

X-STORE® GAS CONTAINER MODULES, VERSION ADR V2

FULL CARBON DESIGN, 250 BAR, H₂



HEXAGON

		X-STORE 10 ft	X-STORE 20 ft	X-STORE 30 ft	X-STORE 40 ft	X-STORE 45 ft
Approval	Cylinders	According to ISO 11119-3 / EN 12245				
	System	ADR approved and leak tested according to DIN EN 1779				
	Container	According to ISO 668 including CSC approval				According to CSC
	Corner castings	According to ISO 668				
Hydraulic capacity, approx.	l	8,400	18,900	29,400	39,900	45,150
Nominal transport capacity H ₂ (15 °C) ¹⁾	m ³	1,800	4,050	6,305	8,555	9,680
Container (length x width x height)	mm	3,048 x 2,438 x 2,743	6,058 x 2,438 x 2,743	9,087 x 2,438 x 2,743	12,192 x 2,438 x 2,743	13,176 x 2,438 x 2,743
Net weight container, approx. ²⁾	kg	4,265	8,730	13,100	17,315	19,480
Gas weight H ₂ (D=0.084 kg/m ³) ¹⁾	kg	150	340	530	720	815
Total container weight + H ₂ ¹⁾²⁾	kg	4,415	9,070	13,630	18,035	20,295
Quantity cylinders, 350 l	pcs	24	54	84	114	129
Minimum residual pressure (15 °C)	MPa (bar)	1 (10)				
Operating pressure (15 °C)	MPa (bar)	25 (250)				
Burst pressure, min.	MPa (bar)	75 (750)				
Cylinder operating temperature min./max.	°C	-40 / +65				
Cylinder type		Type 4				
Cylinder marking		TC_500_1				
Cylinder design		Full carbon				
Cylinder liner material		High density polyethylene (HDPE)				
Service lifetime		Unlimited				
Inspection standard		ISO 11623				

1) The filling process underlies the complex physical laws of fluid mechanics. The actual filling volume depends on several factors: chemical composition of gas, ambient temperature, filling speed and inlet temperature which in turn, depend on the equipment of the compressor station (compressors, chillers, piping, valves and fittings). Therefore an exact statement about the real filling volume cannot be given. Typically filling efficiencies of 75-95% are reached.

Metric unit system

2) +1 % tolerance due to manufacturing reasons



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