

# Comparison of Technical Properties

## Programat®



Hardware Features		
Widescreen colour display	7"	4.3"
Membrane-sealed keypad & touch display operation	✓	✓
QTK 2 muffle technology with SIC bottom reflector	✓	✓
Electronic press drive with force sensor	✓	✓
Double-valve vacuum technology	✓	✓
OSD with status indicator and explanation	✓	✓
OSD with progress indicator	✓	-
Programat Infrared Technology IRT	✓	-
Programat WLAN Kit*	✓	-
Software Features		
New operating concept with modern icons	✓	✓
Language options of software	25	25
Individual press and firing programs	500/20	300/20
Individual press and firing programs on USB flash drive	500/-	300/-
Preset Ivoclar press and firing programs	✓	✓
FPF – Fully automatic press function	✓	✓
"CDS" Crack Detection System	✓	✓
"TSP" Thermo Shock Protection	✓	✓
Different operating modes	✓	✓
Predrying program (indiv. time/temp.)	✓	✓
Noise-reduced operation of vacuum pump	✓	✓
Power Saving Technologie	✓	✓
Integrated voltage indicator	✓	✓
Electronic Vacuum Control System (EVCS)	✓	✓
Program bypass in case of power failure	✓	✓
Muffle cleaning program	✓	✓
Dehumidification program	✓	✓
Modern signal tunes	✓	✓
Remote diagnostics via diagnostic file	✓	✓
Integrated test programs (e.g. heating, vacuum, etc.)	✓	✓
Software update via USB flash drive	✓	✓
Display of notes and errors with text	✓	✓
Operation and programming via notebook/PC	✓	✓
Firing protocols for QA via notebook/PC	✓	✓
IoT connectivity	✓	✓
Picture Manager via notebook/PC	✓	-
Preset timer function	✓	-
Integrated program copy assistant	✓	-
IR-operated predrying	✓	-
IR-operated recognition of the investment ring size	✓	-
IR-operated temperature measurement of the investment ring	✓	-
MP3 and video player	✓	-
Picture viewer	✓	-
DSA - Digital Shade Assistant	✓	-
Temperature Calibration		
Calibration	Automatically	Automatically
Adjustable calibration interval	✓	✓
Automatic double-range calibration ATK2	✓	✓
Design and Ergonomics		
Large cooling tray	✓	✓
Integrated tong holder	✓	✓
Removable furnace head	✓	✓
Integrated cable duct	✓	✓
Swivel keypad unit	✓	-
Connections		
USB	3	1
USB host	✓	✓
Ethernet (LAN)	✓	✓
WLAN	✓	-
SD Card Reader	✓	-
Audio connections (in/out)	✓	-
Technical Data		
200 – 240 V / 50 – 60 Hz	✓	✓
110 – 120 V / 50 – 60 Hz	✓	✓
Max. power consumption at 110 – 120 V (Ampere)	12	12
Max. power consumption at 200 – 240 V (Ampere)	8.5	8.5
Max. heating rate	140 °C/min	140 °C/min
Warranty		
Warranty period**	3 years	2 years

✓ Standard delivery form  
- not available  
\* 1 year warranty  
\*\* excluding wear parts