clark equipment

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Information for
Ingersoll-Rand Portable Compressor

RISK ASSESSMENT

Models 7/21 – 7/120

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APPLICABILITY

The following Risk Assessment document is applicable to the following models of Clark Forklift Truck:

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RISK INFORMATION

Consistent with the requirements of the Australian nationally harmonised Work Health and Safety Act and the Work Health and Safety Regulation, an assessment of risk has been conducted by the manufacturer, and used to produce the manuals and instructions which are supplied with a new machine.

You are directed to read and understand the Operations & Maintenance Manuals, as well as any other documentation provided, which show the risks presented by this machine.

RISK ASSESSMENT - Portable Air Compressor

Subject: Ingersoll-Rand, Air Compressor Model 7/41

	HAZARD	RISK Detail	LEVEL	CONTROL
1. Suitability of the type of plant for the particular task				
1.1	No risk identified if used within the capabilities outlined in the Operator Manual			
2. Actual and intended use in the workplace				
2.1	Compressor move from tow vehicle	Crush injury	Medium	Chock wheels when not attached to tow vehicle
2.2	Hoselines run poorly on site - get cut	Whip / strike injury	High	Always protect hoses and plan layout of hoses onsite
2.3	Person is air blasted	Compression injury	Medium	As per Operator Manual, never direct compressed air at people
2.4	Machine rolls away after parked on slope without chocks	Crush injury	Medium	Chock wheels when not attached to tow vehicle. Never park on slope
2.5	Incorrect fittings used - hose fail	Whip / strike injury	Medium	Always use correct hose fittings. Check integrity daily
3. Environmental conditions and terrain in which plant is used				
3.1	Machine rolls away after parked on slope without chocks	Crush injury	Medium	Chock wheels when not attached to tow vehicle. Never park on slope
3.2	Machine used in confined area	Poisoning death from exhaust gas	High	Always use in open and well ventillated areas.
3.3	Machine used in confined area	Hearing damage due to noise	Medium	Always use hearing protection and use in open areas to reduce noise reflection/amplification
3.4	Machine used in suburban areas	Hearing damage due to noise	Medium	Always use in open areas and abide by local noise restrictions. Always use hearing protection
4. Foreseeable abnormal situations, misuse and fluctuation of operating conditions				
4.1	Incorrect tooling used	Failure of equipment - severe injury to operator	Medium	Always use correct tooling, appropriate to the machine and environment
4.2	Machine rolls away after parked on slope without chocks	Crush injury	Medium	Chock wheels when not attached to tow vehicle. Never park on slope
4.3	Incorrect fittings used - hose fail	Whip / strike injury	Medium	Always use correct hose fittings. Check integrity daily
4.4	Overheat engine	Burn injury when checking engine	Medium	Daily maintenance to check coolant level. Maintenance by trained & experienced technicians
4.5	Flat tyre - continue to travel	Equip damage, possible rollover	Low	No risk identified to humans
4.6	Not tie machine down correctly during transport	Comes off transport, rolls into pedestrian	Medium	Tie points are coloured - refere to Operator Manual
4.7	Incorrect fuel used	Damage to equipment only		
4.8	Brake system not maintained/connected properly	Run away machine - impact bystander	Medium	Refer to Operator Manual for correct maintenacne procedure. Daily maintenance to identify
4.9	Lift compressor onto tow vehicle without jockey wheel	Back injury	Medium	Alwas use jockey wheel to lift and lover the compressor on/off the towing vehicle
5. Potential for injury due to entanglement, crushing, trapping, cutting, stabbing, puncturing, shearing, abrasion, tearing and stretching;				
5.1	Engine cover hits hand	Minor strike injury	Medium	Use caution when closing access covers
5.2	Lift the engine cover without the struts working	Back injury possible	Low	Ensure struts are working, else use two people to lift for repairs.
5.3	Winding jockey wheel - hit hand	Minor strike injury	Medium	Use caution when winding jockey wheel
5.4	Connecting air hose- hand slips	Minor strike injury	High	Use caution when connecting air hoses. Try to bleed air first where possible.
5.5	Entangle in components	Shrouds cover all moving parts	Low	
6. Generation of hazardous conditions, due to pressurised content, electricity, noise, radiation, friction, vibration, fire, explosion, temperature, moisture, vapour, gases, dust, ice, hot or cold parts				
6.1	Pressurised air leaks @ fitting	Penetration/embolism	Medium	Daily maintenance to rectify all leaks
6.2	Incorrect fittings used - hose fail	Whip / strike injury	Medium	Always use correct hose fittings. Check integrity daily
6.3	Overheat engine	Burn injury when checking engine	Medium	Daily maintenance to check coolant level. Maintenance by trained & experienced technicians
6.5	Person is air blasted	Compression injury	Medium	As per Operator Manual, never direct compressed air at people
6.6	Touch exhaust pipe on hot machine	Burns	Medium	Only trained and experienced technicians to work on machine. Shrouding can be optioned.
6.7	Radiator hose split in use - hot coolant spray	Burns	Low	Shrouding covers most areas, Daily maintenance likely to pick up weak defective hose
6.8	Fan belt snap	Strike injury	Low	Shroud and cover installed
6.9	Air accumulator leak	Penetration/embolism	Low	Daily maintenance to rectify all leaks
7. Failure of the plant resulting in the loss of contents, loss of load, unintended ejection of work pieces, explosion, fragmentation or collapse of parts				
7.1	Air accumulator hose leak	Air leaks out - possible pentration injury	Low	Full enclosed. No exposure in normal operation
7.2	Air hose splits	Air leaks out - possible pentration injury	Low	Always protect hoses and plan layout of hoses onsite. Daily maintenance to rectify any worn hose
7.3	Oil tank split and drop oil	Slip hazard	Medium	Bund and clean up immediately. Some containment present.

8. Capability of the plant to lift and move people, equipment and materials and suitability of secondary back-up system to support the load

8.1	NOT APPLICABLE			

9. Control systems, including guarding and communications systems

9.1	COMMENT: Guards over all driven parts			
9.2	COMMENT: Bumper option available to protect unit from minor impact shock			

10. Potential for falling objects and the plant roll over

10.1	Machine rolls away after parked on slope without chocks	Crush injury	Medium	Chock wheels when not attached to tow vehicle. Never park on slope

11. Suitability of materials used for the plant

11.1	COMMENT: All materials engineered for this product			

12. Suitability and conditions of all accessories

12.1	COMMENT: Refer to the risk assessments provided by those manufacturers			

13. Ergonomic needs relating to installation and use

13.1	Machine used in confined area	Hearing damage due to noise	Medium	Always use hearing protection and use in open areas to reduce noise reflection/amplification
13.2	Machine used in suburban areas	Hearing damage due to noise	Medium	Always use in open areas and abide by local noise restrictions. Always use hearing protection
13.3	Lift compressor onto tow vehicle without jockey wheel	Back injury	Medium	Alwas use jockey wheel to lift and lover the compressor on/off the towing vehicle

14. Carrying out the work without the plant

14.1	COMMENT: Manual handling injuries at a greater risk by using pick and shovel type equipment			

15. Location in the workplace and the impact on workplace design and layout

15.1	Machine rolls away after parked on slope without chocks	Crush injury	Medium	Chock wheels when not attached to tow vehicle. Never park on slope
15.2	Machine used in confined area	Poisoning death from exhaust gas	High	Always use in open and well ventillated areas.
15.3	Hoselines run poorly on site - get cut	Whip / strike injury	High	Always protect hoses and plan layout of hoses onsite

16. Suitability and stability of the plant and supports

16.1	Jockey wheel collapse	Strike injury	Medium	Daily maintenance to identify and rectify any damage to components, including jockey wheel
16.2	Lift compressor onto tow vehicle without jockey wheel	Back injury	Medium	Always use jockey wheel to lift and lover the compressor on/off the towing vehicle
16.3	Tow area fail due to corrosion	strike / crush injury	Medium	Daily maintenance to identify and rectify any damage to components, including jockey wheel

17. Presence of persons and other plant in the vicinity

17.1	Bystander hearing damage	Hearing damage due to noise	High	Hearing protection required when working on or near this equipment

18. Potential for inadvertent movement or operation of the plant

18.1	COMMENT: machine is key start and has lockable covers			

19. Systems of work associated with the plant

19.1	Hoselines run poorly on site - get cut	Whip / strike injury	High	Always protect hoses and plan layout of hoses onsite

20. Access and egress

20.1	Not applicable			

21. Competency of operators

21.1	COMMENT: All operators to be appropriately trained to compentently operate and maintain machine			