New

Technical Data
“G-2000/G-2001”

GHT
GEOTHERMAL TECHNOLOGIES

“G-2000 /G-2001”

Is a geothermal energy generator, which heats the intake air in winter and cools it in summer and it is especially used as frost protection component of a ventilation unit. The brine in a brine-driven geothermal heat collector absorbs the soil’s temperature and converts it to the intake air inside the heat exchanger of the unit.

The unit as a whole (heat exchanger with “A” class circulation pumps and safety unit in an insulated EPP housing) is activated by the temperature controlled switch of the brine pump. G4 filter is integrated into the unit, front and top door ensures easy access and maintenance.

Unit is designed o be used as LEFT and RIGHT versions, that can be achieved by changing position of the filter. By changing versions of the unit and direction of the airflow there are minor heating and cooling changes possible.

SIA “GHT”
Albatrosu 26 - 37, Rīga, LV-1030, Latvija Tel: +371 29116116
www.ght.lv info@ght.lv

Technical Data
"G-2000/G-2001"

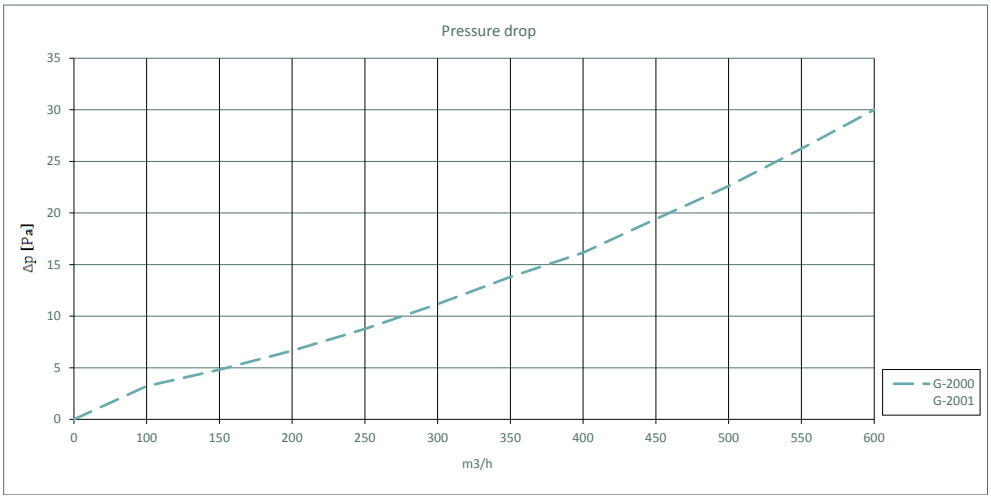
GHT
GEOTHERMAL TECHNOLOGIES

	G-2000	G-2001
Weight	15 kg	8 kg
Housing dimensions (L x W x H)	590 x390 x 720 mm	590 x390 x 530 mm
Inlet and Outlet air duct connection	DN 250	
Operating range outdoor temperature	-12 °C up to 60 °C	
Heating capacity	2.6kW	
Cooling capacity	2.9kW	
Energy consumption (depending on circulation pump)	30 W	
COP (heating /cooling)	86/96	
Pressure drop	11 Pa at 300m³/h	
Optimum brine pressure	1,5 bar	
Brine Flow	540 l/h	
Brine temperature (winter/summer)	+6 °C / +12 °C	
Brine mixture	ethylene glycol-water mixture	
Brine connection ¾ inch external thread	¾ inch external thread	
Condensate drain connection	D40 external thread	

Recommendation for geothermal heat collector

Collector pipe	32/26.2 PE (or PE-RC)
Pipe length (depending on soil type)	up to 300 m
Capacity per 10 m	5,5l

Units	Values	in / out glycol +6/+2°C (heating) Outside temp. -22 °C			in/ out glycol +12/+16°C (cooling) Outside temp. +30 °C		
	Air flow	Outlet air temp	output	fluid flow	Outlet air temp	output	fluid flow
	m³/h	°C	kW	l/s	°C	kW	l/s
G-2000/G-2001	300	0	2.6	0.15	17	2.9	0.15



SIA "GHT"
Albatrosu 26 - 37, Rīga, LV-1030, Latvija Tel: +371 29116116
www.ght.lv info@ght.lv