

Small and medium-sized businesses IT spaces are often unmonitored, unorganised, unsecured and space-constrained. Properly deployed physical IT infrastructure is critical.

**Here are 7 ways to optimise your small IT space.**

## 1 Manage & monitor multiple sites

Reduce downtime and avoid environmental damage with a vendor-neutral management system that allows you to view all physical locations through a single pane of glass. Critical alerts, surveillance video, environmental probes, and remotely controllable power distribution units (PDUs) or outlet strips enable you to make quick decisions and manage power remotely, 24/7.

## 2 Protect against power failures

Uninterruptible power supply (UPS) units protect critical equipment and maintain availability during scheduled and unscheduled power outages. Protecting against power surges, potential data loss, and lost revenue from power outages.

## 3 Use scalable power & cooling

Respond to changing IT needs and improve efficiency by using scalable systems to rapidly increase or decrease capacity as needed for power management. By rightsizing you can lower your capital outlays.

## 4 Take advantage of field upgrades

Use field-upgradable or buy-up enhancements in your spaces, such as the option of adding remote management to a pre-installed device. This makes new functions more cost-effective without requiring a large capital expense.

**Powerhive™ is a soundproofed 'Micro Data Centre' which allows for IT deployment wherever and whenever it is needed, saving space, cost and deployment time.**

## 5 Start monitoring energy use

Install equipment to constantly monitor energy use regardless of whether or not you are required to report it. This helps you to stay green and make energy-efficient decisions in the future, which can help reduce your operational expenditure over time.

## 6 Using non-dedicated IT space

In order to deploy in a non-dedicated space, use a soundproofed rack solution, like **Powerhive™** from Hanley Energy. Soundproof, self-contained enclosure solutions can include everything you may need for housing reliable IT deployment in any limited space.

## 7 Deploy pre-installed equipment

Purchase racks and enclosures with pre-installed equipment. This ensures that equipment is pre-tested and validated beforehand, saving installation time and confusion.

**Just plug it in and turn it on.**



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## Sample Challenge

### EQUIPMENT

The equipment deployed in this sample is based on a >60 person office with 8-9 servers, switching, patching, UPS, KVM and tape back-up.

### SOLUTION

The model used in this example is **Powerhive™ 38U**. The power consumption is 101 watts and cable access is at the top & bottom rear.

### RESULTS

**The physical capacity for 38 rack spaces. Integrated PDU of 12 IEC outlets. A max thermal load of 3.6kW and noise reduction of 98%.**



Our comparison of Powerhive™ with a server room shows even more benefits.

	Powerhive™ 38U	Server Room/Wiring Closet
<i>Infrastructure budget</i>	<b>Starts from \$6,520</b>	<b>\$13,040 to \$21,730</b>
<i>Typical floor space</i>	<b>9.6 square feet</b>	<b>96.8 square feet</b>
<i>Equipment power draw</i>	<b>3.6kW</b>	<b>3.6kW</b> (limited for comparison)
<i>Typical electrical usage</i>	<b>Ventilation fans 0.1kW</b>	<b>Aircon 3.6kW</b> (1:1 power to cooling ratio)
<i>Fault tolerance</i>	<b>Very high</b> Uses ambient office air (with or without office comfort aircon - not required in large space). Large body of room air - long overheat time in event of building aircon failure. Simple, hot-swappable fan modules which are less complex than aircon, have an average 'life of service' of >8 years.	<b>Very low</b> Fully reliant on dedicated room aircon. Servers overheat and shut down if it fails. Small body of room air - short overheat time. Restoration requires specialist engineer call-out.
<i>Deployment timetable</i>	<b>2 - 3 weeks</b>	<b>3 - 6 months</b>
<i>Deployment resources</i>	<b>Available 'off the shelf'</b> Delivered fully-built, ready to use, on user friendly pallet, fits through standard doorways. No red-tape, hassle, plumbing or ducting - just wheel it in to position, plug it in and get going.	<b>Internal resources needed for planning</b> Internal resources needed for planning. Landlord approval drawings and timescales. Landlord can be a problem in old buildings. Construction disruption and lead time. Aircon machinery and ducting lead time.
<i>Scalability</i>	<b>Add another Powerhive™ 38U, 24U, 18U &amp; Mini</b>	<b>Limited to the size of the room</b>
<i>Portability</i>	<b>Take it with you</b> As you grow and move change its position in the office easily. Transport your IT without hassle and use the PowerHive to keep your IT portable.	<b>Sunk cost not recoverable if you move</b> Landlord requires restoration of premises to original condition which results in new costs.