

April 20, 2017



# Product Data Sheet


## Coverged Micro Data Center





# Koelkast 5500AC | Converged Micro Data Center




Revolutionary converged infrastructure platform for high density computing of modern day rackmount servers to operate in safe, reliable, and controlled environment by delivering cooling and management in self-contained rack enclosure.


 **Front to Back Airflow.** Airflow has been designed for rackmount server with front to back high performance requirements. Which help reduce power consumption of the cooling enclosure to fully optimize the airflow of the servers within the rack.

 **FiXible™ compressor.** Provide responsiveness to dynamic and redundancy to high load demand of your computing requirements, which help stabilize the operating temperature within the enclosure to maintain constant range for optimum server performance.

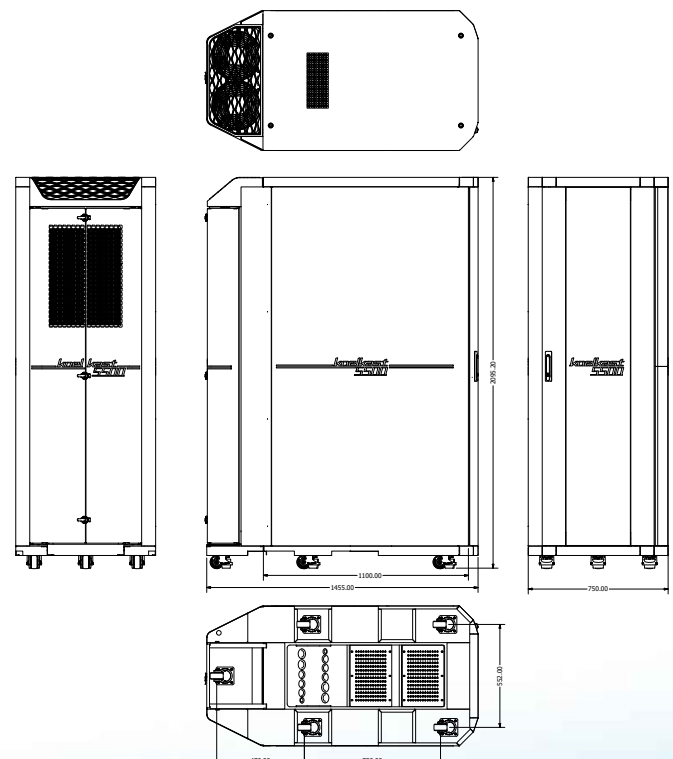
 **Energy Savings.** Perfectly insulated with polypropylene material, the energy required to cool down the internal IT equipment much more efficiently, reducing the energy loss through close enclosure containment to a minimum. This results in lower operational costs to run Koelkast compared to traditional server room, as the cooling is 100% used on the IT equipment and servers.

 **Easy & rapid deployment.** Koelkast means refrigerator in Dutch, it has been designed to be delivered already fully prefabricated as a complete solution in the smallest possible space and does not require an onsite water drainage system, thus reducing installation time and is easily transported for future relocation.

 **Management.** The controller takes will continuously monitor and control physical parameters of the cooling operations. Customer could use the cellular function to be alerted via whether there are any critical issues.

 **Enterprise.** Koelkast are robust, flexible racks especially for server demand. Efficient climate control solutions in a range of designs and capacities.


Features	Koelkast 5500AC
Form factor	19 Inch 42U
Cooling Capacity	5500 Watt 18000 BTU (9000 BTUx2)
Airflow	Front-Back
Humidity	Controlled
Refrigerant	R134a Low Pressure
Cooling Scheme	Precision FiXible™ Compressor Air Cooled
Drainage	Evaporative Dry Up System Automatic Water Pump
Power Supply	220V/1P/50Hz 12.0A Single
Internal Circuit	AC
Compressor Speed	Dynamic (1) + Fixed (1)
Compressor System	Inverter + Rotary
Temperature Setting Range	25-35 °C
Backup System	Emergency Ventilation
Operation Control	Touch screen panel
Dimension	Width: 750 mm Depth: 1455 mm Height: 2100 mm
Physical	Weight 360 kg Material Structure: Sheet metal forming Surface Protection: Powder coating Caster: Polyurethane wheel
Features	LED Downlight Shelf: 1 Fix shelf, 1 Slide shelf





# Koelkast 4500AC | Converged Micro Data Center




Revolutionary converged infrastructure platform for high density computing of modern day rackmount servers to operate in safe, reliable, and controlled environment by delivering cooling and management in self-contained rack enclosure.


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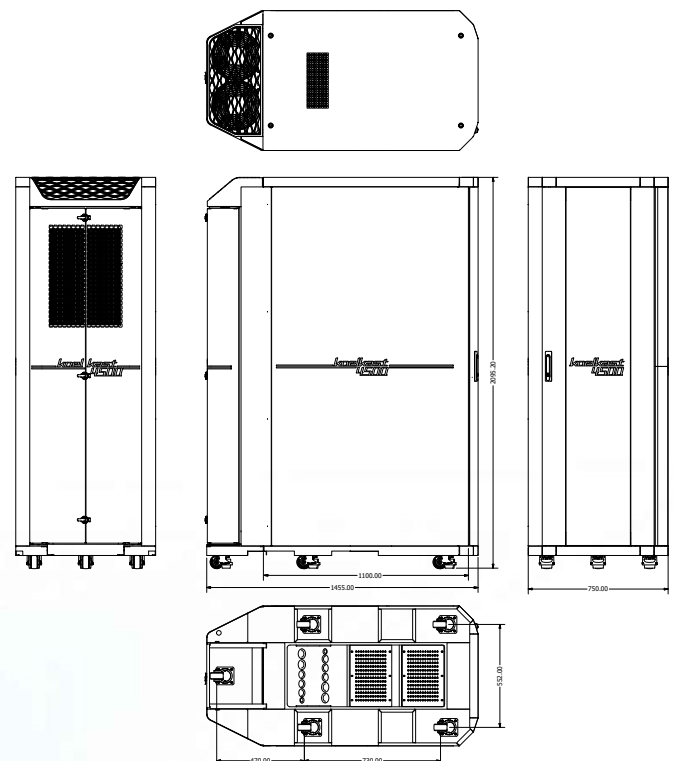
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Features	Koelkast 4500AC
Form factor	19 Inch 42U
Cooling Capacity	4500 Watt 15000 BTU (7500 BTUx2)
Airflow	Front-Back
Humidity	Controlled
Refrigerant	R134a Low Pressure
Cooling Scheme	Precision FiXible™ Compressor Air Cooled
Drainage	Evaporative Dry Up System Automatic Water Pump
Power Supply	220V/1P/50Hz 8.0A Single AC
Internal Circuit	AC
Compressor Speed	Dynamic (1) + Fixed (1)
Compressor System	Inverter + Rotary
Temperature Setting Range	25-35 °C
Backup System	Emergency Ventilation
Operation Control	Touch screen panel
Dimension	Width: 750 mm Depth: 1455 mm Height: 2100 mm
Physical	Weight 350 kg Material Structure: Sheet metal forming Surface Protection: Powder coating Caster: Polyurethane wheel
Features	LED Downlight Shelf: 1 Fix shelf, 1 Slide shelf



# Frigo 3500v2 | Converged Micro Data Center



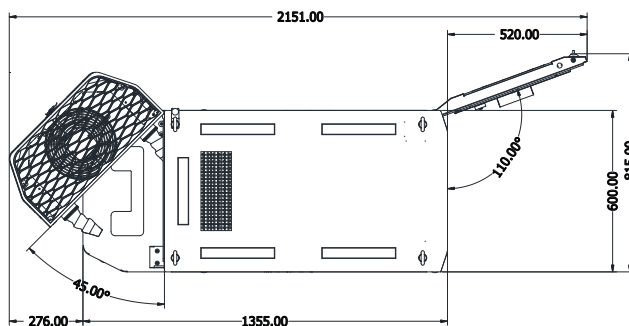
Revolutionary converged infrastructure platform for branch IT and network equipment to operate in safe, reliable, and controlled environment by delivering cooling and management in self-contained rack enclosure.

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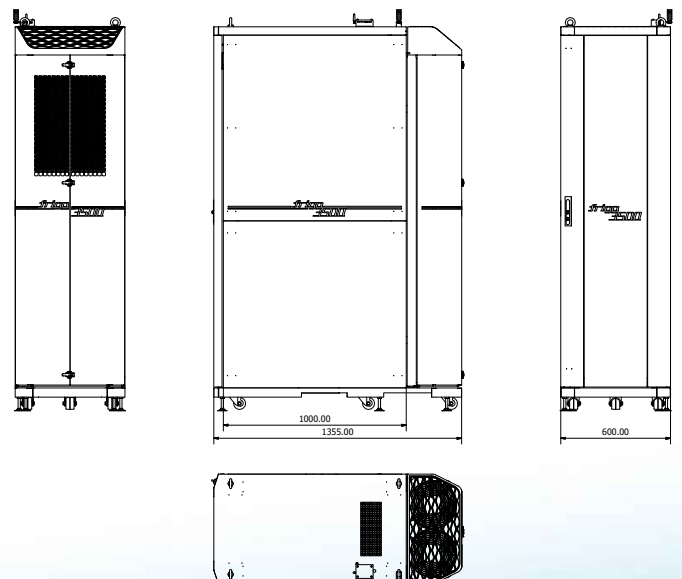
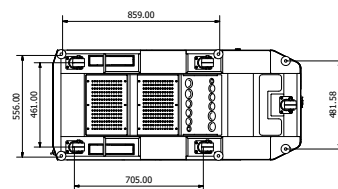
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**Enterprise.** Frigo are robust, flexible racks especially for server and network technology to need business demand. Efficient climate control solutions in a range of designs and capacities. No need for expensive upgrades to existing premises.



Features	Frigo 3500v2
Form factor	19 Inch 42U
Cooling Capacity	3500 Watt 12000 BTU
Airflow	Mixing
Humidity	Controlled
Refrigerant	R134a Low Pressure
Cooling Scheme	Precision Dynamics Compressor Air Cooled
Drainage	Evaporative Dry Up System Automatic Water Pump
Power Supply	220V/1P/50Hz 6.5A Single
Internal Circuit	AC
Compressor Speed	Dynamic (1)
Compressor System	Inverter
Temperature Setting Range	25-35 °C
Backup System	Emergency Ventilation
Operation Control	Touch screen panel
Dimension	Width: 600 mm Depth: 1355 mm Height: 2100 mm
Physical	Weight 300 kg Material Structure: Sheet metal forming Surface Protection: Powder coating Caster: Polyurethane wheel
Features	LED Downlight Shelf: 1 Fix shelf, 1 Slide shelf



# Frigo 2500v2 | Converged Micro Data Center



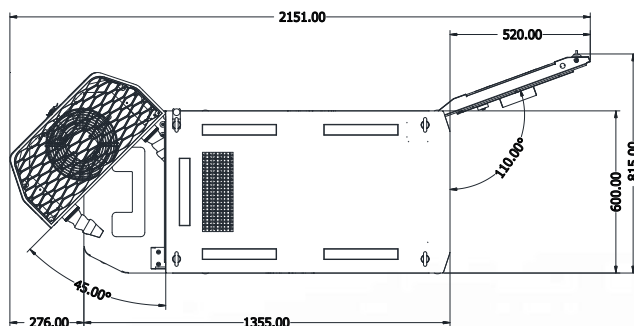
Revolutionary converged infrastructure platform for branch IT and network equipment to operate in safe, reliable, and controlled environment by delivering cooling and management in self-contain rack enclosure.

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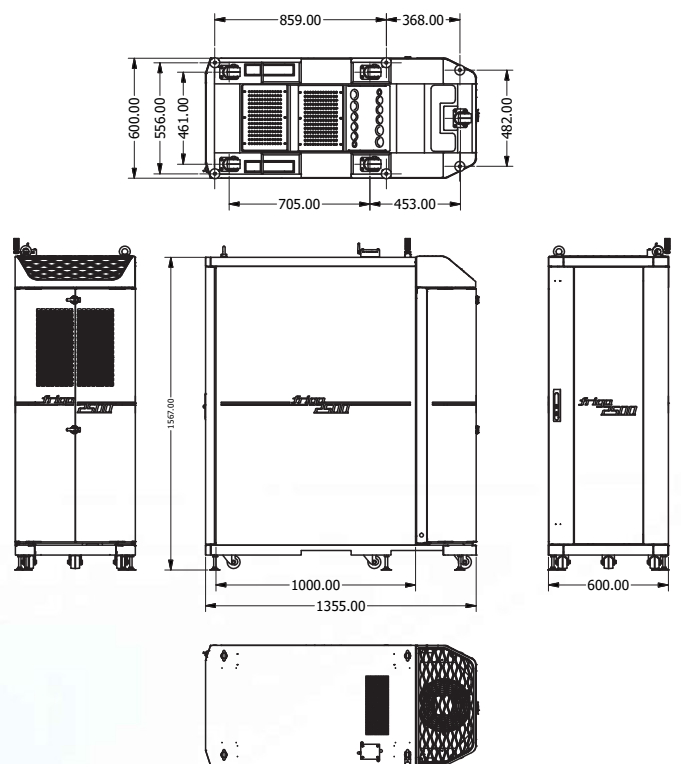
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Features	Frigo 2500v2
Form factor	19 Inch 30U
Cooling Capacity	2500 Watt 9000 BTU
Airflow	Mixing
Humidity	Controlled
Refrigerant	R134a Low Pressure
Cooling Scheme	Precision Dynamics Compressor Air Cooled
Drainage	Evaporative Dry Up System Automatic Water Pump
Power Supply	220V/1P/50Hz 5.0A Single
Internal Circuit	AC
Compressor Speed	Dynamic (1)
Compressor System	Invertor
Temperature Setting Range	25-35 °C
Backup System	Emergency Ventilation
Operation Control	Touch screen panel
Dimension	Width: 600 mm Depth: 1355 mm Height: 1567 mm
Physical	Weight 220 kg Material Structure: Sheet metal forming Surface Protection: Powder coating Caster: Polyurethane wheel
Features	LED Downlight Shelf: 1 Fix shelf, 1 Slide shelf



# Frigo 3500AC | Converged Micro Data Center



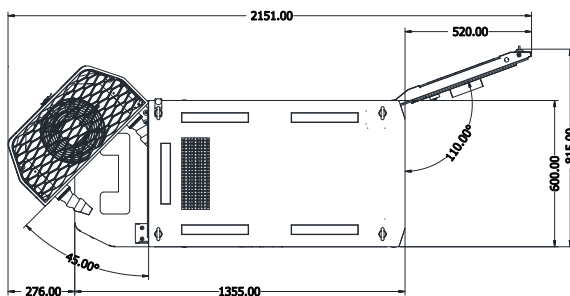
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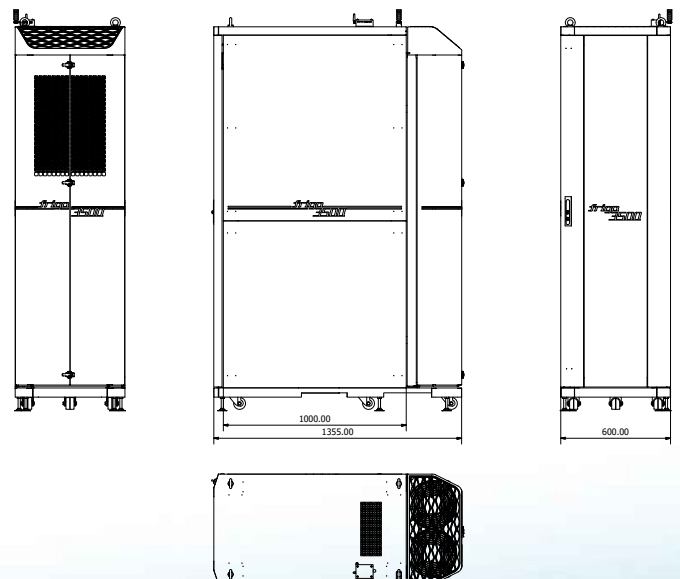
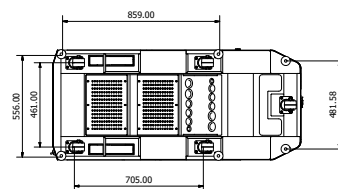
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Features	Frigo 3500AC
Form factor	19 Inch
	42U
Cooling Capacity	3500 Watt
	12000 BTU
Airflow	Mixing
Humidity	Monitoring
Refrigerant	R134a Low Pressure
Cooling Scheme	Conventional
	Fixed Compressor
	Air Cooled
Drainage	Evaporative Dry Up System
	Automatic Water Pump
Power Supply	220V/1P/50Hz
	6.5A
	Single
Internal Circuit	AC
Compressor Speed	Fixed (1)
Compressor System	Rotary
Temperature Setting Range	25-35 °C
Backup System	Emergency Ventilation
Operation Control	Touch screen panel
Dimension	Width: 600 mm
	Depth: 1355 mm
	Height: 2100 mm
Physical	Weight 300 kg
	Material Structure: Sheet metal forming
	Surface Protection: Powder coating
	Caster: Polyurethane wheel
Features	LED Downlight
	Shelf: 1 Fix shelf, 1 Slide shelf



**RiverSync**



# Frigo 2500AC | Converged Micro Data Center



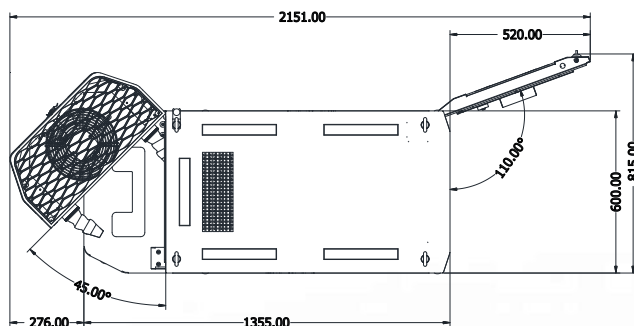
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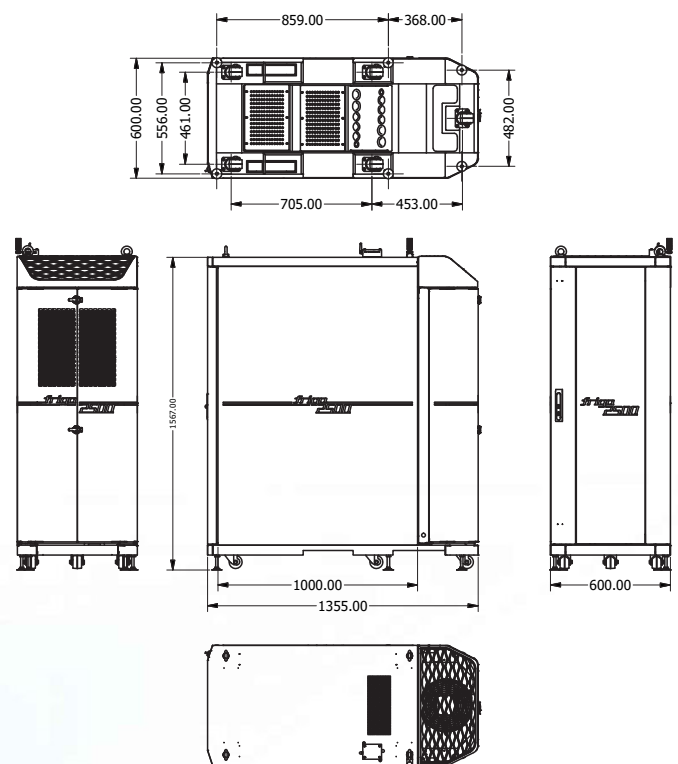
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Features	Frigo 2500AC
Form factor	19 Inch 30U
Cooling Capacity	2500 Watt 9000 BTU
Airflow	Mixing
Humidity	Monitoring
Refrigerant	R134a Low Pressure
Cooling Scheme	Conventional Fixed Compressor Air Cooled
Drainage	Evaporative Dry Up System Automatic Water Pump
Power Supply	220V/1P/50Hz 5.0A Single
Internal Circuit	AC
Compressor Speed	Fixed (1)
Compressor System	Rotary
Temperature Setting Range	25-35 °C
Backup System	Emergency Ventilation
Operation Control	Touch screen panel
Dimension	Width: 600 mm Depth: 1355 mm Height: 1567 mm
Physical	Weight 220 kg Material Structure: Sheet metal forming Surface Protection: Powder coating Caster: Polyurethane wheel
Features	LED Downlight Shelf: 1 Fix shelf, 1 Slide shelf





# Product Comparison

Features		Frigo 2500AC		Frigo 3500AC		Frigo 2500v2		Frigo 3500v2		Koelkast 4500AC		Koelkast 5500AC	
Form factor		19 inch		19 inch		19 inch		19 inch		19 inch		19 inch	
		30U		42U		30U		42U		42U		42U	
		2500 Watt		3500 Watt		2500 Watt		3500 Watt		4500 Watt		5500 Watt	
Cooling Capacity		9000 BTU		12000 BTU		9000 BTU		12000 BTU		15000 BTU		18000 BTU	
										(7500 BTUx2)		(9000 BTUx2)	
										Compressor			
Redundancy										Compressor			
Airflow				Mixing						Front-Back			
Humidity		Monitoring				R134a Low Pressure				Controlled			
Refrigerant													
Cooling Scheme		Conventional								Precision			
		Fixed Compressor				Dynamics Compressor							
						Air Cooled				FIXible™ Compressor			
Drainage						Evaporative Dry Up System							
Power Supply						220V/1P/50Hz							
		5.0A		6.5A		5.0A		6.5A		8.0A		12.0A	
						Single							
Power Backup													
Internal Circuit						AC							
Compressor Speed		Fixed (1)				Dynamics (1)				Dynamics (1) + Fixed (1)			
Compressor System		Rotary				Invertor				Invertor + Rotary			
Temperature Setting Range						25-35 °C							
Backup System						Emergency Ventilation							
Operation Control						Touch screen panel							
Dimension		Width: 600 mm				Width: 600 mm				Width: 750 mm			
		Depth: 1355 mm				Depth: 1355 mm				Depth: 1455 mm			
		Height: 1567 mm				Height: 1567 mm				Height: 2100 mm			
Weight		220 kg		300 kg		220 kg		300 kg		350 kg		360 kg	
Power Consumption (Maximum)		1,185 Wh		1,693 Wh		1,225 Wh		1,293 Wh		1,915 Wh		2,175 Wh	

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