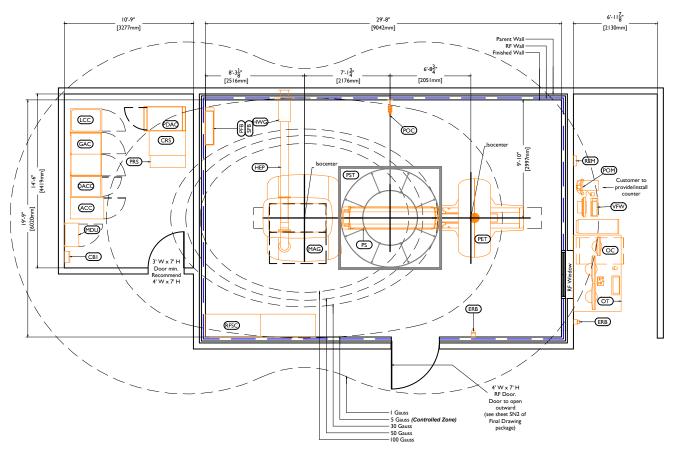
Ingenuity TF PET/MR

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

10' - 6" 9' - 2"	(3200 mm) Recommended (2795 mm) Minimum
8' - 3 ³ / ₁₆ "	(2520mm) Required
10' - 6"	(3200 mm) Minimum
11' - 2 1 "	(3410mm) Minimum
9' - 10"	(3000 mm) Recommended
7' - 3"	(2200mm) Minimum
	9' - 2" 8' - 3 \frac{3}{16}" 10' - 6" 11' - 2 \frac{1}{4}" 9' - 10"



The data given in this document related to the future equipment configuration release Ingenuity TF PET/MR is for preliminary planning purposes only. It reflects the information available at the time this document is issues and may not be complete or final. Some of these requirements may still change as development is finalized. Philips does not take any liability for any additional cost occuring to customers because decisions based on the information provided in this document.



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	Design	ation
1.1.	0	

$ \downarrow$	↓	Description	Max. Gauss	Weight lbs [kg]	Heat Load Btu/hr [W]
Α	(OC)	Operator's Console	30	474 [215]	4197 [1230]
G	OT)	Operator's Table		220	0
Α	(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]
Α	PS	Patient Support (MT)		365 [165]	1025 [300]
Α	PST	Patient Support Turntable Assembly		686 [312]	1025 [300]
Α	HEP	Helium Gas Exhaust Pipe (exam room only)		4/ft [6/m]	0
С	HWG	Helium Gas Exhaust Wave Guide		10 [5]	0
Α	(GAC)	Gradient Amplifier 787 Double Cabinet	150	2015 [914]	27900 [8177]
Α	(AC)	Data Acquisition and Control Cabinet	50	585 [265]	23900 [7004]
Α	ACC	Additional Components Cabinet (TX)	50	660 [300]	6800 [1991]
D	(LCC)	Liquid Cooling Cabinet	150	660 [300]	3400 [996]
D	MDU	Mains Distribution Unit	150	605 [275]	1700 [498]
Α	SFB	System Filter Box with Covers	70	175 [80]	3400 [995]
G	RFSC	RF Coil Storage Cabinet		1320 [600]	0
В	(CBI)	Circuit Breaker (for system)	50	t.b.d.	t.b.d.
В	CB2	Circuit Breaker (for Chiller) [not shown]	50	t.b.d.	t.b.d.
D	СН	Dimplex MEDKOOL I 5000 AC Chiller [not shown]	10	2600 [1180]	188000 [55097]
D	REM	Chiller Remote Controller	10	I [0.5]	0
Α	(SACU)	System Air Cooling Unit	50	55 [25]	340 [100]
D	PV	Patient Ventilation	50	56 [25]	170 [50]
Α	PFB	PET Filter Box	70	80 [35]	3400 [997]
Α	PET	PET Gantry	30	2954 [1340]	6005 [1760]
Α	(CRS)	CIRS Cabinet	50	335 [150]	5300 [1554]
Α	PRS	PET Recon Cabinet	50	110 [50]	990 [290]
Α	PDAC	PET Data Acquisition Cabinet	50	500 [225]	5016 [1470]
D	POC	Patient Observation Camera	150	3 [1]	0
D	POM	Patient Observation Monitor	10	9 [4.2]	340 [100]

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)

Preferred for patient comfort: 21° C

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

Humidity: 40% to 70%, non-condensing

Air Conditioning Capacity: 9200 BTU / hr (2.7 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 [I to I5 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: 31100 BTU / hr (9.1 kW)

- Peak Dissipation Scanning: 65200 BTU / hr (19.1 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: 4100 BTU / hr (1.2 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: 88 kVA

Circuit Breaker: 3 pole, 125 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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