

# TOSHIBA

Leading Innovation >>>

## Toshiba Solutions

Traditional department store – new extension

### Equipment:

Toshiba R410A VRF  
SMMS heat pumps  
Digital Inverter Split systems  
Interactive Intelligence –  
group control



*David Mann and Sons is a very traditional high street store*

### Application details

Manns, a traditional department store, in the suburban Surrey town of Cranleigh has been able to substantially extend its facilities thanks to a new VRF air conditioning system from Toshiba Air Conditioning.

Manns has served the local community since 1887 and provides everything from beds and curtains to tennis court rollers and a removals service. On a town centre site the store could only expand into its warehousing area, which could not have been occupied without substantial heating and cooling.

Extreme swings of temperature could be experienced in the single skin building. The insertion of a mezzanine floor also meant that downstairs cooling can be required quickly if the space fills with people. Upstairs in winter heating is almost always required, although in summer both areas need very responsive cooling.

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### Solution

The client was delighted with the speed of response of the Toshiba system in heating and cooling the space. Toshiba Projects Department was also able to support the contractor in rapidly confirming the answers to some queries on this potentially challenging installation.

In turn, the installation engineers were also delighted with the Toshiba system as it is designed to make installation as easy as possible – from the control panel based commissioning to the simple fixing system of the ceiling cassettes.

The system is a 95.2 kW 2-pipe SMMS heat pump system with three supplementary 12/14 kW Split systems. The nine ceiling cassettes are group controlled by the Toshiba Interactive Intelligence control system.

The installation is very quiet and efficient. The outdoor elements of the system are sited at the rear of the store, very close to neighbouring houses but there has been no disturbance remarked on by anyone locally.

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*Air conditioning enables the store to use its former warehouse as sales space*



*The outdoor units sited in the yard are too quiet for neighbours to notice them*

**TOSHIBA AIRCONDITIONING**

Advancing the **eco**-evolution