 1,2 m/s	Wa / 35%Gly.	

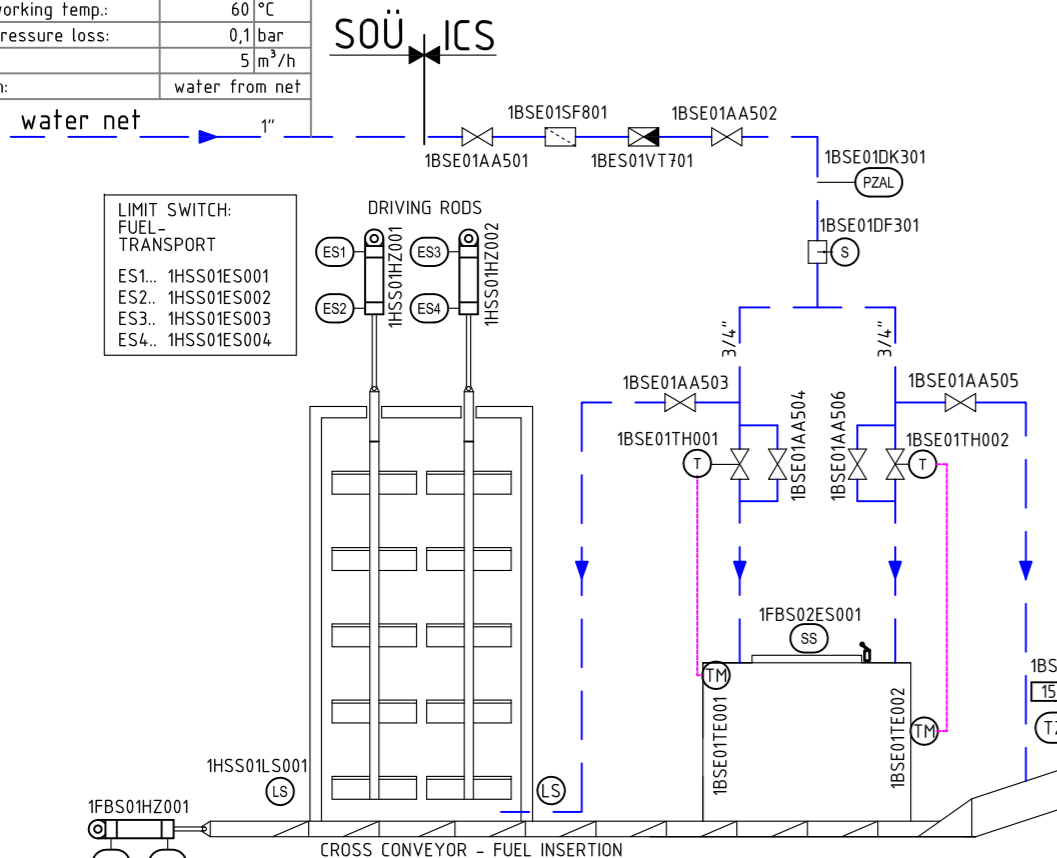


temperature	230V
oil min.	230V

LABEL:

- cold water - glycol, mixed
- hot water - glycol, mixed
- water net
- fresh air
- exhaust gas
- pipe into the open
- signal line
- ash
- reduction
- flow direction
- limit of supply

water supply, firewater system:	
min. working pressure:	1,5 bar
max. working pressure:	5 bar
min. working temp.:	0 °C
max. working temp.:	60 °C
max. pressure loss:	0,1 bar
flow:	5 m ³ /h
medium:	water from net



LIMIT SWITCH: FUEL-TRANSPORT

ES1... 1HSS01ES001
ES2... 1HSS01ES002
ES3... 1HSS01ES003
ES4... 1HSS01ES004

LIMIT SWITCH: grate:

ES1... 1FEU01ES001
ES2... 1FEU01ES002
ES3... 1FEU01ES003
ES4... 1FEU01ES004

LIMIT SWITCH: ash removal:

ES5... 1GAA01ES001
ES6... 1GAA01ES002

SYMBOLS:

- shut off valve
- non return valve
- circuit control valve
- thermo-mechanical valve
- two way regulating valve with motor drive
- drain
- safety valve
- flow control device
- pump
- automatic air vent

ICS	ICS ENERGIETECHNIK
SOÜ	STARFELD OÜ - VILJAMAA OÜ

ES	limit switch
FS	humidity sensor
FU	frequency converter
FZAL	flow limitation
H	hydraulically
LS	light barriers
LSO	lambda probe
LZAL	lowest water level - level measurement (boiler)
M	engine
NA	emergency stop
P	pressure
PC	pressure measurement control room
PG	encoder
PI	pressure measurement local
PZAH	pressure limitation highest value
PZAL	pressure limitation lowest value
S	flow control device
SS	safety switch
T	temperature
TC	temperature measurement control room
TI	temperature measurement local
TM	temperature measurement thermo-mechanical
TZAH	temperature limitation highest value
TZAL	temperature limitation lowest value
WZ	heat counter

XXX	add 1HLS01ES001, 1HLS01ES002, 1ATS01TE001	XX.XX.201X
		21.03.2013
	change	date

ICS ENERGIETECHNIK GESMBH
A-8062 Kumberg, Rabnitzweg 10, Austria
tel. 0043 3132 210 92, e-mail office@ics-austria.at

scale: none
material:
pipenumber:
modell-nr:
Starfeld OÜ - Viljamaa OÜ
Project, 87619, Oriküla village, Estland
HYDRAULIC SCHEMA

date	name
drawn 21.03.2013	M. Loidolt
controlled 21.03.2013	B. Loder-T.
standard	



drawing nr:	HLE SOÜ - AS - 2013.03.21 - 1.1	1
		A2
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Additional information:

- All plans, schemes and calculations have to be controlled by the responsible company before production.
- A fire-protection installation has to be realized in compliance with the national laws of the country, in which the plant will be delivered.

OUTSIDE TEMPERATURE MEASURE
1ATS01TE001