





RISK ANALYSES

BASED ON EN-ISO 12100:2016

Palace 110-S Semi Automatic



Type Investigation	Project number	Compiled by	Review by	Date of release	Revision	
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Risk analyses	2021-521			13/09/2022		

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Pages	16
Annexes	1

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1. INTRODUCTION

1.1 PURPOSE OF THE REPORT

This report was commissioned by Parthos B.V. ('**client**' and/or '**manufacturer**') and compiled by Certification Company. The purpose of this report is to assess the safety risks of the Palace 110-S Semi Automatic.

1.2 PRODUCT IDENTIFICATION

For the purpose of investigation, the following products were taken into the account:

IDENTIFICATION	DESCRIPTION
GENERIC DENOMINATION	Operable wall
FUNCTION / INTENDED USE	Separating of spaces
MODEL	Palace 110-S Semi Automatic
OVERALL DRAWING / PHOTOGRAPHIC EXAMPLE	
ELECTROMAGNETIC ENVIRONMENT	Commercial & (light) industry



2. RISK ANALYSES




An on-site inspection was carried out on the march 29th 2022. The inspection took place at your location in Hoofddorp (NL) in the presence of Mr. Bas van den Wildenberg as representative of Parthos B.V. The risk assessment is partly based on the European harmonised standard EN-ISO 12100:2010 – Safety of machinery - General principles for design -

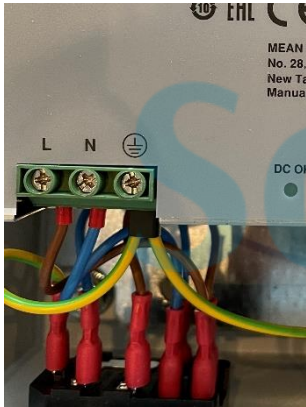

S	SEVERITY	P	PROBABILITY	E	EXPOSURE
100	Catastrophe (<i>many fatalities</i>)	10	Might well be expected	10	Continuous
40	Disaster (<i>few fatalities</i>)	6	Quite possibly	5	Frequent (<i>daily</i>)
15	Very serious (<i>serious injury</i>)	3	Unusual but possible	3	Occasional (<i>once per week</i>)
7	Important (<i>disability</i>)	1	Remotely possible	2	Unusual (<i>once per month</i>)
3	Noticeable (<i>minor first aid accident</i>)	0.5	Conceivable but very unlikely	1	Rare (<i>a few times per year</i>)
1	Low risk (<i>very minor accident</i>)	0.1	Practically impossible	0.5	Very rare (<i>yearly or less</i>)



R	RISK	MEASUREMENT
>320	Very high risk	Consider discontinuing operation
160-320	High risk	Immediate correction required
70-160	Substantial risk	Correction needed
20-70	Possible risk	Attention indicated
0 <20	Risk	Perhaps acceptable


ABBREVIATIONS USED IN THE RISK ANALYSES (LIFE PHASES)	
ABBREVIATION	MEANING
T	Transport
S	Storage
MI	Mounting and installation
C	Commissioning
U	Use
DM	Dismantle
M	Maintenance
MA	Malfunction
DC	Decommissioning
D	Disposal
ALL	All life phases


#	LOCATION/DESCRIPTION	HAZARD IDENTIFICATION	LIFE PHASE	S	P	E	RISK BEFORE REDUCTION	RISK REDUCTION MEASURE PROPOSAL	S	P	E	RISK AFTER REDUCTION	MEASURE EXECUTED
I	MECHANICAL HAZARDS												
6	<p>The power supply is placed above the suspended ceiling. When removing a ceiling tile, there is a danger that the power supply will fall.</p> 	Falling parts	ALL-TSD	3	6	1	18	<p>Mount the power supply box to a fixed construction.</p> 	3	0,1	1	0,3	See installation manual


#	LOCATION/DESCRIPTION	HAZARD IDENTIFICATION	LIFE PHASE	S	P	E	RISK BEFORE REDUCTION	RISK REDUCTION MEASURE PROPOSAL	S	P	E	RISK AFTER REDUCTION	MEASURE EXECUTED
II ELECTRICAL HAZARDS													
4	Dangerous voltage is present in the power supply box. Warning missing 	Live parts	M/DM/M/MA/D C	15	1	1	15	Place icon on the lid: 	15	1	0,5	7,5	



#	LOCATION/DESCRIPTION	HAZARD IDENTIFICATION	LIFE PHASE	S	P	E	RISK BEFORE REDUCTION	RISK REDUCTION MEASURE PROPOSAL	S	P	E	RISK AFTER REDUCTION	MEASURE EXECUTED
7	<p>The connection terminal of the power supply is used as a branch for the protective conductor. Risk of the protective conductor coming loose.</p> 	Parts which have become live under fault conditions	ALLE-TSD	15	0,5	1	7,5	We recommend installing an earth bar to which the incoming protective conductor is connected and with a separate outgoing terminal a connection is made to the metal box and to the PE connection of the Meanwell power supply.	15	0,1	1	1,5	

9a	<p>A Meanwell power supply is included in the power supply box. This is not mounted according to the mounting instructions. Risk of overheating with various consequences.</p> 	Thermal radiation	ALL-TSD					Follow the installation manual of the Meanwell power supply					<p>Another type of power supply is applied with sufficient free space</p> 
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#	LOCATION/DESCRIPTION	HAZARD IDENTIFICATION	LIFE PHASE	S	P	E	RISK BEFORE REDUCTION	RISK REDUCTION MEASURE PROPOSAL	S	P	E	RISK AFTER REDUCTION	MEASURE EXECUTED
9b	<p>In the power supply box, a thermal protection is incorporated in the 24V DC line, which is probably not specified for a voltage of 24V DC.</p> 	Thermal radiation	ALL-TSD					Provide a Eaton-Heinemann thermal protection data sheet to further determine this risk.					<p>Risk is not applicable. Thermal protection is suitable for 230V AC</p>

#	LOCATION/DESCRIPTION	HAZARD IDENTIFICATION	LIFE PHASE	S	P	E	RISK BEFORE REDUCTION	RISK REDUCTION MEASURE PROPOSAL	S	P	E	RISK AFTER REDUCTION	MEASURE EXECUTED
VII	MATERIAL / SUBSTANCE HAZARDS												
9	<p>The power supply box is equipped with a thermal protection, it is unclear whether this part meet the EU Directives. Various consequences</p> 	Fumes	ALLE-TSD					Provide in a CE declaration of conformity					<p>A declaration of conformity has been issued by the manufacturer of the power supply unit. Document MvZ/29082022/1</p>

#	LOCATION/DESCRIPTION	HAZARD IDENTIFICATION	LIFE PHASE	S	P	E	RISK BEFORE REDUCTION	RISK REDUCTION MEASURE PROPOSAL	S	P	E	RISK AFTER REDUCTION	MEASURE EXECUTED
VII I	ERGONOMIC HAZARDS												
8	<p>During installation, you should constantly look up to see if the partition wall hangs properly in the rails.</p> 	Posture	G	3	3	3	27	Provide an instruction in the user manual to reduce the ergonomic load	3	3	1	9	After consultation with the client, this risk is negligible

#	LOCATION/DESCRIPTION	HAZARD IDENTIFICATION	LIFE PHASE	S	P	E	RISK BEFORE REDUCTION	RISK REDUCTION MEASURE PROPOSAL	S	P	E	RISK AFTER REDUCTION	MEASURE EXECUTED
X	OTHER HAZARDS												
1	<p>The power supply box does not have a Parthos type designation. This is a shortcoming in light of applicable laws and regulations and involves several risks.</p> 	Various dangers due to the lack of traceability data	ALL					Provide the power supply box with a nameplate with traceability data.					

3. CONCLUSION

Certification Company was commissioned by Parthos B.V. ('**client**' and/or '**manufacturer**') to carry out a risk analyses on the operable wall, type Palace 110-S Semi Automatic. The mentioned risks have been addressed and risks reduction proposals have been implemented.

Almere, September 13th

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ANNEX I INSPECTION PICTURES

