HXD-V1 · FIRST START

First start checklist

The first start is done with a HydroXpand engineer. Complete section 1, then contact us to schedule it. Section 3 is the baseline for later comparison.

Serial number	Location	First start date	Done by

Firmware version	HXB-V1 units connected	Dew point sensor (yes / no)	HydroXpand engineer

Do not start

Purge the air from the lines before any hydrogen flows. Hydrogen mixed with air can cause a fire or explosion.

1. Before you start

- [ ] Vents: PURGE and DEPR. run to a safe place outdoors with no valve or cap
- [ ] Drain: DRAIN runs through a liquid trap to the vent system
- [ ] Gas lines: H2 IN and H2 OUT connected. Sample outlet connected or capped
- [ ] Power: Earthed outlet, 200-240 V AC. ON/OFF switch off
- [ ] Network: Ethernet connected to the network that the control PC uses
- [ ] Electrolysers: HXB-V1 units installed and ready to start as described in their handbook

2. First start (with a HydroXpand engineer)

- [ ] Air purged from the lines, every joint leak-checked at operating pressure _____ barg
- [ ] Regeneration cycle setting in the software checked (factory / changed)
- [ ] Product sent to vent until it reaches the dew point you need _____ °C
  Read on the dew point sensor (option) or an analyser at H2 SAMPLE OUT
- [ ] Accepted: no H2 leaks · inlet ≥ 9.5 barg · 150 °C and switch in cycle 1 · no FS/ES · dew point ≤ -65 °C

3. Baseline record (once at dew point)

- [ ] Operating pressure (outlet) _____ barg
- [ ] Inlet pressure _____ barg
- [ ] First outlet dew point _____ °C
  Sensor or analyser
- [ ] Time to reach the dew point _____ h

Remarks (alarms during start-up, differences from the factory te

Done by	Checked by