



RESOL heating controllers



DeltaTherm® HC mini

Controls a weather-compensated heating circuit and its afterheating demand



DeltaTherm® HC

Controls a weather-compensated heating circuit (up to 6 with EM Extension modules), the DHW loading and the afterheating demand for both



DeltaTherm® HC Plus

Can control 2 weather-compensated heating circuits (up to 7 with EM Extension modules) and their backup heating demands. Additional DHW functions such as circulation or thermal disinfection, and the efficient implementation of further heat sources are possible.



DeltaTherm® HC MAX

Controls up to 4 weather-compensated heating circuits (up to 7 with EM Extension modules), the DHW loading and the backup heating demand for both



Temperature controls class VIII









RESOL heating controllers

- Solutions for different DHW and space heating systems
- Suitable for small systems in private households up to large, multivalent heating installations
- Intuitive commissioning menu
- Room thermostats from all manufacturers can be connected
- Many accessories such as alarm modules, dataloggers and communication modules can be connected via VBus®
- Remote parameterisation via RPT software possible

- PWM outputs for the speed control of high-efficiency pumps
- RESOL VBus.net Internet portal for data visualisation and evaluation over the Internet
- Data logging and storing via SD memory card and/or datalogger
- User-friendliness and efficiency at an attractive price
- OEM versions on request

Survey of heating controllers

Customised and OEM versions available also for small-batch series







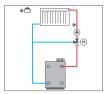


DeltaTherm®	HC mini	HC	HC Plus	HC MAX
Temperature sensor inputs	5	8 (9 ²)	10	12 (15²)
Sensor type	Pt1000	Pt1000, Pt500, KTY	Pt1000, Pt500, KTY Pt1000, Pt500, KT	
Semiconductor relays	3	4	4	13
Electromechanical relays	-	-	2	-
Potential-free relays	1	1	1	1
PWM/0-10 V outputs	2	2	4	4
Software				
Pre-configured systems	14	34	36	36
Operating modes	5	6	6	6
Mixed heating circuits	1	1 (6¹)	2 (71)	4 (7¹)
■ Weather-compensated	✓	✓	✓	✓
■ Target temperature	✓	✓	✓	✓
■ Room control	✓	✓	✓	✓
■ Room thermostats	3	5 (30¹)	10 (35¹)	20 (351)
Weather-compensated backup heating	✓	✓	✓	✓
0-10 V boiler control	✓	✓	✓	✓
Boiler protection	✓	✓	✓	✓
Start-up/Overrun	-	✓	✓	✓
Backup heating suppression	-	✓	✓	✓
Night correction	✓	✓	✓	✓
Antifreeze function	✓	✓	✓	✓
Chimney sweeper function	✓	✓	✓	✓
Screed drying function	✓	✓	✓	✓
Cooling over the heating circuit	-	-	✓	✓
Remote access with RCP12	✓	✓	✓	✓
Remote access with VBus®Touch HC	✓	✓	✓	✓
Remote display via VBus®Touch FK	-	✓	✓	✓
Thermal disinfection	-	√1	✓	✓
DHW heating	-	✓	✓	✓
Circulation	-	√ 1	✓	✓
Solid fuel boiler	-	✓	✓	✓
Heating circuit return preheating	-	√ 1	✓	✓
Return mixing function	-	-	-	✓
Heat exchange	-	√1	✓	✓
Mixer	-	√1	✓	✓
Parallel relay		√ 1	✓	✓
Error relay	-	√1	✓	✓
Error relay Function block		√1 √1	✓	✓

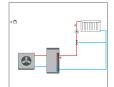
¹ via EM Extension module(s)

² via convertible impulse inputs

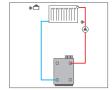
DeltaTherm® HC mini Application examples



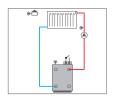
1 mixed heating circuit



1 mixed heating circuit with 1 store and heat pump (demand)

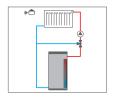


1 unmixed heating circuit

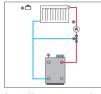


1 unmixed heating circuit with backup heating (demand)

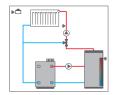
DeltaTherm® HC Application examples



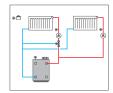
1 mixed heating circuit with external heat source



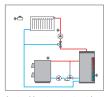
1 mixed heating circuit with backup heating (demand)



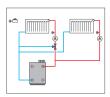
1 mixed heating circuit with backup heating (demand and boilder loading pump)



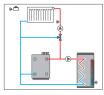
1 mixed and one unmixed heating circuit with backup heating (demand)



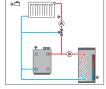
1 mixed heating circuit with solid fuel boiler



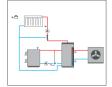
1 mixed and one unmixed heating circuit



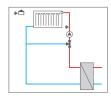
1 mixed heating circuit with DHW heating



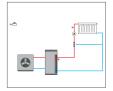
1 mixed heating circuit with DHW heating and backup heating (demand for heating circuit and DHW)



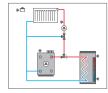
1 mixed heating circuit with solid fuel boiler and backup heating with heat pump (demand)



1 mixed heating circuit with external heat source (e.g. district heating)

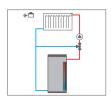


1 mixed heating circuit with 1 store and heat pump (demand)



1 mixed heating circuit with DHW heating (3-port valve)

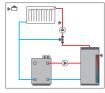
DeltaTherm® HC Plus Application examples



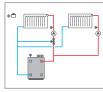
1 mixed heating circuit with external heat source



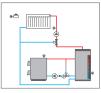
1 mixed heating circuit with backup heating (demand)



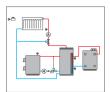
1 mixed heating circuit with backup heating (demand and boilder loading pump)



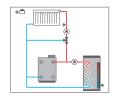
1 mixed and one unmixed heating circuit with backup heating (demand)



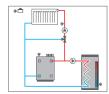
1 mixed heating circuit with solid fuel boiler



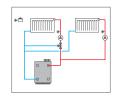
1 mixed heating circuit with solid fuel boiler and backup heating (demand)



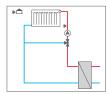
1 mixed heating circuit with DHW heating



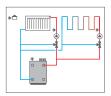
1 mixed heating circuit with DHW heating and backup heating (demand for heating circuit and DHW)



1 mixed and one unmixed heating circuit

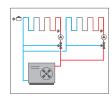


1 mixed heating circuit with external heat source (e.g. district heating)



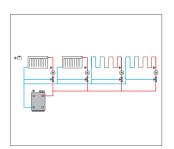
2 mixed heating circuits with backup heating (demand)

1 mixed heating circuit with

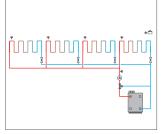


2 mixed heating circuits for heating and cooling

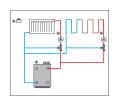
DeltaTherm® HC MAX Application examples



4 mixed heating circuits with backup heating (demand)



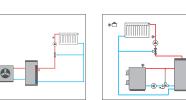
1 mixed heating circuit with 4 zones



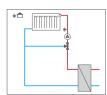
 $\begin{array}{c} 2 \text{ mixed heating circuits with} \\ \text{backup heating (demand)} \end{array}$

1 mixed heating circuit

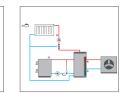
with 1 store and heat pump



1 mixed heating circuit with solid fuel boiler



1 mixed heating circuit with external heat source (e.g. district heating)



1 mixed heating circuit with solid fuel boiler and backup heating with heat pump (demand)

VBus®Touch HC

Adjust your heating via app









This easy-to-use app enables you to make adjustments on your RESOL heating controller from a mobile device.

Thus, e.g. the operating mode can be set via the app. Additionally, the system data are displayed in a clearly arranged graphic.

OEM versions with your design - contact us!

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Survey of accessories









		DeltaTherm®	HC mini	НС	HC Plus	HC MAX
	AM1 Alarm Module Preisgruppe B Artikel-Nr.: 180 008 70		√	✓	✓	✓
2 1	DL2 Plus Datalogger Price bracket A Article no.: 180 009 70	KM2 Communication Module Price bracket A Article no.: 180 012 10	✓	✓	✓	✓
\$	TS10 Dew point switch Price bracket B Article no.: 155 009 00		-	-	✓	√ **
	EM Extension Module Price bracket A Article no.: 145 440 80		-	✓	✓	✓
pesox	Price bracket A Article no.:	RCP12 Room control unit Price bracket A Article no.: 136 000 50	√ *	✓*	✓	√
.0	RTS Room control unit Price bracket A Article no.: 136 001 50	FRH (analogue) and FRHd (digital) humidity sensor Price bracket A Article no.: 136 001 50	-	-	√ /√ (FRH)	-1√
	Central outdoor sensor unit Price bracket A Article no.: 112 127 96		-	-	✓	-