

# Orca 5000 Intrinsically Safe Specifications

The Tait Orca 5000 Intrinsically Safe (IS) portable radios are essential for organizations serious about mobile communications in hazardous environments.

Manufactured to comply with Factory Mutual (FM)\* United States Approvals, the Tait Orca 5000 is rated Intrinsically Safe\* and Non-Incendive (NI).

These approvals allow the Tait Orca 5000 to be used in hazardous environments, where there is potential for the radio to be exposed to flammable gases and vapors.

- Clearly identifiable with an IS logo marked on the radio front panel and battery.
- Rugged, flexible and dependable radios, engineered to IP54 sealing and exceeding Military Standards for robustness.
- All Tait Orca 5000 IS portables are approved by Factory Mutual in the categories outlined below.

All standard Tait Orca 5000 specifications apply to the IS radios. Please see the full Tait Orca 5000 specifications.

## FM Approved\*

### IS, Class I, Division 1, Groups C, D, T3C

IS	Intrinsically Safe
Class I	Gas/petroleum, flammable gases or vapors present (Groups C, D)
Division 1	The substance referred to by Class is present.
Group C	Ethyl and Ethylene or gases of equivalent hazard
Group D	Gasoline, acetone, ammonia, methanol, natural gas, propane or gases of equivalent hazard
T3C	Temperature rating of 320°F (160°C)

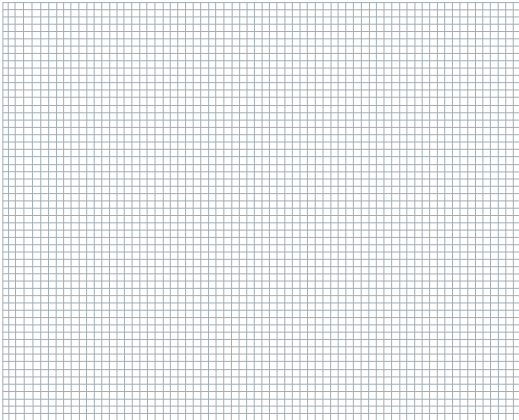
### NI, Class I, Division 2, Groups A, B, C, D, T3C

NI	Non-Incendive
Class I	Gas/Petroleum, flammable gases or vapors present (Group A, B, C, D)
Division 1	The substance referred to by class is present.
Group A	Acetylene
Group B	Hydrogen, fuel and combustible process gases containing > 30% hydrogen by volume
Group C	Ethyl and Ethylene or gases of equivalent hazard
Group D	Gasoline, acetone, ammonia, methanol, natural gas, propane or gases of equivalent hazard.
T3C	Temperature rating of 320°F (160°C)

\* Factory Mutual Approval means these radios are certified for use in hazardous environments in the United States. In other countries, ensure your use of the Tait IS portable in your work environment does not breach your local restrictions.

## General

Model	Orca 5010, 5020, 5030, 5035, 5040		
Frequency range	66-88MHz 136-174MHz 174-225MHz 336-400MHz 400-470MHz 450-530MHz 806-870MHz 896-941MHz		
Channel spacing	12.5kHz, 20kHz, 25kHz		
Transmitter power	<b>VHF</b> 1W, 2.5W, 5W	<b>UHF</b> 1W, 2.5W, 4W	<b>800/900MHz</b> 1W, 2W, 3W
Operating temperature	-22°F to 140°F (-30°C to 60°C) @ 100% duty cycle		
Environmental	MIL-STD 810 F** High/Low temperature Humidity Blowing/Dripping Rain Blowing Dust Vibration Shock Salt Fog Transit Drop Protection to IP54		
Servicing	These radios can be serviced only at FM approved service centres. Contact your local dealer for details.		
FM Approved accessories	A full range of FM accessories are available, including speaker microphones and headsets. Contact your local dealer for details.		
Battery option	TOPB500-IF 2000mAh NiMH, belt clip compatible Intrinsically Safe		
	** ALSO MEETS EQUIVALENT SUPERSEDED MIL-STD 810 C, D AND E.		



ISO 9001  
ISO 14001



Tait is your complete supplier of radio communications equipment offering mobile, portable and infrastructure solutions. Tait is renowned for its flexibility, responsiveness and commitment to producing innovative world-class mobile radio communications products.

Specifications are subject to change without notice and shall not form part of any contract. They are issued for guidance purposes only. Please note that not all frequency bands are available in all markets.

The word Tait and the Tait logo are trademarks of Tait Electronics Ltd. Tait is an ISO9001: 2000 and ISO 14001: 2004 certified supplier.

AUTHORIZED DEALER