



MECHATRONIC SOLUTION
ADVANCED MANAGEMENT TEMPERATURE

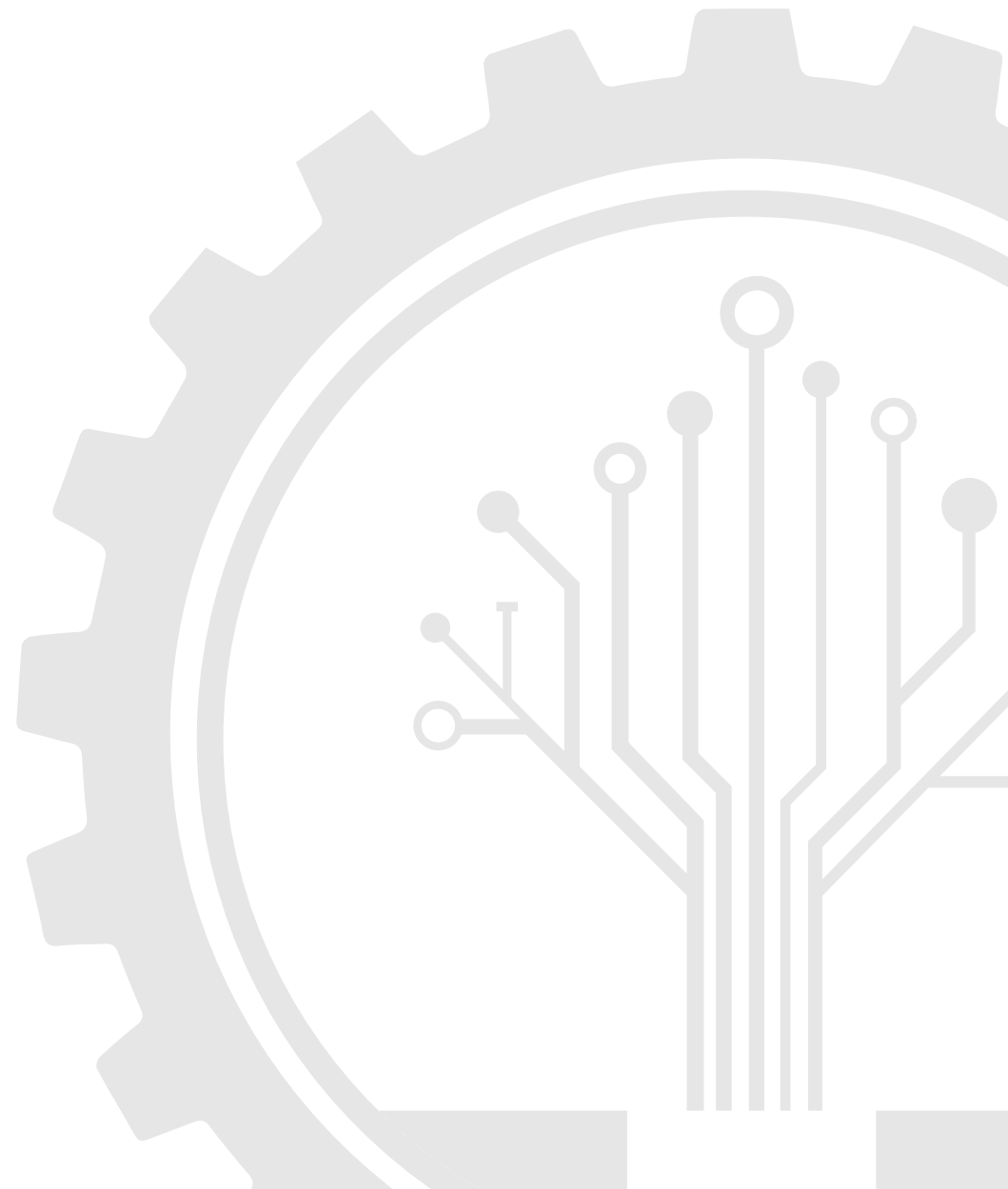
MONZA TECH

MECHATRONIC SOLUTION
ADVANCED MANAGEMENT TEMPERATURE

MonzaTech is a start-up founded in 2016 and principally owned by the Meregalli Group.

An Italian company established thanks to the passion and experience of its founders in the field of Motorsport.

The years of experience acquired on the circuits, means Monzatech can provide innovative solutions and products, satisfying professionals, racing teams and amateurs from all over the world.







The MWP is a patented electromechanical system that automatically manage the temperature of thermal or electric engines.

The system is made of two main components: the electronic control unit and the water pump.

The control unit is connected to the CAN system of the vehicle to get the engine temperature data, and to another temperature sensor included into the electric pump. Thanks to these information, it automatically determines the radiator's ability to dissipate heat, and consequentially manages the fans and the pump speed proportionally to make the best efficiency from the cooling system.

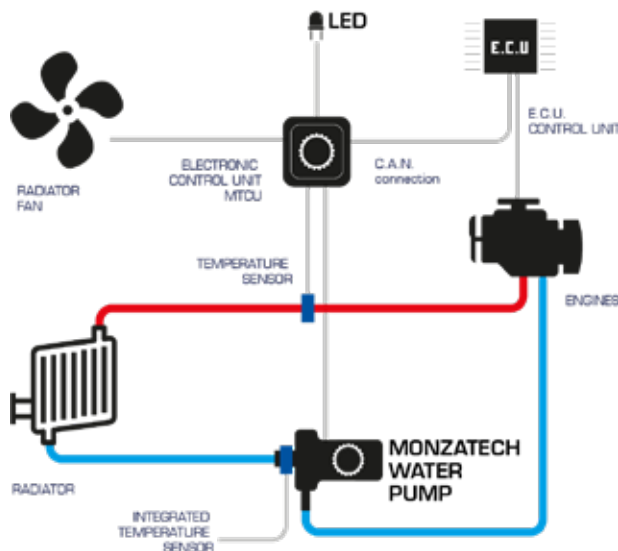
Depending on the set temperature, the flow of coolant and the power of the cooling fans increase independently of the number of engine revolutions and without waiting for the engine to reach 100 ° Celsius.

The whole Monzatech cooling system guarantees a completely new level of efficiency, increasing the capacity of the original radiator by 30% to dissipate the heat of the engine.

In recent years, the higher specific powers of engines, combined with stringent anti-pollution regulations, caused an increase of the engine operating temperatures.

For example, while driving in city traffic at reduced speeds and low rpm, the MWP pump could operate at maximum speed reducing the engine heat, thing that only occurs only at full engine speed in the case of a mechanical pump.

Those who use a motorbike on a track know how important it is to keep the temperature within the right range to get the best performance from the engine, the MONZATECH kit ENSURES engine efficiency and stable performance.



WARM-UP

Series installation to the original pump

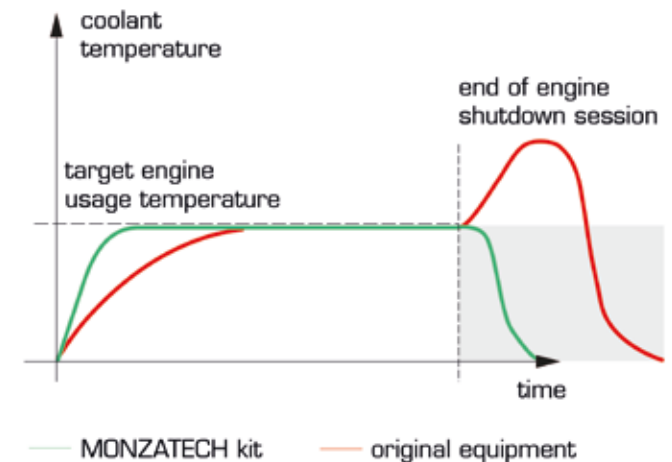
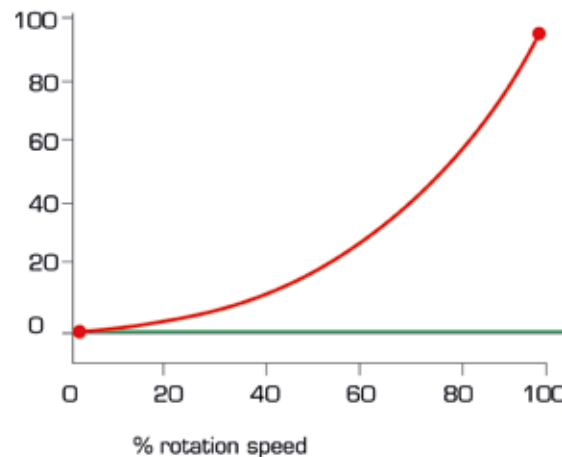
The MWP pump limits the flow of liquid in the circuit and this encourages heating.

Stand-alone installation

The MWP pump manages the flow of the coolant to heat the engine thermals faster. This way, the engine will work within the correct temperature range ensuring it continues to work.

COOL-DOWN

The MWP pump ensures a continuous circulation of the coolant and also handles the fan operation to encourage the dispersion of heat, thus avoiding overheating which damages the engine.



PROPORTIONAL RADIATOR FAN CHECK

The electronic control unit combines the operating mode of the pump with the proportional management of the fans, so there is no longer on/off but 0 to 100%. This way, the fan can start at temperatures lower than those set by the manufacturer, avoiding a build up of heat in the engine which is more difficult to dissipate.

FOR THOSE WHO USE THE MOTORBIKE ON A TRACK

Increasing the performance of the cooling system increases also the efficiency of the original radiator, so there is no need to replace it with larger models.

ELIMINATION OF THE THERMOSTATIC VALVE

The system automatically adjusts the flow of liquids in the system making the thermostatic valve and the choking of the radiator with the tape superfluous.

INCREASED POWER

In the case of a stand-alone installation, it is possible to remove the impeller of the mechanical pump, recovering the power absorbed over the entire distribution span.

A close-up photograph of a car's exterior. The left side of the image is dominated by a bright red, glossy surface, likely a fender or door panel. To the right, there is a black plastic trim piece, possibly a wheel arch or side skirt, which is attached to the red body panel with visible metal fasteners. The lighting is dramatic, highlighting the curves and textures of the car's components.

KIT PLUG'N'PLAY

Monzatech



WIOVZA TECH

DUCATI PANIGALE V4

MT - KDPV4





MECHANICAL

MT-MWP070

KIT Plug'n'Play Ducati V4 | Flow 70 l/min @ 13,8 volt

Material CNC+ Carbon | Application MT-CU-M

Dimension 113x53 mm | Weight 480g

Power/Consumption 13,8 volt/4,2 Ah

PRICE WITH VAT 590 €

ELECTRONICS CONTROL UNIT

MT-CU-MV4

ECU retarder e cool-down | Material Aluminium

Power/Consumption 10-18 volt/0,05 Ah

Weight 480 g | Dimension 113x53 mm

ECU with CAN interface to veichle

PRICE WITH VAT 549 €





BEHIND the performance

INSIDE THE KIT

MT-KDPV4

Water pump **MT-WP070**

Electronic control unit **MT-CU-MV4**

Side panels dx/sx in carbonio *

Silicone radiator tubes | Cablaggi

PRICE WITH VAT 1.279 € **

*The kit includes the replacement of the original side panels.

** price excluding side panels

MONZA TECH

DUCATI PANIGALE 1299

MT - KDP99





MT-MWP070

MECHANICAL

Water Pump	Flow 70 l/min @ 13,8 volt
Material CNC+ Carbon	Application MT-CU-M
Dimension 113x53 mm	Weight 480g
Power/Consumption 13,8 volt/4,2 Ah	

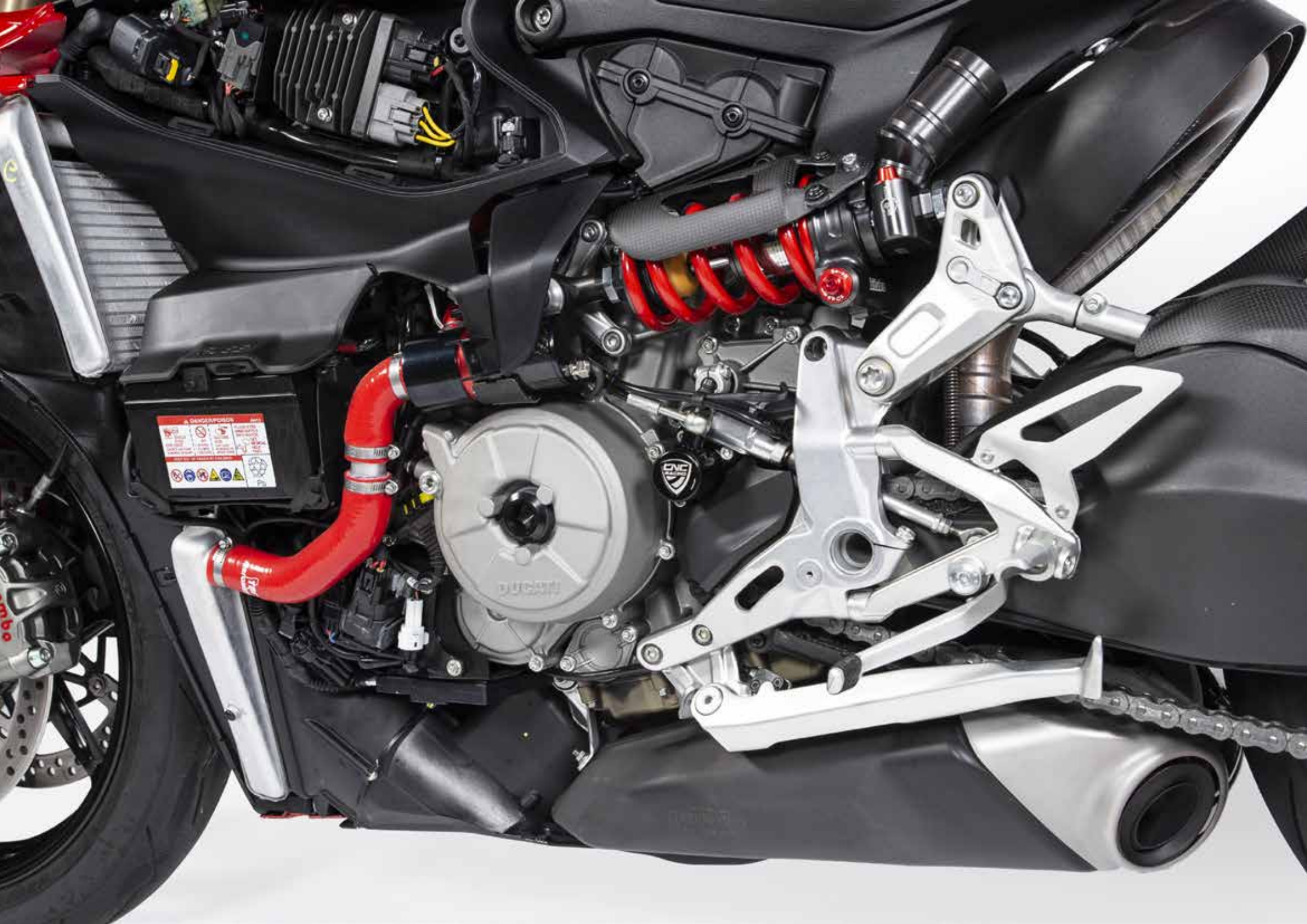
PRICE WITH VAT 590 €

MT-CU-M99

ELECTRONICS CONTROL UNIT

ECU retarder e cool-down		Material Aluminium
Power/Consumption 10-18 volt/0,05 Ah		
Weight 480 g	Dimension 113x53 mm	
ECU with CAN interface to veichle		

PRICE WITH VAT 549 €





For your bike only
THE BEST

INSIDE THE KIT

MT-KDP99

Water pump **MT-WP070** | diagnostic Led

Electronic control unit **MT-CU-M99** | Cablaggi

Anchorage brackets | Silicone radiator tubes

PRICE WITH VAT 1.579 €

MONZA TECH

DUCATI MULTISTRADA 1260

MT - KDM60





MT-MWP070

MECHANICAL

Water Pump	Flow 70 l/min @ 13,8 volt
Material CNC+ Carbon	Application MT-CU-M
Dimension 113x53 mm	Weight 480g
Power/Consumption	13,8 volt/4,2 Ah

PRICE WITH VAT 590 €

MT-CU-M60

ELECTRONICS CONTROL UNIT

ECU retarder e cool-down	Material Aluminium
Power/Consumption	10-18 volt/0,05 Ah
Weight 480 g	Dimension 113x53 mm
ECU with CAN interface to veichle	

PRICE WITH VAT 549 €





For your **COMFORT** on board

INSIDE THE KIT

MT-KDM60


Water pump **MT-WP070** | Wiring

Electronic control unit **MT-CU-M60**

Anchorage brackets | Silicone radiator tubes

PRICE WITH VAT 1.460 €

MONZA TECH



MONZATECH is technical partner for the AC Racing Team. In 2018
bikes fitted with our pumps participated in
and won the following titles:

Italian and European MiniGP 2018 Championship
with **LUCA LUNETTA**

European MiniMoto Open A Championship 2018
with **GRAZIANO SIMONE**



MONVZA TECH

MINI GP - 2 Strowke 35CV

MT - KMNGP





MECHANICAL

MT-WP030S

Application **Engine up to 35 cv 2T** | Material **Nylon**

Dimension **78x52 mm** | Weight **480 g**

Power/Consumption **12,6-16,8 volt/1,2 Ah**

Flow **30 l/min @ 16,8 volt**

PRICE WITH VAT 249 €





Fight for **EVERY** second

INSIDE THE KIT

MT-KMNGP

Water pump **MT-WP030S** | Wiring

Diagnostic Led | Smart Button

Anchorage brackets

PRICE WITH VAT 590 €

MONZATECH

STAND ALONE ESSENTIAL KIT

MT - KSA

The Stand Alone essential kit is the gateway to the Monzatech Cooling System world. The kit is designed for all applications where there is **no electronic control unit on the vehicle** or no fine control over the coolant temperature is required. It's fully stand alone, in electric mode the pump operation is **always 100% flow**. The kit can be **upgraded with dedicated accessories**, including the electronic control unit.



The *ESSENTIAL*cooling

INSIDE THE KIT

MT-K-SA | Water pump **MT-WP070** | Wiring
Electronic control unit **MT-CU-M60**
Anchorage brackets

PRICE WITH VAT 599 €

ELECTRONIC STAND ALONE KIT

MT - KESA

The Smart stand-alone kit can be installed on **vehicles without an ECU** or for which a specific plug and play kit has not yet been developed. It's **fully standalone** and **includes all the features** of Monzatech top-level kits including coolant flow control, warm-up, cool down and fan management. Just plug it and enjoy the advantages of advanced cooling management!



Smart EASY and *PERFORMING*

INSIDE THE KIT

MT-K-ESA

Water pump **MT-WP070** | Wiring

Electronic control unit **MT-CU-MSA**

Anchorage brackets

PRICE WITH VAT 1.198 €

ELECTRONIC CONTROL UNIT

MT-CU-M



The electronic control unit lies at the heart of the system.

Thanks to algorithms developed by our engineers, **it can automatically manage the operation of the electric pump and the radiator fans.**

The case is made of CNC machined aluminium and is fully waterproof.

The engine's target temperature is pre-set in line with the bike's specifications and is easy to install thanks to the connectors compatible with the original ones (plug&play).



ATTRIBUTES

Management water pump MW70 e MWP180

Material **CNC** | Dimension **101x14x80 mm**

Can interface **YES** (2 Can) + Firmup | Weight **180 g**

Power/Consumption **10-18 volt/0,05 Ah**

PRICE WITH VAT 549 €



ELECTRONIC WATER PUMP

MT- WP070



The **WP070** is an electric pump for the cooling system in thermal or electric engines.

Its DC engine ensures a maximum flow rate of 70 litres per minute with a pressure of 0.8 bar, enough to cool an **engine over 200hp**.

Its reduced dimensions and extreme robustness also permit installation on motocross, enduro, tourer and supersport bikes.

Its structure is made of billet aluminium combined with carbon fibre.



ATTRIBUTES

Application **Engine up to 100 cv** | Weight **480 g**

Material **CNC+ Carbon** | Dimension **113x53 mm**

Can Interface **YES** if connected to the control electronics

Power/Consumption **13,8 volt/4,2 Ah** | Portata **70 l/min @ 13,8 volt**

PRICE WITH VAT 590 €



DIAGNOSTIC LED

MT-LD-M



Its structure is made of billet aluminium combined with carbon fibre.

The diagnostic LED provides constant feedback on the operating status of the connected pump; the LED warns if the pump is on or off.

The LED is supplied with a CNC support bracket which can be easily installed on the motorcycle handlebar.



ATTRIBUTES

Dimension **Minimal**

Pump Hall Sensor Input

Management of multicolor leds

PRICE WITH VAT 119 €



SMART BUTTON

MT- WP- SB



The smart button was developed for racing applications in systems equipped with battery power.

Depending on the version, it can be **interfaced with AIM dashboards to ensure automatic switching on and off of the system.**

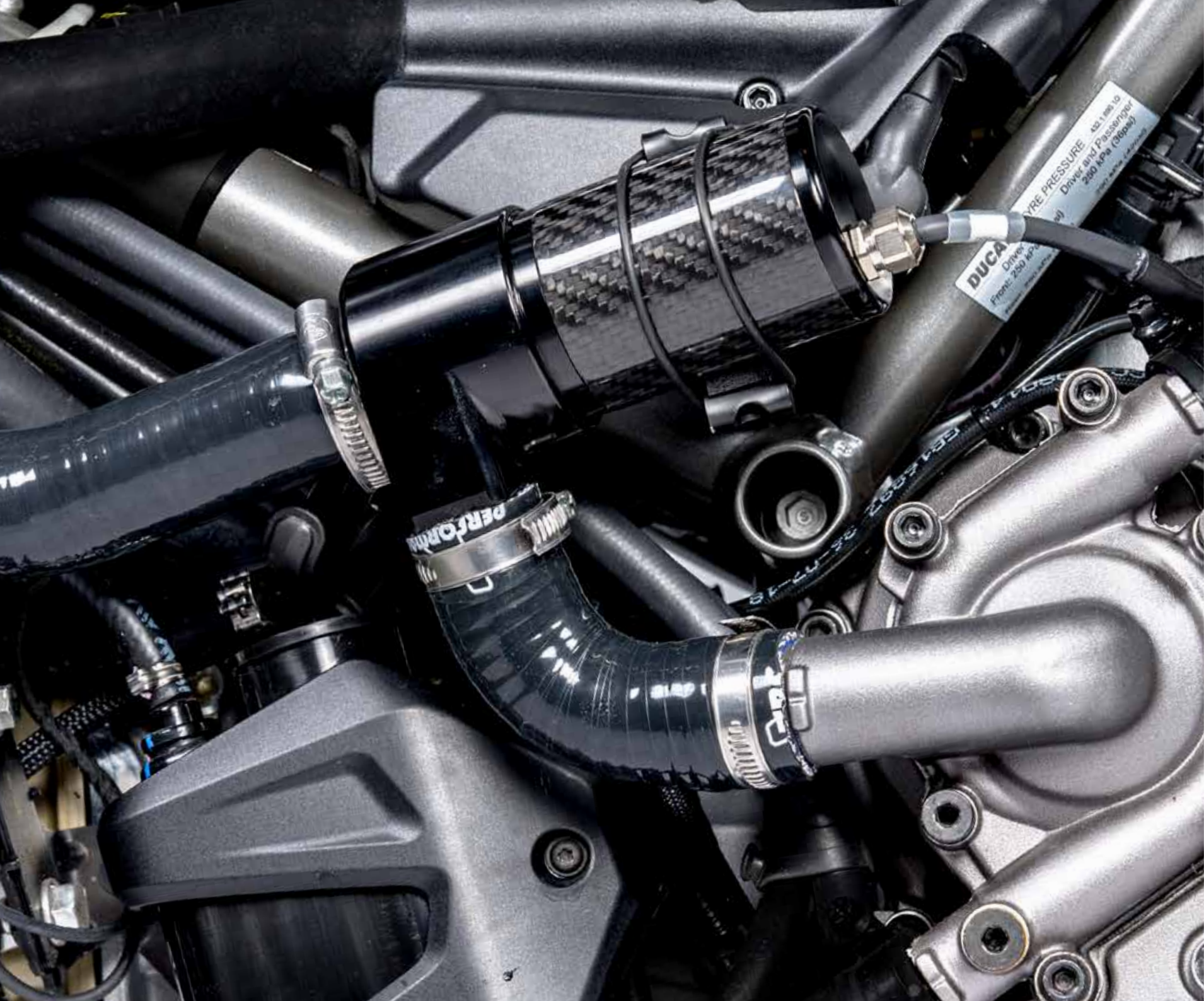


ATTRIBUTES

Power button applications for MWP 030-030S-070
Automatic/manual interface if connected to AIM system
Weight 45 g

PRICE WITH VAT 149 €







ESPOSIZIONE
INTERNAZIONALE
CICLO E MOTOCICLO

MONZATECH will be present

7-10 NOVEMBER | RHO FAIR
the exposure **EICMA 2019**

For appointments

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