

Assignment of Standard Controllers to Furnace Families	NRA 17/06 - NRA 1000/11	NR, NRA .. H ₂	NR, NRA .. IDB	SRA	(S/LB) VHT	(S/LB) SVHT ..H ₂	NRA 40/02 CDB	NRA 150/02 CDB	NA 30/45 - N 675/85 HA	N ..26 HA - N ..85 HA	KTR	TR	TR .. LS	SAL	SAH	W .. A	W	WB	NB	N 7/H - N 87 ..H ../HR	N 81(..) - N 641(..)	N 731 - N 2401	NB .. CL	N(B) .. BO	H	TS	QS	DH	D .. S
Catalog page	12	14	14	15	16-21	20	22	22	24	26	32	36	36	39	40	42	44	47	48	49	49	50	52	53	54	60	61	62	68
Controller																													
R7												●																	
B400									●	●	●			●	○	●			●	●	●	●					●		
B410												○																	
C440									○	○	○	○		○	○	○			○	○	○	○				○			
C450																													
P470	●			●	● ³				○	○	○	○		○	○	○	●		○	○	○	○			●				
P480									○	○	○	○		○	○	○													
3208/C6									○	○	○	○		○	○	○													
3504	○			○					○	○	○	○		○	○	○		● ³											
H500/SPS									○	○	○	○		○	○	○													
H700/SPS					● ³				○	○	○	○		○	○	○													
H1700/SPS			●	○			●		○	○	○	○		○	○	○		● ³					●	●	○	○	○	○	
H3700/SPS	○	●	○	○	○	○	○	○	○	○	○	○		○	○	○		○							○	○	○	○	
NCC	○	○	○	○	○	○	○	○	○	○	○	○		○	○	○		○							○	○	○	○	

Functionality of the Standard Controllers	R7	C6	3216	3208	B400/ B410	C440/ C450	P470/ P480	3504	H500	H700	H1700	H3700	NCC
Number of programs	1	1	1		5	10	50	25	20	1/10 ³	10	10	50
Segments	1	2	8		4	20	40	500 ³	20	20	20	20	20
Extra functions (e.g. fan or autom. flaps) maximum					2	2	2-6	2-8 ³	3 ³	○ ³	6/2 ³	8/2 ³	16/4 ³
Maximum number of control zones	1	1	1	1	1	1	3	2 ^{1,2}	1-3 ³	○ ³	8	8	8
Drive of manual zone regulation					●	●	●						
Charge control/bath control								○	○	○	○	○	○
Auto tune			●	●	●	●	●	●					
Real-time clock					●	●	●		●	●	●	●	●
Plain, blue-white LC-display					●	●	●						
Graphic color display									4" 7"	7"	7"	12"	19"
Status messages in clear text				●	●	●	●	●	●	●	●	●	●
Data entry via touchpanel									●	●	●	●	●
Data input via jog dial and buttons					●	●	●						
Entering program names (i.e. "Sintering")					●	●	●	●					●
Keypad lock					●	●	●	●	●				
User administration					●	●	●	●	○	○	○	○	●
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	○		○	○	●	●	●	○	●	● ³	● ³	● ³	● ³
kWh meter					●	●	●						
Operating hour counter					●	●	●		●	●	●	●	●
Set point output				○	●	●	●	○		○	○	○	○
NTLog Comfort for HiProSystems: Recording of process data on an external storage medium									○	○	○	○	
NTLog Basic for Nabertherm controller: recording of process data with USB-flash drive					●	●	●						
Interface for VCD software					○	○	○						
Malfunction memory					●	●	●		●	●	●	●	●

¹ Not for melt bath control
² Control of additional separate slave regulators possible
³ Depending on the design

● Standard
○ Option

Mains Voltages for Nabertherm Furnaces

1-phase: all furnaces are available for mains voltages from 110 V - 240 V at 50 or 60 Hz.
 3-phase: all furnaces are available for mains voltages from 200 V - 240 V or 380 V - 480 V, at 50 or 60 Hz.
 The connecting rates in the catalog refer to the standard furnace with 400 V (3/N/PE) respectively 230 V (1/N/PE).