## PHILIPS

## Information about types of alerts of Philips e-Alert

Too high or too low temperature	Alert type Climate - Temperature in the technical room and optionally the temperature in the examination room.	Impact A temperature alert is sent when a too high or too low temperature is detected which may cause damage to your system hardware over time. Action is required to restore the room temperature within specified range. Criticality of alert: Medium - Low Required response time: within 24 hours
Too high or too low humidity	Alert type Climate - Humidity in the technical room and optionally the humidity in the examination room.	Impact A humidity alert is sent when a too high or too low humidity is detected which may cause damage to your system hardware over time and can result in reduced image quality. Action is required to restore the room humidity within specified range. Criticality of alert: Medium - Low Required response time: within 24 hours
Non functioning chiller?	Alert type Chiller status	Impact MRI systems require a functioning chiller to properly function. Chilled water is required to provide cooling to other critical components in the system, such as the cryo compressor or gradients. This alert is sent when the external chiller's status line indicates that it is not functioning. Action is required to check and if required repair the chiller. Criticality of alert: High Required response time: as soon as possible within 4 hours
Cryo compressor not functioning	Alert type Cryo compressor function	ImpactThe cryo Compressor is a component in the MRI system that maintains the internal temperature of the magnet via another component called a Cold head. These two components together are called the Cryo System.Cryo compressor alerts are sent when the magnet cooling system is not operating properly and optimal magnet cooling conditions cannot be kept. This may be due to low cooling water levels, high pressure or due to a disconnect in power supply.Alert thresholds are reached when the temperature of the water supplied to the cryo compressor is outside a Philips threshold value. Or when the temperature of the water returning from the cryo compressor is outside a Philips threshold value.Criticality of alert: High Required response time: as soon as possible within 4 hours

Coldhead alert



## Alert type

Cold head supply return gas temperature.

The temperature difference between the helium supplied to the Coldhead and the helium returning from the Coldhead is outside a Philips threshold.

## Impact

This alert is sent when there is a too low difference between the Coldhead supply and the return gas temperatures. This is an indication that the Coldhead is not functioning properly.

Criticality of alert: High Required response time: within 24 hours

Too low Helium level	Alert type Helium level	Impact Helium alerts are sent when the level of Helium in the magnet is too low and/or the rate at which the Helium level is decreasing is too high. Helium is used to keep the magnet in a pre-defined temperature range. When magnet Helium levels are low, the magnet cannot be kept in optimal conditions and the MRI system may be forced to switch off. If the environment around the MRI system is sub-optimal, meaning the temperature, humidity, water supply or power supply are not maintained within the manufacturers specifications, Helium will boil off unnecessarily. Criticality of alert: High Required response time: as soon as possible within 4 hours
No Magnetic field	Alert type	Impact
	Magnet - Field status	This alert is sent when the magnet is off field. This is caused by a sudden, unwanted discharge of the magnet likely resulting in a quench and the loss of a large quantity of helium. Immediate action is required by your service organization to prevent further warming of the magnet. The magnet must be refilled and recovered as soon as possible to reduce further downtime.
		Criticality of alert: High Required response time: as soon as possible within 4 hours
No power supply	Alert type	Impact
	Environmental - Electrical power	This alert is sent when the mains power was interrupted. A mini-UPS is installed and it detects an interruption in power to the e-Alert controller box. The mini-Uninterrupted Power Supply (UPS) has enough power to support the controller box to send the alert. Immediate action is required to switch on the mains power in (the applicable area of) the Healthcare facility.
		Criticality of alert: High Required response time: as soon as possible within 4 hours
MRI system is OK again	Alert type	Impact
	All OK	An All OK message will be sent after successful resolution of open issues and when all measured critical system parameters are back within within the specified threshold values. The MRI system is performing within normal operating conditions again.
		Criticality of alert: Low Required response time: no response required

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