

Controllers Functions / Process Controls

Application	Controllers							HiProSystems Process Controls								
	R7	C6	3216	3208	B400/B410	C440/C450	P470/P480	3504	H500	H500	H500	H700	H700	H1700	H3700	NCC
							Charge control/ Multi-zone furnaces		For Furnaces with Standard Furnaces	Elektrisch beheizte Schöpf- und Kipöfen	For Furnaces with Standard Furnaces	Electrically or gas heated crucible furnaces/MHT-basic	Customized furnaces	Customized furnaces	Customized furnaces	
Number of programs (WT=week timer)	1	1	1		5	10	50	25	20	1 + WT	10	1 + WT	20	20	20	100
Segments	1	2	8		4	20	40	500 ⁴	20	20	20	20	20	20	20	
Extra functions (e.g. fan or autom. flaps)					2	2	2-6	2-8 ⁴	3 ⁴	1	0 ⁴	1	bis 6/2 ⁴	bis 8/2 ⁴	bis 16/4 ⁴	
Maximum number of control zones	1	1	1	1	1	1	3	2 ^{1,2}	1-3 ⁴	1	0 ⁴	1	8	8	8	
Drive of manual zone regulation					●	●	●	○	○	○	○	○	○	○	○	
Charge control/Bath control							○		○	○	○	○	○	○	○	
Auto tune			●	●	●	●	●	●				○ ⁸	○	○	○	
Steps of parameter settings [steps/°C]			1/-		10/var	10/var	10/var	3/-	10(variab)/variab	15/200	15/200	15/200	15/200	15/200	15/200	
Real-time clock					●	●	●		●	●	●	●	●	●	●	
Plain, blue-white LC-display					●	●	●									
Graphic color display									4"(7")	4"(7")	7"	7"	7"	12"	22"	
Status messages in clear text				●	●	●	●	●	●	●	●	●	●	●	●	
Data input via number pad																
Data entry via touchpanel									●	●	●	●	●	●	●	
Data entry via jog dial and buttons					●	●	●									
Entering program names (i.e."Sintering")					●	●	●						●	●	●	
Keypad lock					●	●	●	●								
User levels/user administration (L/A)					L/-	L/-	L/-		○ L/A	○ L/A	○ L/A	○ L/A	○ L/A	○ L/A	○ L/A	
Skip-button for segment jump					●	●	●		●	●	●	●	●	●	●	
Program entry in steps of 1 °C or 1 min.	●		●	●	●	●	●	●	●	●	●	●	●	●	●	
Start time configurable (e.g. to use night power rates)					●	●	●	●	●	●	●	●	●	●	●	
Switch-over °C/°F	○		○	○	●	●	●	○	●	●	● ⁴	●	● ⁴	● ⁴	● ⁴	
Fehlerspeicher					●	●	●		●	●	●	●	●	●	●	
kWh meter (calculated)					●	●	●									
Operating hour counter					●	●	●		●	●	●	●	●	●	●	
Sollwertausgang				○	●	●	●	○			○	○	○	○	○	
NTLog Comfort for HiProSystems: Recording of process data on an external storage medium					●	●	●		○	○	○ ⁶		○	○	○	
NTLog Basic for Nabertherm Controller: Recording of process data with USB-flash drive					●	●	●									
Interface for VCD software					○ ⁷	○ ⁷	○ ⁷									
Interface NCC									○ ⁷	○ ⁷	●	●	●	●	●	
Plain display of furnace data									●	●	●	●	●	●	●	
Display of a flow chart at gassing function														○	○	
Actual trend display									●	●	●	●	●	●	●	
Different languages available (Number of standard languages)					23	23	23		○	○	○	○	○	○	○	
Controlled cooling							○	○	○ ⁵			○	○	○	○	
Gradient monitoring (not for safety functions)					●	●	●									
Positioning motion control													○	○	○	
Safety package EN 1539				○	○	○	○	○					○	○	○	
Safety package debinding													○ ⁴	○ ⁴	○ ⁴	
Safety package flammable gases													○ ⁴	○ ⁴	○ ⁴	

¹ = Not for melt bath control

² = Control of additional separate slave regulators possible

³ = As an extra feature in ovens with air circulation

⁴ = Depending on the design

⁵ = Cooling thermocouple only without charge thermocouple

⁶ = Availability of NTLog on request

⁷ = In preparation

⁸ = For salt bath furnaces the charge control is always activ

● Standard
○ Option