



We connect and protect

## QL Series IT Rack

Connect and Protect your IT assets



[nVent.com](http://nVent.com)



## Optimized solutions for connecting and protecting mission-critical data center and networking infrastructure

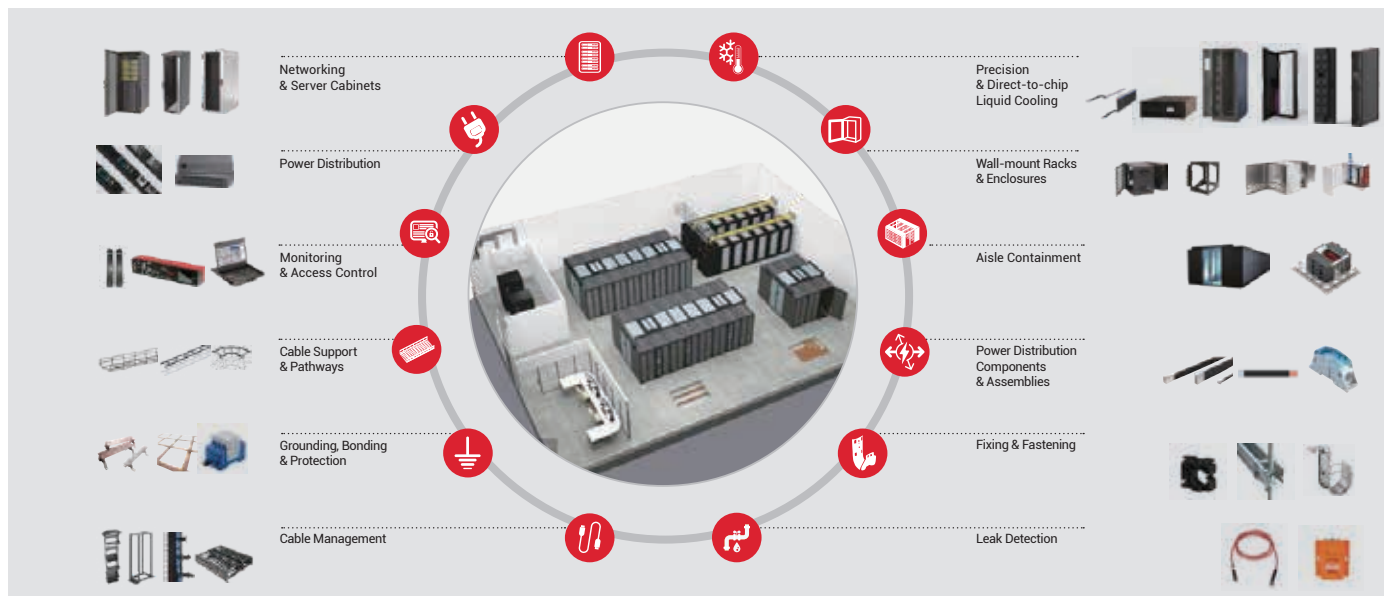
We offer a comprehensive portfolio of smart enclosures, power distribution, cable management and liquid cooling solutions that protect critical systems and help drive resiliency, serviceability and energy efficiency for networking, data center and communication applications.



## Solutions for IT/Networking, Data Centers and Communications

As a global leading solutions provider, nVent offers customers a comprehensive portfolio of adaptable, modular and scalable standard product platforms for networking, data center and communications applications.

Our product range enables our customers to connect and protect IT and mission-critical systems, from smaller decentralized edge computing in harsh environments to large data centers and central office installations.



## SCALABLE PHYSICAL INFRASTRUCTURE

Once an IT afterthought, today the cabinet has evolved into a foundation for infrastructure, facilitating cabling, security, thermal management and physical protection. nVent QL Series IT Rack is designed to evolve with the rapidly changing requirements of network demand and equipment.

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### TYPICAL APPLICATION

- Enterprise, Hyperscale, Multi-tenant Data Center
- Edge Compute and Micro Data Center
- Office and Building Networking
- Industrial Networking

### PRODUCT INFORMATION

- 7 folded structure steel profile and Seamless welded front and rear frame
- Split side covers, Toolless installation and removal
- Front Curve door offers a highly attractive appearance and durability, Up to 75% perforation
- Rear doors are split for easy access, include 3-point locking and swing handle, Up to 75% perforation
- Multi-functional roof for cable entry
- Multi-function mounting bracket for PDU and Manifold tool-free installation
- Static load-carrying capacity up to 1500 kg
- High dynamic load 900 kg with integrated castors
- Ingress protection class IP 20
- Comply with UL2416, CE , ROHS certifications

### BENEFITS

- Modular server cabinet platform offering a wide variety of sizes, configurations and versatility
- Fully assembled, also option as flatpack unassembled for Fast deployment
- Innovative cable management design for Maximum flexibility
- High Stability allows for the installation of more up-to-date IT equipment

### STANDARD SPECIFICATION

- ANSI/EIA RS-310-D
- EC 60297-3-100
- GB/T 19520.16
- UL2416
- IEC 60529, IP20



Static  
loading



Dynamic  
loading



Easy  
assembly



Ventilation  
Rate



## QL Series IT Rack Key Features

### Side Panel:

Split side covers  
The top and bottom covers are interchangeable  
Toolless installation and removal



### Rear accessory management:

Multi-function mounting bracket with Keyhole and hammerhead hole, Support PDU and Manifold tool-free installation  
Rear frame with hammerhead hole for cable management

### Rear Door:

Split double door with hex shape perforation cut-outs  
Up to 75% perforation  
Opening angle 130°  
Three-point latching mechanism  
Lever handle with a key insert



### Bottom support:

Static load-carrying capacity up to 1500 kg with adjustable foot  
High dynamic load 900 kg with integrated castors



### Multi-functional roof:

Both Top cover and rear frame with Brush strip and cover plate fitted in cut-out zone for cable entry

### Front Door:

Single curve door with hex shape perforation cut-outs  
Up to 75% perforation  
Opening angle 130°  
Single-point latching mechanism  
Lever handle with a key insert

### Equipment support:

Includes (2) sets of 19" panel/slide mounts, RU markings are present on both sides of the rails  
Panel/slide mounts can be recessed in 25 mm steps

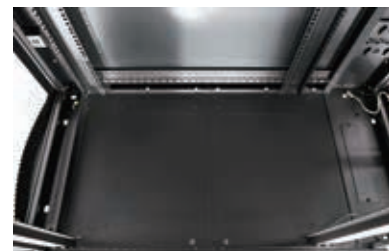


### Frame:

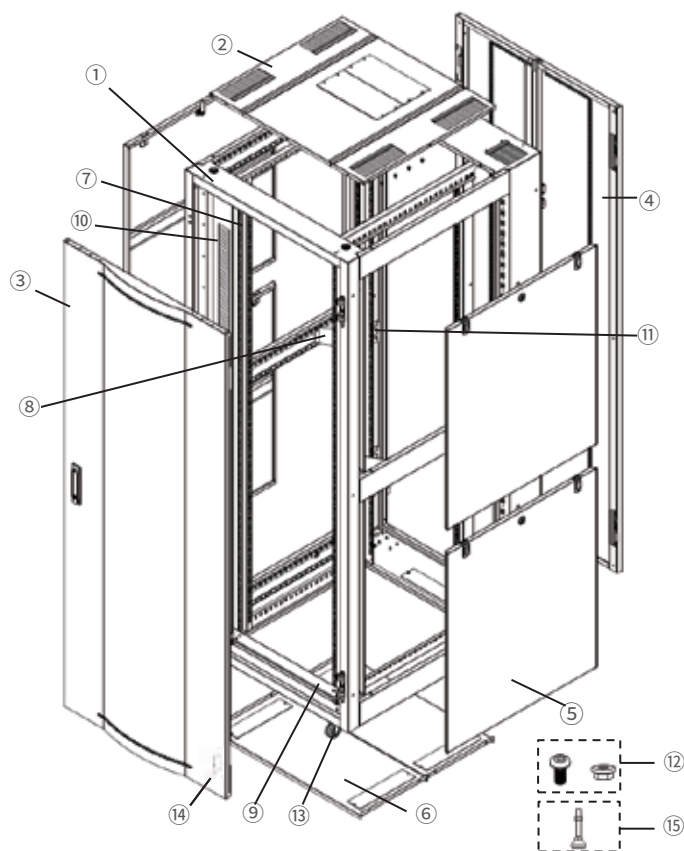
Robust 7 folded structure steel profile  
Seamless welded front and rear frame  
High-strength upper, middle, and lower-side cross-member  
The flatpack unassembled option is available

### Base Plate:

Split bottom covers  
2 cover plates fitted in cut-out zone for cable entry



## QL Series IT Rack Components



### Rack Components

1. Basic frame
2. Top cover
3. Front curve door
4. Rear double door
5. Side Panel- option
6. Base Plate-option
7. 19" panel/slide mounts
8. Mounting bracket for 19" panel/slide mounts, only for 800mm W
9. Air blanking panels, top and bottom
10. Air blanking panels, Side, only for 800mm W
11. Multi-function mounting bracket
12. Side-by-Side Kit
13. Castors
14. Earthing Kit
15. Adjustable Feet

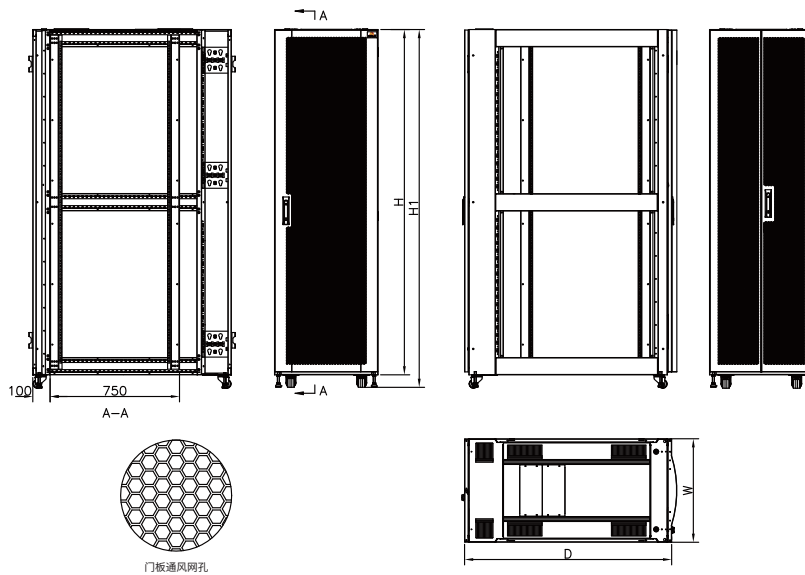
### Hardware & Tools

1. 19" Assembly Kit - M6 Cage nuts, 40pcs
2. 19" Assembly Kit - M6 x12 Phillips Screw, 40pcs
3. #2 Phillips tool, 1pcs

## QL Series IT Rack Configuration

QL	42	06	12	C	9	2	3	S	XXXX	
										Non-standard code
										Package Type
										• S-Standard package
										• F-Flat-pack
										Rear door type
										1-Perforated door
										2-Perforated curve door
										3-Perforated double door
										Front door type
										4-Glass door
										5-Steel door
										Color, 9-RAL9005, 5-RAL7035
										Cabinet type, C-Standard, S-Seismic
										Depth:1000mm, 1100mm, 1200mm
										Width:600mm, 800mm
										Height:42U, 47U, 52U
										QL Series IT Rack

## QL Series IT Rack Dimension



Catalog No.	U space	Width W(mm)	Depth D(mm)	Height H(mm)	Height H1(mm)
QL420612C923S	42U	600	1200	2000	2072
QL420812C923S	42U	800	1200	2000	2072
QL470612C923S	47U	600	1200	2200	2272
QL470812C923S	47U	800	1200	2200	2272
QL520612C923S	52U	600	1200	2450	2522
QL520812C923S	52U	800	1200	2450	2522

\*Flatpacked rack option must be assembled onsite

Catalog No.	U space	Width W(mm)	Flat-pack Type	Shipping dimensions (mm)			Single volume (m³)	Total volume (m³)
				Length	Width	Height		
QL420612C923F	42U	600	Frame Flat-pack	2035	330	635	0.426	0.562
			Doors Flat-pack	640	2020	105	0.136	
QL420812C923F	42U	800	Frame Flat-pack	2035	330	835	0.561	0.739
			Doors Flat-pack	840	2020	105	0.178	
QL470612C923F	47U	600	Frame Flat-pack	2235	330	635	0.468	0.618
			Doors Flat-pack	640	2220	105	0.149	
QL470812C923F	47U	800	Frame Flat-pack	2235	330	835	0.616	0.812
			Doors Flat-pack	840	2220	105	0.196	
QL520612C923F	52U	600	Frame Flat-pack	2485	330	635	0.521	0.687
			Doors Flat-pack	640	2470	105	0.166	
QL520812C923F	52U	800	Frame Flat-pack	2235	330	835	0.616	0.812
			Doors Flat-pack	840	2220	105	0.196	
QLSS4212C910S	42U	/	Side Panel Flat-pack	980	900	110	0.097	0.097
QLSS4712C910S	47U	/		980	1000	120	0.118	0.118
QLSS5212C910S	52U	/		1105	1000	120	0.133	0.133

## QL Series IT rack Side-by-side



### Product Features

- Preconfigured, ready-to-use cabinet
- High dynamic load of 900 kg with integrated castors, Static load-carrying capacity up to 1500 kg
- Ingress protection class IP 20
- Installation of different IT equipment possible
- Integrated air panels for front-to-back cooling

### Material

- Carbon steel

### Color

- Black RAL 9005

### Certifications

- UL2416
- CE
- RoHS

Item delivered: Delivery of this product includes the following item(s):

Item	Qty.	Description
1	1	Basic frame from steel profiles, with Front frame, rear frame, side cross member, St, 1.5 mm RAL9005, with 2 pcs Brush strip fitted on the top of the rear frame for cable entry
2	1	Top cover, RAL 9005, St, 1.2 mm with 4 pcs Brush strip and 2 cover plates fitted in cut-out zone for cable entry
3	1	Front Curve door, fully perforated (75%), St, 1.2 mm, 1-point locking and lever handle, RAL9005
4	1	Rear double door, fully perforated (75%), St, 1.2 mm, 3-point locking and lever handle, RAL9005
5	4	19" panel/slide mounts, St, 2.0 mm, mounted in 740 mm intervals, with U marking, RAL9005, Panel/slide mounts can be recessed in 25 mm steps
6	6	Mounting bracket, St, 2.0 mm (to accept 19" panel/slide mounts in 800 mm wide cabinets) -only for 800mm W
7	2	Air blanking panels ,top and bottom, 1.2mm
8	2	Air blanking panels with cut-outs and 4 pcs brushes, 1.2mm -only for 800mm W
9	6	Multi-function mounting bracket with Keyhole+ hammer head hole, Support PDU and Manifold tool-free installation, St, 1.5 mm, RAL9005
10	1	Earthing kit, 4 mm <sup>2</sup> x 300mm grounding wire, 4 Wires, assembled
11	4	Adjustable foot, M12 x 90mm
12	4	Castors, 2", Dynamic Load: 300 kg/pcs
13	6	Side-by-Side Kit
14	1	Accessory kit: 19" Assembly Kit with 40 sets of Screw M6 * 12, Cage nut M6, 1 tool
15	1	Package (Cardboard box + wooden pallet) for fully assembled floor-standing cabinet

### Order information

Catalog No.	QL420612C923S	QL420812C923S	QL470612C923S	QL470812C923S	QL520612C923S	QL520812C923S
RU Height	42	42	47	47	52	52
Height mm	2000	2000	2200	2200	2450	2450
Width mm	600	800	600	800	600	800
Depth mm	1200	1200	1200	1200	1200	1200
19" Mounting dimension mm	740	740	740	740	740	740



## QL Series IT rack Stand-alone Flat-pack



### Product Features

- Preconfigured Stand-alone Rack
- Flat-pack for easy transportation
- High dynamic load of 900 kg with integrated castors, Static load-carrying capacity up to 1500 kg
- Ingress protection class IP 20
- Installation of different IT equipment possible
- Integrated air panels for front-to-back cooling

### Material

- Carbon steel

### Color

- Black RAL 9005

### Certifications

- UL2416
- CE
- RoHS

**Item delivered: Delivery of this product includes the following item(s):**

Item	Qty.	Description
1	1	Basic frame from steel profiles, with Front frame, rear frame, side cross member, St, 1.5 mm RAL9005, with 2 pcs Brush strip fitted on the top of the rear frame for cable entry
2	1	Top cover, RAL 9005, St, 1.2 mm with 4 pcs Brush strip and 2 cover plates fitted in cut-out zone for cable entry
3	1	Front Curve door, fully perforated (75%), St, 1.2 mm, 1-point locking and lever handle, RAL9005
4	1	Rear double door, fully perforated (75%), St, 1.2 mm, 3-point locking and lever handle, RAL9005
5	4	19" panel/slide mounts, St, 2.0 mm, mounted in 740 mm intervals, with U markinQL Series IT rack Side-by-Side, RAL9005, Panel/slide mounts can be recessed in 25 mm steps
6	4	Side Panel, 2 Parts, With Quick-Release Fastener and Lock, St, 1 mm, RAL9005
7	2	Base Plate, 2 Parts, St 1.2 mm, RAL9005
8	6	Mounting bracket, St, 2,0 mm (to accept 19" panel/slide mounts in 800 mm wide cabinets) -only for 800mm W
9	2	Air blanking panels, top and bottom, 1.2mm
10	2	Air blanking panels with cut-outs and 4 pcs brushes, 1.2mm -only for 800mm W
11	6	Multi-function mounting bracket with Keyhole+ hammer head hole, Support PDU and Manifold tool-free installation, St, 1.5 mm, RAL9005
12	1	Earthing kit, 4 mm2 x 300mm grounding wire, 8 Wires
13	4	Adjustable foot, M12 x 90mm
14	4	Castors, 2", Dynamic Load: 300 kq/pcs
15	6	Side-by-Side Kit
16	1	Accessory kit: 19" Assembly Kit with 40 sets of Screw M6 * 12, Cage nut M6, 1 tool
17	1	Flat-pack Package

### Order information

Catalog No.	QL420612C923F	QL420812C923F	QL470612C923F	QL470812C923F	QL520612C923F	QL520812C923F
<b>RU Height</b>	42	42	47	47	52	52
<b>Height mm</b>	2000	2000	2200	2200	2450	2450
<b>Width mm</b>	600	800	600	800	600	800
<b>Depth mm</b>	1200	1200	1200	1200	1200	1200

\*Flat packed rack option must be assembled on-site

## Side Panel



- Steel, 1 mm
- 2 split side panels with a grounding kit
- Safety lock kit included

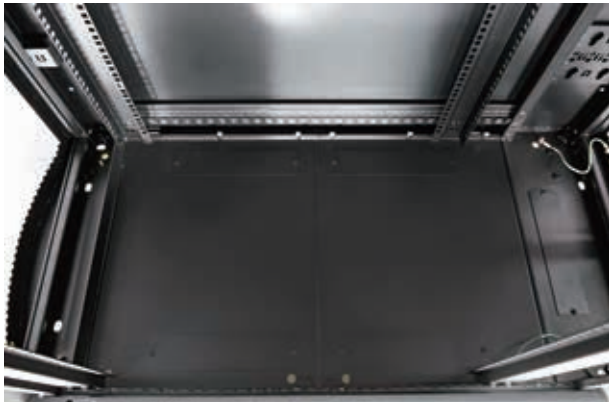
Delivery comprises (kit)

Item	Qty.	Description
1	2	Side panel, St, 1 mm, with quick-release fastener, RAL9005
2	2	Grounding kit, 4 mm <sup>2</sup>
3	1	Assembly kit

### Order Information

For cabinet height U	For cabinet height mm	For cabinet Depth mm	Part no.
42	2000	1200	QLSS4212C91S
47	2200	1200	QLSS4712C91S
52	2450	1200	QLSS5212C91S

## Base Plate



- Base plate, 2 parts
- To cover the base opening
- 2 cover plates fitted in cut-out zone for cable entry

Delivery comprises (kit)

Item	Qty.	Description
1	2	Base plate, 2 parts, St 1.2 mm, RAL9005
2	4	Cover plate
3	1	Assembly kit

### Order Information

For cabinet Width mm	For cabinet Depth mm	Part no.
600	1200	QLBP0612C91S
800	1200	QLBP0812C91S

## Slide Rail



- Mounts on four 19" slide mounts
- Wide support surface (48 mm)
- Can be fitted in 1 U increments

Delivery comprises (kit)

Item	Qty.	Description
1	2	Slide rail, St, 2.0 mm, RAL9005
2	1	Assembly kit

## Order Information

Mounting dimension mm	Part no.
740	QLLR0009C910S

## 19" Shelf, Stationary



- Static load-carrying capacity 100 kg
- St, 1.5 mm
- Width 487 mm
- For mounting on four 19" panel/slide mounts

Delivery comprises (kit)

Item	Qty.	Description
1	1	Perforated shelf, St, 1.5 mm, RAL9005
2	1	Assembly kit

## Order Information

Mounting dimension mm	Part no.
740	QLSH1909C910S

## 19" Telescopic Shelf



- Perforated cut-outs
- Static load-carrying capacity 75 kg
- Incl. telescopic slides
- Depth-adjustable, Mounting dimension 600-900 mm

Delivery comprises (kit)

Item	Qty.	Description
1	1	Perforated shelf, St, 1.5 mm, RAL9005
1	2	Telescopic slide, 1 U
2	1	Assembly kit

## Order Information

Mounting dimension mm	Part no.
740	QLSHVT09C910S

### Horizontal Cable Manager



- Rack mount cable management with removable cover
- Side-to-side installation on the 19" panel/slide mounts

Delivery comprises (kit)

Item	Qty.	Description
1	1	Cable channel, horizontal, St, 1.2 mm, RAL9005
2	1	Removable cover, St, 0.8 mm, RAL9005
2	1	Assembly kit

#### Order Information

Height U	Part no.
1	QLCM1U19C910S
2	QLCM2U19C910S

### Horizontal Cable Manager



- 19" front panel to accommodate 5 pcs cable eyes

Delivery comprises (kit)

Item	Qty.	Description
1	1	19" front panel, St, 1.5 mm, RAL9005
2	5	Cable eye, width 1U/2U, depth 60 mm
3	1	Assembly kit

#### Order Information

Height U	Part no.
1	QLCM1U19C920S
2	QLCM2U19C920S

### 19" Front Panel, Plastic



- Attractive design
- Simple fitting by clipping onto the 19" plane

Delivery comprises (kit)

Item	Qty.	Description
1	5	Clip-on 19" plastic front panels, ABS, Black

#### Order Information

Height U	Part no.
1	QLFP1U19C911S

## 19" Front Panel

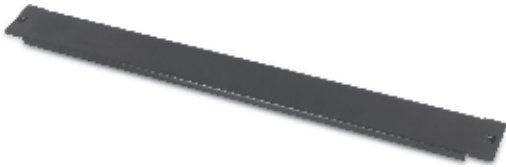
- 19" front panel used as a coverage of 19 "blank area

Delivery comprises (kit)

Item	Qty.	Description
1	5	19" front panel, St, 1.5 mm, RAL9005
3	1	Assembly kit

### Order Information

Height U	Part no.
1	QLFP1U19C910S
2	QLFP2U19C910S



## Vertical Cable Managers

- Vertical Cable Managers for flexible and easy cable management
- Cable fingers provide for proper bend radius of cables
- Used for 800mm W racks

Delivery comprises (kit)

Item	Qty.	Description
1	2	Vertical Cable Managers with cable fingers, RAL9005, width 100 mm, depth 120 mm
3	1	Assembly kit

### Order Information

Height U	Part no.
42	QLCM42101290S
47	QLCM47101290S
52	QLCM52101290S



## Vertical Cable Panel

- For fitting directly onto the frame
- Cables are assembled in place with cable ties or Velcro

Delivery comprises (kit)

Item	Qty.	Description
1	2	Cable panel with cut-outs, St, 1.5 mm, RAL 9005
3	1	Assembly kit

### Order Information

Height U	Part no.
42	QLCM4215C910S
47	QLCM4715C910S
52	QLCM5215C910S





## Roof Mount Cable Manager

- Organizes overhead cable runs between racks and cable access slots in the enclosure roof

Delivery comprises (kit)

Item	Qty.	Description
1	1	Roof Mount Cable Manager, St, 1.2 mm, RAL9005
2	1	Assembly kit

### Order Information

For cabinet Width mm	Part no.
600	QLCM0618C910S
800	QLCM0818C910S



## Fan Tray

- Suitable for top cover with cut-out zones
- With 4 fans, completely wired

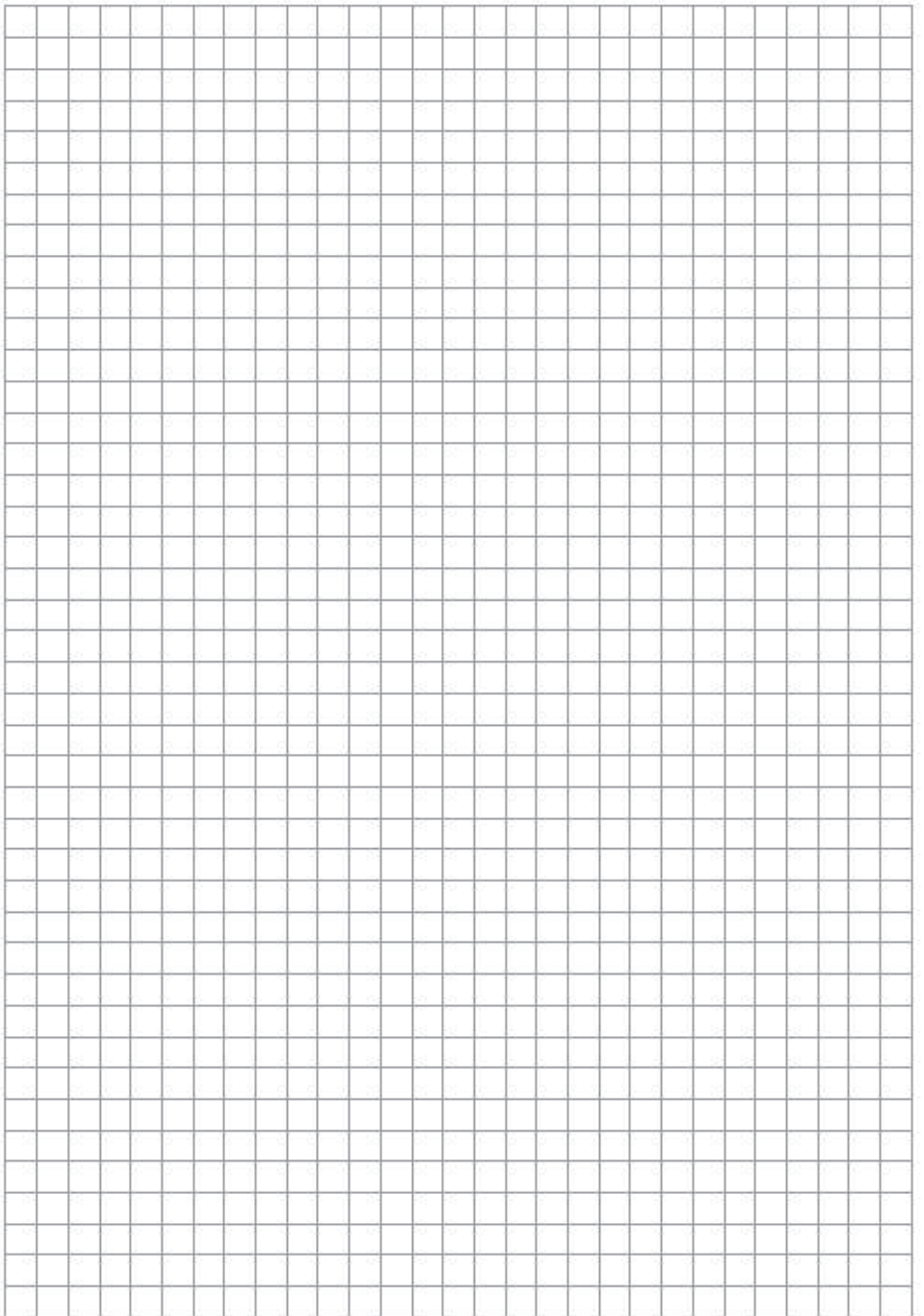
Delivery comprises (kit)

Item	Qty.	Description
1	1	Fan tray, RAL9005
2	4	Axial fan 230 VAC, fully wired, connects via C14 male plug
1	1	Power cable- IEC 60320-C13 plug to GB 10A socket
3	1	Assembly kit

### Order Information

Fan Qty.	Part no.
4	QLFT0400C910S







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