

RISK ASSESMENT

When assessing the likelihood and severity, the following tables can be used for guidance:

LIKELIHOOD		
Probability	Description	Score
Very Likely	An almost certain chance of injury or accident	5
Probable	Unsafe behaviour or other factors will cause an injury	4
Possible	An incident may occur if the situation changes	3
Remote	Several factors need to be present for the incident to occur	2
Improbable	There is no real risk present	1

SEVERITY		
Severity	Description	Score
High	Causing death to one or more people	5
Major	A severe injury e.g. amputation, loss of sight, major fracture	4
Medium	Injury that may keep someone off work for more than 1 day	3
Low	Injury requiring first aid but no time off work	2
Nil	No risk of injury	1

		Potential Severity of Harm				
		5	4	3	2	1
Likelihood of Harm	Risk Matrix	High	Major	Medium	Low	Nil
	5 Very Likely	25 High	20 High	15 Medium	10 Low	5 Trivial
	4 Probable	20 High	16 Medium	12 Medium	8 Low	4 Trivial
	3 Possible	15 Medium	12 Medium	9 Low	6 Low	3 Trivial
	2 Remote	10 Low	8 Low	6 Low	4 Trivial	2 Trivial
	1 Improbable	5 Trivial	4 Trivial	3 Trivial	2 Trivial	1 Trivial

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Activity	Hazard	Persons at risk	Control measures	Likelihood	Severity	Rating
Moving expance unit	Manual Handling Electrical Shock	Staff and Keyholders	If Expance neds to be moved, 2 people minimum and appropriate safety foot wear Expance must be disconnected from mains power before moving unit Portable Appliance Testing conducted annually as part of service visit. Do not use if electrical cable or outlet is damaged – report to Reaction Group for repair	Remote 2	Medium 3	Low 6
Untrained users using restricted Expance features	Ozone release set at incorrect time / ozone inhalation	Building Users	Expance users must have been designated 'Keyholders' by undertaking Reaction Group Training Ozone release keys must not be disseminated to untrained Keyholders Software codes must not be disseminated to untrained Keyholders Keys must never be left inside the ozone arm keyswitch	Possible 3	Medium 3	Low 9
Exposure to UVC Light	Injury from UVC exposure	Building Users	Unit covers must not be removed by non-Reaction Group personnel Annual servicing to replace perishable parts	Remote 2	High 5	Low 10
Incorrect Ozone Time Set	Ozone Inhalation	Building Users	Only trained keyholders allowed access to keys and codes to set ozone release times Ozone arm key switch procedures to be used. Key switches must be disarmed when building is occupied Keys must never be left inside the ozone arm keyswitch	Possible 3	Medium 3	Low 9
Persons present in / entering area whilst ozone release cycle active	Ozone Inhalation	Building Users	All building users to be made aware of Expance Use and how to use emergency stop switch Safety signage to be erected in building, explaining use, emergency stop and times of zone release / not to enter during these times Doors to ozone release zones to be locked whenever practicable, when ozone is in use Provisions for the above to be made for non-English speakers that may be present in the building	Possible 3	Medium 3	Low 9
Ozone spread to other release through air handling systems	Ozone Inhalation	Building Users	HVAC contractors / responsible persons to be contacted and a separate risk assessment to be made where appropriate Air handling systems identified as a potential risk should be deactivated during ozone release cycle times	Low 2	Remote 3	Low 6
Ozone damage to livestock or property	Ozone Damage	Animals and Property	No living animals to be present whilst ozone cycle is active Delicate items like paintings and antiques should be removed from the area	Nil 1	Low 1	Low 1

RISK ASSESSMENT REVIEW

Assessment by: Mike Holland-Porter

Position: Technical Manager

Date: 14/02/2020

Review Date: 14/02/2021

This risk assessment is to assist with the planning and management of Expanse products on customer sites. It identifies the common hazards and risks associated with the React-Air Expanse and the primary means by which the risks are controlled.

THIS IS A SAMPLE RISK ASSESSMENT ONLY – BUILDING MANAGERS SHOULD CONDUCT A SITE-SPECIFIC RISK ASSESSMENT.

If the work activity changes or deviates from that originally envisaged, we will seek further advice and request an amended risk assessment.

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