

г.Москва, ул.Малышева д.11 корп.3

Тел.: (495)785-95-95, www.promholod.com

300
Diesel

Lumikko

BROCHURE 2107
09/02

AN EFFICIENT REFRIGERATION UNIT FOR LOW, MEDIUM AND WARM TEMPERATURE APPLICATIONS FOR TRAILERS AND SEMI-TRAILERS

**DIESEL- AND ELECTRIC DRIVEN
SLIMLINE REFRIGERATION UNIT**

Lumikko 300D for large-scale transportations.

Lumikko 300D has been developed especially for trailers and semi-trailers as well as for bi-temperature transports. Its slim shape makes it suitable between the truck and trailer even when normal-length shaft is used.

The depth of the unit, 465 mm, makes possible to use a full-length body. Thanks to the external evaporator element, the whole volume of the body can be freely utilized.

Hot-zinc steel pipe construction, external material is HDPE plastic.

The control panel is located in the lower part of the unit, so the adjustment can easily be done from the ground.

Planned for the Harsh climate, Lumikko 300D also has sufficient heating capacity in winter conditions. Service is easy due to large service doors with quick-latches.

Lumikko 300D has winter use equipment as standard: 230V block heater and cable. Environmentally responsive refrigerant R404A used.

Spare parts are easily accessible



LUMIKKO 300D ALSO BE USED IN BI-TEMPERATURE BOXES

Lumikko 300D is suitable for transports where one part of the body is for frozen and other part of the body for cooling/heating products.

Lumikko 300D makes cold or heat for front or rear part as ever needed.



TECHNICAL SPECIFICATION: LUMIKKO 300D

FRAME AND COVERING

Chassis: Hot-zincd steel pipe
 Exterior: HDPE plastic
 Antivibration: Compressor, electric motor and diesel engine are mounted to a separate frame, which is isolated from the main frame by rubber-steel isolators

COMPRESSOR

Compressor: Bock V-4, designed for transport vehicles
 Number of cylinders: Four (4)
 Lubrication: Pressure oiling with oil pump

ELECTRIC MOTOR

By diesel operation the motor works as a generator producing 400 V electricity.

Electric motor: Three-phase motor
 Power: 11 kW, 400 V
 Transmission: V-belts

DIESEL ENGINE

Diesel engine: 4-cyl. Kubota V1505
 Power: 25 kW / 3000 r/min, ISO 3046-I
 Revolutions: 2500 rpm
 Transmission: V-belts
 Fuel tank: 180 l separate tank

EVAPORATOR AND CONDENSER

Fins: Aluminium
 Tubes: Copper
 Connections: Connected to the compressor by flexible steel-welded pipe
 Heaters: Built-in to the coil, exchangeable

REFRIGERATION

Diesel engine or electric standby, both automatically controlled by a thermostat. Refrigerant R 404A.
 Refrigeration capacities: Outside temperature +30°C

Inside the body: °C	Capacity: kW	Max. volume: m ³
+0	13,4	>105
-20	7,1	>105

HEATING

The heat is distributed all over the body by an efficient fan. During electric stand-by operation only the built-in heaters are used. On diesel-drive the electric motor functions as a generator, producing power to the heaters 4,5kW. Additionally the diesel engine coolant is circulated in a separate coil in the evaporator to give another 6 kW, totally 10,5 kW.

DEFROST

Automatically controlled by a pressure difference switch or manual initiation. During defrosting the fan is at standstill, to achieve the most efficient and short defrosting period.

SAFETY AND CONTROL DEVICES

- Oil pressure cut-out / stop of motor
- High coolant temperature cut-out / stop of motor
- Coolant level cut-out, expansion tank / stop of motor
- Automatic fuses 12 V / 400 V
- Compressor HP / LP cut-out
- Overheat cut-out
- Thermal relay

OPERATION CONTROL

- The unit is controlled by a thermostat, which automatically selects heating or cooling.
- Thermostat and display of body temperature in control panel

- Running hourmeter
- Glow start - switch
- Diesel mains - switch
- Idling
- Automatic defrost / manual operation

STANDARD EQUIPMENT

- Block heater of diesel engine: 250W / 220V
- Battery
- Fuel tank 180l
- Extension cable to mains, 15 m 3 - phase
- Cable to motor heater, 15 m
- BI-temperature ready
- Automatic rotation reverser
- Fuel filter and pump

OPTIONS

- Rear part freezing or cooling unit
- Rear part extra heating from the liquid of diesel motor
- Block heater 230 V / 24 V
- Fuel heater 12 V
- Cable box
- Start / Stop automatic
- Extra charger 24/65A

WARRANTY

12 months guarantee, covering original spare parts and the service work during normal working hours, of an authorized service.

