

Electronic control system for cooling units

Beginning with the DT(F)I 9021, DTI / DTS 9031, DTI/DTS 9x41, DTS 7101 and DTS 7441/7541, ranges, all Pfannenber cooling units are equipped with the new smart standard electronics. This means that you can now take advantage not only of the extremely long air passage, but also of the new standard featuring cooling unit electronics.

Take advantage of the cooling unit electronics!

More power for your machines and systems

- optimises the cooling system for your machines

Enhanced availability for your machines and systems

- e.g. early warning of excessive temperatures and automatic monitoring

More convenience

- additional functions such as test mode and start-up time lag

More safety for man and machine

- e.g. door contact feature

Smart Standard-Controller in detail

Test mode

- conducts a function test on your cooling unit function at any time

Fault diagnosis

- fault analysis indicated by LED pilot light

Temperature limits

- adjustable, supplementary alarm for maximum temperature limit

Start-up time lag

- delays restart of cooling unit, e.g. after enclosure door opened



Pfannenber display panel

Informative LED

- differentiates between normal operation, test mode, hardware fault and application fault (e.g. shortened air supply)

Door contact feature

- deactivates the cooling unit if the enclosure door is opened

Optional extra: Pfannenber Comfort-Controller

All standard electronic functions

Multi-Master interface

- easy to wire with two wiring connectors
- common circuit for up to 20 cooling units
- effective, rapid cooling for large-size enclosures

Coming soon

Basics for integration into bus link

- existing bus system in your facility
- expansion of service functions in your system
- telemonitoring and remote diagnosis from control room
- clarification with user in order to define both the interface (e.g. RS 232) and the protocol

Optional extra: Pfannenber Multi-Controller – Make use of the extra benefits the Pfannenber Multi-Controller has to offer:

All functions available with the Standard and Comfort-Controllers

Control panel with temperature display

- simple layout with easy-to-use controls
- inside temperature and error message displayed in event of a fault

Optical interface (optional extra)

Separate temperature probe with 3 m cable

- for monitoring temperatures in potential hotspots; also possible to optimise consumer layout if necessary

Unit parameter settings

- optimises cooling efficiency for your application



Pfannenber control panel

Options using optical interface

- 24-hour analysis using PC/laptop
- telemonitoring from control room

Pfannenber Multi-Master function

Both the Comfort and Multi-Controllers each provide a Multi-Master function enabling you to synchronise control of up to 20 cooling units. Depending on which of the cooling units reaches the set point temperature first, the Multi-Master function ensures that all the other cooling units automatically cut in. The last cooling unit to reach the set point temperature ends the cooling cycle for all units.

Optical interface for Multi-Controller:

With additional software (on request) and an optical interface, you can store and/or transfer all device settings and status values. When in online mode, you can log the curve for the temperature inside the enclosure. The optical interface is attached to the display magnetically.