#### 1 Features

- Outdoor units for pair application
- Daikin outdoor units are neat and sturdy and can be mounted easily on a roof or terrace or simply placed against an outside wall.
- Outdoor units are fitted with a swing compressor, renowned for its low noise and high energy efficiency



# 2 Specifications

2-1 NOMI NOMINAL II	NAL CAPAC NPUT	ITY AND		RYN50E3V1B	RYN60E3V1B
For combination indoor units + outdoor units	Indoor Units			FTYN50EV1B	FTYN60EV1B
Cooling capacity	Standard	kW		5.0	6.0
Heating capacity	Standard	kW		5.8	7.0
Nominal input	Cooling	Standard	kW	1.55	1.99
	Heating	Standard	kW	1.60	2.04
For	EER	Nominal	•	3.23	3.02
combination	COP	Nominal		3.63	3.43
indoor units + outdoor units	Energy	Cooling		A	В
	Labeling Directive	Heating		А	В
	Annual energy consumption kWh			775	995
	Indoor Units			FTYN50FV1B	FTYN60FV1B
Cooling capacity	Standard	kW		5.0	6.0
Heating capacity	Standard	kW		5.8	7.0
Nominal input	Cooling	Standard	kW	1.55	1.99
	Heating	Standard	kW	1.60	2.04
For	EER	Nominal		3.23	3.02
combination indoor units +	COP	Nominal		3.63	3.43
	Energy	Cooling		А	В
	Labeling Directive	Heating		A	В
	Annual energy	y consumption	kWh	775	995

2-2 TECI	HNICAL SPECI	FICATION	١S	RYN50E3V1B	RYN60E3V1B						
Casing	Colour			lvory	White						
Dimensions	Unit	Height	mm	735	735						
		Width	mm	825	825						
		Depth	mm	300	300						
	Packing	Height	mm	797	797						
		Width	mm	960	960						
		Depth	mm	390	390						
Weight	Unit		kg	48	48						
	Packed Unit		kg	53	53						
Heat	Dimensions	Length mm		845	845						
Exchanger		Nr of Rows		2	2						
		Fin Pitch	mm	1.80	1.80						
		Nr of Stag	es	32	32						
	Tube type			Ні-У	xa(8)						
	Fin	Туре		Waffle fin							
		Treatment		Anti-corrosion treatment (PE)							
Fan	Туре	•		Prop	peller						
	Quantity			1	1						
	Air Flow Rate	Cooling	m³/min	48.9	50.9						
	(nominal at 230V)	Heating	m³/min	45.0	46.3						
	Motor	Quantity	•	1	1						
		Model		KFD-38	0-50-8A						
Motor	Speed	Cooling	rpm	780	810						
	(nominal)	Heating	rpm	720	740						
Fan	Motor	Output	W	53	53						

# 2 Specifications

2-2 TECHI	VICAL SPEC	FICATION	IS	RYN50E3V1B	RYN60E3V1B							
Compressor	Quantity			1	1							
	Motor	Model		2YC36BXD#A								
		Туре		Hermetically sealed	swing compressor							
		Motor Output	W	1100	1100							
Operation	Cooling	Min	°CDB	-10.0	-10.0							
Range		Max	°CDB	46.0	46.0							
	Heating	Min	°CWB	-15	-15							
		Max	°CWB	18	18							
Sound Level (nominal)	Cooling	Sound Power	dBA	61.0	63.0							
		Sound Pressure	dBA	47.0	49.0							
	Heating	Sound Pressure	dBA	48.0	49.0							
Refrigerant	Туре			R-410A								
-	Charge		kg	1.5	1.5							
Refrigerant Oil	Туре			FVC	50K							
	Charged Volum	ne	I	0.65	065							
Piping connections	Liquid (OD)	Diameter (OD)	mm	6.35	6.35							
	Gas	Gas Diameter (OD)		12.7	12.7							
	Drain	ain Diameter (OD)		18	18							
	Piping Length	Maximum	m	30	30							
	Additional Refr Charge	gerant	kg/m	0.02/>	-10m							
	Max. internunit difference	level	m	20.0	20.0							
	Heat Insulation			Both liquid ar	nd gas pipes							
Standard	Item			Drain	plug							
Accessories	Quantity			1	1							
	Item			Installation	n manual							
	Quantity			1	1							
Notes				Nominal cooling capacities are based on : indoor temperature : 270CDB, 190CWB, outdoor temperature : 350CDB, equivalent refrigerant piping : 7.5m, level difference : 0m.								
				Nominal heating capacities are based on : indoor temperature : 200CDB, outdoor temperature : 70CDB, 60CWB, equivalent refrigerant piping : 7.5m, level difference : 0m								
				Sound levels are measured in an anechoic room								
				Sound pressure level is a relative value, depending on the please refer to sound level								
				The sound power level is an absolute value indica								

2-3 ELECT	<b>FRICAL SPEC</b>	IFICATIO	NS	RYN50E3V1B	RYN60E3V1B							
Power Supply	Name			V1								
	Phase			1	1							
	Frequency		Hz	50	50							
	Voltage		V	220-240								
	Voltage range	Minimum	V	-1(	0%							
		Maximum	V	+1	0%							
Current	Nominal running current	Cooling (A)	A	6.75	8.62							
	(RLA)	Heating (A)	A	6.94	8.80							
	Starting current heating)	(cooling/	A	7.1	9.0							
	Z-max	List		No requi	irements							

# 2 Specifications

2-3 ELECT	<b>TRICAL SPEC</b>	IFICATIONS	RYN50E3V1B	RYN60E3V1B						
Wiring	For Power	Quantity	3	3						
connections	Supply									
	For connection	Quantity	4	4						
	with indoor	Remark	Including earth wiring							
Power Supply In	itake		Outdoor unit only							

### 3 Features



# 4 - 1 Cooling/Heating capacity tables

o olin -								01- 22	AFR 14.7											
ooling									20-240\						BF 0.28					
Indoor		20			25				tdoor temp	erature (°CI				25			40			
EWB EDB (°C) (°C)	TC	20 SHC	PI	TC	25 SHC	PI	TC	30 SHC	PI	TC	32 SHC	PI	TC	35 SHC	PI	TC	40 SHC	PI		
14.0 20	5.12	3.61	1.19	4.89	3.49	1.30	4.66	3.37	1.42	4.56	3.32	1.46	4.42	3.25	1.53	4.19	3.13			
16.0 22	5.35	3.55	1.20	5.12	3.43	1.31	4.89	3.32	1.43	4.79	3.27	1.47	4.65	3.21	1.54	4.42	3.10			
18.0 25	5.58	3.69	1.20	5.35	3.58	1.32	5.12	3.47	1.43	5.02	3.43	1.48	4.88	3.37	1.55	4.65	3.26			
19.0 27	5.70	3.86	1.21	5.47	3.75	1.32	5.23	3.65	1.44	5.14	3.61	1.48	5.00	3.55	1.55		3.45	1.66		
22.0 30	6.04	3.71	1.22	5.81	3.62	1.33	5.58	3.52		5.49	3.49	1.49	5.35	3.43	1.56	5.11	3.35			
24.0 32	6.27	3.60	1.22	6.04	3.52	1.34	5.81	3.43	1.45	5.72	3.40	1.50	5.58	3.35	1.57	5.34	3.27	1.68		
eating	1	50	)Hz 220			. (00	AFR		1	6.1	]									
EDB		10		5		0		6		10										
(°C)	TC	Pl 1.35	TC 4.56	Pl 1.42	TC	PI	1C	PI	10	PI										
<u>15.0</u> 20.0	3.90	1.35	4.36	1.42	5.21 5.01	1. <b>4</b> 8 1.52	6.00 <b>5.80</b>	1.56	6.52 6.32	1.62 1.65										
22.0	3.62	1.40	4.28	1.47	4.93	1.54	5.72	1.61	6.24	1.67										
24.0	3.54	1.42	4.20	1.48	4.85	1.55	5.64	1.63	6.16	1.68										
25.0	3.50	1.43	4.16	1.49	4.81	1.56	5.60	1.64	6.12	1.69										
27.0	3.42	1.44	4.08	1.51	4.73	1.57	5.52	1.65	6.04	1.70										
DB: Enterin C: Total c	g wet b g dry bu apacity le heatir input	ulb temp	).			(k (k	°C) <w) <w) <w)< th=""><th>2 3 4 5 6</th><th>3 1 5</th><th>in the calcu Abou them Capa Corre Leve</th><th>I and SH above lation.) ut SHC v with ar cities ar espondir I differe</th><th>HC must tables. ( which ar round va re based ng refrig ence:</th><th>be calc Figures e not m alues in on follo erant pi</th><th>out of th</th><th>y interp ne table d on the oportion ondition gth:</th><th>olation ( s should e table, p n. s:</th><th>using tl d not b please</th><th>ne figure e used fi calculate 7.5 m 0 m</th></w)<></w) </w) 	2 3 4 5 6	3 1 5	in the calcu Abou them Capa Corre Leve	I and SH above lation.) ut SHC v with ar cities ar espondir I differe	HC must tables. ( which ar round va re based ng refrig ence:	be calc Figures e not m alues in on follo erant pi	out of th	y interp ne table d on the oportion ondition gth:	olation ( s should e table, p n. s:	using tl d not b please	ne figure e used fi calculate 7.5 m 0 m		

## 4 - 1 Cooling/Heating capacity tables

ooling										20-240\	,					AFR BF			4.7
												RF		0.28					
EWB	or EDB		20			25			Out 30	tdoor tempe	erature (°CE	DB) 32			35			40	
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	5.12	3.61	1.19	4.89	3.49	1.30	4.66	3.37	1.42	4.56	3.32	1.46	4.42	3.25	1.53	4.19	3.13	1.6
16.0	22	5.35	3.55	1.20	5.12	3.43	1.31	4.89	3.32	1.43	4.79	3.27	1.47	4.65	3.21	1.54	4.42	3.10	1.6
18.0	25	5.58	3.69	1.20	5.35	3.58	1.32	5.12	3.47	1.43	5.02	3.43	1.48	4.88	3.37	1.55	4.65	3.26	1.6
19.0	27	5.70	3.86	1.21	5.47	3.75	1.32	5.23	3.65	1.44	5.14	3.61	1.48	5.00	3.55	1.55		3.45	1.6
22.0	30	6.04	3.71	1.22	5.81	3.62	1.33	5.58	3.52	1.45	5.49	3.49	1.49	5.35	3.43	1.56	5.11	3.35	1.6
24.0	32	6.27	3.60	1.22	6.04	3.52	1.34	5.81	3.43	1.45	5.72	3.40	1.50	5.58	3.35	1.57	5.34	3.27	1.6
eating	·		50	)Hz 22(		tdoor temp	erature (°C)	AFR WB)		1	6.1	]							
ED	B	-1	-	-	5		0		6		0								
(°C)		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI								
15.		3.90	1.35	4.56	1.42	5.21	1.48	6.00	1.56	6.52	1.62								
20. 22.		3.70 3.62	1.39 1.40	4.36 4.28	1. <b>46</b> 1. <b>4</b> 7	5.01 4.93	1.52 1.54	<b>5.80</b> 5.72	1.60	6.32 6.24	1.65 1.67								
24.		3.54	1.40	4.20	1.47	4.95	1.54	5.64	1.63	6.16	1.67								
25.		3.50	1.43	4.16	1.49	4.81	1.56	5.60	1.64	6.12	1.69								
27.		3.42	1.44	4.08	1.51	4.73	1.57	5.52	1.65	6.04	1.70								
											0519234	4							
		MBOLS							-		NOT	TEC							
FR:	Air flov		,				(,	m <sup>3</sup> /min)	1		_		10 ara n	ot capa	cities wh	ich inclu	ido a de	duction	for
-	Bypass	factor							I			or fan m						auction	101
		g wet b g dry bi						°C) °C)	2				shows	nomina	(rated)	capacitie	es and p	ower ir	ıput.
C:	Total c	apacity					()	<Ŵ)	3	;					ulated by out of th				
	Power	e heatin input	g capac	ity				<w) <w)< td=""><td></td><td></td><td></td><td>lation.)</td><td>tables.</td><td>inguics</td><td>outoru</td><td></td><td>5 5110010</td><td></td><td>usc</td></w)<></w) 				lation.)	tables.	inguics	outoru		5 5110010		usc
							,	,	4	Ļ	them	with ar	ound va	alues in	entioneo direct pr	oportior	י.	olease ca	alcul
									5	)	Corre	cities an espondir I differe	ng refrig	l on follo Jerant pi	owing co iping len	ondition: gth:	S:		7.5 m ) m
									6	5	Air flo	ow rate	(AFR) a	nd Bypa	iss factoi	r (BF) are	e tabura	ited abc	ve.

# 4 - 1 Cooling/Heating capacity tables

#### FTYN60FV1B+RYN60E3V1B

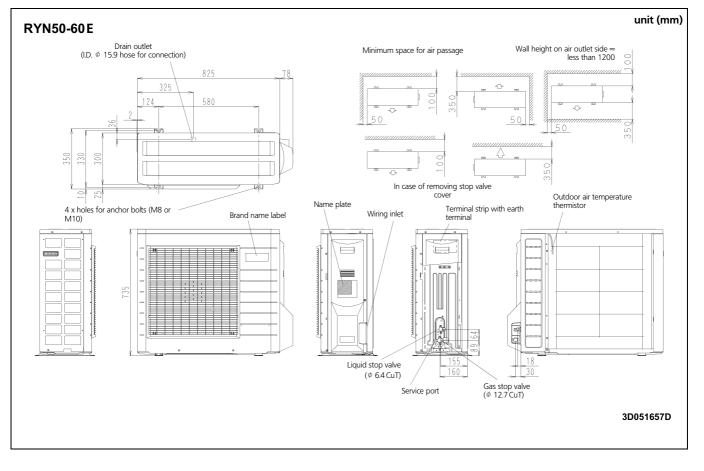
oling	9							5	50Hz 22							BF			0.29
Indo										tdoor temp	erature (°CE				~-				
EWB (°C)	EDB (°C)	TC	20 SHC	PI	TC	25 SHC	PI	TC	30 SHC	PI	TC	32 SHC	PI	TC	35 SHC	PI	TC	4( 	
															-				
4.0 6.0	20 22	5.60 6.42	3.94 4.17	1.49 1.54	5.60 6.14	3.94 4.02	1.66 1.68	5.59 5.86	3.94 3.88	1.82 1.83	5.48 5.75	3.88 3.82	1.88 1.89	5.31 5.59	3.79 3.74	1.97 1.98	5.03		
8.0	25	6.70	4.31	1.54	6.42	4.02	1.69	6.14	4.04	1.84	6.03	3.99	1.90	5.86	3.91	1.99	5.58		
9.0	27	6.84	4.49	1.55	6.56	4.36	1.70	6.28	4.23	1.84	6.17	4.18	1.90	6.00		1.99	5.72		
22.0	30	7.25	4.31	1.56	6.97	4.19	1.71	6.69	4.08	1.86	6.58	4.04	1.91	6.41	3.97	2.00	6.14		
24.0	32	7.53	4.18	1.57	7.25	4.07	1.72	6.97	3.97	1.86	6.86	3.93	1.92	6.69	3.87	2.01	6.41		
ating			50	)Hz 220				AFR		1	7.4	]							
Indo			0			tdoor tempe			<i>c</i>		_								
ED (°C		-1 TC	0 Pl	- TC	5 Pl	TC (	) PI	TC	6 PI	TC 1	0 Pl								
15.		4.71	1.73 1.77	5.50 5.26	1.81 1.86	6.29 6.05	1.89 1.94	7.24 7.00	1.99	7.87 7.63	2.06 2.11								
22		4.47	1.79	5.16	1.87	5.95	1.94	6.90	2.06	7.54	2.13								
24		4.28	1.81	5.07	1.89	5.86	1.98	6.81	2.08	7.44	2.14								
25.		4.23	1.82	5.02	1.90	5.81	1.99	6.76	2.09	7.39	2.15								
27.	.0	4.13	1.84	4.92	1.92	5.71	2.00	6.66	2.10	7.29	2.17								
: C:	Total c	ig dry bu apacity le heatin input					(k	2(V) 2(W) 2(W)	3 4 5 6		in the calcu Abou them Capa Corre Leve	e above lation.) ut SHC v with ar cities ar espondir l differe	tables. ( which ar round va e based ng refrig nce:	(Figures e not m alues in l on follo jerant p	out of t	he table d on the roportic onditior ngth:	es shou e table, n. ns:	Id not	the figure be used calculat 7.5 m 0 m above.

## 4 - 1 Cooling/Heating capacity tables

FTYN6	0F+RY	N60E																				
	AFR     16.2       BF     0.29																					
Cooling	9							!	50Hz 22	20-240	/					BF 0.29						
Indo	or								Out	tdoor temp	erature (°Cl	DB)										
EWB	EDB		20			25			30			32			35			40				
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	Pl	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI			
14.0	20	5.60	3.94	1.49	5.60	3.94	1.66	5.59	3.94	1.82	5.48	3.88	1.88	5.31	3.79	1.97	5.03	3.64	2.12			
16.0	22	6.42	4.17	1.54	6.14	4.02	1.68	5.86	3.88	1.83	5.75	3.82	1.89	5.59	3.74	1.98	5.31	3.60	2.12			
18.0	25	6.70	4.31	1.54	6.42	4.17	1.69	6.14	4.04	1.84	6.03	3.99	1.90	5.86	3.91	1.99	5.58	3.78	2.13			
19.0	27	6.84	4.49	1.55	6.56	4.36	1.70	6.28	4.23	1.84	6.17	4.18	1.90	6.00		1.99	5.72	3.98	2.14			
22.0	30 32	7.25	4.31 4.18	1.56	6.97	4.19	1.71	6.69	4.08	1.86	6.58	4.04	1.91	6.41	3.97	2.00	6.14	3.86	2.15			
24.0	52	1.55	4.10	1.57	7.25	4.07	1.72	6.97	3.97	1.86	6.86	0.95	1.92	6.69	3.87	2.01	6.41	3.77	2.16			
Heating	T		5(	0Hz 22(	)-240V					1	7.4	1										
-	-							AFR			7.4	]										
Indo			10		Ou	tdoor temp			6		10	-										
	EDB -10 -5 ( (°C) TC PI TC PI TC							TC	6 Pl	TC	10   Pl	-										
		1					PI			1		]										
15 20		<b>4.71</b> <b>4.47</b>	1.73 1.77	5.50 5.26	1.81 1.86	6.29 6.05	1.89 1.94	7.24 7.00	1.99 2.04	7.87 7.63	2.06	ł										
20		4.47	1.79	5.16	1.87	5.95	1.94	6.90	2.06	7.54	2.13	ł										
24		4.28	1.81	5.07	1.89	5.86	1.98	6.81	2.00	7.44	2.13											
25		4.23	1.82	5.02	1.90	5.81	1.99	6.76	2.09	7.39	2.15	ł										
27		4.13	1.84	4.92	1.92	5.71	2.00	6.66	2.10	7.29	2.17	1										
									1		051924/	<b>,</b>										
										26	051924/	4										
	SYI	MBOLS	5						- 1		NO	TES										
BF:	Air flov Bypass	factor					(r	m³/min)	) 1			igs shov or fan m			cities wł	nich inclu	ude a de	duction	for			
EWB:	Enterin	g wet b	ulb tem	p.				°C)	2				shows	nomina	l (rated)	capaciti	es and p	ower in	put.			
	Enterin Total c	g dry bu anacity	ulb temp	Э.				°C) kW)	3		TC, P	l and SH				•			•			
SHC: PI:	Sensibl Power	le heatin	ig capac	city			(H	(kW) 3 TC, PI and SHC must be calculated by interpolation (kW)   (kW) in the above tables. (Figures out of the tables should calculation.)								s should	not be	used f				
									4		them	n with a	round va	alues in	nentione direct pr	roportio	n.	lease ca	alculate			
									5		Corre		ng refrig		owing co iping ler		nditions: gth: 7.5 m 0 m					
									6		Air fl	ow rate	(AFR) a	nd Bypa	ass facto	r (BF) ar	e tabura	ted abo	ve.			

# 5 Dimensional drawing & centre of gravity

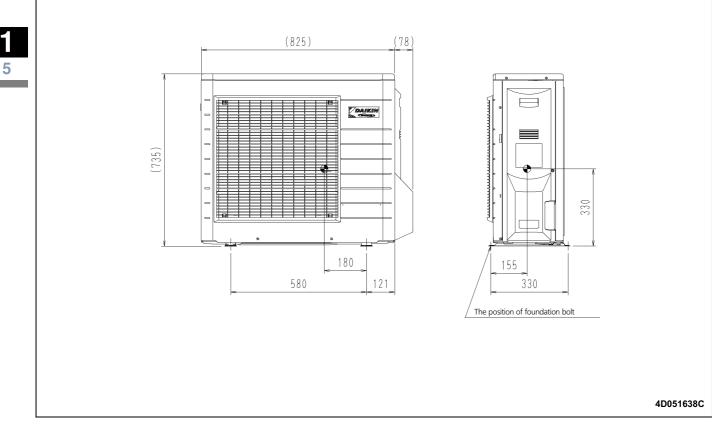
#### 5 - 1 Dimensional drawing



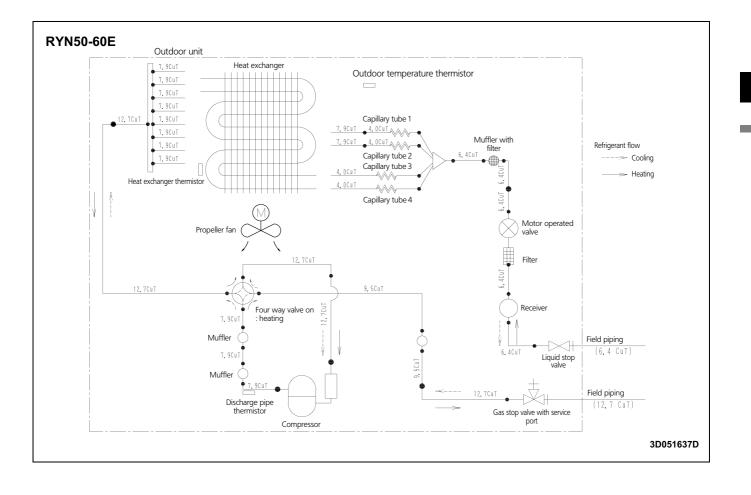
## 5 Dimensional drawing & centre of gravity

### 5 - 2 Centre of gravity

#### RYN50-60E



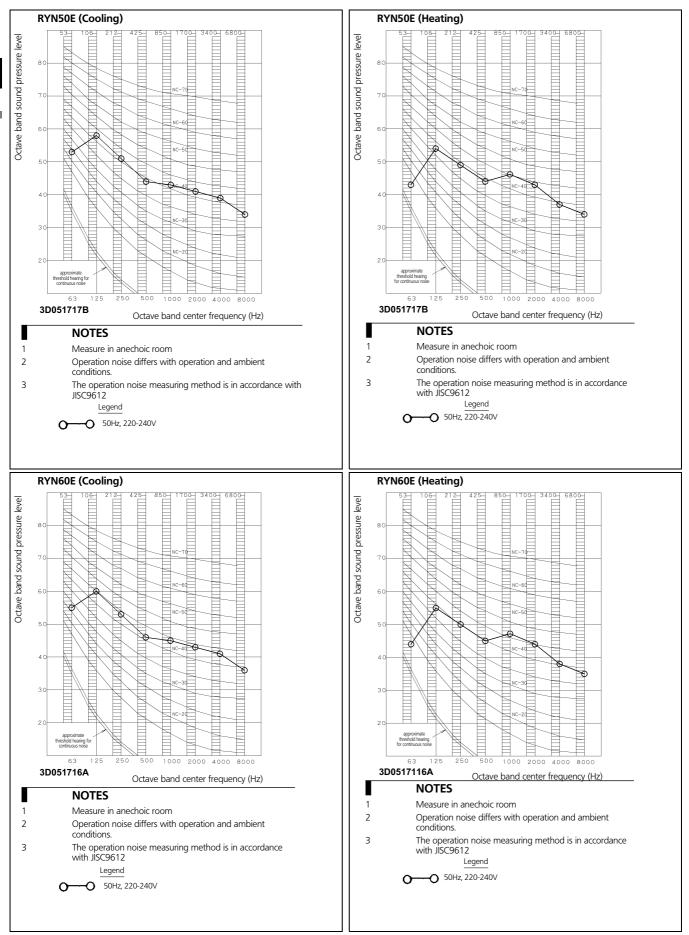
# 6 Piping diagram



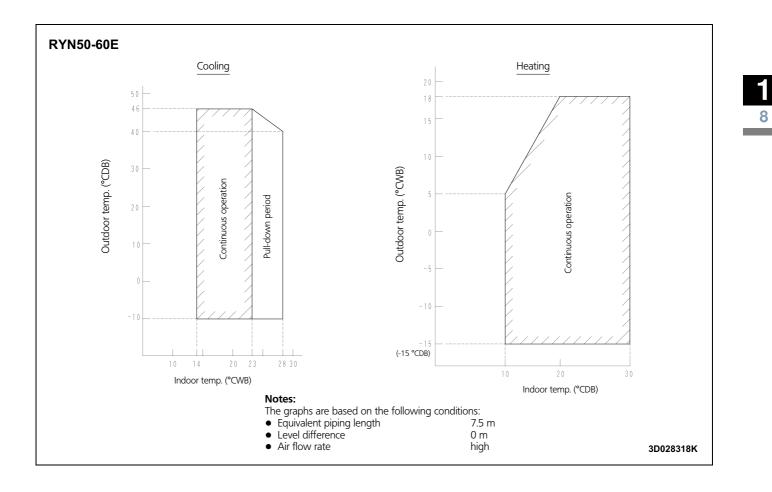
# 7 Sound data

7

#### 7 - 1 Sound pressure spectrum



# 8 Operation range



## 8 Operation range