



PLAN VIEW

Item	Part No.	Description	QTY
1	9688919	Turbo-V 301 Navigator Pump, 8 in. CF	3
2	9689537	Turbo-V 301 Controller 120/220 V - 50/60 Hz	3
3	9689302	Turbo-V 301 Inlet Screen DN 100	3
4	9689366	Pump, Turbo-V70, 4.5'CF	4
5	9689305	Controller, Turbo-V70, Rack, 120V	4
6	9689300	Inlet Screen, DN63	4
7	PTS3001UNIV	PTS 300 Varian InScroll Dry Vacuum Pump	2
8	12144-P44-AANI	VAT Series 12 Gate Valve, DN160, Pneumatic, ISO Flange, Pos. Ind, NM25 Ports	1
9	10840-LE24	VAT Series 10 UHV Gate Valve, DN100, Pneumatic, 6" CF, Pos. Ind	2
10	LE281332	Right-Angle Block Valve - Air-operated - 24VDC - KF25	16
11	306117	Adixen Alcatel ACM1 10001 Multi Channel Controller, 120V, 6 Connections	2
12	304033	Adixen Alcatel AHC 1010 Hx Cathode Pirani Gauge, SE-10 To 1000 mBar, 100 mm Extent	8
13	304145	Adixen Alcatel Sensor Gauge For ACM1 1000 Controller, 5m Length	8
14	2715198	Adixen Alcatel Sensor Gauge - KF25 Welded Flange	5
15	7390	Connection Gauge Connector Kit	5
16	KC02000276	Cross, 4 Way, NM50, 2.75" Clearance, Stainless Steel	3
17	KT02000276	Tea, NM50, 2.75" Clearance, Stainless Steel	1
18	KE02000277	Elbow, NM60, 2.75" Clearance, Stainless Steel	3
19	KC505AV	Seal, Centering Ring, NM50, Stainless Steel Viton O-Ring	22
20	KC605AV	Clamp, Quick, Wing Nut, NM60, Black	22
21	KC01000197	Cross, 4 Way, NM25, 1.97" Clearance	2
22	KT01000197	Tea, NM25, 1.97" Clearance	6
23	KL01000340	Flexible Coupling, Non-Bridged, NM25, 39.4" Long	4
24	KF25000058	Flange, KF, Blank, NM25, Stainless Steel	4
25	KC25SV	Seal, Centering Ring, NM25, Stainless Steel Viton O-Ring	50
26	KC25AV	Clamp, Quick, Wing Nut, NM25, Black	50
27	KC16AV	Seal, Centering Ring, NM16, Aluminum Buna-N O-Ring	6
28	KC16AV	Clamp, Quick, Wing Nut, NM16, Black	6
29	KPC1625A	Conical Reducer, NM25 To NM16, Stainless Steel	8
30	FCG9000Q	6" OFF Copper Gaskets, 10/pkg	1
31	FCG4500Q	4.5" OFF Copper Gaskets, 10/pkg	1
32	FGQ275Q	2.75" OFF Copper Gaskets, 10/pkg	1
33	KRC2550S	Conical Reducer, NM50 To NM25, Stainless Steel	7
34	FA0490UW60L	Adapter, 4.5" OFF To NM50, Length = 2", Stainless Steel	2
35	FA0450Z27S	Adapter, 4.5" OFF To 2.75" CF, Length = 2.5", Stainless Steel	2
36	FNH0150S	Half Nipple, 2.75" CF, 1.5" Tube, Length = 2.46", Stainless Steel	2
37	KS500150BB	Weld Flange, NM50, Bored For 1.5" Tube, Stainless Steel	10
38	CF25-100-SH	Adapter, CF25 To 1" ID Tube, Stainless Steel	2

- NOTES:**
- THE ISOLATION VALVES (IV) FOR THE MAIN BEAMLINE ARE TO BE SPECIFIED BY THE TRIUMF DESIGN OFFICE.
 - SCROLL PUMP EXHAUST IS TO BE CONNECTED TO A DRY EXHAUST SYSTEM.
 - V70LP TURBO PUMP USED TO BACK BEAMLINE TURBO PUMPS.
 - BACKING VALVE FOR THE V70LP TURBO PUMP IS CLOSED TO ISOLATE THE TURBO PUMP DURING VENTING / ROUGHING PROCEDURES. THE BACKING VALVES OF THE BEAMLINE TURBO PUMPS ARE FOR ROUGHING / BACKING.
 - ROUGHING VALVE POSITIONED ON BACKING LINE FOR EVACUATING THE FORELINE AND/OR THE MAIN BEAMLINE.
 - VENT VALVE POSITIONED ON BACKING LINE FOR VENTING THE FORELINE AND/OR THE MAIN BEAMLINE.
 - AHC 1010 PIRANI GAUGES HAVE A RANGE FROM 4E-10 TO 750 TORR. ROUGH VACUUM GAUGE NOT NEEDED WITH AHC 1010 INSTALLED.

Mnemonics:

BV = Backing Valve
CCP = Cryopump Compressor
CG = Convection Gauge
CP = Cryopump
EV = Pump Exhaust Valve
FC = Flow Gauge
FG = Ion Gauge
IP = Ion Pump
IV = Isolation Valve
GV = Gate Valve (For Pump)
HOV = Hand-Operated Valve
NV = Needle Valve
PR = Pressure Regulator
RVC = Rough Valve Cryopump
RP = Roughing Pump
SV = Solenoid Valve
TP = Turbomolecular Pump
TSP = Ti Sublimation Pump
VV = Vent Valve
XO = Cross Over Valve

TRUMP
4001 WESBROOK MILLS
CANADIAN BRITISH COLUMBIA
CANADA'S NATIONAL WESON FACILITY

VACUUM SYSTEM SCHEMATIC
TITAN BEAMLINE - EBIT
ISAC EXPERIMENT HALL

REV	DATE	LOC	REVISION DESCRIPTION	BR	APP'D
1	06/11/15	TRM	Updated naming. Updated gauging - See Note 7	BR	DY
2	07/15/15	TRM	Changed EBIT:BP1/BP2 To Scroll Pumps.	BR	

SCALE: N.T.S. DATE: 12/04/05 DWG NO: ISK5041D REV: 2