

NESI Electrochemical Cells

Technical Data



		NORSCAND® A15	NORSCAND® NS-12	NORSCAND® NS-01
	Use Case	Commercial Plant	Demonstration Plant / Hydraulic Testing	Research and Development
Cell Data	Cell Area (m ²)	1.5	0.17	0.015
	Number of Compartments (Standard Design)	OR 2 to 3	OR 2 to 3	OR 2 to 3
	Design Current Density (kA/m ²)	5	5	5
	Electrode Gap Configuration	Zero or Finite Gap	Zero or Finite Gap	Zero or Finite Gap
	Design Conditions	93°C / 35 kPa(g)	93°C / 35 kPa(g)	90°C / 55 kPa(g)
	Electrolyte Flow per Frame, Cell [L/min]	5 to 12	0.5 to 1.7	1 to 3.5
Electrolyser Dimensions	Height (mm)	1260 (per cell) 2500 (50 cell stack frame)	1390	270
	Width (mm)	1924 (per cell) 2200 (50 cell stack frame)	485	180
	Width Length (mm) (2-compartment)	93 (per cell) 6700 (50 cell stack frame)	354	85
Pipe Connections	Inlet	½" OD Tube	½" OD Tube	¼" FNPT
	Outlet	1" OD Tube	¾" FNPT	½" FNPT
Materials	Hydraulic Frame Materials (Standard)	Stainless Steel / Titanium	CPVC, P72	CPVC, P72
	Sealing/Gasket Materials (Standard)	Peroxide Cured EPDM	Peroxide Cured EPDM	Peroxide Cured EPDM
	Ion Exchange/Selective Membranes, Diaphragms	Various		
	Electrode Materials	Stainless Steel, Nickel, Titanium, etc.		
	Coated Electrodes	DSA for Cl ₂ or O ₂ Evolution (Iridium and Ruthenium Mixed Metal Oxides)		

~~Depends on the chemistry, cell configuration and electrode materials.~~

~~Depends on cell configuration. Value provided is for 2 compartment configuration.~~

"O₂" not "O₂"