



TCI-230

The intelligent 5-stage control for your Air Curtain system

The TCI-230 control unit offers all the functions required for the efficient operation of your industrial Air Curtain system. Thanks to its robust design and high IP 54 protection rating, it is ideally suited for demanding environments. The perfect integration into existing systems ensures simple installation, while the high level of process reliability ensures reliable operation – day after day. Depending on the range of functions, the TCI-230 industrial controller is available in S, M, L, XL and XXL versions.

Functions		S	M	L	XL	XXL
Manual / automatic function	Manual control of the Air Curtain (without an external signal such as a door contact) or in automatic mode with external signals.	●	●	●	●	●
Repair switch	Repair switch installed on the switch cabinet, which interrupts the power supply to the Air Curtain and the components inside the switch cabinet.	●	●	●	●	●
Operating and fault signal	The BMS can pick up and process the potential-free fault/operating signals. In addition, lights on the control cabinet indicate whether the Air Curtain is in operation or in fault mode.	●*	●	●	●	●
External release reset	Enabling or blocking of the Air Curtain by means of a potential-free contact. In addition, faults can be acknowledged via a potential-free contact after they have been rectified.	✗	●	●	●	●
Summer / winter changeover	A switch on the control cabinet can be used to select between summer mode (all connected heating valves are closed) and winter mode (all connected heating valves are open).	✗	✗	●	●	●
Frost protection function	If the air intake temperature falls below 7 °C, the frost protection thermostat (optionally available) switches off the fans and opens the connected valves to prevent frost damage to the heat exchanger.	✗	✗	●	●	●
Fixed base load level	The Air Curtain runs at fan speed 1 until the desired setpoint temperature is reached. An industrial thermostat (optionally available) is required for this function.	✗	●	✗	✗	✗
Adjustable base load level	The Air Curtain runs at a desired fan speed until the desired setpoint temperature is reached. An industrial thermostat (optionally available) is required for this function.	✗	✗	●	●	●
After-run function automatic contact	Adjustable run-on time to prevent the Air Curtain from constantly switching on and off when the door is closed and opened.	✗	●	●	●	●
Integrated weekly timer	The Air Curtain is switched on and off automatically according to the selected switching times.	✗	✗	✗	●	●
Fault memory	The integrated error memory shows the last error types.	✗	✗	✗	●	●
Speed control from the BMS	0-10 V signal control of the fans via the BMS in automatic mode.	✗	✗	✗	●	●
Ethernet module (Modbus, BACnet)	Control of the air curtain by means of an Ethernet board (already integrated) via Modbus (TCP/IP) or BACnet.	✗	✗	✗	✗	●

* Indicator lights only

		TCI-230 AC			TCI-230 EC		
Power of the control cabinet		12 A	16 A	20 A	12 A	16 A	20 A
S	Inputs Connected load	230 V / 16 A	230 V / 20 A	400 V / 16 A	230 V / 16 A	230 V / 20 A	400 V / 16 A
	Outputs	230 V / 12 A	230 V / 16 A	2x 230 V / 10 A	230 V / 12 A	230 V / 16 A	2x 230 V / 10 A
	Dimensions (H x W x D in mm)	500 x 400 x 200	500 x 400 x 200	500 x 400 x 200	291 x 241 x 168	291 x 241 x 168	291 x 241 x 168
M	Inputs Connected load	230 V / 16 A	230 V / 20 A	400 V / 16 A			
	Outputs	230 V / 12 A	230 V / 16 A	2x 230 V / 10 A			
	Dimensions (H x W x D in mm)	500 x 400 x 200	500 x 400 x 200	500 x 400 x 200			
L	Inputs Connected load	230 V / 16 A	230 V / 20 A	400 V / 16 A			
	Outputs	230 V / 12 A	230 V / 16 A	2x 230 V / 10 A			
	Dimensions (H x W x D in mm)	500 x 400 x 200	500 x 400 x 200	500 x 400 x 200			
XL	Inputs Connected load	230 V / 16 A	230 V / 20 A	400 V / 16 A	230 V / 16 A	230 V / 20 A	400 V / 16 A
	Outputs	230 V / 12 A	230 V / 16 A	2x 230 V / 10 A	230 V / 12 A	230 V / 16 A	2x 230 V / 10 A
	Dimensions (H x W x D in mm)	600 x 600 x 250	600 x 600 x 250	600 x 600 x 250	400 x 300 x 200	400 x 300 x 200	400 x 300 x 200
XXL	Inputs Connected load	230 V / 16 A	230 V / 20 A	400 V / 16 A			
	Outputs	230 V / 12 A	230 V / 16 A	2x 230 V / 10 A			
	Dimensions (H x W x D in mm)	600 x 600 x 250	600 x 600 x 250	600 x 600 x 250			



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