

## Datacenter – IVG40-CT CoolWater skid

### Type of industry

Cooling type and cooling towers: Datacenter cooling

### Before IVG installation

Evaporative capacity in MW	35 MW
Water evaporation	55 m3/hr max
Water consumption	65 m3/hr max
Cooling water thickening	6,0
Chemical consumption	15.000 kg a year
Discharge waste water on:	sewer

### After IVG installation

Evaporative capacity in MW	35 MW
Water evaporation in m3 / hr	55 m3/hr max
Water consumption in m3 / hr	62 m3/hr
Decrease water consumption in%	- 5%
Cooling water thickening (COC)	8,0
Chemical consumption	0 kg
Decrease chemical consumption in%	100%
Return on Investment	monthly savings -/- 38,6%

### IVG technology

Absorbed power	14 KW
Discharge water to	surface water



### About the customer

This datacenter is focused on stimulating innovation and helping their customers define and deliver their own unique vision for "the Edge". In Edge computing, data is processed by the device itself or by a local computer or server, rather than being sent to a data center. With this they are building the data center infrastructure of tomorrow, today. They have built numerous datacenters, including a growing number of regional and hyperscale solutions in North America, Europe and South America.

### First contact

The first contact came about via the Dutch Datacenter Association (DDA), the trade association for data centers in the Netherlands. They connect market-leading data centers and have a mission while doing so: to strengthen economic growth and to profile the data center sector towards the government, media and society.

Among other thing, the DDA focusses on Energy & Sustainability. Not everyone knows that data centers are leading the way in the transition to circular services. The sector is a leader in sustainable innovation and wants to make an active contribution. The DDA contributes to technical standards with which the data center industry can further distinguish itself in the Netherlands and abroad and they facilitate their members with information about relevant market developments during events and via media channels. Pathema met this datacenter during one of these events.

### Working together

Both partners recognized themselves in each other's values and the collaboration became a fact. The impactful and risk-free IVG technology was implemented with a transparent partnership. Even during a prolonged heat wave, the work could continue as usual, while the plant remained in operation, of course. Pathema has linked over 100 cooling towers, which all had their own water management scheme for replenishment and drainage, into one system. This makes water management a lot more manageable and huge savings have been achieved.