

LAUDA DV 400 LNII + Pump module

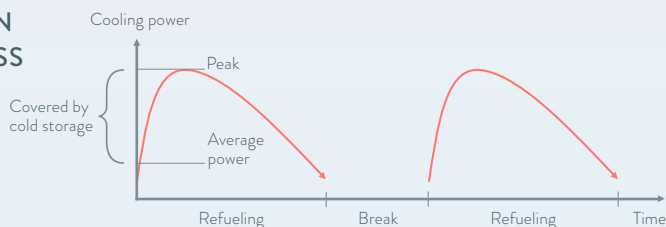
Process cooling system
for hydrogen refueling stations



Technical data

Application	Cooling for hydrogen refueling stations for T30, H70 / H35 dispenser
Cooling capacity	100 kW at -40 °C
Peak cooling capacity	310 kW (2 chillers + pump module)
Continuous cooling capacity	50 kW (per chiller)
Design temperature range	-50 to 50 °C
Operating temperature range	-45 to -20 °C
Heat transfer medium	Aqueous potassium formate solution (HYCOOL 50, Fragoltherm W-FKA)
Flow rate of heat transfer medium	Approx. 9 m ³ /h depending on the application
Control accuracy	±1 °C
Refrigerant (GWP)	1st stage: R-1270 (propene, GWP 2), 2nd stage: R-170 (ethane, GWP 6)
Dimensions (W × D × H)	Approx. 1,400 × 2,800 × 2,930 mm
Installation	Outdoor, access area Category C according to EN 378-1
Ambient temperature	-20 to 40 °C
Power supply	400 V; 3/PE; 50 Hz
Max. power consumption	Approx. 95 kW
Max. current consumption	Approx. 160 A
Sound pressure level	Approx. 85 dB(A) in 1 m at full load

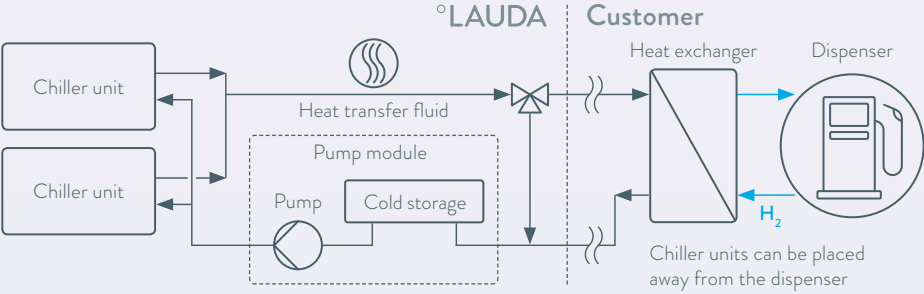
TYPICAL HYDROGEN REFUELING PROCESS





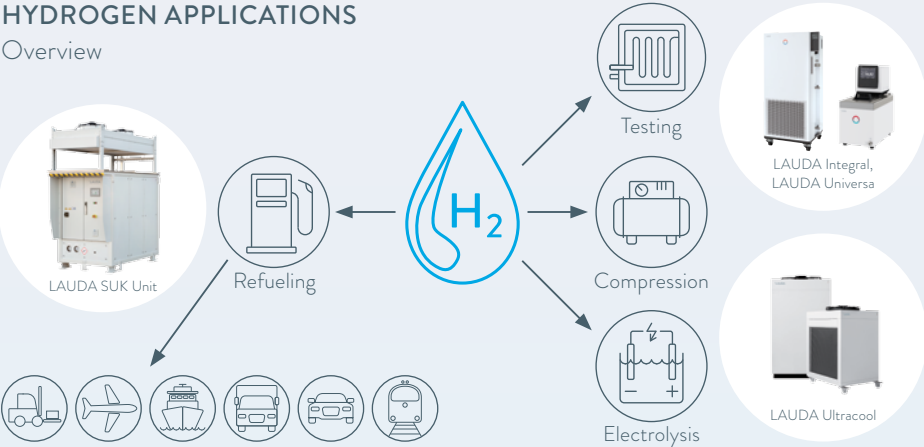
PREPARED FOR THE FUTURE – THE MODULAR SYSTEM

Different operating conditions at the refueling stations – Schematic illustration



HYDROGEN APPLICATIONS

Overview



Support along the entire value chain!

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