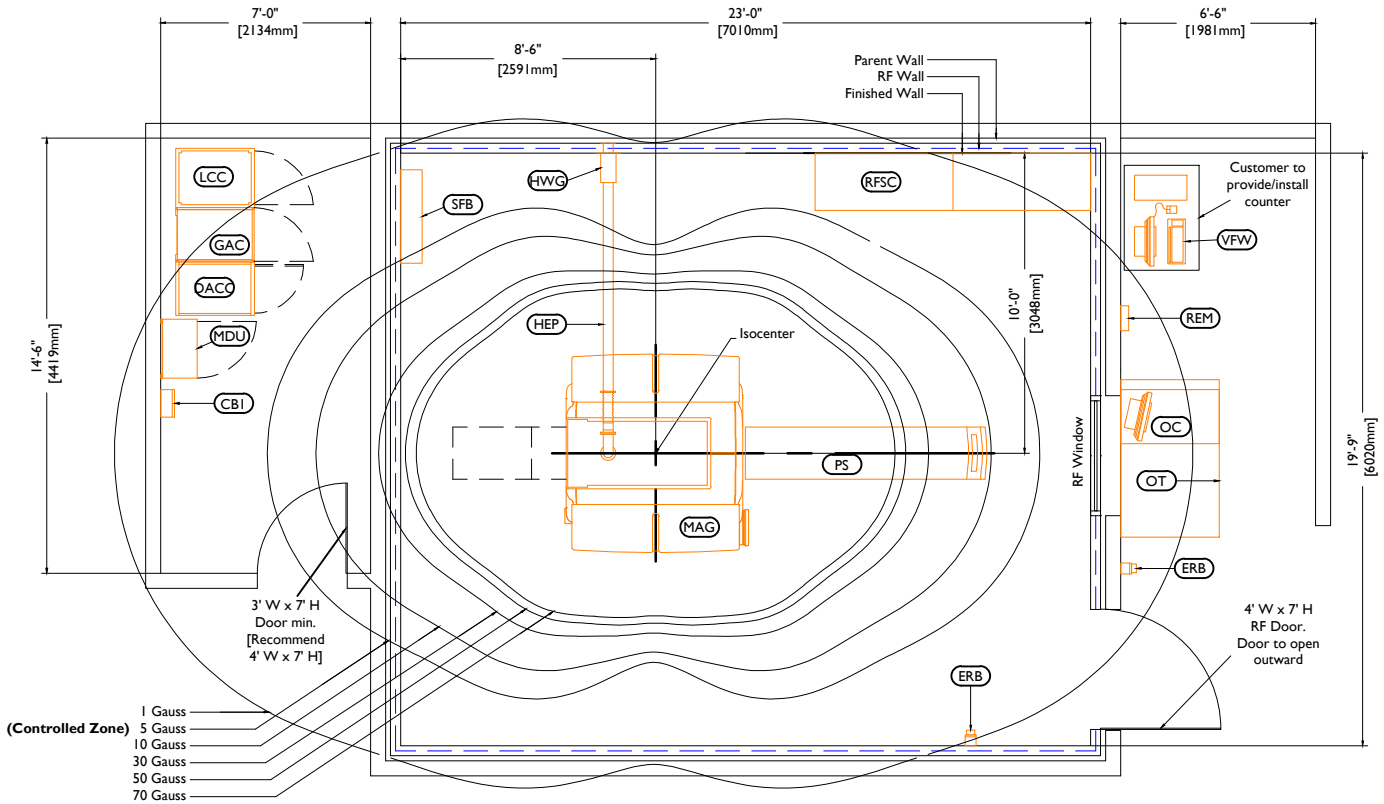


# Intera 1.5T Pulsar HP

## Preferred Room Layout

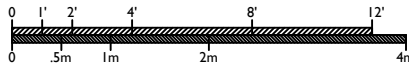
The layout shown below is based upon a typical equipment configuration and should be considered as a general design guideline. Site conditions, application requirements, customer preferences, and/or equipment configuration may significantly impact suite design and equipment layout. It is recommended to request site-specific drawings from a Philips representative early in the design process.



## Equipment Layout

### Ceiling Height Guide

|                                      |                         |                          |
|--------------------------------------|-------------------------|--------------------------|
| Equipment Room:                      | 10' - 6"                | (3200 mm) Recommended    |
|                                      | 9' - 2"                 | (2795 mm) <b>Minimum</b> |
| Exam Room Suspended Ceiling:         | 8' - 3 $\frac{3}{16}$ " | (2520mm) <b>Required</b> |
| Exam Room RF Ceiling:                |                         |                          |
| Helium Waveguide Through RF Wall:    | 9' - 9"                 | (2970 mm) <b>Minimum</b> |
| Helium Waveguide Through RF Ceiling: | 10' - 0 $\frac{1}{2}$ " | (3010 mm) <b>Minimum</b> |
| Control Room:                        | 9' - 10"                | (3000 mm) Recommended    |
|                                      | 7' - 3"                 | (2200mm) <b>Minimum</b>  |



Equipment Legend

- A Furnished and installed by Philips
- B Furnished by customer/contractor and installed by customer/contractor
- C Installed by customer/contractor
- D Furnished by Philips and installed by contractor
- E Existing
- F Future
- G Optional item furnished by Philips
- H Furnished by RF Enclosure Supplier and installed by RF Enclosure Supplier
- J Furnished by Philips and Installed by Rigging Company

Equipment Designation

|   |        | Description                                  | Max. Gauss | Weight lbs [kg] | Heat Load Btu/hr [W] |
|---|--------|--|------------|-----------------|----------------------|
| A | (OC)   | Operator's Console                           | 30         | 145 [65]        | 1700 [498]           |
| G | (OT)   | Operator's Table                             | ---        | 220 [100]       | 0                    |
| A | (VFW)  | Viewforum Workstation                        | 10         | 125 [57]        | 1000 [293]           |
| D | (ERB)  | Emergency Run-Down Button (Qty. = 2)         | ---        | 3 [1]           | 0                    |
| J | (MAG)  | Magnet Assembly                              | ---        | 10210 [4630]    | 6800 [1993]          |
| A | (PS)   | Patient Support (MT)                         | ---        | 365 [165]       | 0                    |
| A | (HEP)  | Helium Gas Exhaust Pipe (exam room only)     | ---        | 4/ft [6/m]      | 0                    |
| C | (HWG)  | Helium Gas Exhaust Wave Guide                | ---        | 10 [5]          | 0                    |
| A | (GAC)  | Gradient Amplifier 781 Single Cabinet        | 150        | 1030 [467]      | 14000 [4103]         |
| A | (DACO) | Data Acquisition and Control Cabinet         | 50         | 585 [265]       | 23900 [7004]         |
| D | (LCC)  | Liquid Cooling Cabinet                       | 150        | 660 [300]       | 3400 [996]           |
| D | (MDU)  | Mains Distribution Unit                      | 150        | 605 [275]       | 1700 [498]           |
| A | (SFB)  | System Filter Box with Covers                | 70         | 175 [79]        | 3400 [996]           |
| G | (RFSC) | RF Coil Storage Cabinet                      | ---        | 1320 [600]      | 0                    |
| B | (CBI)  | Circuit Breaker (for system)                 | 50         | t.b.d.          | t.b.d.               |
| B | (CB2)  | Circuit Breaker (for Chiller) [not shown]    | 50         | t.b.d.          | t.b.d.               |
| D | (CH)   | Dimplex MEDKOOL 15000 AC Chiller [not shown] | 10         | 2600 [1180]     | 188000 [55097]       |
| D | (REM)  | Chiller Remote Controller                    | 10         | 1 [0.5]         | 0                    |

## Environmental Requirements for General Equipment Locations

Heating, ventilation, air conditioning requirements concern all rooms (equipment room, magnet room, and control room) and must be maintained 24 hours a day, 7 days a week.

### Examination Room:

Temperature: 68° to 75° F (20° to 24° C)

Maximum Temperature Rate of Change: 9° F (5° C) per 10 minutes

Humidity: 40% to 60%, non-condensing

Air Conditioning Capacity: **6800 BTU / hr (2 kW)**

- Energy dissipated in the examination room will be removed from the room by an additional air exhaust system.
- Gradient coil heat dissipation (3400 to 51200 BTU / hr [1 to 15 kW]) will be removed via liquid cooling of the gradient coil.

### Equipment Room:

Temperature: 59° to 75° F (15° to 24° C)

Maximum Temperature Rate of Change: 9° F (5° C) per 10 minutes

Humidity: 30% to 70%, non-condensing

Air Conditioning Capacity:

- At Standby: 6800 BTU / hr (2 kW)
- Peak Dissipation Scanning: **23900 BTU / hr (7 kW)**

### Control Room:

Temperature: 64° to 75° F (18° to 24° C)

Maximum Temperature Rate of Change: 9° F (5° C) per 10 minutes

Humidity: 30% to 70%, non-condensing

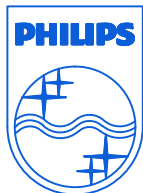
Air Conditioning Capacity: **1700 BTU / hr (0.5 kW)**

## Power Requirements

|                           |                                     |
|---------------------------|-------------------------------------|
| Supply Configuration:     | 3 phase, 3 wire power and ground.   |
| Nominal Line Voltage:     | 400 VAC, 50/60 Hz or 480 VAC, 60 Hz |
| Branch Power Requirement: | 60 kVA                              |
| Circuit Breaker:          | 3 pole, 80 A (@480 V)               |

## Remote Service Diagnostics

Medical Imaging equipment to be installed by Philips is equipped with a service diagnostic feature which allows for remote and on-site service diagnostics. To establish this feature, a RJ45 type Ethernet 10/100/1000 Mbit network connector must be installed. Access to customer's network via their remote access server is needed for Remote Service Network (RSN) connectivity. All costs with this feature are the responsibility of the customer.



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