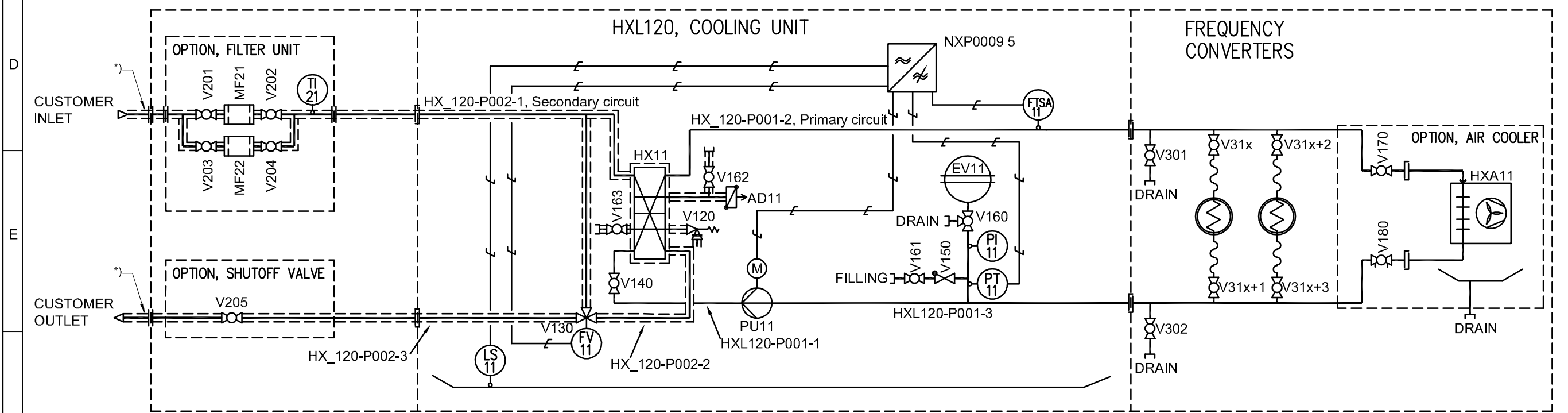


1	2	3	4	5	6	7	8
		Code	Pcs.	Material	Note.	Name	Nominal pressure
A	*) To be cold insulated, e.g. with polyethylene, if the temperature of the liquid in the secondary circuit is lower than the ambient temperature and the relative humidity is high.	PU11 **)	1	AISI304 / 316	Vacon delivery	Pump Ebara EB 3M 40-160/3, 3x400V /50 Hz, 3kW	PN10
		HX11	1	AISI316 / Cu-brazed	Vacon delivery	Plate heatexchanger 2" / 1 1/2"	PN25
		HXA11	1	Cu / Al	Vacon delivery (option)	Water/Air heatexchanger 3/4"	-
		EV11	1	AISI304 / Butyl	Vacon delivery	Pressure vessel 3/4", pre-pressured to 100kPa, cap.8 litre Connection stainless steel, inside vessel epoxy coating, butyl diaphragm	PN10
		MF21..22	2	-	Vacon delivery (option)	Y-Strainer	-
		AD11	1	AISI304 / 316	Vacon delivery	Automatic de-airing unit 3/8"	PN16
		FTSA11	1	AISI304 / 316	Vacon delivery	Flowswitch 1/2", with analog temperature outlet	PN60
		PI11	1	AISI304 / 316	Vacon delivery	Pressure indicator 1/4", 0-10 bar	PN20
		PT11	1	AISI304 / 316	Vacon delivery	Pressure transmitter 1/4", 0-10 bar	PN20
		TI21	1	-	Vacon delivery (option)	Temperature indicator 1/2", 0-60°C	-
B	**) Alternative pump: Pump KL, 6.4A, 3x400V, 50Hz, JP151, 3kW, PN10, motor turned 180°, Kolmeks, KL401602300	LS11	1	-	Vacon delivery	Leakage switch 24V AC/DC, 70mA	-
		V120	1	AISI304 / 316	Vacon delivery	Safety valve 1/2", reliefpressure 6bar Body bronze, nozzle and disc stainless steel	PN25
		V130	1	EN-JS1030, CW602N	Vacon delivery	Regulating valve DN32 + actuator (FV11)	PN16
		V140	1	PVC-C	Vacon delivery	Ballvalve DN40	PN16
		V150	1	AISI304 / 316	Vacon delivery	Non-return valve 1/2"	PN40
		V160	1	AISI304 / 316	Vacon delivery	Ballvalve 3-way 3/4", threaded	PN64
		V161..63	3	AISI304 / 316	Vacon delivery	Ballvalve 1/2", threaded	PN64
		V170	1	AISI304 / 316	Vacon delivery (option)	Ballvalve 1/2"	-
		V180	1	Brass	Vacon delivery (option)	Balancing valve 1/2"	-
		V201..05	5	-	Vacon delivery (option)	Ballvalve	-
C		V301..02	2	AISI304 / 316	Projectspecific delivery	Ballvalve 1/2", threaded	-
		V31x..	-	AISI304 / 316	Projectspecific delivery	Ballvalve 1/2", threaded	-
		NXP0009 5	1	-	Vacon delivery	Frequency converter, NXP 0009 5A5H1 SSS A1A2B500C5	-



REV.	DATE	MADE	APPR	DESCRIPTION
e	03.12.2008	A-M. Haka	U. Kähtävä	Pump changed
d	26.06.2007	A-M. Haka	J-P. Sampola	Nominal pressures added, P&ID only for PVC
c	11.10.2006	U. Kähtävä	J-P. Sampola	FC and control signals added
b	09.09.2005	A-M. Haka	J-P. Sampola	Insulate added in secondary circuit
a	25.05.2005	A-M. Haka	J-P. Sampola	PT11 added in list, HXA11 place changed



Project **STD HX-unit**
 Customer -
 Doc. no.
 Cust. ref.

Title
HXL120
 PVC-C Piping
 P&ID

Prepared **M.Forsén 25.10.2004**
 Checked **K.Hofman 25.10.2004**
 Approved **J-P.Sampola 25.10.2004**
Vacon Oyj

DCC &
 Based on **VL39-5023-01**
 Proj. no. **VL39-5020-01**
 Doc. no.
 Revision **e**

Object =
 Loc. +
 Sheet **1/1**
 Cont.