

**Wittmann**

Finding the Better Way

*Superior Temperature Control:*

**TEMPRO** *plus/basic*



**Single and Dual Zone Units available**

**Precision Control**

Microprocessor controlled with  $\pm 0,5^\circ$  accuracy

**Easy-to-Use**

User-friendly simplistic display

**Included Standard Features**

"No Seals" Design on Tempro plus 160° through magnetic coupling of pump  
Automatic leak stopping and air purging  
Options can be installed in standard units

**Powerful and Economical**

Adjustable heater power from 3 - 9 kW

**Rugged, Easy-to-Maintain Design**

## The new superior serie TEMPRO plus with the PLUS for perfect quality:

### The PLUS in standard equipment

TEMPRO plus customers obtain a range of standard features for which the competition charges additional prices:

- microprocessor controller
- maximum temperature monitoring
- automatic heater control 3, 6, 9 kW  
the maximum heater power can be limited
- auto filling design with leakage monitoring and level control
- automatic leak stopping + air purging selectable with one single button on the display.
- boost pump, standard with TEMPRO plus 160° (optional with TEMPRO plus 140°)
- pumps safe to run dry
- automatic pump rotation direction detection
- sensor break monitoring
- measuring and displaying the temperature of the return flow (back flow sensor)
- connecting socket for external sensors (PT 100)
- dry contact for alarm output plus audible alarm
- operating hours counter, indication of service intervals
- power supply 220 - 480 V

#### Options:

- process pressure gauges with flow indication
- iron-constantan mould sensor (expansion kit)
- various communications interfaces (expansion kit)

### PLUS in quality and perfection

The magnetically coupled pump is a standard equipment in the TEMPRO plus 160°:

### PLUS for technology and design

heat insulated steel tank with heating element and cooling helix

reliable and durable solenoid valves + non-return valves and overpressure relieve valves in 140° and 160° Tempros

overheat temperature safety thermostat

maintenance-free magnetically coupled pump

electronic board with self-optimizing microprocessor (+/- 0,5 °C)

connecting socket for communications interfaces and external sensors

door interlock switch

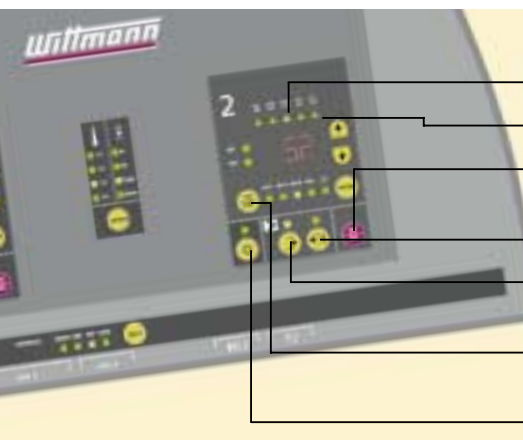
splash-proof electric cabinet



TEMPRO plus 1 160°

### PLUS in simplicity of operation

Every single operating mode can be selected with one button



LEDs - showing the operating status of the unit are clearly arranged on the display.

entry lock

activating circuit (ON/OFF)

reverse pump operation for line evacuation for mould changes

leak-stopping

external sensor

cool down function when shutting down unit

### PLUS in Service

Technical inspection and regular service is done in an incredible short time:

- No tools design for easy removal of side panels
- free access to all mechanical parts. Controller, electronic boards, heat and pump contactors are clearly arranged in the electric cabinet
- maintenance free through magnetically coupled pump.





TEMPRO plus 2 90°

### The powerful temperature controller

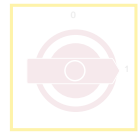
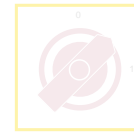
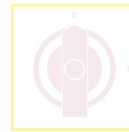
with the **PLUS** for perfect quality and design  
 - single and dual zone units  
 - circulating water

#### TEMPRO plus 90°

- for temperatures up to 90 °C  
 - open system with powerful, submersible pumps without pump seals

#### TEMPRO plus 140°/160°

- for temperatures up to 140 °C and 160 °C  
 - pressurized system with powerful pumps, in TEMPRO plus 160° with magnetically coupled pumps



## TEMPRO plus 90°/140°/160°

	TEMPRO plus 1&2 90°	TEMPRO plus 1&2 140°	TEMPRO plus 1&2 160°	TEMPRO basic 90°	TEMPRO basic 140°
heating capacity	3 - 9 kW			6 / 9 kW	6 / 9 kW
pump capacity normal	0,5 kW, max. 3,8 bar max. 60 l/min	0,5 kW, max. 5 bar max. 30 l/min	no seals 0,5 kW, max. 5 bar max. 30 l/min	0,5 kW, max. 3,8 bar max. 60 l/min	0,55 kW, max. 6 bar max. 45 l/min
pump capacity enhanced	0,75 kW, max. 5,8 bar max. 60 l/min	0,75 kW, max. 6 bar max. 60 l/min	no seals 1 kW, max. 6 bar max. 60 l/min	0,75 kW, max. 5,8 bar max. 60 l/min	
cooling water connection	G 1/4 "	TEMPRO plus 1: G 3/8 " / TEMPRO plus 2: G 3/8 "		G 1/4 "	G 1/2 "
mould connection	G 3/4 "			G 3/4 "/G 1/2 "	G 3/4 "
power supply	standard 3 x 400 V/50 Hz + MP			standard 3 x 400 V/50 Hz + MP	

## TEMPRO basic 90°/140°

### The economic solution

The ideal temperature controller for any application requiring exact temperature control and high user-friendliness, however, without additional functions such as interfaces.

#### TEMPRO basic 90°

One circuit temperature controller for temperatures up to 90 °C equipped with a self-optimizing microprocessor controller (+/- 1 °C). Indirect cooling with same helix and same submersible powerful pump as the TEMPRO plus 90°. Standard with leakstop function and hand selector switch for evacuating function.

#### TEMPRO basic 140°

Single zone unit for temperatures up to 140 °C. Pressurized system with microprocessor controller. The economic Mould Temperature Controller for precise temperature control up to 140 °C. For standard features and options please refer to table on next page.



TEMPRO basic 140 °

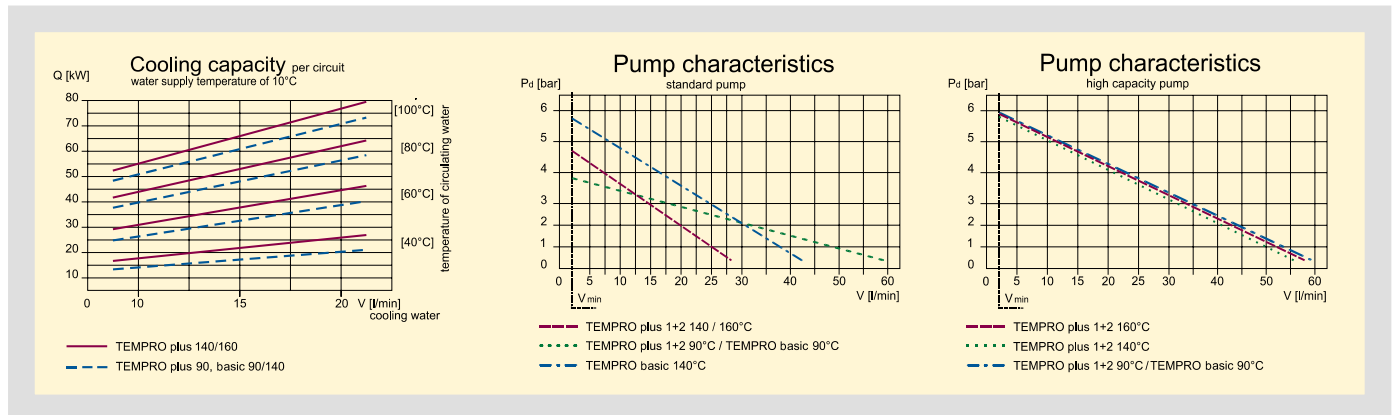


Equipment:

	TEMPRO plus			TEMPRO Basic	
	90 °C	140 °C	160 °C	90 °C	140 °C
heating capacity	3 – 9 kW	3 – 9 kW	3 – 9 kW	6 / 9 kW	6 / 9 kW
microprocessorcontroller, selfoptimizing	●	●	●	●	●
maximum temperature monitoring	●	●	●	●	●
sensor break monitoring	●	●	●	●	●
autom. filling design with leakage monitoring and level control	●	●	●	●	●
automatic pump rotation direction detection	●	●	●	—	—
dry contact for alarm output plus audible alarm	●	●	●	●	●
Connectors for external sensors (PT100)	●	●	●	○	○
leakstop function	●	●	●	●	●
air purging for mould changes	●	●	●	●	○
reinforced pump	○	○	○	○	—
manual filling	●	○	—	●	—
pressure gauge / flow indication	○	○	○	—	—
boost pump	—	○	●	—	—
serial interface (RS 232, RS 485, 20mA, EUROMAP 17)	○	○	○	—	—
operating hour counter	●	●	●	●	●
horn	●	●	●	●	●

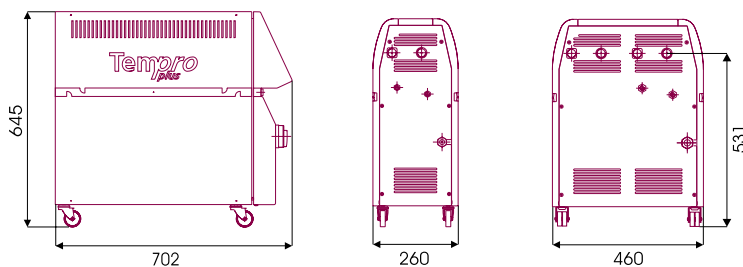
● = standard equipment    ○ = optional equipment    — = cannot be supplied for this model

Pump- and cooling capacity:

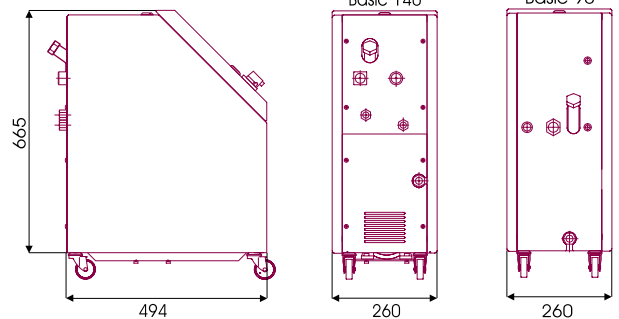


Subject to techn. modification without notice

TEMPRO plus:



TEMPRO basic:



Superior Technology

**WITTMANN**  
**KUNSTSTOFFGERÄTE GMBH**  
 A-1220 Vienna, Austria  
 Lichtblaustraße 10  
 Tel.: 0043-1 250 39-0  
 Fax: 0043-1 259 71 70  
 info@wittmann-robot.at  
 www.wittmann-robot.at

**WITTMANN UK LTD.**  
 Sanders Road, Finedon Road  
 Industrial Estate Wellingborough  
 GB-NN8 4 NL Northants  
 Tel.: 0044-19 33 27 57 77  
 Fax: 0044-19 33 27 05 90  
 info@wittmann.co.uk  
 www.wittmann.co.uk

**WITTMANN**  
**ASIA PACIFIC LTD.**  
 13F-1, No. 959, Sec. 3  
 Chinghai Road  
 Taichung City, Taiwan, R.O.C.  
 Tel.: 00886-4 24652611  
 Fax: 00886-4 24624107  
 wittman@ms34.hinet.net