Dentalfarm introduce two brand new furnaces for porcelain firing: PF PRO for traditional firing techniques, PF PRESS for both firing and pressing. The new units of the PF range are suited to process all restorative porcelain materials: medium- and low-temperature traditional ceramics, feldspathic ceramics, highly vitreous ceramics, lithium disilicate, ceramic-on-metal, ceramic-on-zirconia and all-ceramic systems, as well as CAD/CAM-generated ceramics.

- High-precision temperature monitoring
- Effective control of operating times
- Accurate handling of firing conditions
- Highly adaptable working cycles

efficient quality firing
finest supervision to the smallest detail

> Pre-set charts for easier firing
> Special programs for crystallization of lithium disilicate
> Monitoring of working cycle by means of 16-bit microprocessor
> Self-diagnostic system
> Wide choice of freely programmable working parameters, even during active cycle
> Easy-to-use and accurate data system software
> Improved temperature detection through new thermocouple instrument featuring a protective sleeve for unaltered signal
> Automatic steering of vacuum pump unit
> Pneumatic injection process with digitized pressure, speed and time adjustment
PF PRESS

PORCELAIN FIRING AND PRESSING FURNACE

> 69 PROGRAMS FOR TRADITIONAL CERAMICS
> 10 PROGRAMS FOR CAD/CAM LITHIUM DISILICATE
> 20 PROGRAMS FOR PRESSING TECHNIQUES
> 01 SIMULATION CYCLE
> DRY-RUNNING 50 L/min VACUUM PUMP
> CONNECTION TO COMPRESSED AIR INSTALLATION

PF PRESS is the most complete model, suitable for all kinds of ceramic processing techniques. All stages of single working programs as well as all related parameters are listed in the menu and can be edited at the user’s convenience.

Features
A range of relevant benefits is offered, such as:
> Best accuracy in defining the drying conditions of porcelain works (the drying stage can continue even after the muffle has been totally closed)
> Possibility to programme double-temperature cycles
> Vacuum grade adjustment
> Wide variety of cooling options

The injection of the ceramic material takes place by means of a compressed air piston, operating from bottom to top. This is one of the distinguishing features of PF PRESS. Pressure and speed values are electronically adjustable and are shown on the wide, easy-to-read display in real time.
PF PRO

PORCELAIN FURNACE

> 79 PROGRAMS FOR TRADITIONAL CERAMICS
> 20 PROGRAMS FOR CAD/CAM LITHIUM DISILICATE
> 01 SIMULATION CYCLE
> DRY-RUNNING 50 L/min VACUUM PUMP

PF PRO is suitable for all traditional firing techniques. It is designed to accurately carry out both double-temperature cycles and crystallization of milled lithium disilicate generated by CAD/CAM systems. This feature has proved particularly valuable for Dental Clinics. An innovative firing chamber, consisting of high-tech refractory materials and quartz tubing, ensures perfect irradiation of treated objects.

Both electronic controls and precise sliding guides ensure smooth movement of the tray and vibration-free operation.

Porcelain firing has never been so simple
DENTALFARM PORCELAIN FURNACES
PRACTICAL, SAFE AND ACCURATE

Inside the firing chamber, a quartz filter allows to boost the effects of IR rays, thus ensuring progressive heating of the firing object and controlled evaporation of humidity.

The temperature is detected by a special, oxidation free thermocouple which does not require periodical adjustment.

The wide number of available programs, combined with an accurate execution of any single aspects of the firing cycle deliver high-quality, consistent firings and steady results.

> **HIGH-PRECISION TEMPERATURE MONITORING**: quartz muffle and innovative thermocouple system

> **EFFECTIVE CONTROL OF OPERATING TIMES**: excellent compliance with all firing requirements

> **ACCURATE HANDLING OF FIRING CONDITIONS**: vacuum grade, pressure and cooling mode options

> **HIGHLY ADAPTABLE WORKING CYCLES**: best flexibility of use

### TECHNICAL DETAILS

<table>
<thead>
<tr>
<th></th>
<th>PF PRESS</th>
<th>PF PRO</th>
<th>OVERALL DIMENSIONS LxWxH</th>
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<tbody>
<tr>
<td>390x440x490 mm</td>
<td>390x440x490 mm</td>
<td>390x440x490 mm</td>
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<tr>
<td>28 kg</td>
<td>28 kg</td>
<td>NET WEIGHT</td>
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<tr>
<td>ø 90 x 55 mm</td>
<td>ø 90 x 55 mm</td>
<td>WORKING DIMENSIONS OF FIRING CHAMBER</td>
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<tr>
<td>230 V AC</td>
<td>230 V AC</td>
<td>FEEDING TENSION</td>
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<td>1050 W</td>
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<td>1200°C</td>
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<td>2 – 200°C/1min</td>
<td>PISTON SPEED UPWARDS</td>
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<td>69</td>
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<td>NUMBER OF FREELY DEFINABLE FIRING PROGRAMS</td>
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<td>NUMBER OF FREELY DEFINABLE LITHIUM DISILICATE PROGRAMS</td>
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<td>ADJUSTABLE OPTIONS FOR EACH PROGRAM</td>
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<td>500 W</td>
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<td>VACUUM PUMP POWER</td>
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<td>750 mm Hg</td>
<td>750 mm Hg</td>
<td>MAXIMUM VACUUM GRADE (98%)</td>
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<td>50 l/min</td>
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<td>PUMP FLOW</td>
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<td>8 kg</td>
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<td>CERAMIC HONEYCOMB</td>
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<td>15</td>
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<td>CERAMIC PINS</td>
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</table>

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