

# CO<sub>2</sub>LITE

OPTIMUM CHOICE FOR THE THERMAL MANAGEMENT SYSTEMS IN ELECTRIC BUSES AND RAILWAYS

## CO<sub>2</sub>LITE

COMPACT AND LIGHT-WEIGHT RECIPROCATING COMPRESSOR FOR TRANSCRITICAL CO<sub>2</sub> APPLICATIONS



RECIPROCATING  
COMPRESSORS



CO<sub>2</sub>



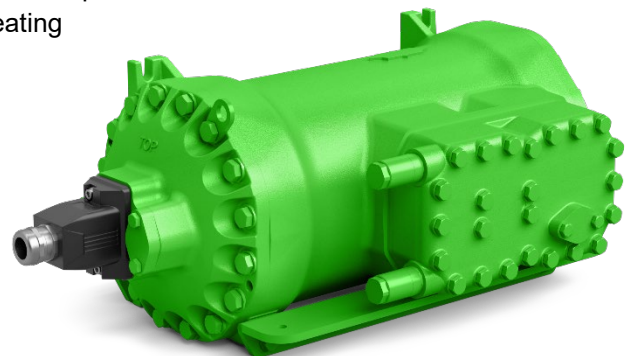
BUS



RAILWAY

### FEATURES AND HIGHLIGHTS

- // Outstanding performance in cooling and heating combined with exceptionally high efficiency
- // Very compact compressor with low overall dimensions and a height of just 257 mm
- // Weight savings directly result in increased range of electric vehicles
- // Generous applications limits for a wide range of ambient temperatures
- // High capacity with 32 kW for cooling and 25 kW for heating



### TECHNICAL DETAILS

	3MTH-7Z-40S
Displacement (50 Hz)	6,64 m <sup>3</sup> /h
Frequency range	25 .. 70 Hz
Weight	78 kg
Max. pressure (LP/HP)	90 / 140 bar
Oil type	BSG68K (standard)   BSE85K (option)
Motor voltage	400 V -3-50 Hz
Max. operating current	20 A
Inclination levels	α 22,5° / β 22,5°

# CO<sub>2</sub>LITE

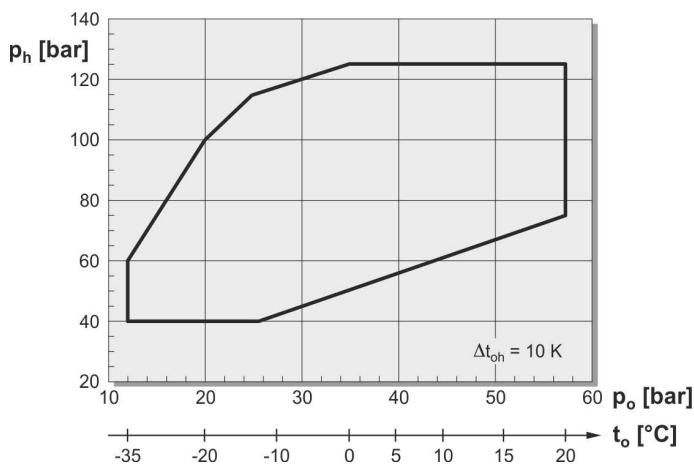
OPTIMUM CHOICE FOR THE THERMAL MANAGEMENT SYSTEMS IN ELECTRIC BUSES AND RAILWAYS

## PERFORMANCE DATA (tentative data)

Cooling capacity: **32 kW** @  $t_0 = 5^\circ\text{C}$ ;  $t_{\text{gk,aus}} = 35^\circ\text{C}$ ;  $\Delta T_{\text{oh}} = 10 \text{ K}$

Heating capacity: **25 kW** @  $t_0 = -20^\circ\text{C}$ ;  $t_c = 25^\circ\text{C}$ ;  $\Delta T_{\text{oh}} = 10 \text{ K}$

## APPLICATION LIMITS



$t_0$  Evaporating temperature (°C)  
 $\Delta t_{\text{oh}}$  Suction superheat (K)  
 $p_o$  Suction pressure abs. (bar)  
 $p_h$  High pressure abs. (bar)

## DIMENSIONAL DRAWING

