

LAUDA SUK 350 LN

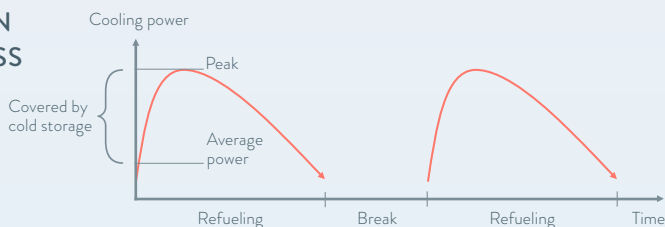
Process cooling system
for hydrogen refueling stations



Technical data

Application	Cooling for hydrogen refueling stations for T20 / T40 dispenser
Cooling capacity	22 kW at -30 °C HTF outflow temperature
Peak cooling capacity	35 kW (Peak capacity for 1 minute)
Continuous cooling capacity	27 kW at -21.5 °C outflow temperature / 25 °C ambient temperature
Design temperature range	-40 to 50 °C
Operating temperature range	-35 to 40 °C
Heat transfer medium	Aqueous potassium formate solution (HYCOOL 50, Fragoltherm W-FKA)
Flow rate of heat transfer medium	5 m ³ /h at 2 bar external pressure drop
Control accuracy	±1 °C (in steady state at a minimum of 10 % load)
Refrigerant (GWP)	R-1270 (GWP 2)
Dimensions (W × D × H)	Approx. 1,500 × 2,690 × 2,820 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. 40 kW
Max. current consumption	Approx. 65 A
Sound pressure level	Approx. 80 dB(A) in 1 m at full load

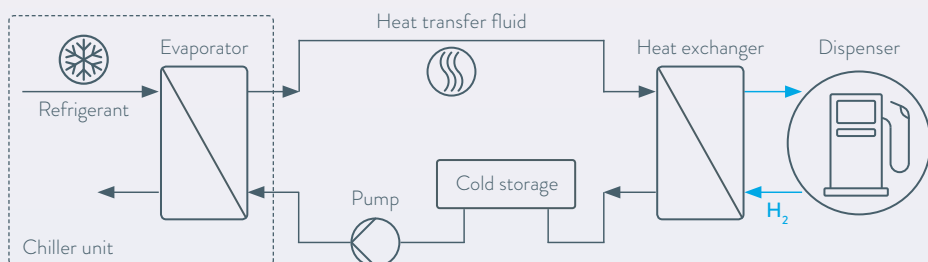
TYPICAL HYDROGEN REFUELING PROCESS





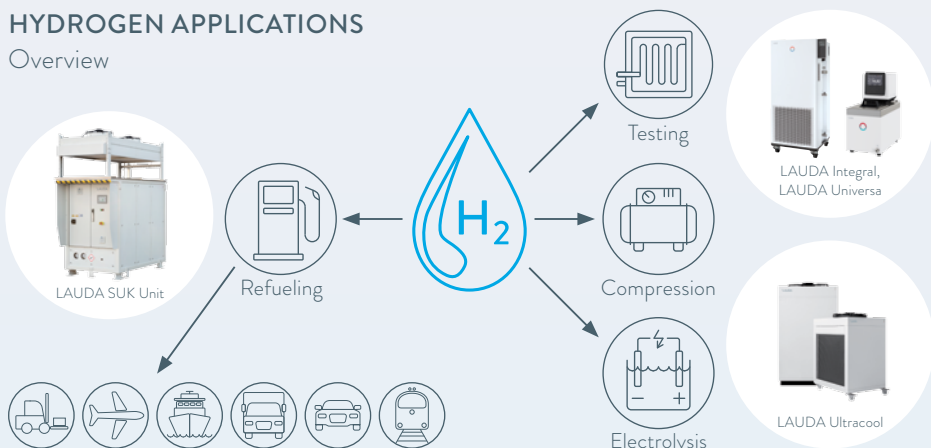
INDIRECT COOLING SYSTEM WITH BUFFER TANK

Schematic illustration



HYDROGEN APPLICATIONS

Overview



Support along the entire value chain!

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