

ENGINEERING DATA

**Inverter Split Unit Air Conditioner
Ceiling Concealed
Cooling Only [50Hz]**

FDMFC-A Series



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Introduction

Model Name and Power Supply

Indoor Unit	Outdoor Unit	Power Supply
FDMFC50AV1M	RZFC50BGVMM	1Phase, 220-240V, 50Hz
FDMFC60AV1M	RZFC60BGVMM	
FDMFC71AV1M	RZFC71BGVMM	
FDMFC85AV1M	RZFC85BVMM	
FDMFC100AV1M	RZFC100BVMM	
FDMFC125AV1M	RZFC125BY1M	3Phase, 380-415V, 50Hz
FDMFC140AV1M	RZFC140BY1M	

Nomenclature

Indoor Unit

Definition	Description
Unit Category	F : Air-Cooled Split Indoor Unit
Product Type	D : Ceiling Concealed Ducted
Static Pressure	M : Mid E.S.P
System	F : R32, Cooling Only
Grade	C : Entry, Inverter
Capacity Indication*	50 : 5.0 kW
Major Design Category	A : A Series
Power Supply	V1 : 1Phase / 50Hz / 220-240V
Country	M : Malaysia

Outdoor Unit

Definition	Description
Unit Category	R : Air-Cooled Split Outdoor Unit
System	Z : R32, Inverter
Refrigerant & Mode	F : R32, Cooling Only
Grade	C : Entry, Inverter
Capacity Indication*	50 : 5.0 kW
Major Design Category	B : B Series
Fin Specification	“ μ ” : Microchannel Heat Exchanger G : Gold Fin
Power Supply	VM : 1Phase / 50Hz / 220-240V, 1Phase / 60Hz / 220-230V Y1 : 3Phase / 50Hz / 380-415V
Country	M : Malaysia

Remark:

*Capacity value under Nomenclature is an indication.
Please refer to Specifications for exact capacity value.

Functions

Category	Functions	FDMFC50/60/71A RZFC50/60/71	FDMFC85/100/125/14A RZFC85/100/125/140
Basic Function	Inverter	●	●
	Operation Limit for Cooling (°CDB)(O/D)	21~46	21~46
	Operation Limit for Cooling (°FDB)(O/D)	69.8~114.8	69.8~114.8
	Operation Limit for Heating (°CWB)(O/D)	-	-
	Operation Limit for Heating (°FWB)(O/D)	-	-
Compressor	Scroll Compressor	-	-
	Rotary Compressor	-	-
	Swing Compressor	●	●
Comfortable Airflow	4-Way Airflow Operation	-	-
	8-Way Airflow Operation	-	-
	Surround Airflow Operation	-	-
Comfort Control	Auto Fan Speed	●	●
	Switchable Fan Speed	●	●
	Auto Swing	-	-
	Indoor Unit Quiet Operation	-	-
Operation	Programme Dry Function	●	●
	ECO +	-	-
	Powerful/Turbo Mode	-	-
	Sleep	●	●
	Fan Only	●	●
Lifestyle Convenience	Indoor Unit ON/OFF Button	-	-
	Signal Receiving Sign * ¹	-	-
	R/C with Backlight * ²	●*	●*
	LED Display ON/OFF Button	-	-
	Room Temperature Display * ²	●*	●*
	Streamer ON/OFF Button * ¹	-	-
Health & Clean	Saranet Filter	●*	●*
	GIN-ION Blue Filter	-	-
	PM 2.5	-	-
	Titanium Apatite	-	-
	Streamer	-	-
	Ionizer	-	-
	Fresh Air Intake Kit	-	-
Timer	Washable Grille	-	-
	Weekly Timer Operation * ³	●*	●*
	24-hour ON/OFF Timer (R/C) * ¹	●	●
	24-hour RTC	●*	●*
Worry Free (Reliability & Durability)	Auto Restart (After Power Failure)	●	●
	Self-diagnosis	●	●
	Wiring Error Check Function	●	●
	Anti-corrosion Treatment of Outdoor Heat Exchanger	Gold Fin	MCHE
	Low/High Voltage Shield	-	-
	R32 Refrigerant Gas Sensor	-	-
Flexibility	ESP Selection	●	●
	Water Pump (Water Drainage Pipe Flexibility)	●*	●*
	°F/°C Changeover R/C Temperature Display (Factory setting: °C)	●	●
	Pre-charged Piping Length	10m	15m
Remote Control	Wireless LAN Connectivity	●*	●*
	BAG Connectivity	-	-
	iTM Connectivity	-	-
Remote Controller	Wireless (Optional)	DGS01	DGS01
	Wired	DSL8	DSL8
	Wired (Optional)	BRC51D62	BRC51D62

Note: ● : Available

- : Not Available

●* : Optional (Refer to DAMA Spare Part team for more details on optional items.)

*¹: Applicable when wireless (DGS01) remote controller is used for selected models.

*²: Applicable when wired (BRC51D62) (SHIRO) is used.

*³: Applicable when wired (DSL8 / BRC51D62) remote controller is used.

Specifications

MODEL		INDOOR UNIT		FDMFC50A	FDMFC60A	FDMFC71A	FDMFC85A
		OUTDOOR UNIT		RZFC50B	RZFC60B	RZFC71B	RZFC85B
Rated Capacity (Min - Max)			kW	5.42 (2.30-5.60)	6.00 (2.60-6.30)	7.10 (3.20-8.00)	8.79 (4.20-10.00)
			Btu/h	18500 (7800-19100)	20500 (8900-21500)	24200 (10900-27300)	30000 (14300-34100)
Rated Running Current			A	8.51	10.10	9.20	12.40
Rated Power Consumption			W	1940	2300	2105	2770
EER			W/W	2.79	2.61	3.37	3.17
CSPF			Wh/Wh	4.16	4.13	4.36	4.76
Power Factor (Rated)				0.99	0.99	0.99	0.97
Piping Connections	Liquid	mm	6.4			9.5	
	Gas	mm	12.7			15.9	
Refrigerant	Type		R32				
	Charge	kg	0.95	0.95	1.15	0.95	
Max. Interunit Piping Length			m	30	30	30	50
Max. Interunit Height Difference			m	15	15	15	30
Drawing No.				3D138361A			
INDOOR UNIT				FDMFC50A	FDMFC60A	FDMFC71A	FDMFC85A
Airflow Rate	Super High	CFM	590			950	
	High	CFM	590			950	
	Medium	CFM	525			810	
	Low	CFM	430			700	
Sound Pressure Level (SH/H/M/L)	dBA	40/40/38/34			41/41/38/35		
External Static Pressure	Standard (H/M/L)	Pa	30/22/17				
	High (SH/M/L)	Pa	50/22/17				
Fan	Type		SIROCCO				
	Drive		DIRECT				
Fan Motor	Type		AC				
	Motor Output	W	97			150	
	Running Current (Rated)	A	0.64			0.91	
	Power Consumption (Rated)	W	149			208	
Air Direction Control				DUCTED			
Air Filter				N/A			
Dimensions (H x W x D)			mm	250 x 700 x 700			250 x 1000 x 700
Packaged Dimensions (H x W x D)			mm	337 x 916 x 924			337 x 1216 x 924
Weight			kg	24			31
Condensate Drain Size			mm	32			
Drawing No.				3D138360-1	3D138360-2	3D138360-3	3D138360-4
OUTDOOR UNIT				RZFC50B	RZFC60B	RZFC71B	RZFC85B
Casing Colour				IVORY WHITE			
Airflow Rate	High	CFM	1464	1464	1464	2186	
Sound Pressure Level	dBA		52	52	52	53	
Fan	Type		PROPELLER				
	Drive		DIRECT				
Fan Motor	Type		DC				
	Index of protection (IP)		23				
	Insulation Grade		E				
	Running Current (Rated)	A	0.92	0.92	0.92	1.26	
	Power Consumption (Rated)	W	71	71	71	131	
	Motor Output	W	68	68	68	55	
Compressor	Poles		8				
	Type		HERMETIC SWING				
	Oil type		DAPHNE FW68DA				
	Oil amount	cm³	350	350	650	425	
Heat Exchanger Type				FIN TUBE	FIN TUBE	FIN TUBE	MICROCHANNEL
Dimensions (H x W x D)			mm	615 x 845 x 300	615 x 845 x 300	615 x 845 x 300	695 x 930 x 350
Packaged Dimensions (H x W x D)			mm	679 x 992 x 414	679 x 992 x 414	679 x 992 x 414	760 x 1084 x 473
Weight			kg	37	37	37	40
Document No.				2D138363E			

1) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).

2) ALL SPECIFICATIONS ARE SUBJECT TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

COOLING
INDOOR: 27°CDB / 19°CWB
OUTDOOR: 35°CDB

MODEL	INDOOR UNIT		FDMFC100A	FDMFC125A	FDMFC140A
	OUTDOOR UNIT		RZFC100B	RZFC125B	RZFC140B
Rated Capacity (Min - Max)	kW		10.55 (5.00-11.20)	12.31 (5.70-14.00)	14.07 (6.20-15.50)
	Btu/h		36000 (17100-38200)	42000 (19500-47800)	48000 (21200-52900)
Rated Running Current	A		15.60	7.23	8.24
Rated Power Consumption	W		3520	4680	5390
EER	W/W		3.00	2.63	2.61
CSPF	Wh/Wh		4.59	3.98	4.38
Power Factor (Rated)			0.98	0.93	0.94
Piping Connections	Liquid	mm	9.5		
	Gas	mm	15.9		
Refrigerant	Type		R32		
	Charge	kg	0.95	1.35	1.35
Max. Interunit Piping Length	m		50		
Max. Interunit Height Difference	m		30		
Drawing No.			3D138361A		
	INDOOR UNIT		FDMFC100A	FDMFC125A	FDMFC140A
Airflow Rate	Super High	CFM	1260		
	High	CFM	1260		
	Medium	CFM	1095		
	Low	CFM	920		
Sound Pressure Level (SH/H/M/L)	dBA		42/42/39/36	42/42/39/36	43/42/40/36
External Static Pressure	Standard (H/M/L)	Pa	50/38/27		
	High (SH/M/L)	Pa	80/38/27		
Fan	Type		SIROCCO		
	Drive		DIRECT		
Fan Motor	Type		AC		
	Motor Output	W	187	187	240
	Running Current (Rated)	A	1.20	1.20	1.24
	Power Consumption (Rated)	W	268	268	285
Air Direction Control			DUCTED		
Air Filter			N/A		
Dimensions (H x W x D)	mm		250 x 1400 x 700		
Packaged Dimensions (H x W x D)	mm		337 x 1616 x 924		
Weight	kg		40	40	42
Condensate Drain Size	mm		32		
Document No.			3D138360-5	3D138360-6	3D138360-7
	OUTDOOR UNIT		RZFC100B	RZFC125B	RZFC140B
Casing Colour			IVORY WHITE		
Airflow Rate	High	CFM	2186	2885	2885
Sound Pressure Level	dBA		54	54	56
Fan	Type		PROPELLER		
	Drive		DIRECT		
Fan Motor	Type		DC	AC	AC
	Index of protection (IP)		23	44	44
	Insulation Grade		E	F	F
	Running Current (Rated)	A	1.26	0.93	0.93
	Power Consumption (Rated)	W	131	198	198
	Motor Output	W	55	125	125
	Poles		8	6	6
Compressor	Type		HERMETIC SWING		
	Oil type		DAPHNE FW68DA		
	Oil amount	cm ³	425	900	900
Heat Exchanger Type			MICROCHANNEL		
Dimensions (H x W x D)	mm		695 x 930 x 350	990 X 940 X 320	990 X 940 X 320
Packaged Dimensions (H x W x D)	mm		760 x 1084 x 473	1126 x 1003 x 396	1126 x 1003 x 396
Weight	kg		40	62	62
Document No.			2D138363E		

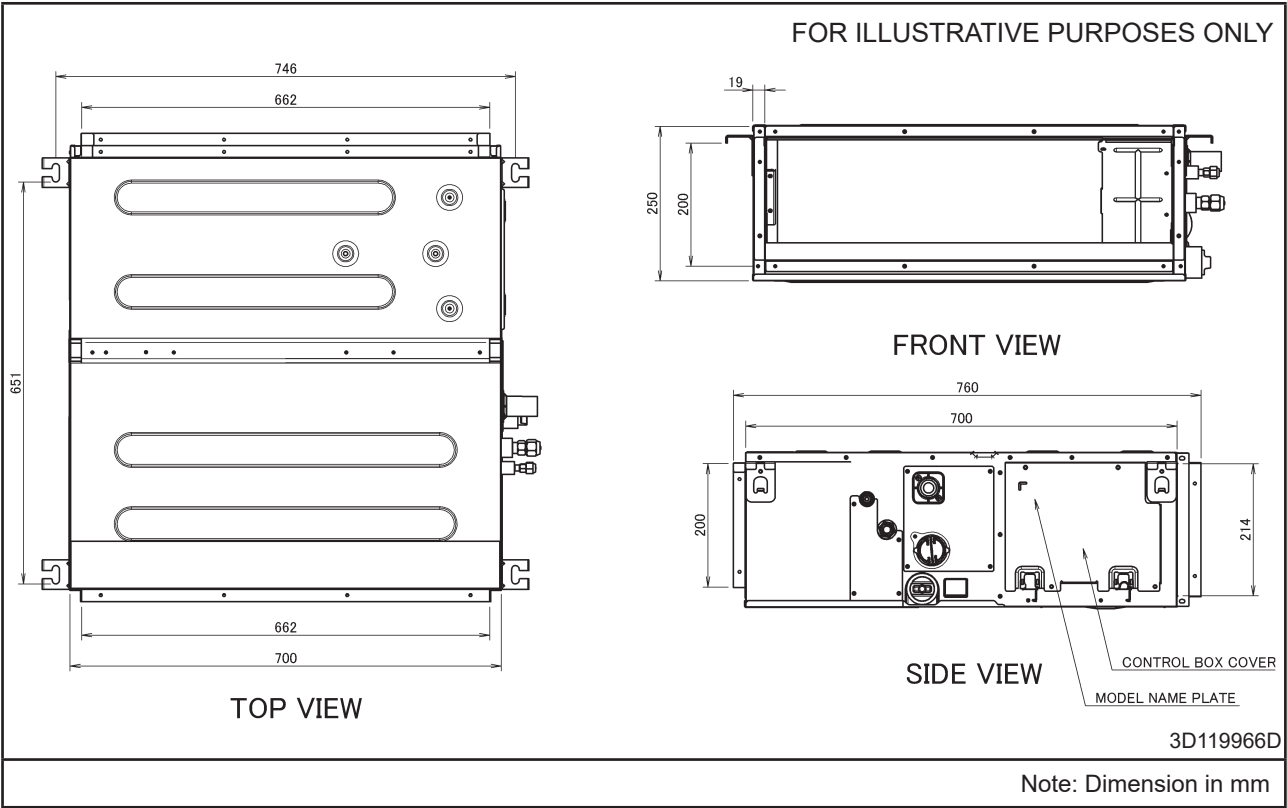
1) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151 (NON-DUCTED UNIT) OR ISO 13253 (DUCTED UNIT).
2) ALL SPECIFICATIONS ARE SUBJECT TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

COOLING
INDOOR: 27°CDB / 19°CWB
OUTDOOR: 35°CDB

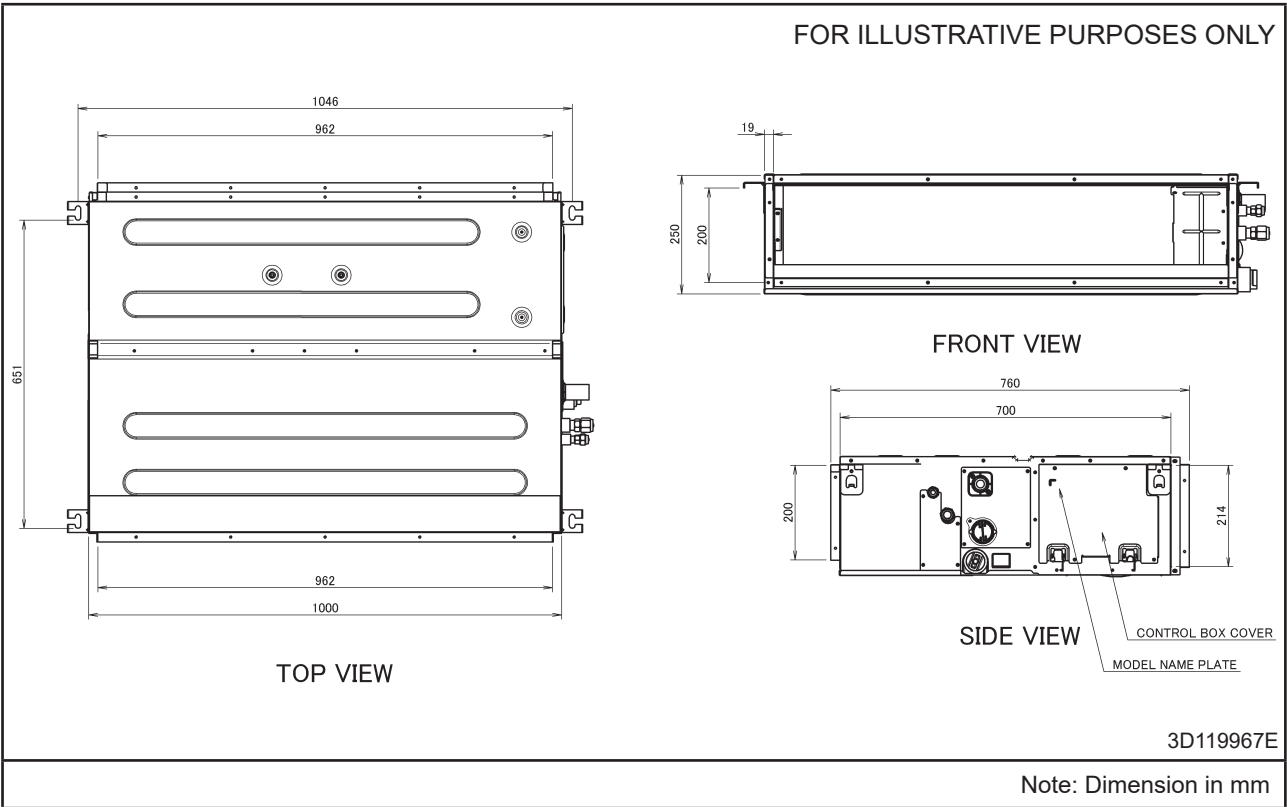
Dimensions

Indoor Unit

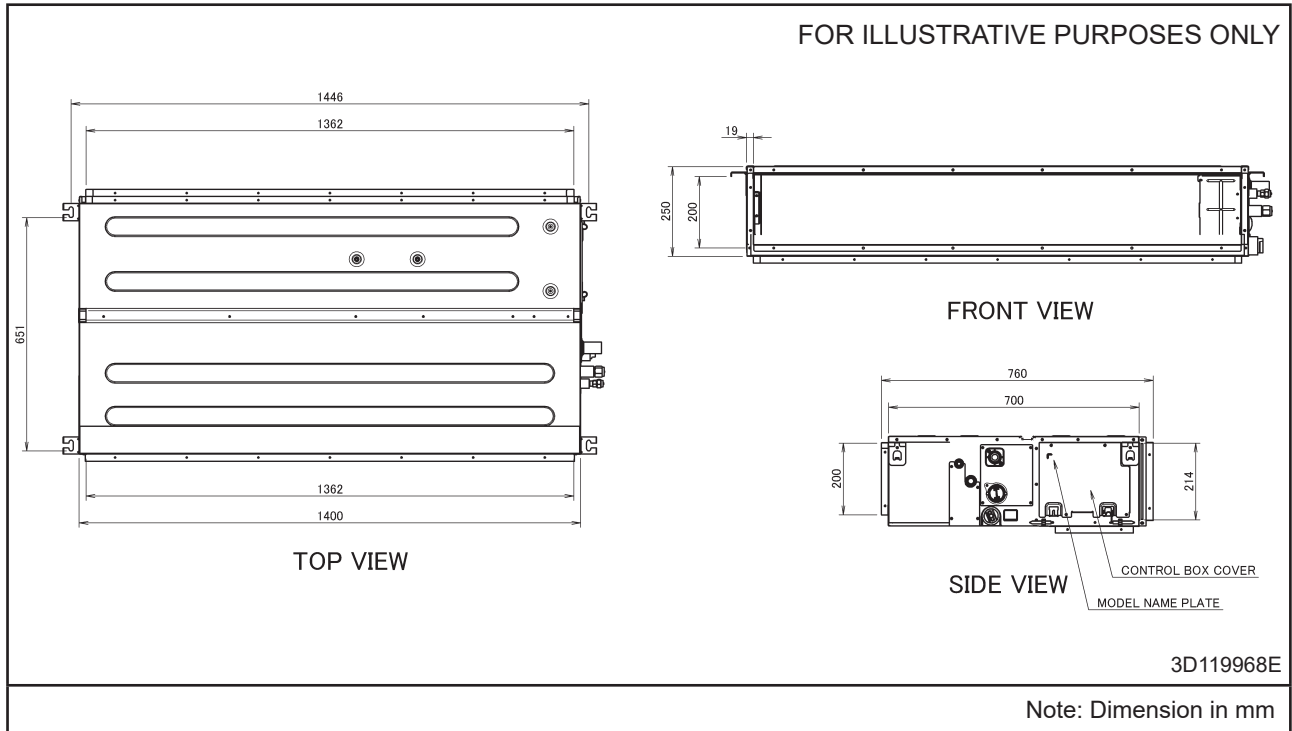
Model : FDMFC50/60A



Model : FDMFC71/85A

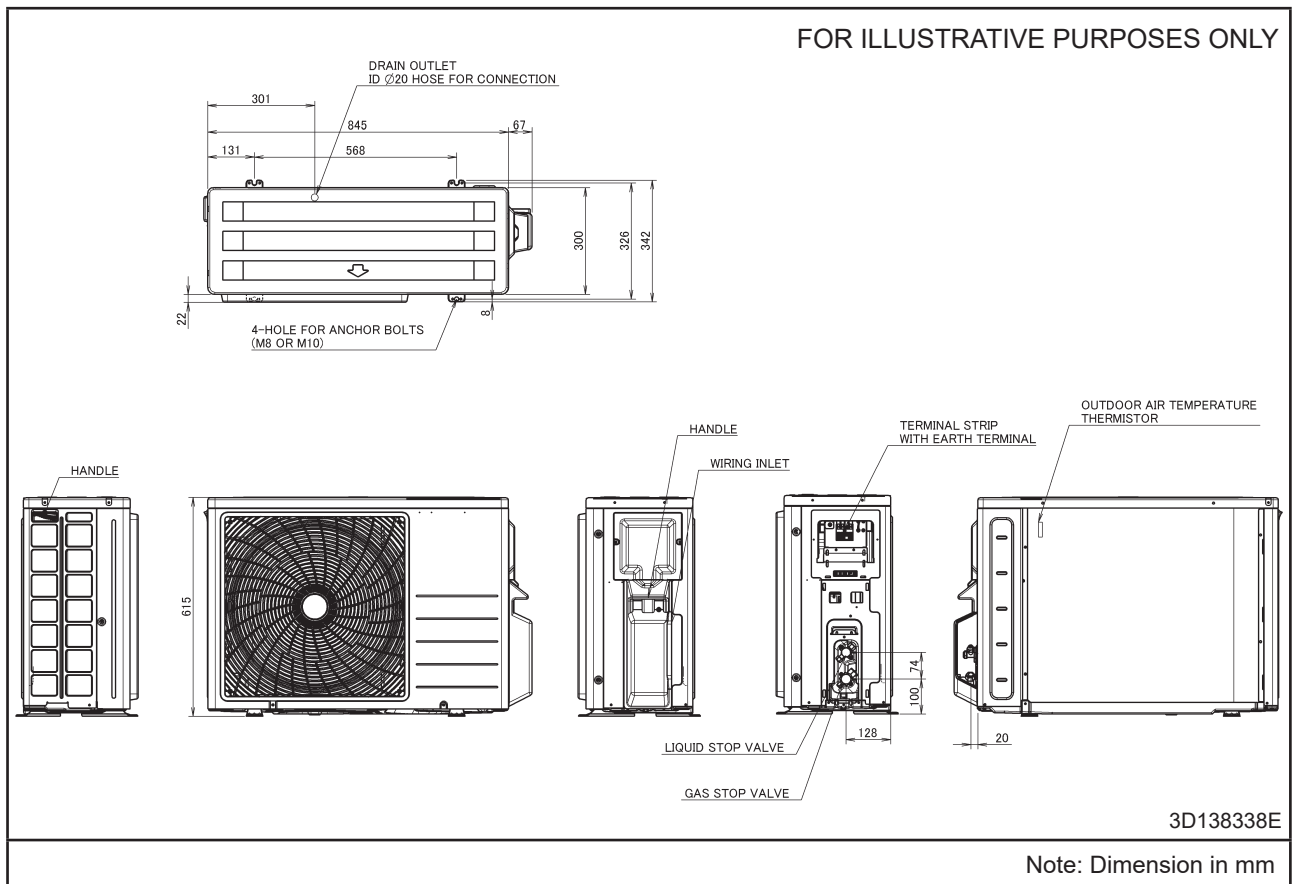


Model : FDMF100/125/140A



Outdoor Unit

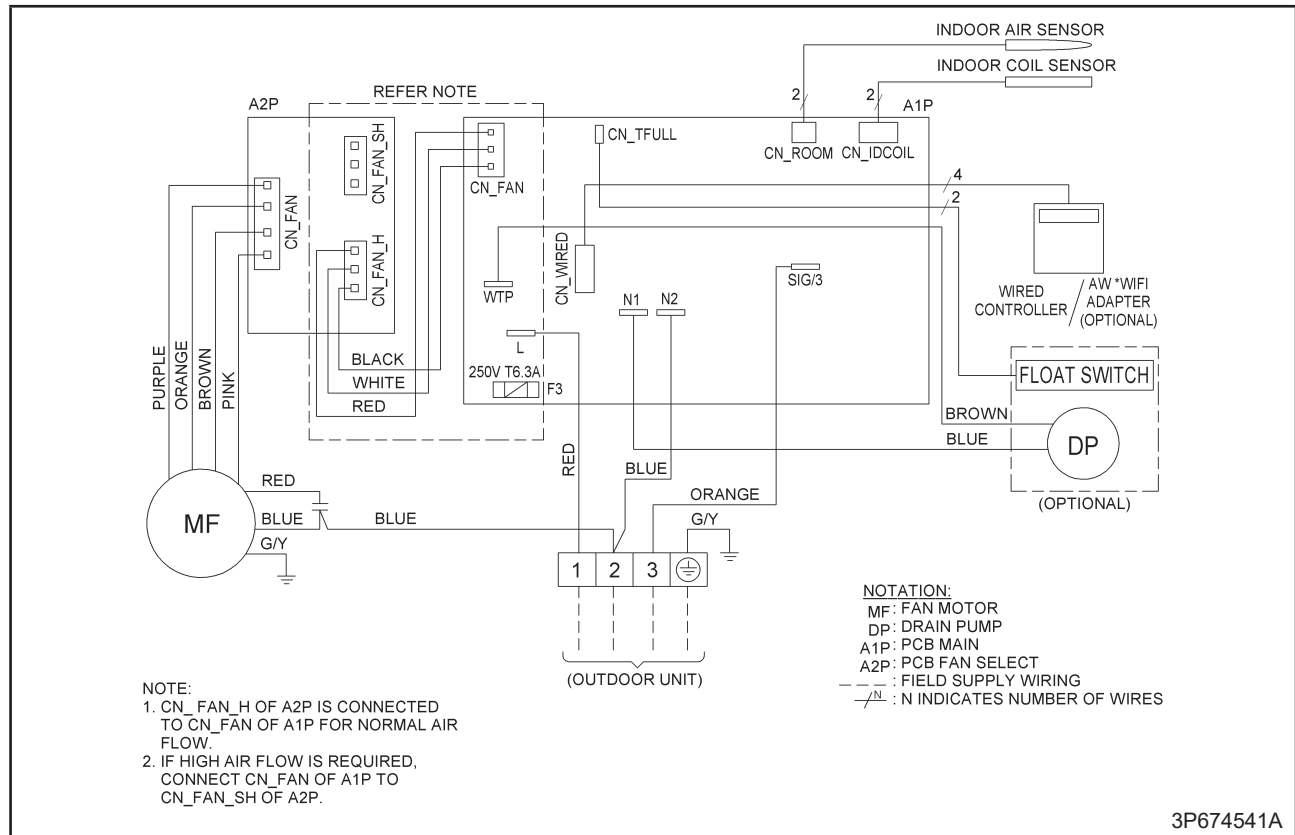
Model : RZFC50/60/71



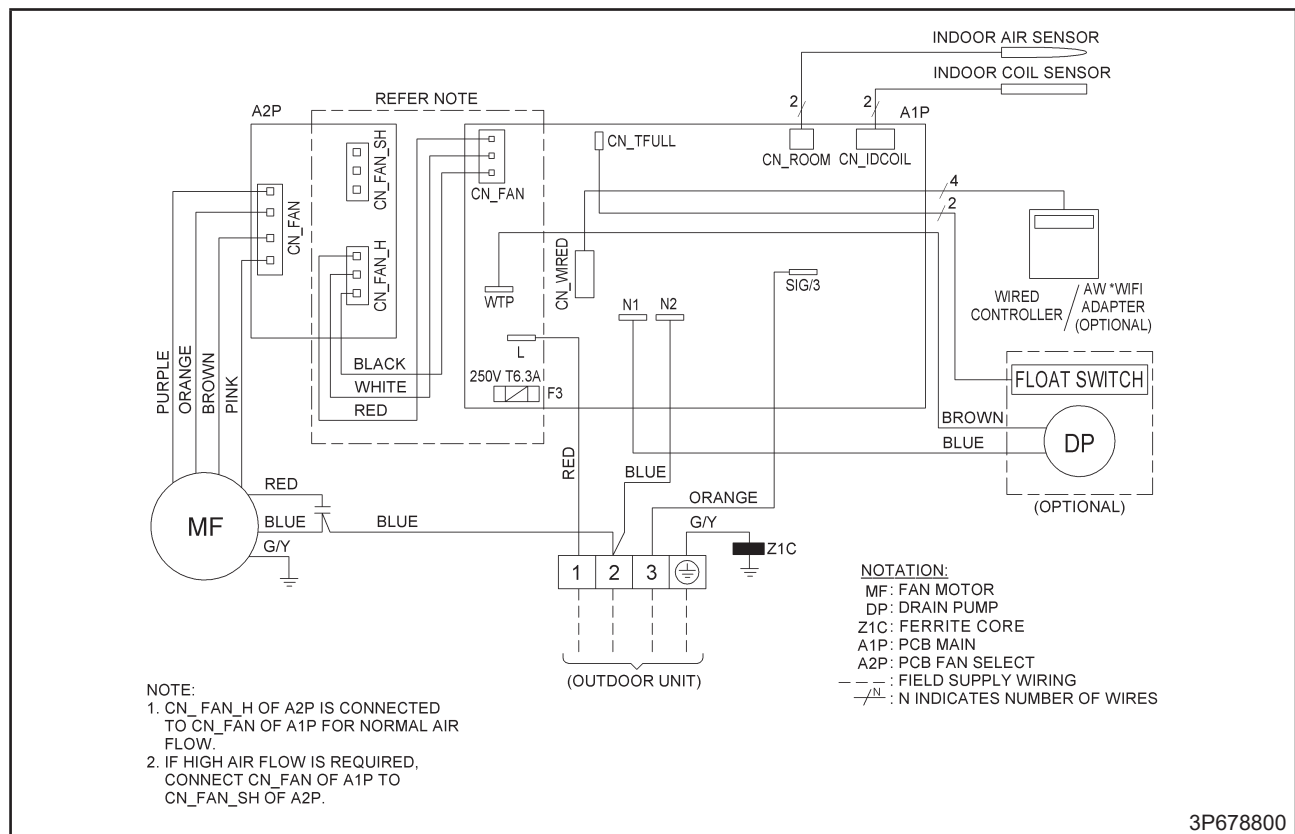
Wiring Diagrams

Indoor Unit

Model : FDMFC50/60/71/125/140A

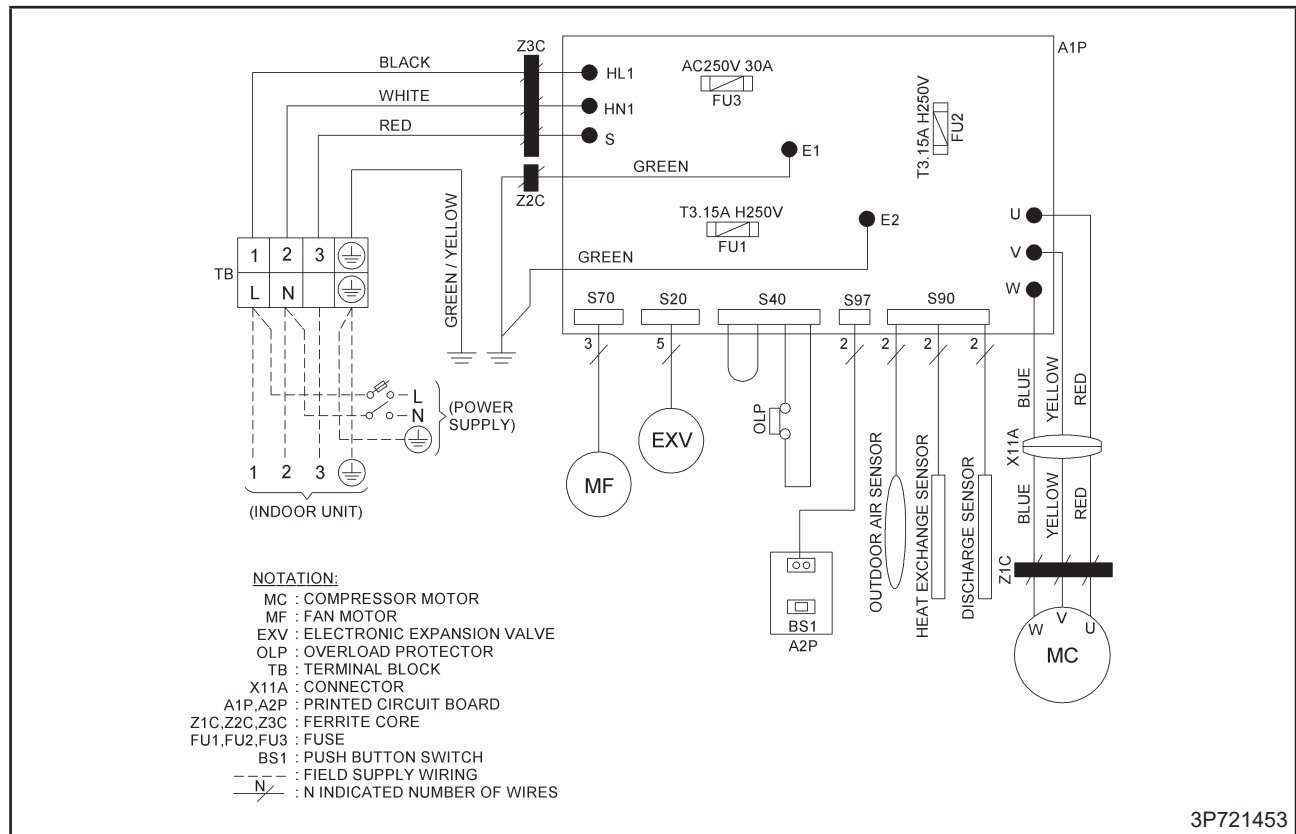


Model : FDMFC85/100A



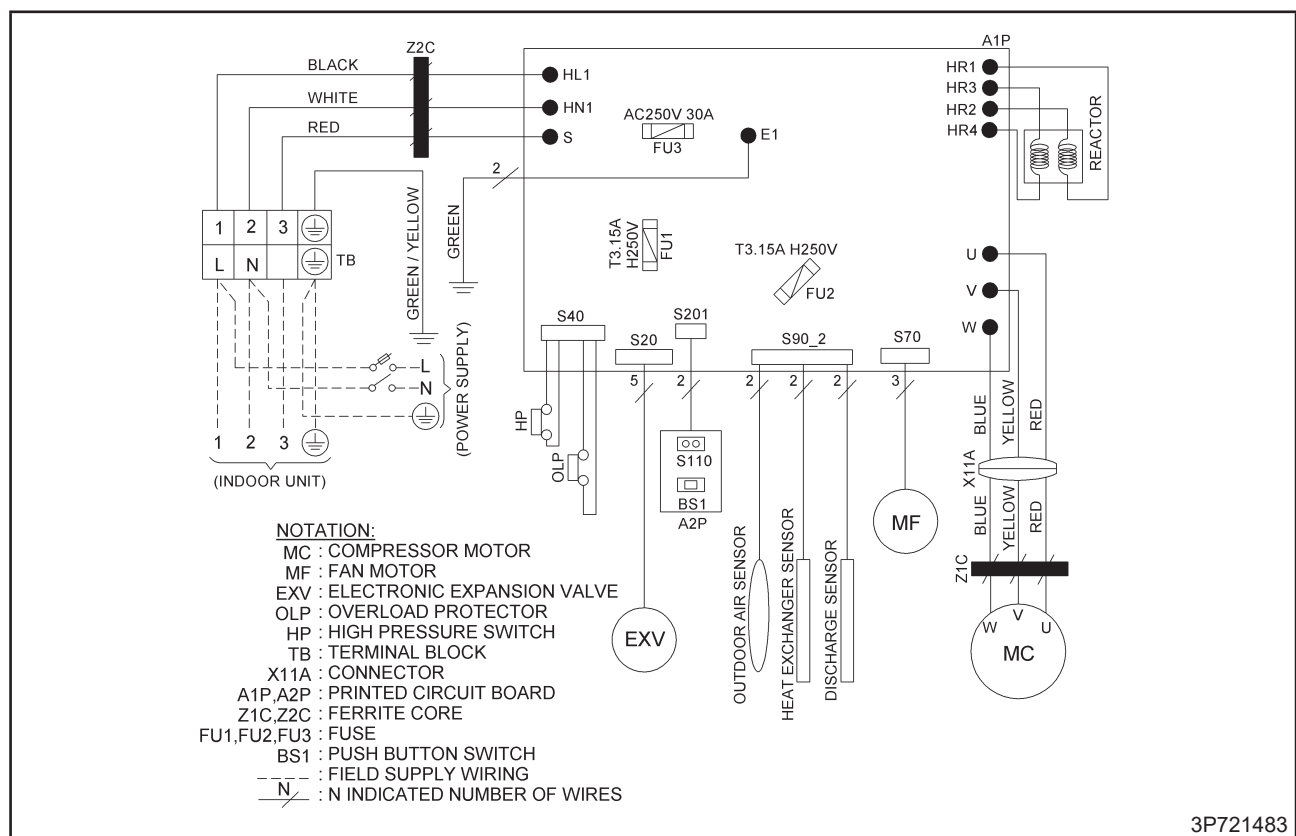
Outdoor Unit

Model : RZFC50/60/71



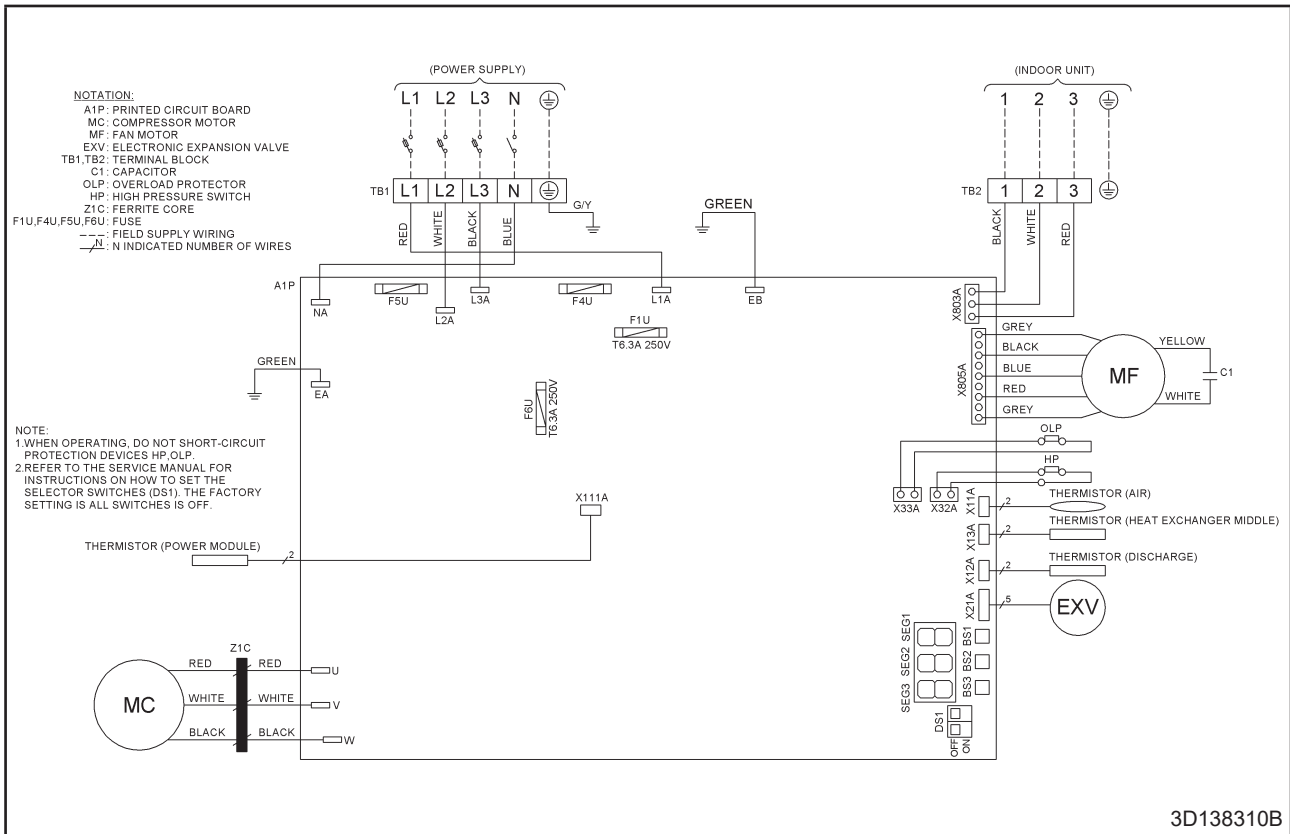
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Model : RZFC85/100



3P721483

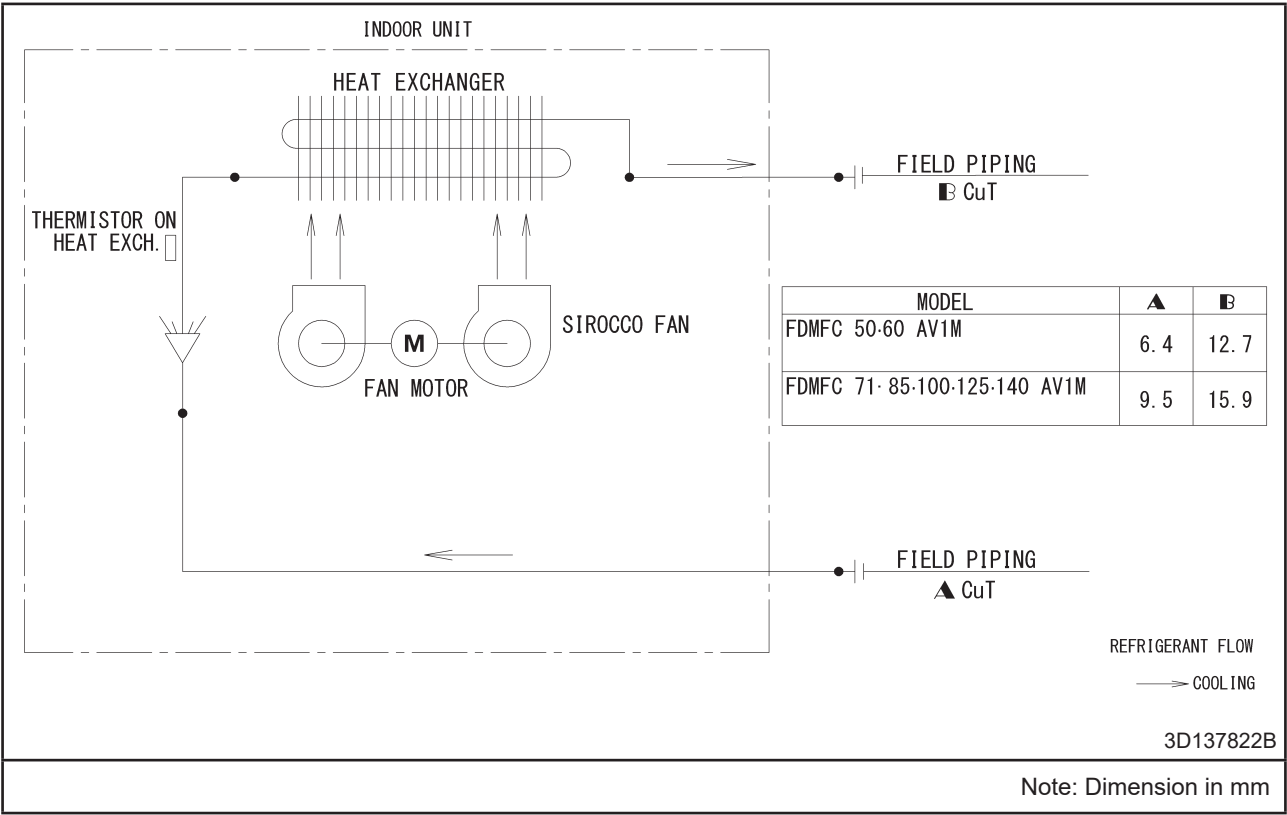
Model : RZFC125/140



Piping Diagrams

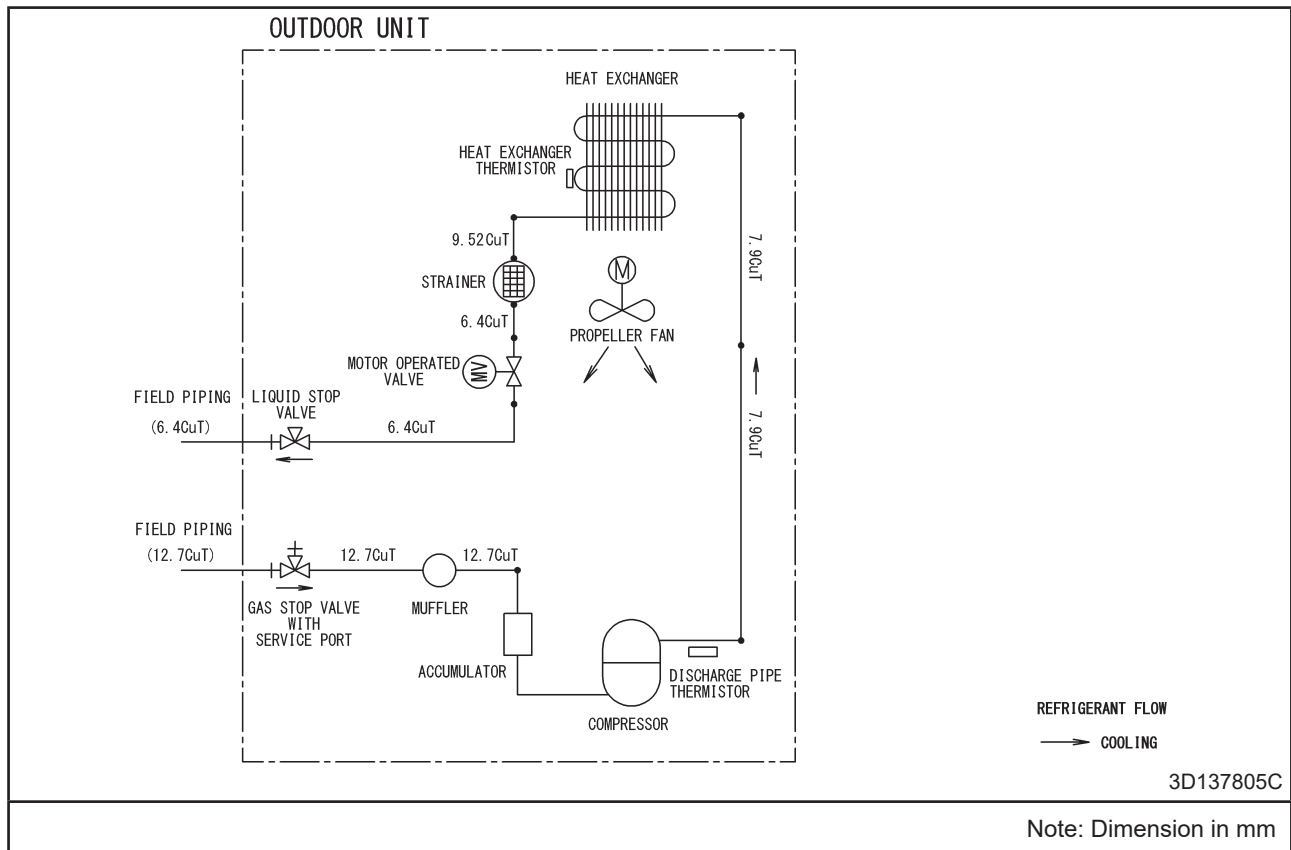
Indoor Unit

Model : FDMFC-A

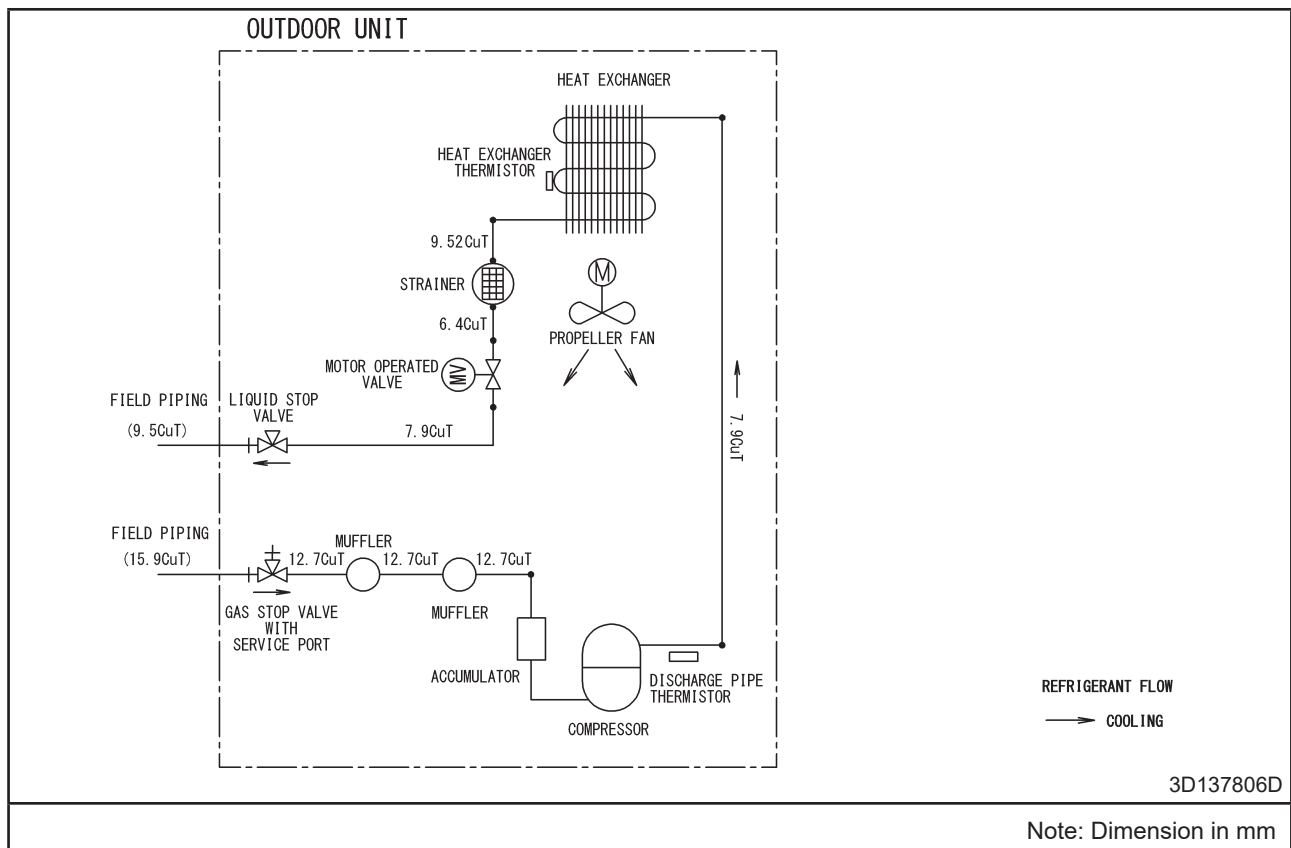


Outdoor Unit

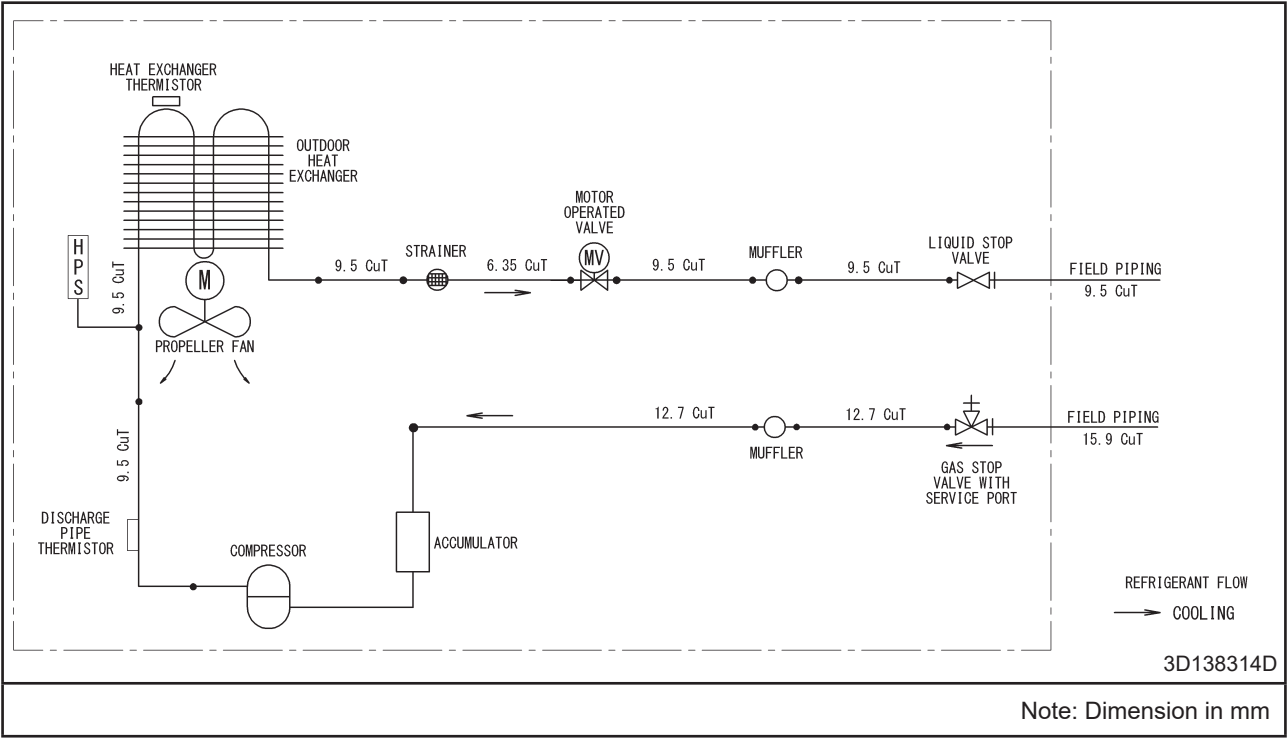
Model : RZFC50/60



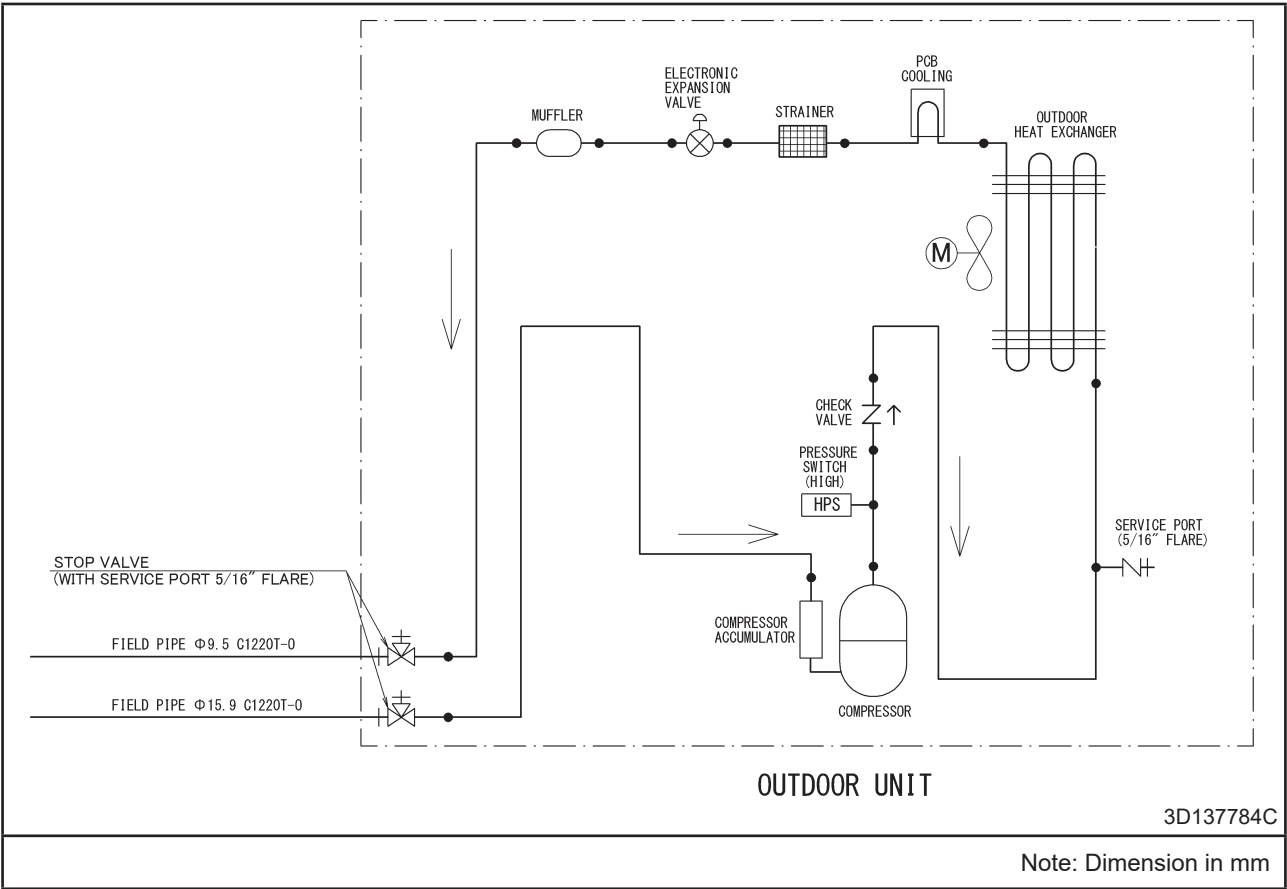
Model : RZFC71



Model : RZFC85/100



Model : RZFC125/140



Capacity Tables

Cooling Only

Model : FDMFC50A - RZFC50

AFR	16.71
BPF	0.22

Cooling: 220 - 240V 50Hz

Indoor Temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	5.55	4.09	1.48	5.30	3.96	1.63	5.04	3.83	1.77	4.95	3.78	1.83	4.79	3.70	1.92	4.54	3.58	2.06
16	22	5.81	4.01	1.50	5.55	3.89	1.64	5.29	3.76	1.79	5.20	3.72	1.84	5.04	3.65	1.92	4.79	3.53	2.07
18	25	6.06	4.18	1.50	5.81	4.07	1.65	5.55	3.96	1.79	5.45	3.91	1.85	5.29	3.84	1.94	5.04	3.74	2.08
19	27	6.18	4.39	1.50	5.93	4.28	1.65	5.67	4.17	1.79	5.57	4.13	1.85	5.42	4.07	1.94	5.17	3.97	2.09
22	30	6.55	4.23	1.52	6.30	4.14	1.67	6.05	4.04	1.81	5.95	4.00	1.87	5.79	3.94	1.96	5.55	3.86	2.10
24	32	6.80	4.12	1.53	6.55	4.03	1.67	6.30	3.95	1.82	6.20	3.91	1.88	6.05	3.86	1.96	5.79	3.77	2.11

Symbols

AFR	:Air flow rate	(m ³ / min)
BPF	:Bypass factor	
EWB	:Entering wet bulb temp.	(°C)
EDB	:Entering dry bulb temp.	(°C)
TC	:Total capacity	(kW)
SHC	:Sensible heat capacity	(kW)
PI	:Power input	(kW)

NOTES:

-  shows nominal (rated) capacities and power input.
- TC, PI and SHC must be calculated by interpolation using the figures in the above tables.
- Capacities are based on the following conditions.

Corresponding refrigerant piping length

:7.5m

Level difference

:0.0m

3D138028A

Model : FDMFC60A - RZFC60

AFR	16.71
BPF	0.16

Cooling: 220 - 240V 50Hz

Indoor Temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	6.15	4.49	1.76	5.86	4.34	1.93	5.58	4.19	2.10	5.47	4.14	2.17	5.31	4.05	2.28	5.02	3.91	2.45
16	22	6.43	4.40	1.77	6.14	4.26	1.94	5.86	4.12	2.12	5.76	4.07	2.19	5.58	3.99	2.28	5.31	3.87	2.46
18	25	6.71	4.58	1.78	6.43	4.46	1.96	6.14	4.33	2.12	6.04	4.28	2.19	5.86	4.20	2.30	5.58	4.08	2.47
19	27	6.84	4.80	1.78	6.56	4.68	1.96	6.28	4.56	2.12	6.17	4.51	2.19	6.00	4.44	2.30	5.72	4.33	2.48
22	30	7.25	4.62	1.80	6.98	4.52	1.98	6.69	4.41	2.14	6.58	4.37	2.21	6.41	4.30	2.32	6.14	4.21	2.49
24	32	7.53	4.50	1.82	7.25	4.40	1.99	6.98	4.31	2.16	6.86	4.27	2.23	6.69	4.21	2.32	6.41	4.11	2.50

Symbols

AFR	:Air flow rate	(m³ / min)
BPF	:Bypass factor	
EWB	:Entering wet bulb temp.	(°C)
EDB	:Entering dry bulb temp.	(°C)
TC	:Total capacity	(kW)
SHC	:Sensible heat capacity	(kW)
PI	:Power input	(kW)

NOTES:

-  shows nominal (rated) capacities and power input.
- TC, PI and SHC must be calculated by interpolation using the figures in the above tables.
- Capacities are based on the following conditions.

Corresponding refrigerant piping length :7.5m
 Level difference :0.0m

3D138029A

Model : FDMFC71A - RZFC71

AFR	26.90
BPF	0.15

Cooling: 220 - 240V 50Hz

Indoor Temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	7.28	5.95	1.61	6.94	5.78	1.77	6.61	5.63	1.92	6.48	5.57	1.98	6.28	5.48	2.09	5.94	5.32	2.24
16	22	7.61	5.84	1.62	7.27	5.69	1.78	6.93	5.54	1.94	6.81	5.49	2.00	6.61	5.40	2.09	6.28	5.26	2.25
18	25	7.93	6.18	1.63	7.61	6.04	1.79	7.27	5.91	1.94	7.14	5.85	2.01	6.93	5.77	2.11	6.60	5.64	2.26
19	27	8.09	6.56	1.63	7.76	6.44	1.79	7.43	6.30	1.94	7.30	6.25	2.01	7.10	6.18	2.11	6.77	6.05	2.27
22	30	8.58	6.36	1.65	8.26	6.24	1.81	7.92	6.13	1.96	7.79	6.08	2.02	7.59	6.01	2.12	7.27	5.90	2.28
24	32	8.91	6.21	1.66	8.58	6.11	1.82	8.26	6.00	1.98	8.12	5.96	2.04	7.92	5.90	2.13	7.59	5.79	2.29

Symbols

AFR	:Air flow rate	(m ³ / min)
BPF	:Bypass factor	
EWB	:Entering wet bulb temp.	(°C)
EDB	:Entering dry bulb temp.	(°C)
TC	:Total capacity	(kW)
SHC	:Sensible heat capacity	(kW)
PI	:Power input	(kW)

NOTES:

- 1)  shows nominal (rated) capacities and power input.
- 2) TC, PI and SHC must be calculated by interpolation using the figures in the above tables.
- 3) Capacities are based on the following conditions.
Corresponding refrigerant piping length :7.5m
Level difference :0.0m

3D138030A

Model : FDMFC85A - RZFC85

AFR	26.90
BPF	0.14

Cooling: 220 - 240V 50Hz

Indoor Temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	9.01	6.81	2.12	8.59	6.60	2.33	8.18	6.39	2.53	8.02	6.31	2.61	7.78	6.19	2.75	7.36	5.99	2.95
16	22	9.42	6.68	2.14	9.00	6.48	2.34	8.58	6.29	2.55	8.43	6.22	2.63	8.18	6.11	2.75	7.78	5.92	2.96
18	25	9.82	6.99	2.15	9.42	6.82	2.36	9.00	6.64	2.56	8.84	6.57	2.64	8.58	6.46	2.77	8.17	6.29	2.97
19	27	10.02	7.36	2.15	9.61	7.20	2.36	9.19	7.02	2.56	9.03	6.96	2.64	8.79	6.86	2.77	8.39	6.69	2.99
22	30	10.63	7.11	2.17	10.22	6.96	2.38	9.80	6.80	2.58	9.64	6.75	2.66	9.39	6.66	2.79	9.00	6.52	3.00
24	32	11.03	6.93	2.19	10.63	6.79	2.39	10.22	6.65	2.60	10.05	6.59	2.69	9.80	6.51	2.80	9.39	6.38	3.01

Symbols

AFR	Air Flow rate	(m3/min)
BPF	Bypass factor	
EWB	Entering Wet Bulb	(°C)
EDB	Entering Dry Bulb	(°C)
TC	Total Capacity	(kW)
SHC	Sensible Heat Capacity	(kW)
PI	Power Input	(kW)

NOTES:

- 1)  Shows nominal(rated) capacities and power input
- 2) TC, SHC and PI must be calculated by interpolation using the figures in the above table
- 3) Capacities are based on the following condition
Corresponding refrigerant piping length :7.5m
Level difference :0.0m

3D138277B

Model : FDMFC100A - RZFC100

Cooling: 220 - 240V

50Hz

AFR

35.68

BPF

0.16

Indoor Temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	10.81	8.39	2.69	10.31	8.14	2.96	9.82	7.90	3.21	9.63	7.81	3.32	9.33	7.67	3.49	8.83	7.43	3.74
16	22	11.31	8.23	2.72	10.80	8.00	2.97	10.30	7.77	3.24	10.12	7.69	3.35	9.82	7.56	3.49	9.33	7.35	3.76
18	25	11.79	8.65	2.73	11.31	8.45	3.00	10.80	8.24	3.25	10.61	8.16	3.35	10.30	8.02	3.52	9.81	7.82	3.77
19	27	12.02	9.14	2.73	11.54	8.94	3.00	11.03	8.74	3.25	10.84	8.66	3.35	10.55	8.55	3.52	10.07	8.36	3.80
22	30	12.75	8.83	2.76	12.27	8.66	3.02	11.77	8.48	3.28	11.57	8.41	3.38	11.27	8.30	3.55	10.80	8.14	3.81
24	32	13.24	8.62	2.78	12.75	8.46	3.04	12.27	8.30	3.31	12.06	8.23	3.41	11.77	8.13	3.56	11.27	7.98	3.83

Symbols

AFR

Air Flow rate

(m3/min)

BPF

Bypass factor

EWB

Entering Wet Bulb

(°C)

EDB

Entering Dry Bulb

(°C)

TC

Total Capacity

(kW)

SHC

Sensible Heat Capacity

(kW)

PI

Power Input

(kW)

NOTES:

1)

Shows nominal(rated) capacities and power input

2)

TC, SHC and PI must be calculated by interpolation using the figures in the above table

3)

Capacities are based on the following condition

Corresponding refrigerant piping length :7.5m

Level difference :0.0m

3D138278B

3D138278B

Model : FDMFC125A - RZFC125

</

3D138050B

Model : FDMFC140A - RZFC140

AFR	35.68
BPF	0.11

Cooling: 380 - 415V 50Hz

Indoor Temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	14.42	10.43	4.12	13.75	10.07	4.53	13.09	9.73	4.92	12.84	9.60	5.08	12.45	9.40	5.34	11.78	9.07	5.73
16	22	15.08	10.23	4.16	14.41	9.90	4.55	13.73	9.57	4.96	13.50	9.46	5.13	13.09	9.27	5.34	12.45	8.96	5.76
18	25	15.72	10.63	4.18	15.08	10.33	4.60	14.41	10.03	4.97	14.15	9.92	5.14	13.73	9.73	5.39	13.08	9.45	5.78
19	27	16.03	11.13	4.18	15.38	10.84	4.60	14.72	10.55	4.97	14.46	10.44	5.14	14.07	10.27	5.39	13.42	10.00	5.82
22	30	17.01	10.71	4.23	16.36	10.46	4.63	15.69	10.20	5.02	15.44	10.10	5.18	15.04	9.95	5.44	14.41	9.72	5.84
24	32	17.65	10.42	4.26	17.01	10.19	4.65	16.36	9.96	5.07	16.08	9.86	5.23	15.69	9.73	5.45	15.04	9.50	5.86

Symbols

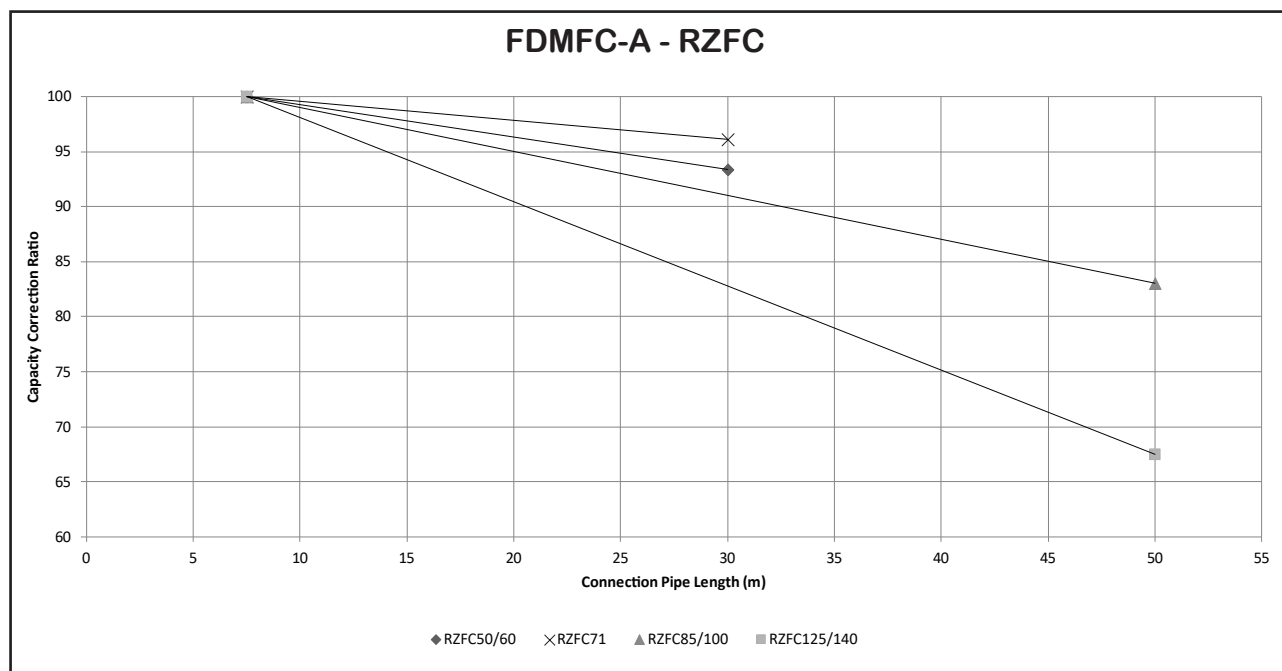
AFR	Air Flow rate	(m3/min)
BPF	Bypass factor	
EWB	Entering Wet Bulb	(°C)
EDB	Entering Dry Bulb	(°C)
TC	Total Capacity	(kW)
SHC	Sensible Heat Capacity	(kW)
PI	Power Input	(kW)

NOTE:

- 1)  Shows nominal(rated) capacities and power input
- 2) TC, SHC and PI must be calculated by interpolation using the figures in the above table
- 3) Capacities are based on the following condition
Corresponding refrigerant piping length :7.5m
Level difference :0.0m

3D138048B

Capacity correction factor by the length of refrigerant piping.



Nomenclature	Chargeless Pipe Length		Maximum Pipe Length	
	10m	15m	30m	50m
RZFC50/60	99.30%	-	93.40%	-
RZFC71	99.60%	-	96.10%	-
RZFC85/100	-	97.00%	-	83.03%
RZFC125/140	-	94.26%	-	67.47%

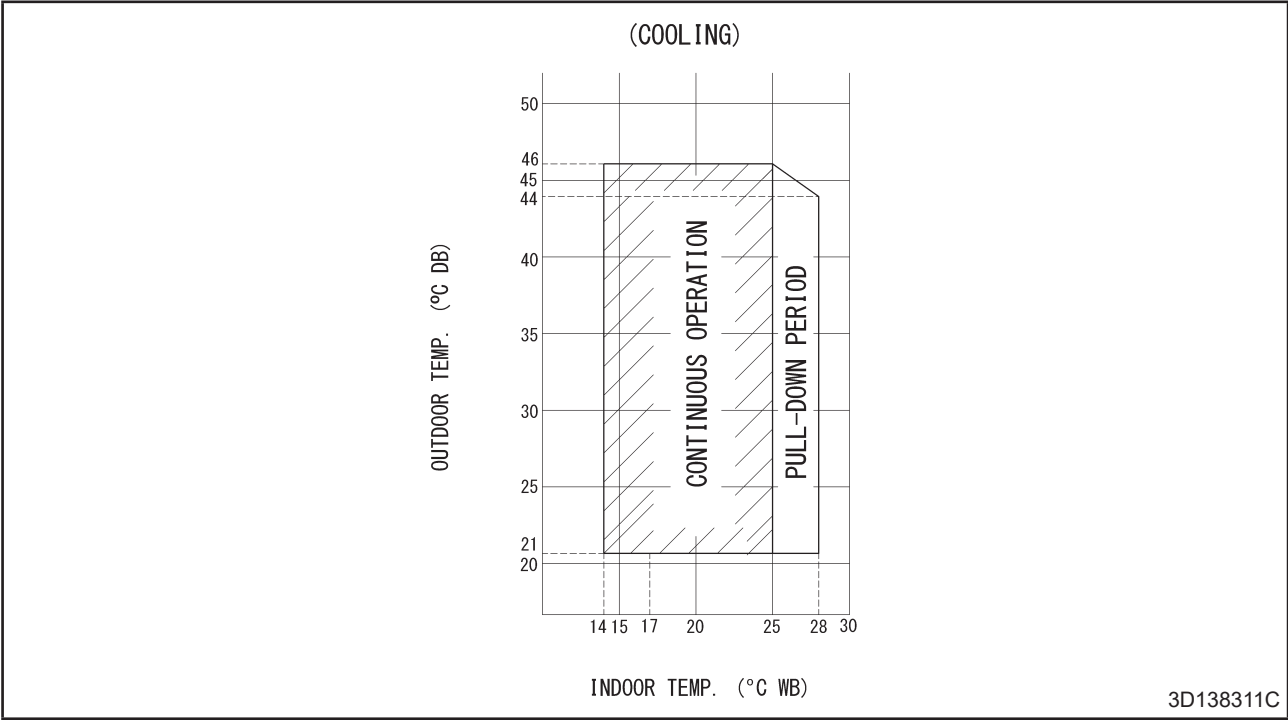
Notes:

- 1.----- represents the correction ratio for cooling capacity.
- 2.The correction ratio remains the same whether the outdoor unit is to be installed above or below the indoor unit.
- 3.Calculation method for cooling capacity
Capacity = cooling capacity obtained from capacity table x capacity correction ratio.
- 4.The actual unit piping length shall not exceed the maximum piping length shown on the table above.

3D137578E

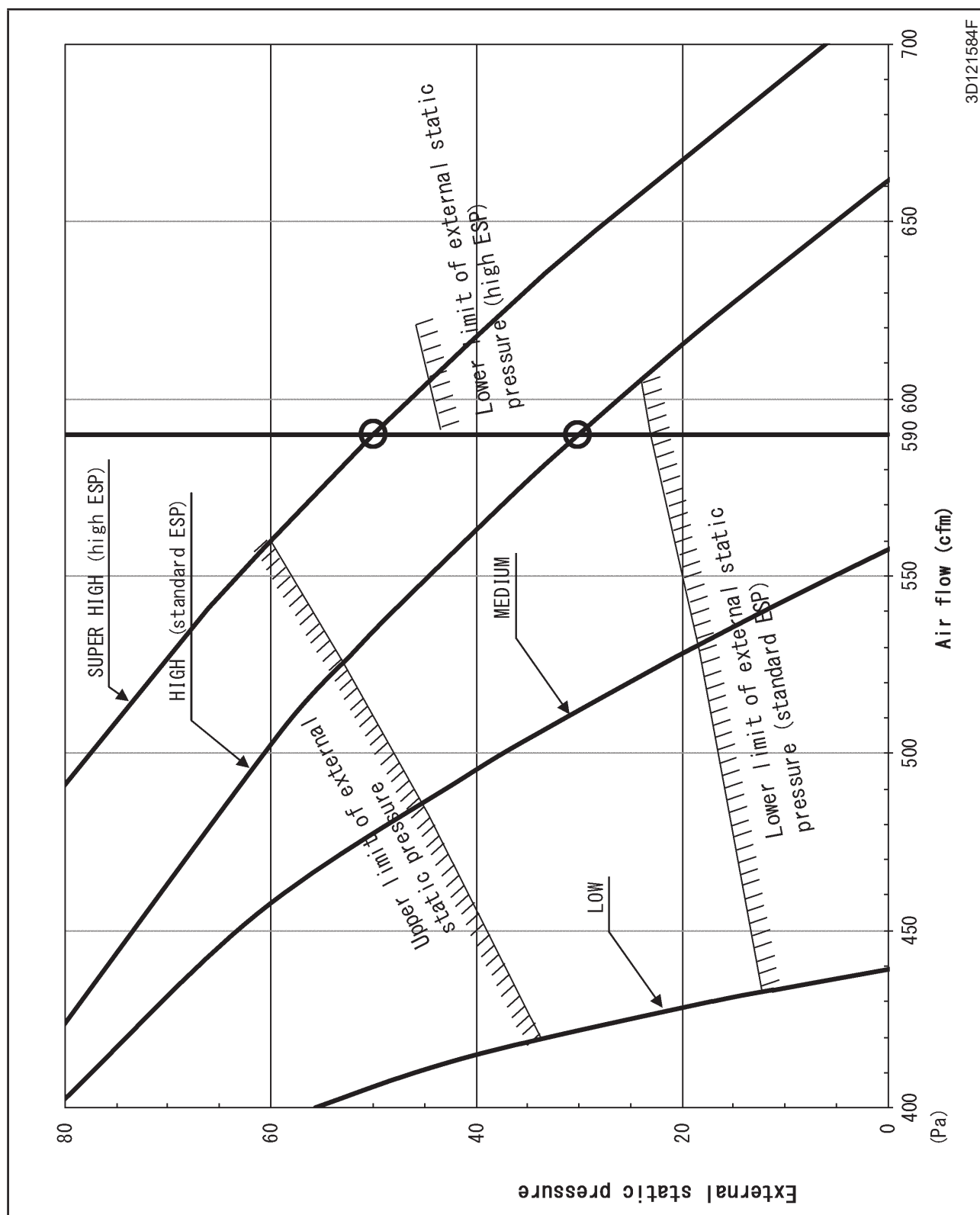
Operation Limit

Model : RZFC



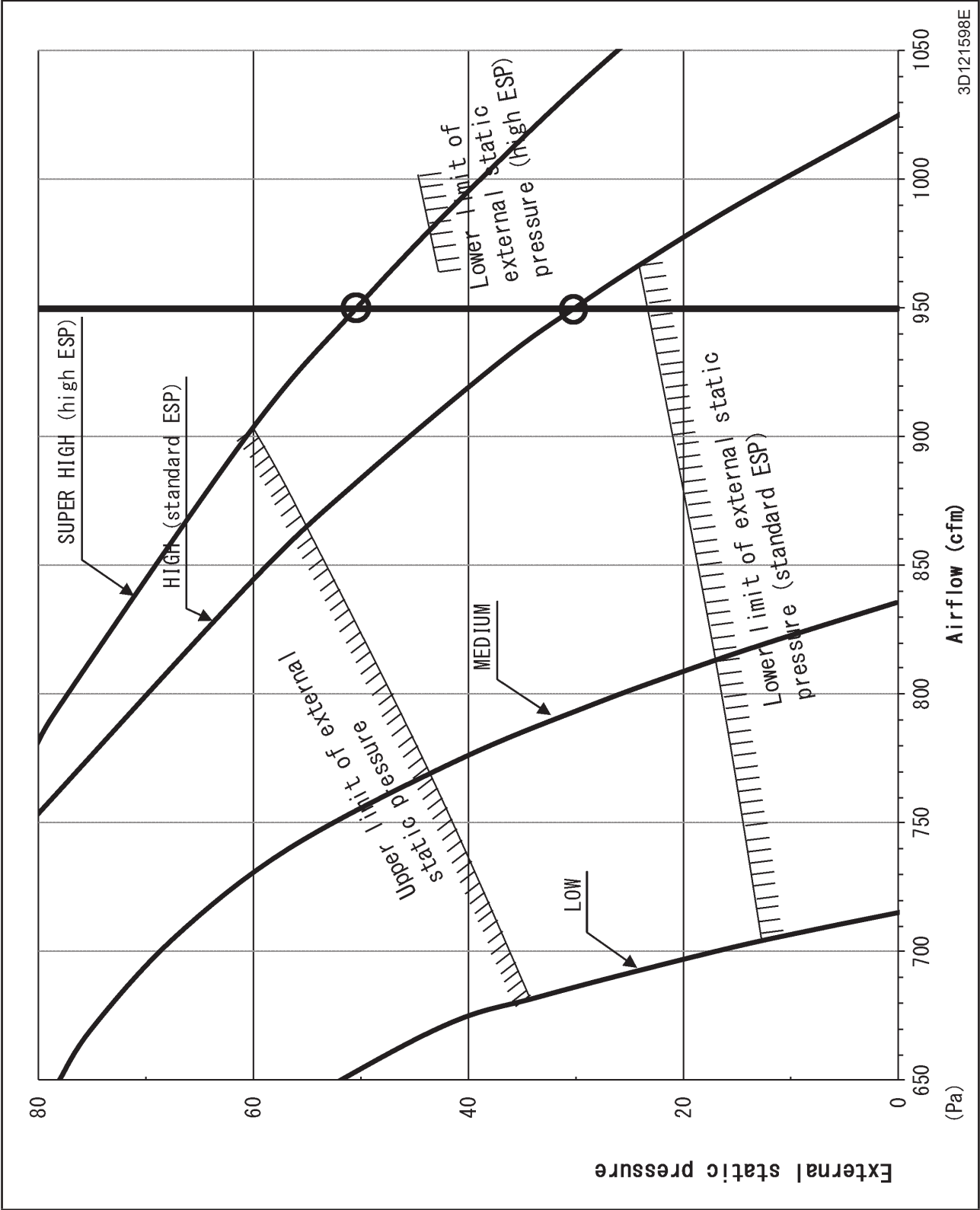
Fan Performance

Model : FDMFC50/60A



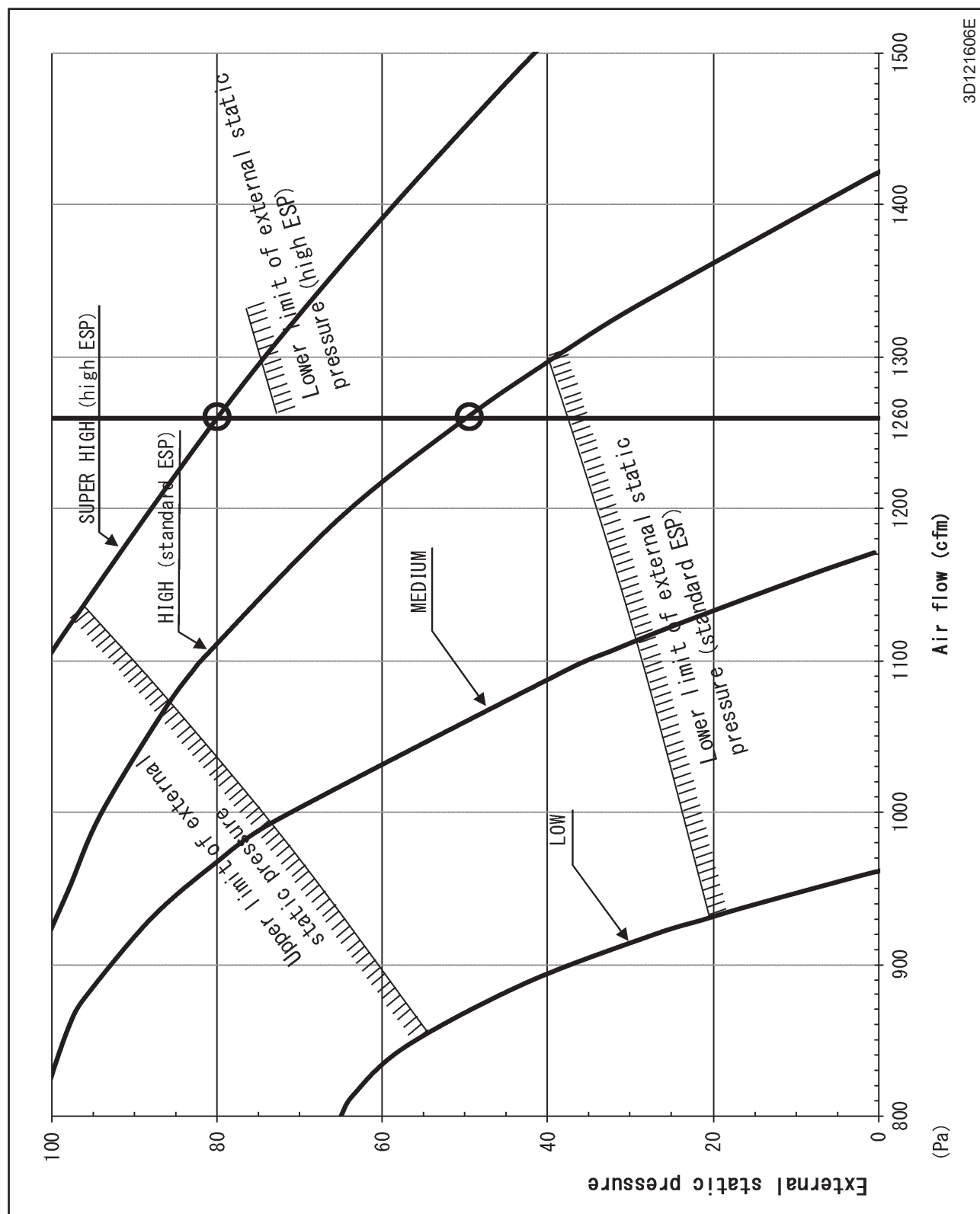
3D121584F

Model : FDMFC71/85A

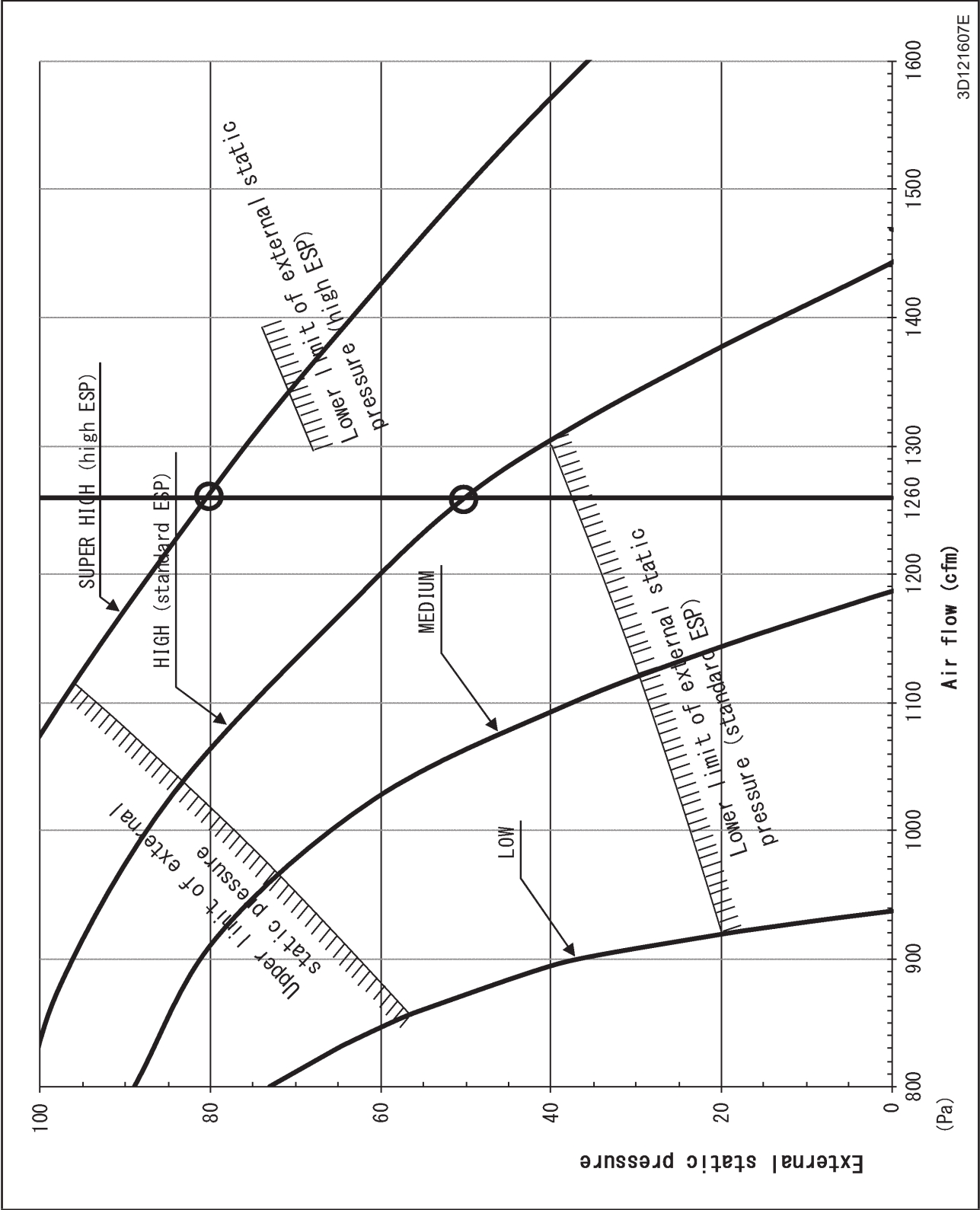


3D121598E

Model : FDMFC100/125A



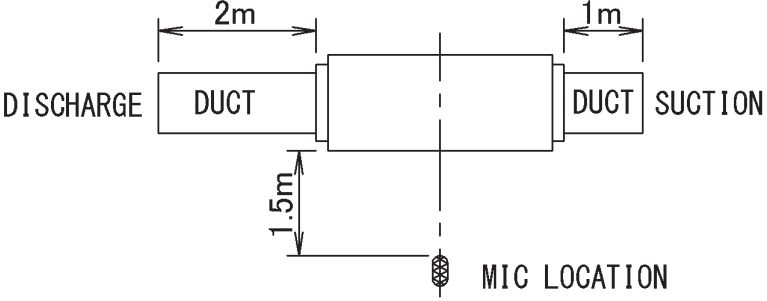
Model : FDMFC140A



3D121607E

Sound Level

Measuring Location

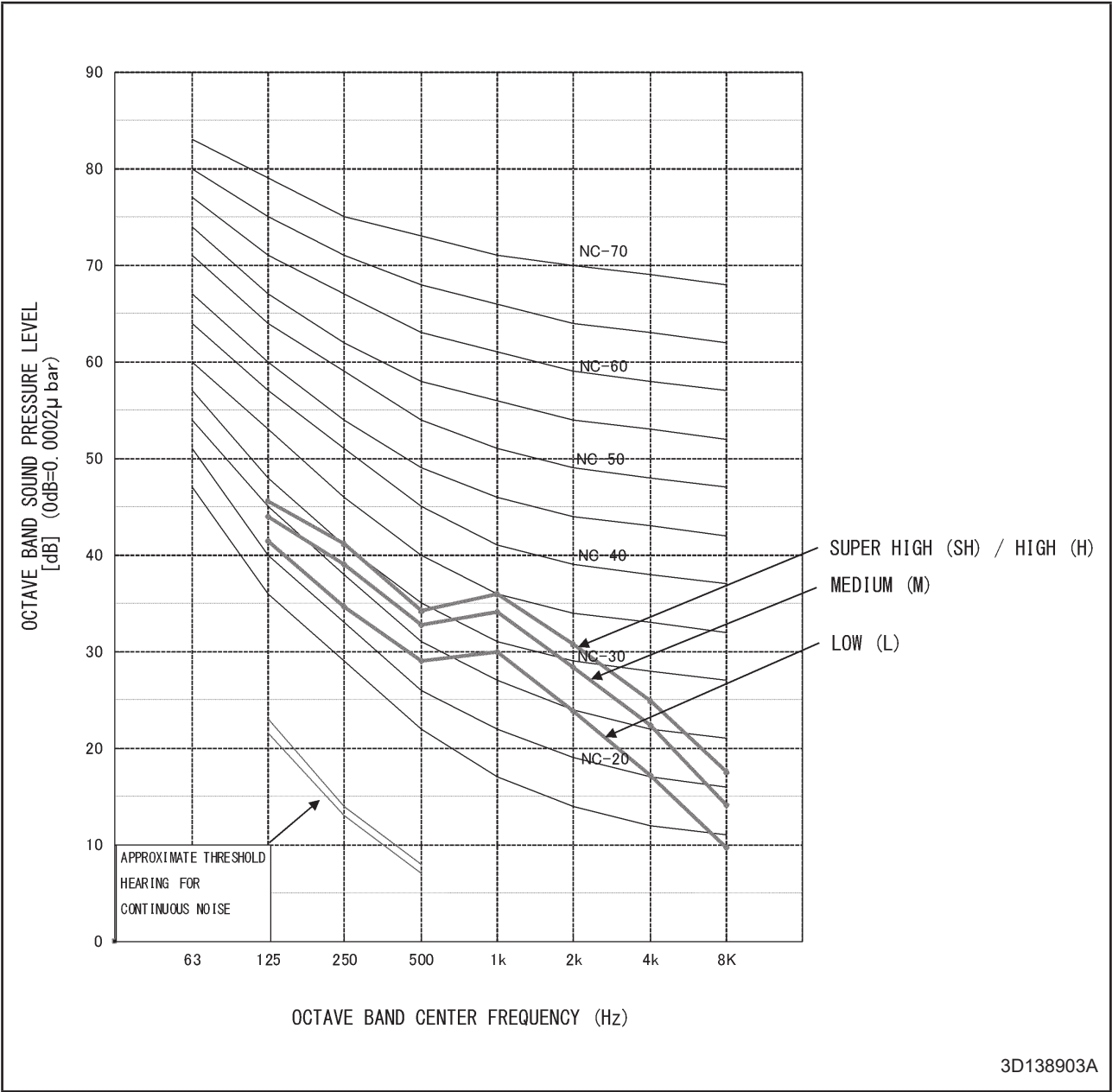
Model	Measuring Location
FDMFC50A FDMFC60A FDMFC71A FDMFC85A FDMFC100A FDMFC125A FDMFC140A	 The diagram illustrates the setup for measuring the sound level of a fan. A central rectangular unit is shown with a vertical dashed line through its center. To the left of the unit is a rectangular duct labeled 'DUCT', with the word 'DISCHARGE' to its left. A dimension line above the duct indicates a length of 2m. To the right of the unit is another rectangular duct labeled 'DUCT', with the word 'SUCTION' to its right. A dimension line above this duct indicates a length of 1m. Below the unit, a microphone symbol is shown with a vertical dashed line extending from the center of the unit to it. A dimension line to the left of the microphone indicates a distance of 1.5m. The text 'MIC LOCATION' is placed to the right of the microphone symbol.

Notes:
1. Operation sound is measured in an anechoic chamber.

Sound Pressure Level

Model	Speed	1/1 Octave A-weighted Sound Pressure Level (dB, ref 20μPa)							Overall (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
FDMFC50/60A	Super High	46	41	34	36	31	25	18	40	35
	High	46	41	34	36	31	25	18	40	35
	Med	44	39	33	34	28	22	14	38	33
	Low	41	35	29	30	24	17	10	34	29

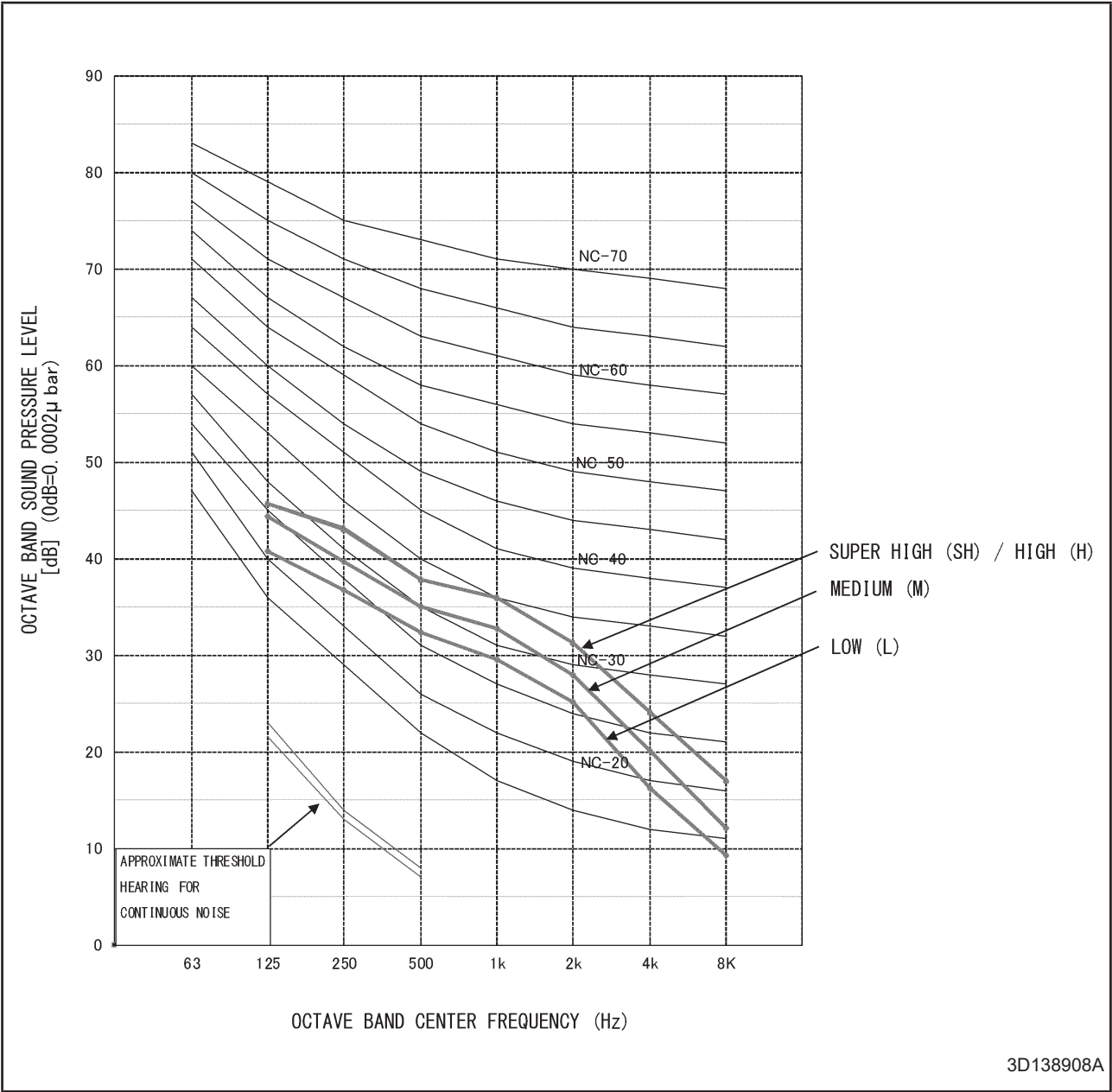
NC Curve



Sound Pressure Level

Model	Speed	1/1 Octave A-weighted Sound Pressure Level (dB, ref 20μPa)							Overall (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
FDMFC71A	Super High	46	43	38	36	31	24	17	41	35
	High	46	43	38	36	31	24	17	41	35
	Med	44	40	35	33	28	20	12	38	32
	Low	41	37	32	30	25	16	9	35	29

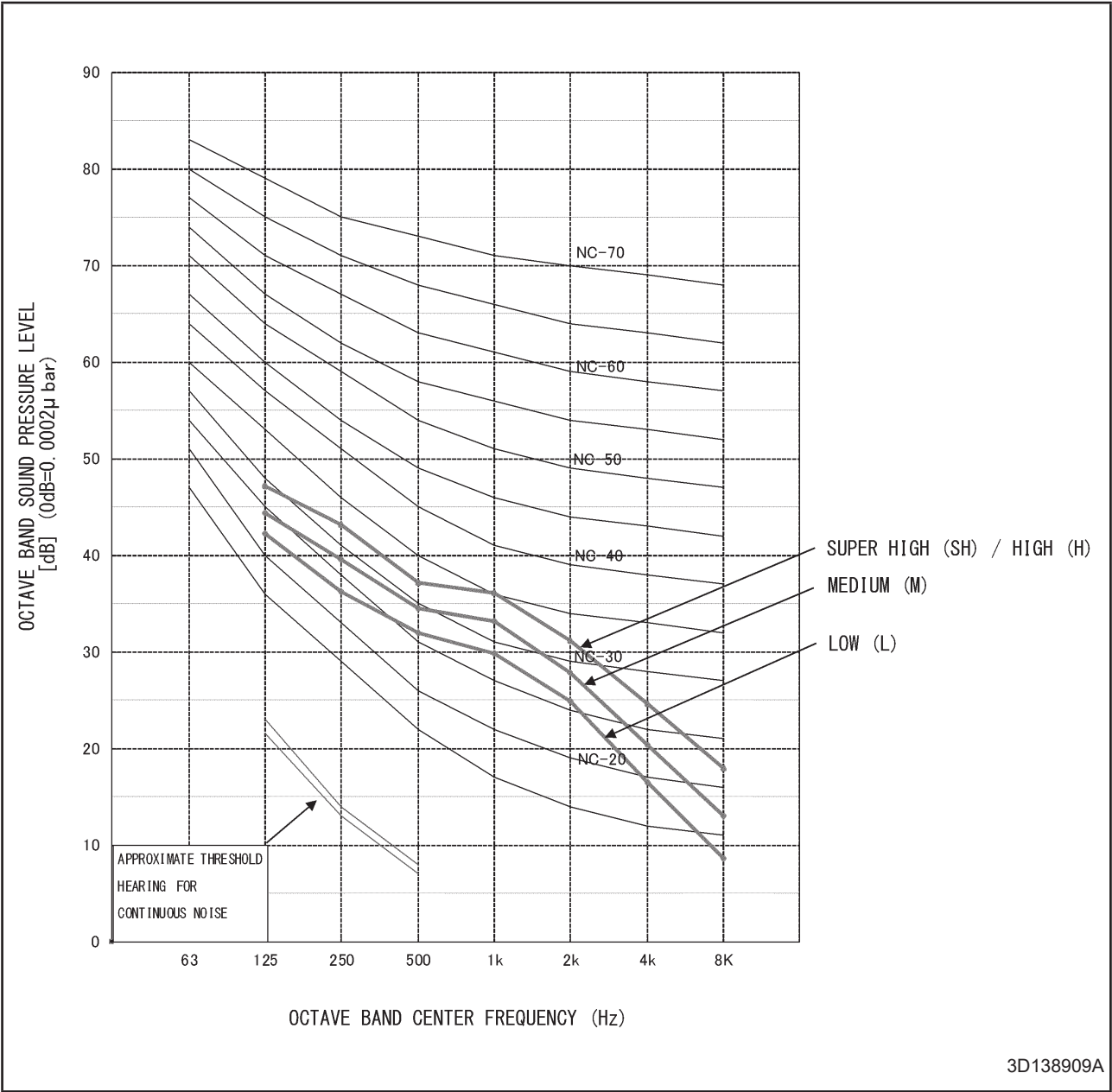
NC Curve



Sound Pressure Level

Model	Speed	1/1 Octave A-weighted Sound Pressure Level (dB, ref 20μPa)							Overall (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
FDMFC85A	Super High	47	43	37	36	31	25	18	41	35
	High	47	43	37	36	31	25	18	41	35
	Med	44	40	35	33	28	20	13	38	32
	Low	42	36	32	30	25	17	9	35	29

NC Curve

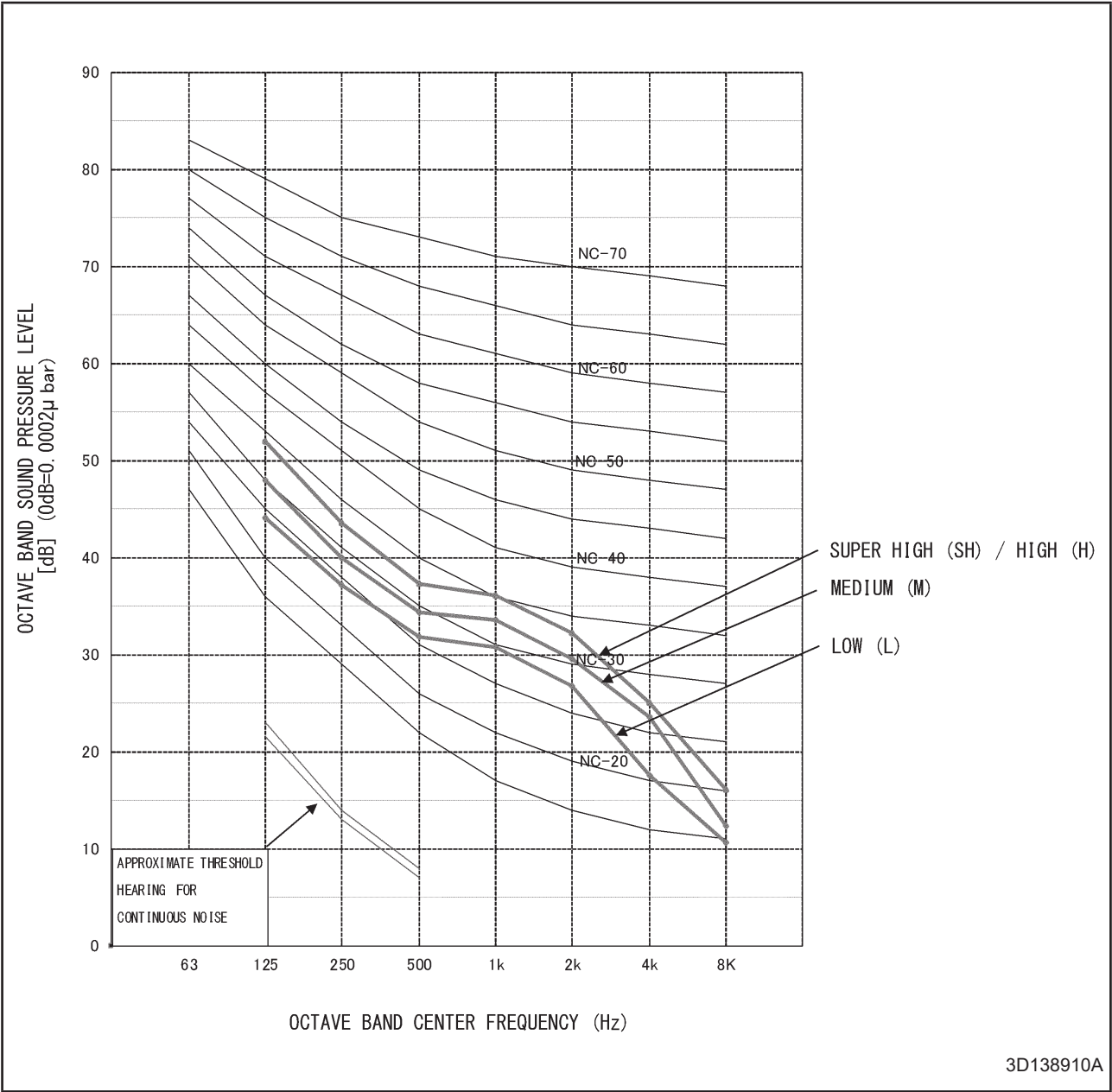


3D138909A

Sound Pressure Level

Model	Speed	1/1 Octave A-weighted Sound Pressure Level (dB, ref 20μPa)							Overall (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
FDMFC100A	Super High	52	44	37	36	32	25	16	42	35
	High	52	44	37	36	32	25	16	42	35
	Med	48	40	34	34	30	24	12	39	33
	Low	44	37	32	31	27	18	11	36	30

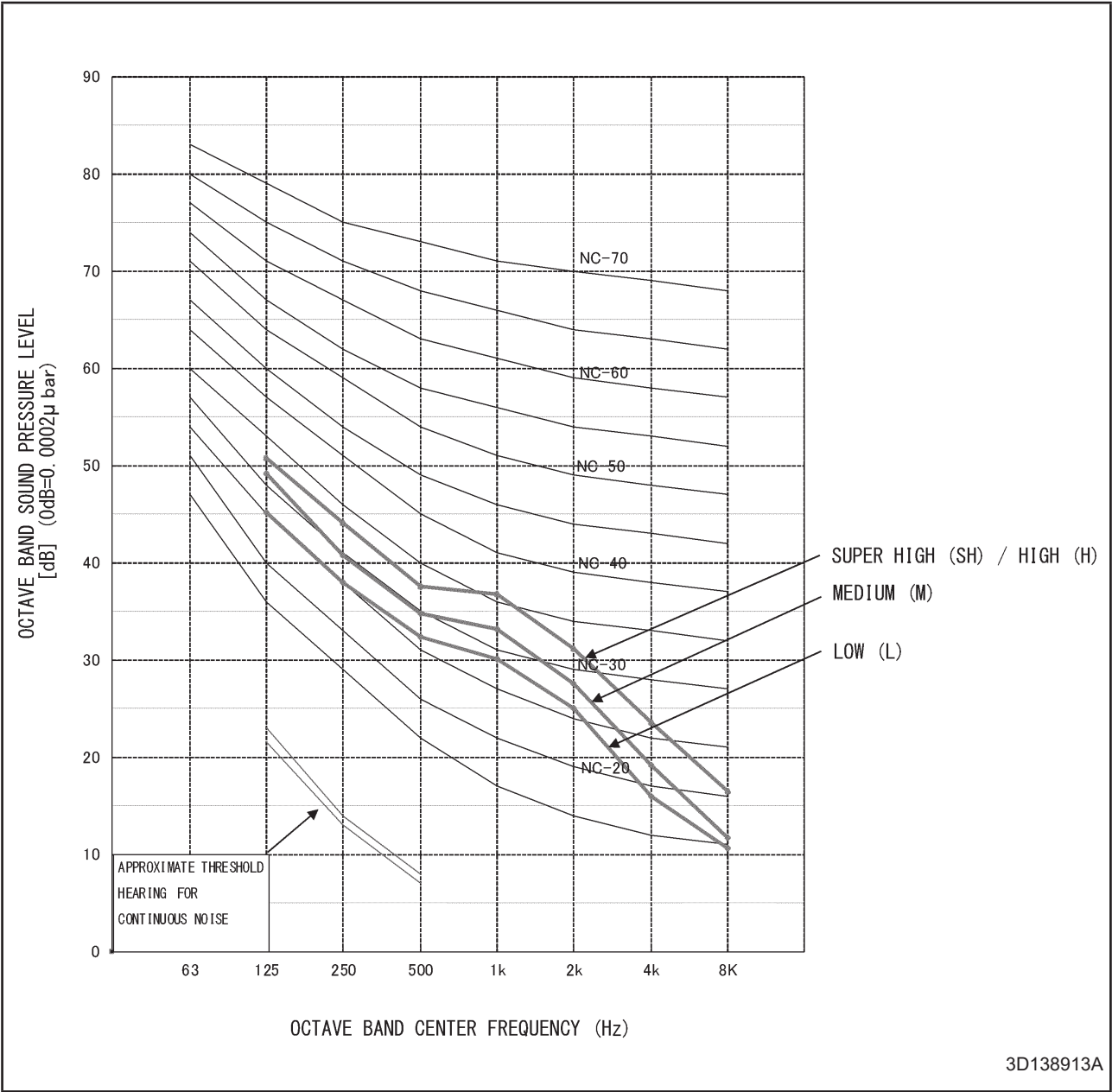
NC Curve



Sound Pressure Level

Model	Speed	1/1 Octave A-weighted Sound Pressure Level (dB, ref 20μPa)							Overall (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
FDMFC125A	Super High	51	44	38	37	31	24	17	42	36
	High	51	44	38	37	31	24	17	42	36
	Med	49	41	35	33	28	19	12	39	32
	Low	45	38	32	30	25	16	11	36	29

NC Curve

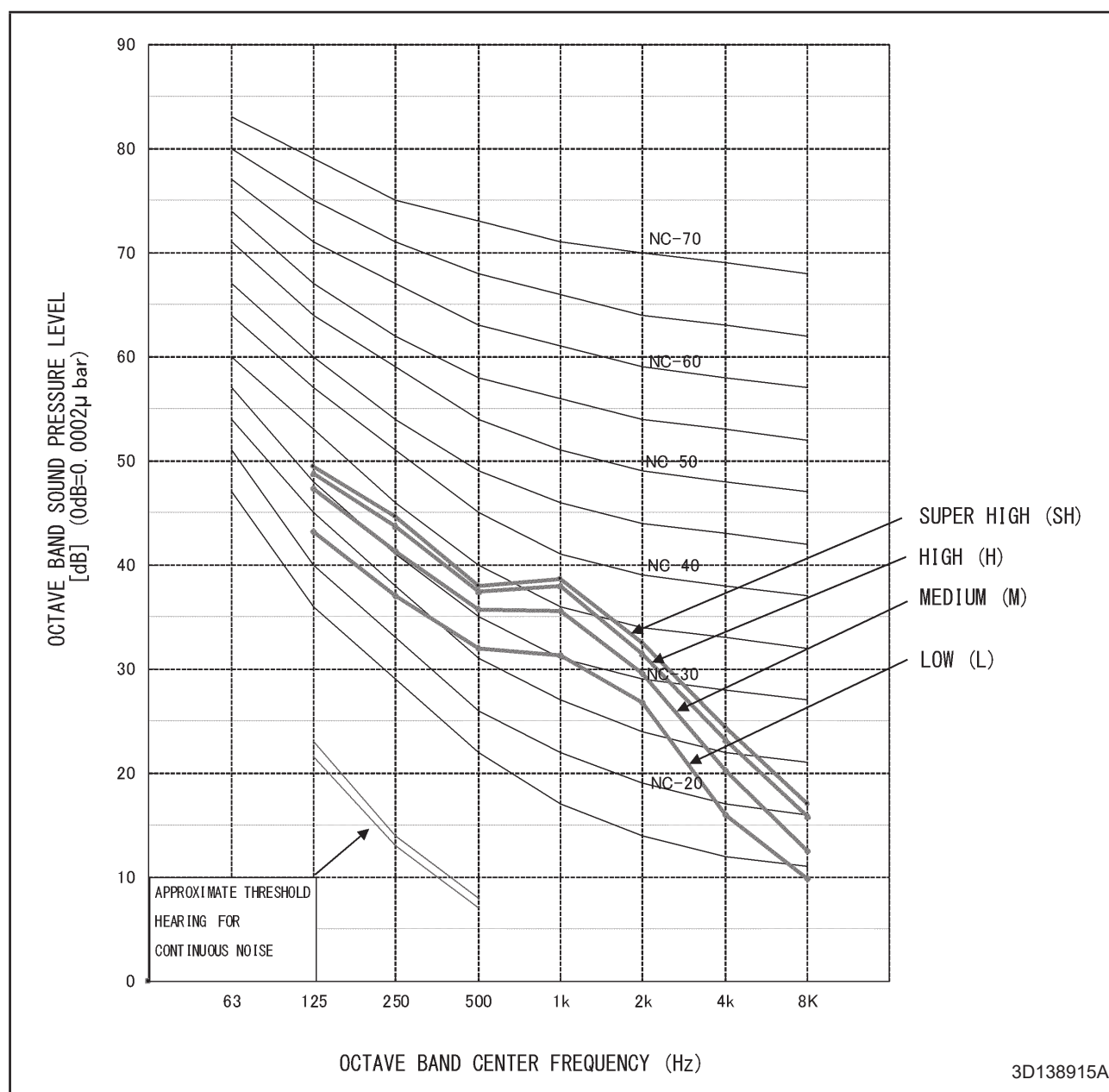


3D138913A

Sound Pressure Level

Model	Speed	1/1 Octave A-weighted Sound Pressure Level (dB, ref 20μPa)							Overall (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
FDMFC140A	Super High	49	45	38	39	33	24	17	43	38
	High	49	44	37	38	31	23	16	42	37
	Med	47	41	36	36	30	20	13	40	35
	Low	43	37	32	31	27	16	10	36	30

NC Curve



3D138915A

Electric Characteristic

Unit Combination		Power Supply					COMP		OFM		IFM	
Indoor Unit	Outdoor Unit	Hz	Voltage	Voltage Range	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
FDMFC50A	RZFC50	50	220-240	Max. 50Hz 264V Min. 50Hz 198V	12.2	16	80	6.95	0.068	0.92	0.097	0.64
FDMFC60A	RZFC60	50	220-240	Max. 50Hz 264V Min. 50Hz 198V	12.2	16	92	8.54	0.068	0.92	0.097	0.64
FDMFC71A	RZFC71	50	220-240	Max. 50Hz 264V Min. 50Hz 198V	16.0	20	78	7.37	0.068	0.92	0.150	0.91
FDMFC85A	RZFC85	50	220-240	Max. 50Hz 264V Min. 50Hz 198V	21.0	25	82	10.2	0.055	1.26	0.150	0.91
FDMFC100A	RZFC100	50	220-240	Max. 50Hz 264V Min. 50Hz 198V	21.3	25	98	13.1	0.055	1.26	0.187	1.20
FDMFC125A	RZFC125	50	380-415	Max. 50Hz 457V Min. 50Hz 342V	13.8	16	85	6.52	0.125	0.93	0.187	1.20
FDMFC140A	RZFC140	50	380-415	Max. 50Hz 457V Min. 50Hz 342V	13.8	16	96	7.52	0.125	0.93	0.240	1.24

Symbols:

MCA : Min. circuit amps (A)
 MFA : Max. fuse amps (A)
 COMP : Compressor
 RHz : Rated Operating Frequency (Hz)
 RLA : Rated loads amps (A)
 OFM : Outdoor fan motor
 IFM : Indoor fan motor
 kW : Fan motor rated output (kW)
 FLA : Full load amps (A)

Notes:

1. RLA is based on the following conditions.
Indoor temp. 27°CDB / 19°CWB
Outdoor temp. 35°CDB
2. Select the wire size according to the MCA.
3. Maximum allowable voltage that is unbalance between phases is 2%.
4. Use circuit breaker instead of fuse

3D138365A

Accessories List

Model Number Optional Accessories	FDMFC50/60A	FDMFC71/85A	FDMFC100/125/140A
Wireless Remote Controller (DGS01)	R04089038816A		
Wired Remote Controller (SHIRO) BRC51D62	R50089045240A		
NS Splitter	R50044157819		
Wireless LAN Connecting Adaptor	AWE56A01		
Drain Pump	BDU511A160V1		
Saranet Filters	BAF505A60	BAF506A85	BAF507A160



Warning



- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

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DAIKIN MALAYSIA SALES & SERVICE SDN. BHD.

198301014326 (109719-M)

Call Centre: 1300-88-DAIKIN(324546)

Email: sales_enquiry@daikin.com.my, customer_service@daikin.com.my

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