



**T D63
Compact 4
Way
Cassette**



CLiveT T D63 Compact 4 Way Cassette Owner's Manual

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CLiveT T D63 Compact 4 Way Cassette



Product Information

Specifications

- **Model:** Q4AN-3-XY D15 – D63
- **Power Supply:** 1-phase, 220-240V, 50Hz
- **Refrigerant Type:** R-410A
- **Cooling Capacity:** 1.5 kW – 6.3 kW
- **Heating Capacity:** 1.8 kW – 7.1 kW
- **Fan Motor Type:** DC
- **Main Body Weight:** 13.0 kg – 16.0 kg
- **Panel Weight:** 2.3 kg – 3.0 kg
- **Liquid/Gas Pipe:** 6.35 mm / 12.7 mm

Product Usage Instructions

Installation

Ensure the maintenance hole centerline aligns with the indoor unit centerline.

Unit Placement

Follow the provided unit placement considerations to ensure proper installation.

Piping Diagram

Refer to the piping diagram legend for proper connections.

Wiring Diagram

Follow the wiring diagram for correct electrical connections.

Group Control

For group control, connect indoor units in a daisy chain and set the group controller to group control mode.

FAQs

- **Q: What should I do if the unit is not cooling/heating properly?**

A: Check the power supply, air filters, and ensure proper installation for efficient cooling/heating.

- **Q: How often should the unit be serviced?**

A: It is recommended to service the unit annually to maintain optimal performance.

- **Q: Can this unit be used in commercial spaces?**

A: Yes, this unit is suitable for both residential and commercial applications.

FEATURES



SIZE		D15		D22		D28		D36		D45		D56		D63	
COOLING CAPACITY kW		1,5		2,2		2,8		3,6		4,5		5,6		6,3	
HEATING CAPACITY kW		1,8		2,4		3,2		4,0		5,0		6,3		7,1	

General technical data

Model				Q4AN-3-XY D15		Q4AN-3-XY D22		Q4AN-3-XY D28		Q4AN-3-XY D36		
Power supply				1-phase, 220-240V, 50Hz								
Cooling 1		Capacity		kW	1.5		2.2		2.8		3.6	
				kBt u/h	5.1		7.5		9.6		12.3	
		Power input		W	14		14		16		18	
Heating 2		Capacity		kW	1.8		2.4		3.2		4.0	
				kBt u/h	6.1		8.2		10.9		13.7	
		Power input		W	14		14		16		18	
Fan motor type				DC								
		Number of rows			1	1		1		2		
		Tube pitch × row pitch		m m	18×10,72							
		Fin spacing and type		m m	1,2 Hydrophilic aluminum							

Indoor coil	Tube OD and type		m m	Φ5 Inner-groove									
	Dimensions (L×H×W)		m m	436×180×436									
	Number of circuits			1		1		1		2			
Air flow rate3			m3/h	450/425/400/370/345/320/295				510/480/455/425/ 395/370/340		530/500/470/440/ 405/375/345			
Sound pressure level4			dB(A)	29/28/27/27/26/26/25				30/29/28/27/26/26/25		31/30/29/28/27/26/25.5			
Sound power level5			dB(A)	40/39/39/39/38/38/38				42/41/40/39/39/38/38		42/40/39/38/38/38/38			
Main body	Net dimension s6 (W×H×D)		m m	575×235×638									
	Packed dimensions (W×H×D)		m m	690×285×690									
	Net/Gross weight		kg	13.0/15.0						14.0/16.0			
Panel	Net dimension s7 (W×H×D)		m m	620×65×620									
	Packed dimensions (W×H×D)		m m	680×80×665									
	Net/Gross weight		kg	2.3/3.0									
Refrigerant type				R410A/R32									
Design pressure (H/L)			MPa	4.4/2.6									
Pipe connections	Liquid/Gas pipe		m m	Φ6.35/Φ12.7									
	Drain pipe		m m	OD Φ25									

Model				Q4AN-3-XY D45		Q4AN-3-XY D56		Q4AN-3-XY D63	
Power supply				1-phase, 220-240V, 50Hz					
Cooling 1		Capacity	kW	4.5		5.6		6.3	
			kBtu/h	15.4		19.1		21.5	

		Power input		W	25	35	50		
Heating 2		Capacity		kW	5.0	6.3	7.1		
				kBtu/h	17.1	21.5	24.2		
		Power input		W	25	35	50		
Fan motor type				DC					
Indoor coil		Number of rows			2	3	3		
		Tube pitch × row pitch		m m	18×10,72				
		Fin spacing and type		m m	1,2 Hydrophilic aluminum				
		Tube OD and type		m m	Φ5 Inner-groove				
		Dimensions (L×H×W)		m m	436×180×436				
		Number of circuits			2	3	3		
Air flow rate3				m3/h	640/605/570/530/495/460/425	810/765/720/670/625/580/535	905/855/805/755/705/655/605		
Sound pressure level4				dB(A)	36.5/35/33/31/29/28/26.5	39/38/37/36/35/34/32	43/42/40/38/36/35/33.5		
Sound power level5				dB(A)	44/44/43/42/41/41/41	48/46/45/43/42/42/41	51/50/48/46/45/44/42		
Main body		Net dimension s6 (W×H×D)		m m	575×235×638				
		Packed dimensions (W×H×D)		m m	690×285×690				
		Net/Gross weight		kg	14.0/16.0	15.0/17.0			
Panel		Net dimension s7 (W×H×D)		m m	620×65×620				
		Packed dimensions (W×H×D)		m m	680×80×665				
		Net/Gross weight		kg	2.3/3.0				
Refrigerant type				R410A/R32					
Design pressure (H/L)				MPa	4.4/2.6				

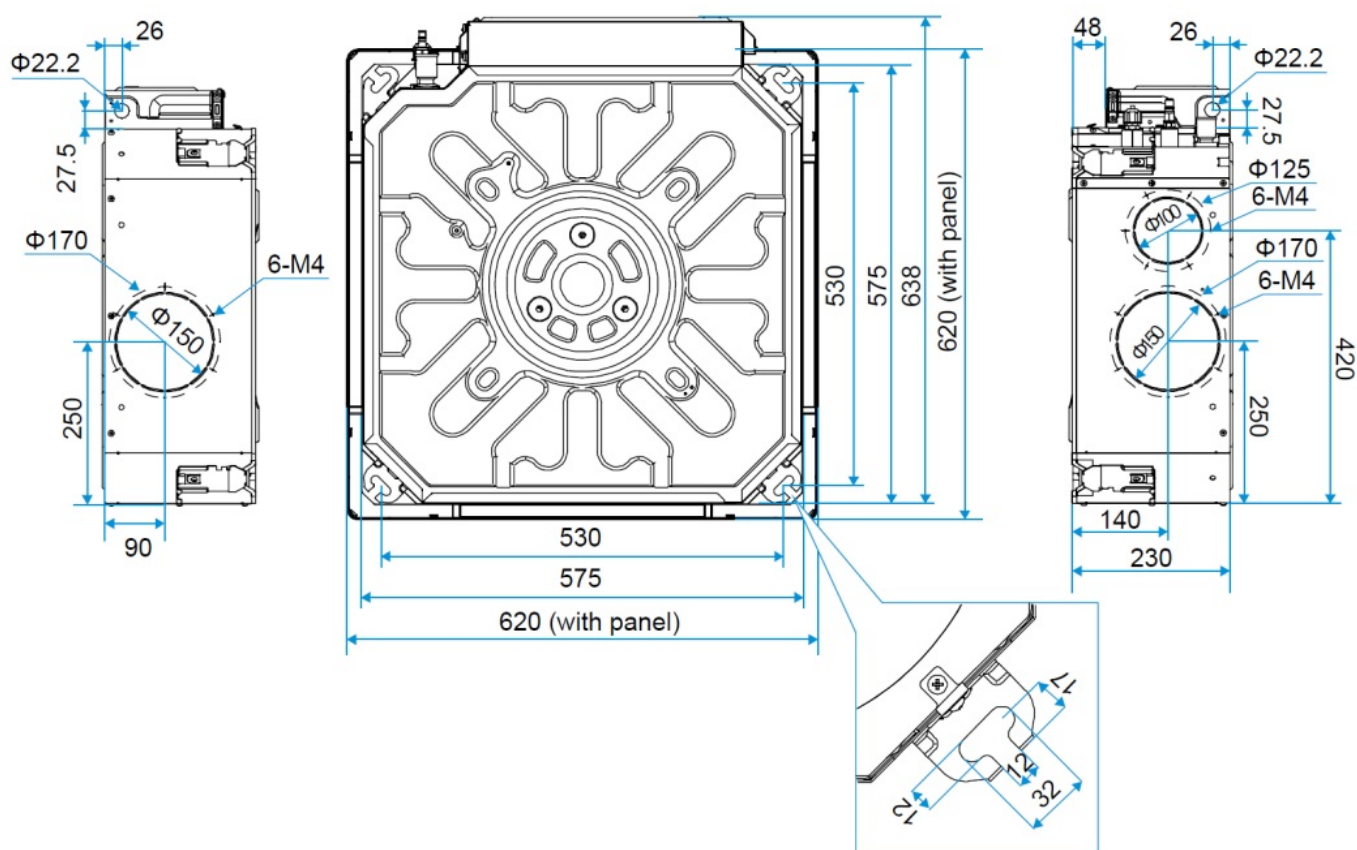
Pipe connections	Liquid/Gas pipe	m m	Φ6.35/Φ12.7	Φ9.52/Φ15.9
	Drain pipe	m m	OD Φ25	

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in a semi- anechoic chamber.
5. Sound power level is from highest level to lowest level, total 7 levels for each model.
6. The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.
7. Exposed height of the panel after being installed on the ceiling.

Dimensions

Dimensions (unit: mm)



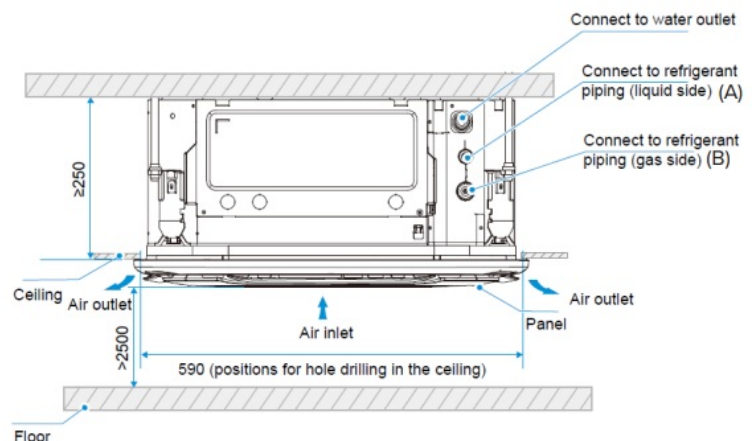
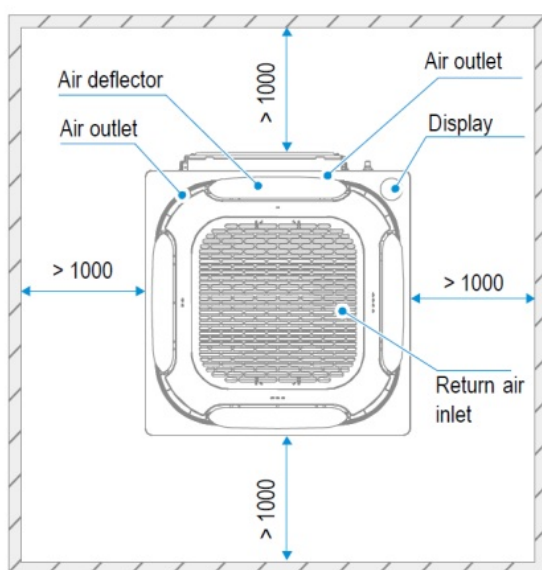
Unit placement

Placement Considerations

Unit placement should take account of the following considerations:

- Units should not be installed in the following locations:
 - A place filled with mineral oil, fumes or mist, like a kitchen.
 - A place where there are corrosive gases, such as acid or alkaline gases.
 - A place exposed to combustible gases and using volatile combustible gases such as diluent or gasoline.
 - A place where there is equipment emitting electromagnetic radiation.
 - A place where there is a high salt content in the air like a coast.
 - Do not use the air conditioner in an environment where an explosion may occur.
 - Places like in vehicles or cabin rooms.
 - Factories with major voltage fluctuations in the power supplies.
 - Other special environmental conditions.
- Units should be installed in positions where:
 - Ensure that the airflow in and out of the IDU is reasonably organized to form an air circulation in the room.
 - Ensure IDU maintenance space.
 - The nearer the drainage pipe and copper pipe are to the ODU, the lower the pipe cost is.
 - Prevent the air conditioner from blowing directly to the human body.
 - The closer the wiring to the power cabinet, the lower the wiring cost is.
 - Keep the air-conditioning return air away from the setting sun of the room.
 - Be careful not to interfere with the light tank, fire pipe, gas pipe and other facilities.
 - The IDU should not be lifted in the places like load-bearing beam and columns that affect the structural safety of the house.
 - The wired controller and the IDU should be in the same installation space; otherwise, the sampling point setting of the wired con-troller need to be changed.

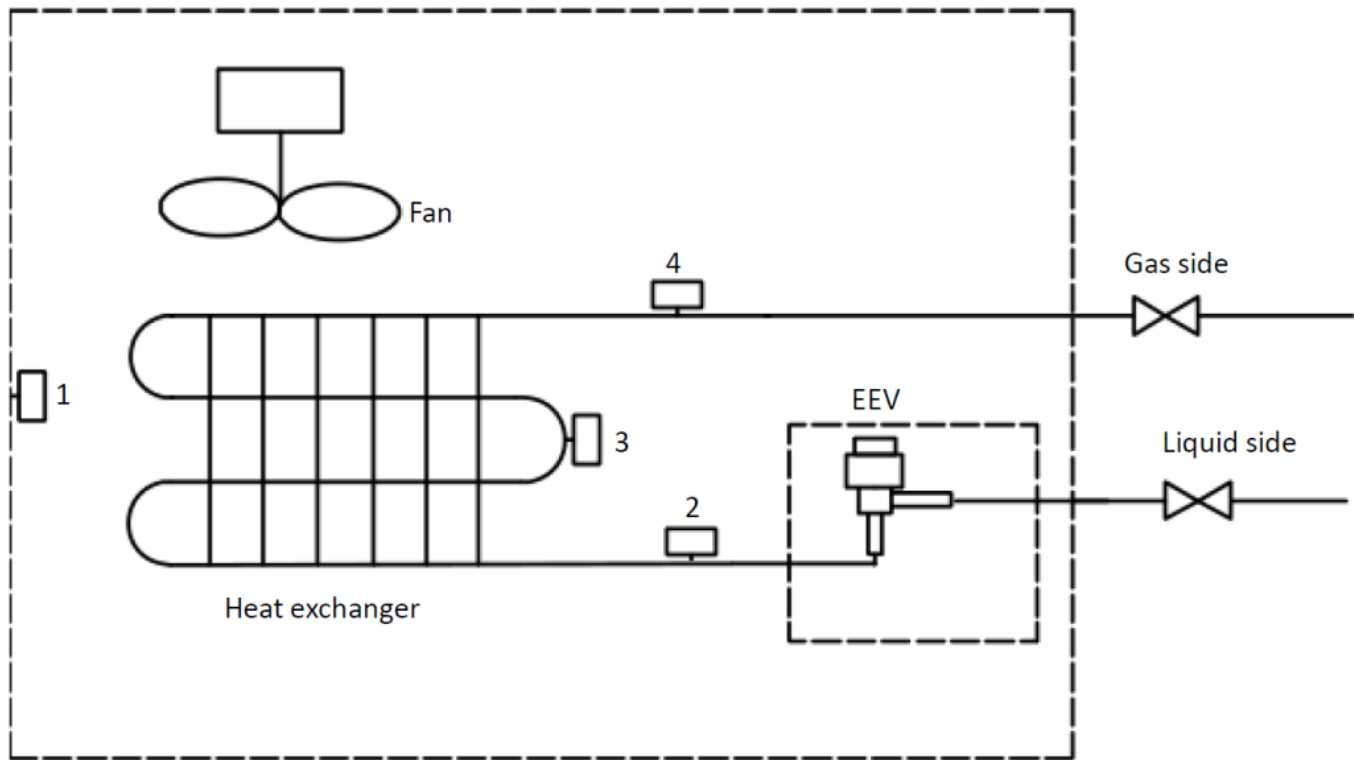
Space Requirements (unit: mm)



1. The centerline of the maintenance hole should be in the same position as the centerline of the indoor unit.

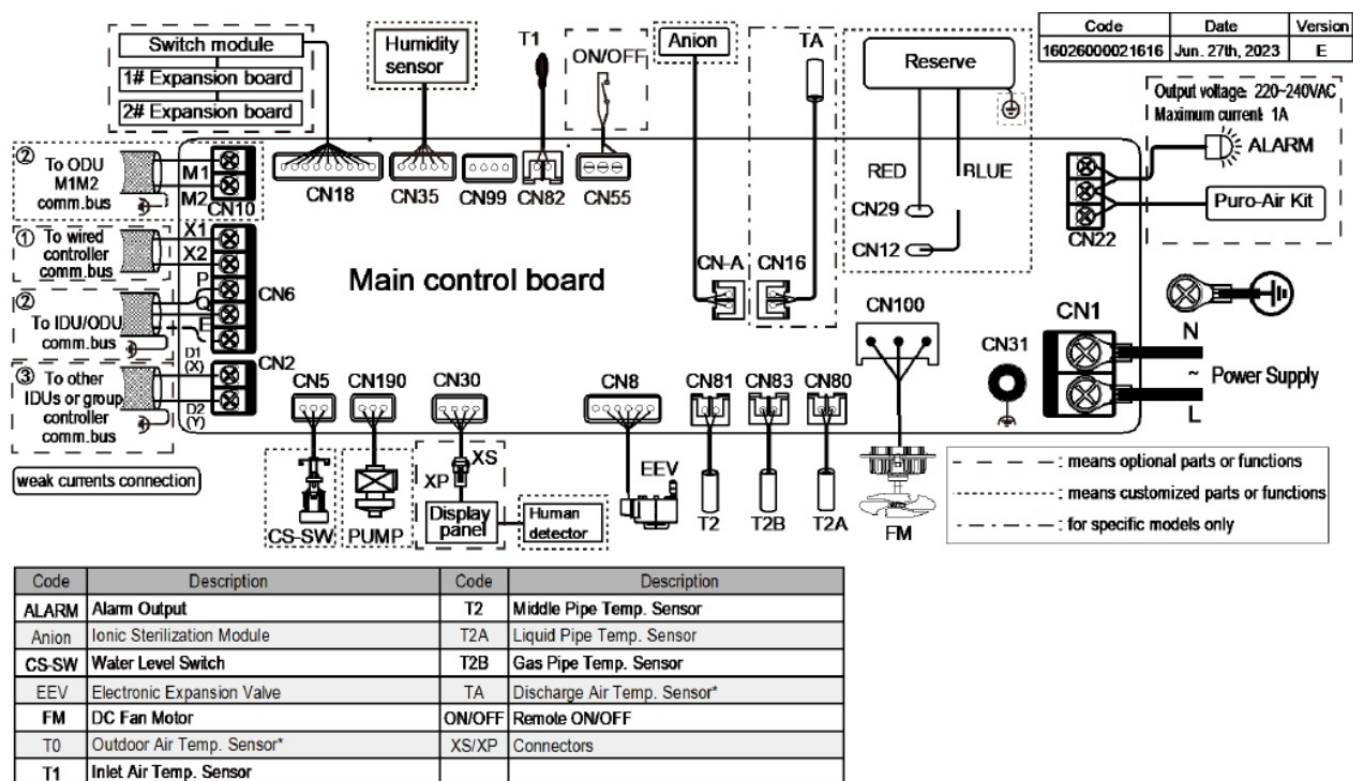
MODEL		A		B
D15÷D56		Φ6.35		Φ12.7
D63		Φ9.52		Φ15.9

Piping Diagram



LEGEND				
1		T1		Inlet Air Temp. Sensor
2		T2A		Liquid Pipe Temp. Sensor
3		T2		Middle Pipe Temp. Sensor
4		T2B		Gas Pipe Temp. Sensor

Wiring Diagram



* Indicates that this sensor is only available for Fresh Air Processing Unit.

Notes for installers and service engineers

• Caution

- All installation, servicing and maintenance must be carried out by competent and suitably qualified, certified and accredited professionals and in accordance with all applicable legislation.
- Units should be grounded in accordance with all applicable legislation. Metal and other conductive components should be insulated in accordance with all applicable legislation.
- Power supply wiring should be securely fastened at the power supply terminals loose power supply wiring would represent a fire risk.
- After installation, servicing or maintenance, the electric control box cover should be closed. Failing to close the electric control box cover risks fire or electric shock.
- The dotted lines indicate the field wiring or optional function
- D1D2 communication ports are used for group control communication. When connecting the group controller, the D1D2 port of the indoor units that are to be group controlled must be connected in daisy chain, and the group controller must be connected to the X1X2 port of one of the indoor units in the group control, and set to group control mode. In addition, D1D2 communication ports can also be connected to the central controller.

Capacity Tables

Cooling Capacity Table

MODE L	Indoor air temperature (°C WB/DB)															
	14/20		16/23		18/26		19/27		20/28		22/30		24/32			
	T C	S C	T C	S C	T C	S C	T C	S C	T C	S C	T C	S C	T C	S C	T C	S C
Q4AN-3-XY D 15	1.4	1.3	1.5	1.4	1.5	1.3	1.5	1.3	1.6	1.3	1.6	1.2	1.6	1.1		
Q4AN-3-XY D 22	2.0	1.9	2.1	1.9	2.2	1.9	2.2	1.8	2.3	1.8	2.3	1.7	2.4	1.7		
Q4AN-3-XY D 28	2.5	2.3	2.7	2.4	2.8	2.4	2.8	2.3	2.9	2.3	2.9	2.2	3.0	2.1		
Q4AN-3-XY D 36	3.2	2.9	3.4	3.0	3.6	3.0	3.6	2.9	3.7	2.9	3.8	2.8	3.9	2.7		
Q4AN-3-XY D 45	4.0	3.6	4.3	3.7	4.5	3.8	4.5	3.7	4.6	3.6	4.7	3.4	4.8	3.3		
Q4AN-3-XY D 56	5.0	4.6	5.3	4.7	5.6	4.8	5.6	4.6	5.7	4.5	5.8	4.2	6.0	4.1		
Q4AN-3-XY D 63	5.6	5.2	6.0	5.3	6.3	5.4	6.3	5.2	6.4	5.1	6.5	4.7	6.8	4.6		

• **Abbreviations:**

- **TC:** Total capacity (kW)
- **SC:** Sensible capacity(kW)

Notes: Shaded cells indicate rating condition.

Heating Capacity Table

MODEL	16	18		20		21		22	24
	TC	TC		TC		TC		TC	TC
Q4AN-3-XY D 15	1.9	1.9		1.8		1.7		1.7	1.6
Q4AN-3-XY D 22	2.6	2.6		2.4		2.3		2.3	2.1
Q4AN-3-XY D 28	3.4	3.4		3.2		3.1		3.0	2.8
Q4AN-3-XY D 36	4.2	4.2		4.0		3.8		3.8	3.5
Q4AN-3-XY D 45	5.3	5.3		5.0		4.8		4.7	4.4
Q4AN-3-XY D 56	6.7	6.6		6.3		6.1		5.9	5.5
Q4AN-3-XY D 63	7.5	7.5		7.1		6.9		6.7	6.2

• **Abbreviations:**

- **TC:** Total capacity (kW)

Notes: Shaded cells indicate rating condition.

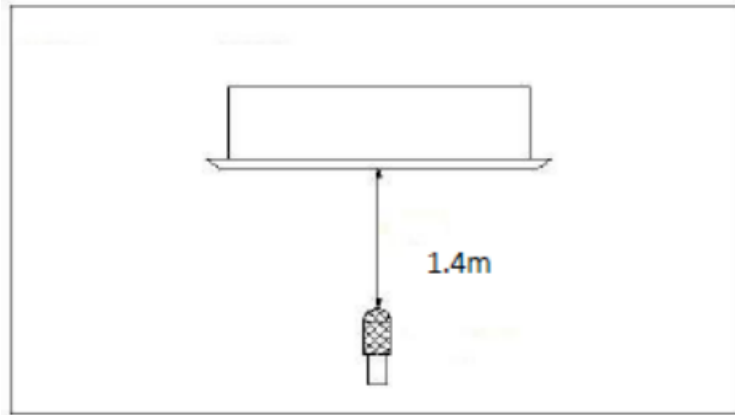
Electrical characteristics

MODEL		Power supply						Indoor fan motors	
		Hz	Volts	Min. volts	Max. volts	MCA	MFA	Rated motor output (kW)	FLA
Q4AN-3-XY D 15		50	220-240	198	264	0.46	15	0.045	0.37
Q4AN-3-XY D 22		50	220-240	198	264	0.46	15	0.045	0.37
Q4AN-3-XY D 28		50	220-240	198	264	0.54	15	0.045	0.43
Q4AN-3-XY D 36		50	220-240	198	264	0.54	15	0.045	0.43
Q4AN-3-XY D 45		50	220-240	198	264	0.61	15	0.045	0.49
Q4AN-3-XY D 56		50	220-240	198	264	0.65	15	0.045	0.52
Q4AN-3-XY D 63		50	220-240	198	264	0.81	15	0.045	0.65

• **Abbreviations:**

- **MCA:** Minimum Circuit Amps MFA: Maximum Fuse Amps FLA: Full Load Amps
- **Voltage range:** Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits. Maximum allowable voltage variation between phases is 2%.
Selection wire size based on the value of MCA.
MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth circuit breaker).

Overall

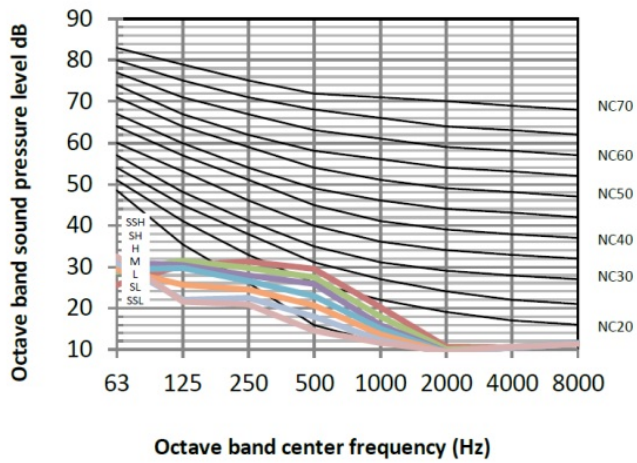


MODEL	Sound pressure levels dB							
		SSH	SH	H	M	L	SL	SSL
Q4AN-3-XY D15		29	28	27	27	26	26	25
Q4AN-3-XY D22		29	28	27	27	26	26	25
Q4AN-3-XY D28		30	29	28	27	26	26	25
Q4AN-3-XY D36		31	30	29	28	27	26	25.5
Q4AN-3-XY D45		36.5	35	33	31	29	28	26.5
Q4AN-3-XY D56		39	38	37	36	35	34	32
Q4AN-3-XY D63		43	42	40	38	36	35	33.5

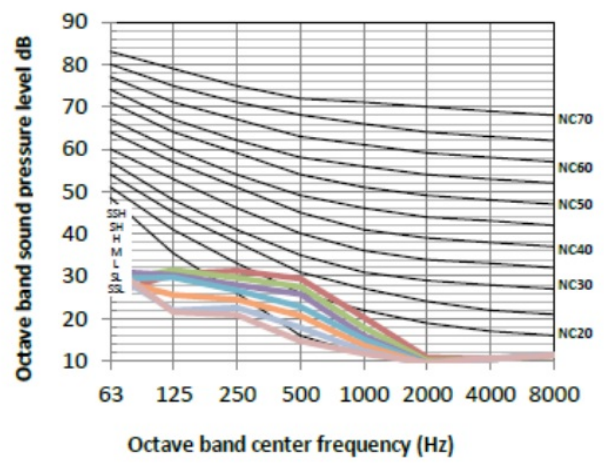
Notes: Sound pressure levels are measured 1.4m below the unit in a semi-anechoic chamber at 0 Pa static pressure. During in-situ operation, sound pressure levels may be higher as a result of ambient noise.

Octave Band Levels

Q4AN-3-XY D15

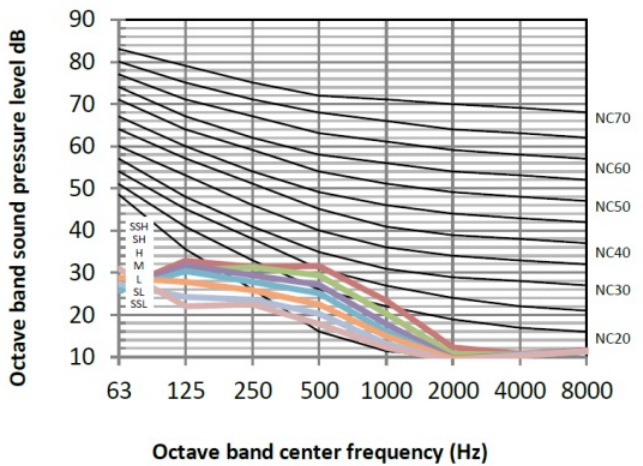


Q4AN-3-XY D22

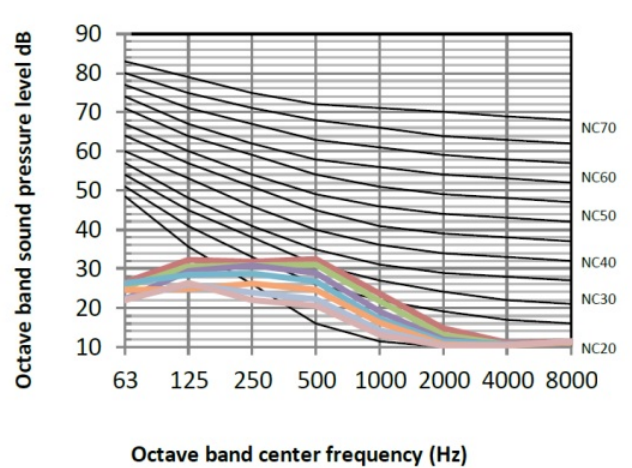


Sound Level

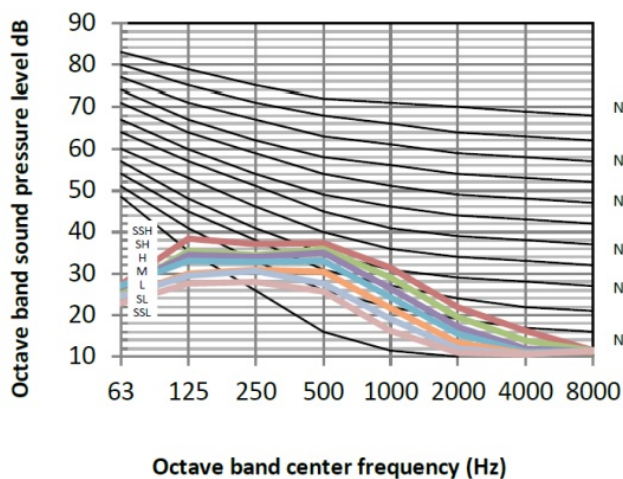
Q4AN-3-XY D28



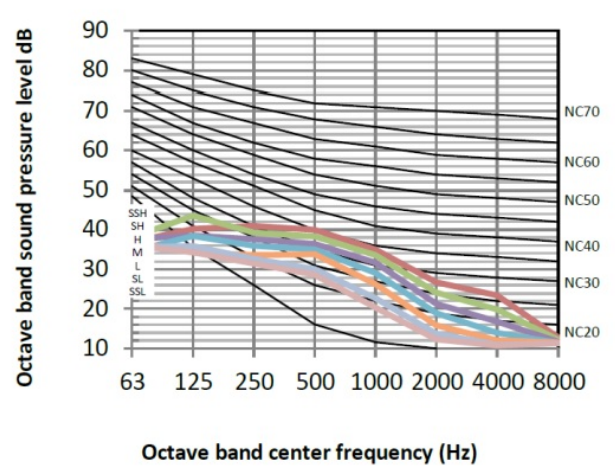
Q4AN-3-XY D36



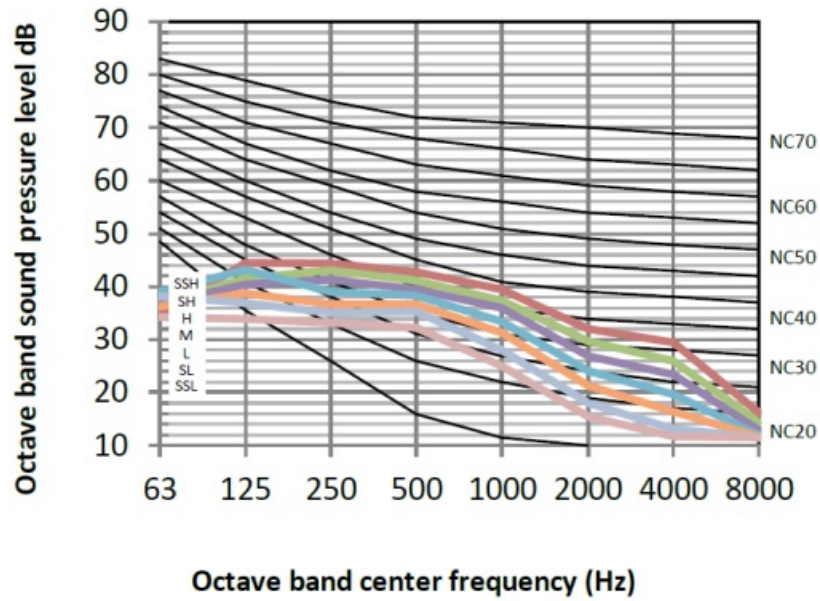
Q4AN-3-XY D45



Q4AN-3-XY D56



Q4AN-3-XY D63



Temperature and Airflow Distributions

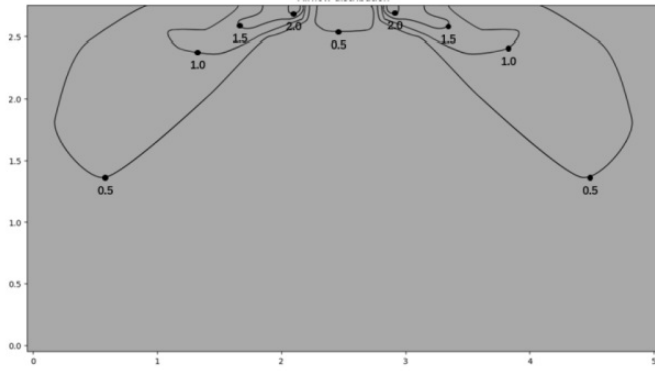
Simulate condition

MODEL NAME		Room size (m)	Ceiling height (m)	Flow angle (Cooling /Heating)	Placing
Q4AN-3-XY D15		5*5	2.7	40°/70°	Center
Q4AN-3-XY D22		5*5	2.7	40°/70°	Center
Q4AN-3-XY D28		6*6	2.7	40°/70°	Center
Q4AN-3-XY D36		6*6	2.7	40°/70°	Center
Q4AN-3-XY D45		6*6	2.7	40°/70°	Center
Q4AN-3-XY D56		6*6	2.7	40°/70°	Center
Q4AN-3-XY D63		6*6	2.7	40°/70°	Center

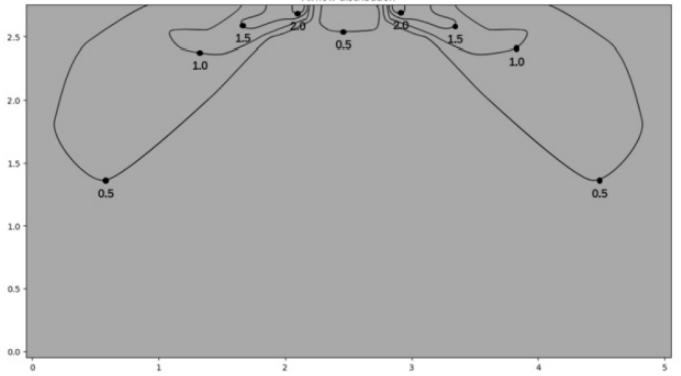
Note: These figures and videos are based on software simulation. They show typical temperature and airflow distributions in the conditions above. In the actual installation, they may differ from these figures and videos under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

Airflow distributions – Cooling (after 300s)

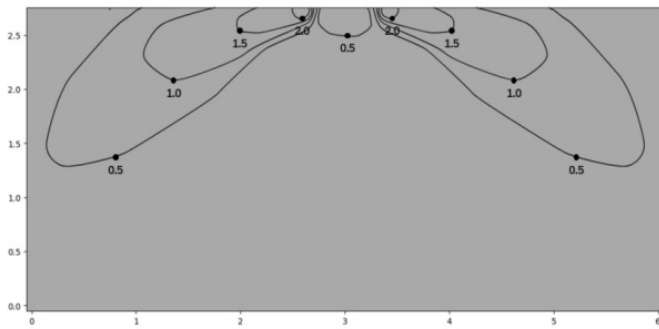
Q4AN-3-XY D15



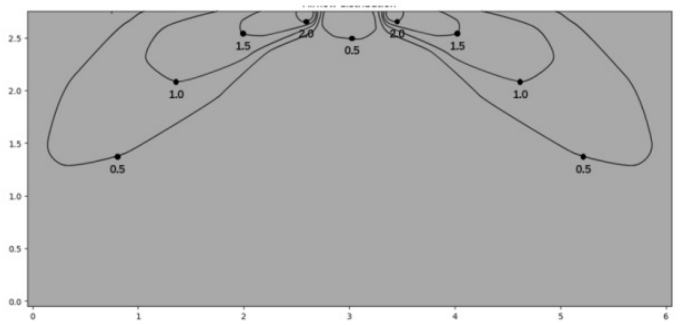
Q4AN-3-XY D22



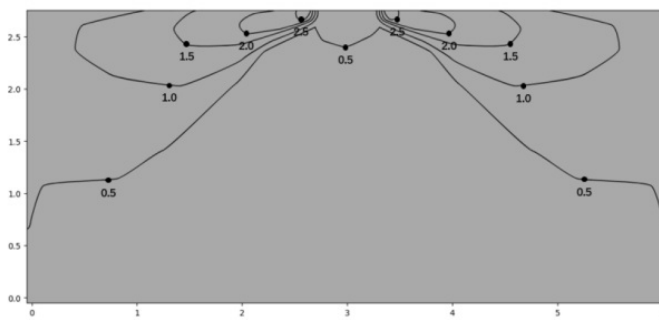
Q4AN-3-XY D28



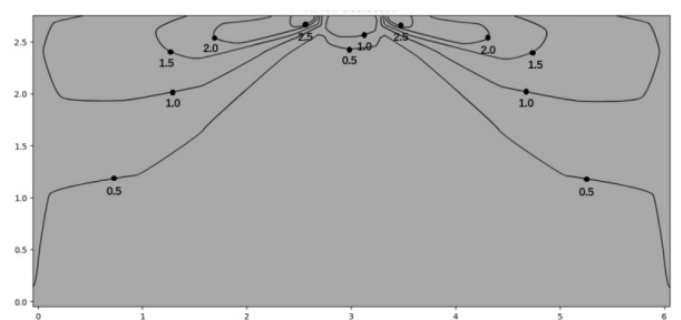
Q4AN-3-XY D36



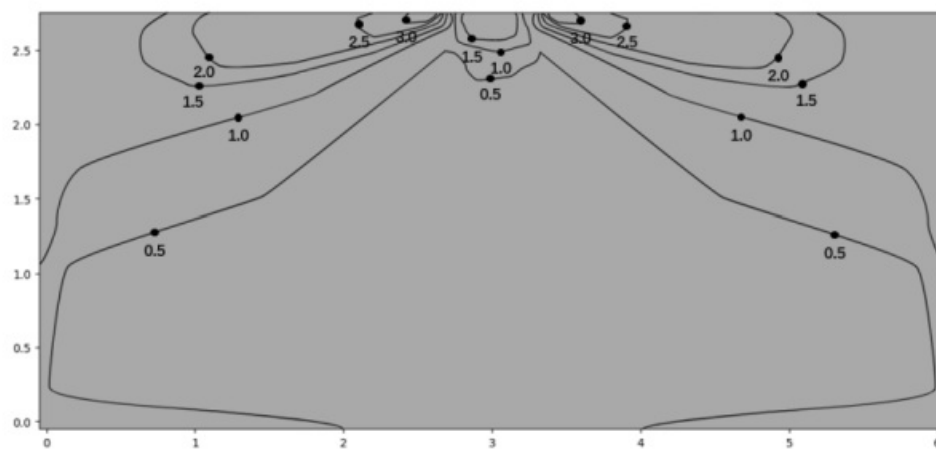
Q4AN-3-XY D45



Q4AN-3-XY D56

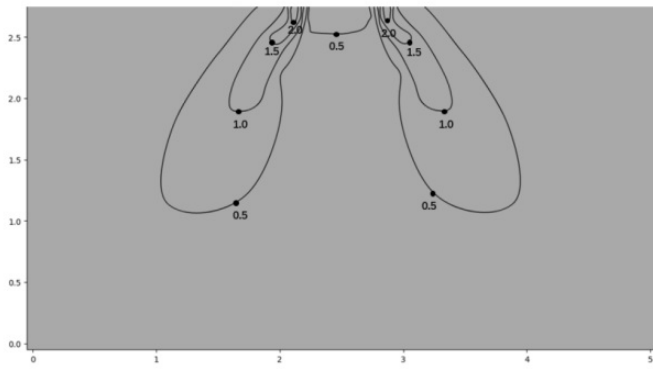


Q4AN-3-XY D63

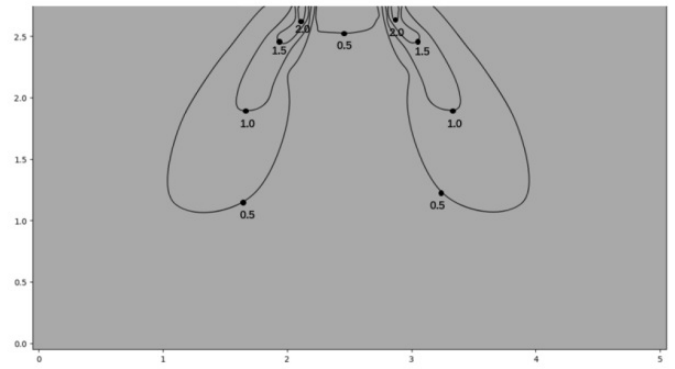


Airflow distributions – Heating (after 300s)

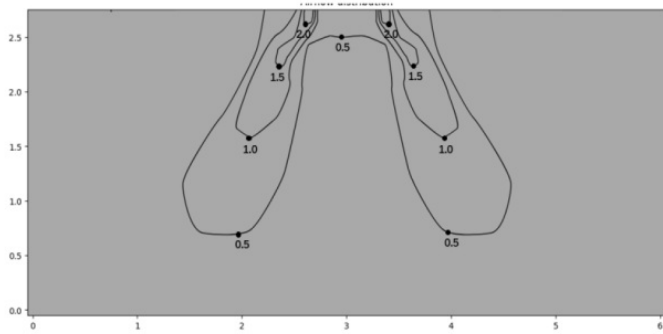
Q4AN-3-XY D15



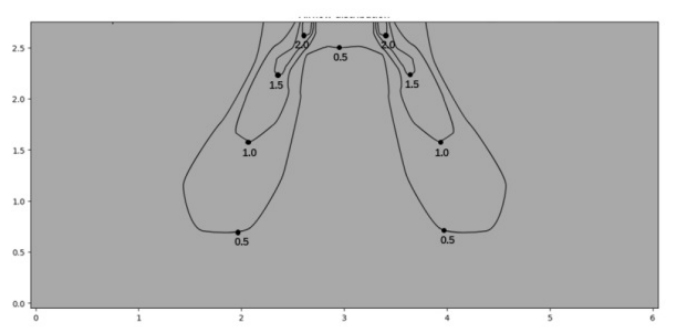
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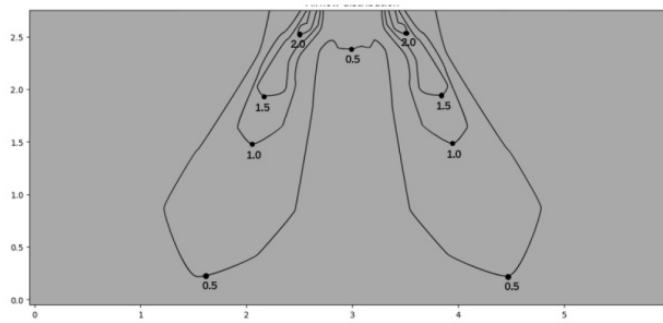
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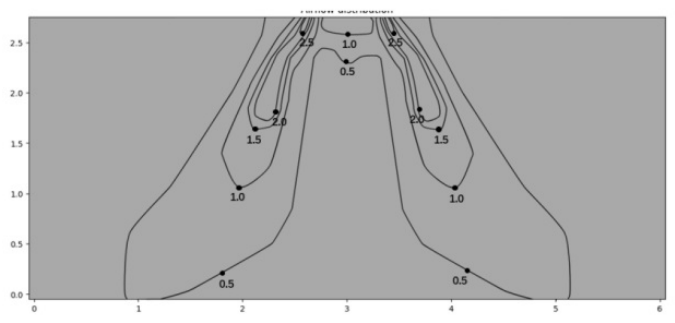
Q4AN-3-XY D36



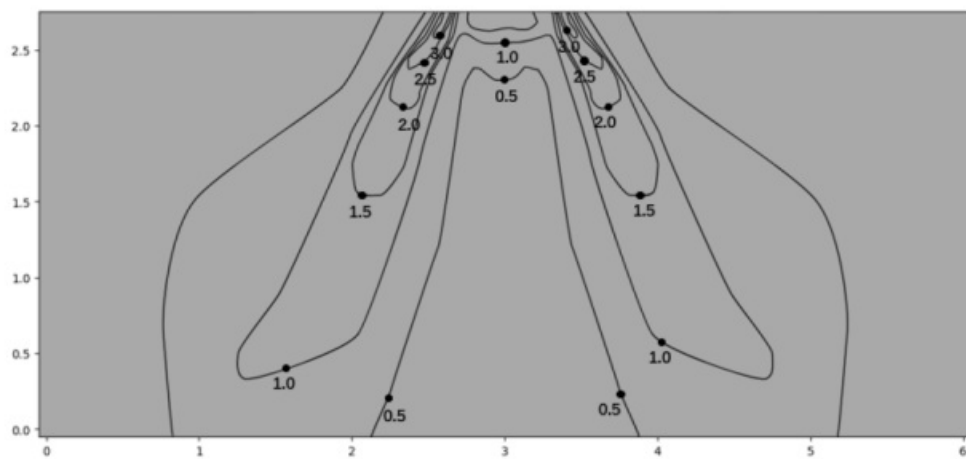
Q4AN-3-XY D45



Q4AN-3-XY D56

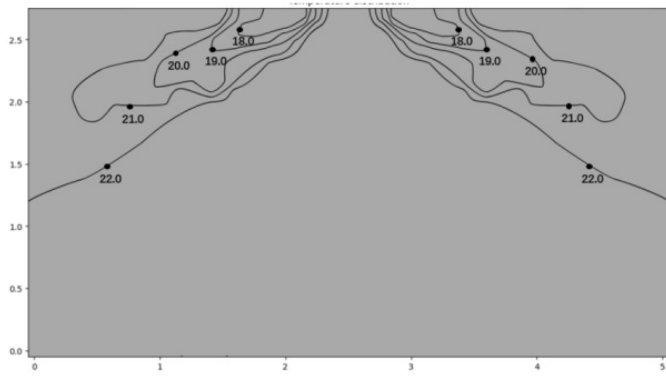


Q4AN-3-XY D63

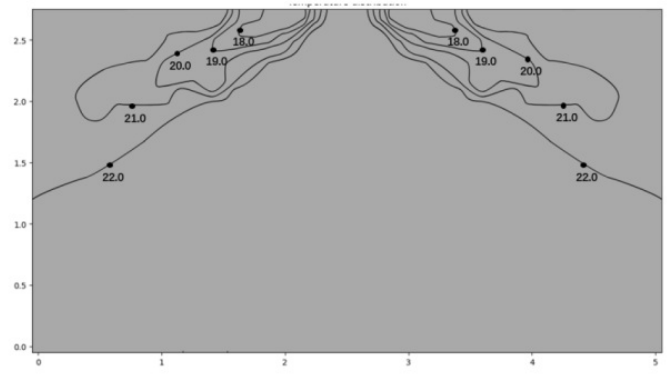


Temperature distributions – Cooling (after 300s)

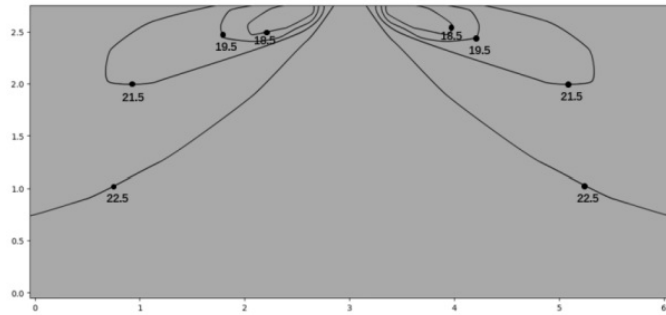
Q4AN-3-XY D15



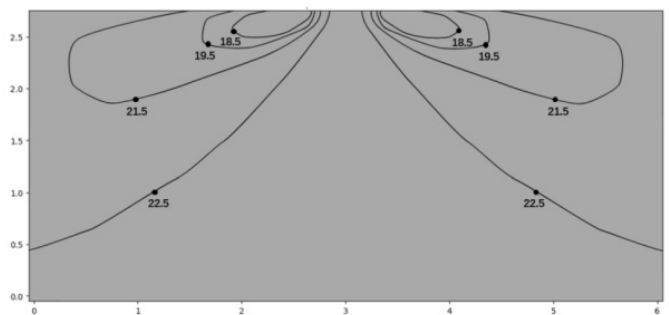
Q4AN-3-XY D22



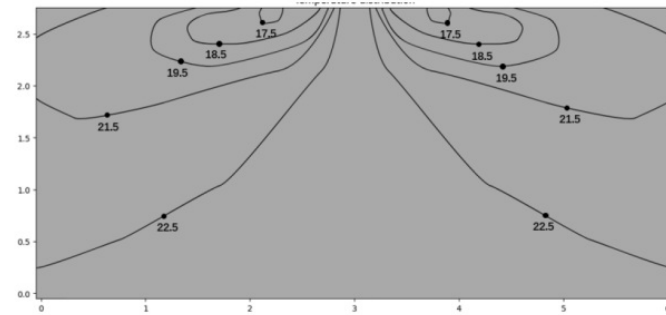
Q4AN-3-XY D28



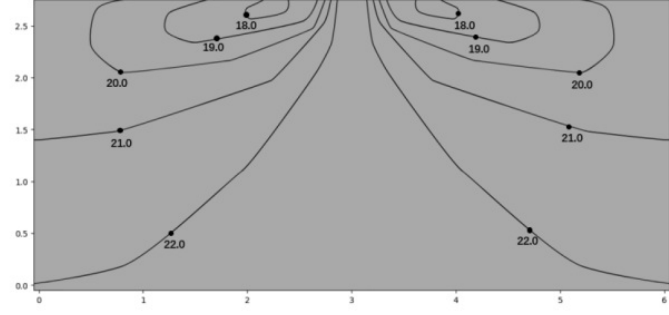
Q4AN-3-XY D36



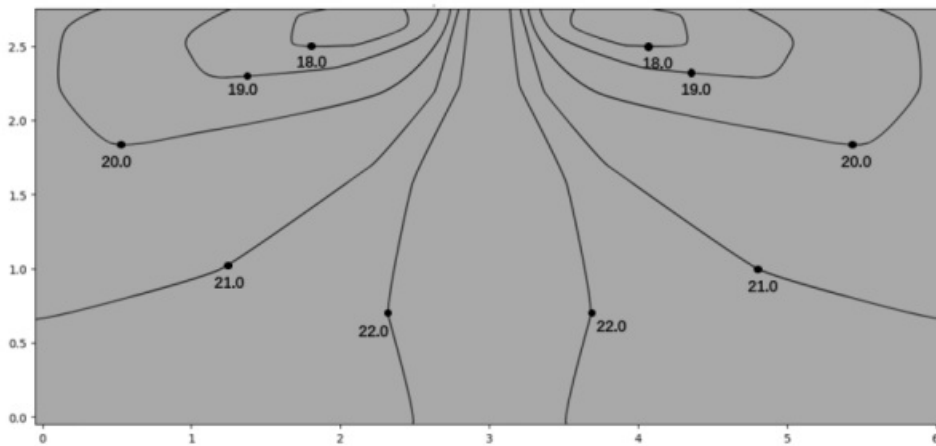
Q4AN-3-XY D45



Q4AN-3-XY D56

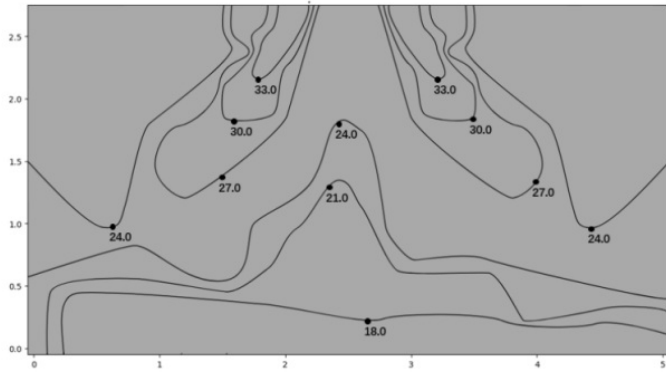


Q4AN-3-XY D63

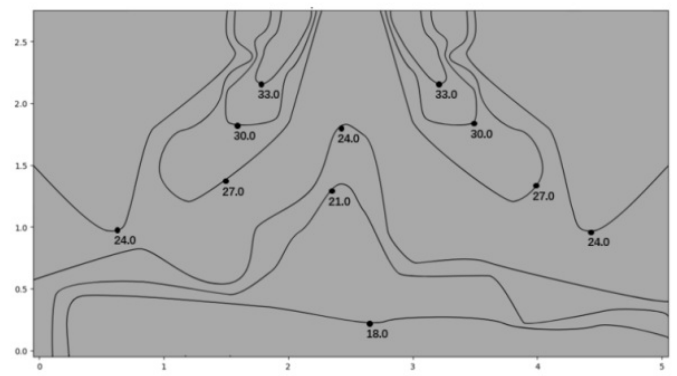


Temperature distributions – Heating (after 300s)

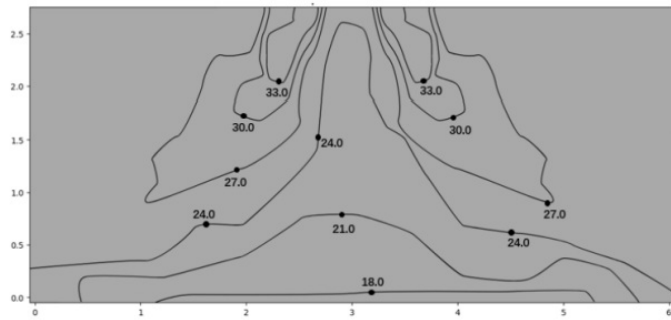
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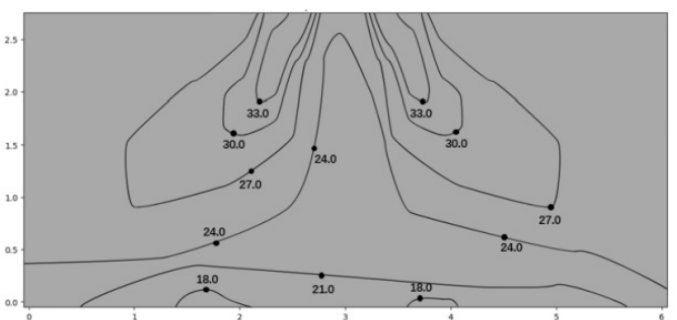
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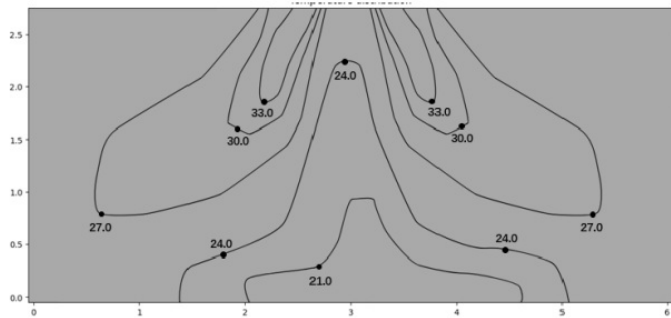
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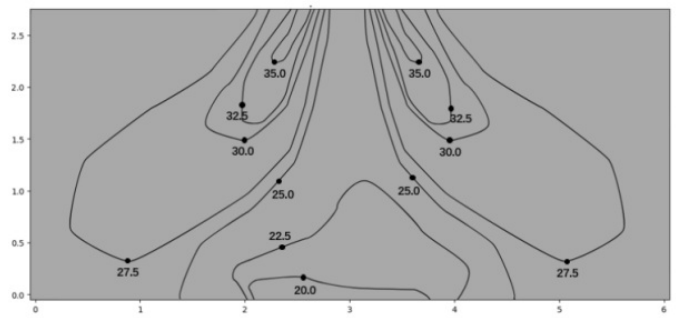
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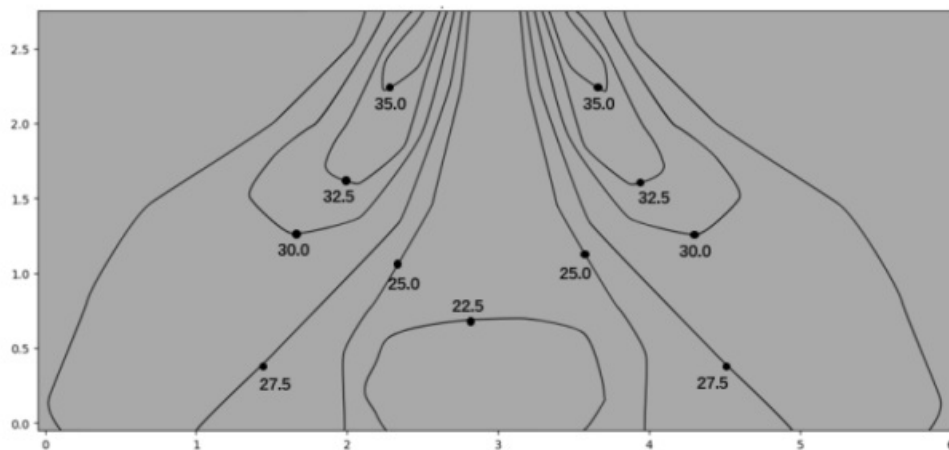
Q4AN-3-XY D45



Q4AN-3-XY D56



Q4AN-3-XY D63



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Documents / Resources

	CLiveT T D63 Compact 4 Way Cassette [pdf] Owner's Manual T D63 Compact 4 Way Cassette, T D63, Compact 4 Way Cassette, 4 Way Cassette, Cassette
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References

- [User Manual](#)

Manuals+. [Privacy Policy](#)

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