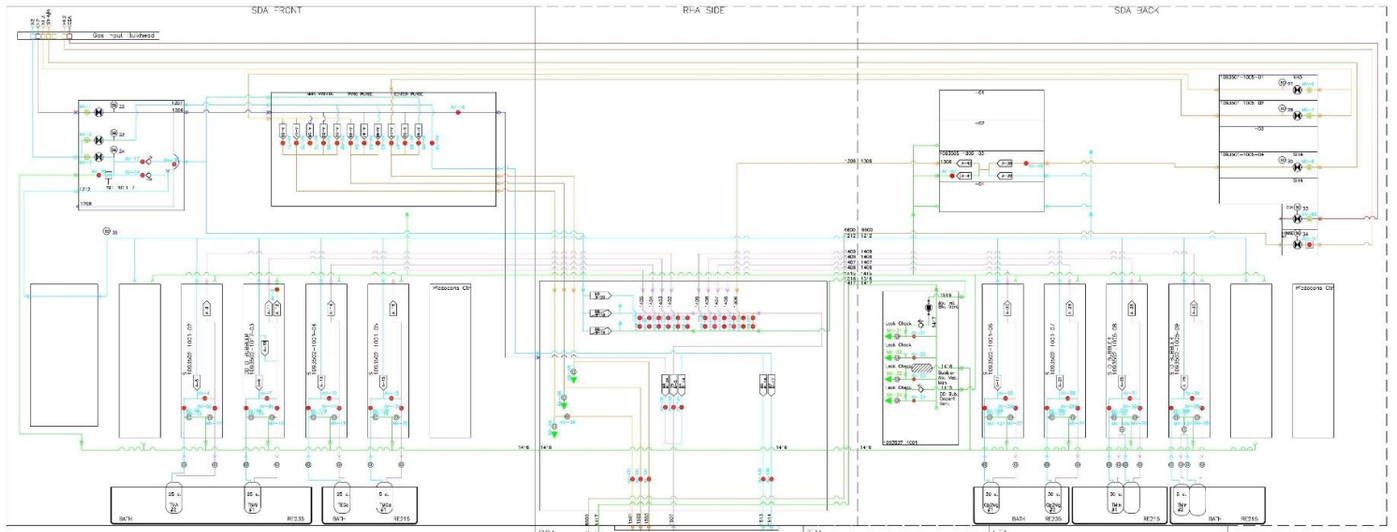
NOTES:
1. ALL NH3 WETTED MFC'S USE KALREZ TIP.
   ALL MFC'S AND PC'S TO BE METAL SEALED.
2. MANUAL VALVE HANDLE COLOR CODE:
   WHITE – VAC RED – H2
   BLUE – AIR GREEN – N2
   YELLOW – TOXICS
3. BUBBLER LEG INLETS & OUTLET LEGS ARE 1/8" DIA.
4. VEECO DOES NOT SUPPLY SOURCE MATERIAL.
5. VENDOR TO SUPPLY LOCKOUT TAGOUT DEVICES.
6. ALL LOREX PIEZOCON'S INCLUDE FEEDBACK CONTROL AND WILL BE ALLOCATED AN ANALOG CHANNEL.
7. 20um VCR FILTER GASKET P/N: 1015365 INSTALLED AS ORIFICE RESTRICTOR.
8. HUB PUMP BALLAST FLOW RATE RECOMMENDED SETTING: 8.33 L/MIN.
9. ORIFICE 1/4" VCR GASKET P/N: 1097076 (2000um) INSTALLED ON LINE OF AV145, 1097075(500um) INSTALLED ON LINE OF AV146



SDA DEVICES (NETWORK A)

ID / SOURCE	MFC and PC Range	MFC CALIBRA ON CONDITIONS Pin	Pout	PC PRESSURE RANGE Min Max (Torr)	Max (Torr)	CA DAS	VI ID#
A-01	500	20 PSIG	C PSIG	–	–	H2	1097270-2038-3-H
A-02	500	–	–	10K	D	H2	1097270-2121-0-N
A-03	200	20 PSIG	C PSIG	–	–	H2	1097270-2038-3-H
A-04	1000	20 PSIG	C PSIG	–	–	H2	1097270-2136-0-M
A-05	200	20 PSIG	C PSIG	–	–	H2	1097270-2038-3-H
A-06	1000	–	–	200	D	H2	1097270-4130-0-M
A-07	1000	20 PSIG	C PSIG	–	–	H2	1097270-2136-0-M
A-08	1000	–	–	800	800	H2	1097270-4136-0-M
A-09	1000	–	–	800	800	H2	1097270-4136-0-M
A-10	2000	20 PSIG	C PSIG	–	–	H2	1097270-2011-0-N
A-11	1000	–	–	800	D	H2	1097270-4136-0-M
A-12	1000	20 PSIG	C PSIG	–	–	H2	1097270-2136-0-M
A-13	1000	–	–	700	D	H2	1097270-4130-0-M
A-14	1000	–	–	700	D	H2	1097270-2130-0-M
A-15	1000	20 PSIG	C PSIG	–	–	H2	1097270-2130-0-M
A-16	1000	–	–	700	D	H2	1097270-4130-0-M
A-17	500	20 PSIG	C PSIG	–	–	H2	1097270-2038-3-H
A-18	500	–	–	10K	D	H2	1097270-2121-0-N
A-19	200	20 PSIG	C PSIG	–	–	H2	1097270-2038-3-H
A-20	7000	20 PSIG	C PSIG	–	–	H2	1097270-2011-0-N
A-21	100	200 TORR	200 TORR	–	–	H2	1097270-2121-0-N
A-22	7000	–	–	800	D	H2	1097270-2136-0-M
A-23	20000	20 PSIG	C PSIG	–	–	H2	1097270-2067-0-M
A-24	70000	20 PSIG	C PSIG	–	–	H2	1097270-2067-0-M
A-25	10000	20 PSIG	C PSIG	–	–	H2	1097270-2067-0-M
A-26	500	20 PSIG	C PSIG	–	–	H2	1097270-2121-0-M
A-27	500	20 PSIG	C PSIG	–	–	H2	1097270-2121-0-M
A-28	200	20 PSIG	C PSIG	–	–	H2	1097270-2121-0-M
A-29	200000	20 PSIG	C PSIG	–	–	H2	1097270-3038-3-H
A-30	220000	20 PSIG	C PSIG	–	–	H2	1097270-3038-3-H
A-31	80000	20 PSIG	C PSIG	–	–	H2	1097270-3083-3-H
A-32	30000	20 PSIG	C PSIG	–	–	H2	1097270-2121-0-N
A-33	30000	20 PSIG	C PSIG	–	–	H2	1097270-2121-0-N

RHA DEVICES (NETWORK B)

ID / SOURCE	MFC and PC Range (sccm)	MFC CALIBRA ON CONDITIONS Pin	Pout	PC PRESSURE RANGE Min (Torr)	Max (Torr)	CA DAS	VI ID#
B-01	500	300 TORR	230 TORR	–	–	H2	1097270-2014-0-M
B-02	30000	30 PSIG	0 PSIG	–	–	H2	1097270-2121-0-N
B-03	30000	30 PSIG	0 PSIG	–	–	H2	1097270-2038-3-H
B-04	30000	30 PSIG	0 PSIG	–	–	H2	1097270-2038-3-H
B-05	10000	–	–	30	1000	H2	1097270-2132-3-M
B-06	10000	–	–	30	1000	H2	1097270-2132-3-M
B-07	2000	30 PSIG	0 PSIG	–	–	H2	1097270-2011-0-N
B-08	30000	30 PSIG	0 PSIG	–	–	H2	1097270-2121-0-N

LEGEND

VDI FT ( ) = ALKY. LINES
SELEC ( ) = "SILK" GAS LINES
DWN ( ) = ½"PGBEN/VACUUM LINES
N UP ( ) = ¼"PGBEN GAS LINES
CLOCK ( ) = CLOCO MODULES
BOX ( ) = SDA
BOX ( ) = RHA/HT BD
= DUAL FLOW AIR OPERATED VALVE
= NORMALLY CLOSED AIR OPERATED VALVE
= NORMALLY OPEN AIR OPERATED VALVE
= NORMALLY CLOSED HIGH PRESSURE VALVE
= NORMALLY OPEN HIGH PRESSURE VALVE

NEEDLE VALVE
MANUAL VALVE
CLICK VALVE
THROTTLING VALVE
PNEUMATIC GATE VALVE
REGULATING VALVE
MANUAL BALL VALVE
PNEUMATIC BALL VALVE
MASS FLOW CONTROLLER (MFC)
MASS FLOW METER (MFM)
PRESSURE CONTROLLER (PC)
NEW / PC
VACUUM SWITCH
SWITCH GAUGE
BARATRON GAUGE
PIRANI/ BARA RON GAUGE
PRESSURE GAUGE
DIAPHRAGM PRESSURE GAUGE
ION GAUGE
CONVECTRON GAUGE
LOW PRESSURE REGULATOR
PRESSURE REGULATOR
PARTICLE FILTER
PAN FILTER
BINARY GAS MONITOR
FILTER
TOXIC MONITOR
"GAS SENSITIVE" PORT
LEAK DETECTION PORT
SPOOL PIECE
BATH
AIR/H2 BUBBLER
(TYPICAL AIR/H2 SUPPLIER)
ROTAMETER
FLANGE
SWAGELOK
VCR FITTING
MANUAL LOCK-OUT TAG-OUT
PNEUMATIC LOCK-OUT TAG-OUT

TITLE: LATTICE POWER K465i GaN GAS SCHEMATIC DIAGRAM