



Clean Energy Solution Company

MEGC FOR CNG TRANSPORT TYPE I CYLINDERS



EKC INTERNATIONAL FZE, DUBAI



SALIENT FEATURES

- **Size:**

EKC19200/17670: Unit was designed as per ISO 668, certified CSC, with dimensions of a standard 20FT container. This allows for unit to be transported by maritime means without container and transported by road with use of regular container platforms and locks.

EKC8400: The unit, 10FT long, has been designed to be fitted in pairs using the same space as a 20FT container.

EKC6800: The unit, 10FT long, has been designed to be fitted in pairs using the same space as a 20FT container. However, the total width is variable by means of telescopic beams that contain the twist locks and that may be retracted for transport inside standard containers and extended to adjust the standard twist lock casting positions on trailers and platforms.

- **ADR:** Our 20 Ft. MEGC's frames are designed to withstand multidirectional forces as per ADR Regulations.
- **Charge / Discharge Connection:** Inlet / Outlet receptacles to be provided as per customer requirement.
- **High Pressure Connections:** Single bank connections will be provided with standard version of MEGC. Optional Three Bank connection will be provided as per customer's request.
- **Pressure Gauges/Isolation Valves:** Glycerin pressure gauges and Isolation valves are provided for each segment of 24 cylinders. Isolation valves in SS 316 material.
- **Special Items:** Digital temperature gauges provided with the system. Pressure transmitter, Temperature Transducer, Pneumatic actuator & GPRS enabled Data communication system (as an option) can be supplied upon customer request.

- **Structure:** Design allows securing through typical twist lock castings in all corners, lifting provision for crane provided. Our 20 Ft. frame is CSC certified by DNV, EKC CSC code is PKKU.

- **Valves:** Every Tube element have own safety devices built in the isolation Valve having TPRD (Thermal pressure relief device) which is set at 110°C and PRD (Pressure Relief Device or Burst Disc) which is set in- between Working pressure and Test Pressure of the Tube element.

- SGS Gulf performs leakage test on all units (except ADR certified units) and issue Inspection report / certificate.

- **Benefits:**

- **Use of double neck cylinders permits for installation of a drain system that allows a highly effective expulsion of oil and condensates accumulated in the bottom of the cylinders. (Drain system is optional as per customer's request). This significantly increases the reliability of the system by ensuring full volumetric capacity and reduces exposure to corrosion factors inside the cylinders.**



- **Modularity:** Simple variation of cylinder capacity allows for different models to be supplied with the same overall frame design in all sizes.

WIDE RANGE OF MODELS WITH CAPABILITIES FOR VARIOUS USES

	Model No.	Total Water Capacity Liters	Working Pressure 'Bar'	Total Volume in m3 @15°C	Length of MEGC 'mm'	Width of MEGC 'mm'	Height of MEGC 'mm'	Approx. Empty Weight of MEGC 'Tons'	Approx. Gross Weight of MEGC 'Tons'	Bank System	Drain Manifold	Cylinders Standard
20 FEET MEGC	EKC5900MPA25SN1SC1	19200	250	5900	6058	2438	2896	26.1	30.2	SINGLE / THREE	NO	9809-1
	EKC5584MPA25DN1SC1	18240	250	5584	6058	2438	2896	25.2	29.1	SINGLE / THREE	YES	9809-1
	EKC5410MPA25DN1SC3	17670	250	5410	6058	2438	2896	25.1	29.1	SINGLE / THREE	YES	9809-1
	EKC5410MPA25SN1SC3	17670	250	5410	6058	2438	2896	25.1	29.1	SINGLE / THREE	NO	9809-1
	EKC5124MPA25SN1SC3	16740	250	5124	6058	2438	2896	23.6	27.2	SINGLE / THREE	NO	9809-1
	EKC4824MPA20SN1SC1	19680	200	4824	6058	2438	2896	22.8	26.2	SINGLE / THREE	NO	9809-1
	EKC4706MPA20DN1SC1	19200	200	4706	6058	2438	2896	22.3	25.6	SINGLE / THREE	YES	9809-1
	EKC6024MPA25SN2SC1	19680	250	6024	6058	2438	2896	24.7	28.9	SINGLE / THREE	NO	9809-2
EKC5900MPA25DN2SC1	19200	250	5900	6058	2438	2896	23.8	27.9	SINGLE / THREE	YES	9809-2	
10 FEET MEGC (SPL)	EKC2020MPA25SN1SC1	6600	250	2020	2991	2438	2480	10.3	11.7	SINGLE / THREE	NO	9809-1
	EKC1960MPA25DN1SC1	6400	250	1960	2991	2438	2428	10	11.4	SINGLE / THREE	YES	9809-1
	EKC1960MPA25DN2SC3	6400	250	1960	2991	2438	2428	10	11.4	SINGLE / THREE	YES	9809-2
	EKC2082MPA25SN1SC3	6800	250	2082	2991	2438	2518	10.6	12.1	SINGLE / THREE	NO	9809-1
	EKC2082MPA25SN2SC1	6800	250	2082	2991	2438	2375	9.9	11.4	SINGLE / THREE	NO	9809-2
	EKC2020MPA25DN2SC1	6600	250	2020	2991	2438	2375	9.7	11.1	SINGLE / THREE	YES	9809-2
10 FEET MEGC	EKC2314MPA25SN1SC1	7560	250	2314	2991	2438	2591	11.6	13.2	SINGLE / THREE	NO	9809-1
	EKC2314MPA25SN2SC3	7560	250	2314	2991	2438	2591	10.9	12.5	SINGLE / THREE	NO	9809-2
	EKC2378MPA25SN1SC1	7770	250	2378	2991	2438	2591	11.8	13.5	SINGLE / THREE	NO	9809-1
	EKC2378MPA25SN2SC1	7770	250	2378	2991	2438	2591	11.1	12.76	SINGLE / THREE	NO	9809-2
	EKC2475MPA25SN1SC1	7980	250	2475	2991	2438	2591	12	13.7	SINGLE / THREE	NO	9809-1
	EKC2475MPA25SN2SC1	7980	250	2475	2991	2438	2591	11.3	13	SINGLE / THREE	NO	9809-2
	EKC2571MPA25DN1AC1	8400	250	2571	2991	2438	2896	13.5	15.3	SINGLE / THREE	YES	9809-1
	EKC2571MPA25DN2AC1	8400	250	2571	2991	2438	2896	12.7	14.5	SINGLE / THREE	YES	9809-2

- ALL OUR 20 FEET MEGC ARE CSC CERTIFIED BY TPI AGENCY.
- OUR 20 FEET MEGC CAN BE SUPPLIED WITH INTERMODAL TRANSPORTATION APPROVALS (CERTIFICATES) LIKE ADR / RID / IMDG UPON CUSTOMER REQUEST.
- OUR 10 FEET MEGC CAN BE SUPPLIED WITH INTERNATIONAL CERTIFICATION LIKE ADR / ISO UPON CUSTOMER REQUEST.
- SIMILAR MODULES CAN BE SUPPLIED FOR BULK TRANSPORTATION OF INDUSTRIAL GASES LIKE H2, He, N2.
- SIMILAR MODULES CAN BE SUPPLIED WITH HIGHER WORKING PRESSURE.
- VOLUME OF THE GAS DEPEND UPON THE COMPOSITION, DENSITY AND TEMPERATURE.



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