

3 Capacity tables

3 - 1 Cooling/Heating Capacity Tables

FTYN50L+RYN50L

Cooling

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
424	16°C	21°C	4.95	3.55	1.24	4.78	3.46	1.34	4.60	3.36	1.46	4.41	3.27	1.58	4.05	3.04	1.71	3.74	2.86	1.89
		24°C	4.96	4.25	1.24	4.78	4.15	1.34	4.60	4.06	1.46	4.42	3.96	1.58	4.06	3.69	1.71	3.76	3.49	1.89
		27°C	5.00	4.82	1.24	4.83	4.71	1.35	4.66	4.60	1.46	4.48	4.48	1.58	4.14	4.14	1.72	3.85	3.85	1.89
		30°C	5.15	5.15	1.25	5.00	5.00	1.35	4.85	4.85	1.47	4.69	4.69	1.59	4.35	4.35	1.73	4.07	4.07	1.91
		24°C	5.46	3.31	1.26	5.27	3.23	1.37	5.08	3.14	1.48	4.87	3.06	1.61	4.48	2.85	1.74	4.14	2.68	1.92
		27°C	5.46	3.79	1.26	5.27	3.71	1.37	5.08	3.62	1.48	4.88	3.53	1.61	4.48	3.31	1.74	4.15	3.13	1.92
	19°C	30°C	5.47	4.68	1.26	5.28	4.58	1.37	5.10	4.48	1.48	4.90	4.37	1.61	4.52	4.09	1.74	4.19	3.87	1.92
		33°C	5.54	5.54	1.27	5.36	5.36	1.37	5.18	5.18	1.49	5.01	5.01	1.61	4.63	4.63	1.75	4.33	4.33	1.94
		27°C	6.01	3.24	1.28	5.80	3.17	1.39	5.59	3.09	1.51	5.37	3.00	1.64	4.94	2.80	1.78	4.57	2.64	1.96
		30°C	6.01	3.95	1.28	5.80	3.87	1.39	5.59	3.78	1.51	5.37	3.69	1.64	4.94	3.46	1.78	4.57	3.28	1.96
		33°C	6.01	4.62	1.29	5.80	4.53	1.39	5.59	4.44	1.51	5.37	4.35	1.64	4.95	4.08	1.78	4.58	3.88	1.96
		36°C	6.03	5.24	1.29	5.83	5.13	1.39	5.63	5.02	1.51	5.43	4.91	1.64	5.00	4.61	1.78	4.65	4.37	1.96
478	16°C	21°C	5.15	3.70	1.29	4.96	3.61	1.36	4.78	3.51	1.47	4.58	3.41	1.59	4.20	3.18	1.73	3.88	2.99	1.90
		24°C	5.17	4.49	1.25	4.98	4.39	1.36	4.79	4.28	1.47	4.60	4.18	1.59	4.23	3.90	1.73	3.91	3.68	1.90
		27°C	5.23	5.10	1.26	5.05	4.98	1.36	4.88	4.88	1.47	4.70	4.70	1.60	4.34	4.34	1.74	4.05	4.05	1.92
		30°C	5.45	5.45	1.27	5.29	5.29	1.37	5.13	5.13	1.49	4.96	4.96	1.61	4.60	4.60	1.75	4.30	4.30	1.94
		24°C	5.67	3.50	1.27	5.47	3.41	1.38	5.27	3.32	1.49	5.06	3.23	1.62	4.64	3.01	1.76	4.29	2.84	1.94
		27°C	5.68	4.03	1.27	5.48	3.94	1.38	5.28	3.86	1.49	5.06	3.76	1.62	4.65	3.52	1.76	4.30	3.33	1.94
	19°C	30°C	5.71	4.98	1.28	5.51	4.87	1.38	5.32	4.76	1.50	5.11	4.64	1.62	4.71	4.34	1.76	4.37	4.10	1.94
		33°C	5.81	5.81	1.28	5.63	5.63	1.39	5.45	5.45	1.50	5.27	5.27	1.63	4.88	4.88	1.77	4.56	4.56	1.96
		27°C	6.23	3.43	1.30	6.02	3.35	1.41	5.79	3.26	1.52	5.56	3.18	1.65	5.11	2.96	1.79	4.73	2.79	1.97
		30°C	6.24	4.21	1.30	6.02	4.12	1.41	5.80	4.03	1.52	5.57	3.93	1.65	5.12	3.68	1.79	4.73	3.50	1.97
		33°C	6.25	4.93	1.30	6.04	4.84	1.41	5.81	4.74	1.53	5.59	4.64	1.65	5.14	4.35	1.79	4.76	4.13	1.98
		36°C	6.29	5.57	1.30	6.09	5.47	1.41	5.88	5.35	1.53	5.66	5.23	1.66	5.22	4.89	1.80	4.87	4.62	1.99
536	16°C	21°C	5.34	3.86	1.26	5.15	3.76	1.37	4.95	3.67	1.48	4.74	3.56	1.60	4.35	3.32	1.74	4.01	3.12	1.92
		24°C	5.37	4.69	1.27	5.17	4.58	1.37	4.98	4.47	1.48	4.78	4.35	1.61	4.39	4.06	1.74	4.05	3.83	1.92
		27°C	5.46	5.38	1.27	5.28	5.24	1.37	5.10	5.09	1.49	4.92	4.92	1.61	4.54	4.54	1.75	4.23	4.23	1.94
		30°C	5.73	5.73	1.28	5.56	5.56	1.39	5.39	5.39	1.50	5.21	5.21	1.63	4.83	4.83	1.77	4.51	4.51	1.96
		24°C	5.88	3.70	1.28	5.67	3.61	1.39	5.45	3.52	1.51	5.23	3.43	1.63	4.80	3.19	1.77	4.43	3.01	1.95
		27°C	5.90	4.29	1.29	5.68	4.19	1.39	5.47	4.09	1.51	5.25	3.99	1.64	4.82	3.73	1.77	4.46	3.53	1.95
	19°C	30°C	5.94	5.27	1.29	5.73	5.16	1.39	5.53	5.04	1.51	5.32	4.92	1.64	4.90	4.59	1.78	4.54	4.33	1.96
		33°C	6.07	6.07	1.29	5.90	5.90	1.40	5.71	5.71	1.52	5.53	5.53	1.65	5.12	5.12	1.80	4.79	4.79	1.98
		27°C	6.45	3.62	1.31	6.22	3.54	1.42	5.99	3.46	1.54	5.75	3.36	1.67	5.28	3.14	1.81	4.88	2.96	1.99
		30°C	6.46	4.47	1.31	6.23	4.38	1.42	6.00	4.29	1.54	5.76	4.19	1.67	5.29	3.92	1.81	4.89	3.72	1.99
		33°C	6.49	5.24	1.31	6.26	5.14	1.42	6.03	5.04	1.54	5.79	4.93	1.67	5.33	4.62	1.81	4.94	4.38	2.00
		36°C	6.54	5.91	1.31	6.34	5.80	1.42	6.12	5.68	1.54	5.90	5.54	1.68	5.45	5.16	1.82	5.09	4.86	2.01

Remark

AFR: Air flow rate (CFM)
 EWB: Entering wet bulb temp. (°C)
 EDB: Entering dry bulb temp. (°C)
 TC: Total cooling capacity (kW)
 SHC: Sensible heating capacity (kW)
 PI: Power input

Notes

- 1 Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
- 2 Shows nominal capacities
- 3 Direct interpolation is permissible. Do not extrapolate.
- 4 Unit is able to operate at ambient from 0°C to 46°C without pressure trip.

Heating

Indoor DB°C	Outdoor WB°C													
	-9		-6		-5		6		12		15		18	
	Q (kW)	SC (kW)	Q (kW)	SC (kW)	Q (kW)	SC (kW)	Q (kW)	SC (kW)	Q (kW)	SC (kW)	Q (kW)	SC (kW)	Q (kW)	SC (kW)
15	3.349	3.349	3.790	3.790	3.937	3.937	5.556	5.556	6.439	6.439	6.880	6.880	7.322	7.322
17	3.261	3.261	3.399	3.399	3.839	3.839	5.549	5.549	6.298	6.298	6.732	6.732	7.166	7.166
19	3.173	3.173	3.009	3.009	3.742	3.742	5.543	5.543	6.158	6.158	6.584	6.584	7.011	7.011
21	3.085	3.085	2.871	2.871	3.644	3.644	5.434	5.434	6.018	6.018	6.437	6.437	6.855	6.855
23	2.997	2.997	2.987	2.987	3.546	3.546	5.224	5.224	5.877	5.877	6.289	6.289	6.700	6.700
25	2.910	2.910	3.103	3.103	3.448	3.448	5.014	5.014	5.737	5.737	6.141	6.141	6.545	6.545
27	2.822	2.822	3.218	3.218	3.350	3.350	4.804	4.804	5.596	5.596	5.993	5.993	6.389	6.389

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FTYN60L+RYN60L

Cooling

AFR (CFM)	EWB	EDB	Outdoor temperature																	
			19°C			25°C			30°C			35°C			40°C			46°C		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
474	16°C	21°C	5.67	3.96	1.42	5.47	3.85	1.54	5.26	3.75	1.66	5.05	3.64	1.80	4.64	3.39	1.96	4.28	3.19	2.16
		24°C	5.67	4.74	1.42	5.47	4.63	1.54	5.27	4.52	1.66	5.06	4.41	1.81	4.65	4.12	1.96	4.30	3.89	2.16
		27°C	5.72	5.37	1.42	5.53	5.25	1.54	5.33	5.13	1.67	5.13	4.99	1.81	4.74	4.65	1.96	4.41	4.36	2.17
		30°C	5.90	5.90	1.43	5.73	5.73	1.55	5.55	5.55	1.68	5.37	5.37	1.82	4.98	4.98	1.98	4.66	4.66	2.19
		24°C	6.25	3.69	1.44	6.03	3.60	1.56	5.81	3.50	1.69	5.58	3.41	1.84	5.13	3.17	1.99	4.74	2.99	2.20
		27°C	6.26	4.23	1.44	6.03	4.13	1.56	5.81	4.04	1.69	5.58	3.94	1.84	5.13	3.68	1.99	4.75	3.49	2.20
	19°C	30°C	6.26	5.22	1.44	6.05	5.10	1.56	5.83	4.99	1.69	5.61	4.87	1.84	5.17	4.56	1.99	4.79	4.31	2.20
		33°C	6.34	6.34	1.45	6.13	6.13	1.57	5.93	5.93	1.70	5.73	5.73	1.85	5.30	5.30	2.00	4.96	4.96	2.21
		27°C	6.88	3.62	1.47	6.64	3.53	1.59	6.40	3.44	1.73	6.15	3.34	1.87	5.65	3.12	2.03	5.23	2.94	2.24
		30°C	6.88	4.41	1.47	6.64	4.31	1.59	6.40	4.21	1.73	6.15	4.11	1.87	5.65	3.85	2.03	5.23	3.65	2.24
		33°C	6.88	5.15	1.47	6.64	5.05	1.59	6.40	4.95	1.73	6.15	4.85	1.87	5.66	4.55	2.03	5.25	4.32	2.24
		36°C	6.91	5.83	1.47	6.68	5.72	1.59	6.45	5.80	1.73	6.21	5.48	1.88	5.73	5.13	2.04	5.33	4.87	2.24
537	16°C	21°C	5.90	4.13	1.43	5.68	4.02	1.55	5.47	3.91	1.68	5.24	3.80	1.82	4.81	3.54	1.97	4.44	3.33	2.18
		24°C	5.91	5.01	1.43	5.70	4.89	1.55	5.49	4.77	1.68	5.27	4.65	1.82	4.84	4.34	1.98	4.47	4.10	2.18
		27°C	5.98	5.69	1.44	5.78	5.56	1.56	5.58	5.41	1.69	5.38	5.25	1.83	4.97	4.88	1.99	4.63	4.56	2.19
		30°C	6.23	6.23	1.45	6.05	6.05	1.57	5.87	5.87	1.70	5.68	5.68	1.85	5.26	5.26	2.01	4.92	4.92	2.21
		24°C	6.50	3.90	1.46	6.28	3.81	1.58	6.03	3.71	1.71	5.79	3.60	1.85	5.31	3.36	2.01	4.91	3.17	2.21
		27°C	6.51	4.50	1.46	6.27	4.40	1.58	6.04	4.30	1.71	5.80	4.19	1.85	5.33	3.92	2.01	4.92	3.71	2.22
	19°C	30°C	6.54	5.55	1.46	6.31	5.43	1.58	6.08	5.30	1.71	5.85	5.17	1.86	5.39	4.84	2.01	5.00	4.57	2.22
		33°C	6.65	6.65	1.46	6.44	6.44	1.59	6.24	6.24	1.72	6.03	6.03	1.87	5.59	5.59	2.03	5.22	5.22	2.24
		27°C	7.14	3.82	1.48	6.89	3.73	1.61	6.63	3.64	1.74	6.37	3.54	1.89	5.85	3.30	2.05	5.41	3.11	2.26
		30°C	7.15	4.69	1.48	6.89	4.59	1.61	6.64	4.49	1.74	6.37	4.39	1.89	5.86	4.11	2.05	5.42	3.90	2.26
		33°C	7.16	5.49	1.48	6.91	5.39	1.61	6.66	5.28	1.74	6.39	5.17	1.89	5.88	4.85	2.05	5.45	4.60	2.26
		36°C	7.20	6.21	1.49	6.97	6.09	1.61	6.73	5.97	1.75	6.48	5.83	1.90	5.98	5.45	2.06	5.58	5.15	2.27
614	16°C	21°C	6.11	4.31	1.45	5.89	4.20	1.56	5.66	4.09	1.69	5.43	3.97	1.83	4.98	3.70	1.99	4.59	3.48	2.19
		24°C	6.15	5.23	1.45	5.92	5.11	1.57	5.70	4.98	1.70	5.47	4.85	1.84	5.02	4.53	1.99	4.64	4.27	2.20
		27°C	6.25	5.99	1.45	6.04	5.84	1.57	5.84	5.68	1.70	5.63	5.50	1.85	5.20	5.10	2.01	4.85	4.76	2.21
		30°C	6.56	6.56	1.46	6.37	6.37	1.59	6.17	6.17	1.72	5.97	5.97	1.87	5.53	5.53	2.03	5.16	5.16	2.24
		24°C	6.73	4.13	1.47	6.49	4.03	1.59	6.24	3.92	1.72	5.99	3.82	1.87	5.49	3.56	2.03	5.07	3.36	2.23
		27°C	6.75	4.78	1.47	6.51	4.67	1.59	6.26	4.56	1.72	6.01	4.45	1.87	5.52	4.16	2.03	5.10	3.93	2.23
	19°C	30°C	6.81	5.88	1.47	6.56	5.75	1.59	6.33	5.62	1.73	6.09	5.48	1.87	5.60	5.12	2.03	5.20	4.82	2.24
		33°C	6.95	6.95	1.48	6.75	6.75	1.60	6.54	6.54	1.74	6.33	6.33	1.89	5.86	5.86	2.05	5.48	5.48	2.27
		27°C	7.38	4.04	1.50	7.12	3.95	1.62	6.85	3.85	1.76	6.58	3.75	1.91	6.04	3.50	2.07	5.58	3.30	2.28
		30°C	7.40	4.98	1.50	7.14	4.89	1.62	6.87	4.78	1.76	6.59	4.67	1.91	6.06	4.37	2.07	5.60	4.15	2.28
		33°C	7.43	5.84	1.50	7.17	5.73	1.62	6.91	5.61	1.76	6.63	5.49	1.91	6.10	5.15	2.07	5.65	4.88	2.28
		36°C	7.49	6.59	1.50	7.26	6.47	1.63	7.01	6.33	1.77	6.75	6.17	1.92	6.24	5.76	2.08	5.82	5.42	2.30

Remark

AFR: Air flow rate (CFM)
 EWB: Entering wet bulb temp. (°C)
 EDB: Entering dry bulb temp. (°C)
 TC: Total cooling capacity (kW)
 SHC: Sensible heating capacity (kW)
 PI: Power input

Notes

- 1 Ratings shown are gross capacities which do not include a deduction for indoor fan motor heat.
- 2 Shows nominal capacities
- 3 Direct interpolation is permissible. Do not extrapolate.
- 4 Unit is able to operate at ambient from 0°C to 46°C without pressure trip.

Heating

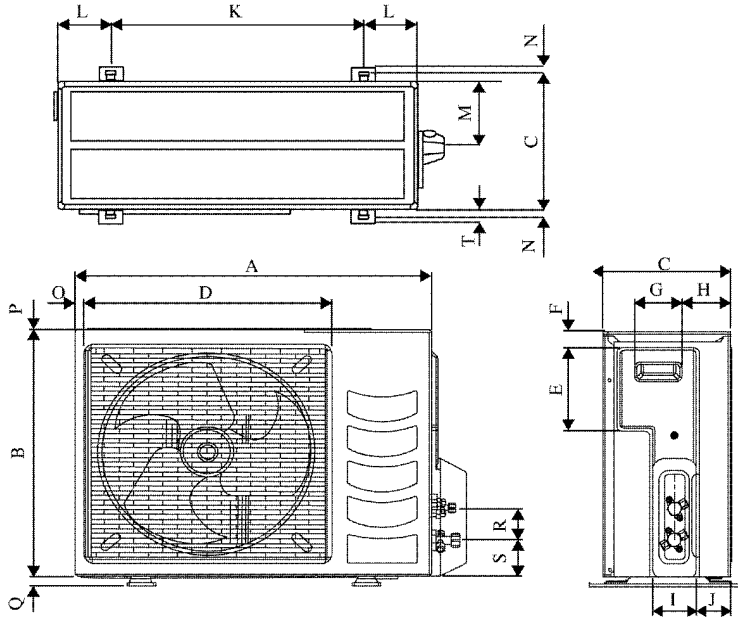
Indoor DB°C	Outdoor WB°C													
	-9		-6		-5		6		12		15		18	
	Q (kW)	SC (kW)	Q (kW)	SC (kW)	Q (kW)	SC (kW)	Q (kW)	SC (kW)	Q (kW)	SC (kW)	Q (kW)	SC (kW)	Q (kW)	SC (kW)
15	3.845	3.845	4.352	4.352	4.521	4.521	6.379	6.379	7.393	7.393	7.899	7.899	8.406	8.406
17	3.744	3.744	3.818	3.818	4.418	4.418	6.371	6.371	7.284	7.284	7.789	7.789	8.295	8.295
19	3.643	3.643	3.285	3.285	4.316	4.316	6.364	6.364	7.174	7.174	7.679	7.679	8.183	8.183
21	3.542	3.542	3.122	3.122	4.213	4.213	6.271	6.271	7.065	7.065	7.569	7.569	8.072	8.072
23	3.442	3.442	3.328	3.328	4.111	4.111	6.094	6.094	6.956	6.956	7.458	7.458	7.960	7.960
25	3.341	3.341	3.534	3.534	4.009	4.009	5.916	5.916	6.847	6.847	7.348	7.348	7.849	7.849
27	3.240	3.240	3.740	3.740	3.906	3.906	5.739	5.739	6.738	6.738	7.238	7.238	7.737	7.737

4 Dimensional drawings

4 - 1 Dimensional Drawings

RYN25-35L

All dimensions are in mm



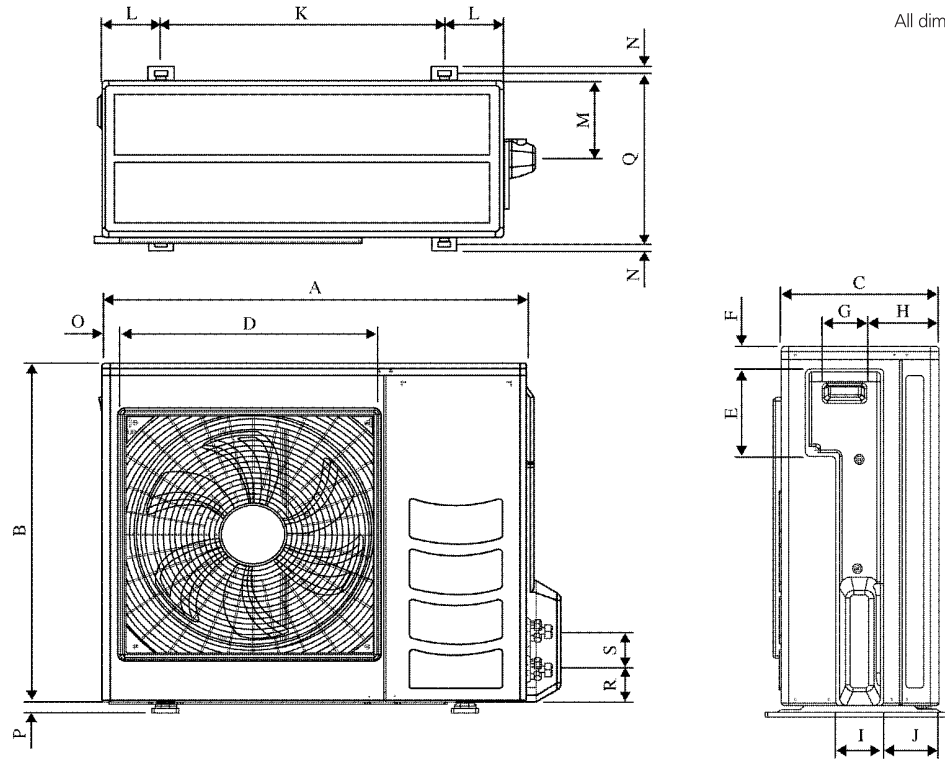
Model	Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
RYN25/35L		700	521	250	485	175	36	95	93	86	68	441	130	111	15	18	3	19	65	80	30

4 Dimensional drawings

4 - 1 Dimensional Drawings

RYN50-60L

All dimensions are in mm



Model	Dimension																		
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
RYN50L	855	628	328	520	179	46	93	149	101	113	603	126	164	15	34	23	362	73	75
RYN60L	855	730	328	520	179	46	93	149	101	113	603	126	164	15	34	23	362	73	75

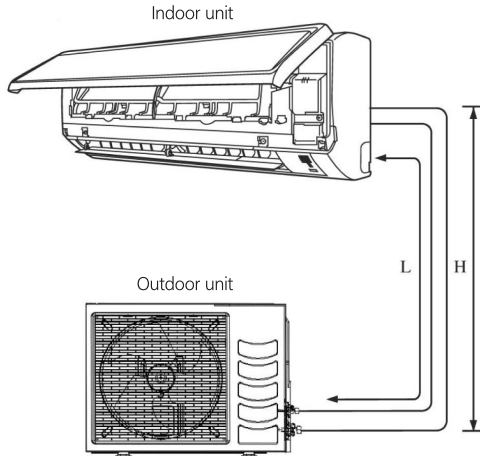
5 Piping diagrams

5 - 1 Piping Diagrams

FTYN-L+RYN-L

Max. piping length

If the pipe is too long, both the capacity and reliability of the unit will drop. As the number of bends increases, resistance to the flow of refrigerant system increases, thus lowering cooling capacity. As a result, the compressor may become defective. Always choose the shortest path and follow the recommendations as tabulated below:



Model	Indoor	FTYN25L	FTYN35L	FTYN50L	FTYN60L
	Outdoor	RYN25L	RYN35L	RYN50L	RYN60L
Min. allowable length, m		3			3
Max. allowable length, m		12			15
Max. allowable elevation, m		5			8
Liquid, mm/(inch)		6.35 (1/4")			
gas, mm/(inch)		9.52 (3/8")		12.70 (1/2")	15.88 (5/8")

*Be sure to add the proper amount of additional refrigerant. Failure to do so may result in reduced performance.

Remark: The refrigerant pre-charged in the outdoor unit is for piping length up to 7.6m / 25ft.

Additional charge

The refrigerant is pre-charged in the outdoor unit. If the piping length is less than 7.6m, then additional charge after vacuuming is not necessary. If the piping length is more than 7.6m, then is the additional charge value as indicated in the table.

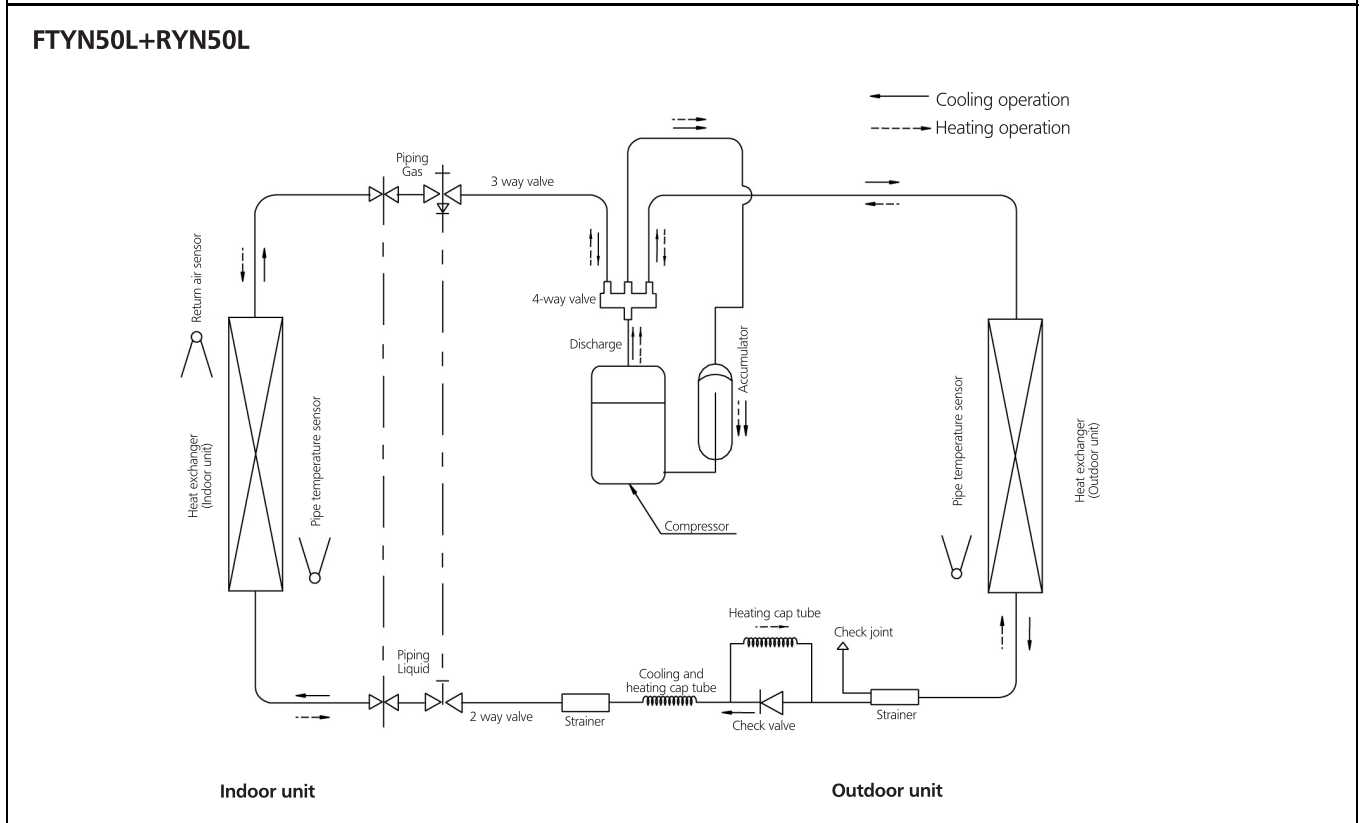
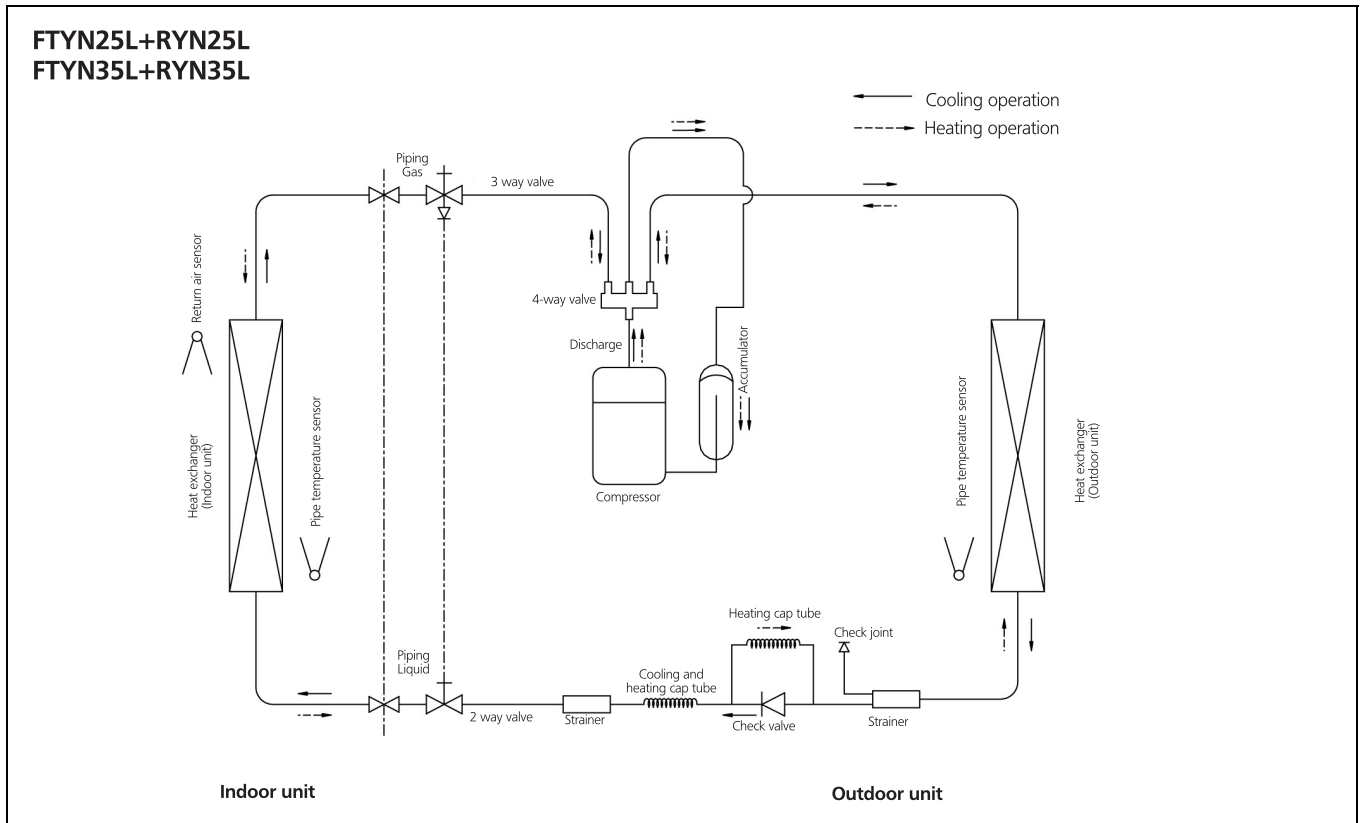
Additional refrigerant charge [g] per additional 1m length as tabulated (For R410A models)

Model	Indoor	FTYN25L	FTYN35L	FTYN50L	FTYN60L
	Outdoor	RYN25L	RYN35L	RYN50L	RYN60L
Additional charge [g/m]		16			

5 Piping diagrams

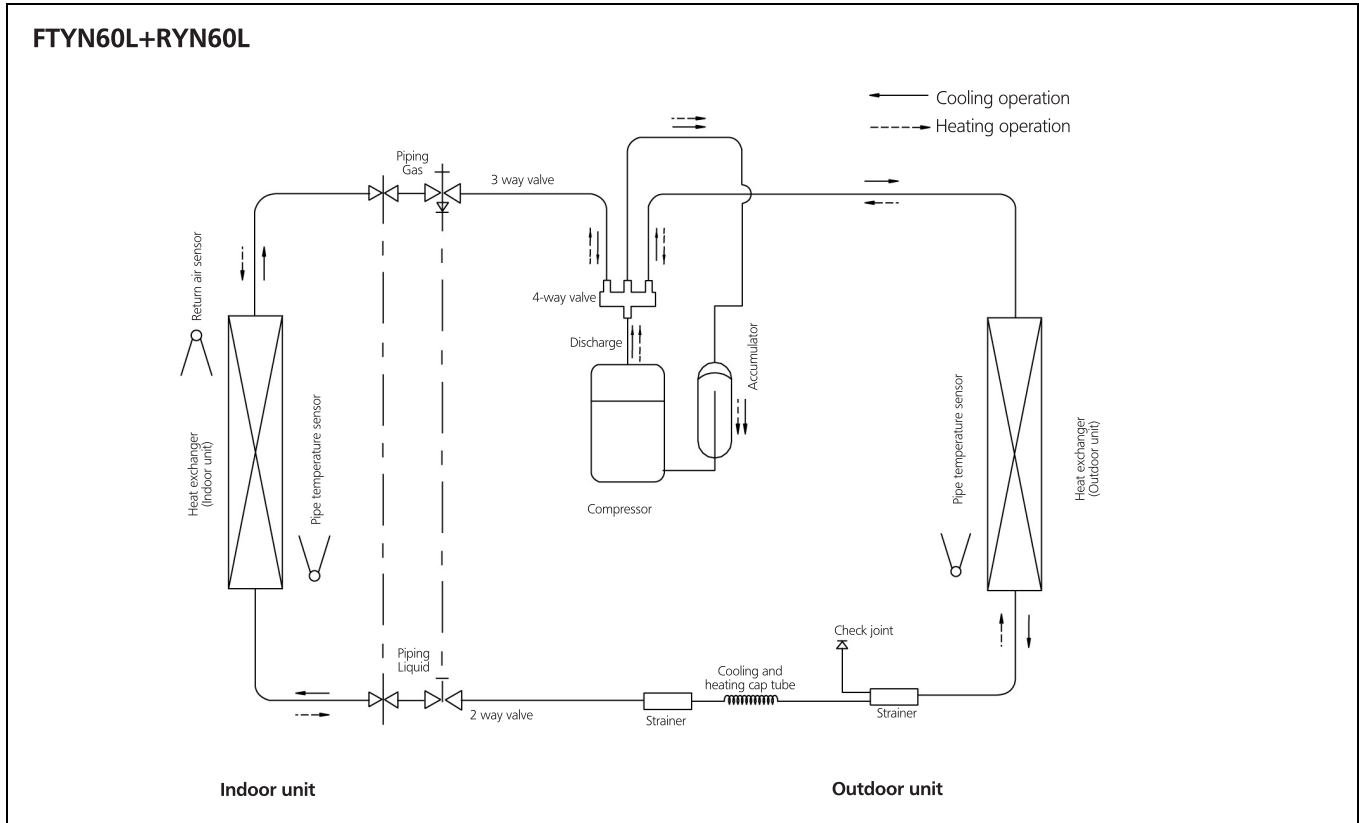
5 - 1 Piping Diagrams

5



5 Piping diagrams

5 - 1 Piping Diagrams

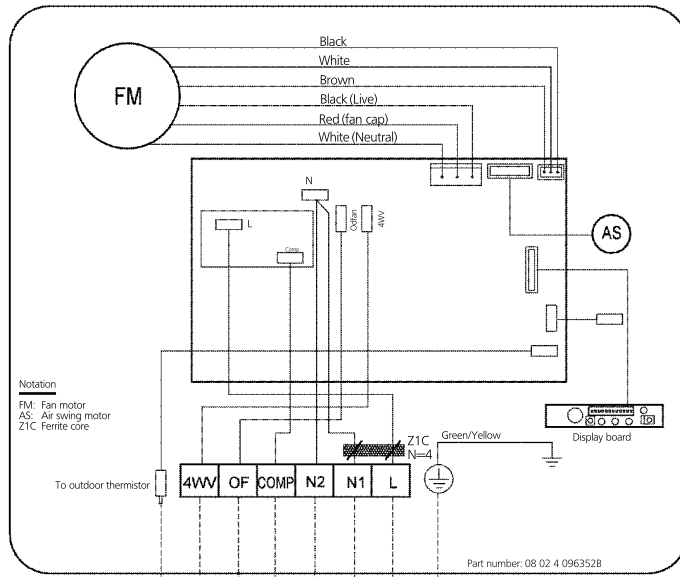


6 Wiring diagrams

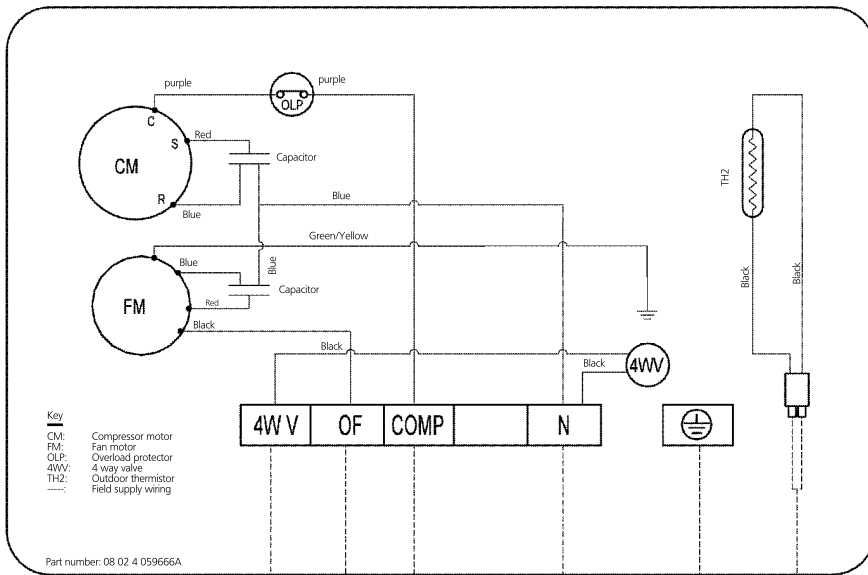
6 - 1 Wiring Diagrams - Single Phase

6

RYN25-35L



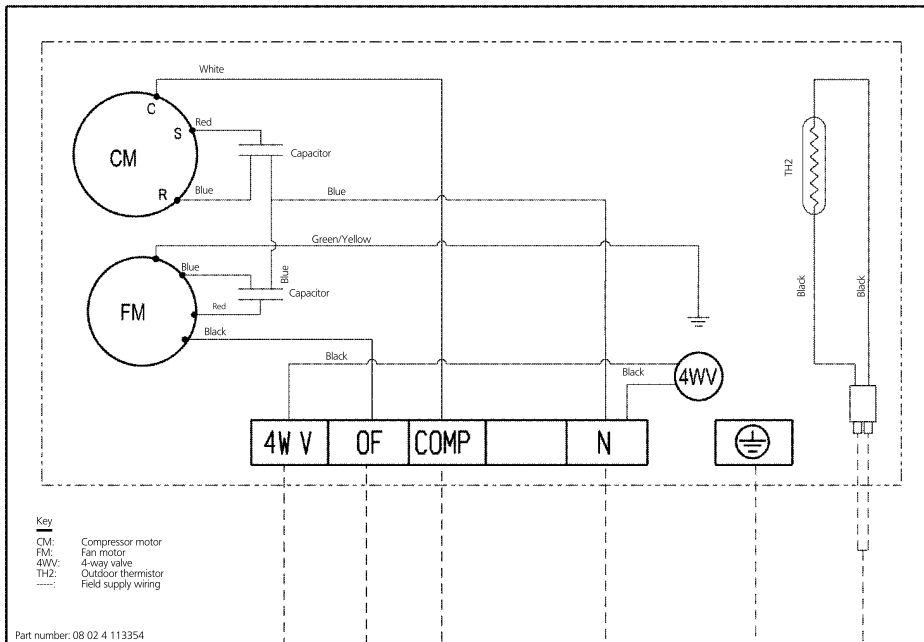
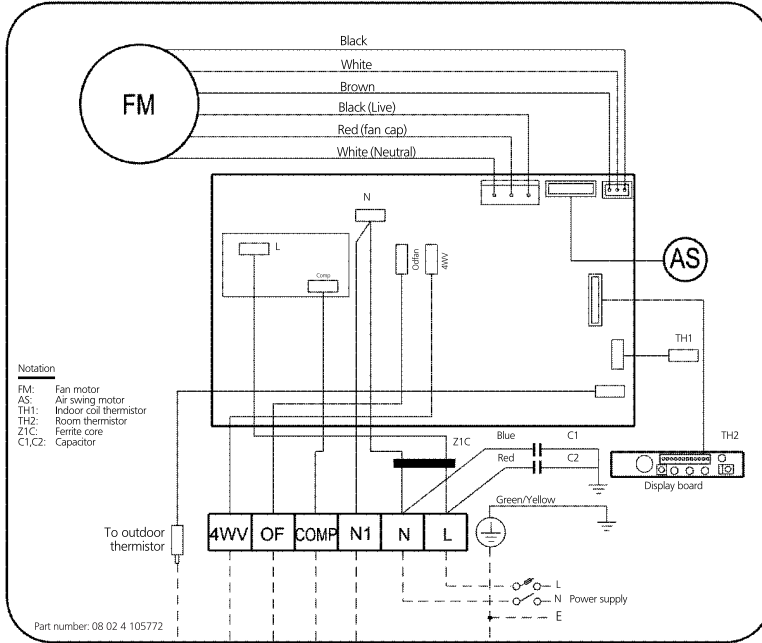
Legend:
 L 240VAC
 N 1 phase
 E 50Hz



6 Wiring diagrams

6 - 1 Wiring Diagrams - Single Phase

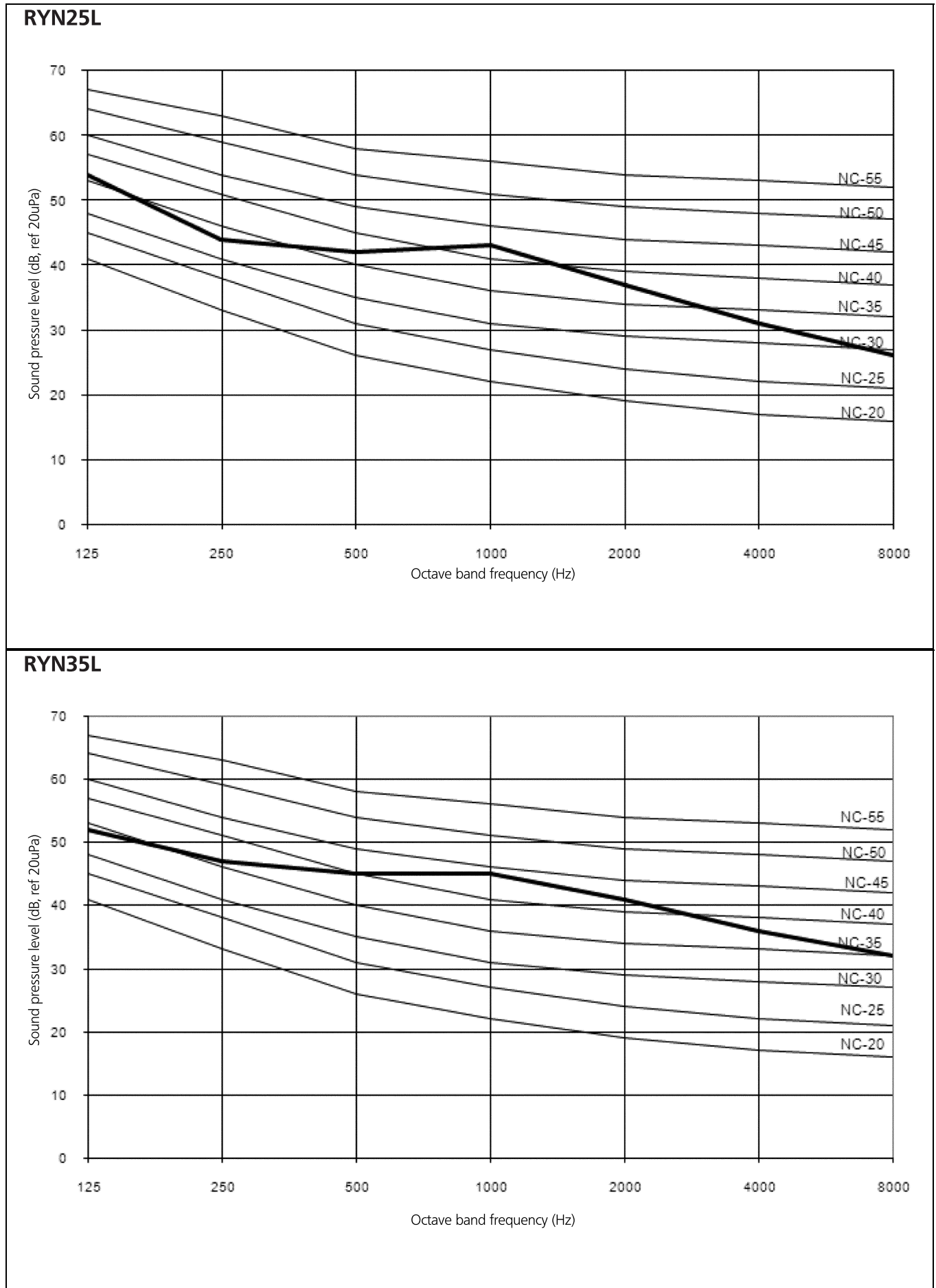
RYN50-60L



7 Sound data

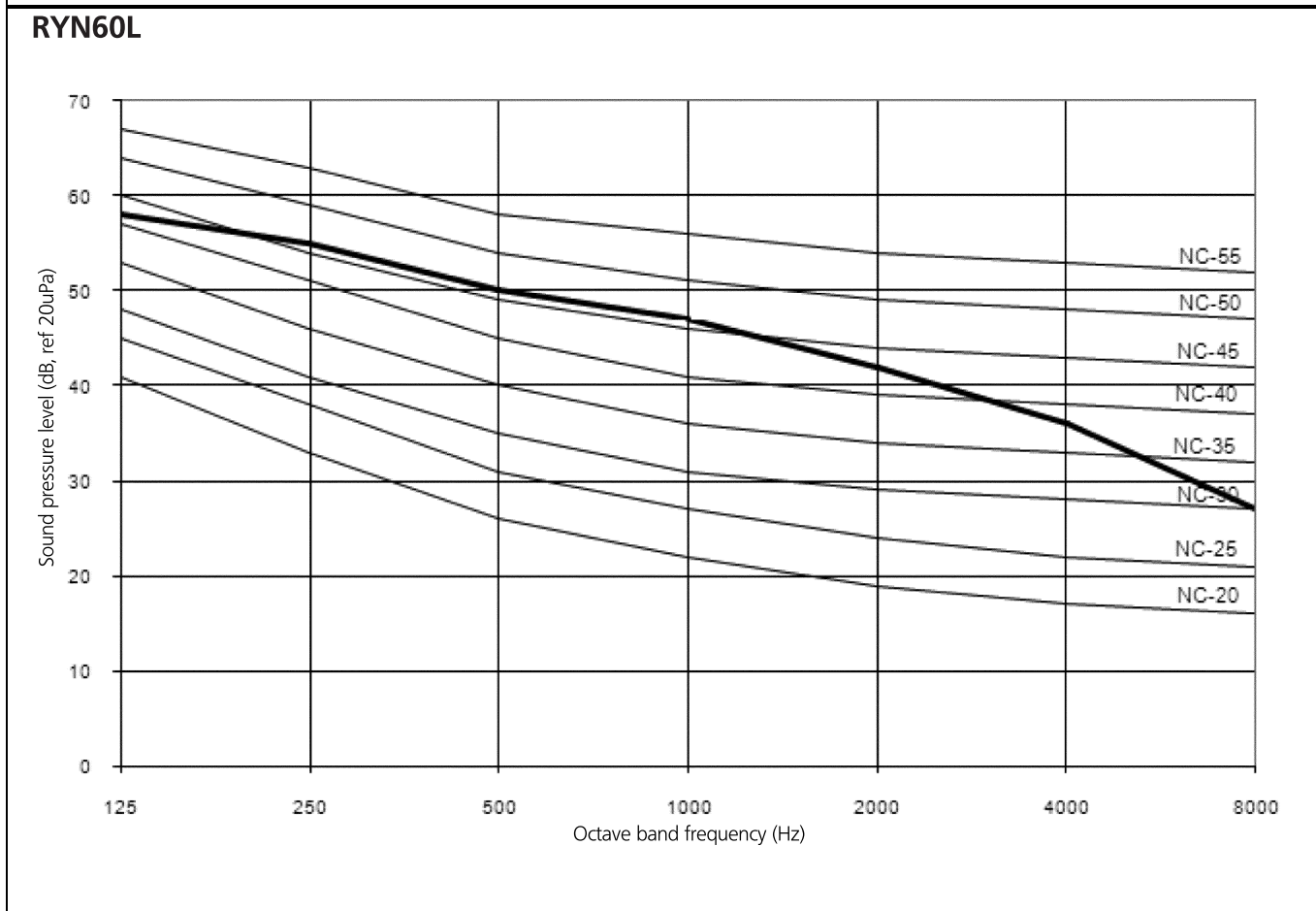
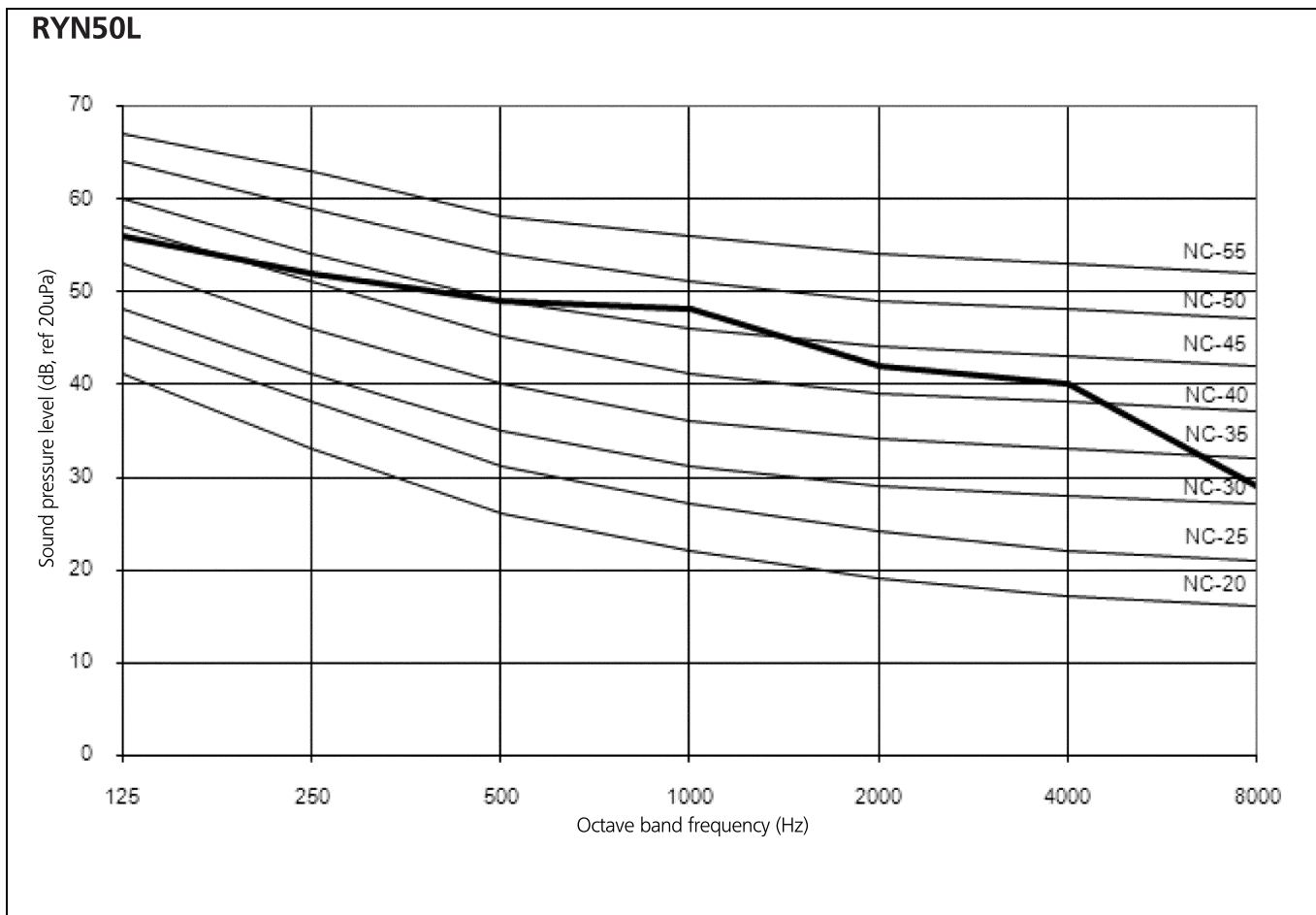
7 - 1 Sound Pressure Spectrum

7



7 Sound data

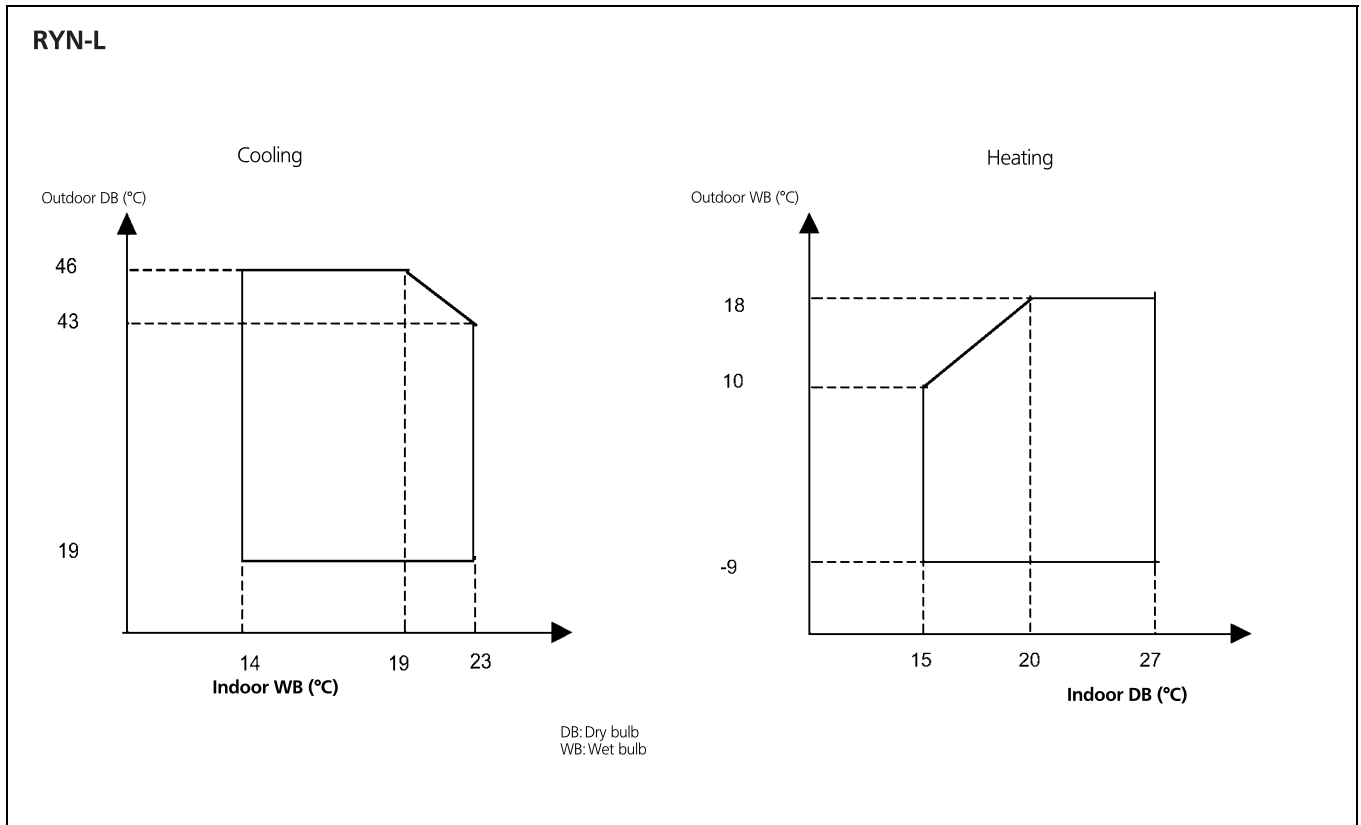
7 - 1 Sound Pressure Spectrum



8 Operation range

8 - 1 Operation Range

8



In all of us,
a green heart



Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.



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