

Controllers Functions / Process Controls

Application	Controllers														HiProSystems Process Controls							
	R6	C6	3216	3208	B130	B150	B180	B400/B410	C280	C440/C450	P300	P310	P330	P470/P480	3504	H500	H500	H700	H700	H1700	H3700	
					Ceramic bisc Glaze firing	Ramp + dwell time			Ceramic bisc Glaze firing					Charge control/ Multi-zone furnaces	For Furnaces with Standard Furnaces	Elektrisch beheizte Schöpf- und Kippöfen	For Furnaces with Standard Furnaces	Electrically or gas heated crucible furnaces/VHT-basic	Customized furnaces	Customized furnaces		
Controller	Number of programs (WT=week timer)	1	1	1	2	1	1	5	9	10	9	9	9	50	25	20	1 + WT	10	1 + WT	10	10	
	Segments	1	2	8	3	2	2	4	3	20	40	40	40	40	500 ⁴	20	20	20	20	20	20	
	Extra functions (e.g. fan or autom. flaps)							2	2	2 ³	2 ³	2 ³	2	2-6	2-8 ⁴	3 ⁴		0 ⁴		bis 6/2 ⁴	bis 8/2 ⁴	
	Maximum number of control zones	1	1	1	1	1	1	1	1	1	1	1	1	3	2 ^{1,2}	1-3 ⁴	1	0 ⁴	1	8	8	
	Drive of manual zone regulation								●		●		●		●				○ ⁸			
	Charge control/Bath control														○	○	○	○	○ ⁸	○	○	
	Auto tune			●	●	●	●	●	●	●	●	●	●	●	●	●						
	Steps of parameter settings [steps/°C]			1/-		4/-	4/-	4/-	10/var	4/-	10/var	4/-	4/-	4/-	10/var	3/-	10/variabel	10/variabel	15/200	15/200	15/200	15/200
	Real-time clock					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Plain, blue-white LC-display					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Visualization and Operation	Graphic color display															4"(7")	4"(7")	7"	7"	7"	12"	
	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					●	●		●	●				●		●	●	●	●	●	●	
	Operators							●	●	●				●		○	○	○	○	○	○	
	Skip-button for segment jump					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Program entry in steps of 1 °C or 1 min.	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Switch-over °C/°F	○		○	○	●	●	●	●	●	●	●	●	●	○	○	●	●	●	●	●	●	
Miscellar	Fehlerspeicher				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	kWh meter				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Operating hour counter				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Documentat	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 MV software/VCD software				○	○	○	○ ⁷	○	○ ⁷	○	○	○	○	○ ⁷							
Additional functions	Interface NDC/NCC														○ ⁷	○ ⁷	●	●	●	●		
	Plain display of furnace data														●	●	●	●	●	●		
	Display of a flow chart																			○		
	Actual trend display															●	●			●		
	Number of standard languages							●	●	●				○	○	●	●	○	○	○	○	
	Controlled cooling							○	○	○				○	○	○ ⁵	○	○	○	○	○	
	Gradient monitoring (not for safety functions)													●						○	○	
	Positioning motion control																			○	○	
Safety	Safety package EN 1539				●	○					○									○	○	
	Safety package debinding																			○ ⁴	○ ⁴	
	Safety package flammable gases																			○ ⁴	○ ⁴	

- Standard
- Option

¹ = Not for melt bath control

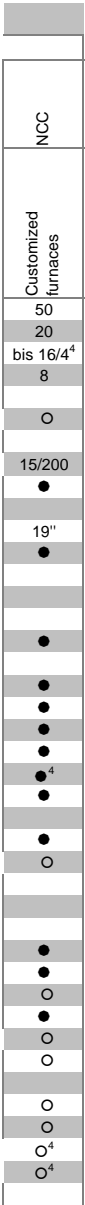
² = Control of additional separate slave regulators possible

³ = As an extra feature in ovens with air circulation

⁴ = Depending on the design

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⁵ = Cooling thermocouple only without charge thermocouple



NCC