



DAS HERZ DER FRISCHE

SMART CONTROLLER

# ELECTRONICS AND CONTROLS

FOR DOMESTIC HEAT PUMPS

CF-130-2 EN



LMC320i SMART



HEAT PUMPS



SMART CONNECT APP



BEST SOFTWARE

# LMC320i SMART CONTROLLER FOR HEAT PUMPS



LMC320i SMART is a configurable, pre-programmed heat pump controller. It is designed for domestic heat pumps, including brine/water, water/water and domestic hot water ensuring energy efficient heating and hot water supply, for optimal indoor climate. The controller is ideal for private homes and apartments.

## ENERGY EFFICIENT CONTROL

Compressor capacity control and

intelligent control algorithms ensuring optimal energy efficiency.

## MOUNTING

Designed for easy installation on a 35 mm DIN rail and can also be installed using four mounting holes in the enclosure. Upon request, the controller can be delivered without enclosure.

## » YOUR ADVANTAGES

- // Energy and cost saving through intelligent capacity control and defrost scheduling
- // 10 pre-defined applications ensuring easy installation with configurable setup to fit your unique heat pump
- // Ideal for domestic heat pumps

Technical specifications	
BITZER Electronics part no.	399000656
Size	185mm (l) * 110mm (w) * 61mm (h)
Power supply	110 - 230VAC 50-60 Hz +/-10%; typical 4 VA, max. 18 VA
Operating temperature	-20°C ~ +60°C
Storage temperature	-30°C ~ +60°C
Enclosure protection	IP20, pollution degree 2
Relative humidity	5% - 95%RH, non-condensing
Temperature inputs	11 for BITZER Electronics NTC sensors -40°C ~ +99°C; +/- 1°C accuracy
Analogue inputs	2, AI1 to AI2; 0-5V with 5 Volt supply for radiometric pressure transmitters; Rin: 25KOhm.
Digital inputs	4, not galvanically isolated; 0 – 3.3V with pull-up resistor
Analogue outputs	4, AOO to AO3; 0-10V, +/- 3%, Rin > 10KOhm; max frequency 1Hz
Relay outputs	5; RE1 to RE4: 10A 24VDC / 10A 250VAC; max 250VAC isolation between relays RE5 is a toggle relay; NO: 10A 24VDC/10A 250VAC; NC: 5A 24VDC/5A 250VAC; max isolation 400VAC between relays
RS485 ports	2 with common 12V 80mA output; 1 used for display and 1 for future use
USB ports	1 device mode only for software update and communication with a PC
Real time clock	With 1 year battery back up
Datalog	1 year capacity
12VDC output	Up to 500 mA
Connectivity	Bluetooth v. 4.2 (classic + BLE), Wi-Fi 802.11 b/g/n

## RELATED PRODUCTS

### BITZER SMART CONNECT

Monitor and operate heat pumps remotely with BITZER SMART CONNECT cloud and app solution. Available for Apple iOS, Android, Windows and MAC computers.



### TOUCH DISPLAYS

User friendly user panels with touch display and Wi-Fi functionality, specially designed for heat pump applications by our experienced interaction designers.