



Intelligent cooling
an ICT Company

CRAC

Precision Air Conditioning



**Custom Engineered
Thermal Management Solution for Data Centers**



Product Description

Our guiding principles during the development of the Air2O Precision Air Conditioning line were safety, reliability, efficiency, and environment.

These units achieve the balance between high performance and environmental impact.

The Air₂O Precision Air Conditioning line uses environmental-friendly R407C refrigerants.

Highlights of the Air₂O Precision Air Conditioning Line:

- Simple installation and connections • High performance
- Wide variety of solutions • Environmental-friendly
- Efficiency • Quality • Reliability

The Air₂O Precision Air Conditioning Line is perfect when the environment is highly demanding.

- Telecom
- Chip Manufacturing
- Museums
- Data Centers
- Hospitals
- Banks
- Laboratories



Features and Benefits



Electrical Safety

- CE/IEC Compliant • Source Power 380V ±20%
- Power Supply protection 380V±50% with automatic protection
- Auto- restart



Evaporator

- High efficiency- (WHY?)
- High Sensible Heat Effectiveness (HOW HIGH?)



Electronic Expansion Valve

- High Reliability • High-Temperature Stability
- 10x Precision vs outdated thermal expansion valves
- 20-30% more efficient



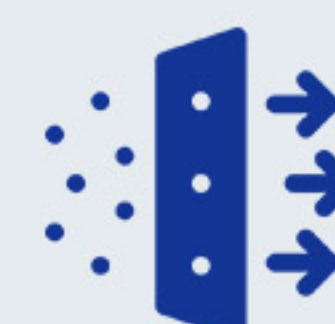
Electrode Steam Humidifier

- Microprocessor controlled • Auto-Cleaning



Cabinet

- Sturdy frame for worry-free shipping
- Clean, black steel finish



Filter

Air filter under EU4 standard which is a metallic bracket, filtering the dust and particulate effectively by air circulation, then purifying the air environment of telecom room.



Copeland Scroll Compressor

- High efficiency • Long life
- The Industry Standard



Indoor blower fan

- Backward curve fans
- Static pressure adjustable to 1.6" esp
- EC motors:
 - Quiet – Efficient – Long-life, 10+ years expected
 - Stepless variable speed



Electric Heater

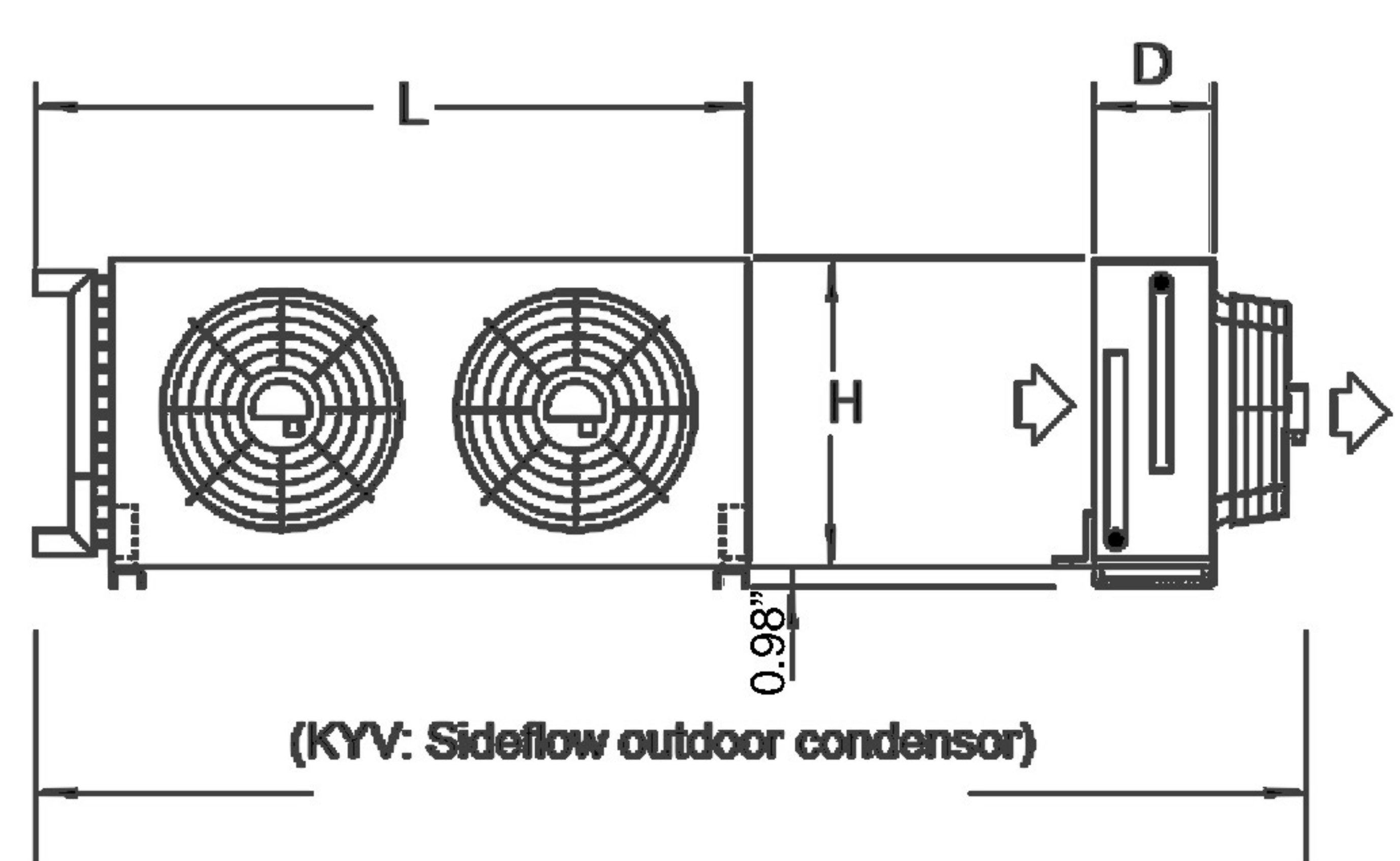
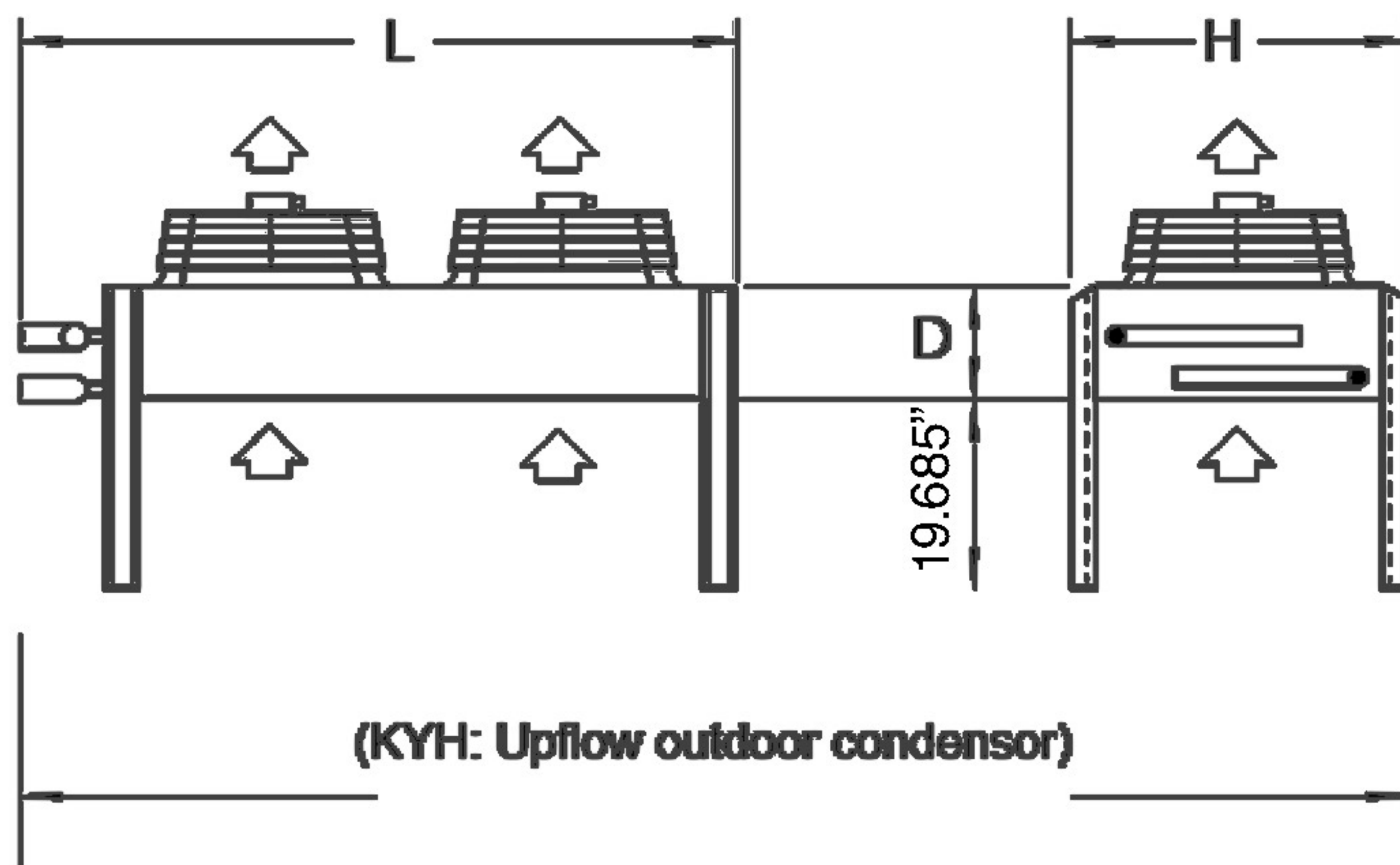
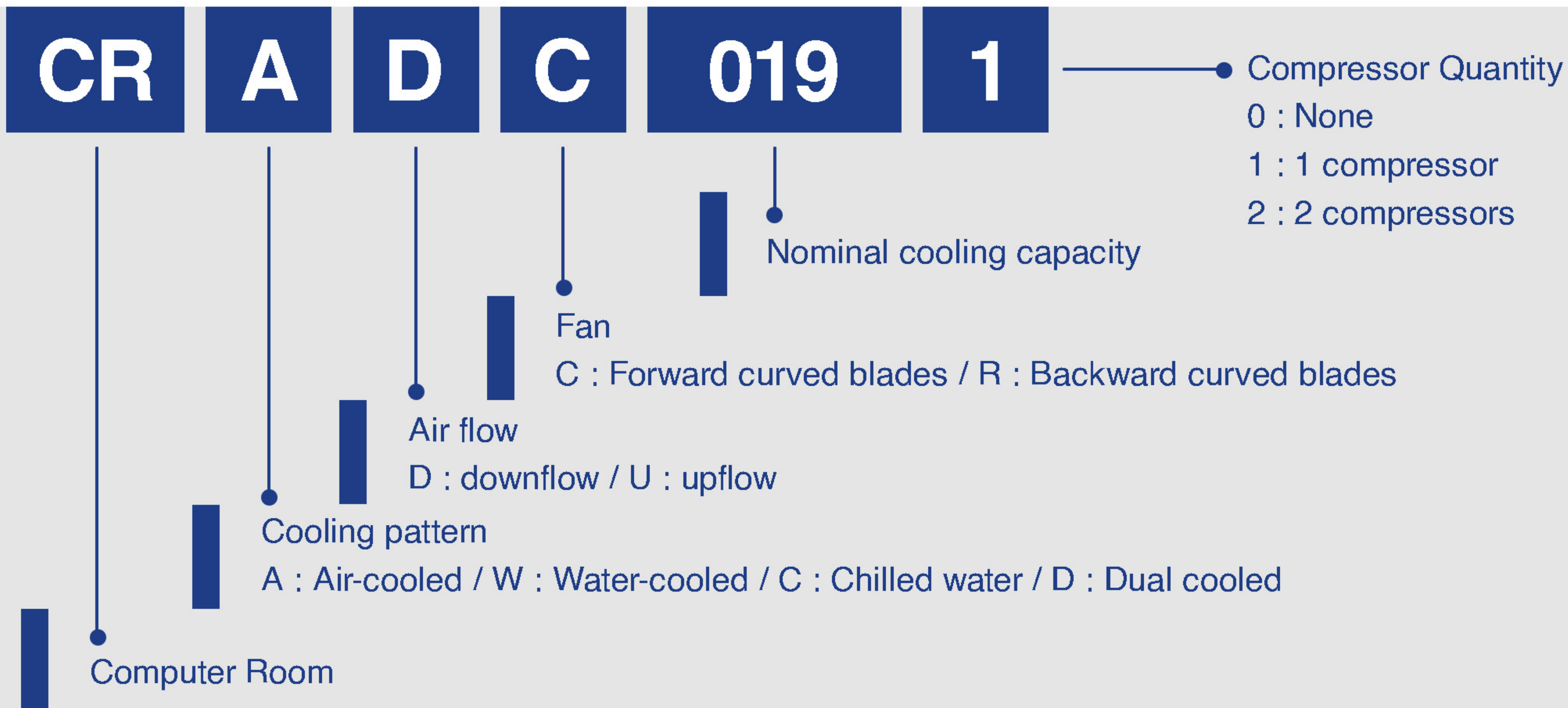
- Overheat protection • Ionization resistance



Condenser

- Corrosion Resistant aluminium alloy enclosure
- Axial fans with EC Motors:
 - Quiet – Efficient – Long-life, 10+ years expected
 - Stepless variable speed

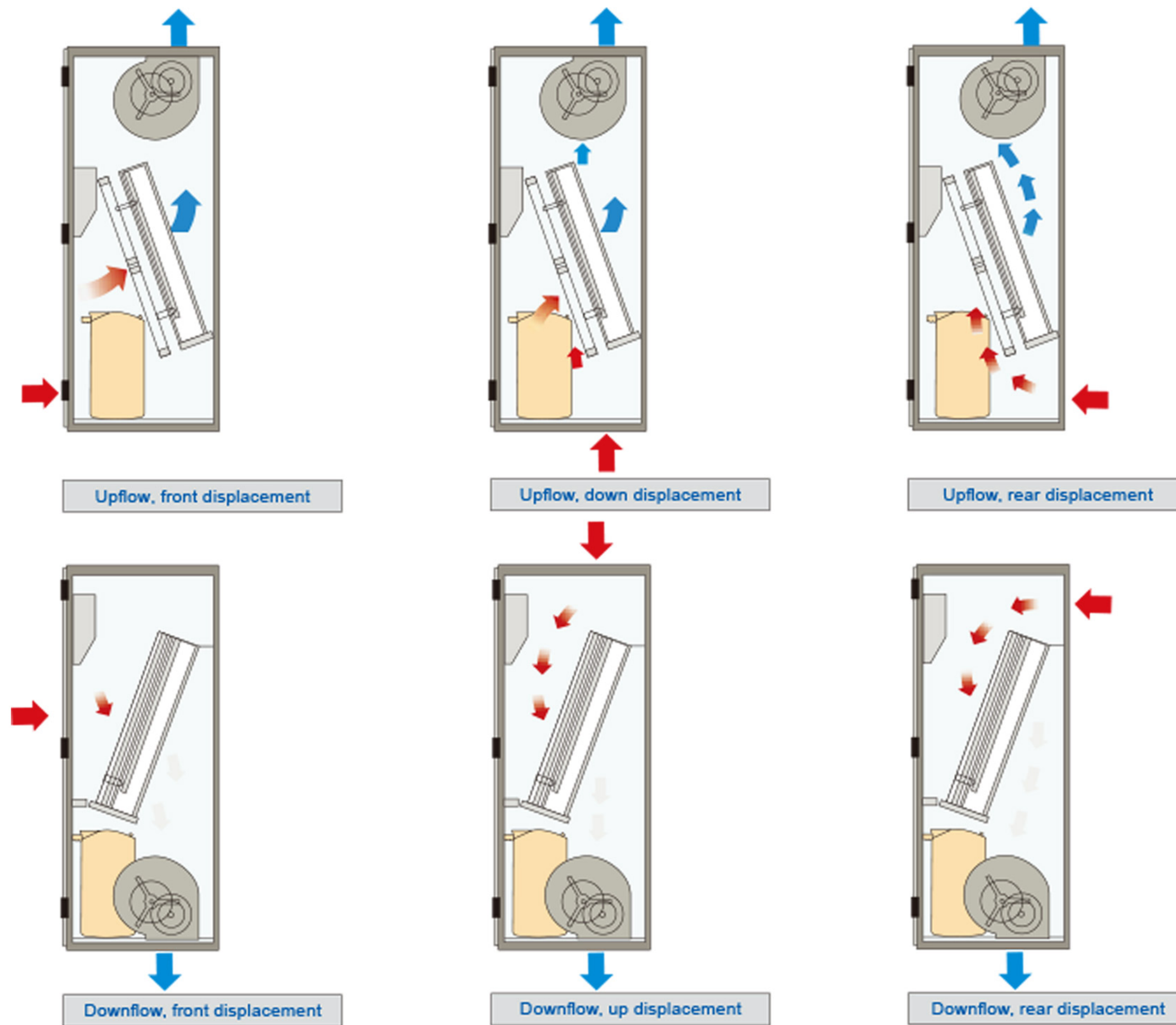
Product Model Name Convention



Technical data for outdoor condenser

Condenser model (KYV/KYH)	39	58	80	100	120	150	165	180	
Rated Power (Kw)	0.35	0.35x2	0.35	0.35x2	0.35x2	0.76x2	0.76x2	0.78x2	
Power supply	220/50HZ								
Air flow (CFM)	3237.18	6474.36	7062.93	7092.36	12948.71	13831.58	14714.44	22365.96	
Fan diameter (in)	17.72	17.72	17.72	19.69	19.69	24.80	24.80	24.80	
Fan quantity	1.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	
Sound pressure level (dB)	50.00	56.00	62.00	62.00	66.00	68.00	70.00	70.00	
Dimension	L (in)	38.58	50.39	60.24	60.24	70.47	72.83	80.12	86.61
	D (in)	13.78	13.78	13.78	15.75	15.75	15.75	15.75	15.75
	H (in)	23.82	29.53	29.53	39.21	37.60	39.21	39.21	39.21
Weight (lb)	77.16	105.82	209.44	264.55	317.47	335.10	363.76	418.88	
Installation dimension (Installation hole ϕ 12)	30.51x16.54	42.32x16.54	48.93x18.9	52.95x18.9	63.98x18.9	66.34x18.9	72.83x18.9	77.56x18.9	

Flow / Displacement



Precision Digital Controls by Carel

- ☑ High accuracy:
 - ±.2 Deg F
 - ±2% RH
- ☑ BMS Integration
- ☑ Touch Screen optional
- ☑ Remote Monitoring available





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A

**Air/water-cooled
precision unit**

0762 ~ 1302

**Chilled water
precision unit**

01200 ~ 01500

B

**Air/water-cooled
precision unit**

0061 ~ 0301

**Chilled water
precision unit**

0080 ~ 0300

C

**Air/water-cooled
precision unit**

0351 ~ 0451

**Chilled water
precision unit**

0400 ~ 01000





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Our Offices

North America

425 E Pinnacle Peak, Suite 100
Scottsdale, Arizona 85027
1-(602)-699-3766

Europe

Unit 9 Top Deck Industrial Estate
Smethurst Lane, Bolton
BL4 0AN
+44 (0)845 873 0660

Middle East

Kingdom of Saudi Arabia, Riyadh,
Al-Wrood District ,7155 Al-Olaya,
Tashkeel Tower, P.O. Box: 2323,
Riyadh 12253

South East Asia

La Fuerza Compound, 2241
Chino Roces Ave, Makati,
2241 Metro Manila, Philippines