Interactive Room Layout

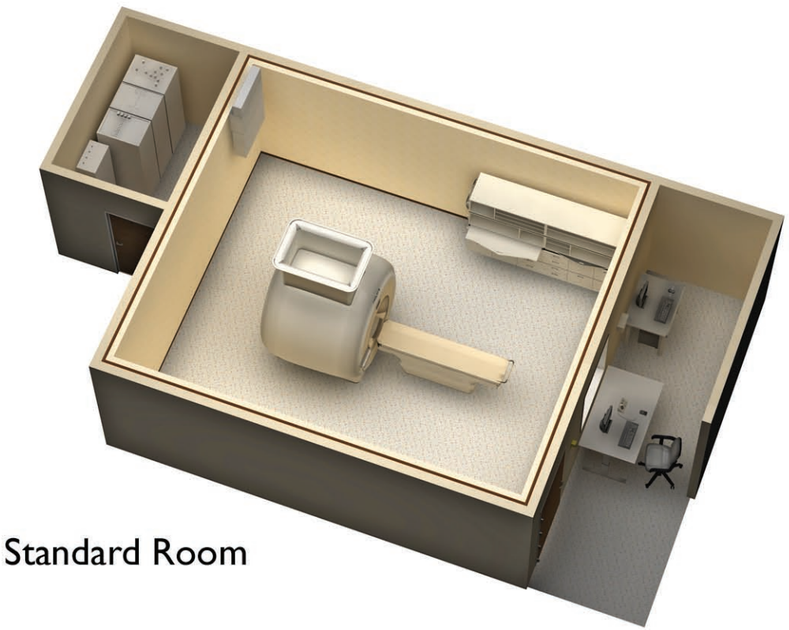
Exclusively by Philips Healthcare

Achieva SE/Pulsar 1.5T

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 SE/Pulsar 1.5T

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Go to General System Requirements

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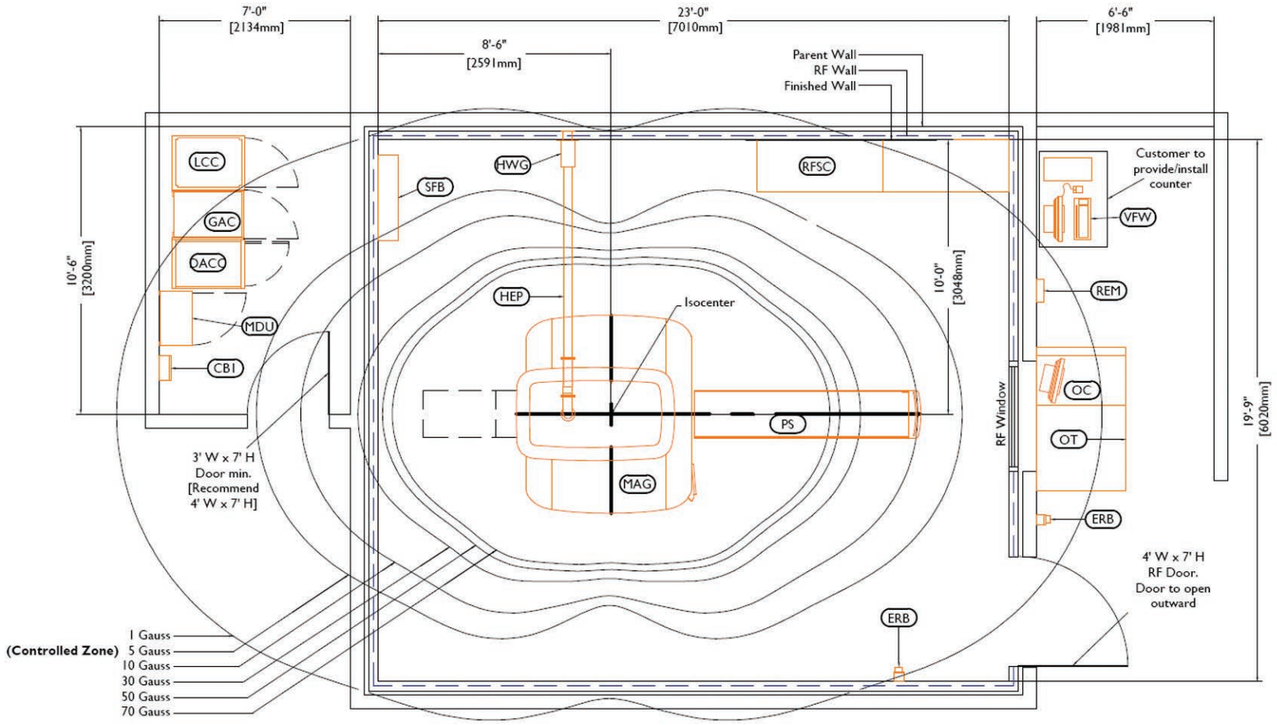
Helium Exhaust Pipe Verification
Customer's architect/contractor to provide plan and elevation details of helium exhaust pipe design for verification that specifications are being met, prior to installation.
(Refer to sheet MP2 of Final Drawing Package for details)

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"	(2515mm) **Required**
Exam Room RF Ceiling:	9' - 10"	(3000 mm) Recommended
	9' - 3"	(2820 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 - Operational 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	---	10210 [4630]	6800 [1993]
A PS	Patient Support (HiT)	---	365 [165]	0
A HEP	Helium Gas Exhaust Pipe (exam room only)	---	4ft [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
CaCO3: < 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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