

GROUND-SOURCE HEAT PUMP MODULE

Aurora 50 is the ground-source unit of the Aurora Block modular climate control system, delivering stable and highly efficient heating wherever borehole energy is available. It is particularly well suited to longer temporary installations, and it monitors borehole capacity automatically to keep operation within design limits without overloading the ground loop.

KEY FEATURES

- ▶ Output capacity 20–51 kW, maximum COP up to 4.5 (B0/W35)
- ▶ Automatic borehole capacity monitoring prevents ground loop overload
- ▶ Stainless steel piping and frame structure throughout
- ▶ Self-venting high-efficiency circulation pump
- ▶ Fluid heating and cooling from -12°C to $+60^{\circ}\text{C}$



SPINE INTEGRATION



SPINE Real-time remote monitoring and control

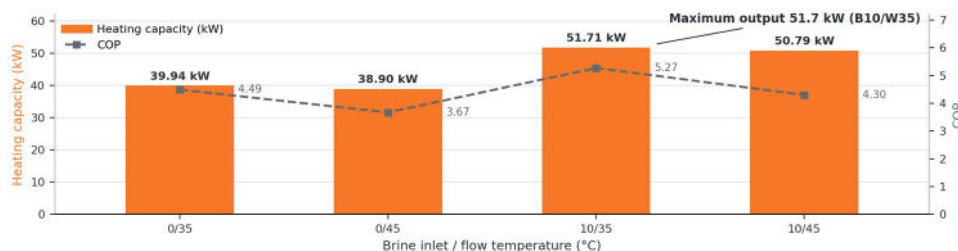
Device control and adjustment via the Spine platform

Compatible with Spine heating control devices

AURORA BLOCK SYSTEM INTEGRATION

- ▶ Heating distributed through water-circulating fan units or directly to a hydronic heating circuit — all Aurora Block units interconnect using 2" flange couplings
- ▶ Connected modules form a centrally managed energy grid, controlled and adjusted through the Spine platform — fully compatible with Spine heating control devices
- ▶ Emission-free ground-source operation; combines with Aurora 64 for peak load and redundancy in extreme conditions

HEATING PERFORMANCE



Heating capacity and COP according to EN 14511 · output range 20–51 kW

TECHNICAL INFORMATION

SKU	1050601004
Technology	Ground-source heat pump
Output capacity	20–51 kW
Maximum COP	up to 4.5 (B0/W35)
Fluid temperature	-12°C ... $+60^{\circ}\text{C}$
Structure	Stainless steel piping and frame
Weight	495 kg

Electrical supply	3×32 A / 400 V three-phase
Max power input	19.5 kW
Connection	2" flange
Distribution	Fan units · hydronic circuit
Control	Spine platform
Spine license	5 years included