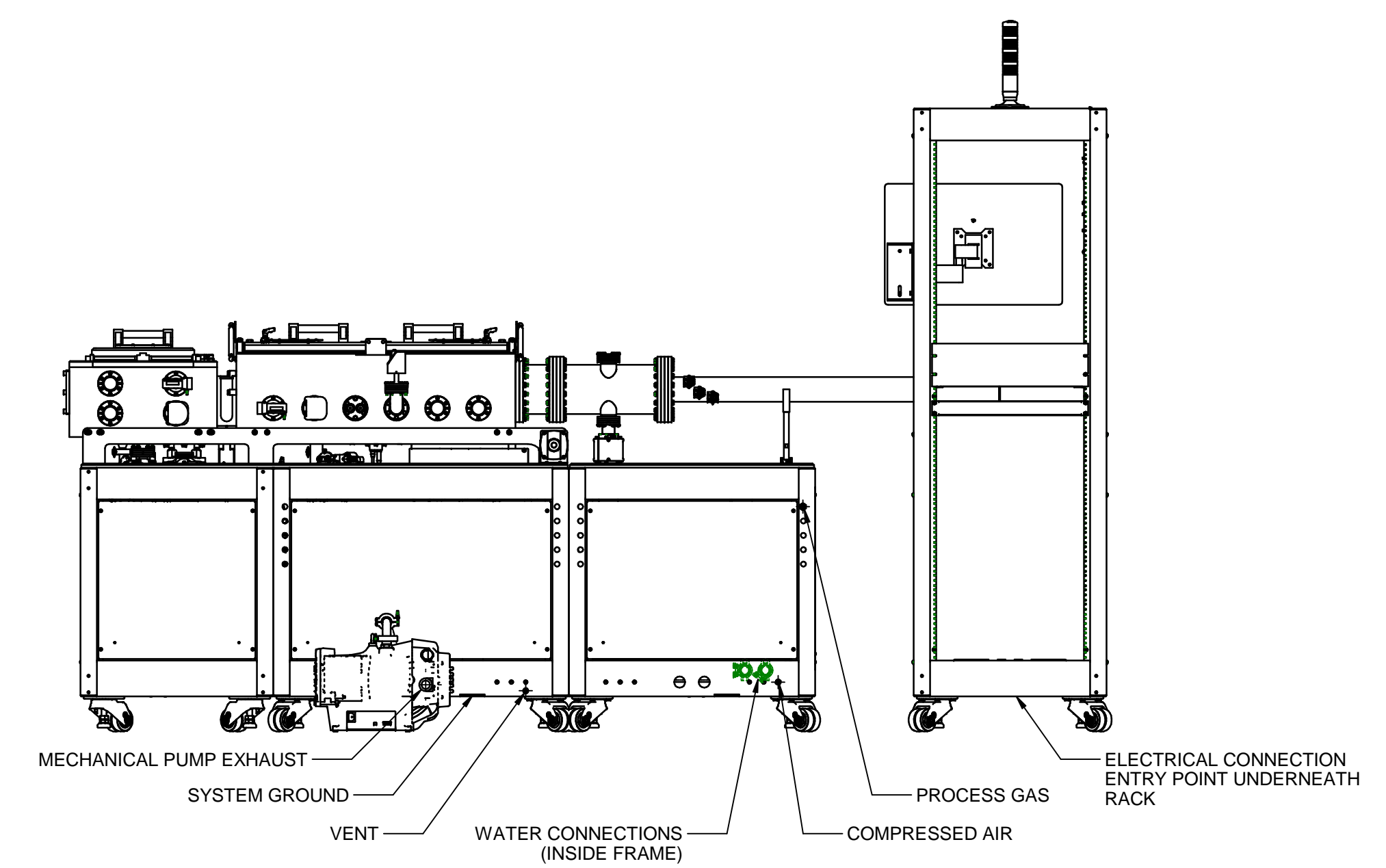
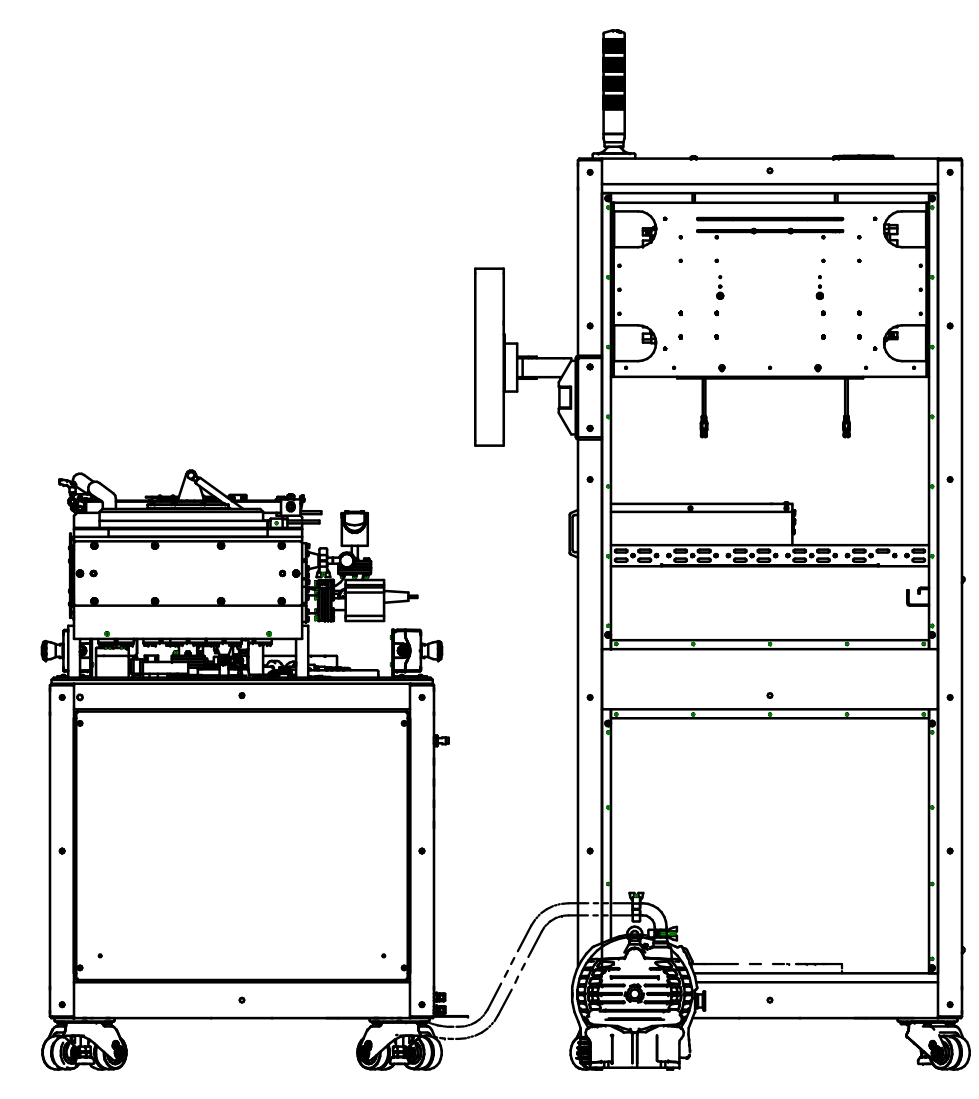
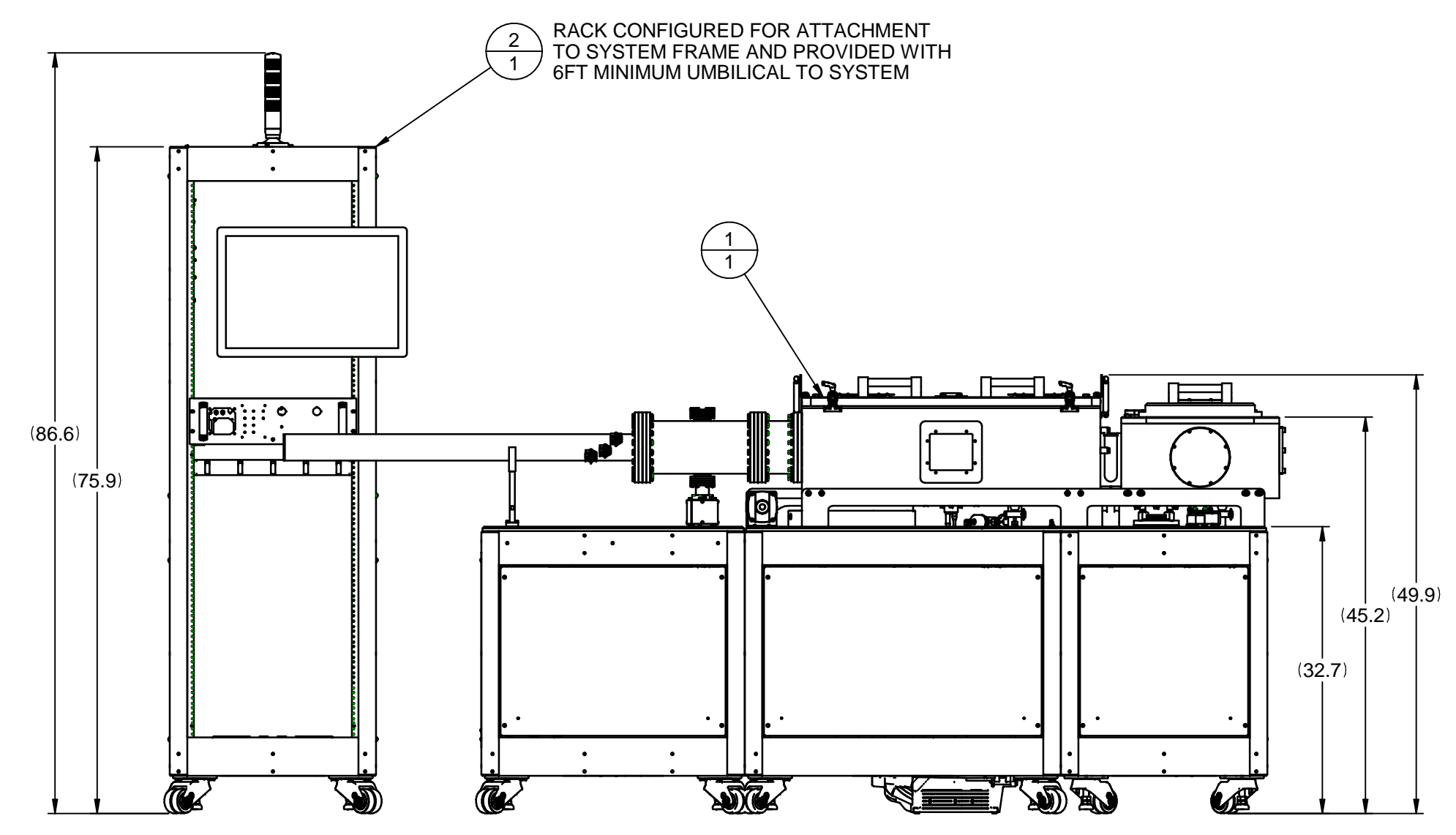
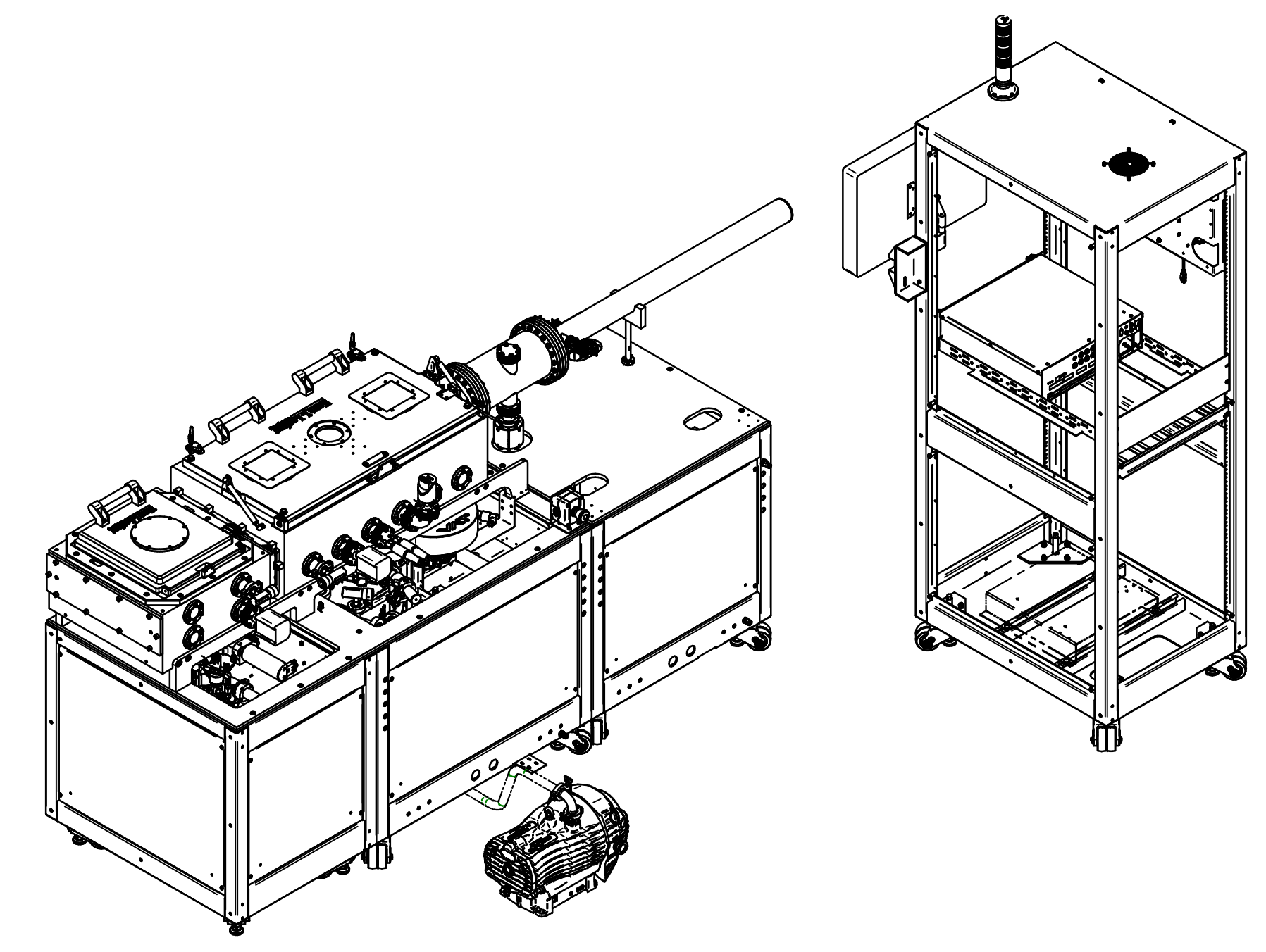
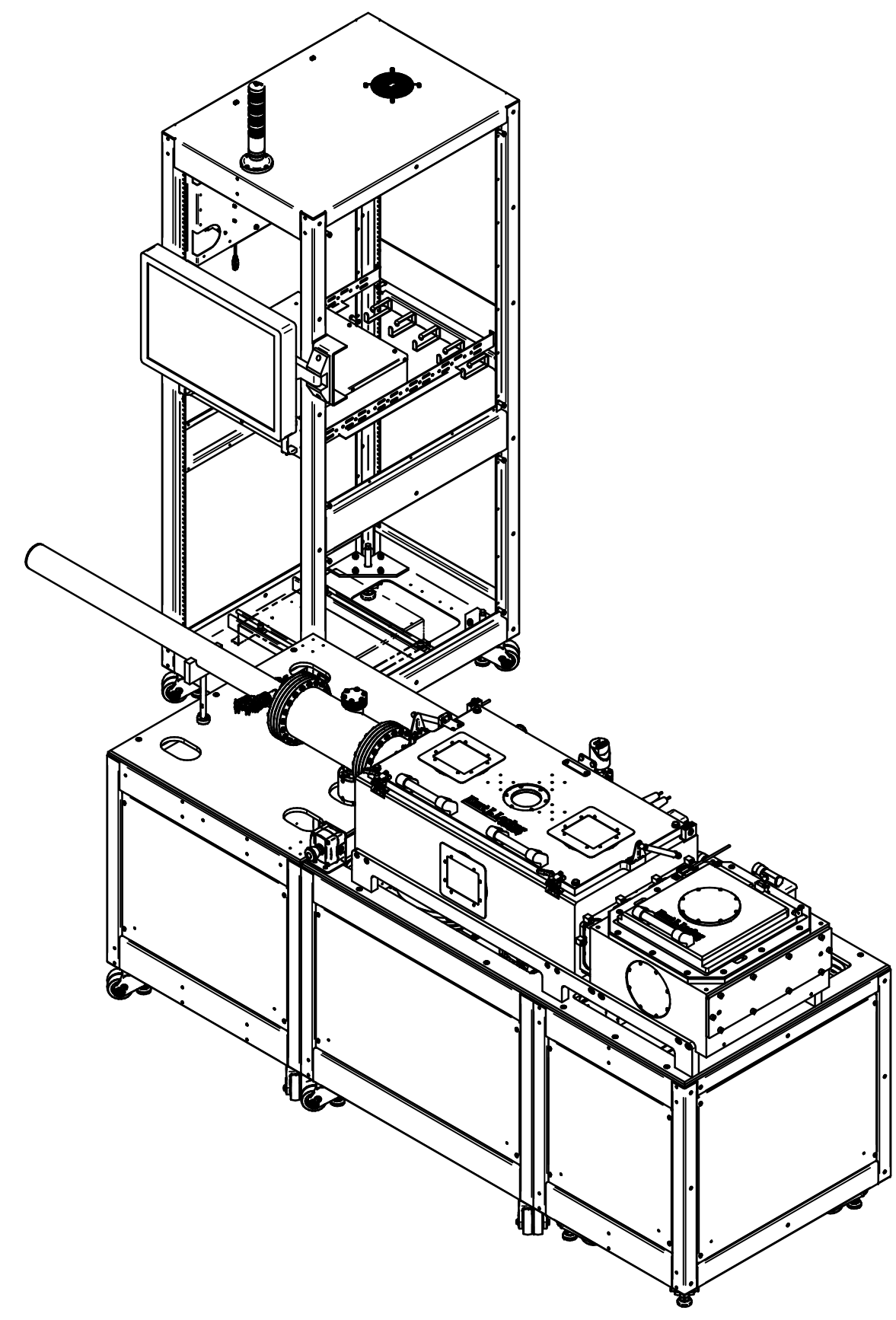
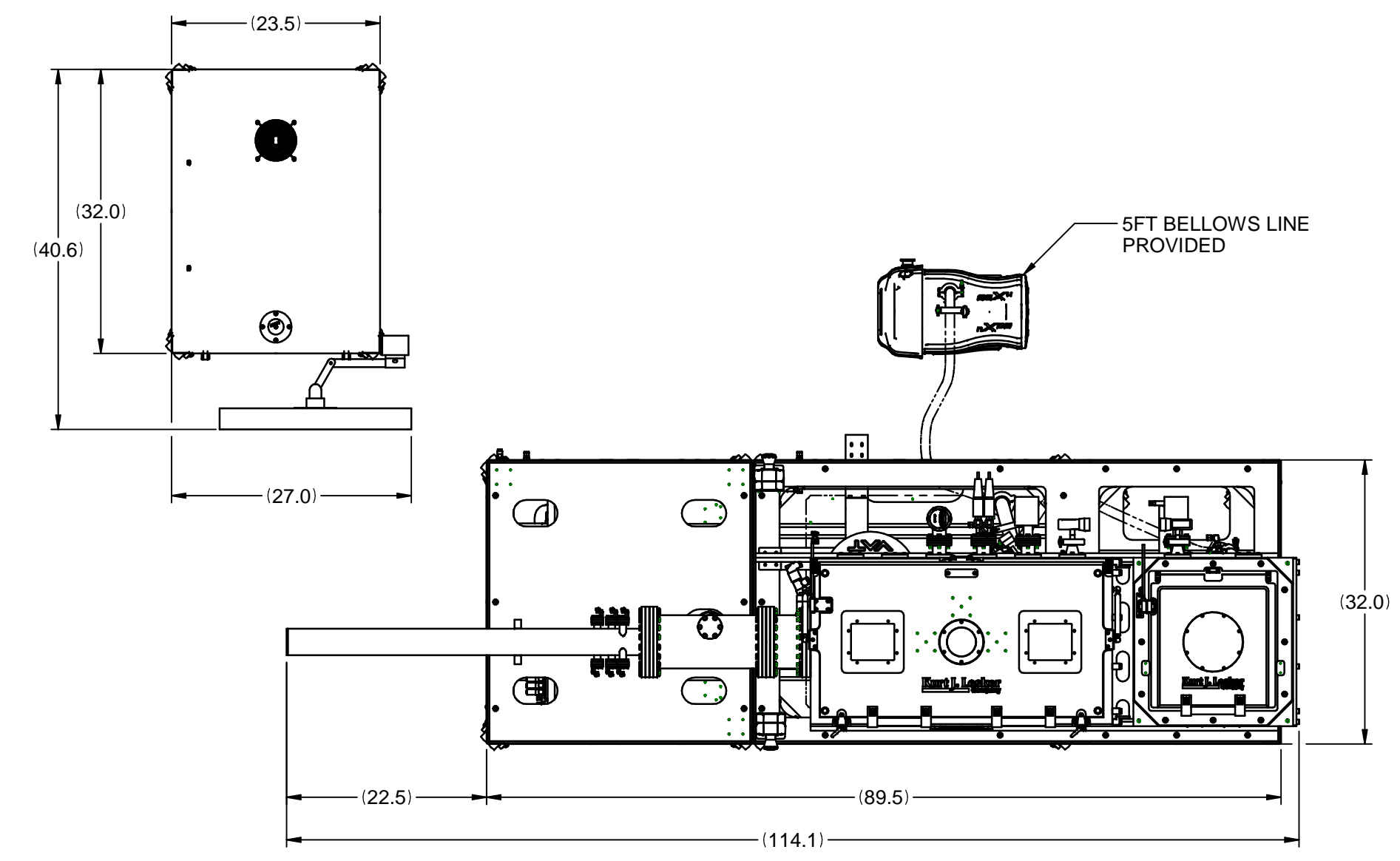


UTILITY REQUIREMENTS SUMMARY (SEE OPERATION MANUAL FOR SITE PREPARATION)				
ITEM	TYPE	CONNECTION	POWER/FLOW/PRESSURE	USE
01	ELECTRICAL	FLYING LEADS	208V 60Hz 3ph @ 60A, 5kA SCCR, 14 FLA, 5 WIRE	POWER DISTRIBUTION, SYSTEM
02	WATER	1" FNPT	1 gpm FILTERED WATER AT 25 deg C, 60-70 PSI (50 MICRON FILTER)	INSTRUMENT COOLING
03	AIR	6 mm SWAGelok	COMPRESSED AIR, 80 PSI, DRY, NON-LUBRICATED	VALVE ACTUATION
04	GAS	6 mm SWAGelok	DRY NITROGEN, 10 PSI	VENT (IF APPLICABLE)
05	PROCESS GAS	1/4" MVCR	PROCESS GASES, 5-7 PSI	PROCESS GASES
06	ELECTRICAL, FUNCTIONAL EARTH		DEDICATED EARTH GROUND	SYSTEM GROUND
07	COMM.		TCP/IP INTERNET CONNECTION (RJ45)	SERVICE/SOFTWARE SUPPORT
08	EXHAUST, MECH PUMP	QF25	NEGATIVE PRESSURE, 6.7CFM, nXDS10i	MECHANICAL PUMP EXHAUST

BILL OF MATERIALS					
POSN	ITEM ID	NAME	DESCRIPTION	QTY	UM
1	SKU0354348	PTN112684-0100	PEDOTHNTDNN02 TOP LEVEL MECHANICAL	1	EA
2	SKU0354811	PTN112684-1800	Electrical Rack Assembly and Control Schematics	1	EA



NOTES:
 1. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS], REFER TO TABLE 1 FOR STANDARD TOLERANCING INFORMATION.
 2. CLEANING PROCEDURE: MSW-DCP-100, LEVEL II

The attached drawings are related to your current order and are provided for your review. No work will begin until we have received your approval. Please contact your sales representative as soon as possible. Please note that changes to the drawing package that are determined to be out of scope may result in changeable expenses, a delay in the project schedule, and ultimately a delayed delivery. Your approval authorizes KJLC to manufacture the components as described in the drawing package.

REV	ECO	REVISION CATEGORY	APPROVED	DATE
A-0	ECO-100685	RELEASED FOR CUSTOMER APPROVAL	SAB	03/02/2021
REV	ECO	REVISION CATEGORY	APPROVED	DATE

SYMBOL	LEGEND	UNLESS OTHERWISE SPECIFIED REFER TO DOCUMENT ENW-1201, KJLC 2D MANUFACTURING TOLERANCES AND MANUFACTURING PRACTICES					
		MACHINED TOLERANCES (UNLESS OTHERWISE NOTED)			FABRICATION/WELDMENT TOLERANCES (UNLESS OTHERWISE NOTED)		
TABLE 1	ITEM BALLBOON	RANGE	IT11, X.X	IT12, X.XX	IT13, X.XXX	RANGE	IT11, X.X
	FOCAL POINT	0 - 10	+0.03	+0.01	+0.005	0 - 12	+0.03
	FOCAL POINT DESIGNATOR	+ 20 - 25	+0.06	+0.02	+0.010	+ 24 - 24	+0.06
	ANGULAR	+ 20 - 25	+0.12	+0.03	+0.015	+ 24 - 24	+0.06
	ANGULAR	+ 25 - 30	+0.25	+0.06	+0.020	+ 24 - 24	+0.06
	ANGULAR	+ 30 - 35	+0.50	+0.12	+0.030	+ 24 - 24	+0.06
TABLE 2	INSPECTION BALLBOON	DIMENSIONS ARE IN MILLIMETERS					
	WATER TRACE IDENTIFICATION	RANGE	IT11, X.X	IT12, X.XX	IT13, X.XXX	RANGE	IT11, X.X
	CENTER OF GRAVITY IDENTIFICATION	0 - 250	+0.5	+0.2	+0.12	0 - 300	+0.5
		250 - 500	+1.0	+0.5	+0.25	300 - 600	+1.0
		500 - 1000	+1.5	+0.75	+0.40	600 - 1500	+1.5
		1000 - 1500	+2.0	+1.0	+0.75	1500 - 3000	+2.0
		1500 - 2000	+2.5	+1.5	+1.0	3000 - 6000	+2.5
		2000 - 3000	+3.0	+2.0	+1.5	6000 - 15000	+3.0
		3000 - 4000	+3.5	+2.5	+2.0	15000 - 30000	+3.5
		4000 - 5000	+4.0	+3.0	+2.5	30000 - 60000	+4.0
		5000 - 6000	+4.5	+3.5	+3.0	60000 - 150000	+4.5
		6000 - 7000	+5.0	+4.0	+3.5	150000 - 300000	+5.0
		7000 - 8000	+5.5	+4.5	+4.0	300000 - 600000	+5.5
		8000 - 9000	+6.0	+5.0	+4.5	600000 - 1500000	+6.0
		9000 - 10000	+6.5	+5.5	+5.0	1500000 - 3000000	+6.5
		10000 - 15000	+7.0	+6.0	+5.5	3000000 - 6000000	+7.0
		15000 - 20000	+7.5	+6.5	+6.0	6000000 - 15000000	+7.5
		20000 - 30000	+8.0	+7.0	+6.5	15000000 - 30000000	+8.0
		30000 - 40000	+8.5	+7.5	+7.0	30000000 - 60000000	+8.5
		40000 - 50000	+9.0	+8.0	+7.5	60000000 - 150000000	+9.0
		50000 - 60000	+9.5	+8.5	+8.0	150000000 - 300000000	+9.5
		60000 - 70000	+10.0	+9.0	+8.5	300000000 - 600000000	+10.0
		70000 - 80000	+10.5	+9.5	+9.0	600000000 - 1500000000	+10.5
		80000 - 90000	+11.0	+10.0	+9.5	1500000000 - 3000000000	+11.0
		90000 - 100000	+11.5	+10.5	+10.0	3000000000 - 6000000000	+11.5
		100000 - 150000	+12.0	+11.0	+10.5	6000000000 - 15000000000	+12.0
		150000 - 200000	+12.5	+11.5	+11.0	15000000000 - 30000000000	+12.5
		200000 - 300000	+13.0	+12.0	+11.5	30000000000 - 60000000000	+13.0
		300000 - 400000	+13.5	+12.5	+12.0	60000000000 - 150000000000	+13.5
		400000 - 500000	+14.0	+13.0	+12.5	150000000000 - 300000000000	+14.0
		500000 - 600000	+14.5	+13.5	+13.0	300000000000 - 600000000000	+14.5
		600000 - 700000	+15.0	+14.0	+13.5	600000000000 - 1500000000000	+15.0
		700000 - 800000	+15.5	+14.5	+14.0	1500000000000 - 3000000000000	+15.5
		800000 - 900000	+16.0	+15.0	+14.5	3000000000000 - 6000000000000	+16.0
		900000 - 1000000	+16.5	+15.5	+15.0	6000000000000 - 15000000000000	+16.5
		1000000 - 1500000	+17.0	+16.0	+15.5	15000000000000 - 30000000000000	+17.0
		1500000 - 2000000	+17.5	+16.5	+16.0	30000000000000 - 60000000000000	+17.5
		2000000 - 3000000	+18.0	+17.0	+16.5	60000000000000 - 150000000000000	+18.0
		3000000 - 4000000	+18.5	+17.5	+17.0	150000000000000 - 300000000000000	+18.5
		4000000 - 5000000	+19.0	+18.0	+17.5	300000000000000 - 600000000000000	+19.0
		5000000 - 6000000	+19.5	+18.5	+18.0	600000000000000 - 1500000000000000	+19.5
		6000000 - 7000000	+20.0	+19.0	+18.5	1500000000000000 - 3000000000000000	+20.0
		7000000 - 8000000	+20.5	+19.5	+19.0	3000000000000000 - 6000000000000000	+20.5
		8000000 - 9000000	+21.0	+20.0	+19.5	6000000000000000 - 15000000000000000	+21.0
		9000000 - 10000000	+21.5	+20.5	+20.0	15000000000000000 - 30000000000000000	+21.5
		10000000 - 15000000	+22.0	+21.0	+20.5	30000000000000000 - 60000000000000000	+22.0
		15000000 - 20000000	+22.5	+21.5	+21.0	60000000000000000 - 150000000000000000	+22.5
		20000000 - 30000000	+23.0	+22.0	+21.5	150000000000000000 - 300000000000000000	+23.0
		30000000 - 40000000	+23.5	+22.5	+22.0	300000000000000000 - 600000000000000000	+23.5
		40000000 - 50000000	+24.0	+23.0	+22.5	600000000000000000 - 1500000000000000000	+24.0
		50000000 - 60000000	+24.5	+23.5	+23.0	1500000000000000000 - 3000000000000000000	+24.5
		60000000 - 70000000	+25.0	+24.0	+23.5	3000000000000000000 - 6000000000000000000	+25.0
		70000000 - 80000000	+25.5	+24.5	+24.0	6000000000000000000 - 15000000000000000000	+25.5
		80000000 - 90000000	+26.0	+25.0	+24.5	15000000000000000000 - 30000000000000000000	+26.0
		90000000 - 100000000	+26.5	+25.5	+25.0	30000000000000000000 - 60000000000000000000	+26.5
		100000000 - 150000000	+27.0	+26.0	+25.5	60000000000000000000 - 150000000000000000000	+27.0
		150000000 - 200000000	+27.5	+26.5	+26.0	150000000000000000000 - 300000000000000000000	+27.5
		200000000 - 300000000	+28.0	+27.0	+26.5	300000000000000000000 - 600000000000000000000	+28.0
		300000000 - 400000000	+28.5	+27.5	+27.0	600000000000000000000 - 1500000000000000000000	+28.5
		400000000 - 500000000	+29.0	+28.0	+27.5	1500000000000000000000 - 3000000000000000000000	+29.0
		500000000 - 600000000	+29.5	+28.5	+28.0	3000000000000000000000 - 6000000000000000000000	+29.5
		600000000 - 700000000	+30.0	+29.0	+28.5	6000000000000000000000 - 15000000000000000000000	+30.0
		700000000 - 800000000	+30.5	+29.5	+29.0	15000000000000000000000 - 30000000000000000000000	+30.5
		800000000 - 900000000	+31.0	+30.0	+29.5	30000000000000000000000 - 60000000000000000000000	+31.0
		900000000 - 1000000000	+31.5	+30.5	+30.0	60000000000000000000000 - 150000000000000000000000	+31.5
		1000000000 - 1500000000	+32.0	+31.0	+30.5	150000000000000000000000 - 300000000000000000000000	+32.0
		1500000000 - 2000000000	+32.5	+31.5	+31.0	300000000000000000000000 - 600000000000000000000000	+32.5
		2000000000 - 3000000000	+33.0	+32.0	+31.5	600000000000000000000000 - 1500000000000000000000000	+33.0
		3000000000 - 4000000000	+33.5	+32.5	+32.0	1500000000000000000000000 - 3000000000000000000000000	+33.5
		4000000000 - 5000000000	+34.0	+33.0	+32.5	3000000000000000000000000 - 6000000000000000000000000	+34.0
		5000000000 - 6000000000	+34.5	+33.5	+33.0	6000000000000000000000000 - 15000000000000000000000000	+34.5
		6000000000 - 7000000000	+35.0	+34.0	+33.5	15000000000000000000000000 - 30000000000000000000000000	+35.0
		7000000000 - 8000000000	+35.5	+34.5	+34.0	30000000000000000000000000 - 60000000000000000000000000	+35.5
		8000000000 - 9000000000	+36.0	+35.0	+34.5	60000000000000000000000000 - 150000000000000000000000000	+36.0
		9000000000 - 10000000000	+36.5	+35.5	+35.0	150000000000000000000000000 - 300000000000000000000000000	+36.5
		10000000000 - 15000000000	+37.0	+36.0	+35.5	300000000000000000000000000 - 600000000000000000000000000	+37.0
		15000000000 - 20000000000	+37.5	+36.5	+36.0	600000000000000000000000000 - 1500000000000000000000000000	+37.5
		20000000000 - 30000000000	+38.0	+37.0	+36.5	1500000000000000000000000000 - 3000000000000000000000000000	+38.0
		30000000000 - 40000000000	+38.5	+37.5	+37.0	3000000000000000000000000000 - 6000000000000000000000000000	+38.5
		40000000000 - 50000000000	+39.0	+38.0	+37.5	6000000000000000000000000000 - 15000000000000000000000000000	+39.0
		50000000000 - 60000000000	+39.5	+38.5	+38.0	15000000000000000000000000000 - 30000000000000000000000000000	+39.5
		60000000000 - 70000000000	+40.0	+39.0	+38.5	30000000000000000000000000000 - 60000000000000000000000000000	+40.0
		70000000000 - 80000000000	+40.5	+39.5	+39.0	60000000000000000000000000000 - 150000000000000000000000000000	+40.5
		80000000000 - 90000000000	+41.0	+40.0	+39.5	1500	