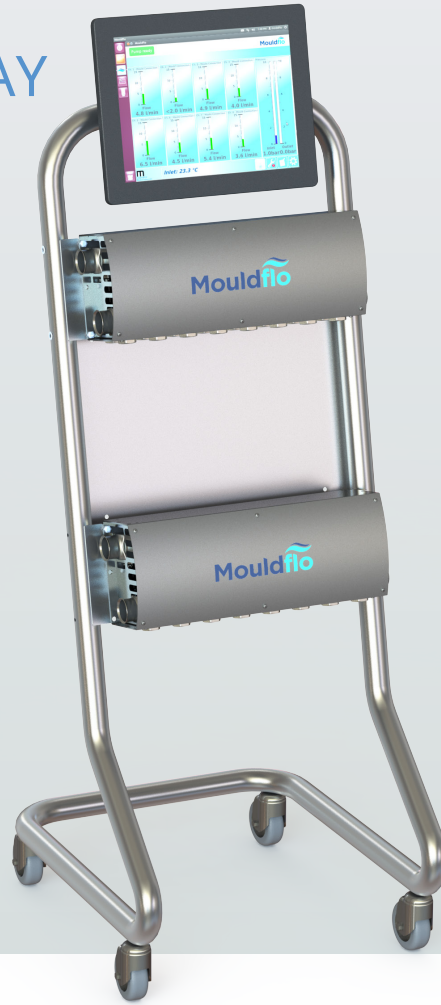


THE CART

MOBILE PLUG & PLAY MONITORING



Flexible plug & play solution



Monitor flow, pressure and temperature



Move around easily to the relevant machine



Quickly diagnose issues on any machine



Optimise production value and energy efficiency



Get the complete overview in one screen



Protect your moulds and plan preventive maintenance



Ensure efficient troubleshooting and minimal downtime

Optimise your production and energy efficiency

The Mouldflo Cart gives you a temporary overview of the cooling systems in your production.

It offers the complete functionalities of the Flow Monitoring System, put neatly together in a standardised setup, attached to a moveable frame.

This makes the Cart a mobile and flexible plug & play solution, that can be used in rotation on several moulding machines in a production line.



The Flow Monitoring System on wheels

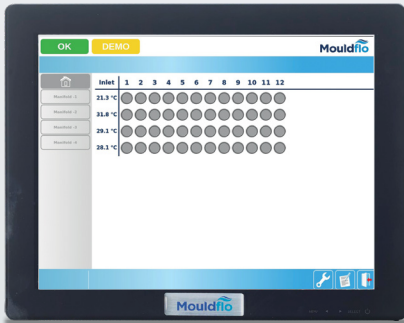
The Mouldflo Cart uses intelligent manifolds to monitor temperature, pressure and flow in the cooling circuits within the mould. This gives you vital information about how your production is performing as well as the knowledge you need to improve your production value, optimise your energy efficiency and protect your moulds.

As opposed to the Flow Monitoring System, this solution is not installed directly on the moulding machine but on a frame, that you can easily move around and plug into the relevant mould. This gives you a flexible solution that can be used on different machines, depending on how your production changes or where an issue arises.

With this mobile plug & play solution you can get a quick and temporary overview of all relevant machines in turn.

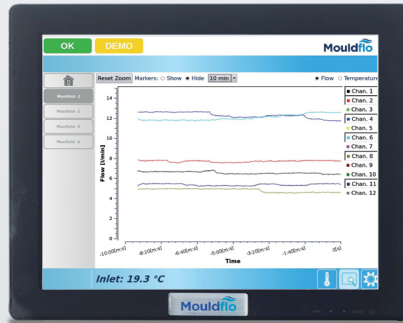
Specifications

The Mouldflo Cart	
Dimensions	60 x 60 x 140
Display	15" touch screen
Control	Microprocessor based / computer based
Communication ports	Ethernet / USB
Storage (log and settings)	Internal / USB (optional)
Display units (flow)	Litres / gallons switchable
Display units (temperature)	°C / °F switchable
Warning limits	Customisable
Number of manifolds possible	Up to 2
Number of zones pr. manifold	4/8/12 Standard
Flow sensor type	Vortex Flowsensor (VFS)
Pressure sensor type (add-on)	Relative Pressuresensor (RPS)
Range (Flow)	1-15, 1-20 or 2-40 litres/min
Power supply	12 or 24 VDC
Operating temperature (max)	Standard: 0 - 95°C / High Temp: 0 - 120 °C
Operating pressure (max)	10 bar
Temperature sensing	Per circuit (return)
Flow sensing	Per circuit (return)
Temperature sensor - main inlet	Yes
Accuracy (Flow)	1% fs
Accuracy (Temperature)	15 - 90°C: +/- 0,5 °C 0 - 120°C: +/- 1 °C
Resolution (Temperature)	0.5°C



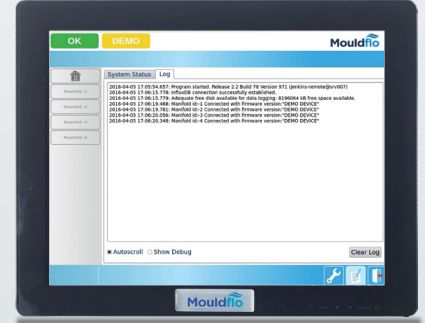
Simple overview

Get an immediate overview of cooling circuit status 'at a glance' on a single screen with instant display status and alarms if the flow / temperature goes outside of tolerance



Historical data

A performance log for each circuit and manifold is stored on the internal memory allowing the user to track the performance and easily identify problems



Event log

Alarm errors, warnings and operator changes are all stored with a time and date stamp and can be reviewed at any time

Software Interface

Using a mounted touch screen the Cart will monitor and display the flow and temperature for every circuit. The information can be displayed in either a graphical or text format. The data is stored in the internal memory, time and date stamped for ultimate traceability.

The interface gives a quick overview of the data, making it easy for the operator to spot any trend in deteriorating performance for any particular flow circuit. The data can be read over an Ethernet connection or downloaded onto a USB stick.

The system is capable of storing multiple mould set-ups on the internal memory which can be quickly loaded when a mould is changed with all the correct set-points saved for any given mould.

Manifolds

The intelligent manifolds comes in a variety of sizes and installations. This means, that we can provide you with a solution tailored specifically for your requirements.

The Mouldflo Cart can be customised with either one or two manifolds of your choice. The manifolds are attached to the frame for complete mobility.

The Cart is available with our aluminium and stainless steel manifolds with 4, 8 or 12 zones, giving you the opportunity to monitor up to 24 cooling channels at once.

We recommend that you use aluminium manifolds for aluminium moulds, and stainless steel manifolds for steel moulds.

Take it from our customers...



We are happy to have implemented the Mouldflo functionalities into our work processes. It's easy to use the products and it helps a lot to maintain the quality during production.

Eagle Industry



Mouldflo helps us start our production faster, making the time it takes to change a mould more efficient by nearly 10 minutes. It saves us important time and it has improved our work flow considerably.

Varroc Lighting Systems



Just having the flow monitoring has been a huge troubleshooting advantage, as we have been able to compare flow through the three different molds that we have been sampling. We immediately found that one of the new tools had a blocked circuit and were able to fix it right away.

T E Connectivity



The Test-rig gives us the reports and technical data required to optimise a tool's cooling efficiency.

Aalbers Tool and Mould Inc.

