

MECHANICAL/PLUMBING ITEMS

CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED

ITEM DESCRIPTION (\* INDICATES EXISTING)

(2) 1/2" [13 mm] I.D. HIGH PRESSURE HOSES AND (4) 1" [25 mm] COMPRESSION CLAMPS. 150 MICRON FILTER, SHUT OFF VALVES AND BY-PASS VALVE AS REQUIRED. SEE DETAIL MECH-06. WATER QUALITY MUST BE 6. 5-82 pH, A HARDNESS OF LESS THAN 200 ppm, SUSPENDED MATTER OF 10 mg PER LITER AND LESS THAN 150 MICRON PARTICLE SIZE. ANTI-FREEZE MINIUMUM OF 25 PER CENT, MAXIMUM OF 50 PER CENT BY VOLUME. FOR WATER SPECIFICATIONS SEE DETAIL MECH-07 AND EQUIPMENT DETAIL M16-15E

ON THE EQUIPMENT DETAIL SHEETS. EXHAUST FAN AND AIR INLET TO PROVIDE A MINIMUM OF 12 AIR EXCHANGES PER HOUR OR 1200 CFM, WHICH EVER IS LARGER. SEE DETAIL ELEC-55 ON THE ELECTRICAL DETAIL SHEET(S). MAGNET ROOM EXHAUST FAN INTAKE VENT MUST BE Located at the highest ceiling plane near the Magnet cryogen vent.

SHEET C1 FOR CRYDGEN VENT REQUIREMENTS. SEE SHEET S-2 FOR CRYDGEN VENT LOCATION. 8" [203 mm] CRYOGEN VENT - TOLERANCE FOR VENT LOCATION +/-0,25" [6 mm], SEE DETAILS MECH-04 AND MECH-01. THE CUSTOMER'S DESIGNER IS RESPONSIBLE FOR SELECTING VENT MATERIALS AND HARDWARE CAPABLE OF SAFELY HANDLING THE PRESSURES AND COLD TEMPERATURE GENERATED WITHIN THE VENT AT EACH MRI SITE. THE CUSTOMER'S CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING THE CRYOGEN VENT FROM THE MAGNET VENT ADAPTER TO THE BUILDING'S EXTERIOR. FOR NON-STANDARD VENT CONFIGURATIONS
(I.E. OFFSET CEILING EXITS, WALL EXITS, AND GEODESIC DOMES) THE CUSTOMER'S CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF THE CRYOGENIC VENT SYSTEM AND VENT SUPPORTS WITHIN THE MAGNET ROOM.

MINIMUM 2 FT.  $\times$  2 FT. [O.61m  $\times$  0.61m] PRESSURE EQUALIZING WAVEGUIDE VENT IN THE MAGNET ROOM CEILING.

## MECHANICAL/PLUMBING NOTES

- ALL PIPING, FITTINGS, SUPPORTS, HOSES, CLAMPS, VENTLATION SYSTEMS, ETC. ARE TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER OR HIS CONTRACTORS.
- FOR COMPLETE DESIGN AND INSTALLATION REQUIREMENTS, SPECIFICATIONS AND GUIDELINES REFER TO THE PRE-INSTALLATION MANUAL REFERENCED ON SHEET C1 FOR: MR SYSTEMS — SYSTEM COOLING, CRYOGEN VENTING, WAVEGUIDES AND EXHAUST VENTING.

PROJECT REVISION 065904 00

10/4/06 DRAWN BY: CHECKED BY: QUOTE NO: KX1CB7 QT. DATE: 9/25/06

REVISION HISTORY:

SHEET

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MAIN