

LAUDA SUK 400 LNII

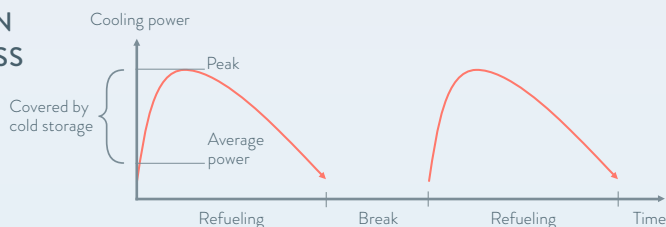
Indirect cooling system for hydrogen refueling stations T40 dispenser



Technical data

Application	Cooling for hydrogen refueling stations for T40 dispenser
Peak cooling capacity for T40 refueling	90 kW
Continuous cooling capacity	40 kW at -42°C outflow temperature
Design temperature range	-50 to 50°C
Operating temperature range	-45 to -20°C
Heat transfer medium	Potassium formate based (e.g. HYCOOL 50)
Flow rate of heat transfer medium	$5\text{ m}^3/\text{h}$ at 2 bar external pressure drop
Control accuracy	$\pm 1^{\circ}\text{C}$ (in steady state at a minimum of 10 % load)
Refrigerant (GWP)	1st stage: R-1270 (propene, GWP 2) 2nd stage: R-170 (ethane, GWP 6)
Dimensions (W × D × H)	Approx. $1,400 \times 2,980 \times 2,700\text{ mm}$
Installation	Outdoor (optional with C4 protection class)
Ambient temperature	-20 to 40°C
Power supply	400 V; 3/PE; 50 Hz
Max. power consumption	Approx. 78 kW
Max. current consumption	Approx. 132 A
Sound pressure level	Approx. 75 dB(A) in 1 m at full load

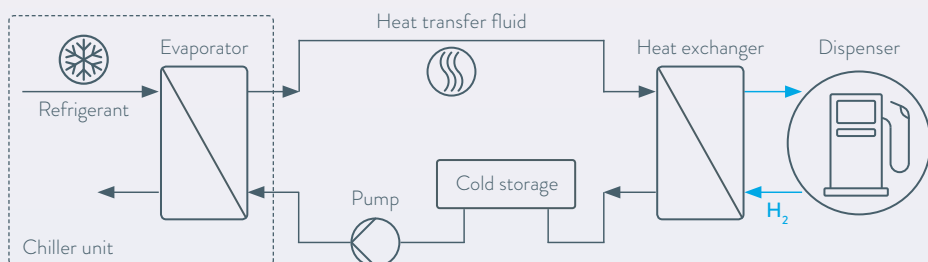
TYPICAL HYDROGEN REFUELING PROCESS





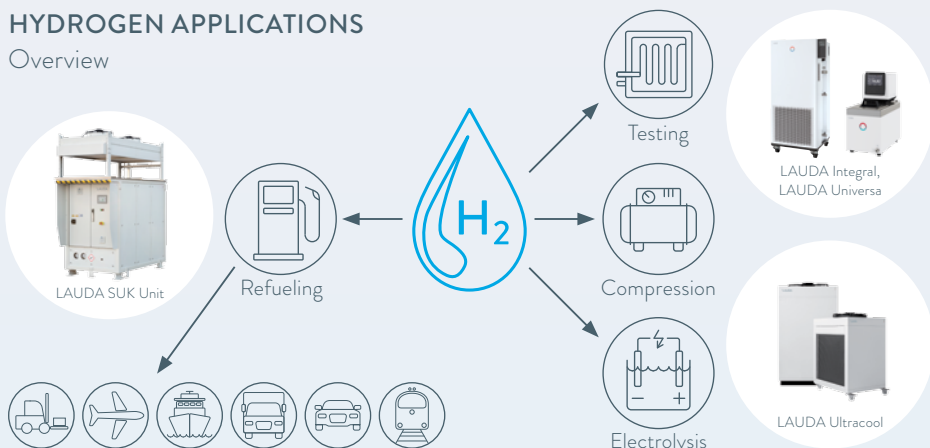
INDIRECT COOLING SYSTEM WITH BUFFER TANK

Schematic illustration



HYDROGEN APPLICATIONS

Overview



Support along the entire value chain!

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