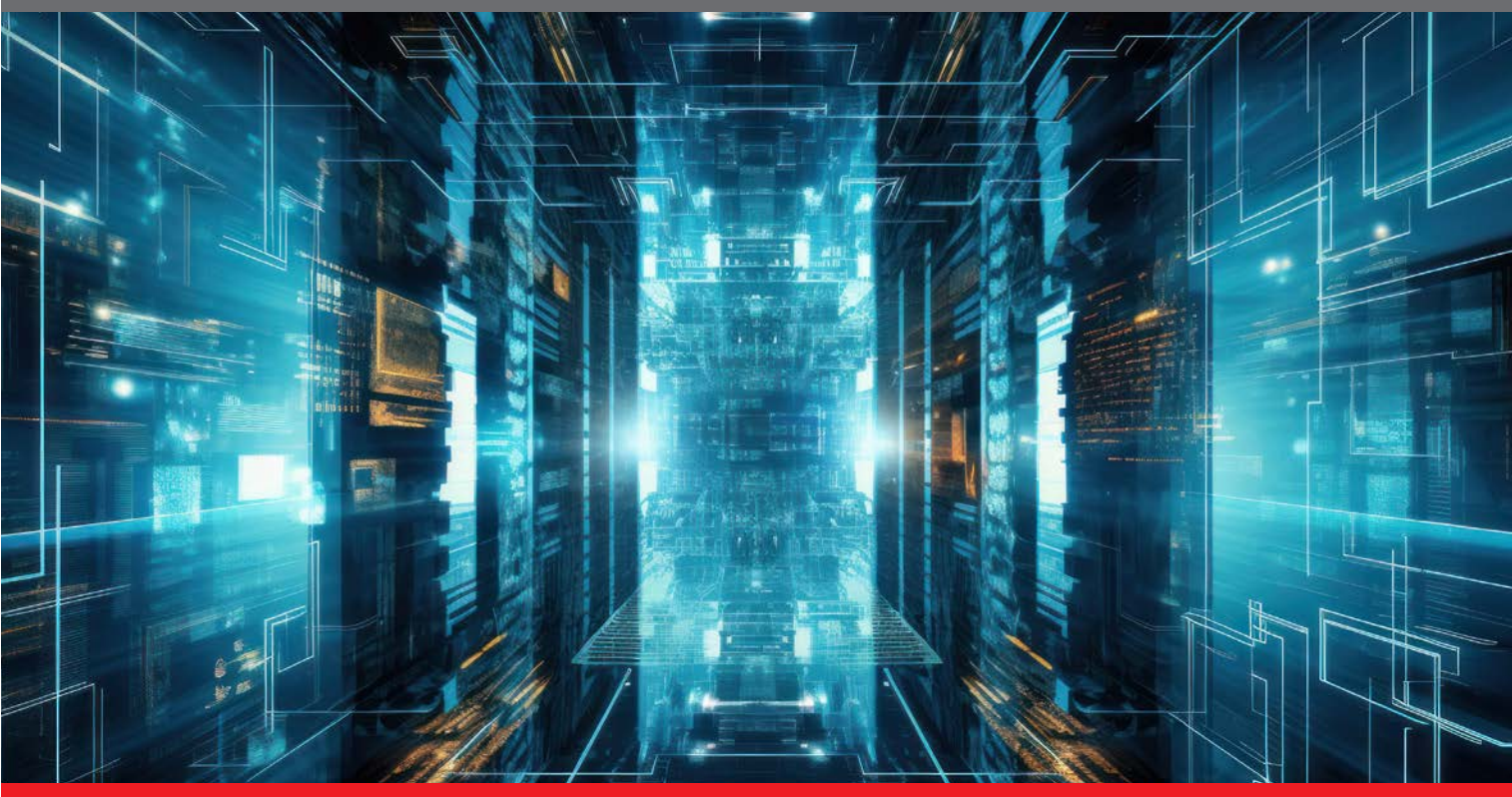


POLAR IT Rack Cabinet



POLAR

19" IT-RACK

Width: 600 mm
Depth: 1200 mm

IP55

Static Load Capacity: 1500 kgs.

**U Height Upper
Compartment: 26U, 32U**

Standards and Compliances:



ISO 9001
Quality Management System

EN 61587-1
Mechanical Structures for
Electronic Equipment

EN IEC 60297, 19" Mounting
EN IEC 60917 Overall Cabinet
Dimensions

EN/IEC 60529 - IP55 Ingress Protection
performance

EN/IEC 62262 - IK10 Mechanical
Impact Resistance

EIA/ ECA-310 (D/E) 19" 482,6 mm
and U 44,45 mm Height Sizing



CE conform to
EN 60950-1
Information Technology
Equipment, Safety,
Part-1: General Requirement

EN IEC 62368-1 Audio/Video, Information
and Communication Technology Equipment
Part 1: Safety requirements



Environment Friendly;
ISO 14001 Environmental
Management System
RoHS compliance
%100 Recyclable Material



ISO 45001
**The Occupational Health and Safety
Management System**

Standard Colors:



RAL 7035 Light Grey



RAL 9005 Black



RAL 7016 Anthracite Grey



The POLAR IT-RACK is a stand-alone Cabinet that creates strong cooling performance by creating its own hot and cold zones. This unique feature minimizes energy losses. Thanks to its closing panel for each 1U dimension, the POLAR IT-RACK can manage high temperature and low temperature zones successfully.



POLAR

19" IT-RACK

Width: 600 mm
Depth: 1200 mm

IP55

YOUR SPECIALIST IT REFRIGERATOR RACK

Features:

- Stand alone unit for your IT technologies.
- Plug & Play.
- IP55 Rated Rack
- Hot (Rear) / Cold (front) corridor structure.
- Two individual compartments for cooling and rack storage. For security each compartment has different keys. Bottom compartment is for cooling technology, where upper compartment is for IT. With different key options for security AC technicians have no access to IT section and IT technicians have no access to AC compartment.
- Strong and Sturdy. Maximum loading capacity: 1500 kgs.
- Schneider Electric ACRMD4KI... Rack Mount 5U cooling unit inside. 3,5KW / 7,0KW 10U offers alternatively with 2 pcs of ACRMD4KI with single plenum. Once second AC installed, no detachment or removal of the first one. Additional rear panel will be supplied loose with valves to connect second AC unit with second external condenser.
- Thermal insulation cover with aluminium foil on cold corridor section.
- Heavy duty specific castors with levelling feet installed. Each Castor has 400kg load rating while castors rolling.
- EMS Rack Mount Environmental Monitoring and Management System is readily installed, which allows remote monitor and control of the environmental situation of your IT refrigerator Rack.
- Sensors - Smoke, temperature, leakage, door detection sensors.
- Temperature monitored, Emergency Ventilation Fan System triggered by high temperature inside cabinet. Air blocker under the canopy to avoid shortcut of hot and cold air sections.
- Front Safety glass door is double layer glass to avoid condensation or damp on the glass of cold section.
- Lockable and removable side panels with handles on both compartments.
- Brushed Cable and Power Cord entry at rear side of AC section.
- Quick fix- easy installation copper pipe connection valves on the rear Blanking Panel. Second being supplied loose if second AC is requested.
- 6U ABS toolless blanking panels (snap breakable into 1U, 2U, 3U, 4U, 5U) installed all height in front side/cold section.
- Vertical 0 (zero U) or rack mount 1-2U multiple version of PDU from basic to managed can be selected and ordered as an accessory.
- Air Conditioning User Display (LCD) can be moved to any height inside cabinet IT section.

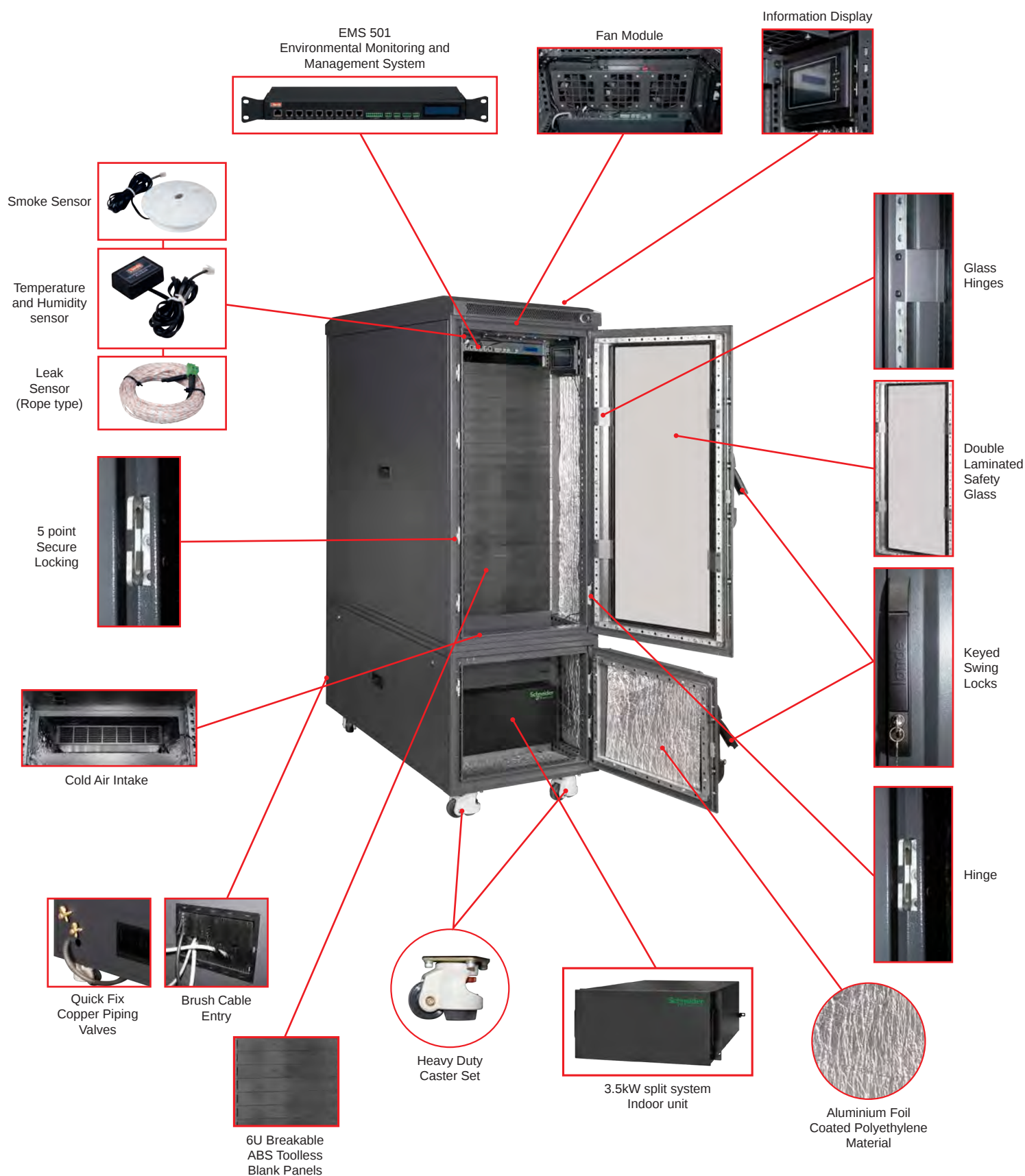


POLAR

19" IT-RACK

Width: 600 mm
Depth: 1200 mm

IP55

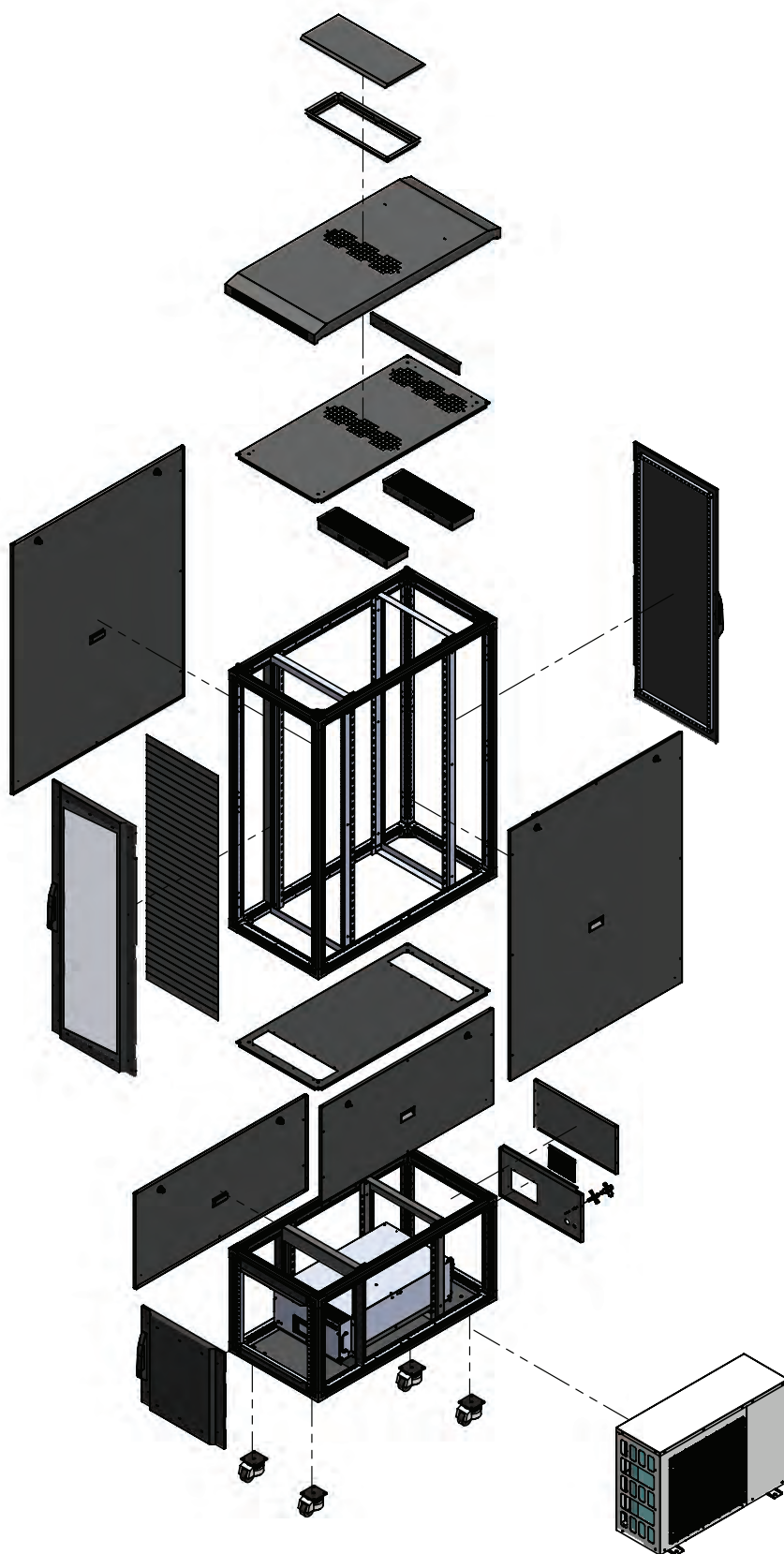


POLAR

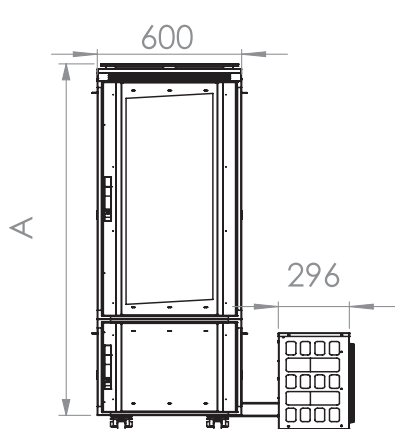
19" IT-RACK

Width: 600 mm
Depth: 1200 mm

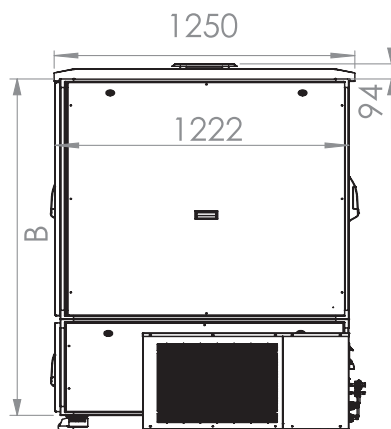
IP55
Exploded View



Exploded view

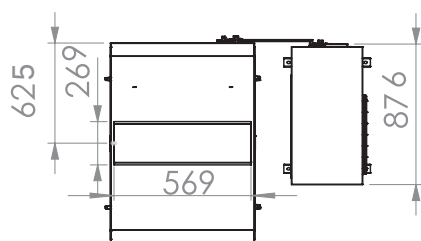


Front view

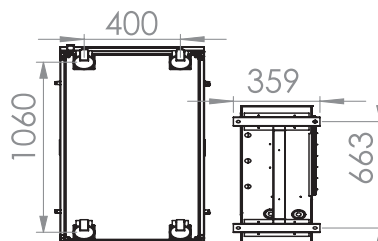


Side view

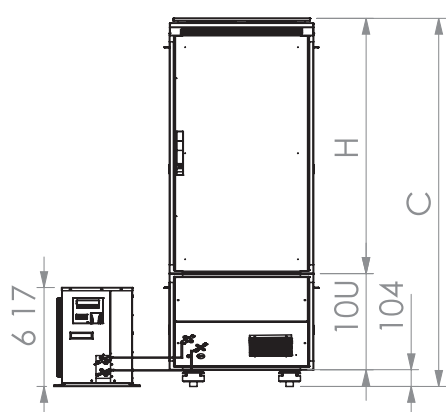
A, without the wheel	B, without the wheel and roof	C, all in	H
2005	1910	2105	26U
2205	2210	2305	32U



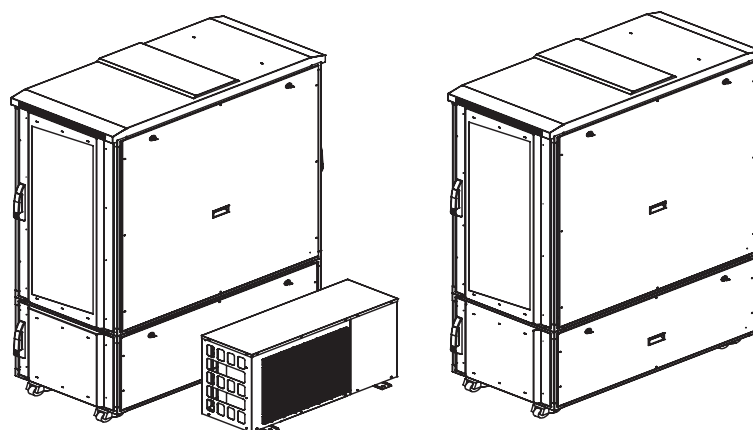
Top view



Bottom view



Rear view



Isometric view

19" Cooler Cabinets W=600 mm D=1200 mm

Product Number*	Product Description	Size WxDxH mm	H Size in U	H in mm	A mm	B mm	C mm	Width Overall mm	Width Rail to Rail	Depth Overall mm	Depth Shipping Conf. Rail to Rail mm	QTY IN PACKAGE	**Standard NET Weight of Product kgs
LN-YS26U6012-HDAA-CC	26U 19" Free Standing Cooler Cabinet W=600 mm D=1200 mm	600x1200x1854	26U	1400	2005	1910	2105	600	19"	1200	736	1	260
LN-YS32U6012-HDAA-CC	32U 19" Free Standing Cooler Cabinet W=600 mm D=1200 mm	600x1200x2305	32U	1600	2205	2110	2305	600	19"	1200	736	1	310

*CC= LG for Light Grey RAL 7035 & BL for Black RAL 9005 and AG for RAL 7016 Antracite Grey for customers to define while ordering.

**Add +46 kg air conditioner outdoor unit weight to the standard product weight.

***Air conditioner installation should be done by local services. The air conditioner is delivered with enough refrigerant gas (R410A) charged for the connection at a distance of 5 meters. The refrigerant to be added is calculated on the basis of the length and thickness of the lengthened pipe. The formula is: refrigerant to be added (kg) = 0.07 x L1 (Length of Ø9.52 copper pipe L1) + 0.045 x L2(Ø6.35 copper pipe length L2). If the calculated result is less than 0.1 kg, round it to 0.1 kg. (Please contact Lande for gas charging according to the pipe length).

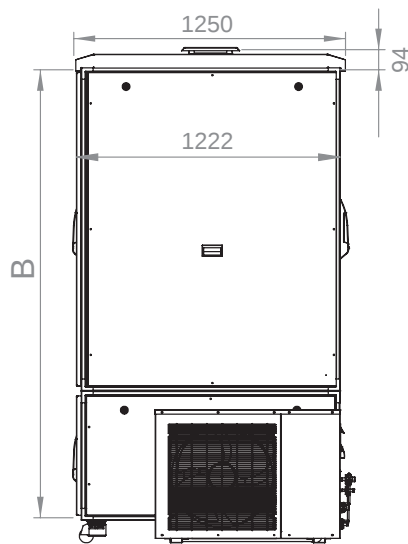
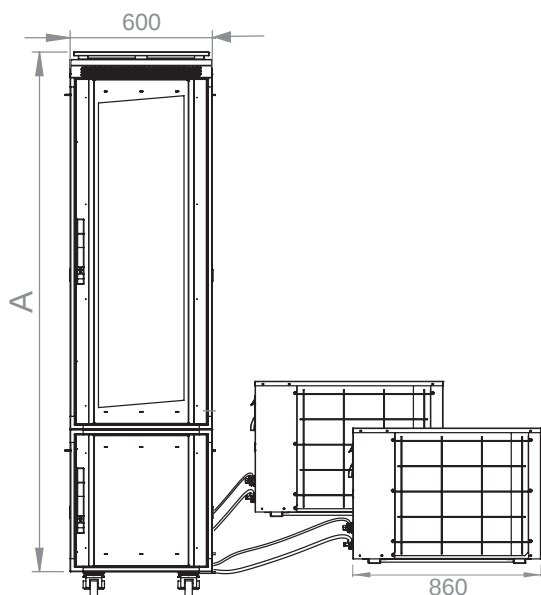
POLAR

19" IT-RACK

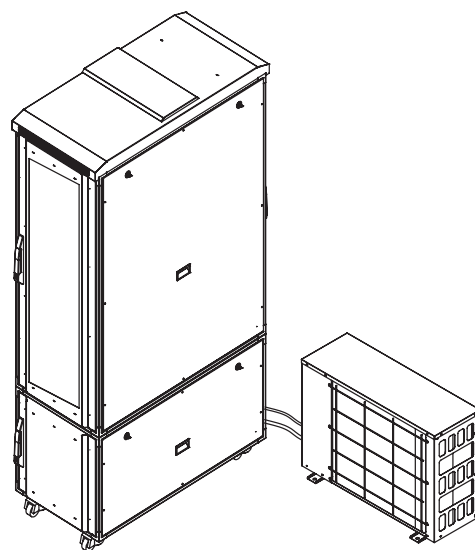
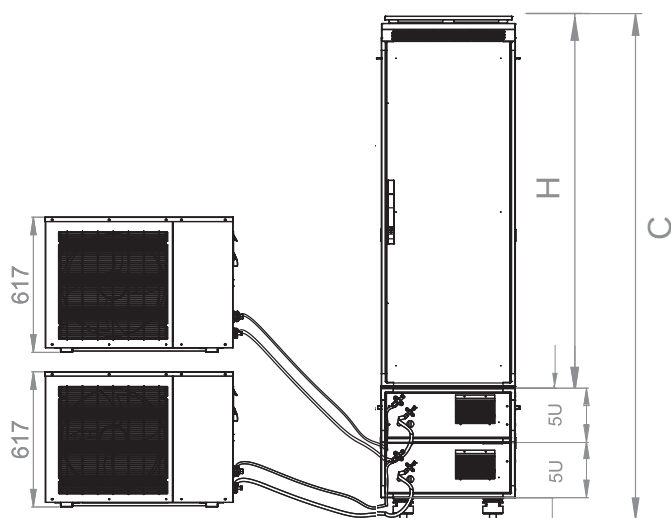
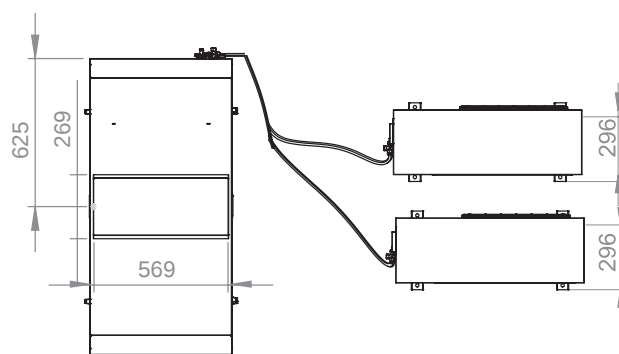
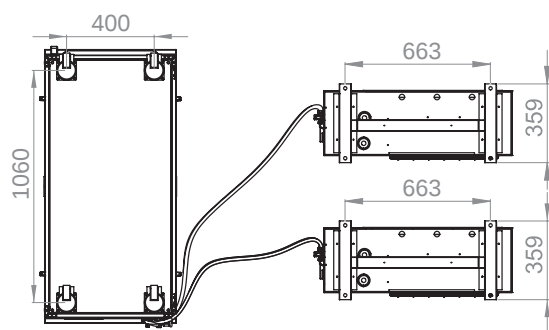
Width: 600 mm
Depth: 1200 mm

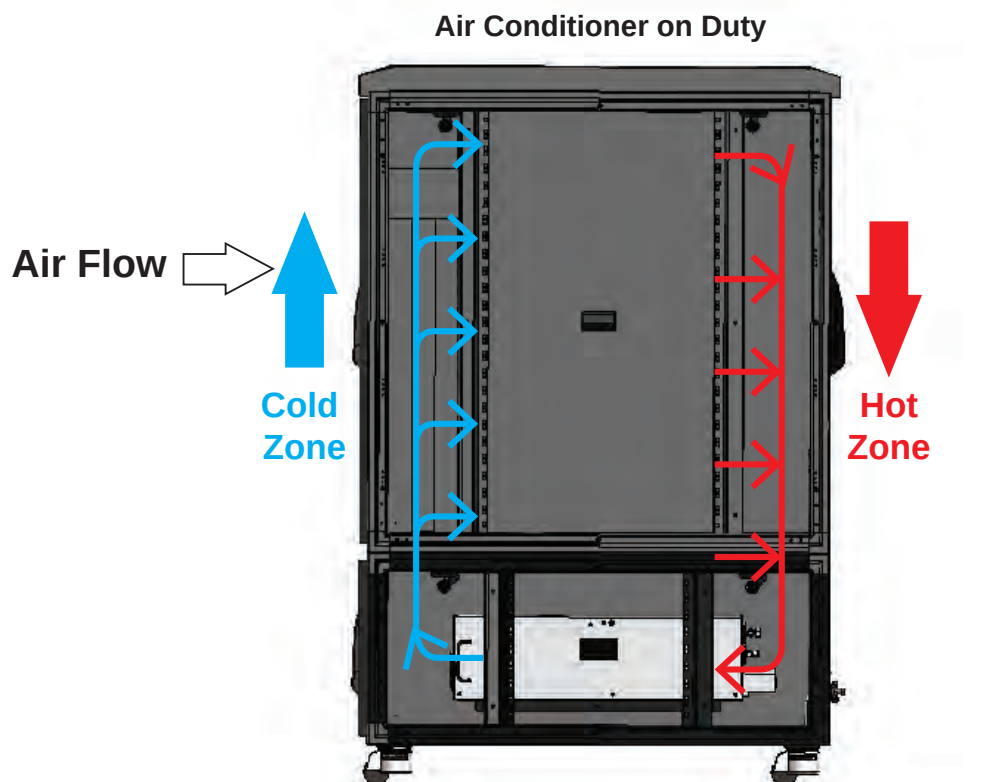
IP55

Double Air Conditioning



A	B	C	H
2005	1910	2105	26U
2205	2110	2305	32U



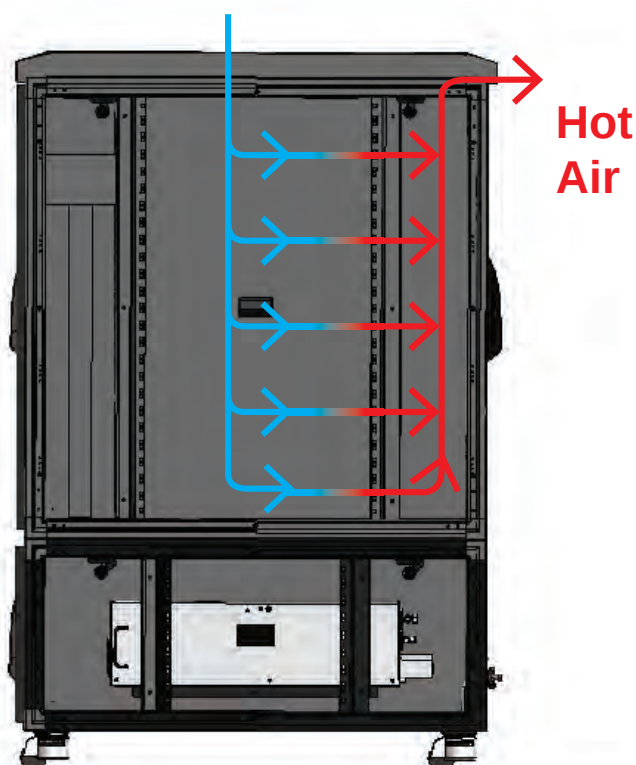


Front

Cold Air

Rear

Emergency Case
Activated Ventilation
System



Air Conditioning System Unit Performance



Indoor Unit	50 Hz Version
Commercial References	ACRMD4KI-1
Total Cooling Capacity	3.6 kW (12,300 BTU/hr)
Sensible Cooling Capacity*	3.5 kW (11,900 BTU/hr) Rated Power
Rated Power Input	200-240 V~, 1 Ph, 50 Hz
Rated Air Volume	700 m³/h (410 SCFM)
Number of Fans	1
IDU Fan Input Power	0.43 kW
Size of Liquid Pipe/Air Pipe Connection	9.52/12.7 mm (0.37/0.50 in.)
Energy Efficiency Ratio (EER)	2.5
Sound Pressure Level	62.5 dB(A)



Outdoor Unit	50 Hz Version
Commercial References	ACRMD4KI-2 (precharged)
Heat Exchange	6.3 kW
Rated Air Volume	1700 m³/h (1000 SCFM)
Input Power	1.00 kW
Number of Fans	1
Number of Compressors	1
Sound Pressure Level	51.1 dB(A)



ACAC10045 Air Conditioning User Display

Lead time	Special Order - Call for Quoted Lead Times
Provided equipment	User manual
Height	13.3 cm
Width	48.3 cm
Depth	8.4 cm
Net weight	1.3 kg
Mounting preference	No preference
Mounting mode	Not rack-mountable
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	20 cm
Package 1 Width	30 cm
Package 1 Length	30 cm
Package 1 Weight	1.5 kg
EU RoHS Directive	Not applicable, out of EU RoHS legal scope

Fan Module



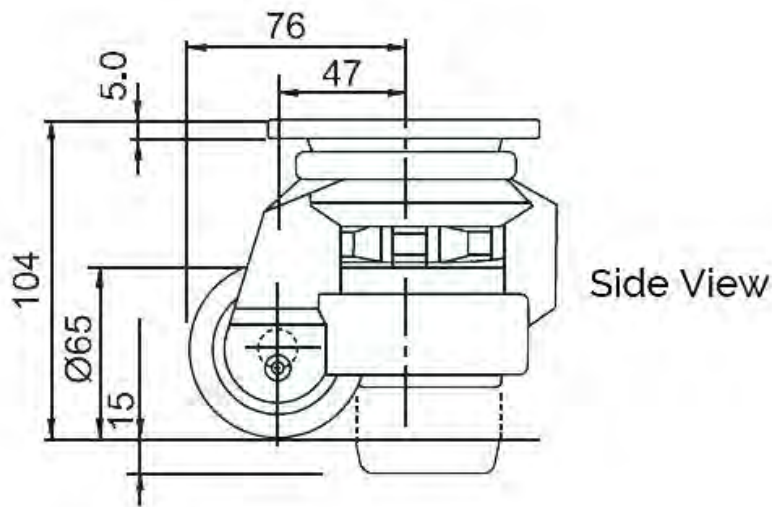
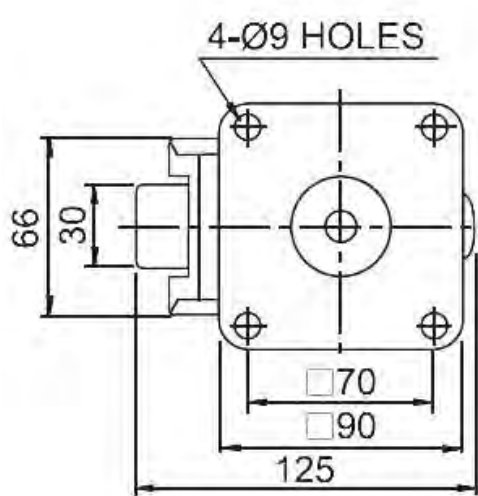
LN-FAN-ONF-3FCC-CC*

Impeller	PBT Thermoplastic Black UL 94 VO
Frame	Aluminum Alloy
Motor	Shaded Pole Induction Motor
Operation Temperature	-10C # +60C
Safety	CE, CUL, TUV
Weight	500 g.
Protection	Impedance Protected
Connecting	Wire Leads & Terminal
Lead Wire	AWG # 22 UL 1007 (Optional)
Expected Life	60C 50.000 Hours

*CC= LG for Light Grey RAL 7035 & BL for Black RAL 9005 & AG for Anthracite Grey for customers to define while ordering.

IP55 Cooler Cabinet

Heavy Duty Caster Set



LN-ZMN-TKR-65F Heavy Duty Caster Set						
Load / kg	Temprature	Body	Wheel	Adjusting Knob	Material	Support Cushion
400 kg	-10°C ~ +80°C	Alumium Alloy	PU	PU	Steel	PU

EMS 501

Environmental Monitoring and Management System



EMS 501 Technical Specifications	
Dimensions	380 x 105 x 35 mm
Weight	480 gr
Voltage	12 Volt
Current	500-2000 mA
Communication protocol	Communication via standard TCP IP structure or GPRS
Communication compatibility	TS EN 61000-6-2
Protection class	IP 44
Warranty	2 years
Measurement precision	±2% standard
Device operating limits	Temperature: -20°C - 80°C, Humidity: up to 85% RH
Temperature measurement range	0 °C - 80°C (±1)
Relative humidity measurement range	0 - 95% RH (±3)
Measurement frequency	750 ms
Transmission frequency	Adjustable transmission frequency
Limit adjusting	Adjustable upper-lower limits
Door sensor	Magnetic sensor (optional)
Temperature and humidity	Internal temperature and humidity sensor
Screen	2x16 LCD screen
GSM identification	Yes
Digital input	8 input
Digital output	3 output
Analogue input	8 input
Camera connection	Yes
Protocols	HTTP, HTTPS, SNMP Traps, Modbus, FTP, SSH, Telnet
Emergency e-mail	Yes
Emergency SMS	Optional
Siren	Yes
USB cam support	Yes

Smoke Sensor

LN-EMS-SS



Smoke Sensor Technical Specifications

Dimensions	130x 130 x 35 mm
Weight	200 gr
Voltage	12 Volt
Current	40 ma
Communication protocol	Digital NC/NO dry contact
Warranty	2 years
Measurement precision	±2% standard
Device operating temperature	0°C - 50°C
Measurement frequency	20 measurements/minute
Limit adjusting	Adjustable upper-lower limits

FEATURES

- High precision
- 12 Volt input
- 85 db sound
- Testing button
- Optical sensor
- Wireless
- Easy mounting

Temperature and Humidity Sensor

LN-EMS-HHS



Temperature and Humidity Sensor Technical Specifications

Dimensions	50 x 33 x 18 mm
Weight	45 gr
Voltage	3.3 Volt DC
Current	20 ma
Communication protocol	Communication via standard TCP IP structure or GPRS
Warranty	2 years
Measurement precision	±2% standard
Device operating limits	Temperature: -20°C - 80°C, Humidity: up to 85% RH
Measurement frequency	750 ms
Limit adjusting	Adjustable upper-lower limits

FEATURES

- High precision
- Temperature and humidity measurement with a single device
- Calibrated digital measurement
- 2 m cable
- Compatible with indoor operations

Lande Leak Sensor

LN-EMS-LS

FEATURES

- High precision
- Compatible with EMS systems
- Can be connected to and EMS system as a sensor
- Can be connected to alarm systems
- Easy mounting



Leak Sensor Technical Specifications	
Dimensions	50 x 33 x 18 mm
Weight	45 gr
Voltage	3.3 Volt DC
Current	10 ma
Warranty	2 years
Measurement precision	±2% standard
Device operating temperatures	0°C - 80°C
Measurement frequency	750 ms
Limit adjusting	Adjustable upper-lower limits

DS-2CD1323G0-IU 2 MP IR Fixed Turret Network Camera



- 1/2.7" Progressive Scan CMOS
- 1920 × 1080@30fps
- 2.8/4 mm fixed lens
- Color: 0.028 Lux @ (F2.0, AGC ON), 0 Lux with IR
- H.265+/H.265/H.264+/H.264
- BLC/3D DNR/ROI
- IR range: Up to 30 m
- 3-Axis adjustment
- IP66
- Built-in microphone





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