

# X-STORE® GAS CONTAINER MODULES, VERSION ULTRA LIGHTWEIGHT (ULW) V3

FULL CARBON DESIGN, 250 BAR, CNG



HEXAGON

		X-STORE 10 ft	X-STORE 20 ft	X-STORE 30 ft	X-STORE 40 ft	X-STORE 45 ft	X-STORE 48 ft	X-STORE 53 ft
Approval	Cylinders	According to ISO 11439						
	System	Leak tested according to DIN EN 1779						
	Container	According to CSC						
	Corner castings	According to ISO 668						
Hydraulic capacity, approx.	l	10,350	22,500	35,100	47,250	53,100	57,600	63,000
Nominal transport capacity CNG (15 °C) <sup>1)</sup>	m <sup>3</sup>	3,040	6,605	10,305	13,875	15,595	16,915	18,500
Container (length x width x height)	mm	3,048 x 2,550 x 2,896	6,058 x 2,550 x 2,896	9,087 x 2,550 x 2,896	12,192 x 2,550 x 2,896	13,176 x 2,550 x 2,896	14,630 x 2,550 x 2,896	16,154 x 2,550 x 2,896
Net weight container, approx. <sup>2)</sup>	kg	4,375	8,770	13,170	17,370	19,385	20,970	23,020
Gas weight CNG (D=0.75 kg/m <sup>3</sup> ) <sup>1)</sup>	kg	2,280	4,955	7,73	10,405	11,695	12,685	13,875
Total container weight + CNG <sup>1)2)</sup>	kg	6,655	13,725	20,900	27,775	31,080	33,655	36,895
Quantity cylinders, 450 l	pcs	23	50	78	105	118	128	140
Minimum residual pressure (15 °C)	MPa (bar)	1 (10)						
Operating pressure (15 °C)	MPa (bar)	25 (250)						
Burst pressure, min.	MPa (bar)	59 (590)						
Cylinder operating temperature min./max.	°C	-40 / +65						
Cylinder type		Type 4						
Cylinder marking		TC_540_3						
Cylinder design		Full carbon						
Cylinder liner material		High density polyethylene (HDPE)						
Service lifetime		Limited to 20 years						

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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