

*Independent  
Heating  
&  
Cooling*

ELEKTA





Elekta is an international medical-technology Group, providing meaningful clinical solutions, comprehensive information systems and services for improved cancer care and management of brain disorders. All of Elekta's solutions employ non-invasive or minimally invasive techniques and are therefore clinically effective, gentle on the patient and cost-effective.

They have facilities in Sweden, Finland and the UK, and it was the UK branch, located in Crawley, West Sussex, that invited Independent Heating to introduce climate control to their offices.

When specifying such a system to a working office, there are some very obvious hurdles to overcome in the planning stage – not least the requirement to work around a busy and dynamic environment whilst installing something in the region of 100 indoor units attached to several VRV (Variable Refrigerant Volume) systems.

Also, because of the layout of some of the larger open-plan locations, the requirements for heating and

cooling fluctuate across the width of the office. For example, the south facing areas are subject to direct sunlight and thus have a greater cooling requirement than, say, north facing areas. Yet, unusually, these two situations occur simultaneously in many of Elekta's open plan offices.

Independent Heating's installation engineers managed to work around the office workforce with minimal disruption by a careful scheduling of their requirements to the locations involved. Similarly, the problem of variable heating and cooling requirements was met by designing a system which had programmable output to each distinct zone, thus allowing a certain amount of 'tinkering' with the finished installation to meet the actual needs of Elekta's staff.

In short, we had to design it on paper whilst allowing a degree of adjustment on-site to allow for the discrepancy between the theoretical, computer generated requirements, and the more meaningful wishes of those that worked in the environment.





We like to think we got it right. Gary Hill, Elekta's Facilities Manager for the Crawley complex says "The installation went without a hitch, with very few (if any) problems. The engineers worked around our workforce with very little problem – in fact we were hardly aware that they were there, which is some achievement considering the size of the installation. Also, I was surprised at the lack of complaints about the temperatures once the job was finished. Everyone is different, and you always get someone who is too cold, or too hot, but in this case the system

really does seem to work. People are not aware that it is operating – until they go outside – when they either find out how hot it is in summer, or cold in the winter."

Climate control has come a long way since the bad old days of hot or cold spots, and we like to think our years of experience in designing systems has enabled us to take advantage of the latest technologies available. This contract required some clever solutions, but we like to think our experience enabled us to meet the challenge.

# IHC





*Various details of the external installation at Elekta's Crawley premises.*



### Technical spec

*Elekta, Crawley, West Sussex*

- 2 x Daikin RXYQ8M VRV II heat pump systems
- 1 x Daikin RXYQ10M VRV II heat pump system
- 1 x Daikin RXYQ12M VRV II heat pump system
- 1 x Daikin RXYQ14M VRV II heat pump system
- 2 x Daikin RXYQ16M VRV II heat pump systems
- 1 x Daikin RXYQ18M VRV II heat pump system
  
- 1 x Daikin RXYSQ6M Mini VRV II-S heat pump system
  
- 2 x Daikin 3MXS52B heat pump multi split systems
- 1 x Daikin 4MXS68B heat pump multi split system
  
- 6 x Daikin FAQ100 cooling only split systems
  
- 1 x Mitsubishi Electric PLA-RP2AA heat pump split system

*Whatever the problem – we have the solution*

**Independent  
Heating  
&  
Cooling**

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