



ROOFTOP UNITS

# Breeze

A new wave of HVAC



SYSTEMS AVAILABLE  
WITH  
**R134a / R513A**  
SYSTEMS AVAILABLE



## ROOFTOP UNITS

# Breeze



### SERIAL PERFORMANCE

- > Up to 46 kW for cooling
- > Weight from 91 kg
- > Adaptability to all roof radii
- > Refrigerant charge from 1,9 kg R134a
- > Compatible with R513A
- > Modular system
- > Short delivery time
- > New design
- > Mechanical fixing to roof top
- > Free cooling adjustable 0-100%
- > Light and resistant materials
- > 480 h Salt spray chamber (ISO 9227-NSS)

### OPTIONAL

- > Air extraction
- > Water heating coils
- > G4 particle filter
- > eCo3 Air Purifier
- > Fans and blowers with diagnostic
- > CO<sub>2</sub> Sensor

## BREEZE HVAC RANGE FOR FUEL AND CNG BUSES

	Breeze 100	Breeze 200	Breeze 300
Layout unit	<b>Narrow (N) Width (W)</b>		
Listed cooling capacity (kW) <sup>1</sup>	28 / 32 / 34	38 / 41 / 44	46
Rated cooling capacity (kW) <sup>2</sup>	18 / 21 / 23	25 / 27 / 30	34
Heating capacity (kW) <sup>3</sup>	35	49	36
Evaporator air capacity (m <sup>3</sup> /h) <sup>4</sup>	5160	7740	10320
Fresh air intake range (%)	0-100	0-100	0-100
Current draw (A) <sup>5</sup>	64	96	128
Dimensions W <sup>6</sup> x L x H (mm)	2000x1950x215	2000x2550x215	2000x2550x215
Average filling volume R134a (kg) <sup>7</sup>	1,9	2,2	2,4
Weight (kg)	91-97	128-135	134-142
Compressors options	TM 31 / 470 / HC 550	470 / HC 550 / HC 660	HC 660 / 775
Starting Operation limit °C	55	55	55
Performance limit °C	66	66	66

1. Conditions 40°C/40° C/95% 2. Conditions 35° C/ 27° C/19°C 3. Conditions -20° C/ +80° C 16,7 l/min 4. Free blow with brushless motors 5. Current consumption for unit only 27 VDC free blow brushless motors 6. Width varie according to the radii of vehicles roof between 2000-2020 7. All Sitemas available with R513A

## BREEZE HVAC RANGE FOR ELECTRICAL BUSES

	Breeze 100e	Breeze 200e
Layout unit	<b>Narrow (N)</b>	
Compressor operating range (Hz)	25-70 / 15-60	15-60
Listed cooling capacity (kW) @70Hz <sup>1</sup>	22 / 27	34
Heating capacity (kW) <sup>2</sup>	35	49
Compressor integrated / variable speed	<b>380 4P / 315 2P</b>	<b>380 2P</b>
Evaporator air capacity (m <sup>3</sup> /h) <sup>3</sup>	5160	7740
Fresh air intake range (%)	0-100	0-100
Integrated compressor power	3PH 380V - 420V AC 50Hz	3PH 380V - 420V AC 50Hz
Dimensions W <sup>4</sup> x L x H (mm)	2000x2450x370	2000x3000x370
Average filling volume R134a (kg)	1,9	2,2
Weight (kg)	162 / 164	210

## BREEZE HVAC RANGE WITH HEAT PUMP FOR ELECTRICAL BUSES

	Breeze 100e HP	Breeze 200e HP
Layout unit	<b>Narrow (N)</b>	
Compressor operating range (Hz)	25-70 / 15-60	15-60
Listed cooling capacity (kW) @70Hz <sup>1</sup>	22 / 27	34
Water coil heating capacity (kW) <sup>2</sup>	35	49
Compressor integrated / variable speed	<b>380 4P / 315 2P</b>	<b>380 2P</b>
Evaporator air capacity (m <sup>3</sup> /h) <sup>3</sup>	5160	7740
Fresh air intake range (%)	0-100	0-100
Integrated compressor power	3PH 380V - 420V AC 50Hz	3PH 380V - 420V AC 50Hz
Dimensions W <sup>4</sup> x L x H (mm)	2000x2450x370	2000x3000x370
Weight (kg)	167 / 169	215

1. Conditions 40°C/40° C/95% 2. Conditions -20° C/ +80° C 16,7 l/min 3. Free blow with brushless motors 4. Width varie according to the radii of vehicles roof between 2000-2020

Estimate system capacity with heat pump. System under development.

# TECHNICAL SHEET Rooftop units **Breeze**



TEMPERATURE STARTING  
OPERATION LIMIT



TEMPERATURE  
PERFORMANCE LIMIT

