



TSDM 5

The powerful control system for industrial Air Curtain systems

The 5-stage TSDM 5 industrial control unit offers maximum reliability and flexibility for the operation of your Air Curtain system. With IP54 protection, it is ideally suited for demanding and humid environments. Thanks to its robust design and integrated operating and fault signalling, it ensures a high level of process reliability. The TSDM 5 industrial control unit is available in S, M, L, XL and XXL versions, depending on the range of functions.

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

		TSDM 5 AC		
Power of the control cabinet		12 A	16 A	20 A
S	Inputs Connected load	400 V / 20 A	400 V / 20 A	400 V / 30 A
	Outputs	400 V / 12 A	2x 400 V / 8 A	2x 400 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
M	Inputs Connected load	400 V / 20 A	400 V / 20 A	400 V / 30 A
	Outputs	400 V / 12 A	2x 400 V / 8 A	2x 400 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
L	Inputs Connected load	400 V / 20 A	400 V / 20 A	400 V / 30 A
	Outputs	400 V / 12 A	2x 400 V / 8 A	2x 400 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
XL	Inputs Connected load	400 V / 20 A	400 V / 20 A	400 V / 30 A
	Outputs	400 V / 12 A	2x 400 V / 8 A	2x 400 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
XXL	Inputs Connected load	400 V / 20 A	400 V / 20 A	400 V / 30 A
	Outputs	400 V / 12 A	2x 400 V / 8 A	2x 400 V / 10 A
	Dimensions (H x W x D in mm)	800 x 600 x 250	800 x 600 x 250	800 x 600 x 250



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