

NORTH
STAR

ستار
الشمالي

REEFER GENERATORS



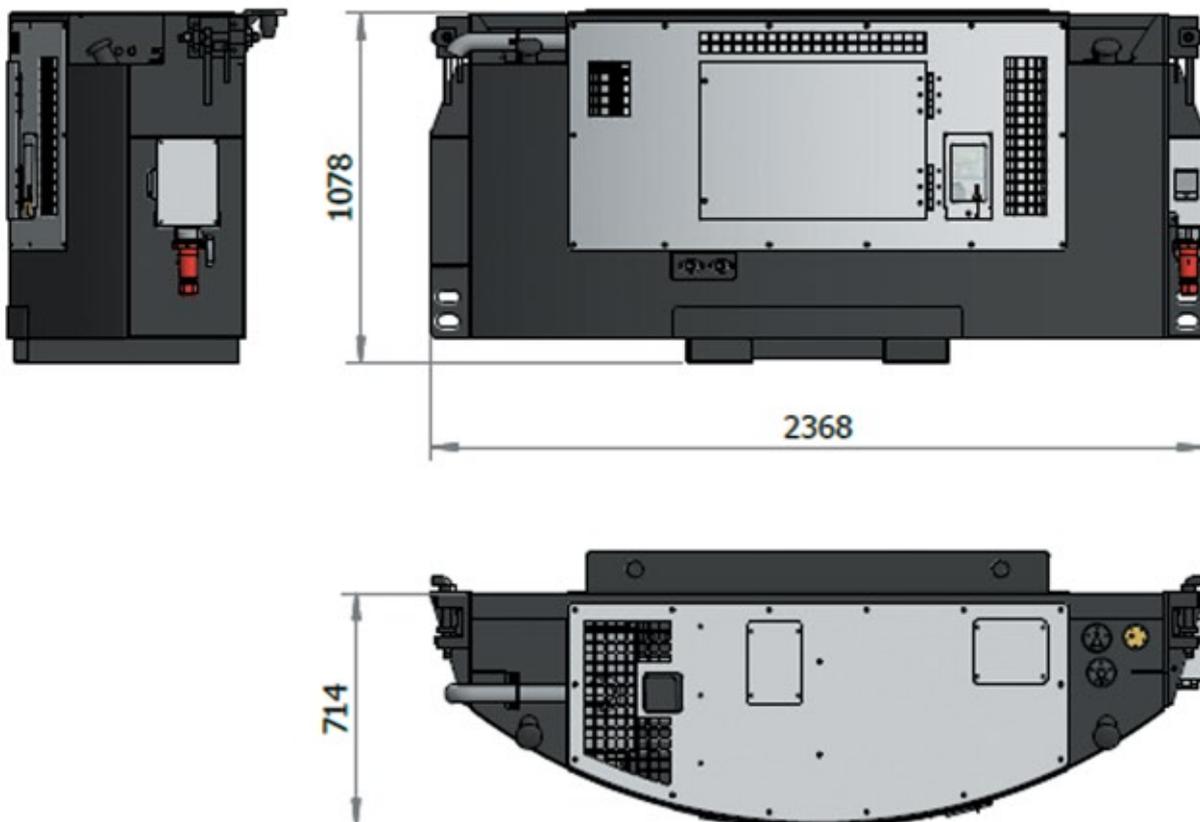
مولدات الحاويات المبردة

CLIP-ON GENERATORS for REEFER AND TRANSPORT



Model 20ESX

The "Clip On" Generator Set is designed to clip on to the front frame of a refrigerated container. The water cooled diesel generator can provide continuous (single voltage) electrical power to intermodal refrigerated containers. This unit is self contained with an integral fuel tank combined with engine, generator, battery and all operating controls.





CLIP-ON 20ESX

CLIP-ON GENERATORS SPECIFICATIONS

Rated Power	15Kw/18.75Kva
Frequency (Hz)	60
Voltage	460V
Noice level for silent type (dB)	74@1M
Amps (A)	27
ENGINE	Water-cooled, 4-stroke
Model	404D-22G
12 hours rated power (KW)	21.3
Cylinders	4
Bore x Stroke (mm)	84 x 100
Intake method	Natural Intake
Displacement (L)	2.2
Fuel Consumption (L/h)	3.5
Cooling starting method	Electric start
Engine manufacturer	PERKINS
ALTERNATOR	DINGOL
Rated Power (KW/KVA)	18/22.5
Rated Current (A)	32
Power Factor	0.8 lagging
Phase/Rotary speed	3-phase, 1800rpm
Excitation	Brushless, Self exciting
Voltage Regulation	Automatic
Net weight (silent type) (Kg)	1100
Packing size(silent type)LxWxH(mm)	2368*729*1073
Fuel tank capacity (L)	390

UNDERSLUNG GENERATORS for REEFER AND TRANSPORT

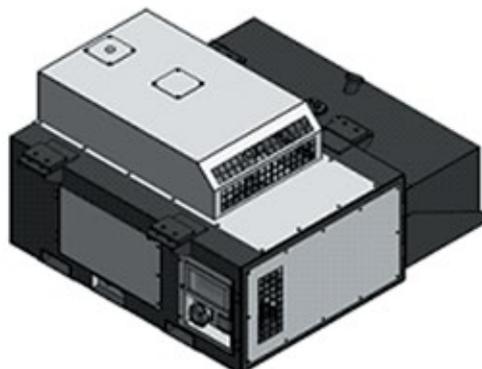
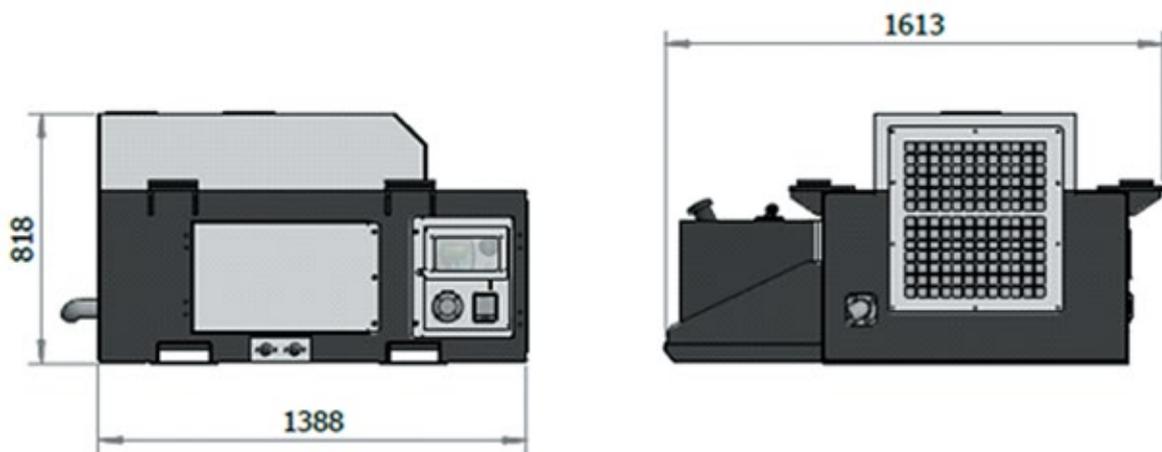


Model 20UDM

The “underslung” generator set is designed to mount under the chassis trailer frame. The water cooled diesel generator can provide continuous (dual voltage) electrical power to intermodal refrigerated containers.

The unit is self contained with an integral 180 liter fuel tank combined with the engine, generator, battery and all operating controls.

This unit is designed for quick fitting to nearly all standard ISO chassis trailers.





UNDERSLUNG 20UDM

UNDERSLUNG GENERATORS SPECIFICATIONS

Rated Power	15Kw/18.75Kva
Frequency (Hz)	60
Voltage	460V
Noise level for silent type (dB)	74@1M
Amps (A)	27
ENGINE	Water-cooled, 4-stroke
Model	404D-22G
12 hours rated power (KW)	21.3
Cylinders	4
Bore x Stroke (mm)	84 x 100
Intake method	Natural Intake
Displacement (L)	2.2
Fuel Consumption (L/h)	3.5
Cooling starting method	Electric start
Engine manufacturer	PERKINS
ALTERNATOR	DINGOL
Rated Power (KW/KVA)	18/22.5
Rated Current (A)	32
Power Factor	0.8 lagging
Phase/Rotary speed	3-phase, 1800rpm
Excitation	Brushless, Self exciting
Voltage Regulation	Automatic
Net weight (silent type) (Kg)	680
Packing size(silent type)LxWxH(mm)	1390*1613*828
Fuel tank capacity (L)	180

Engine



EU Stage IIIA/U.S. EPA Tier 4 interim

404D-22G

Bore	84.0 mm
Stroke	100.0 mm
Displacement	2.2 litres
Aspiration	Naturally aspirated
Rotation (from flywheel end)	Anti-clockwise
Number of cylinders	4 inline
Cycle	4 stroke
Compression ratio	23.3:1
Combustion system	Indirect injection
Cooling system	Liquid
Total coolant capacity	7.0 litres
Total lubricating capacity	10.6 litres
L*W*H	946*497*840 MM
Dry weight	242.0 kg
Mechanical output	18-34 kWm
Electrical output	20-36 kVA (16-29 kWe)
Rated speed	1500/1800/3000 rpm

FEATURES AND BENEFITS

A lifetime of low cost

The 400 Series offers highly competitive performance and fuel economy. Through appropriate use of technology, these engines have been designed to be reliable and to offer low cost of ownership in the wide variety of markets they serve. Across an extensive power band, the 400 series range offers you the ability to configure a solution to your specific machine, territory and market requirements.

Overlapping power bands between models and an extensive range of options gives the opportunity to optimise performance and functionality, adding customer value to the application.

We provide one year warranties for constant speed engines and two year warranties for variable speed models as standard.

As a 400 series end user, you also benefit from Perkins world class product support and service coverage that comes from being a full range power solutions provider.

Compact design

The compact design of these engines makes them suitable for a range of applications, including skid steer loaders, mini excavators, wheel loaders, welders, lift platforms, lighting towers, small tractors, air compressors, turf care machinery and materials handling machinery.

Each of the six core engines in the 400 series is configured for either stage IIIA/Tier 4 Interim or Stage IIIB/Tier 4 Final emission standards, giving you flexibility depending on your market.

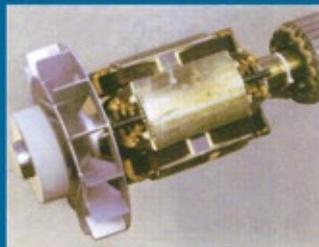
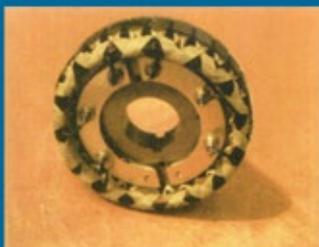
Performance and refinement

The 400 series lineup gives you a seamless power range of 8.2-50 kW (11-67 hp) in 2,3 and 4 cylinder models designed with a family look and feel. The range offers a wide variety of ratings and configurations that can be tailored to meet the most exacting needs. The selective use of indirect and direct injection fuel systems enables Perkins to offer world class engine refinement and low noise levels.

Alternator RF 180-4F



DINGOL
power generation





The reefer container genset is a diesel generating equipment that supplies three phase power for the refrigerating system in a reefer container.

The reefer container gensets provide electric power for air condition compressor and cargos to keep low temperature in long distance sea or land transportation.

WE GIVE WHAT YOU CARE THE MOST

01

LONG TIME FUEL SUPPLY

With super large fuel tank, can offer at least 80 hours operation. It means your fresh foods and drinks etc. will enjoy over 600km transportation journey without stop.

02

SMART DIGITAL TEMPERATURE CONTROL SYSTEM

There is a temperature monitor for inner part of container, generator will start or stop automatically when temperature reaches setting value. Most economic running way, maximize your interests.

03

SAFETY AND CONVENIENCE

Mounting Clip for clip on type and header pin for underslung time both made of high strength steel. Configure one step attach, connecting and disconnecting in minutes. Waterproof design control system and IP65 power output socket, operation under any weather condition.

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Pin & Clamp Mount