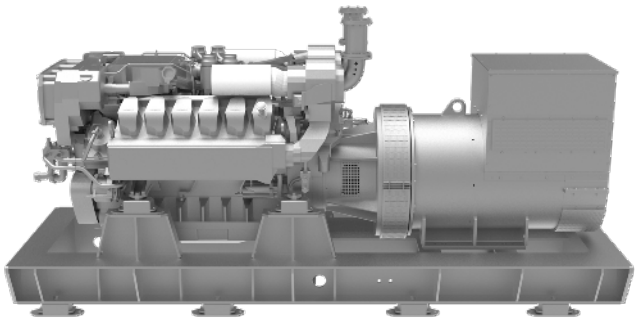
Q30000 Series



GENSET WEIGHT & DIMENSIONS

	Without Soundshield	With Soundshield
Weight, kg [lbs]	6600 [14550,51]	8254 [18196,96]
Length, mm [in.]	4000 [157,48"]	5000 [196,85"]
Width, mm [in.]	1750 [68,89"]	1750 [68,89"]
Height, mm [in.]	1500 [59,06"]	1860 [73,22"]

GENERATOR RATINGS

Genset	Volts	Phases	Amps per Phase	kWe/kVA PRP
920ST60	440-480-690	3	1084	920/1150
920WT60	440-480-690	3	1084	920/1150

Cos Phi = 0,8
PRP = Prime Running Power

POWER CLASS According to ISO 8528-1.

Prime **R**unning **P**ower - Unrestricted running time. Time at full load ≤ 5500hrs/year. Load variation ≤ 75 % of rated power. 10 % overload is allowed for 1hr every 12hrs.

General Characteristics

- Designed, Assembled and Tested by NANNI.
- Standard arrangement with 2-bearing motor and alternator, connected by a clutch housing and resiliently supported on the support frame.
- Common Rail Electronic Injection.
- Integrated lubrication system with extraction pump.
- Motor-integrated raw water cooling with pump, heat exchanger and expansion tank.
- Control box with 3-meter cable for flexible installation in engine compartment.

Engine features

- MAN Engine Base - EPA Tier III - 60 Hz
- Cast-iron motor block
- Diesel engine 4 strokes, 12 cylinders, 29620 cm^3 [1807,52 in^3]
- Gear driven valve train
- Common-rail fuel injection with high pressure pump
- Automatic preheating system
- Lifting eyelets

Generator features

- Leroy Somer alternator
- Protection class: IP44
- Insulation class: H
- Voltage regulation
- Interference suppression

Standard equipement

- Bipolar 24 Volts Electric system
- Wet Exhaust
- Heat Exchanger
- Raw water Pump with neoprene rotor
- Safeguards on the main parameters
- Pressetting for paralleling system

Optional Equipement

- Pneumatic Air start
- Vessel-side cooling (HT and LT systems)
- Exhaust compensator and silencer
- Alternator heating
- Winding temperature sensors
- Alternator repair kit (Diodes, AVR, Varistor)
- Set of alternator bearings
- Set of filters (Air, Fuel, & Engine Oil)
- Warranty extension
- System Commissioning
- Support & After Sales by NANNI
- Sound shield cabin
- Double resilient mouting

PERFORMANCE DATA ENGINE 60 Hz

Genset model	920ST60 - 920WT60
Rated Power 100% (kW)	960
Max Power 110% (kW)	1056
Speed (rpm)	1800
Bore (mm)	138
Stroke (mm)	165
Displacement (liters)	29,62
Rated torque (Nm)	5096
Compression ratio	17:1
Mean effect pressure (bar)	21,6
Mean piston speed (m/s)	9,9

COMBUSTION PARAMETERS ENGINE 60 Hz

Genset model	920ST60 - 920WT60
Intake air temp (°C)	45
Intake air vacuum (mbar)	30/60
Intake volume flow (m^3/h)	4100
Air temp before cooler (°C)	228
Air temp after cooler (°C)	50
Exhaust gas temp (°C)	440
Exhaust gas vol flow (m^3/h)	9200
Exhaust gas mas flow (kg/h)	4900
Exhaust back pressure (mbar)	20/80

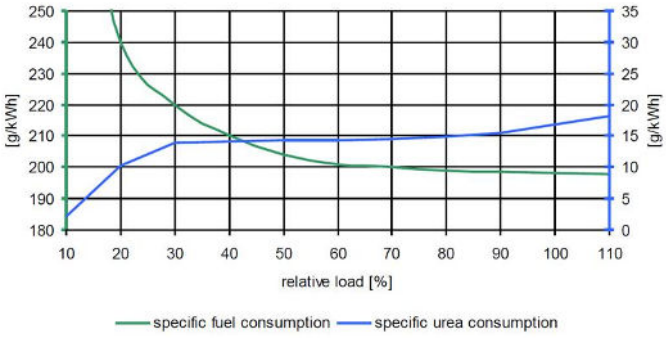
ENGINE ELECTRICAL SYSTEM

Battery recommended:	2x12 V /145 Ah / 800 CCA
Electrical Starter Motor:	24 V/7,0 kW
Engine Alternator:	Three phase 28 V/120 A

ALTERNATOR GENERAL CHARACTERISTICS

Brand:	Leroy Somer
Model type:	LSAM
Insulation Class:	H
Frequency:	60 Hz
Standard protection:	IP44
Voltage regulation:	+/- 0,5 %

FUEL AND UREA CONSUMPTIONS vs. LOAD



**Regarding Diesel fuel density of 850 kg/m^3.*

ADVANCED DIGITAL CONTROL PANEL

- Marine certified hardware
- Resilience to marine environment
- Genset controller for stand-by and prime-power
- All-in-one intuitive & powerful PC tool for configuration/ monitoring/control, locally or remotely
- Easy to install, configure and use

KEY FUNCTIONS AND PROTECTIONS

- Stand-by and prime-power application in one unit
- TFT 5" LCD Panel (800 x 400 px)
- Possibility of screens customization (Screen Editor)
- Inbuild RS485
- Ethernet Port 10/100 Mbit RJ45
- Plug and Play Operation
- 5 Configurable user buttons under the screen
- Trends monitoring screen (up to 4 channels)
- Communication with Controler via Ethernet
- User setpoints and protections
- Multilanguage
- One analog input, one binary output
- Compatible with InteliGen 1000 Marine and InteliMains 1010 Marine controllers

POWER SUPPLY & OPERATING CONDITIONS

- Power supply range: 8-36 V D.C
- Power consumption: 6 W
- Front Panel protection: IP 65
- Vibration:5-25 Hz, +/- 1,6 mm. 25-100 Hz a = 4g
- Operating temperature: -20 to + 70°C
- Operative humidity: 95 % non-condensing [EN 60068-2-30]
- Dash board foot-print: 187 x 132 mm.

ACCESSORIES

Soundshield enclosure

- Ease of handling
- Ease of installation
- Soundproofed less than 70dB
- Complete disassembly

Siphon break

- Siphon break is mandatory on Gensets installed below the vessel waterline. This device prevents direct siphoning of seawater into the engine via exhaust line.
- To this, provision is made at the bottom of the genset to fit inlet and outlet hoses lines.

Output power protection

- A heavy duty circuit breaker [C.E & U.L approved], protects the generator against extreme and adverse external overloads.

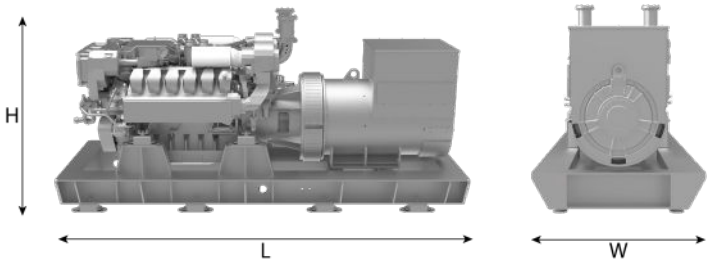
Fuel prefilter

- Fuel pre-filter and/or fuel-water separators are highly recommended in view to avoid consequences of depleted or not complying fuel.
- Depending of requirements and needs, do not hesitate to consult the Nanni Catalog of Accessories to find the best suited prefilter or water-fuel separator.

Raw water system

- A sturdy sea water filter prevents debris from entering the cooling system and to cause damage to your Genset cooling system.
- Do not hesitate to consult the Nanni Catalog of Accessories to find the best suited raw water system to ensure long life trouble free to your equipment.

SOUNDSHIELD AND STANDALONE DIMENSIONS



920WT60	
Lenght (L), mm	4000
Height (H), mm	1500
Width (W), mm	1750
Dry Weight, kg	6600

920ST60	
Lenght (L), mm	5000
Height (H), mm	1860
Width (W), mm	1750
Dry Weight, kg	8254

GENSET CONNECTIONS

Raw water inlet line Int diam mm [in]:	80 [3,15"]
Min Fuel line Int diam mm [in]:	20 [0,78"]
Exhaust connexion mm [in]:	2x100 [2x3,93"]
Fuel std eletric pump max suction lift m [in]:	2,4 [94,5"]

NOTE 1: Dimensions are shown in mm & [in.].

NOTE 2: This drawing is for reference only. Please do not use as installation planning. Refer to your nearest NANNI local distributor for more detailed information.

AUTHORIZED DEALER

DGBXXC011407

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