



i~Con
MODULAR DATA CENTER®

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MODULAR AND CONTAINERIZED DATA CENTER
DESIGN, ENGINEERING, BUILD, AND CONSULTING SERVICES



i-CON MODULAR DATA CENTER[®]

• IT • POWER • COOLING • SOLUTIONS

The need for businesses to rapidly increase IT capacity coupled with the need to decrease capital and operational expenditures has resulted in a new species of data center. The traditional brick and mortar data center still lives and prospers, however, the modular data center has arrived.

i~Con Modular Data Centers[®] are built from standard ISO shipping containers, customized with the key attributes of a standard brick and mortar data center. This approach is incredibly rapid to deploy and significantly more cost effective yet still flexible and servicable.

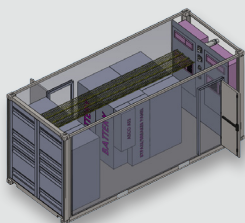
As an end to end solutions provider of modular data center and mission critical facilities, PDI offers a wide range of flexible solutions whether you need an ultra portable low density communications hub to a high-density High Performance Computing (HPC) environment. Our integrated team of engineers, project managers and in-house manufacturing enables solutions to be developed as stand alone systems, integrated into existing facilities or co-located in lease-based container buildings.

- **FAST DEPLOYMENT** - i~Con Modular Data Centers[®] can be deployed in as fast as 12-18 weeks whereas traditional brick-and-mortar solutions can take as long as 12-24 months.
- **REDUCED CAPEX** - Build as you need approach at the container and rack levels as well as optimize real estate resources.
- **REDUCED OPEX** - Achieve increased efficiencies utilizing best-of-breed container and rack based cooling options.
- **PLUG AND PLAY** - Off-site construction of structures are ready to be installed on-site as well as relocated or deployed to other locations.
- **PROJECT MANAGEMENT** - Reduce risks associated with traditional building construction leveraging pre-fabricated modules and CAD based modeling.
- **FLEXIBLE** - Adaptable to multi-tier capabilities and changing IT technologies.
- **SERVICABLE** - Rolling racks, flexible cable trays, and modular components make field based service simple.
- **FULLY INTEGRATED** - From a single container deployed in a colocation facility to a multi-container stand alone build-out, your i~Con Modular Solution includes 100% of all components needed to operate, monitor and manage a highly efficient data center.
- **CUSTOMIZABLE** - every customer has unique data center requirements, and this is why the i~Con Modular Data Center[®] has been designed with maximum flexibility in mind. Changes to a container's density, power, cooling or accessibility can all have a direct impact on each other, but i~Con's unique design makes it simple to tailor a solution for any customer's needs while being optimized for maximum efficiency.
- **A TRUSTED NAME** - for 30+ years PDI has served the mission critical space with leading edge power quality products. That same level of engineering and innovative design is leveraged into each i~Con Modular Data Center[®].

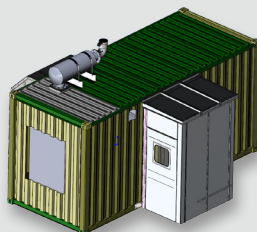
I-CON MODULAR DATA CENTERS

	HIGH DENSITY				LOW DENSITY		
SIZES	10 Foot	20 Foot	40 Foot	53 Foot	10 Foot	20 Foot	40 Foot
RACKS	3	7	14	19	5	6	12
RACK U	48	48	48	48	42	48	48
TOTAL AVAILABLE U	144	336	672	912	210	288	576
WEIGHT - RACK MAX	2500 lbs. (1134 kg) of IT gear				2500 lbs. (1134 kg) of IT gear		
RACK SHOCK & VIBRATION	Up to 3000 lbs @ 5G				Up to 3000 lbs @ 5G		
SEISMIC BRACING	Rack base braced by spring-type isolators				Rack base braced by spring-type isolators		
CABLE MANAGEMENT	(3) Flexible Cable Chains per rack				(3) Flexible Cable Chains per rack		
NUMBER OF PDUS PER RACK	Maximum of Four (4)				Maximum of Four (4)		
MAX IT CAPACITY PER RACK	Up to 25 kW per Rack				Up to 10 kW per Rack		
POWER DISTRIBUTION	PowerWave Bus Systems - 250 - 800A				PowerWave Bus Systems - 250 - 800A		
POWER REDUNDANCY	A or A/B Feeds				A or A/B Feeds		
EPO BUTTONS	Two				Two		
FIRE DETECTION	Fenwalnet 6000				Fenwalnet 6000		
FIRE SUPPRESSION	NOVEC 130 Standard (FM200 Optional)				NOVEC 130 Standard (FM200 Optional)		
RACK FIRE DETECTION	Optional Photoelectric Detector				Optional Photoelectric Detector		
COOLING TYPE	Rack Based SCU - DynaCool On-Demand Cooling System™				Environmental Control Unit - ECU		
TOTAL COOLING CAPACITY	75 kW	175 kW	350 kW	500 kW	35 kW	42 kW	63 kW
TOTAL COOLING CAP. REDUNDANT	Optional Redundant Chillers and Rack Fans				17 kW	21 kW	42 kW
INSULATION R RATING	R12 Air Gap Insulation				R12 Air Gap Insulation		
LENGTH	9' 10"	19' 11"	40'	53'	9' 10"	19' 11"	40'
WIDTH	8 ft. (244 cm)				8 ft. (244 cm)		
HEIGHT	9 ft. 6 in. (290 cm)				8 ft.(244 cm)	9 ft. 6 in. (290 cm)	
LIGHTING	LED lights in hot and cold aisles				LED lights in hot and cold aisles		
DOORS	Two Full Size	Two Full Size	Two Full Size	Two Full Size	Four Full Size	One Full Size One Emergency Hatch	One Full Size One Emergency Hatch

I-CON POWER CONTAINERS



UPS CONTAINER



GENSET CONTAINER

A wide variety of UPS, Gensets, and Switchgear can be incorporated into our containers. PDI's PowerCube HE high efficiency line of transformers can also be integrated as well. These, like our IT containers, can be customized to meet the tier rating and long term expansion of your mission critical facilities.

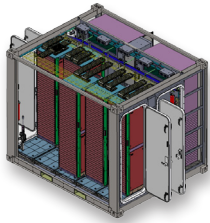
I-CON COOLING CONTAINERS



CHILLER CONTAINER

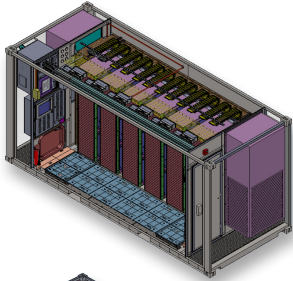
Load optimized chillers facilitate efficient operation of your mission critical facility. Integrated economizers enable the chiller to operate in a free-air mode taking advantage of the outdoor wet-bulb temperatures. Optional redundant solutions and integrated monitoring ensures your facility is available 24/7.

Low Density UP TO 10 KW PER RACK



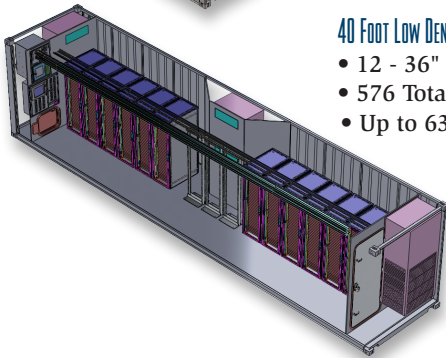
10 Foot Low Density IT Container

- 5 - 24" 42U Racks
- 210 Total U
- Up to 35 kW Cooling Capacity



20 Foot Low Density IT Container

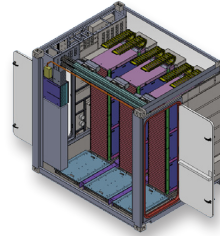
- 6 - 36" 48U Racks
- 288 Total U
- Up to 42 kW Cooling Capacity



40 Foot Low Density IT Container

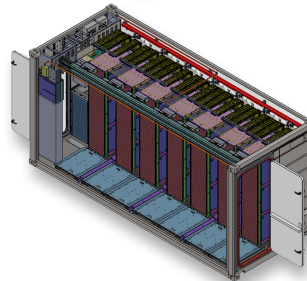
- 12 - 36" Racks
- 576 Total U
- Up to 63 kW Cooling Capacity

High Density UP TO 25 KW PER RACK



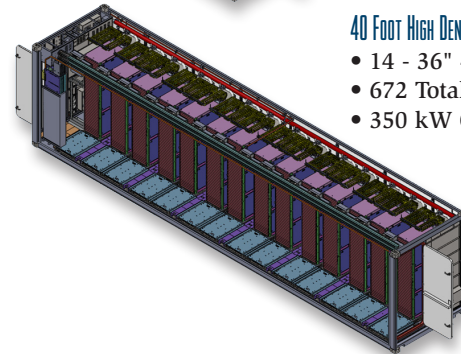
10 Foot High Density IT Container

- 3 - 36" 48U Racks
- 144 Total U
- 75 kW Cooling Capacity



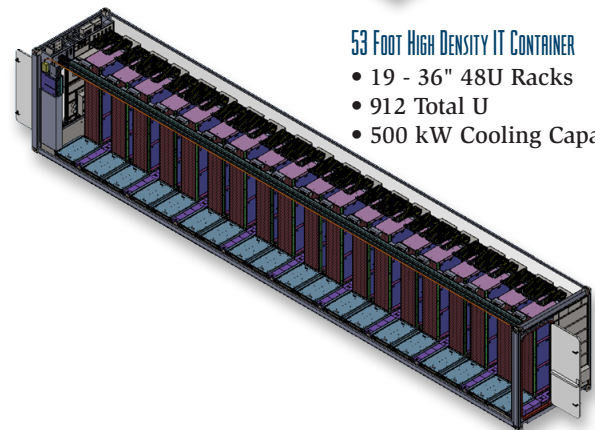
20 Foot High Density IT Container

- 7 - 36" Racks, 336 Total U
- 336 Total U
- 175 kW Cooling Capacity



40 Foot High Density IT Container

- 14 - 36" 48U Racks
- 672 Total U
- 350 kW Cooling Capacity



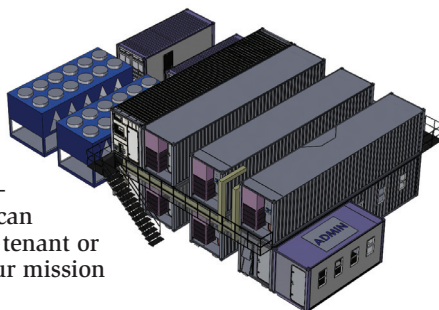
53 Foot High Density IT Container

- 19 - 36" 48U Racks
- 912 Total U
- 500 kW Cooling Capacity

TURNKEY PRE-INTEGRATED SOLUTIONS

- IT
- Power
- Cooling
- Admin

This pre-engineered solution incorporates a total of seven IT containers, two chillers, one power and two admin containers. As an end-to-end solution provider we can incorporate most any design tenant or specification required for your mission critical facility.



LET US HELP YOU CUSTOMIZE YOUR SOLUTION



smiths interconnect

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