

# Energetic independence

Arena Zagreb, 2 x LDE 910 MTU



 **STUBELJ**

Series LDE MTU

Strength and reliability

# Series LDE MTU



## LDE Series

Genset for island operation, standby and parallel operation with the network and / or other genset. Standard equipment of the generating sets: engine cooling system, starter, alternator and exhaust silencer, alternator with automatic voltage regulator (AVR), base-frame with fuel tank and the collecting vessel, basic wiring, batteries, coolant and lubricating oil.

## MTU ENGINES

MTU engines provide low fuel consumption and long service intervals, while achieving low emissions. Because of their rigid design engines operate smoothly and with minimal vibration. Because of low vibration the engines are suitable for operation in sensitive environments as well as in extreme conditions. For optimal performance, the engines are designed to allow the acquisition of high load in one step. This means that you can quickly take the required loads and can be used for the most demanding applications. Engine development for a friendly service and maintenance allows a minimum loss of time and failure to act during these tasks. MTU engines are distinguished by low fuel consumption and low maintenance costs.

## ALTERNATORS

The alternators are synchronous, three-phase, brushless, self-regulated, self-excited, self-ventilated and 4 pole. Insulation class H (temperature rise according to class F or B on request). Tropical impregnation for salty-humid

environment is possible on request. Automatic voltage regulation. Protection class IP21 or IP23 (other class on request).

## BASE FRAME

Steel construction - monobloc. Anti-vibration mounting to eliminate the vibration. Powder coated with primer and cover color. The base frame is designed to enable simple lifting and moving the generating set.

## FUEL TANK

The fuel tank is mounted on the inside of the base frame. Under the fuel tank, a collecting vessel is mounted, which prevents outpouring of any liquid from the generating set into the environment. Equipped with all necessary connectors and sensors. Standard autonomy of the tank is 8-10 hours at 75% load. Additional freestanding double wall tanks and automation for pumping fuel on demand.

## HOUSING

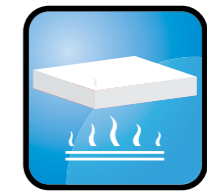
Sound-insulated housing, suitable for outdoor installation. Standard noise level of 72 dBA  $\pm$  3 dB at a distance of 7 m (lower sound levels on request). 4 large doors for easy access to the genset for maintenance and servicing. Powder coated housing with primer and cover color RAL7035 (other colors upon request).

## CONTROL PANELS

**Manual** – includes a manual control unit (push button / key start type), main circuit breaker, differential protection and all auxiliary controls and alarms.

**Automatic** – includes an automatic control unit that starts the genset in case of mains failure (it can be started manually too), main circuit breaker, differential protection and all auxiliary controls and alarms, button for emergency stop, changeover genset / mains (ATS) on request.

**Synchronization** – automatic control cabinet for synchronization more generating sets and / or main electricity network and parallel operation. Additional and special control and switching cabinets for genset on demand.



Heating of the fuel tank



Additional fuel tanks



Noise control absorber



Genset communication with control systems, mobile phone and e-mail



Automatic system for pumping fuel + pump



Service kit



Transport trailer



## Arena Zagreb – LDE 910 MTU

Gensets (2 units) are located on the largest sports facility in Croatia - Zagreb Arena. Each can reach 910 kVA. Automatic synchronization control cabinet with power changeover genset / mains supports parallel operation of two generating sets and provide the total power of 1820 kVA. Genset is designed to meet specific customer requirements with a reduced level of noise at 65 dBA and an additional freestanding double wall metal fuel tank. Special care automation for pumping fuel from the bulk tank in daily fuel tank in the base frame of the genset.

## Genset type

Series LDE MTU					50 Hz - 400/230 V 1500 rpm		Overall dimensions and weights - GenSet without housing		Overall dimensions and weights - GenSet with housing (72±3 dBA - 7m)	
Type	Engine	Cylinders	Volume (cm <sup>3</sup> )	Fuel consumption 75% load - g/kWh	Standby power (kVA)	Prime power (kVA)	LxWxH (mm)	Weight (kg)	LxWxH (mm)	Weight (kg)
LDE 700 MTU	12 V 2000 G25	12	23880	204	<b>700</b>	630	4400x2000x2350	6250	4400x2000x2550	6950
LDE 880 MTU	12 V 2000 G65	12	23880	202	<b>880</b>	800	4400x2000x2350	6500	4400x2000x2550	7200
LDE 1020 MTU	16 V 2000 G25	16	31840	196	<b>1020</b>	925	5000x2000x2350	7670	5000x2000x2550	8500
LDE 1120 MTU	16 V 2000 G65	16	31840	195	<b>1120</b>	1020	5000x2000x2350	9300	5000x2000x2550	8700
LDE 1265 MTU	18 V 2000 G65	18	35820	200	<b>1265</b>	1150	5500x2300x2500	9300	5500x2300x2650	10200
LDE 1880 MTU	12 V 4000 G23	12	57200	194	<b>1880</b>	1670	7000x2500x2600	12500	container 40 ft	19500
LDE 2085 MTU	12 V 4000 G63	12	57200	190	<b>2085</b>	1880	7000x2500x2600	13000	container 40 ft	20000
LDE 2285 MTU	16 V 4000 G23	16	76300	193	<b>2285</b>	2145	7500x2500x2800	15500	container 40 ft	22300
LDE 2595 MTU	16 V 4000 G63	16	76300	193	<b>2595</b>	2285	7500x2500x2800	16200	container 40 ft	23000
LDE 2870 MTU	20 V 4000 G23	20	95400	199	<b>2870</b>	2610	8500x2800x3200	21000	container 40 ft	28800
LDE 3170 MTU	20 V 4000 G63	20	95400	196	<b>3170</b>	2870	8500x2800x3200	21800	container 40 ft	29600
LDE 3310 MTU	20 V 4000 G63 L	20	95400	195	<b>3310</b>	3075	8500x2800x3200	22600	container 40 ft	30400

All data in this catalogue are informative and are subject to changes without prior notice.

## Warranty, service and maintenance

All our gensets have 12-month warranty. We offer fast and quality service, because we have properly trained service technicians and we use only original spare parts. We give guarantee even on our services and on spare parts.

