



# IMI AERO-DYNAMIEK

Your **trusted partner** in building performance optimisation

**Breakthrough Engineering**

**IMI** Hydronic Engineering



# Who we are

**Our purpose is to help customers make buildings safe, comfortable and healthy for the people that live and work in them, save costs and have a positive impact on the environment.**

Founded as testing, adjusting and balancing company in 1973, IMI Aero-Dynamiek supports customers in Construction, Healthcare and Industry with a full commissioning and performance testing package. In doing so we help them to establish and demonstrate continued control over building performance.

Owned by the British Engineering company IMI plc and being part of their Hydronic Engineering division allows us to provide unique and in-depth knowledge of hydronic systems on top of our expertise on standards & guidelines through our (inter) national involvement in societies related to building performance.

Employing the largest pool of field service technicians equipped with up-to-date calibrated instruments we gather reliable data, compare this with user requirements, deliver insight into the current building status and provide opportunities for optimization.



**Commissioning**



**Performance testing**

**IMI AERO-DYNAMIEK**

**IMI Hydronic Engineering is a division of IMI plc and is a global leader in supplying hydronic distribution systems focusing on HVAC solutions.**

At IMI Hydronic Engineering, we seek to create tremendous value for customers through our unique knowledge of hydronic systems by innovating premium products and services and delivering energy-efficient solutions and comfort for everyone. Our solutions enable control of indoor climates with high precision while also providing sustainable, comfortable, and energy-efficient places to live, work and play.

We are the industry-leading provider of world-class, innovative, and energy-efficient heating HVAC solutions. Our range of reliable products and services makes it easier to design, install, commission, and maintain HVAC systems by enabling complete control while minimising costs, maximising efficiency, and adding long-term value to HVAC systems.

We provide solutions for every customer challenge – from individual domestic installations to significant commercial developments. We are constantly working to find innovations to match your unique needs.

**A Global Expert in HVAC Systems**



Learn more about our expertise

**IMI Hydronic Engineering**

**IMI PNEUMATEX**

**IMI TA**

**IMI HEIMEIER**

**IMI AERO-DYNAMIEK**

**1973** Founded as a testing, adjusting & balancing company in The Hague

**1990** Development of own balancing reporting software

**1994** First ERP software in place

**2000** Acquisition by IMI (Indoor Climate)

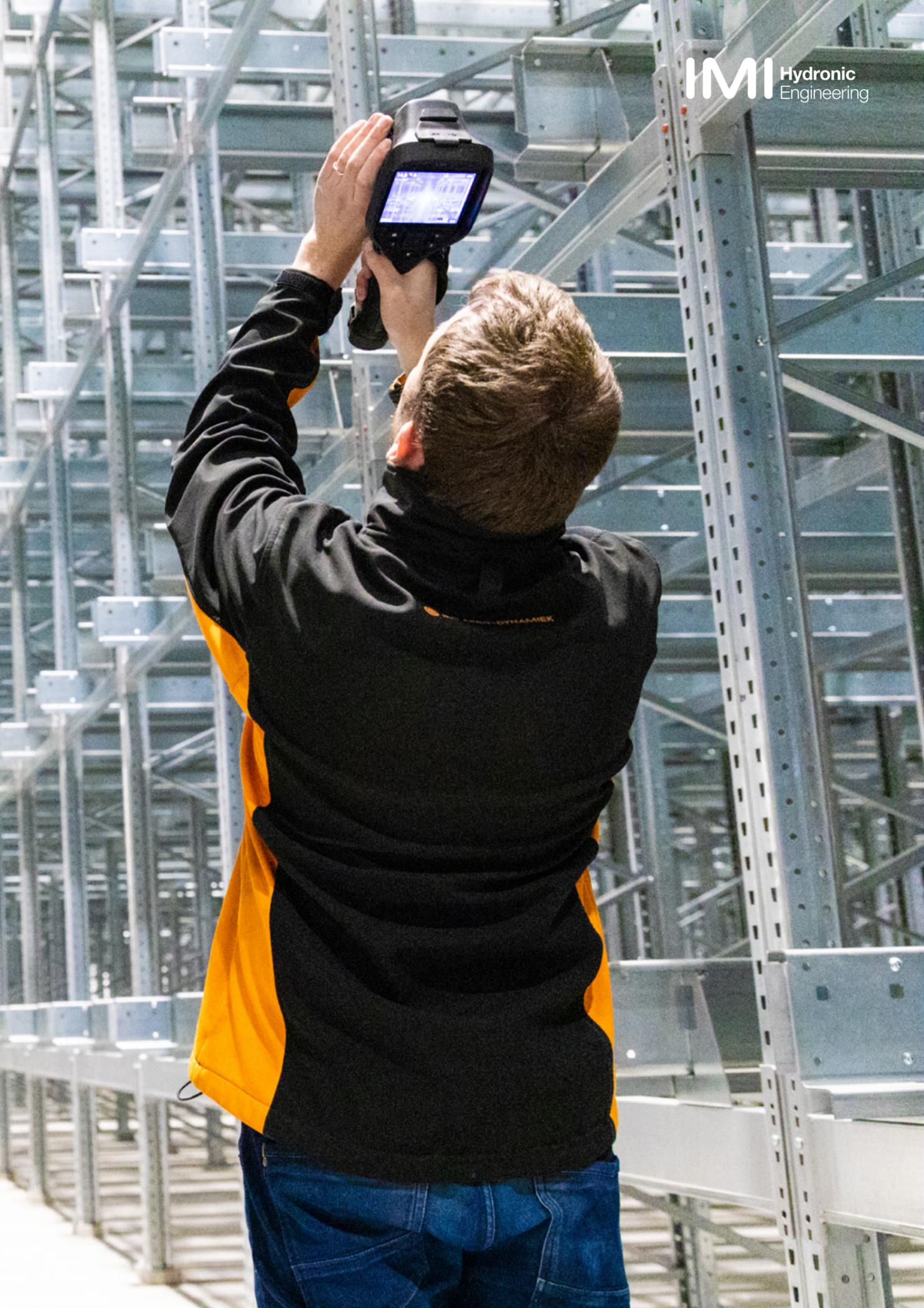
**2002** Start in Belgium (BVBA)

**2004** Setting up test services in addition to balancing

**2008** Start of own calibration laboratory

**2011** Setting up a dedicated team for performance testing of controlled environments

**2016** Start of commissioning plumbing systems



# Where we play

Cities are complex places with many different building types, all needing specific services to make sure they function as optimally as they need to. At Aero-Dynamiek we offer our services to a wide range for the following industries:

## CONSTRUCTION



**COMMERCIAL**  
Malls | Offices  
**SPORTS FACILITIES**  
**PUBLIC BUILDINGS**



## HEALTHCARE

Hospitals  
(patient wards & operating theaters)  
Private clinics  
Retirement homes  
Pharmacies



## INDUSTRY DATA CENTER



**MANUFACTURING**  
Pharmaceutical companies  
Military  
Food & Agro





# Commissioning Services

"70% of buildings are not performing at their optimum levels."



## Commissioning

**When a building's HVAC, water, air and electrical systems are not functioning optimally, many problems arise from an unhealthy indoor environment to increased energy costs and carbon footprint.**

IMI Aero-Dynamiek provides top-of-the-line quality-focused commissioning services ensuring that all elements of a building are planned, designed, tested, operated, and maintained according to user needs and requirements. Their service is provided to support customers in controlling this building's performance. We can provide Commissioning Services during the planning and construction phase and in existing buildings requiring system maintenance.

**Integral Commissioning approach in four areas of expertise and focus:**

-  Building Envelope
-  Electrical Systems
-  Mechanical Systems
-  Plumbing Systems

Whether it is design review, site inspections, setting to work or testing, adjusting & balancing systems, our field service technicians have the knowledge and experience to support customers throughout the entire process to ensure optimal building efficiency and control.

Commissioning				
	Building Envelope 	Mechanical Systems 	Electrical Systems 	Plumbing Systems 
What we do?	<ul style="list-style-type: none"> <li>• Design review</li> <li>• Testing tightness of walls, floors and ceilings, air, water, sound and heat transfer</li> </ul>	<ul style="list-style-type: none"> <li>• Design review</li> <li>• Testing, Adjusting and Balancing of HVAC systems</li> </ul>	<ul style="list-style-type: none"> <li>• Design review</li> <li>• (Safety) testing of lighting systems and power outlets</li> </ul>	<ul style="list-style-type: none"> <li>• Design review</li> <li>• Testing tapwater systems</li> <li>• Testing drainage systems</li> <li>• Testing drinkwater quality (e.g. legionella)</li> </ul>

“Extend your building’s lifespan with advanced performance testing”



Performance Testing Services



## Performance Testing

A building’s lifespan can range from 50 to 80 years; during its life, it will suffer natural degradation putting stress on its systems and affect their performance, which can lead to issues for its users. One way to slow down this degradation and manage any system problems is through Performance Testing.

At IMI Aero-Dynamiek, we believe that it is vital to the lifespan of a building to do regular performance testing to make sure all systems are always running according to users’ needs. Consistent Performance Testing can also ensure that building managers and owners control the building’s performance and react quickly when issues arise. We can run a set of tests that are unique to us due to our equipment and expertise.

Our expertise allows us to assess:

 Environmental Performance

 Energy Performance

By focusing on environmental performance, our experts can ensure optimal energy use by the systems and optimal comfort for users and provide transparency and control to the building management.

Performance Testing		
	Environmental Performance 	Energy Performance 
What we do?	<ul style="list-style-type: none"> <li>• Testing thermal, acoustical and visual comfort as well as indoor air quality and compare with user requirements</li> </ul>	<ul style="list-style-type: none"> <li>• Testing energy consumption and compare with user requirements</li> </ul>



Showing our Expertise

# MTC Poort Centraal Den Haag, Netherlands

**Project Type:** Testing and Performance Services

**Location:** Den Haag, Netherlands

### The Project

The project is in the city of Den Haag in the Netherlands, it is a large government building of 90,000m<sup>2</sup>. IMI Aero-Dynamiek won the project in January 2018, due to its expertise in plumbing and in health code regulations for plumbing and HVAC systems. As this is a service commissioning project, it is ongoing and IMI Aero-Dynamiek continues to provide Testing and Performance services for the client.

### The Hydronic Challenge

The challenge was the size of building, it required extensive testing to ensure legionella prevention and clean drinking water and to make sure the system met the requirements for its BRL6010 certification.

### The Solution

The main role of Aero-Dynamiek was to commission the whole plumbing system of the 90,000m<sup>2</sup> building to ensure it complied with the most current health code legislations ensuring the safety of the water system its users.

During the commissioning process they performed system flushings, temperature measurements,

system checks, water-sampling, placement of monitoring sensors, cleaning and disinfecting, as well as coordinated numerous maintenance jobs. This provided the client with an operational and performance qualification which ensured safe water quality.

To ensure legionella prevention IMI Aero-Dynamiek implemented a digital platform allowing the customer to have real-time management of all systems in a digital log. The log is available 24/7, and notifies the client of any maintenance the system might need as well as alerts to problems as soon as they arise. The team also checked all 1,100 water drinking points in the building to make sure they were safe to use.

The IMI Aero-Dynamiek team has an ongoing contract with the client to annually check the 330 valves in the system to prevent any possible flow issues.

**"We have done numerous projects, but your company has proven again to have the best practice."** – BAM Rotterdam

### Products Used

**IMI Aero-Dynamiek Testing and Commissioning Services**

# Meet the team



## HEALTHCARE



**Jeroen van Leuven**  
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Find out more



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