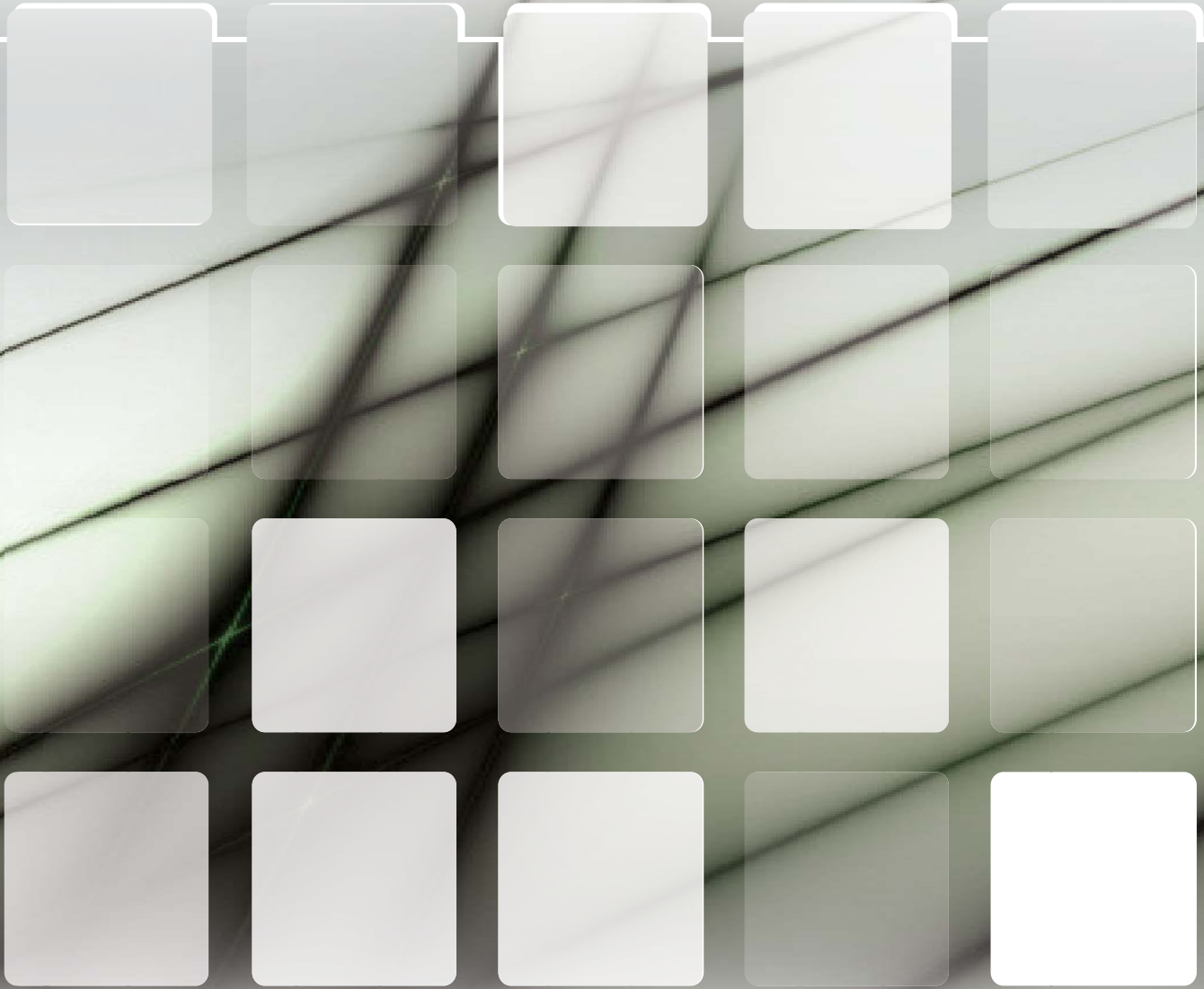


VEFC Series

Floor Ceiling VRF Indoor Unit

Technical Manual

220-240V/1/50-60Hz



R410A/R32

Commercial Air Conditioners

Engineering Data

Ceiling&Floor VRF IDU



VEFC012T0A-DWV036

VEFC031T0A-DWV090

VEFC015T0A-DWV045

VEFC035T0A-DWV100

VEFC019T0A-DWV056

VEFC038T0A-DWV112

VEFC024T0A-DWV071

VEFC042T0A-DWV125

VEFC027T0A-DWV080

VEFC048T0A-DWV140

Ceiling&Floor

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VRF Indoor Units

1 Specifications

VEFC012T0A-DWV036 / VEFC015T0A-DWV045 / VEFC019T0A-DWV056

Model			VEFC012T0A-DWV036	VEFC015T0A-DWV045	VEFC019T0A-DWV056
Power supply			1 phase, 220-240V, 50/60Hz		
Cooling ¹	Capacity	kW	3.6	4.5	5.6
		kBtu/h	12.3	15.4	19.1
	Power input	W	16	24	40
Heating ²	Capacity	kW	4	5	6.3
		kBtu/h	13.7	17.1	21.5
	Power input	W	16	24	40
Fan motor	Model		ZKSN-50-8-5L-4	ZKSN-50-8-5L-4	ZKSN-50-8-5L-4
	Type		DC		
Indoor coil	Number of rows		3	3	3
	Tube pitch × row pitch	mm	18×10.72	18×10.72	18×10.72
	Fin spacing	mm	1.35	1.35	1.35
	Fin type		Hydrophilic aluminum		
	Tube OD and type	mm	Φ5 Inner-groove		
	Dimensions (L×H×W)	mm	730×21.44×288	730×21.44×288	730×21.44×288
	Number of circuits		8	8	8
Air flow rate ³		m ³ /h	564/539/514/492 /467/445/424	712/674/637/603 /565/531/500	927/883/840/794 /751/707/665
Sound pressure level ⁴		dB(A)	32/30/29/28/27/26 /25	36/35/34/33/32/31 /30	43/41/40/38/36/34 /33
Sound power level		dB(A)	43/42/40/39/38/38 /37	47/45/45/43/42/41 /40	54/53/51/50/48/47 /45
Unit	Net dimensions ⁵ (W×H×D)	mm	1069×674×234		
	Packed dimensions (W×H×D)	mm	1190×755×313		
	Net/Gross weight	kg	24.7/29.5	24.7/29.5	24.7/29.5
Refrigerant type			R410A/R32		
Throttle		Type	Electronic expansion valve		
Design pressure (H/L)		MPa	4.4/1.5		
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		
	Drain pipe	mm	OD Φ25		

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
- Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured in an anechoic chamber.
- 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.

VEFC024T0A-DWV071 / VEFC027T0A-DWV080 / VEFC031T0A-DWV090

Model			VEFC024T0A-DWV071	VEFC027T0A-DWV080	VEFC031T0A-DWV090
Power supply			1 phase, 220-240V, 50/60Hz		
Cooling ¹	Capacity	kW	7.1	8	9
		kBtu/h	24.2	27.3	30.7
	Power input	W	42	56	75
Heating ²	Capacity	kW	8	9	10
		kBtu/h	27.3	30.7	34.1
	Power input	W	42	56	75
Fan motor	Model		ZKSN-60-8-7-3	ZKSN-60-8-7-3	ZKSN-60-8-7-3
	Type		DC		
Indoor coil	Number of rows		3	3	3
	Tube pitch × row pitch	mm	18×10.72	18×10.72	18×10.72
	Fin spacing	mm	1.35	1.35	1.35
	Fin type		Hydrophilic aluminum		
	Tube OD and type	mm	Φ5 Inner-groove		
	Dimensions (L×H×W)	mm	930×21.44×288	930×21.44×288	930×21.44×288
	Number of circuits		8	8	8
Air flow rate ³		m ³ /h	1128/1062/1024/926 /860/791/729	1300/1218/1138/105 7/982/904/824	1480/1397/1302/12 18/1138/1056/979
Sound pressure level ⁴		dB(A)	43/40/39/37/35/34 /33	45/44/42/40/38/36 /34	48/47/46/44/42/40 /37
Sound power level		dB(A)	54/53/52/51/49/48 /48	55/53/51/50/49/46 /44	58/57/55/54/52/50 /49
Unit	Net dimensions ⁵ (W×H×D)		mm/in 1284×674×234 (50 5/8×26 5/8×234 1/4)		
	Packed dimensions (W×H×D)		mm/in 1405×755×323 (55 3/8×29 3/4×12 3/4)		
	Net/Gross weight		kg	29.8(65.7)/34.8(76.72)	29.8(65.7)/34.8(76.72)
Refrigerant type			R410A/R32		
Throttle		Type	Electronic expansion valve		
Design pressure (H/L)		MPa	4.4/1.5		
Pipe connections	Liquid/Gas pipe		mm Φ9.52/Φ15.9		
	Drain pipe		mm OD Φ25		

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
- Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured in an anechoic chamber.
- 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.

VRF Indoor Units

VEFC035T0A-DWV100 / VEFC038T0A-DWV112 / VEFC042T0A-DWV125 / VEFC048T0A-DWV140

Model			VEFC035T0A-DWV100	VEFC038T0A-DWV112	VEFC042T0A-DWV125	VEFC048T0A-DWV140
Power supply			1 phase, 220-240V, 50/60Hz			
Cooling ¹	Capacity	kW	10	11.2	12.5	14
		kBtu/h	34.1	38.2	42.7	47.8
	Power input	W	50	65	95	140
Heating ²	Capacity	kW	11.2	12.5	14	16
		kBtu/h	38.2	42.7	47.8	54.6
	Power input	W	50	65	95	140
Fan motor	Model		ZKSN-60-8-7-3	ZKSN-60-8-7-3	ZKSN-60-8-7-3	ZKSN-60-8-7-3
	Type		DC			
Indoor coil	Number of rows		3	3	3	3
	Tube pitch × row pitch	mm	18×10.72	18×10.72	18×10.72	18×10.72
	Fin spacing	mm	1.35	1.35	1.35	1.35
	Fin type		Hydrophilic aluminum			
	Tube OD and type	mm	Φ5 Inner-groove			
	Dimensions (L×H×W)	mm	1305×21.44×288	1305×21.44×288	1305×21.44×288	1305×21.44×288
	Number of circuits		8	8	8	8
Air flow rate ³	m ³ /h	1497/1469/1296/ 1200/1104/1015 /918	1648/1530/1469/ 1292/1178/1067 /956	2012/1879/1772/ 1649/1531/1469 /1285	2206/2070/1937/ 1810/1677/1516 /1402	
Sound pressure level ⁴	dB(A)	42/40/39/37/35 /33/32	44/42/41/39/37 /35/33	49/48/46/44/42 /40/38	51.5/50/48/46 /44/42/40	
Sound power level	dB(A)	54/53/51/50/48 /46/44	56/54/53/51/49 /47/45	60/59/58/56/54 /53/51	63/62/60/58/56 /54/53	
Unit	Net dimensions ⁵ (W×H×D)	mm	1649×674×234 (65×26 5/8×9 1/4)			
	Packed dimensions (W×H×D)	mm	1770×755×323 (69 3/4×29 3/4×12 3/4)			
	Net/Gross weight	kg	36.4(80.25)/42.7(94.14)	36.4(80.25)/42.7(94.14)	36.4(80.25)/42.7(94.14)	36.4(80.25)/42.7(94.14)
Refrigerant type			R410A/R32			
Throttle	Type	Electronic expansion valve				
Design pressure (H/L)		MPa	4.4/1.5			
Pipe connections	Liquid/Gas pipe	mm	Φ9.52/Φ15.9			
	Drain pipe	mm	OD Φ25			

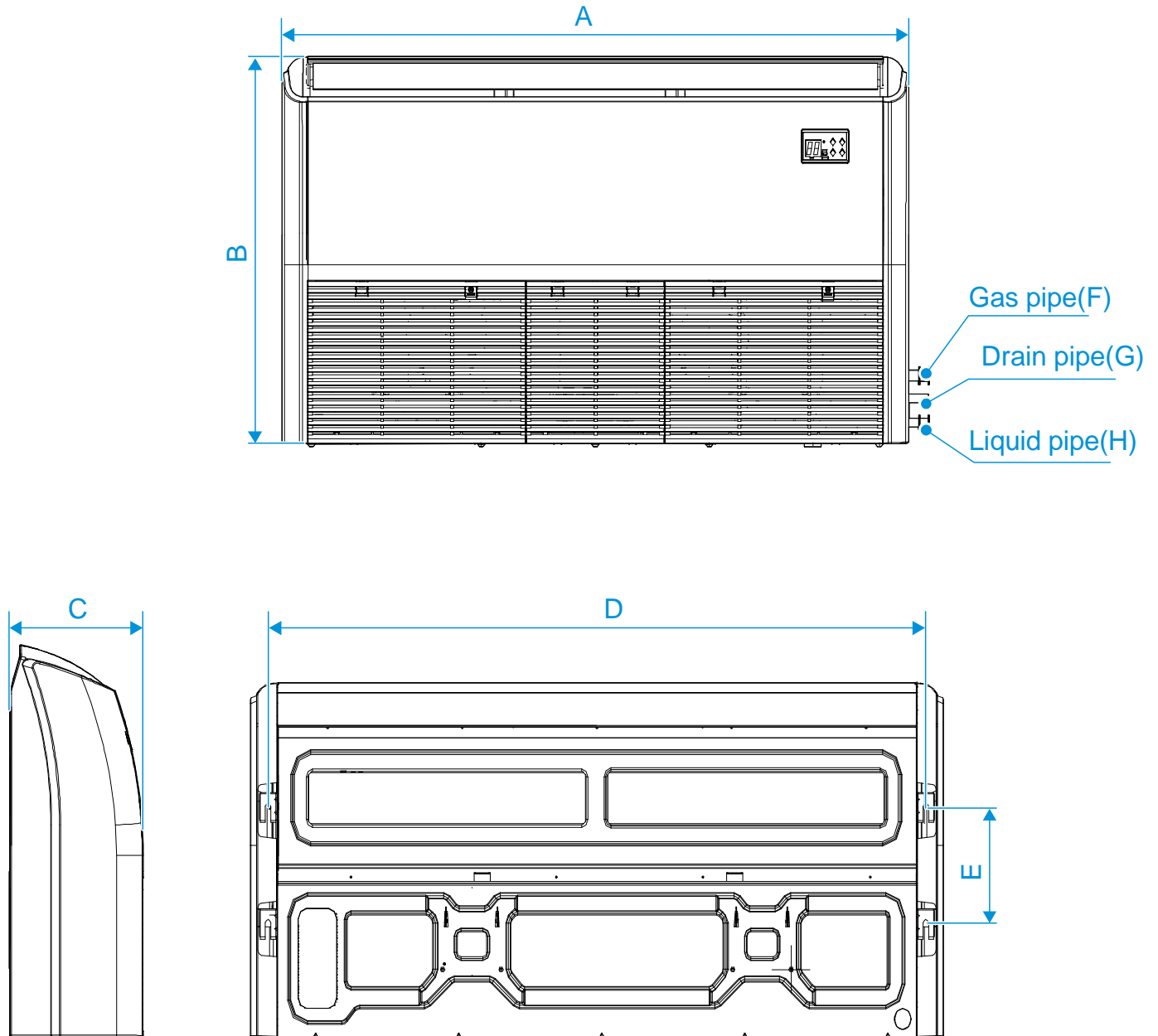
Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
- Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured in an anechoic chamber.
- 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.

2 Dimensions

2.1 Unit Dimensions

Figure 2.1: VEFC012(015,019,024,027,031,035,038,042,048) Ceiling&Floor dimensions (unit: mm)



Capacity(kW)	A	B	C	D	E	F	G	H
kW≤5.6	1069	674	234	984	221	Φ12.7	Φ25	Φ6.35
5.6<kW≤9.0	1284	674	234	1199	221	Φ15.9	Φ25	Φ9.52
9.0<kW≤14.0	1649	674	234	1565	221	Φ15.9	Φ25	Φ9.52

3 Unit Placement

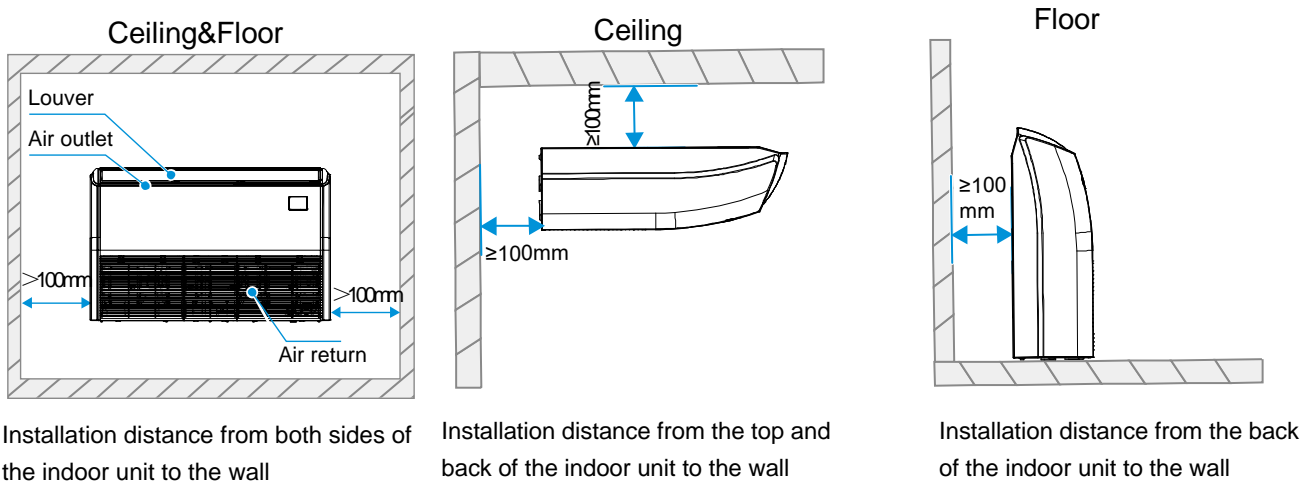
3.1 Placement Considerations

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 controller need to be changed.

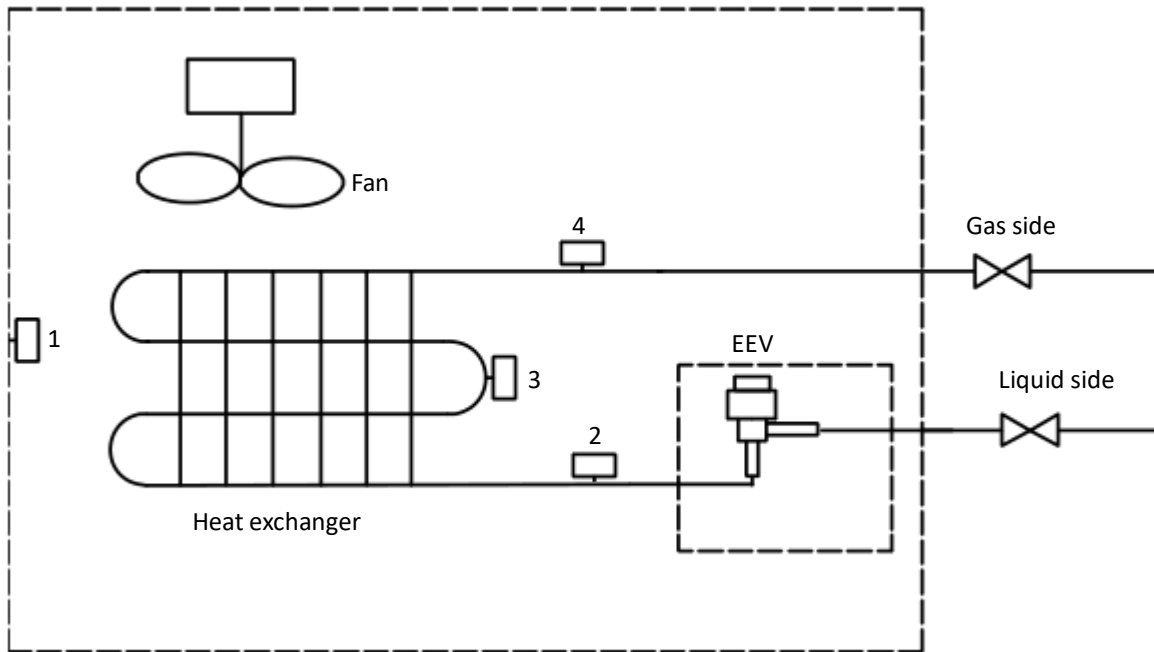
3.2 Space Requirements

Figure 3.1: VFC012(015,019,024,027,031,035,038,042,048) Ceiling&Floor space requirements (unit: mm)



4 Piping Diagram

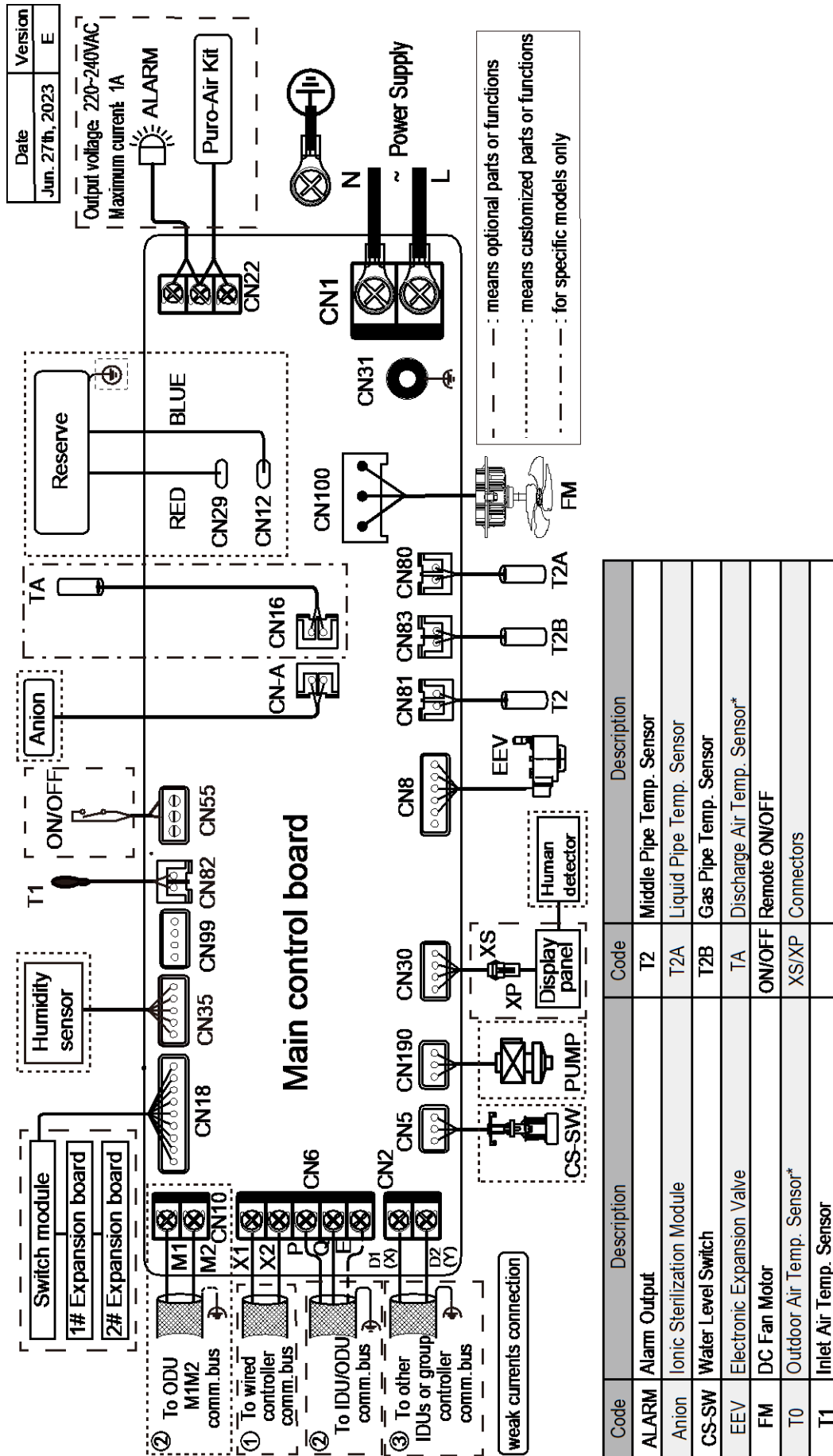
Figure 4.1: VEFC012(015,019,024,027,031,035,038,042,048) Ceiling&Floor piping diagram



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

5 Wiring Diagram

Figure 5.1: VEFC012(015,019,024,027,031,035,038,042,048) Ceiling&Floor 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.
- PQ and M1M2 communication ports both are used for indoor and outdoor communication, and only one of them can be used at a time. Meanwhile, be sure to connect the same communication ports (PQ to PQ; M1M2 to M1M2) in case of damage of the main control board.
- 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.

VRF Indoor Units

6 Capacity Tables

6.1 Cooling Capacity Table

Table 6.1: VEFC012(015,019,024,027,031,035,038,042,048) Ceiling&Floor cooling capacity

Model	Indoor air temperature (°C WB/DB)													
	14/20		16/23		18/26		19/27		20/28		22/30		24/32	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
VEFC012T0A-DWV036	3.2	3.0	3.4	3.0	3.6	3.1	3.6	3.0	3.7	2.9	3.8	2.8	3.9	2.7
VEFC015T0A-DWV045	4.0	3.6	4.3	3.8	4.5	3.8	4.5	3.7	4.6	3.6	4.7	3.4	4.8	3.3
VEFC019T0A-DWV056	5.0	4.5	5.3	4.6	5.6	4.7	5.6	4.6	5.7	4.5	5.8	4.2	6.0	4.1
VEFC024T0A-DWV071	6.3	5.7	6.7	5.8	7.0	5.9	7.1	5.8	7.2	5.6	7.4	5.4	7.6	5.2
VEFC027T0A-DWV080	7.1	6.4	7.6	6.6	7.9	6.7	8.0	6.5	8.1	6.3	8.3	6.0	8.5	5.8
VEFC031T0A-DWV090	8.0	7.2	8.5	7.4	8.9	7.5	9.0	7.3	9.1	7.1	9.4	6.8	9.6	6.5
VEFC035T0A-DWV100	8.9	8.1	9.5	8.3	9.9	8.4	10.0	8.2	10.1	8.0	10.4	7.6	10.7	7.3
VEFC038T0A-DWV112	9.9	9.1	10.6	9.3	11.1	9.4	11.2	9.2	11.3	8.9	11.6	8.4	11.9	8.1
VEFC042T0A-DWV125	11.0	10.1	11.7	10.3	12.3	10.4	12.5	10.2	12.6	9.9	12.9	9.3	13.2	9.0
VEFC048T0A-DWV140	12.4	11.3	13.2	11.6	13.8	11.7	14.0	11.4	14.2	11.1	14.5	10.5	14.9	10.1

Abbreviations:

TC: Total capacity (kW)

SC: Sensible capacity (kW)

Notes:

1. Shaded cells indicate rating condition

6.2 Heating Capacity Table

Table 6.2: VEFC012(015,019,024,027,031,035,038,042,048) Ceiling&Floor heating capacity

Model	Indoor air temperature (°C DB)					
	16	18	20	21	22	24
	SHC	SHC	SHC	SHC	SHC	SHC
VEFC012T0A-DWV036	4.2	4.2	4.0	3.8	3.8	3.5
VEFC015T0A-DWV045	5.3	5.3	5.0	4.8	4.7	4.4
VEFC019T0A-DWV056	6.7	6.6	6.3	6.1	5.9	5.5
VEFC024T0A-DWV071	8.5	8.4	8.0	7.8	7.5	7.0
VEFC027T0A-DWV080	9.5	9.5	9.0	8.7	8.5	7.8
VEFC031T0A-DWV090	10.6	10.5	10.0	9.7	9.4	8.8
VEFC035T0A-DWV100	11.9	11.8	11.2	10.9	10.5	9.8
VEFC038T0A-DWV112	13.3	13.1	12.5	12.1	11.8	10.9
VEFC042T0A-DWV125	14.8	14.7	14.0	13.6	13.2	12.2
VEFC048T0A-DWV140	17.0	16.7	16.0	15.6	15.0	14.0

Abbreviations:

SHC: Sensible Heat Capacity

Notes:

1. Shaded cells indicate rating condition

7 Electrical Characteristics

Table 7.1: VEFC012(015,019,024,027,031,035,038,042,048) Ceiling&Floor electrical characteristics

Model	Power supply						Indoor Fan Motor	
	Hz	Volts	Min. volts	Max. volts	MCA	MFA	Rated motor output (W)	FLA
VEFC012T0A-DWV036	50/60	220-240	198	264	0.20	15	50	0.16
VEFC015T0A-DWV045	50/60	220-240	198	264	0.28	15	50	0.22
VEFC019T0A-DWV056	50/60	220-240	198	264	0.43	15	50	0.34
VEFC024T0A-DWV071	50/60	220-240	198	264	0.45	15	50	0.36
VEFC027T0A-DWV080	50/60	220-240	198	264	0.60	15	60	0.48
VEFC031T0A-DWV090	50/60	220-240	198	264	0.75	15	60	0.60
VEFC035T0A-DWV100	50/60	220-240	198	264	0.63	15	60	0.50
VEFC038T0A-DWV112	50/60	220-240	198	264	0.75	15	60	0.60
VEFC042T0A-DWV125	50/60	220-240	198	264	1.00	15	60	0.80
VEFC048T0A-DWV140	50/60	220-240	198	264	1.25	15	60	1.00

Abbreviations:

MCA: Min. Circuit Amps. (A), which is used to select the minimum circuit size to ensure safe operation over a long period of time.s

MFA: Max. Fuse Amps. (A), which is used to select the circuit breaker.

FLA: Full Load Amps. (A), which is the full load current of the indoor fan motor (reliable operation at the fastest speed setting).

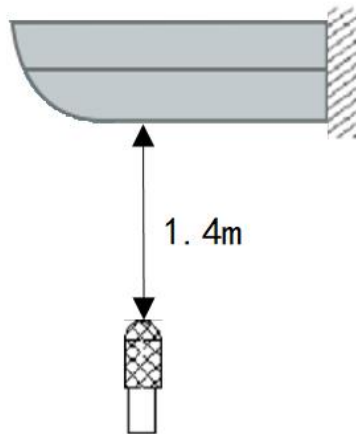
VRF Indoor Units

8 Sound Levels

8.1 Overall

Model name	Sound pressure levels dB(A)						
	SSH	SH	H	M	L	SL	SSL
VEFC012T0A-DWV036	32	30	29	28	27	26	25
VEFC015T0A-DWV045	36	35	34	33	32	31	30
VEFC019T0A-DWV056	43	41	40	38	36	34	33
VEFC024T0A-DWV071	43	40	39	37	35	34	33
VEFC027T0A-DWV080	45	44	42	40	38	36	34
VEFC031T0A-DWV090	48	47	46	44	42	40	37
VEFC035T0A-DWV100	42	40	39	37	35	33	32
VEFC038T0A-DWV112	44	42	41	39	37	35	33
VEFC042T0A-DWV125	49	48	46	44	42	40	38
VEFC048T0A-DWV140	51.5	50	48	46	44	42	40

Figure 8.1: VEFC012(015,019,024,027,031,035,038,042,048) Ceiling&Floor sound pressure level measurement



8.2 Octave Band Levels

Figure 8.2: VEFC012T0A-DWV036 octave band levels

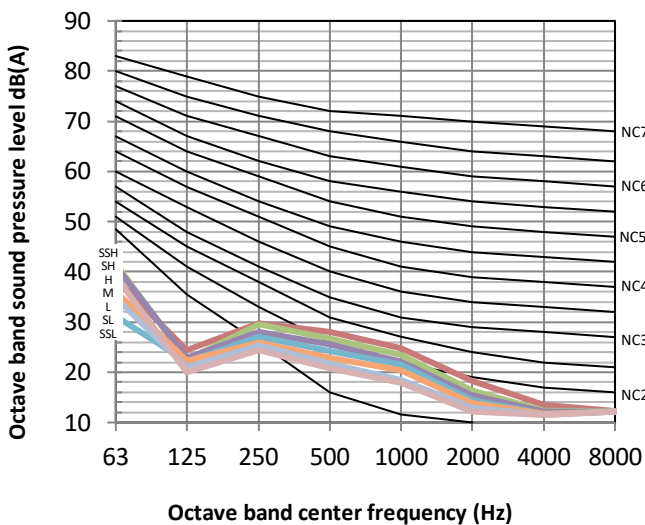


Figure 8.3: VEFC015T0A-DWV045 octave band levels

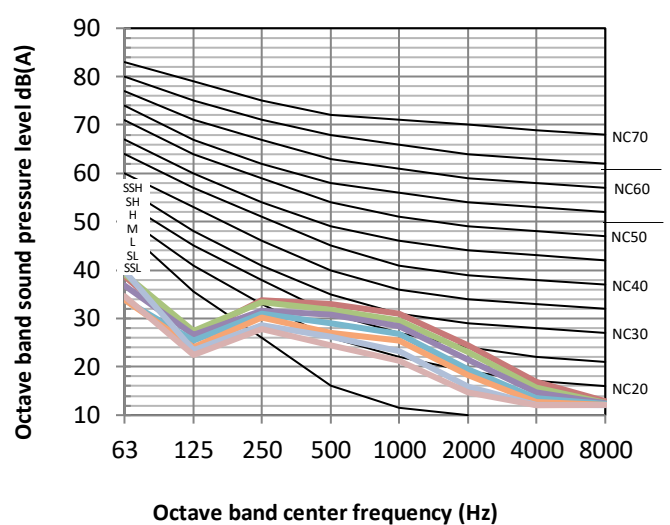


Figure 8.4: VEFC019T0A-DWV056 octave band levels

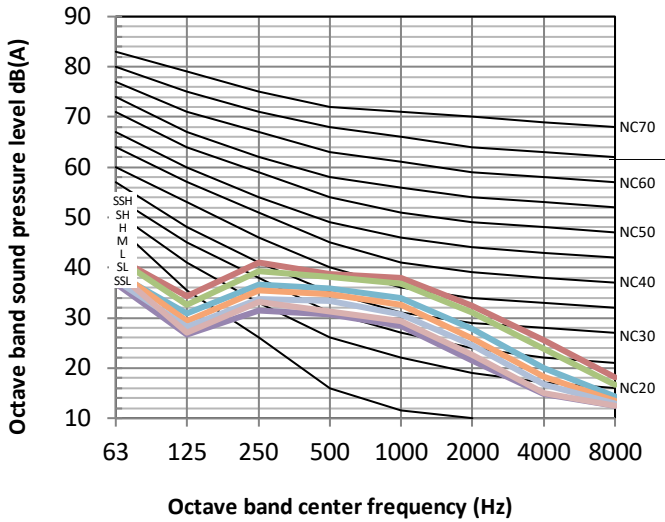


Figure 8.5: VEFC024T0A-DWV071 octave band levels

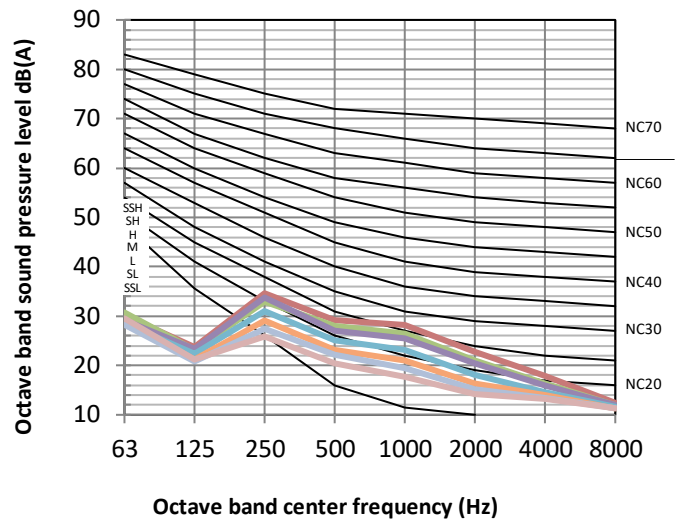


Figure 8.6: VEFC027T0A-DWV080 octave band levels

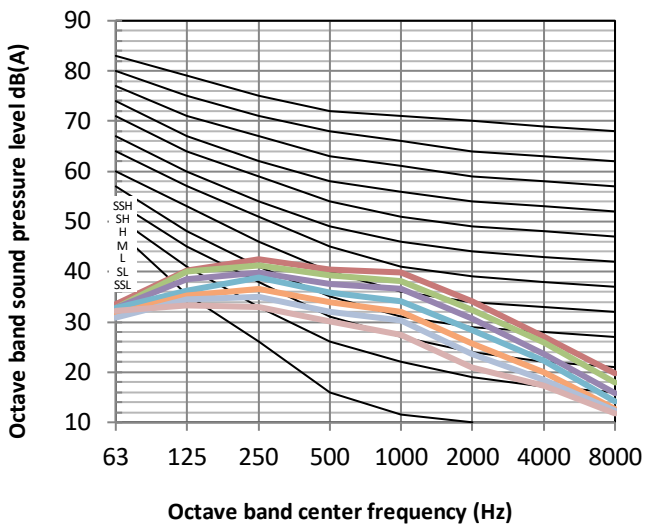


Figure 8.7: VEFC031T0A-DWV090 octave band levels

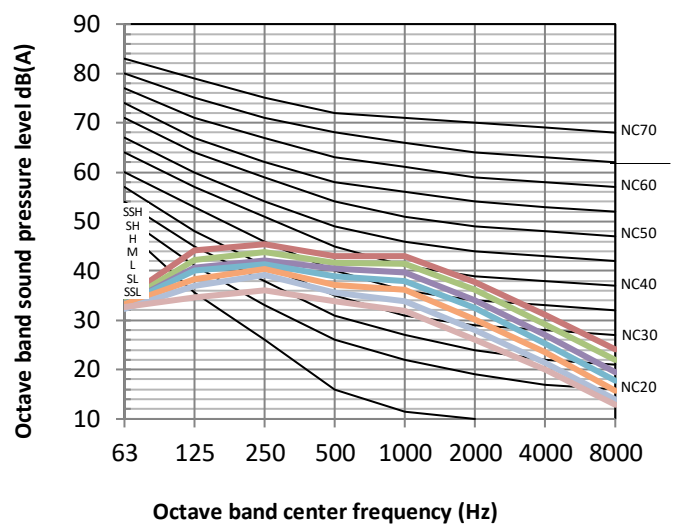


Figure 8.8: VEFC035T0A-DWV100 octave band levels

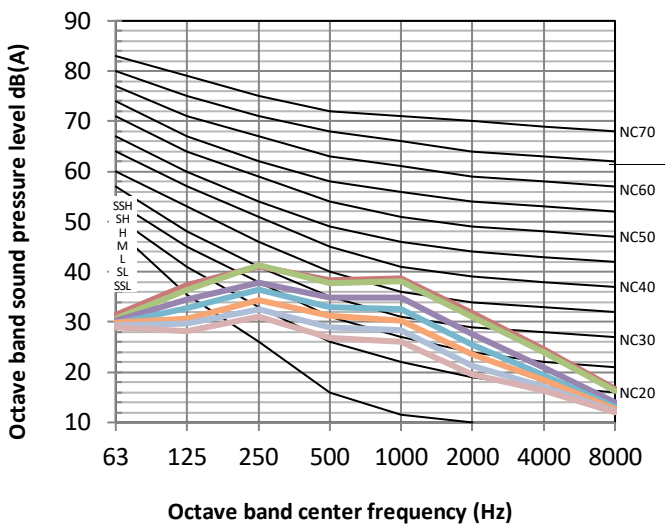
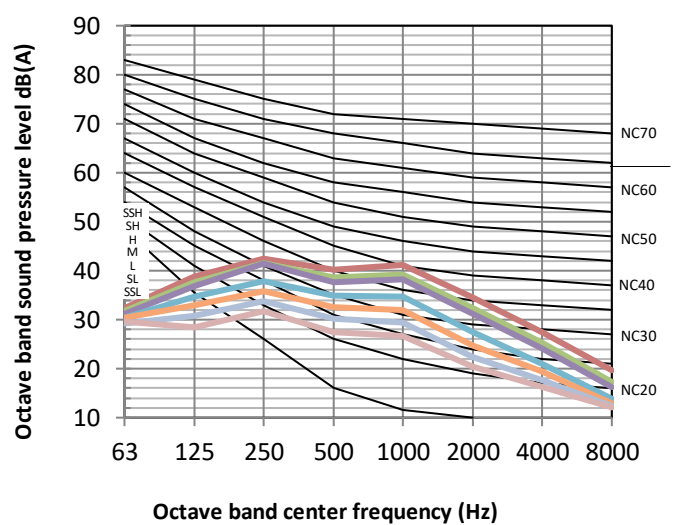


Figure 8.9: VEFC038T0A-DWV112 octave band levels



VRF Indoor Units

Figure 8.10: VEFC042T0A-DWV125 octave band levels

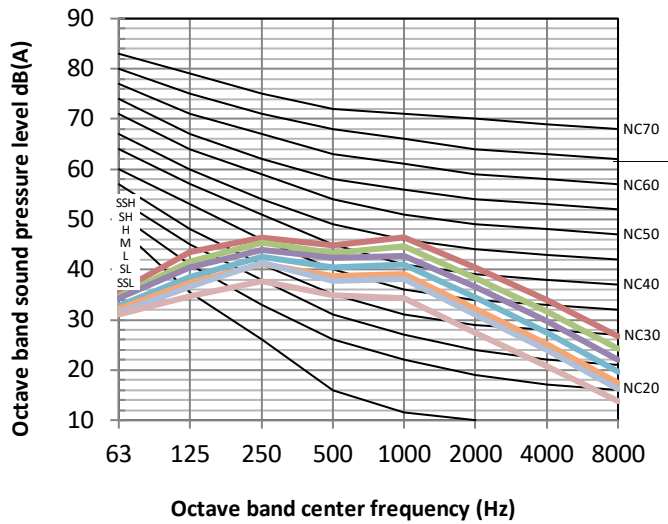
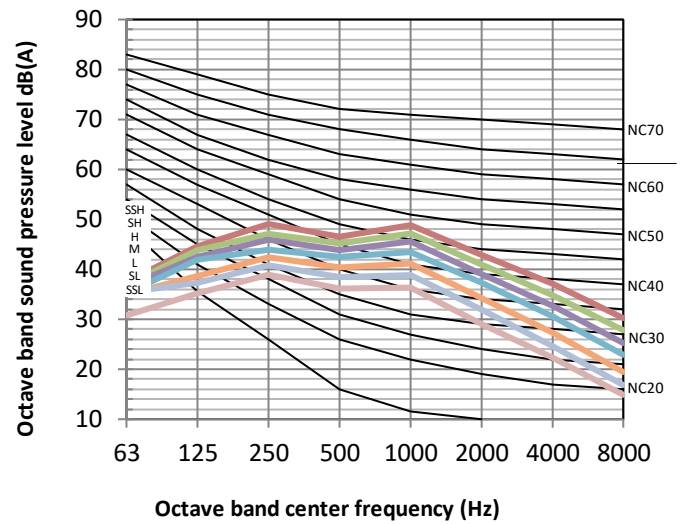


Figure 8.11: VEFC048T0A-DWV140 octave band levels



9 Temperature and Airflow Distributions 9.1 Simulate condition

Table 9.1: VEFC012(015,019,024,027,031,035,038,042,048) Ceiling&Floor simulate condition

Model name	Room size (m)	Ceiling height (m)	Flow angle (Cooling/Heating)	Placing
VEFC012T0A-DWV036	10×10	4	12°/52°	Ceiling&Floor
VEFC015T0A-DWV045	10×10	4	12°/52°	Ceiling&Floor
VEFC019T0A-DWV056	10×10	4	12°/52°	Ceiling&Floor
VEFC024T0A-DWV071	10×10	4	12°/52°	Ceiling&Floor
VEFC027T0A-DWV080	10×10	4	12°/52°	Ceiling&Floor
VEFC031T0A-DWV090	10×10	4	12°/52°	Ceiling&Floor
VEFC035T0A-DWV100	10×10	4	12°/52°	Ceiling&Floor
VEFC038T0A-DWV112	10×10	4	12°/52°	Ceiling&Floor
VEFC042T0A-DWV125	10×10	4	12°/52°	Ceiling&Floor
VEFC048T0A-DWV140	10×10	4	12°/52°	Ceiling&Floor

Note:

- These figures 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 under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

9.2 Airflow distributions (unit: m/s)

Figure 9.1: VEFC012T0A-DWV036 cooling at 300S

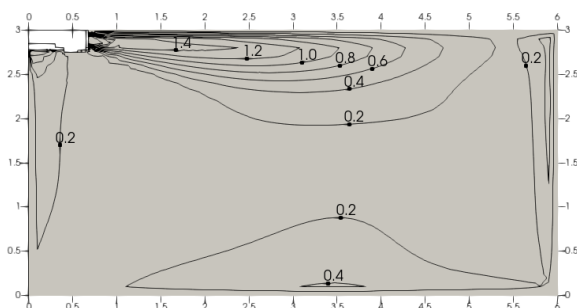


Figure 9.2: VEFC012T0A-DWV036 heating at 300S

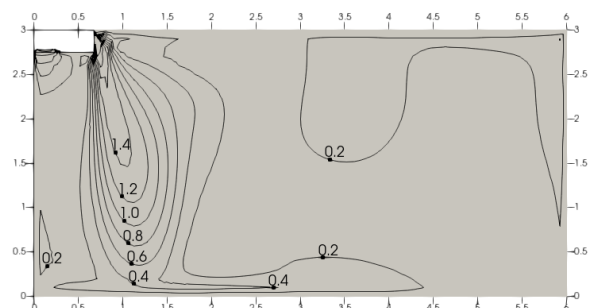


Figure 9.3: VEFC015T0A-DWV045 cooling at 300S

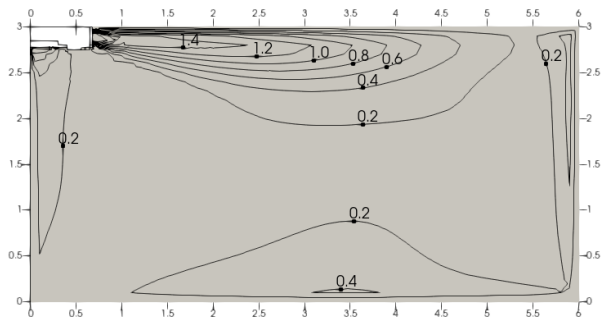


Figure 9.4: VEFC015T0A-DWV045 heating at 300S

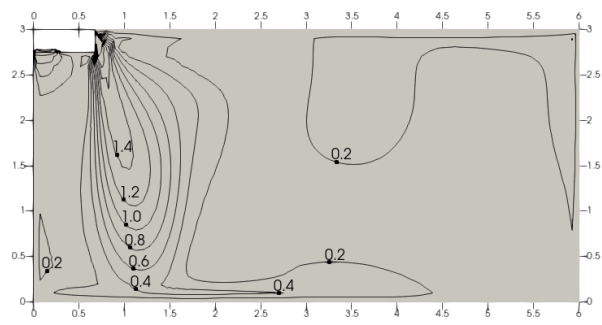


Figure 9.5: VEFC019T0A-DWV056 cooling at 300S

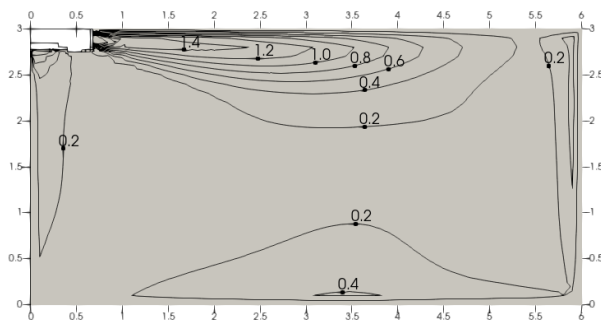


Figure 9.6: VEFC019T0A-DWV056 heating at 300S

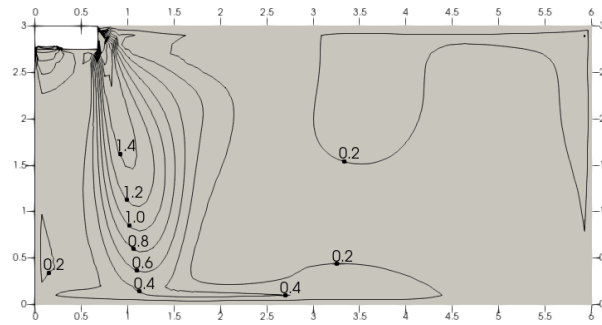


Figure 9.7: VEFC024T0A-DWV071 cooling at 300S

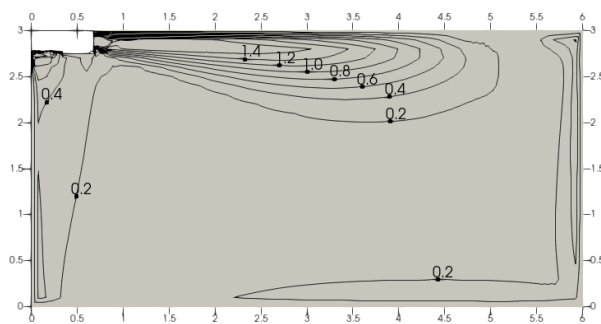


Figure 9.8: VEFC024T0A-DWV071 heating at 300S

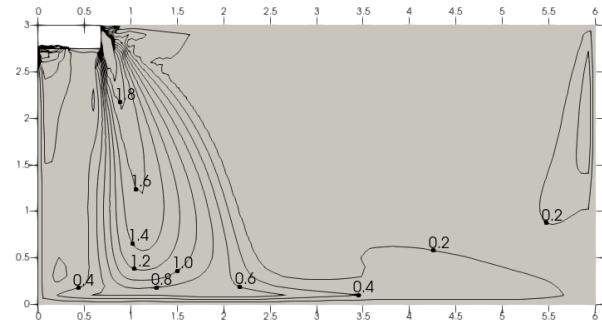


Figure 9.9: VEFC027T0A-DWV080 cooling at 300S

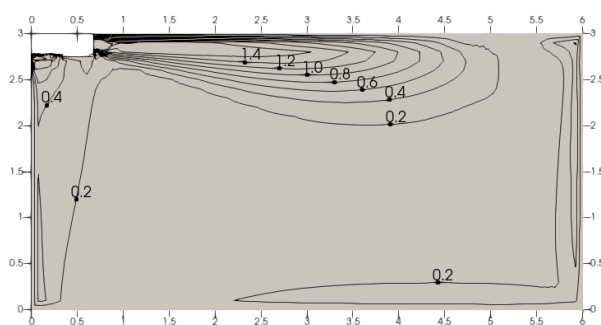


Figure 9.10: VEFC027T0A-DWV080 heating at 300S

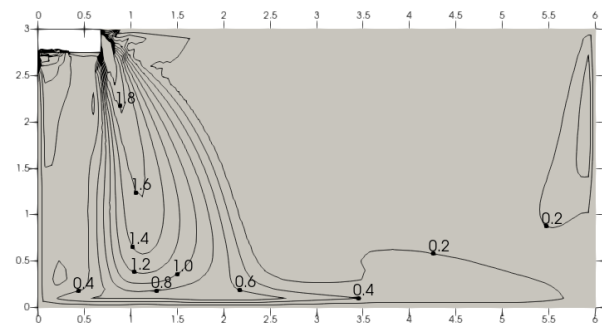


Figure 9.11: VEFC031T0A-DWV090 cooling at 300S

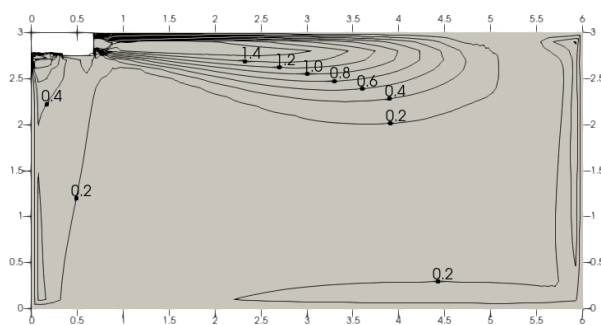
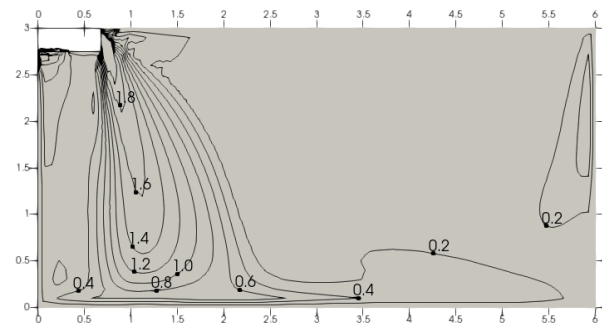


Figure 9.12: VEFC031T0A-DWV090 heating at 300S



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Figure 9.13: VEFC035T0A-DWV100 cooling at 300S

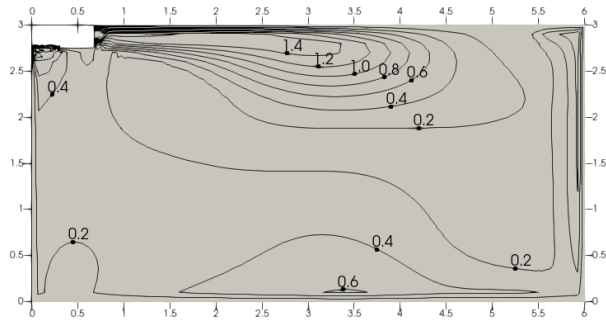


Figure 9.14: VEFC035T0A-DWV100 heating at 300S

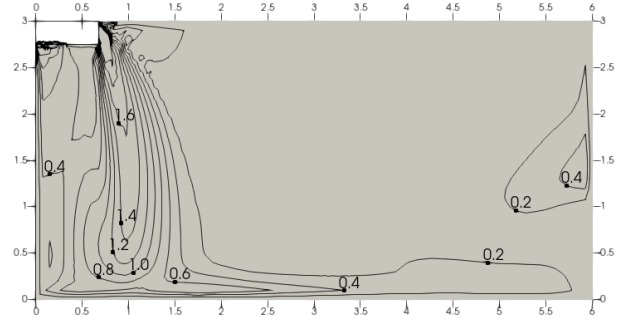


Figure 9.15: VEFC038T0A-DWV112 cooling at 300S

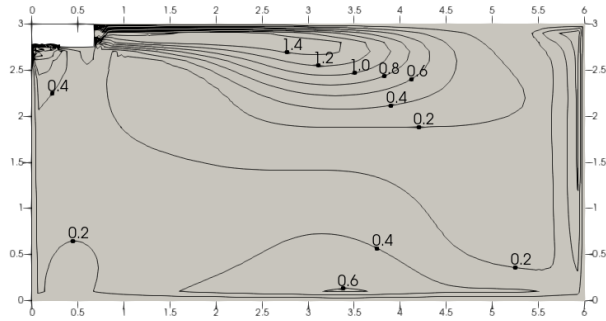


Figure 9.16: VEFC038T0A-DWV112 heating at 300S

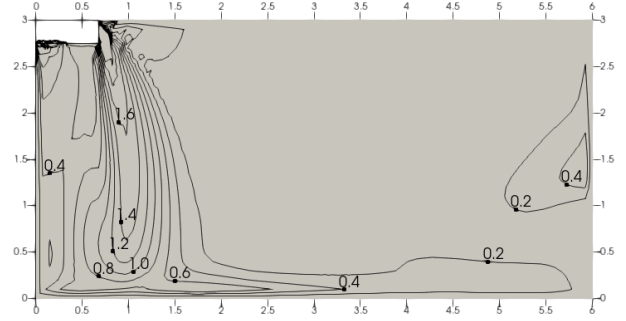


Figure 9.17: VEFC042T0A-DWV125 cooling at 300S

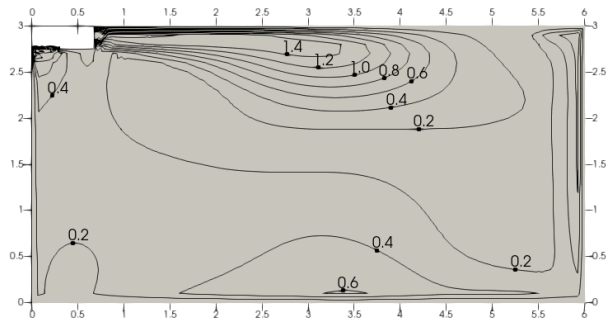


Figure 9.18: VEFC042T0A-DWV125 heating at 300S

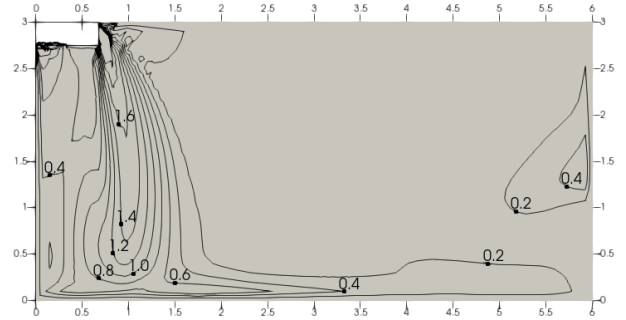


Figure 9.19: VEFC048T0A-DWV140 cooling at 300S

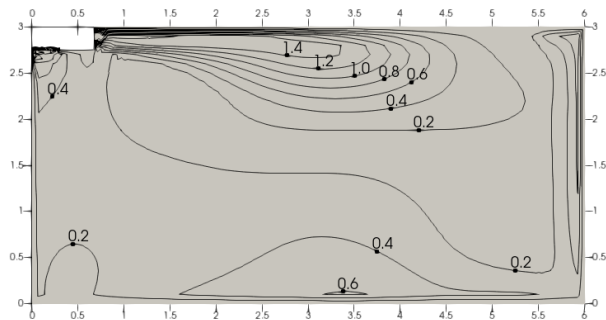
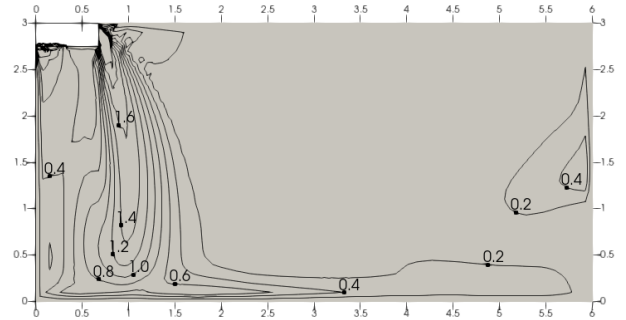


Figure 9.20: VEFC048T0A-DWV140 heating at 300S



9.3 Temperature distributions

Figure 9.21: VEFC012T0A-DWV036 cooling at 300S

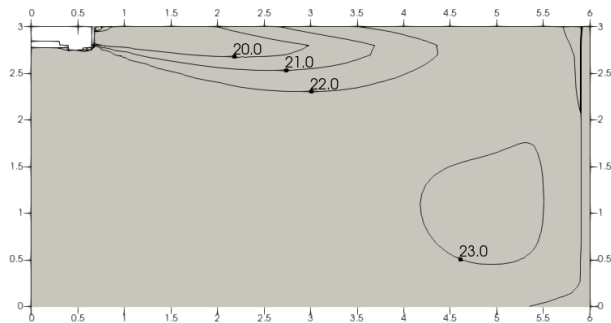


Figure 9.23: VEFC015T0A-DWV045 cooling at 300S

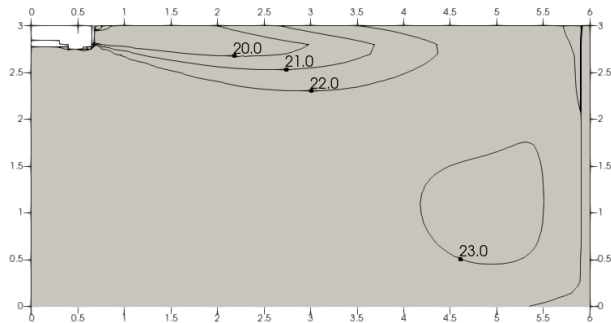


Figure 9.25: VEFC019T0A-DWV056 cooling at 300S

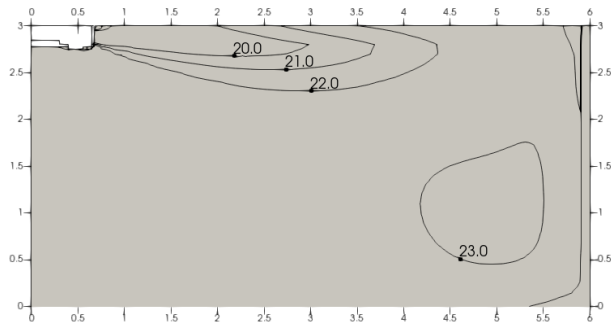


Figure 9.27: VEFC024T0A-DWV071 cooling at 300S

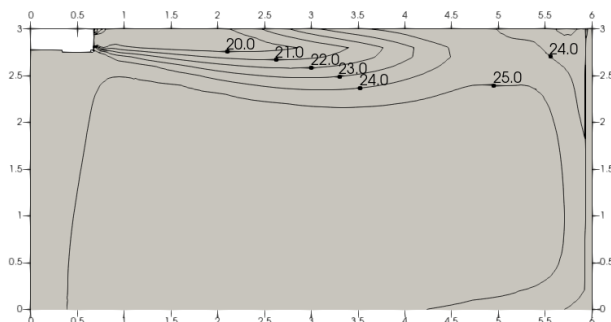


Figure 9.29: VEFC027T0A-DWV080 cooling at 300S

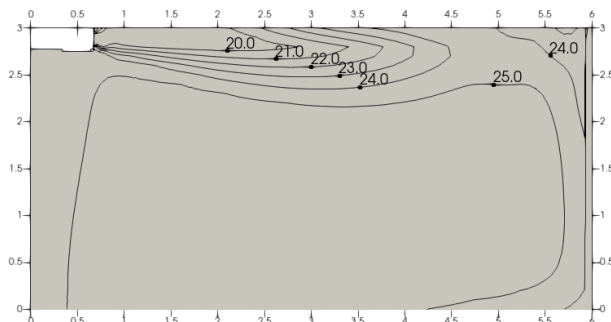


Figure 9.22: VEFC012T0A-DWV036 heating at 300S

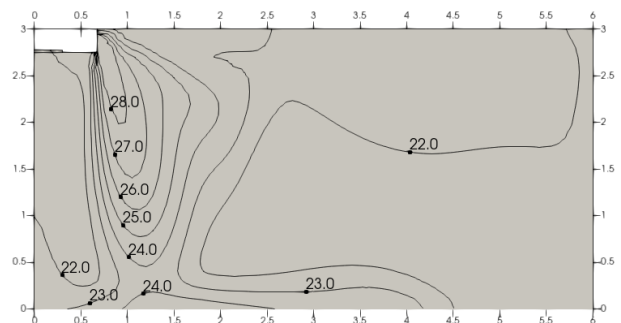


Figure 9.24: VEFC015T0A-DWV045 heating at 300S

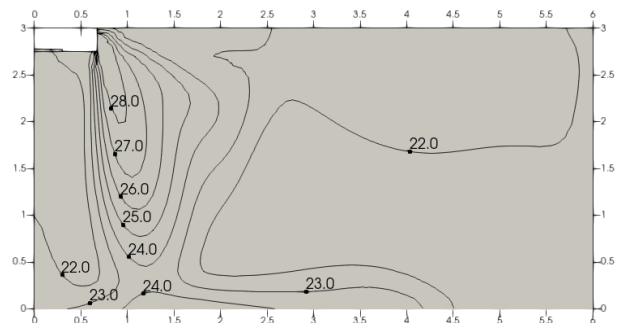


Figure 9.26: VEFC019T0A-DWV056 heating at 300S

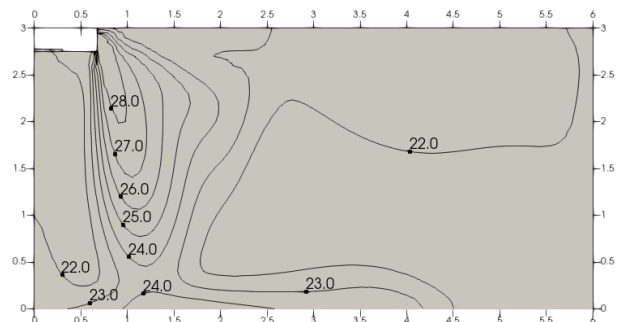


Figure 9.28: VEFC024T0A-DWV071 heating at 300S

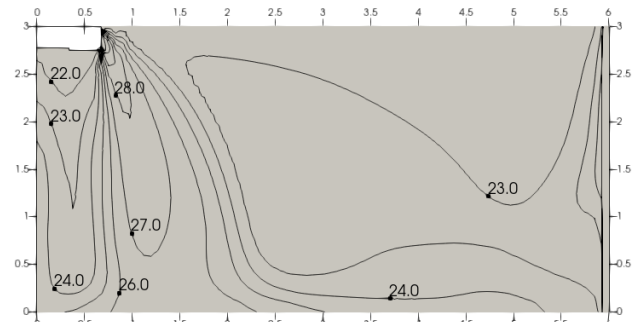
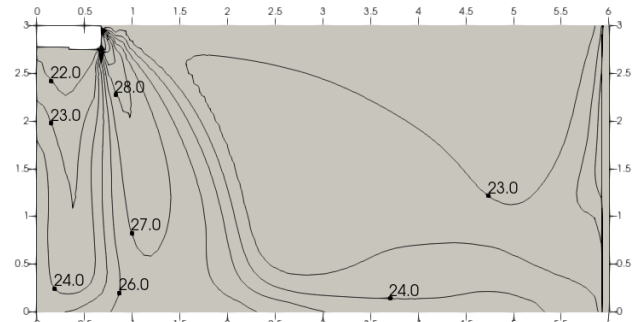


Figure 9.30: VEFC027T0A-DWV080 heating at 300S



VRF Indoor Units

Figure 9.31: VEFC031T0A-DWV090 cooling at 300S

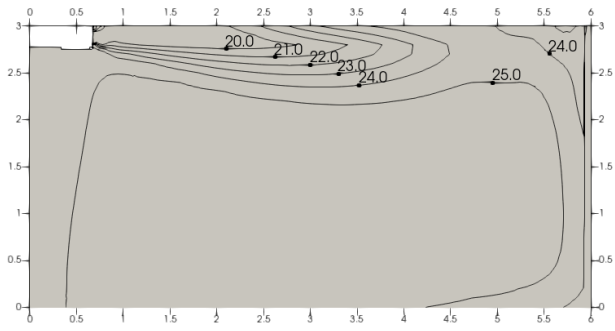


Figure 9.32: VEFC031T0A-DWV090 heating at 300S

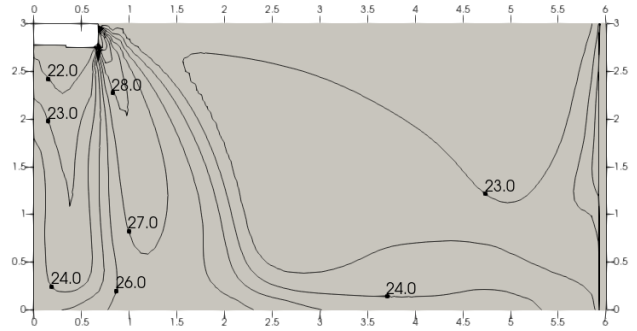


Figure 9.33: VEFC035T0A-DWV100 cooling at 300S

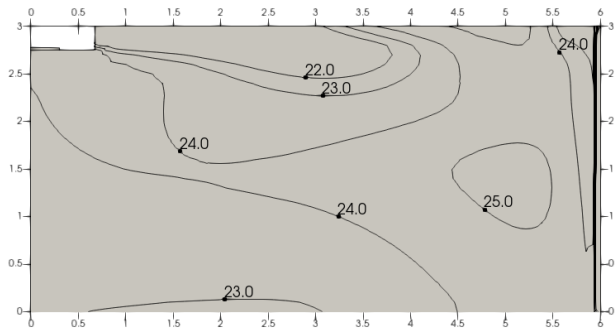


Figure 9.34: VEFC035T0A-DWV100 heating at 300S

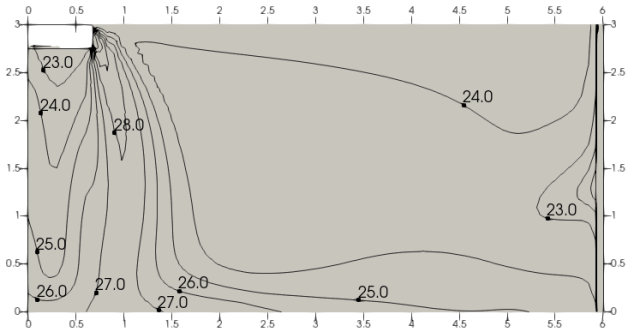


Figure 9.35: VEFC038T0A-DWV112 cooling at 300S

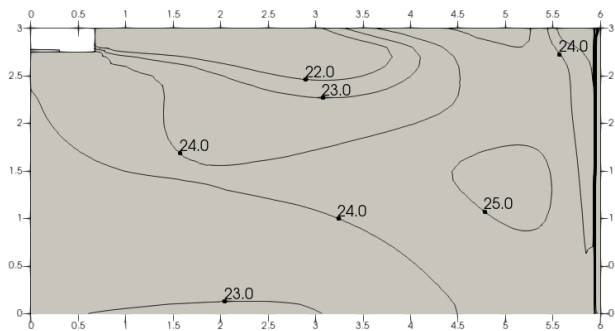


Figure 9.36: VEFC038T0A-DWV112 heating at 300S

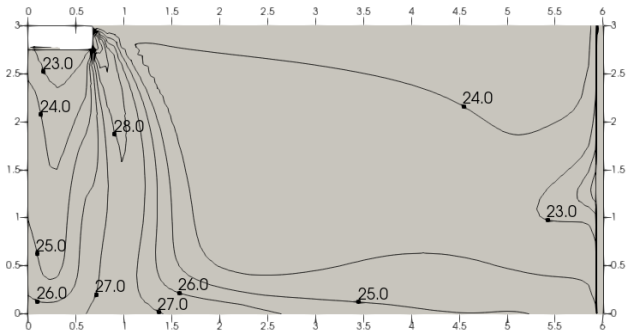


Figure 9.37: VEFC042T0A-DWV125 cooling at 300S

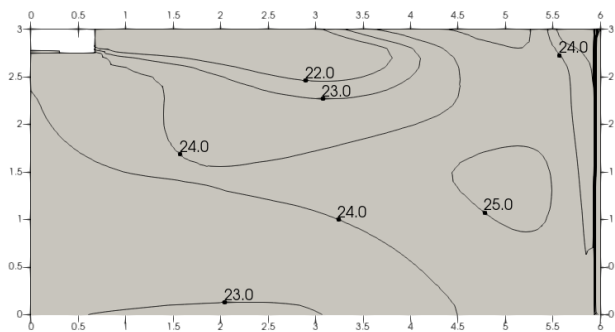


Figure 9.38: VEFC042T0A-DWV125 heating at 300S

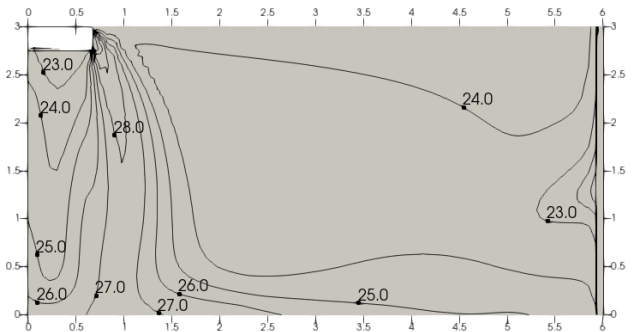


Figure 9.39: VEFC048T0A-DWV140 cooling at 300S

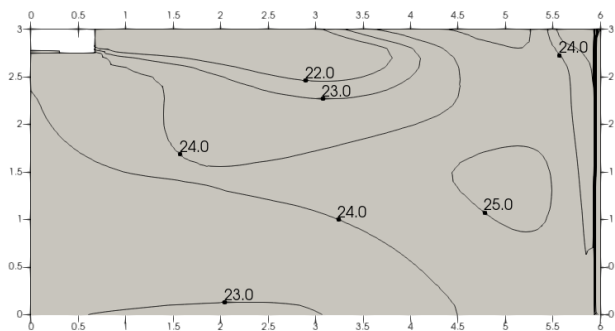
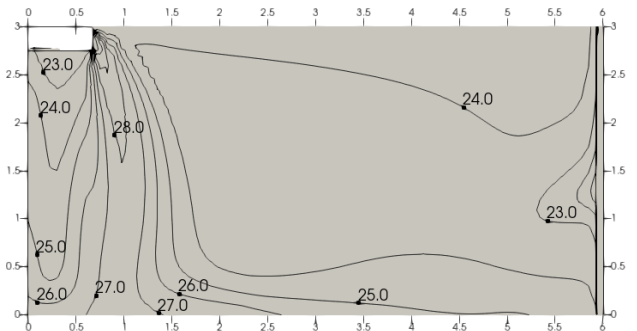


Figure 9.40: VEFC048T0A-DWV140 heating at 300S





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