

D8S
50/60Hz Heat Pump
Inverter
Single Phase
2.7kW to 7.0 kW



Engineering Databook



The SC series 50/60Hz Split--System of inverter Heat Pumps are designed for quiet, reliable heating during the winter and cooling during the summer. These heat pump systems provide economy of operation through energy conservation when used with components designated by the manufacturer. The SC series recovers heat for indoor comfort from outdoor air during the heating season and, by automatically reversing the refrigerant system, remove indoor heat and excess humidity during the cooling season.



Caution: Risk of fire

FEATURES AND BENEFITS

AVAILABLE SIZES:

Nominal capacity are available from 2.7kW through 7.0kW to meet the needs of residential applications.

CERTIFICATION:

All models are registered with VDE mark and CE.

ELECTRICAL RANGE

Units offered in single phase 220V ~ 240V.

ENVIRONMENTAL REFRIGERANT

The D8S uses R32, the environmentally sound refrigerant that provides home owners with additional peace of mind because R32 has zero ozone -- depletion potential, and lower GWP.

UNIT DESIGN:

The copper tube(I-G), coated fin, enhanced sine wave, aluminum fin coil is designed for optimum heat transfer and corrosion protection.

SOUND SHIELD

All ODU have compressor sound SHIELD for noise attenuation.

OPERATING RANGE:

Minimum outdoor operating ambient in cooling mode is -15°C, and maximum is 46°C. Minimum outdoor operating range for heating mode is -15°C, maximum is 24°C.

HIDDEN DISPLAY

The lights can be turned off by remote controller when the unit is running.

2-WAY DRAINAGE CONNECTION

Both left and right sides of indoor unit are possible for drainage hose connection, easy for installation.

LOUVER POSITION MEMORY

When starting the unit again after shutting down, its louver will restore to the angle originally set by the user.

FEATURES AND BENEFITS(CONT.)

REFRIGERANT LEAKAGE DETECT

- (1) Only be active in cooling mode.
- (2) If the refrigerant have leakage, the display area will be showed "EC" and AC will be turned off.
- (3) The refrigerant leakage detect function can be better prevent the compressor being damaged by refrigerant leakage or compressor overload.

8°C HEATING

- (1) In heating operation, the preset temperature of the air conditioner can be as lower as 8°C, which keeps the room temperature steady at 8°C and prevents household things freezing when the house is unoccupied for a long time in severe cold weather.
- (2) This function can be memorized even if the power fails.

QUIET DESIGN

Select SILENCE on remote controller to enter silence operation. (Press the button for 2 second) . Indoor fan will run at super breeze, which can keep indoor in a very low noise level, make a comfortable feeling for sleep.

FOLLOW ME

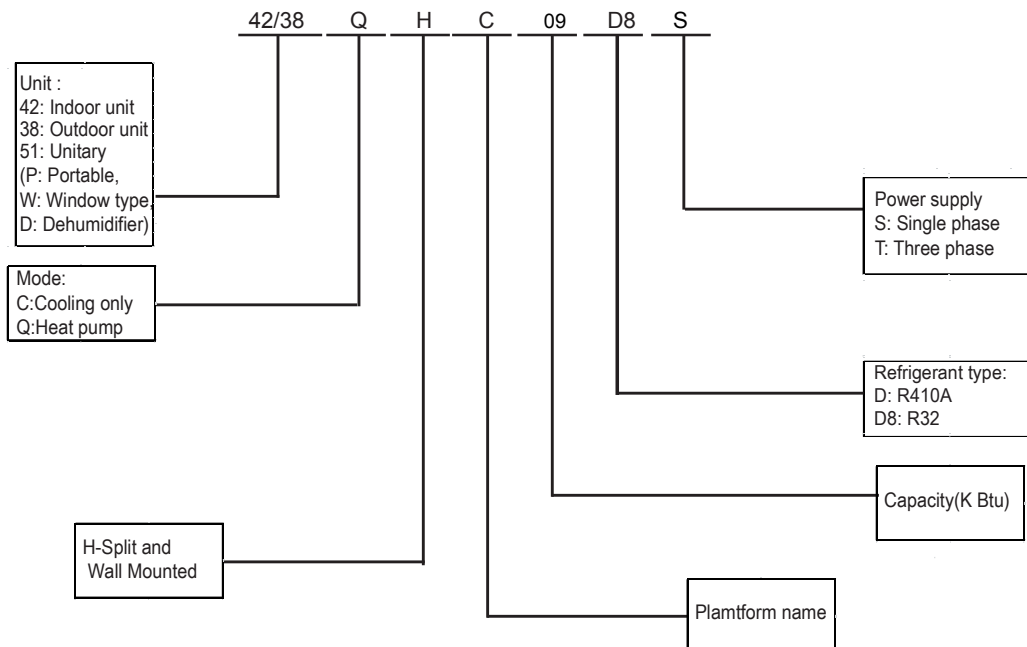
- (1) With this function, the room temperature sensor built in remote controller is activated and replaces the one in indoor unit. Then the air conditioner will regulate the room temperature based on the temperature around the remote controller, just like the air conditioner is following the user.
- (2) Pressing the "Follow me" button on remote controller to active this function. Then the remote controller will send PCB the signal every three minutes. If the PCB doesn't receive the signal for 7 minutes or pressing "Follow me" button again, the follow me function will terminate.

LOW AMBIENT COOLING

The outdoor fan speed can be changed according to the condenser temperature and the AC can run smoothly under the temperature as low as -15 °C.

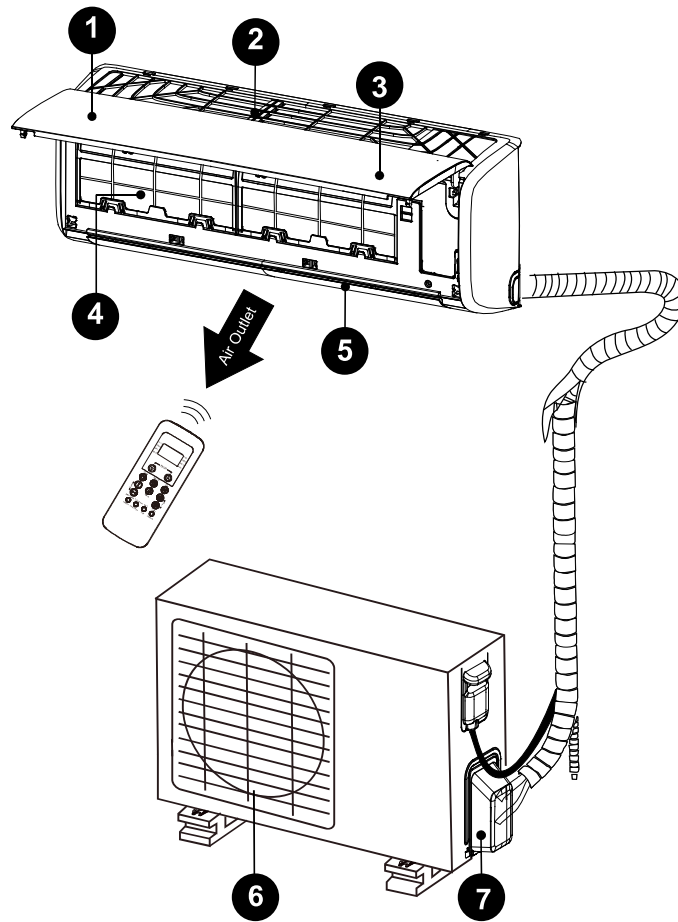
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PRODUCT NUMBER NOMENCLATURE



PART NAMES

■ Indoor



- 1. Front Panel
- 2. Air Inlet
- 3. Display
- 4. Air Filter
- 5. Louver
- 6. Grille
- 7. Service valve

■ Outdoor

■ Display symbols



Display symbol represent:

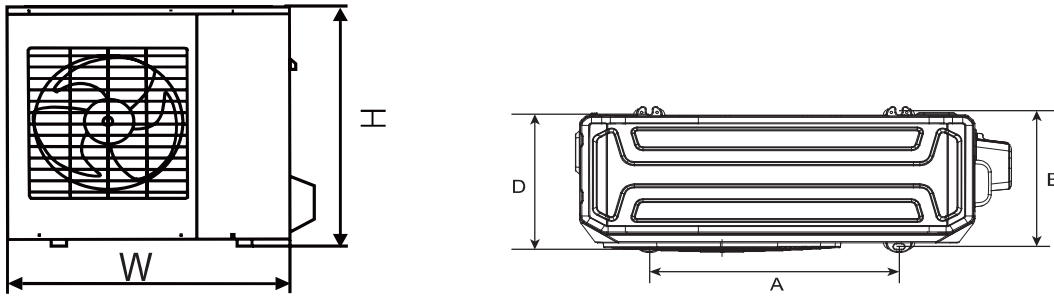
- **25** Shows setting temperature in normal operation.
- **25** Shows room temperature in FAN mode.
- **0n** Display it for three seconds when timer on is set, or activate Air purification*, Swing, Turbo and Silence* fuction.
- **0f** Display it for three seconds when timer off is set, or cancel Air purification*, Swing, Turbo and Silence* fuction.
- **df** Defrosting operation*
- **cf** Cold draft prevention*
- **sc** Self clean*
- **fp** Freeze Protection*
- **ECO** When ECO fuction* is activated, the display illuminates in sequence as ? **E** -- **C** -- **0** -- setting temperature -- **E** ...? in one second interval.
- WIFI function (only for the model with WIFI module)*

[*] Model dependent

Note: A guide on using the infrared remote controller refer to the remote controller manual.

Outdoor Unit Mounting Dimensions

The mounting dimensions vary among different outdoor units.
The fixing bolt head diameter should be more than 10mm.



Outdoor Unit Dimension (mm)			Mounting Dimension (mm)		
Outdoor Unit	W	H	D	A	B
38QHC009D8S*	770	555	300	487	298
38QHC012D8S*	770	555	300	487	298
38QHC018D8S*	800	554	333	515	340
38QHC024D8S*	845	702	363	540	350

Piping Work

	Minimum length to reduce abnormal vibration & noise	Chargeless length	Additional charge per meter	
			Liquid side:φ6.35mm	Liquid side:φ9.52mm
R32	3m	5m	12g	24g

* Please use tools for R32 system.

NOTE

- Extended pipe length will affect the capacity and energy efficiency of the unit.
- The nominal efficiency is tested based on the pipe length of 5 meter.
- When the pipe length is over 5m, the additional refrigerant should be added according to the pipe length.
- The max. pipe length is recommended as below.

Models	R32 Inverter	
	Max. pipe length(m)	Max. height difference(m)
QHC09/QHC12	25	10
QHC18	30	20
QHC24	40	20

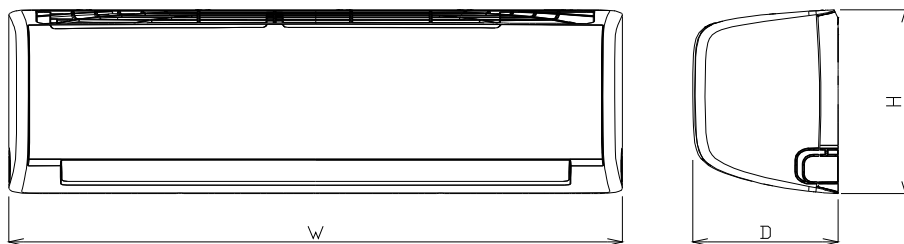
* Please use tools for R32 system.

Align the Center to tighten the flare nut and finish connection using two wrenches.

Tightening torque for flaring connection is as below.

	Outer diam.	Tightening torque(N.cm)	Additional tightening torque(N.cm)
	φ6.35mm	1500 (153kgf.cm)	1600 (163kgf.cm)
φ9.52mm	2500 (255kgf.cm)	2600 (265kgf.cm)	
φ12.7mm	3500 (357kgf.cm)	3600 (367kgf.cm)	
φ15.88mm	4500 (459kgf.cm)	4700 (479kgf.cm)	

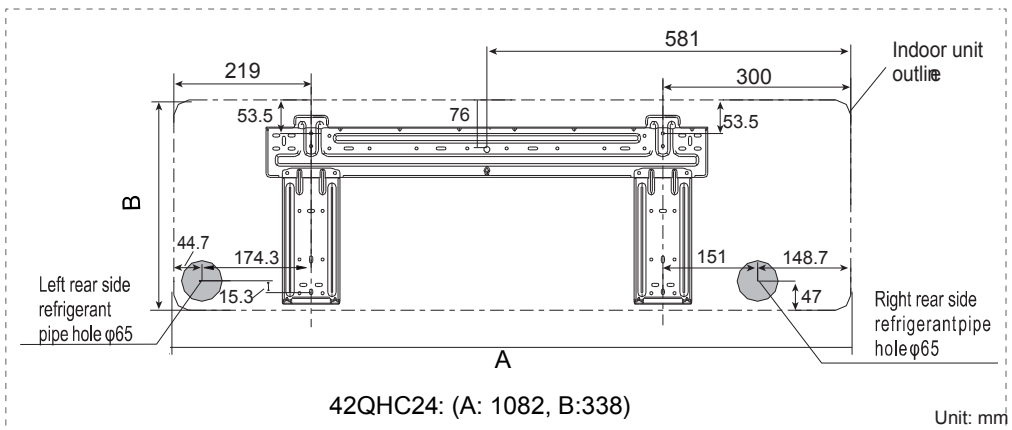
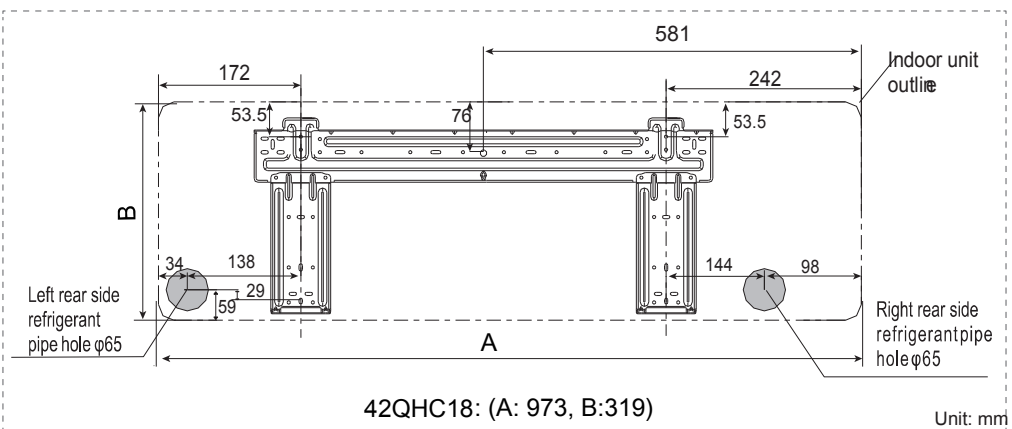
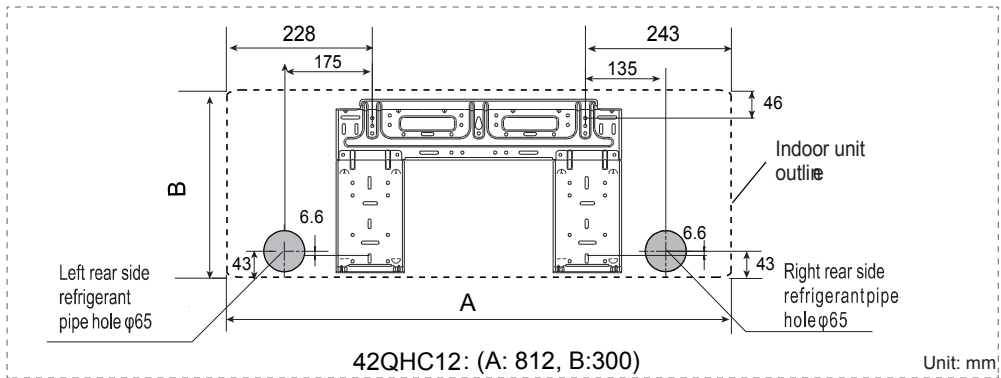
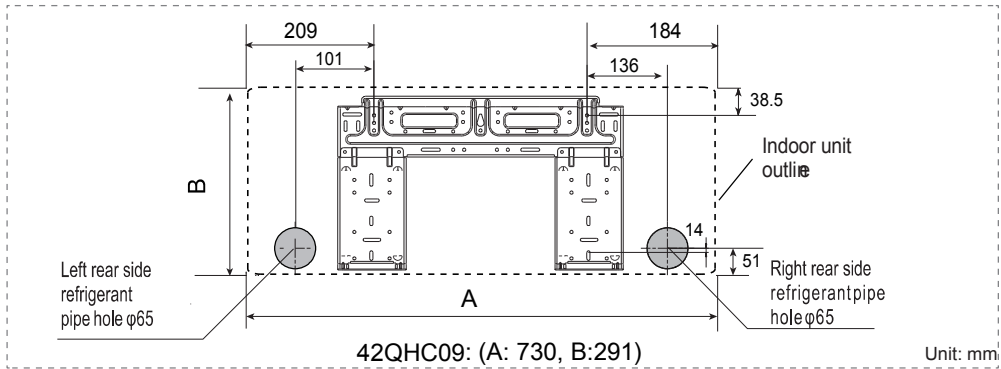
IDU Dimension



Model	W	D	H
42QHC09	730	192	291
42QHC12	812	192	300
42QHC18	973	218	319
42QHC24	1082	225	338

Indoor Unit Mounting Dimensions

The holes for fixing anchors should be 5mm.



Wiring Work

Model	Rated Current(A)	Fuse Rating(A)	Power input cord (with Min. Crosse section)	Connective Cable (with Min. Crosse section)
38QHC09/38QHC12	10.0	16	3*1.5mm ²	5*1.5mm ²
38QHC18	12.0	20	3*1.5mm ²	5*1.5mm ²
38QHC24	18.0	30	3*2.5mm ²	5*2.5mm ²

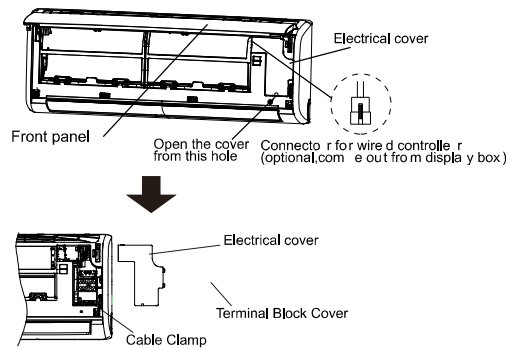
NOTICE:

- All power wires must be sized in according with national, state and local electrical wiring code. Consult local building codes and National Electrical Code for special requirements.
- The outdoor power cord and interconnecting cable type should be H07RN-F.
- The rated current of appliance is indicated on the nameplate.



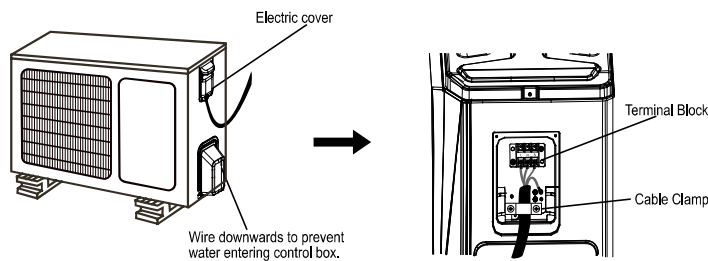
Indoor Wire Connection

- Lift the indoor unit front panel.
- Open the indoor unit electrical cover with a screwdriver through the hole, remove the terminal block cover by hand and remove the cable clamp by loosening the screws.
- Pass the connecting wires from the back of indoor unit and connect to the indoor terminal block.

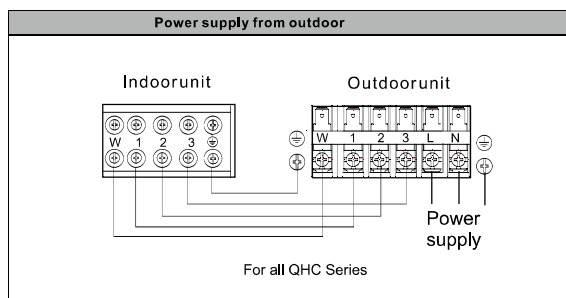


Outdoor Wire Connection

- Remove the electrical cover and cord clamp by loosening the screws.
- Connect wires to the outdoor terminal block by same sequence to indoor unit.



Connection Diagrams



ELECTRICAL DATA

MODEL	V/PH	OPERATING VOLTS*		COMPRESSOR		INDOOR FAN MOTOR		OUTDOOR FAN MOTOR		MRC	MAX FUSE** OR CKT BKR AMPS
		Max.	Min.	MODEL	RLA	MODEL	FLA	MODEL	FLA		
QHC09	220-240 / 1	254	207	KSN98D22UFZ	5.30	ZKFP-20-8-6	0.22	ZKFN-40-8-1L	0.51	10.0	16
QHC12				KSN98D22UFZ	5.30	ZKFP-20-8-6	0.22	ZKFN-40-8-1L	0.51	10.0	16
QHC18				KSM135D23UFZ	7.10	ZKFP-30-8-3	0.27	ZKFN-40-8-1L	0.51	12.0	20
QHC24				KTF235D22UMT	9.40	ZKFP-58-8-1	0.34	ZKFN-50-8-2	0.55	18.0	30

*Permissible limits of the voltage range at which the unit will operate satisfactorily.

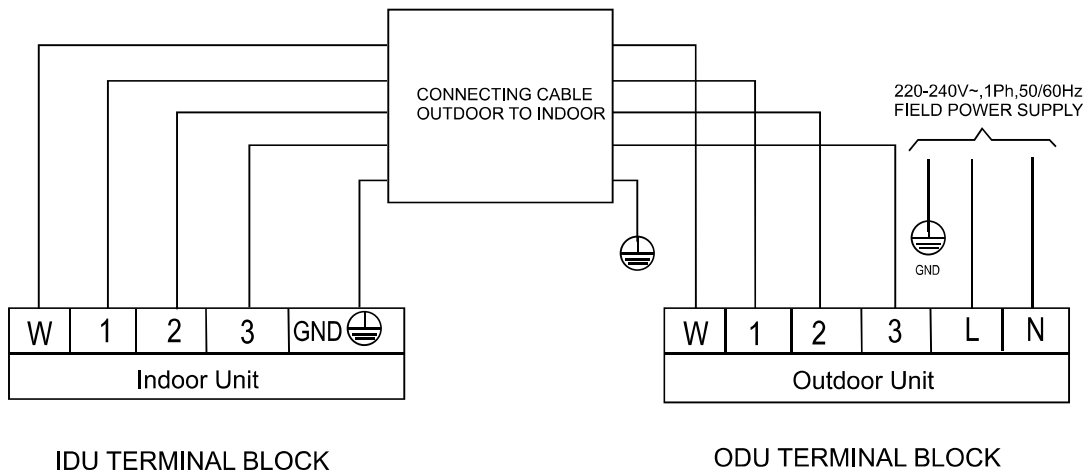
**Time—Delay fuse.

FLA —Full Load Amps

MRC —Maximum Running Current

RLA —Rated Load Amps

CONNECTION DIAGRAMS



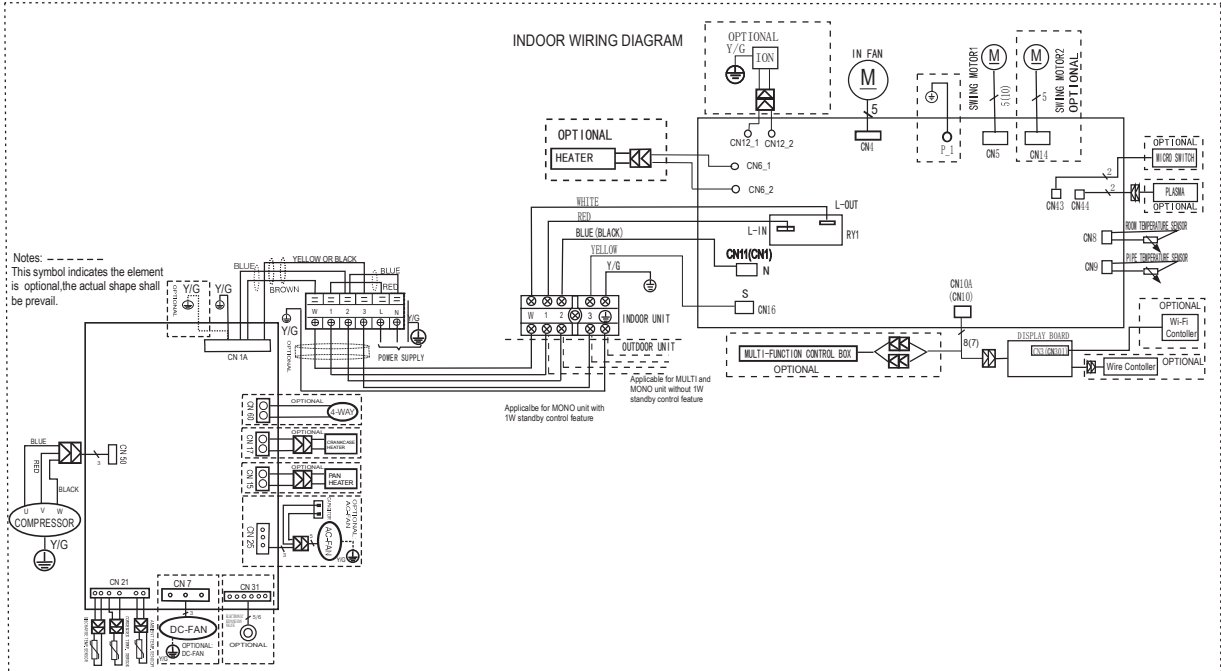
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Notes:

1. Do not use thermostat wire for any connection between indoor and outdoor units.
2. All connections between indoor and outdoor units must be as shown. The connections are sensitive to polarity and will result in a fault code.

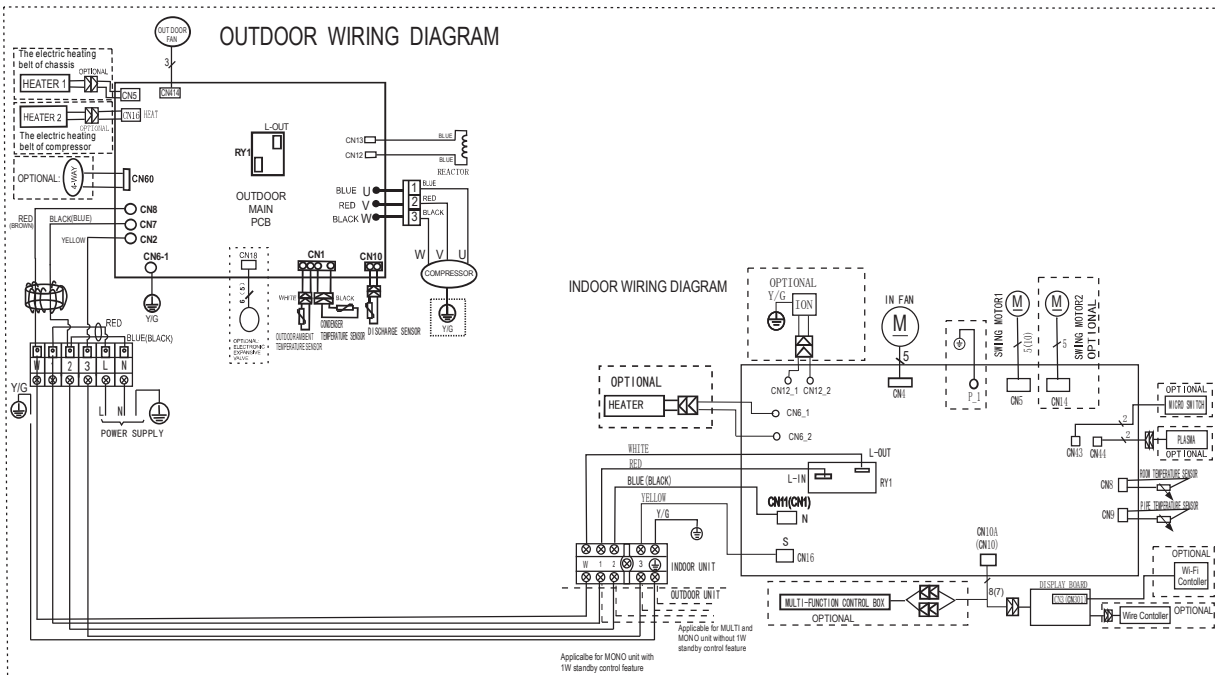
WIRING DIAGRAMS

Wiring diagram 42/38QHC009D8S* & 42/38QHC012D8S*



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Wiring diagram 42/38QHC018D8S* & 42/38QHC024D8S*



Specification of 15C high wall (R32)

OUTDOOR UNIT		38QHC009D8S*	38QHC012D8S*	38QHC018D8S*	38QHC024D8S*
Cool capacity	kW	2.70 (1.1-3.6)	3.52 (1.1-3.9)	5.28 (2.3-5.7)	7.04 (2.8-8.1)
Heating capacity	kW	3.00 (1.0-3.9)	3.80 (1.0-4.2)	5.50 (2.2-5.8)	7.50 (2.8-9.2)
Heating capacity at -7℃	kW	2.9	3.0	3.8	6.3
Heating capacity at -15℃	kW	2.5	2.6	3.2	5.8
Heating capacity at -20℃	kW	2.0	2.0	2.8	5.0
P design capacity cooling	kW	2.70	3.52	5.28	7.04
P design capacity heating(warmer)	kW	3.00	3.50	5.40	6.40
P design capacity heating(average)	kW	2.50	3.00	4.10	5.20
Temp range cooling	℃	-15~46	-15~46	-15~46	-15~46
Temp range heating	℃	-15~24	-15~24	-15~24	-15~24
SEER / SCOP(warmer) / SCOP(average)	W/W	7.2 / 5.1 / 4.0	6.7 / 5.1 / 4.0	7.2 / 5.1 / 4.0	6.7 / 5.1 / 4.0
Energy label		A++ / A+++ / A+	A++ / A+++ / A+	A++ / A+++ / A+	A++ / A+++ / A+
Yearly energy consumption	kWh	131 / 824 / 875	184 / 961 / 1050	257 / 1483 / 1435	368 / 1757 / 1820
EER/COP	W/W	3.46 / 3.75	2.93 / 3.45	3.34 / 3.74	3.06 / 3.41
Voltage, Hz		220-240V~, 50/60Hz	220-240V~, 50/60Hz	220-240V~, 50/60Hz	220-240V~, 50/60Hz
Standard current (cooling)	A	5.1	5.3	7.0	10.1
Standard input (cooling)	W	780	1200	1580	2300
Standard current (heating)	A	3.6	4.8	6.6	9.7
Standard input (heating)	W	800	1100	1470	2200
Rated current	A	10.0	10.0	12.0	18.0
Rated input	W	2200	2200	2650	3950
Refrigerant amount	kg	0.70	0.80	1.25	1.60
Compressor model		KSN98D22UFZ	KSN98D22UFZ	KSM135D23UFZ	KTF235D22UMT
Refrigerant oil / oil quantity (ESTER OIL RB74AF)	ml	370	370	450	670
Liquid side/ Gas side	mm(inch)	Φ6.35/Φ9.52 (1/4"/3/8")	Φ6.35/Φ9.52 (1/4"/3/8")	Φ6.35/Φ12.7 (1/4"/1/2")	Φ9.52/Φ15.9 (3/8"/5/8")
Standard piping length	m	5	5	5	5
Min piping length	m	3	3	3	3
Max piping length	m	25	25	30	40
Max difference	m	10	10	20	20
Additional charge	g/m	12	12	12	24
INDOOR UNIT		42QHC009D8S*	42QHC012D8S*	42QHC018D8S*	42QHC024D8S*
Indoor fan motor Input	W	22	22	36	60
Indoor fan motor max current	A	0.5	0.5	0.5	0.7
Sound power level	dB(A)	53	54	57	63
Sound pressure level (high/med/low/silence)	dB(A)	39/35/31/22	40/35/31/22	43/39/35/24	48/44/39/29
Air flow (high/med/low/silence)	m ³ /h	440/360/280/150	510/420/330/170	750/630/510/330	1100/920/750/450
Weight (Net/Gross)	kg	7.5 / 10.0	8.5 / 12.0	11.0 / 16.0	13.5 / 18.5
Dimensions (WxDxH)	mm	730×192×291	812×192×300	973×218×319	1082×225×338
Packing (WxDxH)	mm	800×275×375	880×275×385	1055×305×405	1165×315×420
OUTDOOR UNIT		38QHC009D8S*	38QHC012D8S*	38QHC018D8S*	38QHC024D8S*
Sound power level	dB(A)	63	64	65	69
Sound pressure level	dB(A)	54	54	55	58
Airflow	m ³ /h	1900	1900	2100	2700
Weight (Net/Gross)	kg	27.0 / 29.5	27.0 / 29.5	38.0 / 41.0	52.5 / 56.0
Dimensions (WxDxH)	mm	770×300×555	770×300×555	800×333×554	845×363×702
Packing (WxDxH)	mm	900×348×615	900×348×615	920×390×615	965×395×765

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Note

* Sound data @ cooling mode

* -7℃/-15℃/-20℃ heating @ free frequency

CAPACITY TABLE

Trend of total & sensible Heat Capacity / Indoor & Outdoor Air Temperature

Product models: QHC009D8S*

Specification of product at standard condition.

Standard Condition	Indoor	27°CDB/19°CWB	Total Cooling Capacity(TC)	2700 W
	Outdoor	35°CDB/24°CWB	Sensible Heat Capacity(SHC)	1996 W

Cooling	Outdoor conditions (DB)						
	(W)	25°C	30°C	35°C	40°C	45°C	50°C
Indoor Conditions	TC	2595	3026	2988	2586	2082	1499
	SC	1888	2246	2280	2039	1696	1253
	Input	792	1054	1208	1221	1143	939
21/15°C DB/WB	TC	2781	3259	3264	2879	2359	1712
	SC	2003	2384	2440	2215	1886	1436
	Input	793	1063	1224	1243	1169	964
24/17°C DB/WB	TC	2977	3583	3600	3127	2496	1760
	SC	2171	2606	2661	2386	1986	1463
	Input	809	1084	1249	1269	1194	984
27/19°C DB/WB	TC	3033	3778	3955	3597	3007	2206
	SC	2057	2554	2688	2490	2156	1673
	Input	800	1090	1272	1308	1242	1032
32/23°C DB/WB	TC	4017	4069	4619	2986	2548	2507
	Input	1253	1273	1465	1263	1198	1290
	TC	3782	3861	4469	2838	2675	2412
18/-°C DB/WB	Input	1282	1273	1490	1344	1325	1417
	TC	3762	3900	4430	2696	2475	2466
20/-°C DB/WB	Input	1317	1319	1528	1344	1299	1394
	TC	3498	3793	4226	2289	2500	2381
22/-°C DB/WB	Input	1218	1309	1530	1340	1308	1462

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Standard Condition	Indoor	20°CDB/ -°CWB	Total Cooling Capacity(TC)	3000 W
	Outdoor	7°CDB/ 6°CWB		

Heating	Outdoor conditions (DB)						
	(W)	12°C	7°C	4°C	0°C	-4°C	-7°C
15/-°C DB/WB	TC	4017	4069	4619	2986	2548	2507
	Input	1253	1273	1465	1263	1198	1290
18/-°C DB/WB	TC	3782	3861	4469	2838	2675	2412
	Input	1282	1273	1490	1344	1325	1417
20/-°C DB/WB	TC	3762	3900	4430	2696	2475	2466
	Input	1317	1319	1528	1344	1299	1394
22/-°C DB/WB	TC	3498	3793	4226	2289	2500	2381
	Input	1218	1309	1530	1340	1308	1462

CAPACITY TABLE

Trend of total & sensible Heat Capacity / Indoor & Outdoor Air Temperature

Product models:QHC012D8S*

Specification of product at standard condition.

Standard Condition	Indoor	27°CDB/19°CWB	Total Cooling Capacity(TC)	3520 W
	Outdoor	35°CDB/24°CWB	Sensible Heat Capacity(SHC)	2605 W

Cooling	Outdoor conditions (DB)							
	(W)	25°C	30°C	35°C	40°C	45°C	50°C	
Indoor Conditions	(W)							
	21/15°C DB/WB	TC	3259	3194	3238	2730	2132	1535
		SC	2371	2371	2470	2151	1737	1283
24/17°C DB/WB		Input	1041	1165	1369	1348	1225	1006
		TC	3493	3440	3536	3039	2416	1753
		SC	2515	2517	2643	2338	1931	1471
27/19°C DB/WB		Input	1042	1173	1387	1372	1252	1032
		TC	3739	3781	3900	3300	2555	1802
		SC	2726	2750	2883	2518	2033	1498
32/23°C DB/WB		Input	1062	1197	1416	1401	1279	1054
		TC	3808	3989	4284	3796	3079	2259
		SC	2583	2696	2912	2628	2208	1713
	Input	1052	1204	1442	1444	1330	1105	

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Standard Condition	Indoor	20°CDB/ -°CWB	Total Cooling Capacity(TC)	3800 W
	Outdoor	7°CDB/ 6°CWB		

Heating	Outdoor conditions (DB)						
	(W)	12°C	7°C	4°C	0°C	-4°C	-7°C
15/-°C DB/WB	TC	4051	4381	4659	3012	2571	2529
	Input	1193	1295	1396	1203	1141	1228
18/-°C DB/WB	TC	3815	4158	4508	2863	2699	2434
	Input	1222	1295	1419	1281	1262	1350
20/-°C DB/WB	TC	3796	4200	4469	2719	2496	2488
	Input	1255	1341	1455	1281	1238	1328
22/-°C DB/WB	TC	3528	4085	4263	2309	2521	2402
	Input	1160	1331	1457	1276	1246	1392

CAPACITY TABLE

Trend of total & sensible Heat Capacity / Indoor & Outdoor Air Temperature

Product models:QHC018D8S*

Specification of product at standard condition.

Standard Condition	Indoor	27°CDB/19°CWB	Total Cooling Capacity(TC)	5280 W
	Outdoor	35°CDB/24°CWB	Sensible Heat Capacity(SHC)	3907W

Cooling	Outdoor conditions (DB)						
	(W)	25°C	30°C	35°C	40°C	45°C	50°C
Indoor Conditions	TC	4856	4618	4732	4117	2573	1861
	SC	3534	3427	3610	3246	2095	1556
	Input	1328	1442	1713	1742	1266	1045
21/15°C DB/WB	TC	5206	4973	5169	4584	2916	2125
	SC	3749	3639	3863	3527	2330	1783
	Input	1329	1453	1736	1773	1295	1072
24/17°C DB/WB	TC	5571	5467	5700	4978	3083	2185
	SC	4063	3976	4214	3800	2454	1816
	Input	1355	1483	1772	1810	1322	1095
27/19°C DB/WB	TC	5675	5766	6262	5727	3716	2739
	SC	3849	3897	4256	3965	2665	2077
	Input	1343	1491	1805	1865	1375	1148

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Standard Condition	Indoor	20°CDB/ -°CWB	Total Cooling Capacity(TC)	5500 W
	Outdoor	7°CDB/ 6°CWB		

Heating	Outdoor conditions (DB)						
	(W)	12°C	7°C	4°C	0°C	-4°C	-7°C
Indoor Conditions	TC	6442	6051	5491	3550	3119	3079
	Input	1708	1609	1481	1276	1246	1347
15/-°C DB/WB	TC	6067	5742	5313	3375	3275	2964
	Input	1748	1609	1506	1358	1379	1480
18/-°C DB/WB	TC	6035	5800	5267	3205	3030	3031
	Input	1795	1667	1544	1358	1352	1456
20/-°C DB/WB	TC	5610	5642	5025	2722	3060	2926
	Input	1661	1655	1547	1354	1361	1526

CAPACITY TABLE

Trend of total & sensible Heat Capacity / Indoor & Outdoor Air Temperature

Product models:QHC024D8S*

Specification of product at standard condition.

Standard Condition	Indoor	27°CDB/19°CWB	Total Cooling Capacity(TC)	7040 W
	Outdoor	35°CDB/24°CWB	Sensible Heat Capacity(SHC)	5210 W

Cooling	Outdoor conditions (DB)						
	(W)	25°C	30°C	35°C	40°C	45°C	50°C
Indoor Conditions	TC	7147	6796	6724	5807	4485	2605
	SC	5201	5044	5130	4577	3654	2177
	Input	2306	2502	2871	2897	2603	1724
21/15°C DB/WB	TC	7662	7319	7345	6466	5083	2974
	SC	5517	5355	5490	4974	4063	2496
	Input	2307	2522	2910	2950	2662	1769
24/17°C DB/WB	TC	8199	8047	8100	7022	5376	3059
	SC	5979	5851	5988	5360	4278	2541
	Input	2354	2573	2970	3012	2719	1808
27/19°C DB/WB	TC	8353	8486	8898	8077	6478	3834
	SC	5665	5735	6048	5592	4646	2907
	Input	2330	2588	3026	3103	2826	1895

D8S

Standard Condition	Indoor	20°CDB/ -°CWB	Total Cooling Capacity(TC)	7500 W
	Outdoor	7°CDB/ 6°CWB		

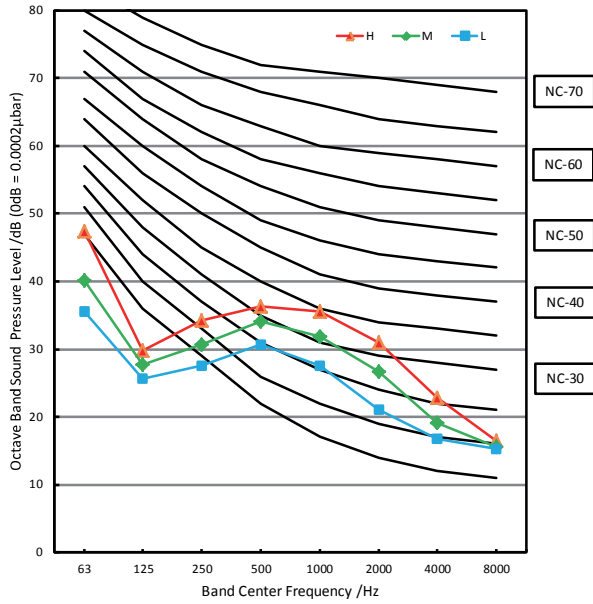
Heating	Outdoor conditions (DB)						
	(W)	12°C	7°C	4°C	0°C	-4°C	-7°C
Indoor Conditions	TC	10143	9597	9500	6142	5407	5344
	Input	3156	2995	3006	2590	2535	2742
15/-°C DB/WB	TC	9552	9108	9191	5838	5676	5142
	Input	3230	2995	3057	2757	2804	3013
18/-°C DB/WB	TC	9501	9200	9112	5544	5252	5258
	Input	3316	3102	3134	2757	2748	2964
20/-°C DB/WB	TC	8833	8949	8693	4708	5304	5076
	Input	3067	3079	3139	2749	2769	3107

Sound data

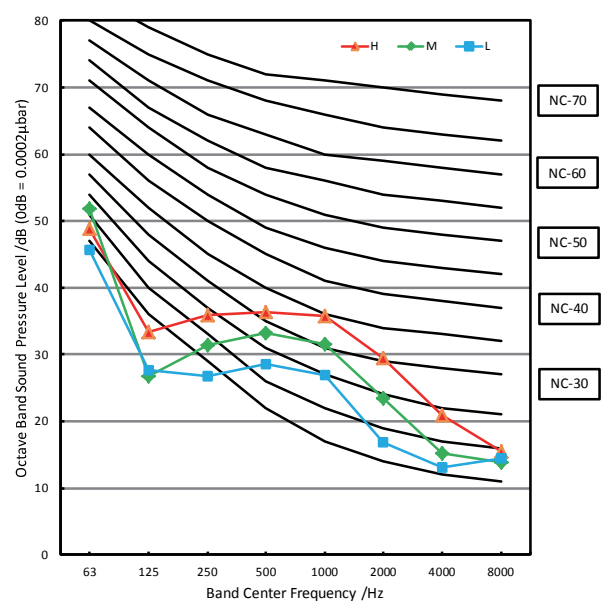
Sound Pressure Spectrum

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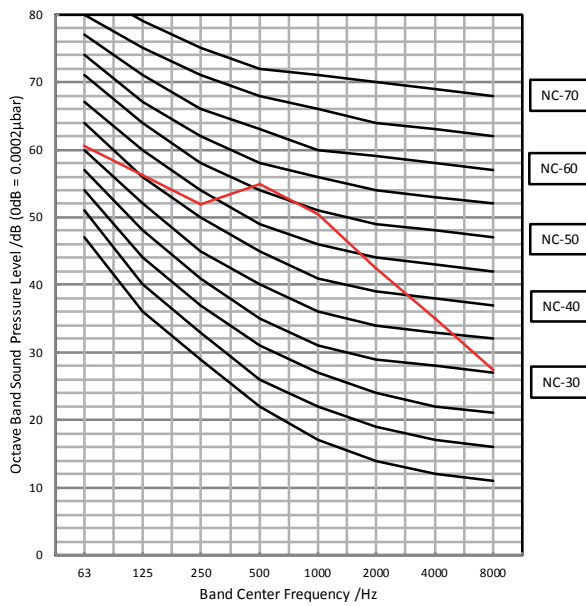
IDU Cooling mode



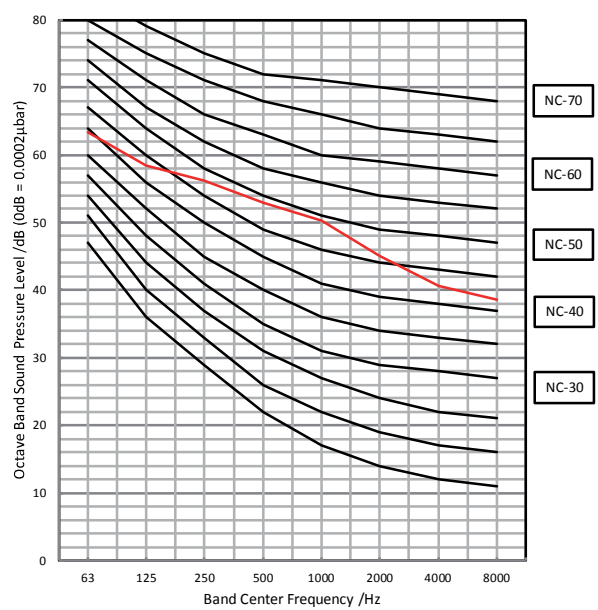
IDU Heating mode



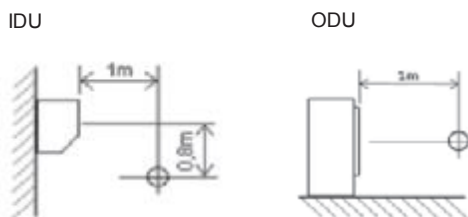
ODU Cooling mode



ODU Heating mode



Location of microphone



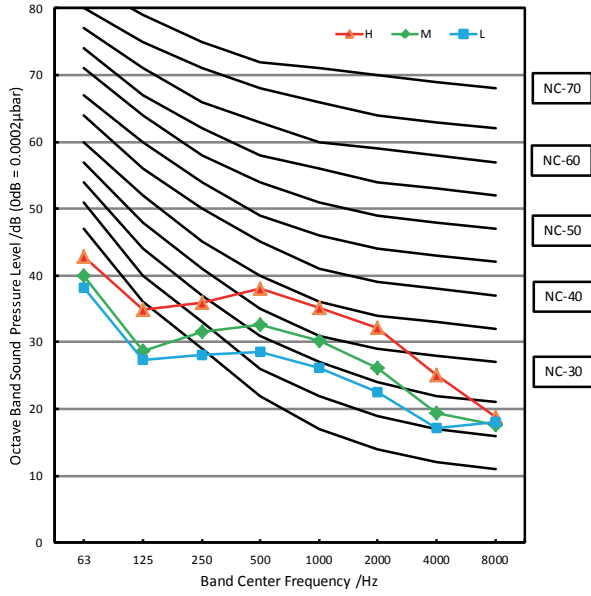
Sound pressure level(dBA)

Cooling mode	High fan
IDU	39
ODU	54

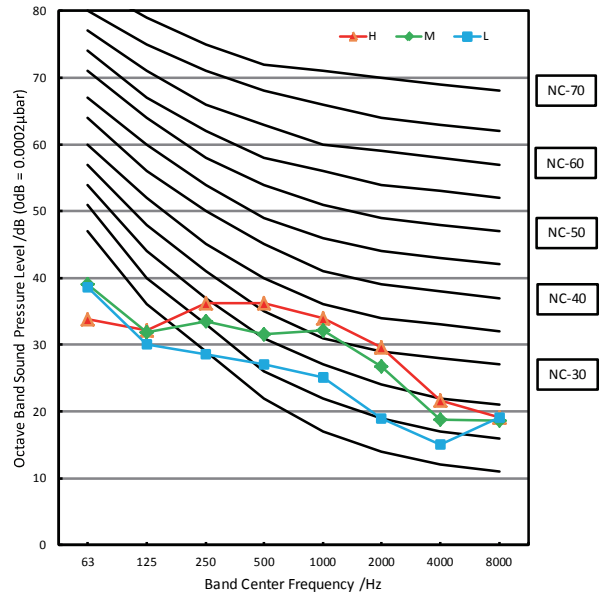
D8S

QHC012D8S*

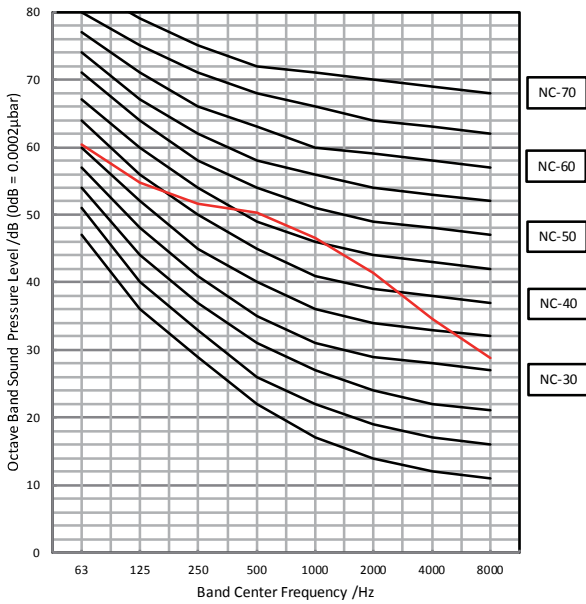
IDU Cooling mode



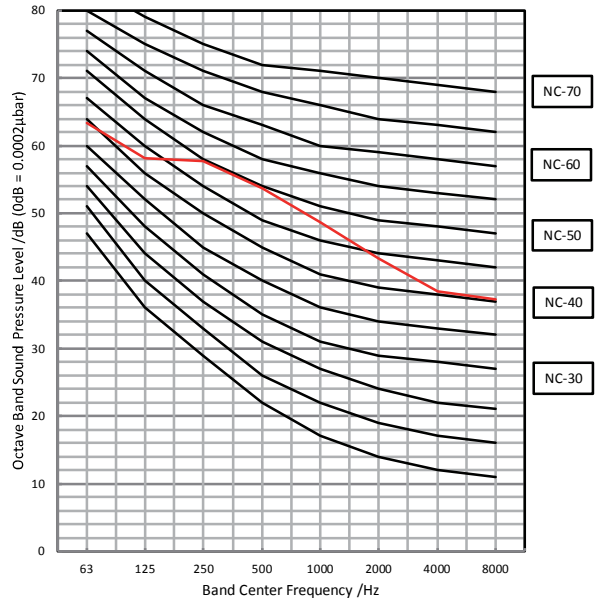
IDU Heating mode



ODU Cooling mode

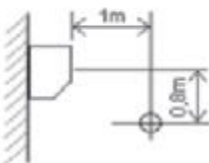


ODU Heating mode

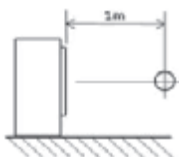


Location of microphone

IDU



ODU



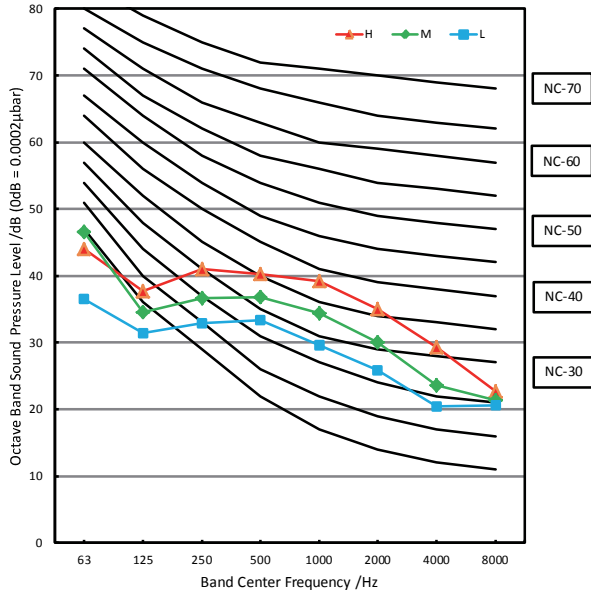
Sound pressure level(dBA)

Cooling mode	High fan
IDU	40
ODU	54

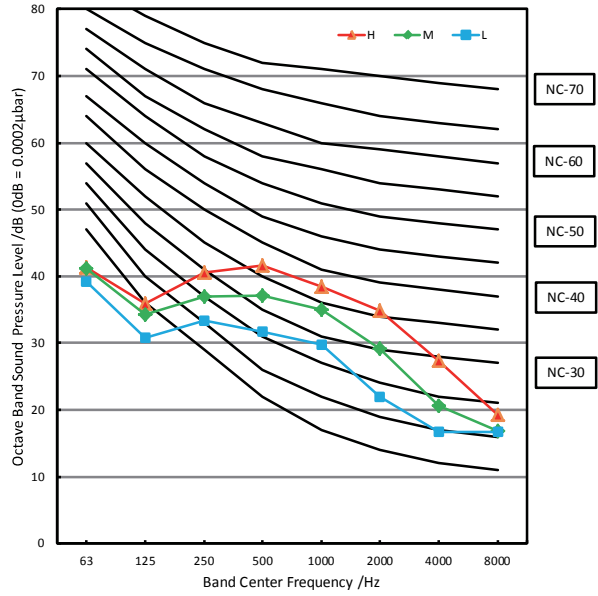
D8S

QHC018D8S*

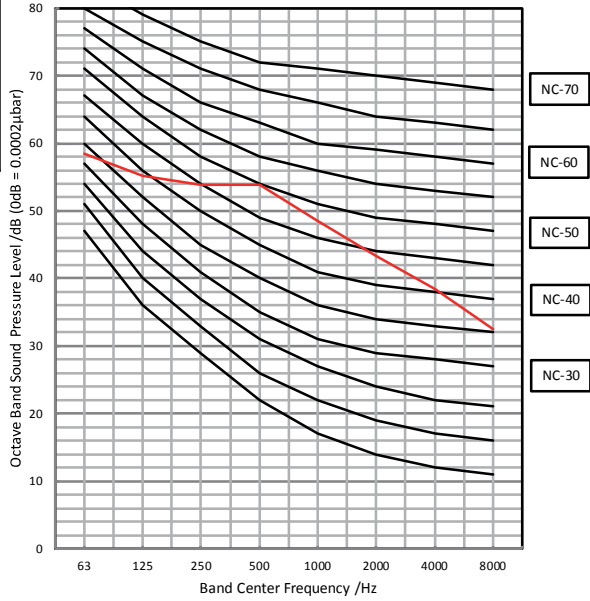
IDU Cooling mode



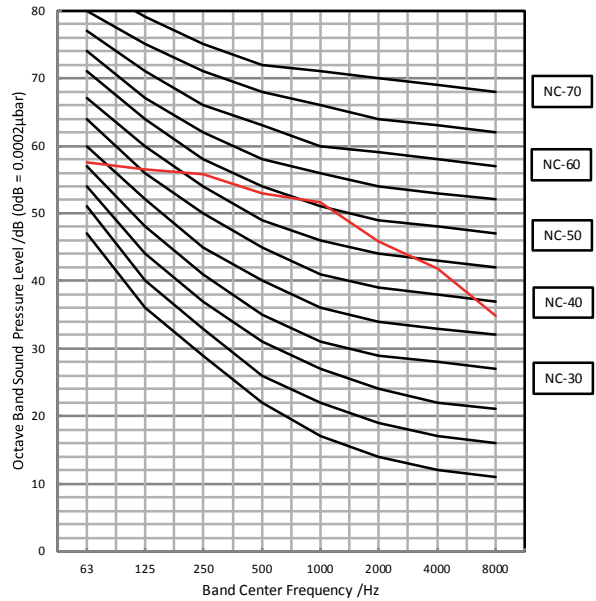
IDU Heating mode



ODU Cooling mode



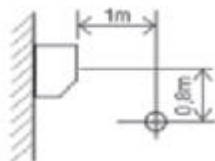
ODU Heating mode



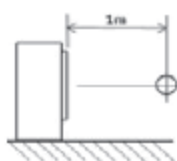
D8S

Location of microphone

IDU



ODU

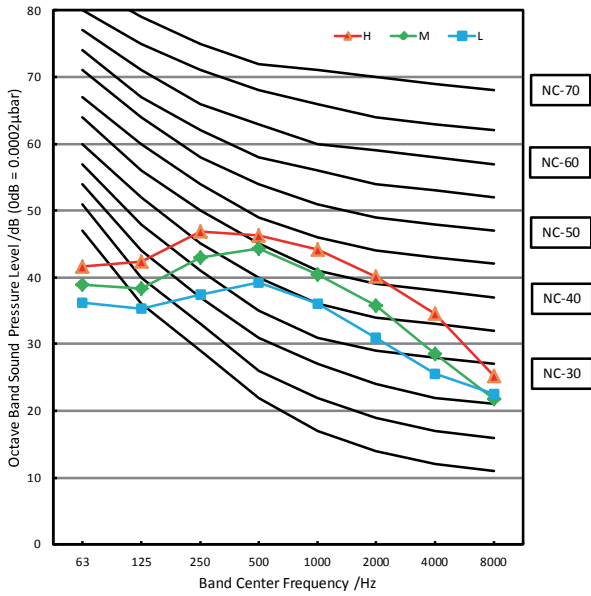


Sound pressure level(dBA)

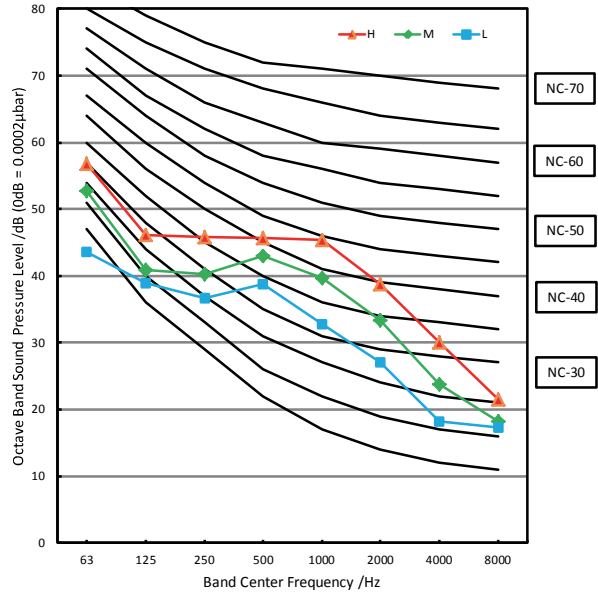
Cooling mode	High fan
IDU	43
ODU	55

QHC024D8S*

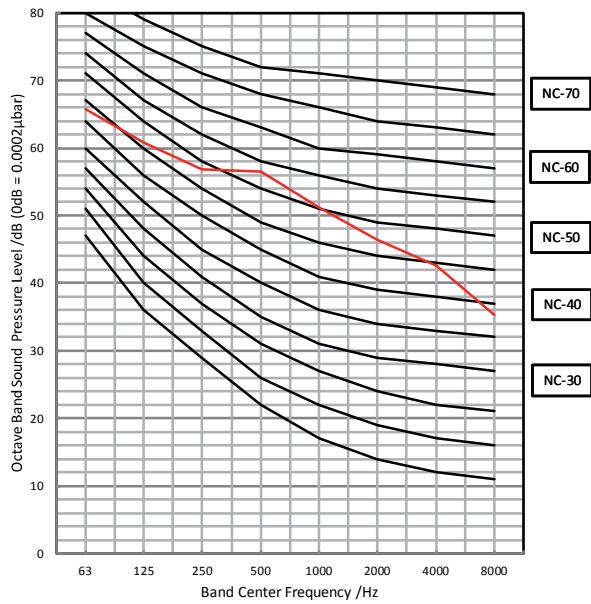
IDU Cooling mode



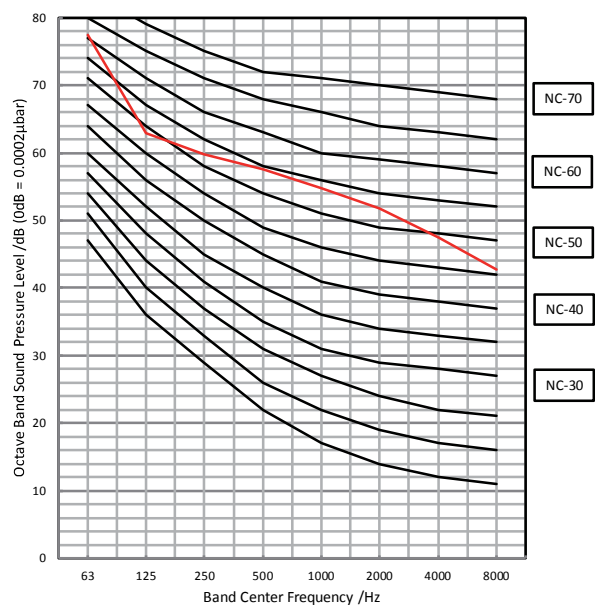
IDU Heating mode



ODU Cooling mode

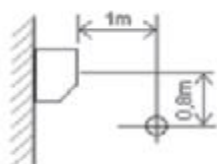


ODU Heating mode

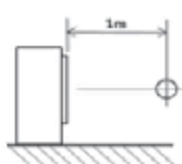


Location of microphone

IDU



ODU



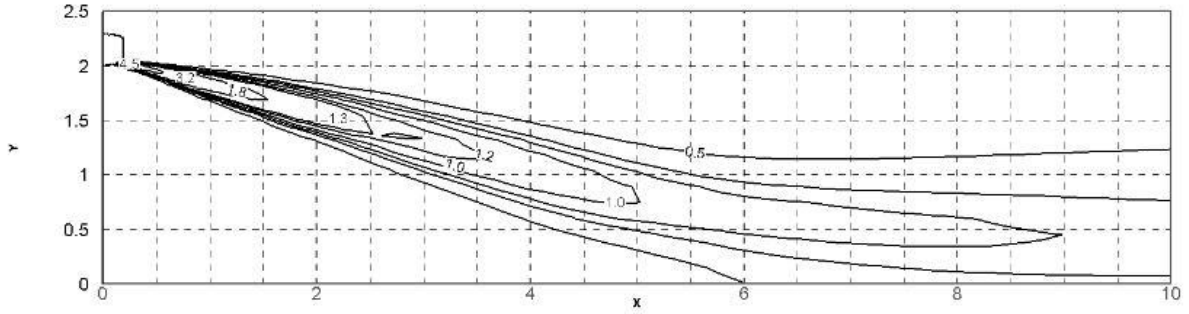
Sound pressure level(dBA)

Cooling mode	High fan
IDU	48
ODU	58

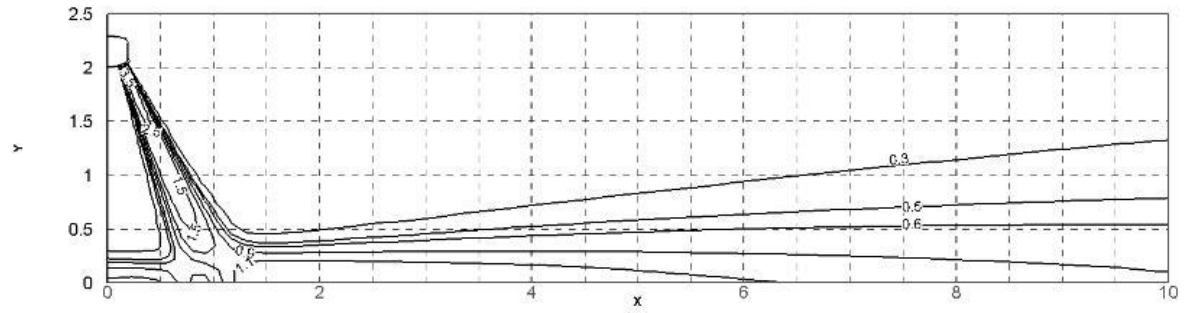
Airflow speed

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Cooling mode



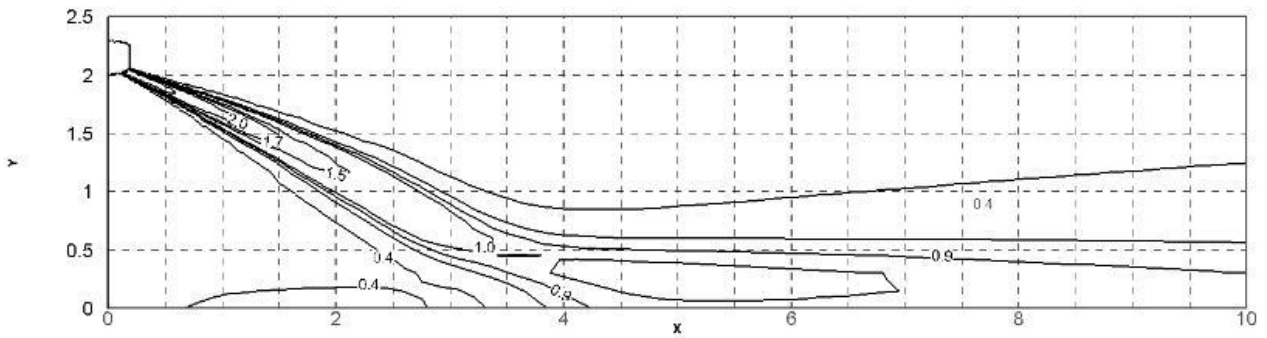
Heating mode



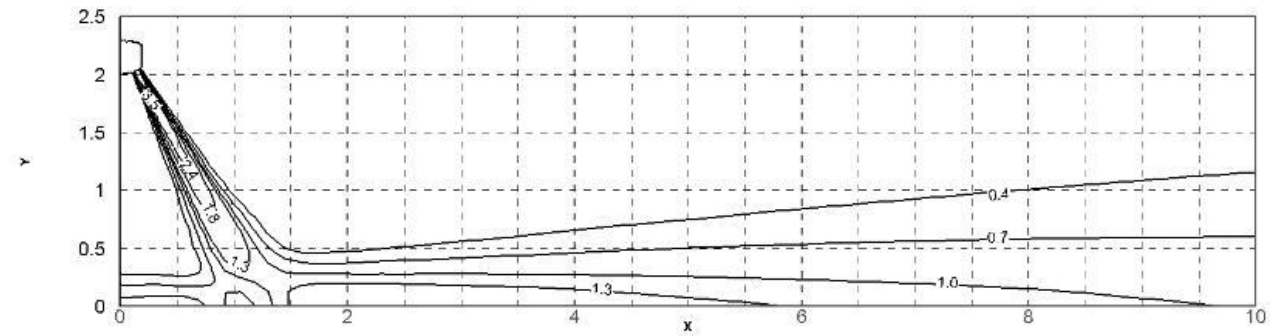
D8S

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Cooling mode

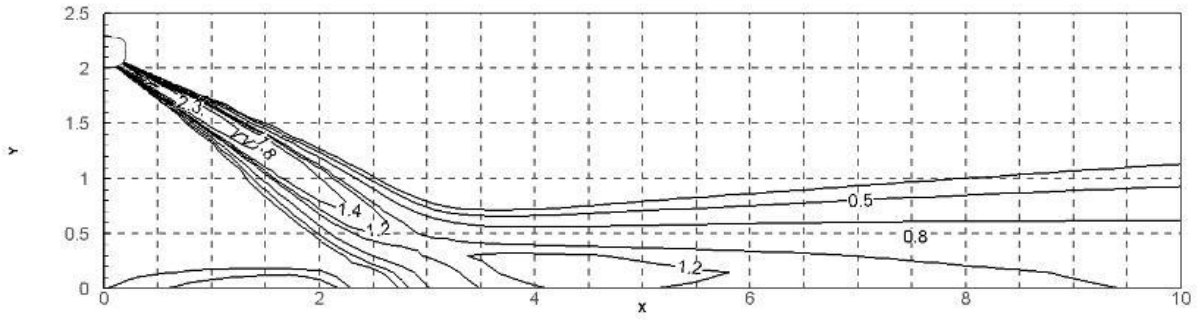


Heating mode

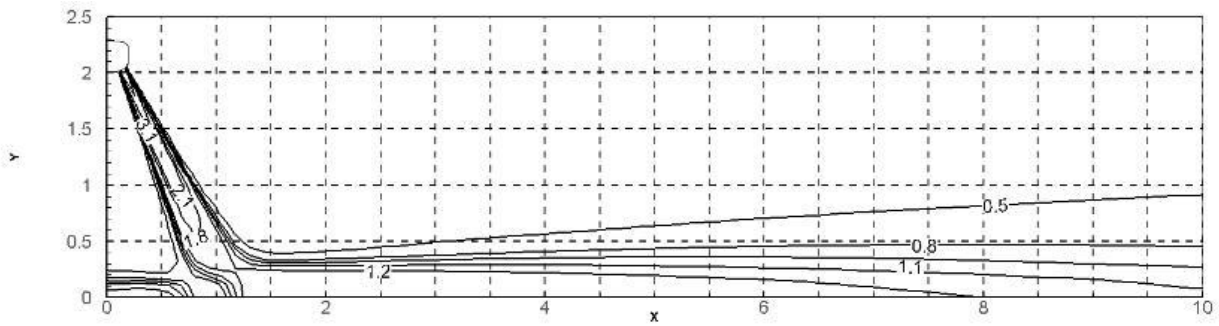


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Cooling mode

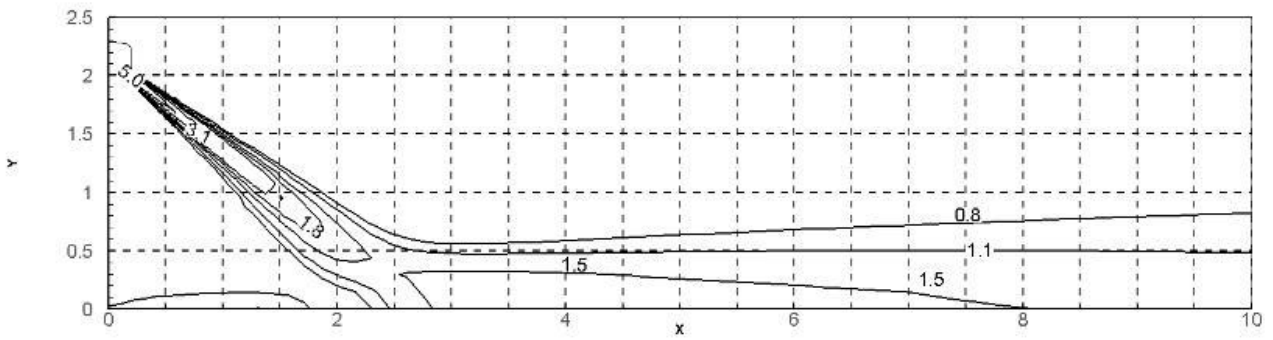


Heating mode

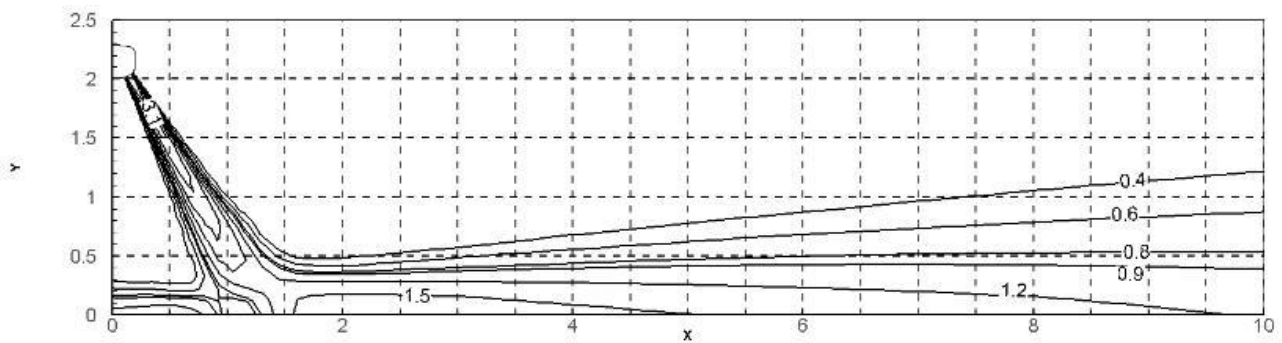


QHC024D8S*

Cooling mode



Heating mode



D8S