Терморегуляторы Easytherm, Thermovan

Технические характеристики

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Easytherm

EMP / EMP-ID

PRESSURISED TEMPERATURE CONTROLLER

up to 140 °C

Easytherm is the new mould temperature control unit characterized by user-friendliness, flexibility and reliability, for injection and blow moulding and extrusion processes.

A new interior and exterior layout, coupled with high-end components, characterise a versatile machine that guarantees reliability and long term performances.

Precise and effective thanks to cutting edge thermal elements

Easy to use thanks to the practical controller

Robust because of the use of best in class components

PET Preforms & Bottles | Rigid Packaging | Automotive components | Technical parts | Medical solutions | Thermoforming & Technical Sheets | Flexible Film | Pipes, Profiles, Cables | Fibres & Strapping | Recycling | Compounds

Process fluid Pressurised water

Cooling mode Indirect or direct

Electrical feeding 380/3/60, 400/3/50, 380/3/60, 440/3/60, 460/3/60 (V, Ph, Hz)

Main options 2 or 4 ways manifolds, additional filters, communication interface (Current loop or Modbus RTU), process water loading line separate from the cooling circuit and pressure switch to detect water flow, sludge remover filter.

Easytherm has an ergonomic design with an integrated handlebar

The FTH (Flow Through Heater) avoids any risk of corrosion and failure of the heating elements and maximize heat transfer

Easytherm is one of the most small unit on the market: all the high flow rate models even in HT version share the same compact chassis

	Max temp (°C)	Heating power (kW)	Cooling power (kW)	Heat exchanger
EMP06	140	6	82 (ΔT = 130°C, 15 l/min)	Plate type
EMP12		12		
EMP06-ID	90	6	80 (ΔT = 70°C, 15 l/min)	Direct injection
EMP12-ID		12		

	Maximum flow rate (l/min)	Pump type	Head (m)	Load power (kW)	Reversible	Model compatibility
Pump P8	40	Mechanical sealing	60	0.75	Yes	EMP06 EMP12 EMP06-ID EMP12-ID
Pump P9	60		60	0.75	Yes	
Pump P10	60	Magnetic drive	60	1	Yes	

Easytherm

EMP / EMP ID 112-124

HIGH CAPACITY WATER TEMPERATURE CONTROLLER

up to 140 °C

The EMP100 mould temperature series uses pressurized water as a process fluid.

The ETP100 series is manufactured using components with the highest level of quality and reliability.

The machine can be configured with different heating and cooling power and with the process pump that provides the right combination of flow rate and pressure.

Suitable for a wide range of water flow rate, pressure and temperatures

Easy to use thanks to the practical controllers

Highest standards of quality and reliability

PET Preforms & Bottles | Rigid Packaging | Automotive components | Technical parts | Medical solutions | Thermoforming & Technical Sheets | Flexible Film | Pipes, Profiles, Cables | Fibres & Strapping | Recycling | Compounds

Process fluid Pressurized water

Cooling mode Indirect or direct

Electrical feeding 380/3/60, 400/3/50, 380/3/60, 460/3/60 (V, Ph, Hz)

Main options 2 or 4 ways manifolds, additional filters, communication interface (Current loop or Modbus RTU) and acoustic alarm.

Anti-corrosive kit is available to avoid any risk of galvanic corrosion with the consequent risk of damages and contaminants release

The refilling of the process water can be done from the cooling water circuit or from a dedicate line

The tubular heaters are realised with Incoloy 800 to guarantee an high corrosive resistance

	Max temperature	Heating power (kW)	Cooling power (kW)	Heat exchanger
EMP112	140°C	12	100 coil (ΔT = 110°C) 125 Plates (ΔT = 110°C)	Coil or Plate
EMP118		18		
EMP124		24		
EMP112 ID	90°C	12	170 direct (ΔT = 70°C)	Direct
EMP118 ID		18		
EMP124 ID		24		

	Maximum flow rate (l/min)	Head (m)	Load power (kW)	Reversible	Model compatibility
Pump P8	40	60	0.75	Yes	EMP 112-124
Pump P9	60	60	0.75	Yes	EMP 112-124 EMP 112-124 ID
Pump P12	100	60	1.5	Yes	
Pump P14	160	31	1.5	No	

Easytherm

ETP / ETP-HT

Precise and effective thanks to cutting edge thermal elements and advanced controller

Easy to use thanks to TFT 4,3” display, frontal status led and intuitive controls

Robust because of the use best in class components and technologies (e.g. magnetic driven pump)

PRESSURISED TEMPERATURE CONTROLLER

up to 180 °C

Easytherm is the new mould temperature control unit characterized by user-friendliness, flexibility and reliability, for injection and blow moulding and extrusion processes.

A new interior and exterior layout, redesigned ergonomic control, coupled with high-end components, characterise a versatile machine that guarantees reliability and long term performances. Easytherm operates at temperatures up to 180 °C HT. Maximum reliability is assured thanks to technologies such as magnetic driven pumps or Flow Through Heaters.

The large 4.3” TFT high contrast display is tilted to ensure easy reading. Navigation in the sub menus is managed via a convenient knob.

Easytherm is already set up for use in Industry 4.0 environments with a wide range of communication protocols, including OPC-UA platform and is Winfactory 4.0 ready.

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Process fluid Pressurised water

Cooling mode Indirect

Electrical feeding 380/3/60, 400/3/50, 380/3/60, 440/3/60, 460/3/60 (V, Ph, Hz)

Main options Flow meter for process water, pressure gauge, application to manage a mould temperature probe or a thermocouple, quick mould discharge, remote connection for enable and alarm, 2 or 4 ways manifolds, additional filters, communication interface (Current loop, Ethernet, RS485, Profinet, Profibus, Device-net, Ethernet IP, Powerlink), process water loading line separate from the cooling circuit, sludge remover filter.

Easytherm has an ergonomic design with an integrated handlebar and a clear display to keep the important information always on display

The FTH (Flow Through Heater) avoids any risk of corrosion and failure of the heating elements and maximize heat transfer

Easytherm is one of the most small unit on the market: all the high flow rate models even in HT version share the same compact chassis

	Max temp (°C)	Heating power (kW)	Cooling power (kW) / ΔT = 130°C	Heat exchanger
ETP06	140	6	82	Plate type
ETP12		12		
ETP06-HT	180	6		
ETP12-HT		12		

	Maximum flow rate (l/min)	Pump type	Head (m)	Load power (kW)	Reversible	Model compatibility
Pump P8	40	Mechanical sealing	60	0.75	Yes	ETP06 ETP12
Pump P9	60		60	0.75	Yes	
Pump P10	60	Magnetic drive	60	1	Yes	ETP06-ETP12 / ETP06-ETP12 HT
Pump P11	30		50	0.5	No	ETP06-HT

Easytherm

ETP 112-136 | ETP 112-136HT

Suitable for a wide range of heating power, water flow rate and pressure

Highest standard of quality and reliability

Intuitive control with a wide range of communication interfaces

HIGH CAPACITY WATER TEMPERATURE CONTROLLER

up to 180 °C

The ETP100 mould temperature series uses pressurized water as a process fluid.

The ETP100 series is manufactured using components with the highest level of quality and reliability.

The machine can be configured with different heating and cooling power and with the process pump that provides the right combination of flow rate and pressure.

Easytherm HT series can operate at temperature up to 180°C. Maximum reliability is assured thanks to technologies such us magnetic driven pumps and materials resistant to high working temperatures.

The most important settings are immediately available thanks to the high contrast coloured display; the led integrated in the central knob changes its colour to clearly show the machine status. The new control also includes a wide range of communication interface, including the OPC-UA.

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Process fluid Pressurized water

Cooling mode Indirect

Electrical feeding 380/3/60, 400/3/50, 380/3/60, 460/3/60 (V, Ph, Hz)

Main options Pressure transducer (flow rate calculation), application to manage a mould temperature probe or a thermocouple, quick mould discharge, remote connection for enable and alarm, 2 or 4 ways manifolds, additional filters, communication interface (Current loop, Ethernet, RS485, Profinet, Profibus, Device-net, Ethernet IP, Powerlink), dedicate refilling line for process water, anti-corrosive kit.

Anti-corrosive kit is available to avoid any risk of galvanic corrosion with the consequent risk of damages and contaminants release

The refilling of the process water can be done from the cooling water circuit or from a dedicate line

The tubular heaters are realised with Incoloy 800 to guarantee an high corrosive resistance

ETP	112	118	124	136	112 HT	118 HT	124 HT	136 HT
Max temp (°C)	140				180			
Heating power (kW)	12	18	24	36	12	18	24	36
Cooling power (kW)/DT 110°C	100- Coil 125- Plates							
Heat exchanger	Coil or Plates							

Pump type	P8	P9	P12	P14	P15	P9M	P13M	P16M
Maximum flow rate (l/min)	40	60	100	160	280	60	150	200
Head (m)	60	60	60	31	50	60	50	65
Load power (kW)	0.75	0.75	1.5	1.5	4	1	2.8	4
Reversible	yes	yes	yes	no	no	yes	yes	yes
Model compatibility	ETP112-136					ETP112-136 ETP112-136HT	ETP112-136HT	

Easytherm

EBW-EMW

OPEN SYSTEM TEMPERATURE CONTROLLER

up to 90 °C

Easytherm is the new mould temperature control unit characterized by user-friendliness, flexibility and reliability, for injection and blow moulding and extrusion processes.

A new interior and exterior layout, coupled with high-end components, characterise a versatile machine that guarantees reliability and long term performance. Easytherm EBW - EMW operates at temperatures up to 90°C.

Precise and effective thanks to cutting edge thermal elements

Easy to use thanks the practical controller

Robust because of the use best in class components

PET Preforms & Bottles | Rigid Packaging | Automotive components | Technical parts | Medical solutions | Thermoforming & Technical Sheets | Flexible Film | Pipes, Profiles, Cables | Fibres & Strapping | Recycling | Compounds

Process fluid Water / open system

Cooling mode Indirect

Electrical feeding 380/3/60, 400/3/50, 440/3/60, 460/3/60 (V, Ph, Hz)

Main options 2 or 4 ways manifold, additional water filter, acoustic alarm, reversible running mode, sludge remover filter. Only for EMW: pressure switch to detect water flow, communication interface (Current Loop).

Moulded tank without welding and with corrosion-proof stainless steel construction; bolted cover for easy access and maintenance

The level of water is monitored by a highly reliable sensor, derived from the automotive industry

Peripheral submerged pump inserted inside the coil heat exchanger to maximize the efficiency of the cooling phase

	Max temp (°C)	Heating power (kW)	Cooling power (kW) / DT=70°C	Heat exchanger
EBW09	90	9	21	Coil
EBW12		12		
EMW09		9		
EMW12		12		

	Maximum flow rate (l/min)	Head (m)	Load power (kW)	Reversible	Model compatibility
Pump P6	60	35	0.5	Yes	EBW09 EBW12 EMW09 EMW12
Pump P7	70	60	1	Yes	

Easytherm

EMW 112-124

OPEN SYSTEM TEMPERATURE CONTROLLER

up to 90 °C

Easytherm EMW100 is the new mould temperature control unit characterized by user-friendliness, flexibility, reliability and pump capacity up to 200 l/min for injection, blow moulding and extrusion processes.

A new interior and exterior layout, coupled with high-end components, characterise a versatile machine that guarantees reliability and long term performance. Easytherm operates at temperatures up to 90°C.

Suitable for a wide range of water flow rate and pressure

Easy to use thanks the practical controller

Highest standards of quality and reliability

PET Preforms & Bottles | Rigid Packaging | Automotive components | Technical parts | Medical solutions | Thermoforming & Technical Sheets | Flexible Film | Pipes, Profiles, Cables | Fibres & Strapping | Recycling | Compounds

Process fluid Water / open system

Cooling mode Indirect

Electrical feeding 380/3/60, 400/3/50, 440/3/60, 460/3/60 (V, Ph, Hz)

Main options 2 or 4 ways manifold, additional water filter, acoustic alarm, reversible running mode, pressure switch to detect water flow, communication interface (Current Loop or Modbus RTU).

Internal tank made in AISI304 stainless steel in order to increase corrosion resistant

Different pump types available to meet customer requirements

	Max temp (°C)	Heating power (kW)	Cooling power (kW) / ΔT=70°C	Heat exchanger
EMW112	90	9	65 coil 90 Plates	Coil or Plates
EMW118		12		
EMW124		18		

	Maximum flow rate (l/min)	Head (m)	Load power (kW)	Reversible	Model compatibility
Pump P8	40	60	0.75	Yes	EMW 112 EMW 118 EMW 124
Pump P9	60	60	0.75	Yes	
Pump P12	100	60	1.5	Yes	
Pump P14	160	30	1.5	No	

Easytherm
ETW

OPEN SYSTEM TEMPERATURE CONTROLLER
up to 90 °C

Easytherm is the new mould temperature control unit characterized by user-friendliness, flexibility and reliability, for injection and blow moulding and extrusion processes.

A new interior and exterior layout, redesigned ergonomic control, coupled with high-end components, characterise a versatile machine that guarantees reliability and long term performances. Easytherm ETW operates at temperatures up to 90 °C.

The large 4.3” TFT high contrast display is tilted to ensure easy reading. Navigation in the sub menus is managed via a convenient knob.

Easytherm is already set up for use in Industry 4.0 environments with a wide range of communication protocols, including OPC-UA platform and is Winfactory 4.0 ready.

Precise and effective thanks to cutting edge thermal elements and advanced controller

Easy to use thanks to TFT 4,3” display, frontal status led and intuitive controls

Robust because of the use best in class components

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Process fluid Water / open system

Cooling mode Indirect

Electrical feeding 380/3/60, 400/3/50, 440/3/60, 460/3/60 (V, Ph, Hz)

Main options Flow meter for process water, pressure gauge, application to manage a mould temperature probe or a thermocouple, quick mould discharge, remote connection for enable and alarm, 2 or 4 ways manifolds, additional filters, communication interface (Current loop, Ethernet, RS485, Profinet, Profibus, Device-net, Ethernet IP, Powerlink), process water loading line separate from the cooling circuit, sludge remover filter.

The Easytherm ETW series has an innovative control, with a central knob: its integrated led can immediately shows the machine status

The flow meter (option) keeps under control the process water flow rate and detects leakage in the circuit

Heating element made from highly corrosion resistant alloy (Incoloy825), easily removable for cleaning or maintenance

	Max temp (°C)	Heating power (kW)	Cooling power (kW) / DT=80°C	Heat exchanger
ETW09	90	9	45	Plate
ETW12		12		

	Maximum flow rate (l/min)	Head (m)	Load power (kW)	Reversible	Model compatibility
Pump P6	60	35	0.5	Yes	ETW09 ETW12
Pump P7	70	60	1	Yes	

Easytherm

ETW 112-136

HIGH CAPACITY WATER TEMPERATURE CONTROLLER

up to 90 °C

The ETW100 mould temperature series uses water as process fluid with an open system configuration.

The ETW100 series is manufactured using components with the highest level of quality and reliability.

The machine can be configured with different heating and cooling power and with the process pump that provides the right combination of flow rate and pressure.

The most important settings are immediately available thanks to the high contrast coloured display; the led integrated in the central knob changes its colour to clearly show the machine status. The new control also includes a wide range of communication interface, including the OPC-UA.

Suitable for a wide range of heating power and water flow rate and pressure

Highest standard of quality and reliability

Intuitive control with a wide range of communication interfaces

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Process fluid Water

Cooling mode Indirect

Electrical feeding 380/3/60, 400/3/50, 380/3/60, 460/3/60 (V, Ph, Hz)

Main options Pressure transducer (flow rate calculation), application to manage a mould temperature probe or a thermocouple, quick mould discharge, remote connection for enable and alarm, 2 or 4 ways manifolds, additional filters, communication interface (Current loop, Ethernet, RS485, Profinet, Profibus, Device-net, Ethernet IP, Powerlink), dedicate refilling line for process water, anti-corrosive kit.

The focus during the design has been on maximizing reliability and machine lifespan, with the minimum maintenance

In case of multiple-zones mould, Easytherm TCUs can be connected to one another via RS485, Current Loop or Ethernet

The direct access to the main and most common functions is through six capacitive short cuts touch buttons

	Max temp (°C)	Heating power (kW)	Cooling power (kW) / ΔT = 70°C	Heat exchanger
ETW112	90	12	65 coil 90 plates	Coil or Plate
ETW118		18		
ETW124		24		
ETW136		36		

	Maximum flow rate (l/min)	Head (m)	Load power (kW)	Reversible	Model compatibility
Pump P8	40	60	0.75	Yes	ETW112 ETW118 ETW124 ETW136
Pump P9	60	60	0.75	Yes	
Pump P12	100	60	1.5	Yes	
Pump P14	160	31	1.5	No	

Easytherm
EMO

OIL TEMPERATURE CONTROLLER

up to 150 °C

Easytherm is the new mould temperature control unit characterized by user-friendliness, flexibility and reliability, for injection and blow moulding and extrusion processes.

A new interior and exterior layout, coupled with high-end components, characterise a versatile machine that guarantees reliability and long term performance. Easytherm operates at temperatures up to 90°C.

EMO 06 uses diathermic oil to reach temperatures up to 150 °C.

Precise and effective thanks to cutting edge thermal elements

Easy to use thanks the practical controller

Robust because of the use best in class components

PET Preforms & Bottles | Rigid Packaging | Automotive components | Technical parts | Medical solutions | Thermoforming & Technical Sheets | Flexible Film | Pipes, Profiles, Cables | Fibres & Strapping | Recycling | Compounds

Process fluid Oil

Cooling mode Indirect

Electrical feeding 380/3/60, 400/3/50, 440/3/60, 460/3/60 (V, Ph, Hz)

Main options 2 or 4 ways manifold, additional water filter, acoustic alarm, reversible running mode, pressure switch to detect oil flow, communication interface (Current Loop or Modbus RTU).

Moulded tank without welding and with corrosion-proof stainless steel construction; bolted cover for easy access and maintenance

Peripheral submerged pump inserted inside the coil heat exchanger to maximize the efficiency of the cooling phase

	Max temp (°C)	Heating power (kW)	Cooling power (kW) / DT=130°C	Heat exchanger
EMO 06	150	6	13	Coil

	Maximum flow rate (l/min)	Head (m)	Load power (kW)	Reversible
Pump P6	60	35	0.5	Opt
Pump P7	70	60	1	Opt

Easytherm

ETO / ETO HT 112-136

HIGH CAPACITY OIL TEMPERATURE CONTROLLER

up to 250 °C

The ETO100 mould temperature series uses diathermic oil to reach temperatures up to 250°C.

The ETO100 series is manufactured using components with the highest level of quality and reliability.

The machine can be configured with different heating and cooling power and with the process pump that provides the right combination of flow rate and pressure.

The most important information are immediately available thanks to the high contrast coloured display; the led integrated in the central knob changes its colour to clearly show the machine status. The new control includes also a wide range of communication interface, including the OPC-UA.

Suitable for a wide running range of heating power and oil flow rate

Highest standard of quality and reliability

High process temperatures without increasing of running pressure

PET Preforms & Bottles | Rigid Packaging | Automotive components | Technical parts | Medical solutions | Thermoforming & Technical Sheets | Flexible Film | Pipes, Profiles, Cables | Fibres & Strapping | Recycling | Compounds

Process fluid Oil

Cooling mode Indirect

Electrical feeding 380/3/60, 400/3/50, 380/3/60, 460/3/60 (V, Ph, Hz)

Main options Pressure transducer (flow rate calculation), application to manage a mould temperature probe or a thermocouple, quick mould discharge, remote connection for enable and alarm, 2 or 4 ways manifolds, additional filters, communication interface (Current loop, Ethernet, RS485, Profinet, Profibus, Device-net, Ethernet IP, Powerlink).

	Max temp (°C)	Heating power (kW)	Cooling power (kW) / ΔT = 140°C	Heat exchanger
ETO112	160	12	46 coil 125 plates	Coil or Plate
ETO118		18		
ETO124		24		
ETO136		36		
ETO112HT	250	12	46 coil	Coil
ETO118HT		18		
ETO124HT		24		
ETO136HT		36		

	Maximum flow rate (l/min)	Head (m)	Load power (kW)	Reversible	Model compatibility
Pump P8	40	60	0.75	Yes	ETO112 ETO118 ETO124 ETO136
Pump P9	60	60	0.75	Yes	
Pump P12	100	60	1.5	Yes	
Pump P14	160	31	1.5	No	
Pump P15	280	50	4	No	
Pump 9M	60	60	1	Yes	ETO112HT ETO118HT ETO124HT ETO136HT
Pump 13M	150	50	2.8 (50Hz) - 3.5 (60Hz)	Yes	
Pump 16M	200	65	4 (50Hz) - 4.5 (60Hz)	Yes	

Easytherm Flow

ETP 112-136 | ETP-F 112-124ID

Time reduction in process start-up

Reduction of molding cycle time

Fast payback of investment

TEMPERATURE CONTROLLER WITH HIGH FLOW RATE AND HEAD

up to 140°C, 300 l/m or 130 m head

The ETP-F series is designed to meet market needs where high-water flow rates and very precise mold temperature control are required. The temperature controller employs highly reliable components and advanced control to manage and monitor temperature, flow rate, and pressure. The multiprotocol board allows precise interfacing with the injection molding machine.

With the ETP-F series it is possible to equip a specific series of multistage pumps capable of reaching very high flow rates, up to 300 l/min or heads up to 130 meters.

The pump is natively controlled by an inverter that interacts with the HMI of the temperature controller allowing the operator to take action quickly during the molding process. The inverter also allows the pump speed to be set according to the needs of the process ensuring optimal work and containing energy consumption.

In the field, ETP-F allows without any particular setting an important reduction of cycle time and a faster start-up of the mold up to 20 %.

Considering the result in terms of high efficiency achievement ETP-F series allows a fast payback of the investment.

ETP-F series offers a wide range of solutions in terms of pump performance, heat exchangers such as, coil, plate system, and direct injection for high cool efficiency.

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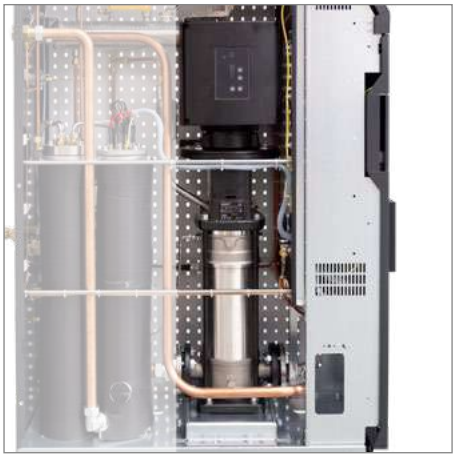
Process fluid Water

Cooling mode Indirect or direct

Main options Flow sensor for temperature till 120 °C, multiprotocol communication interface (current loop, Ethernet,RS485, Profinet, Profibus, Device-net, Ethernet IP, Powerlink).



Multi-stage pump for a high process efficiency.

Insulation made of special material conferrable in standard waste in case of replacement.

Top version HMI drives the operator on setting parameters and through an easy and immediate status check of the system.

	Max temperature	Heating power (kW)	Head exchanger	Pumps	Flow sensor
ETP-F112-118-124-136	140	12-18-24-36	Coil/plate	P59HT-P106HT-P107HT	OPTIONAL ((MWT: 120°C)
ETP-F 112-118-124 ID	90	12-18-24	Direct injection	P59-P106-P107	OPTIONAL

MWT: max working temperature

Max T=90°C	Type	Max flow rate l/min	Max head (m)
P107	Multi-stage pump in Cast iron	300	130
P106		260	110
P59		160	100

Max T=140°C	Type	Max flow rate l/min	Max head (m)
P107HT	Multi-stage pump Stainless steel	300	130
P106HT		260	110
P59HT		160	100

Thermovan

Mould temperature controllers

TW – TO – TP series

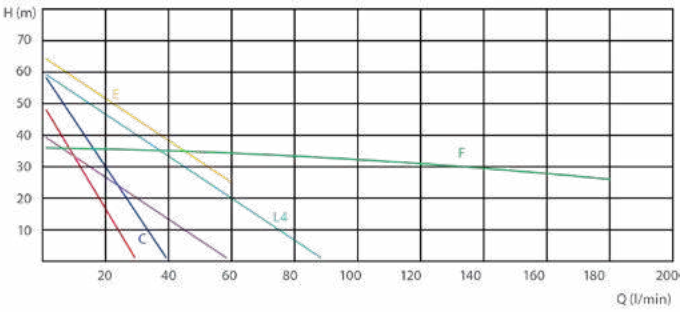
Benefits:

- High and constant productivity
- Optimisation of the running costs
- Immediate and optimal usage of the unit
- Constant process control
- Continuous operation and long life
- No maintenance cost for the heaters' control
- Short production stops

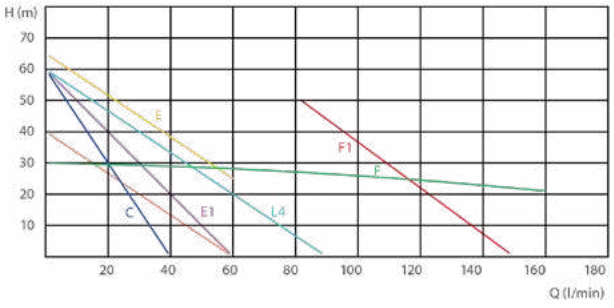
Wf 4.0 Winfactory 4.0 READY

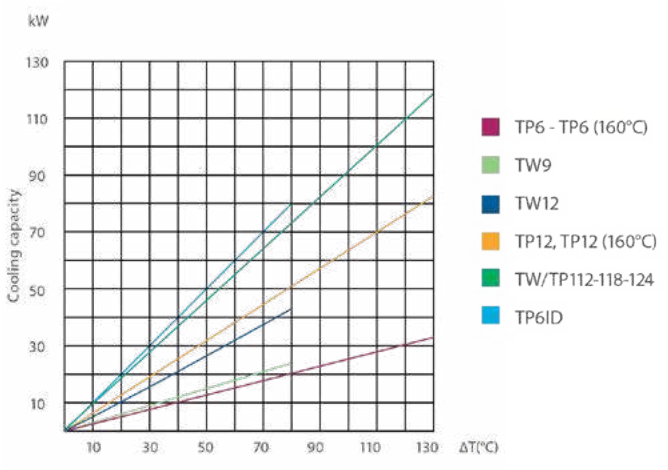
The TW, TO and TP series of Piovan mould temperature controllers has been designed to maintain at a constant temperature the mould cavities, the hydraulic oil of the injection moulding machines, the extruder screws, the calibration heads, the cylinders and calenders of thermoforming lines. Water, oil and pressurised water models operate in a wide range of temperatures, from 20°C up to 250°C.

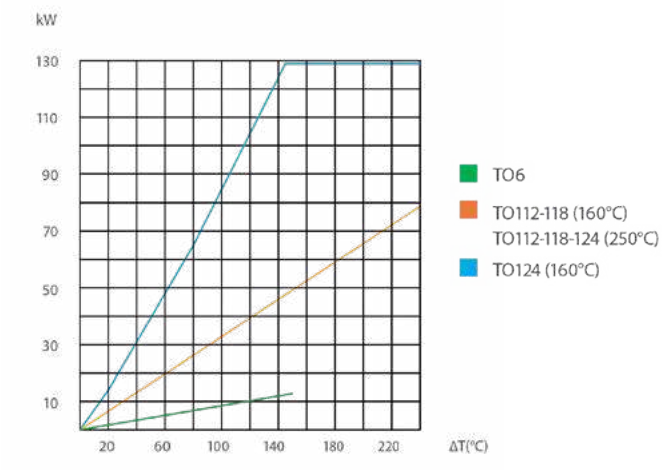
- TP 6-12, TP 6 ID, TW/TP 112-118-124 pump "C"
- TW9-12
- TP6-12 (160°C)
- TW/TP112-118-124 pump "L4"
- TW/TP112-118-124 pump "E"
- TW/TP112-118-124 pump "F"



- TO6
- TO112- pump "C"
- TO112- pump "L4"
- TO112 - pump "E"
- TO112-118-124 - pump "F"
- TO112 - 250°C - pump "E1"
- TO112-118-124 - 250°C - pump "F1"







TECHNICAL DATA		TO6	TW9	TW12	TP6	TP12	TP6 160°C	TP12 160°C	TP6ID
Max. temperature	°C	160	90		140		160		90
Operating fluid		oil	water		pressurised water				water
Heating power	kW	6	9	12	6	12	6	12	6
Cooling type		indirect							direct
Pump power	kW	0.75					0.5		0.75
Max. pump flow rate	l/min	60			40		30		40
Max. pump pressure	m	40			60		50		60
Connections - process		1/2"F							
Connections - cooling		1/2"F							
Dimensions (LxWxH)	mm	250x686x678							
Weight	kg	55			60				

Version: 230-400/3/50; 220-380-460/3/60 - The pump reverse mode is not available for the TP6ID unit.

TECHNICAL DATA		TW112	TW118	TW124	TP112	TP118	TP124	TO112	TO118	TO124	TO112 250°C	TO118 250°C	TO124 250°C
Max. temperature	°C	90			140/90*			160			250		
Operating fluid		water			press. water			oil					
Heating power	kW	12	18	24	12	18	24	12	18	24	12	18	24
PUMP C	kW	0.75			0.75			0.75					
Max. flow rate	l/min	40			40			40					
Max. pressure	m	60			60			60					
Pump E	kW	1.5			1.5			1.5					
Max. flow rate	l/min	60			60			60					
Max. pressure		65			65			65					
Pump L4	kW	1.5			1.5			1.5					
Max. flow rate	l/min	90			90			90					
Max. pressure	m	60			60			60					
Pump F	kW	1.5			1.5			1.5					
Max. flow rate	l/min	180			180			160					
Max. pressure	m	35			35			30					
Pump E1	kW										1		
Max. flow rarte	l/min										60		
Max. pressure	m										60		
Pump F	kW											2.8	
Max. flow rate	l/min											150	
Max. pressure	m											50	
Connections - process		1°F											
Connections - cooling		1/2"F											
Dimensions (LxWxH)		400x867x1000											
Weight	kg	120											

Version: 230-400/3/50; 220-380-460/3/60 - The pump reverse mode is not available for the F pump. * Temperature for ID (Direct Injection) models

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