

## Siberian HP

## **Roof top Heat Pump unit for electrical buses**

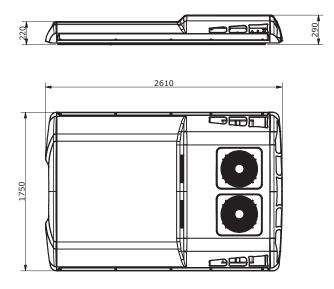
As completion of the Siberian product platform, MCC developed a highly efficient and reliable electrical Heatpump variant. The Siberian HP as self-contained HVAC unit with scroll compressor technology including glycol battery cooling and PTC heating option will suit

best to moderate and cold climate conditions. High part similarity with conventional and heat pump variant, same interface to the bus roof and optimal accessibility to service parts perfectly meet bus producer and bus operator expectations.



## Features Benefits

Many common parts with a conventional and electrical unit	Fewer part numbers reduced the spare part variety
Slim design (max height 290mm)	Modern appearance reduced total bus height
Integrated scroll compressors 750VDC / condensing section designed for optimal airflow / high flexible control logic	Allows high efficient, silent operation and best performance in high ambient conditions. No additional inverter needed
Access to the air filter, filter dryer, TXV from return air opening.  Access of other internal parts through the hinged one-piece cover	Best serviceability. Saves time for seasonal maintenance or another service
Brushless evaporator blowers, 380mm fans	High reliability and efficiency, up to 40.000 hours life cycle
Compact design, aluminum heat exchangers	Low weight, environmentally friendly
One roof interface for all-electric and heat pump variant, different roof adaptors	<ul> <li>No change of fixation points or roof structure needed, fits for roof curvatures from flat to 6m</li> </ul>
Options: PTC heater (10/15kW), integrated battery cooler, 20 or 40% FA, central air variant, different MCC controllers from basic to high end	Multiple options, high flexibility
Heating (glycol), battery cooler (glycol), front box connection flexible left or right	Easy to apply to any bus model & variant



## **Technical Data**

Cooling capacity MAX [1]	22 kW
Cooling capacity ARI [2]	16 kW
Heating capacity [3]	15 kW
Heating capacity electric* (750VDC)	10 / 15 kW
Length x Width x Height	2610 mm x 1750 mm x 220/290 mm
Weight	180 kg
Air flow (Max)	4400 m³/h
Current draw Max (24VDC)	64 A
Current draw Nom (24VDC)	42 A
Current draw compressor Max (750VDC)	18 A
Current draw heating (750VDC)	13 / 20 A
Refrigerant	R134a

- \* Optional
- [1] Maximum cooling condition (MAX) ti 40 °C/ ta 35 °C/ 50% [2] Nominal cooling condition (ARI) ti 27 °C/ ta 35°C/ 50% [3] Heating condition ti 20 °C/ ta 10°C

