# Interactive Room Layout

Exclusively by Philips Healthcare

## Achieva Quasar 3.0T

Exam Room View



Click and drag mouse over image to pan around the room



Control Room View



Standard Room

Magnetic Resonance Video

Play Stop



Achieva Quasar 3.0T

Exclusively by Philips Healthcare

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Go to General System Requirements

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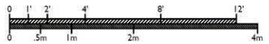
# Achieva Quasar 3.0T

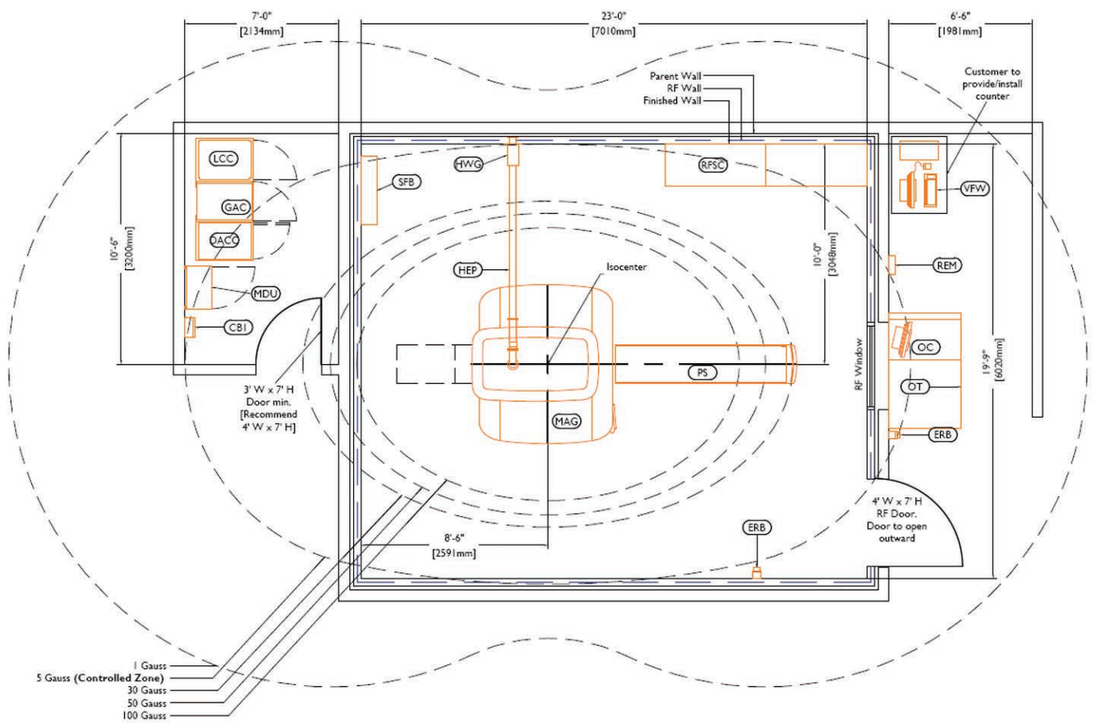
***Helium Exhaust Pipe Verification***
Customer's architect/contractor to provide plan and elevation details of helium exhaust pipe design for verification that specifications are being met, prior to installation.
(Refer to sheet MP2 of Final Drawing Package for details)

## Equipment Layout

**Ceiling Height Guide**

| | | |
|---|---|---|
| Equipment Room: | 10' - 6" | (3200 mm) Recommended |
| | 8' - 6 3/8" | (2600 mm) **Minimum** |
| Exam Room Suspended Ceiling: | 8' - 3 3/16" | (2520mm) **Required** |
| Exam Room RF Ceiling: | 10' - 6" | (3200 mm) Recommended |
| | 9' - 6 1/4" | (2900 mm) **Minimum** |
| Control Room: | 9' - 10" | (3000 mm) Recommended |
| | 7' - 3" | (2200mm) **Minimum** |




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

| | 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 | --- | 12850 [5830] | 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 | DACQ | 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 | 200 [90] | 0 |
| G | RFSC | RF Coil Storage Cabinet | --- | 1320 [600] | 0 |
| B | CB1 | 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 |

## General System Requirements

### *Environmental*

Examination Room:
- Operating Temperature: 68° - 75° F (20° - 24° C)
- Relative Humidity: 40% to 60%, non-condensing
- Air Conditioning Capacity: 6800 btu/hr (2 kW)

Equipment Room:
- Operating Temperature: 59° - 75° F (15° - 24° C)
- Relative Humidity: 30% to 70%, non-condensing
- Air Conditioning Capacity (standby): 6800 btu/hr (2 kW)

Control Room:
- Operating Temperature: 64° - 75° F (18° - 24° C)
- Relative Humidity: 30% to 70%, non-condensing
- Air Conditioning Capacity 1700 btu/hr (0.5 kW)

### *Primary Coolant*

Quality: Potable Tap Water
pH: 6.0 - 8.0
$CaCO_3$: < 250 ppm
Chlorine: < 200 ppm
Suspended Matter: < 10 mg/L, < 100 micron particle size
Cooling Liquid Inlet: 43° - 59° F (6° - 15° C)
Maximum Flow Allowed: 23.8 GPM (90 L/min)
Maximum Primary Cooling Liquid Pressure: 87 PSI (6 Bar)
Temperature Stability: +/- 3.6° F (+/- 2° C)
Ethylene Glycol Concentration: 35% Recommended
Heat dissipation: 23,900 - 136,600 btu/hr (7 - 40 kW)

### *Controlled Zone*

Exclusion zone for persons with cardiac pacemakers or other electrical implants - Magnetic field exceeds 5 Gauss (0.5 mT).

### *Power*

| | |
|---|---|
| Supply Configuration: | 3 phase, 3-wire power, and ground |
| Nominal Line Voltage: | 208, 240, 480 VAC, 60 Hz |
| Branch Power Requirement: | 60 kVA |
| Circuit Breaker: | 3 pole, 80A (480 VAC) |

### *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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