

Service Manual

Air Conditioner



Indoor Unit
CS-E9PKEA
CS-E12PKEA
CS-E15PKEA
CS-E18PKEA

Outdoor Unit
CU-E9PKEA
CU-E12PKEA
CU-E15PKEA
CU-E18PKEA

Subject: Technical Data and Service Data Update

Please file and use this supplement manual together with the service manual for Model No. CS-E9PKEA CU-E9PKEA CS-E12PKEA CU-E12PKEA CS-E15PKEA CU-E15PKEA CS-E18PKEA CU-E18PKEA Order No. PAPAMY1212049CE

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the products dealt with in this service information by anyone else could result in serious injury or death.

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1. Technical Data

Technical data provided are based on the air conditioner running under free frequency.

Cool Mode Performance Data

Unit setting: 5m Piping Length

Remote Control Setting: Cool, 16°C, Hi Fan

Voltage: 230V

CU-E9PKEA

Indoor (°C)		Outdoor (°C)																				
DB	WB	-20			-10			0			5			16			25			35		
		TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
27	19	2617	2200	390	2635	2208	366	2735	2203	373	2604	2157	426	2986	2304	308	2747	2224	403	2500	2228	515
23	15.7	2426	2218	339	2408	2184	390	2519	2207	373	2473	2204	408	2770	2319	318	2477	2173	407	2218	2097	511
20	13.3	2032	1953	335	2002	1967	298	2045	2006	346	2121	2040	355	2563	2274	313	2323	2119	407	2031	1995	507

CU-E12PKEA

Indoor (°C)		Outdoor (°C)																				
DB	WB	-20			-10			0			5			16			25			35		
		TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
27	19	3664	3080	659	3690	3092	619	3829	3084	631	3646	3019	719	4180	3225	520	3846	3114	680	3500	3119	870
23	15.7	3396	3105	573	3372	3058	658	3527	3089	630	3462	3086	689	3878	3246	537	3468	3042	688	3105	2936	864
20	13.3	2844	2734	565	2802	2753	504	2864	2809	584	2970	2857	599	3589	3184	529	3252	2967	688	2843	2793	857

CU-E15PKEA

Indoor (°C)		Outdoor (°C)																				
DB	WB	-20			-10			0			5			16			25			35		
		TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
27	19	4062	3100	924	5046	3882	839	4888	3833	903	5054	3886	832	4820	3769	827	4624	3674	1039	4200	3551	1200
23	15.7	3503	2893	928	4440	3703	926	4579	3732	854	4526	3721	881	4470	3629	827	4253	3595	1019	3843	3421	1267
20	13.3	3198	2797	897	3909	3510	918	3767	3409	676	3765	3426	752	3908	3453	692	4007	3556	1019	3544	3291	1245

CU-E18PKEA

Indoor (°C)		Outdoor (°C)																				
DB	WB	-20			-10			0			5			16			25			35		
		TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
27	19	5835	4454	1109	6007	4621	1007	5819	4563	1083	6017	4626	998	5739	4487	992	5504	4373	1247	5000	4228	1440
23	15.7	5335	4406	1114	5286	4409	1111	5451	4443	1025	5388	4430	1057	5321	4320	992	5063	4279	1223	4576	4073	1520
20	13.3	4896	4283	1076	4654	4178	1102	4485	4059	812	4482	4079	902	4652	4111	830	4770	4234	1222	4219	3917	1494

Definition

TC: Total capacity (W)

SHC: Sensible heating capacity (W)

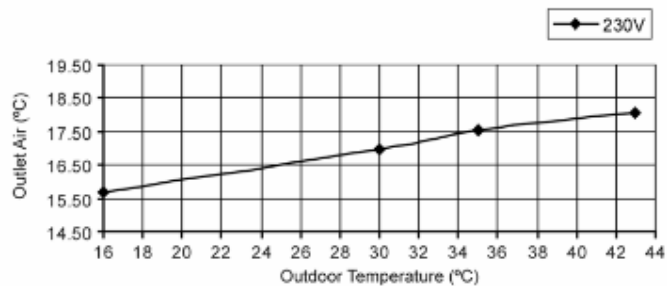
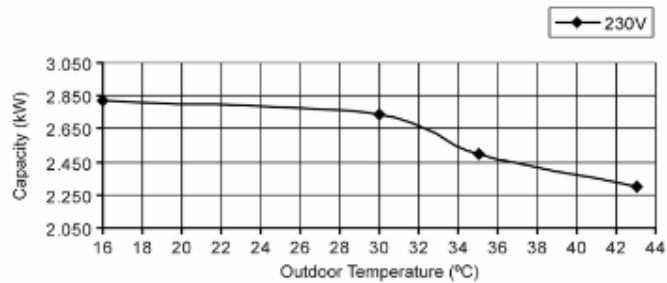
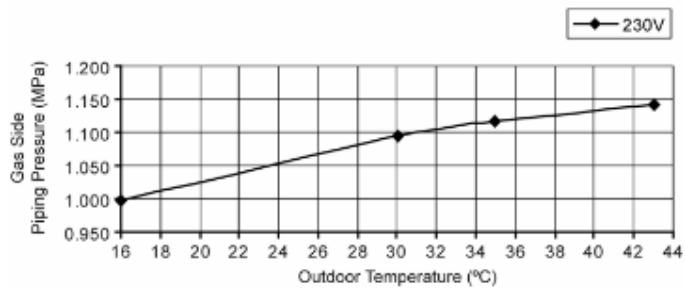
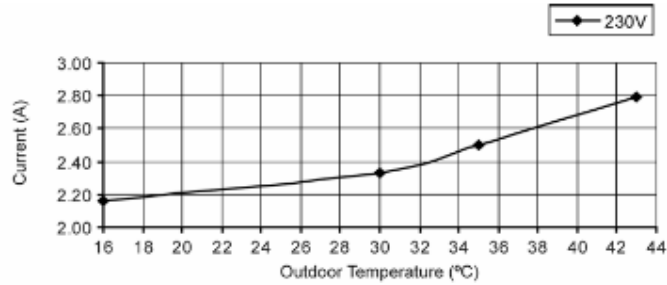
IP: Power input (W)

2. Service Data

Service data provided are based on the air conditioner running under rated frequency during forced cooling / forced heating mode.

2.1 CS-E9PKEA CU-E9PKEA

- Cooling Characteristic
[Condition] Indoor temperature: 27/19°C
Piping Length: 5m
Remote condition: High fan speed, Cool 16°C
Comp. Hz: F_c

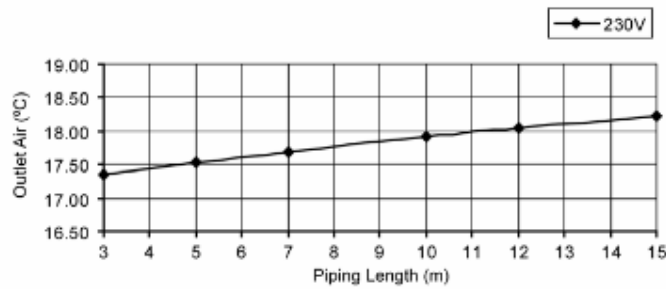
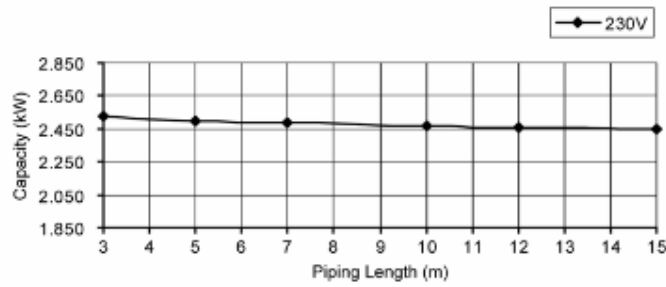
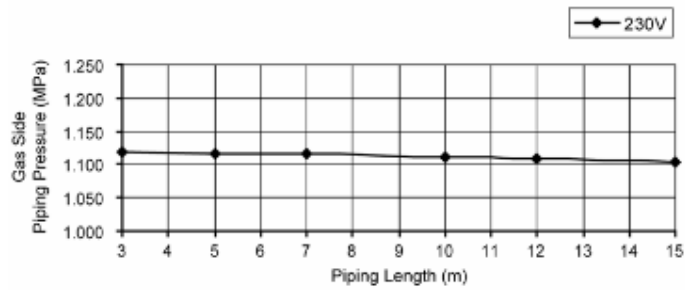
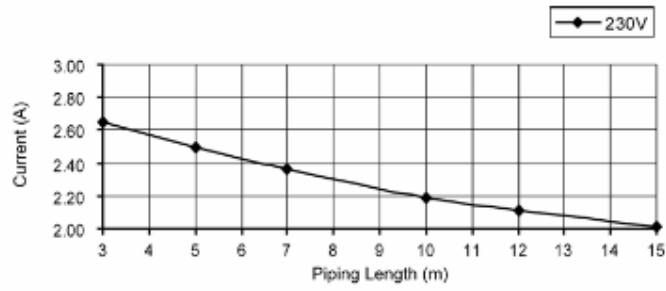


- Piping Length Characteristic

[Condition] Indoor/Outdoor temperature: 27/19°C, 35/24°C

Remote condition: High fan speed, Cool 16°C

Comp. Hz: F_c



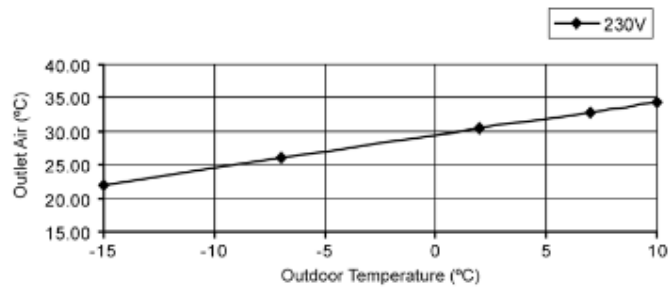
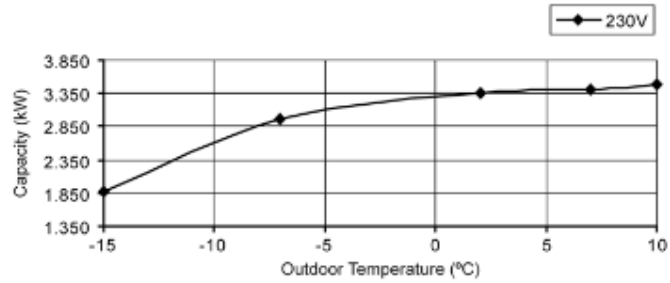
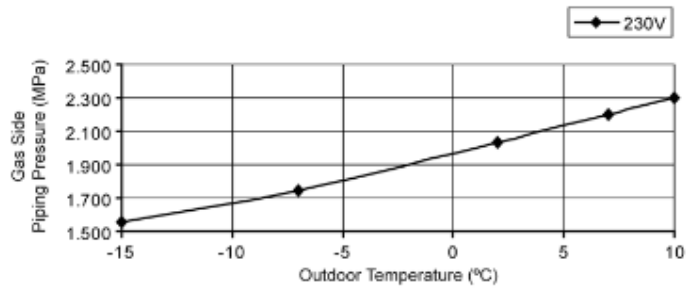
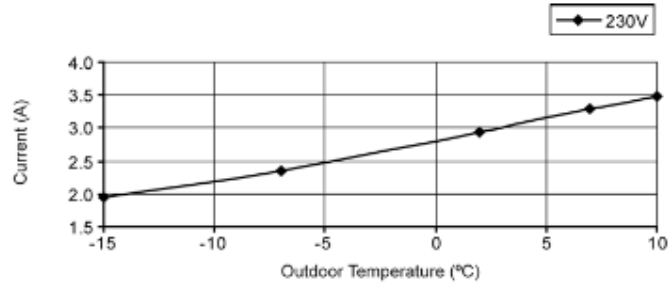
- Heating Characteristic

[Condition] Indoor temperature: 20/-°C

Piping Length: 5m

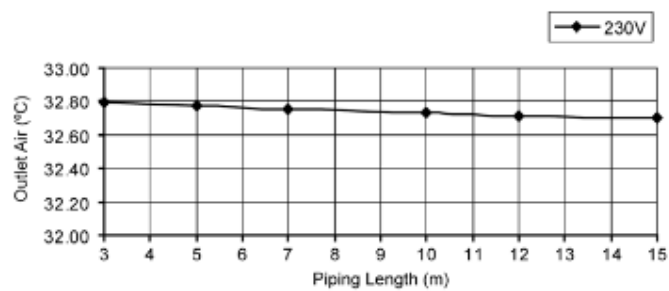
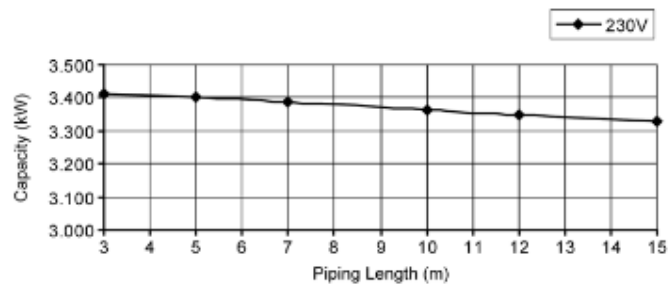
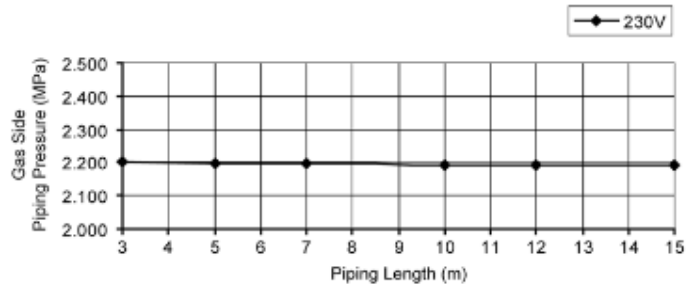
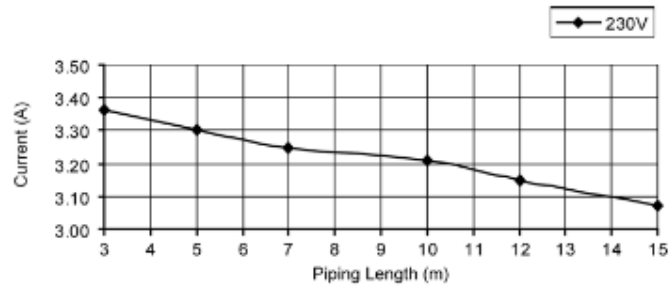
Remote condition: High fan speed, Heat 30°C

Comp. Hz: F_n



- Piping Length Characteristic

[Condition] Indoor/Outdoor temperature: 20/-°C, 7/6°C
 Remote condition: High fan speed, Heat 30°C
 Comp. Hz: F_n



2.2 CS-E12PKEA CU-E12PKEA

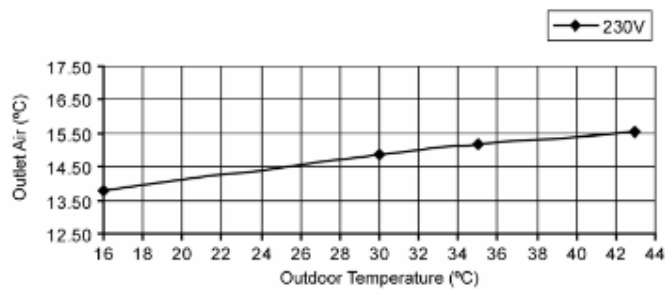
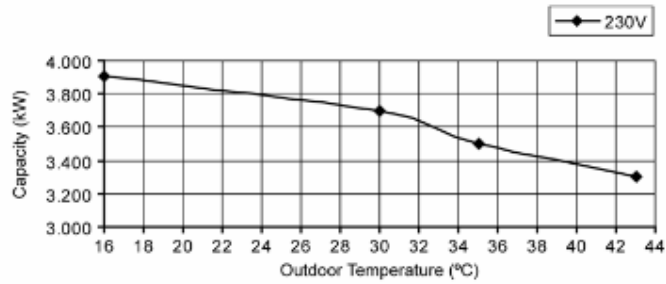
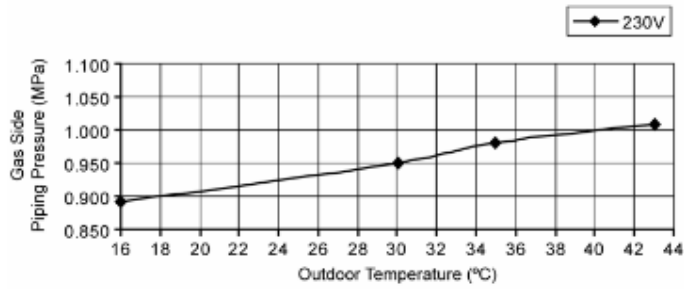
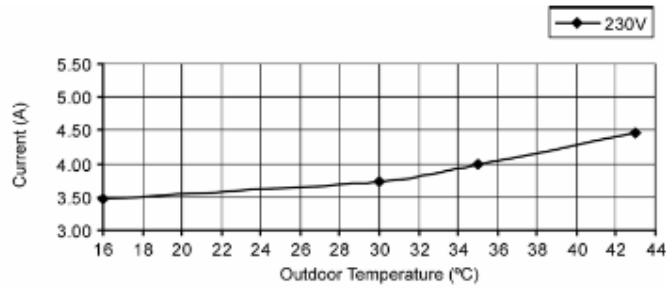
- Cooling Characteristic

[Condition] Indoor temperature: 27/19°C

Piping Length: 5m

Remote condition: High fan speed, Cool 16°C

Comp. Hz: F_c

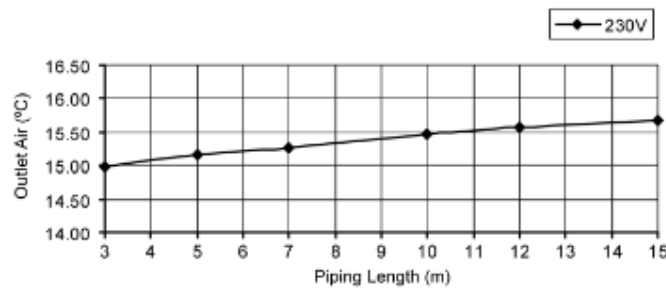
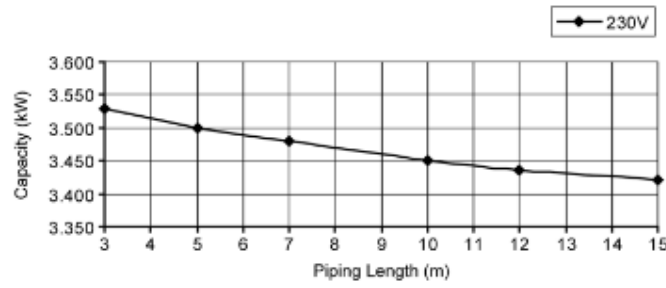
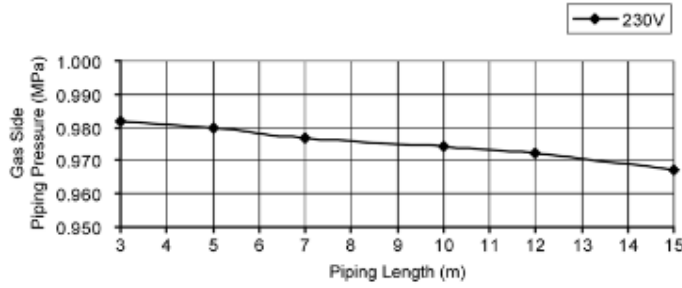
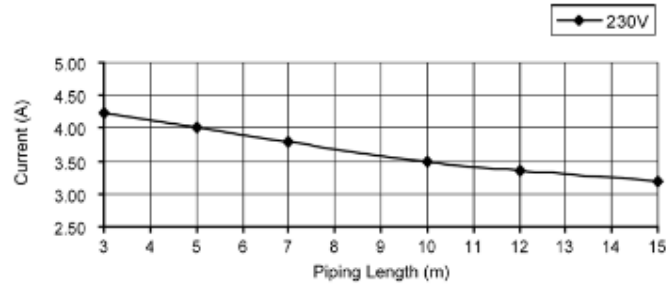


- Piping Length Characteristic

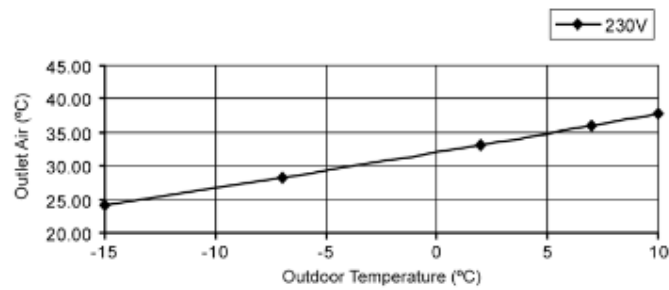
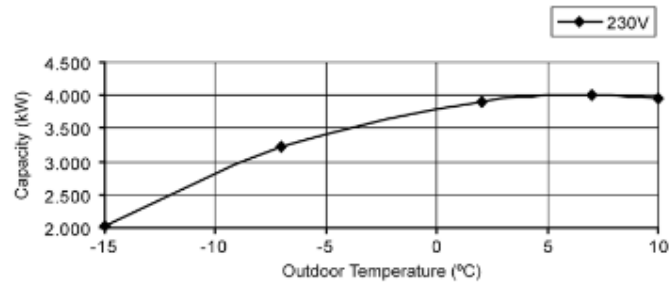
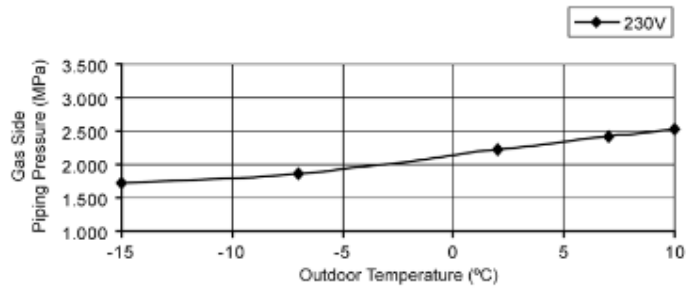
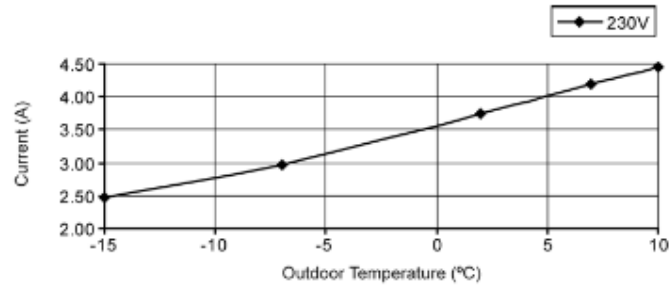
[Condition] Indoor/Outdoor temperature: 27/19°C, 35/24°C

Remote condition: High fan speed, Cool 16°C

Comp. Hz: F_c

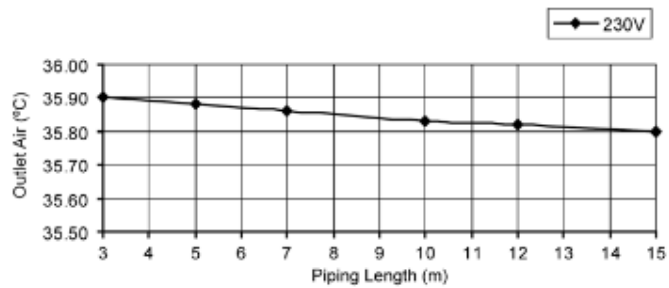
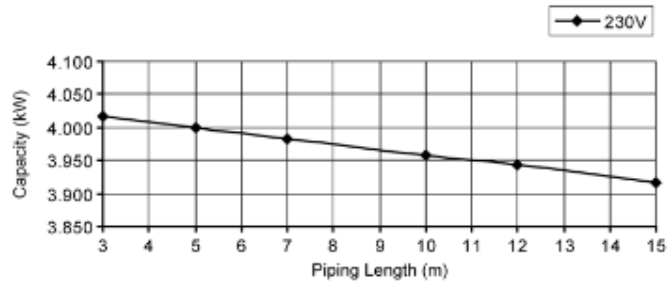
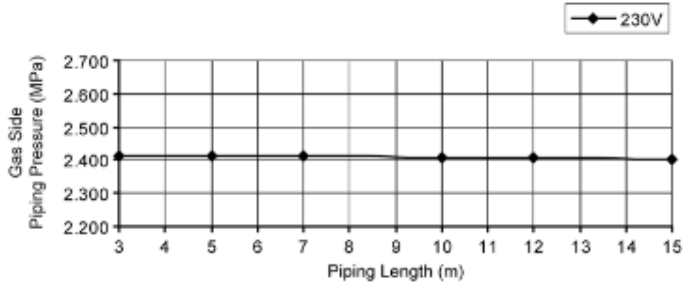
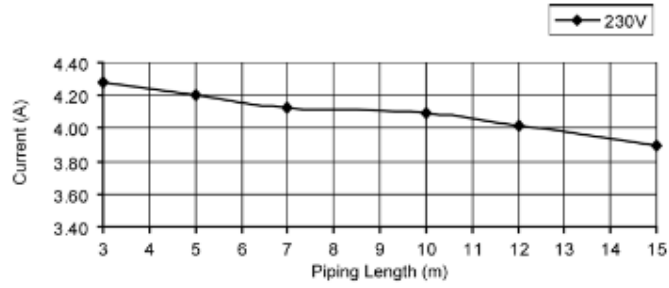


- Heating Characteristic
- [Condition] Indoor temperature: 20/-°C
Piping Length: 5m
Remote condition: High fan speed, Heat 30°C
Comp. Hz: F_n



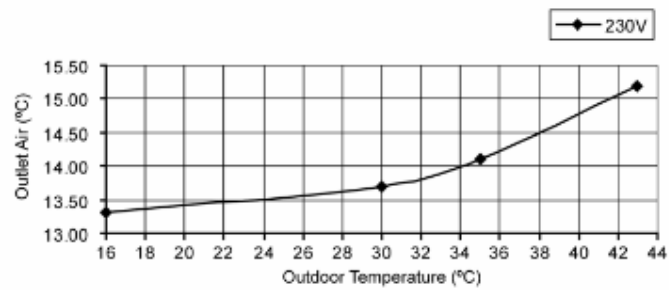
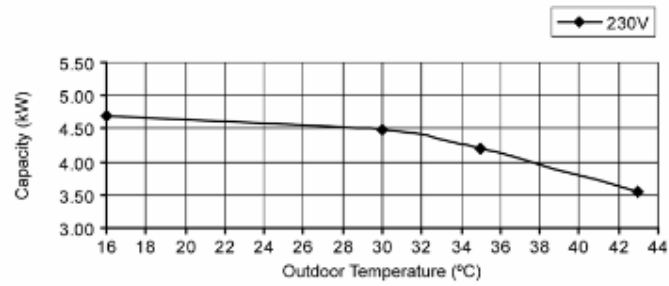
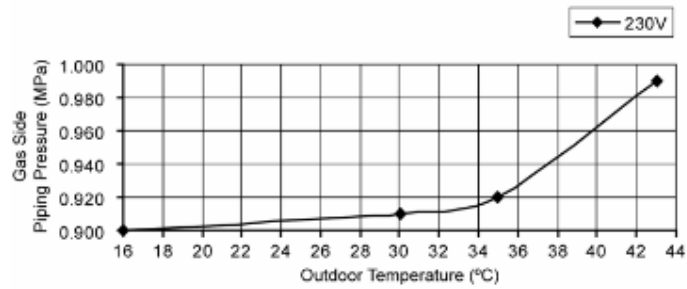
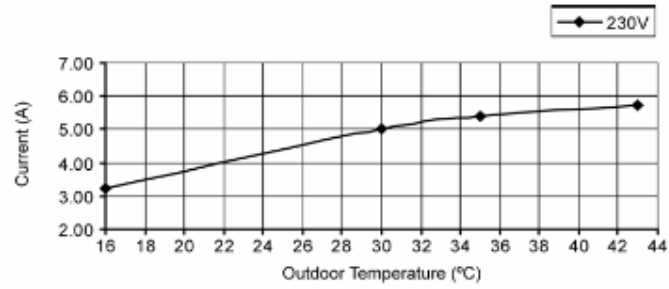
- Piping Length Characteristic

[Condition] Indoor/Outdoor temperature: 20/-°C, 7/6°C
 Remote condition: High fan speed, Heat 30°C
 Comp. Hz: F_n



2.3 CS-E15PKEA CU-E15PKEA

- Cooling Characteristic
[Condition] Indoor temperature: 27/19°C
Piping Length: 5m
Remote condition: High fan speed, Cool 16°C
Comp. Hz: F_c

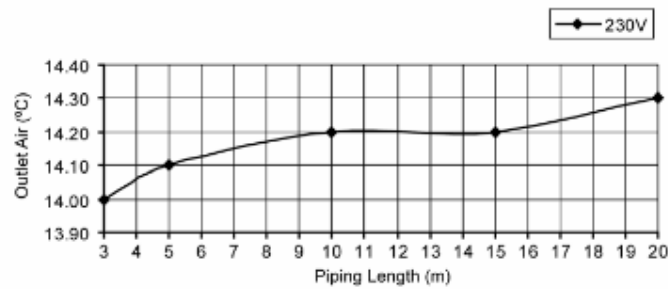
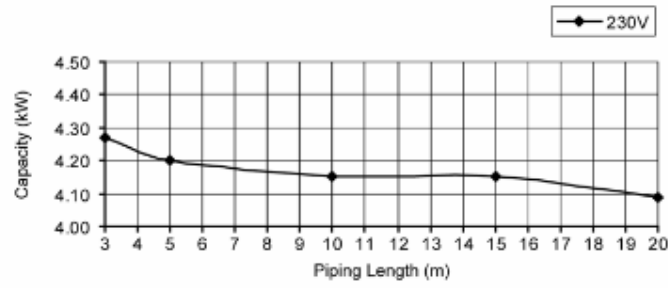
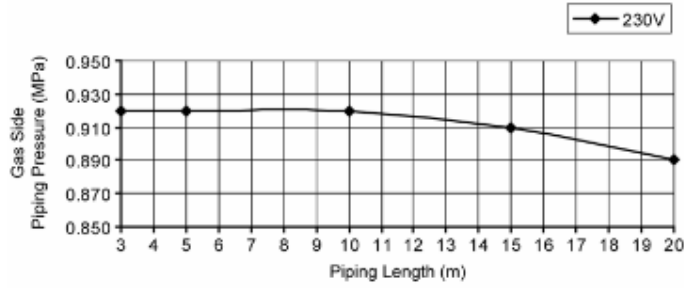
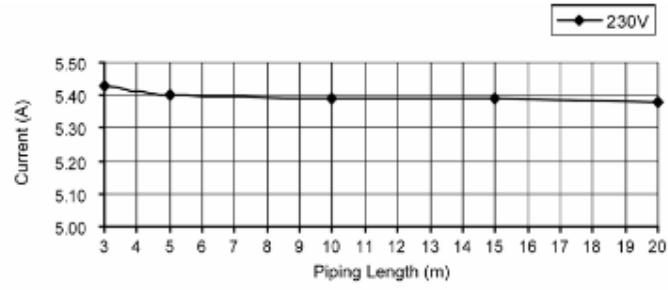


- Piping Length Characteristic

[Condition] Indoor/Outdoor temperature: 27/19°C, 35/-°C

Remote condition: High fan speed, Cool 16°C

Comp. Hz: F_c



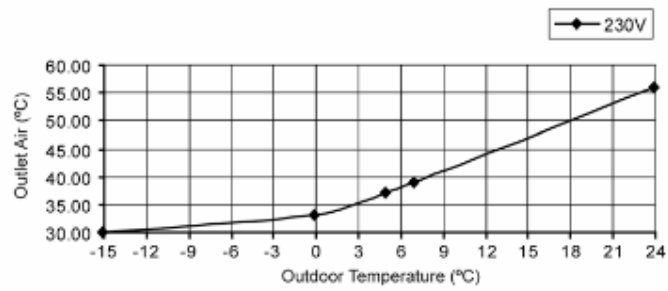
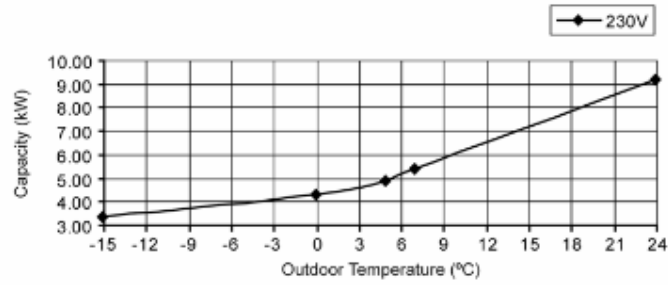
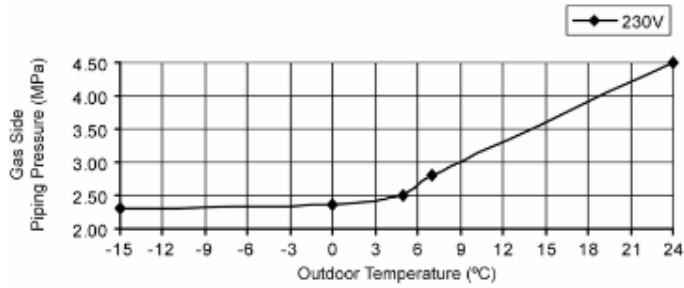
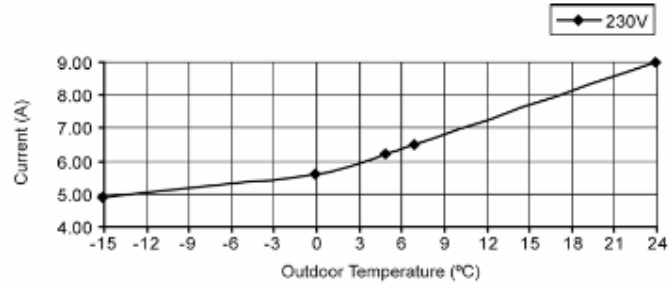
- Heating Characteristic

[Condition] Indoor temperature: 20/-°C

Piping Length: 5m

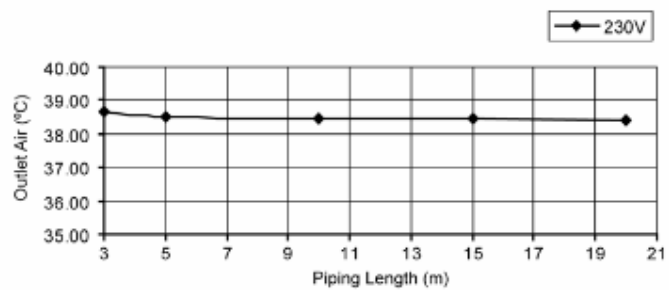
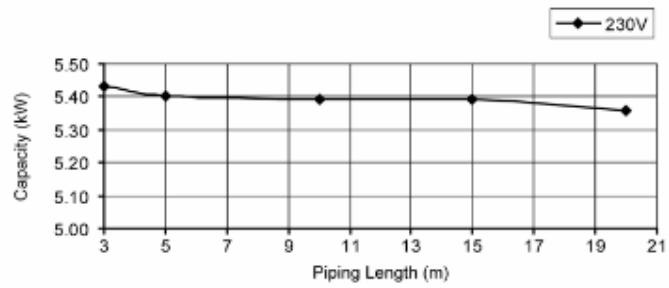
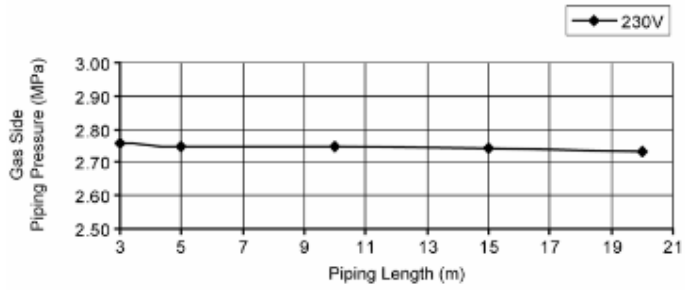
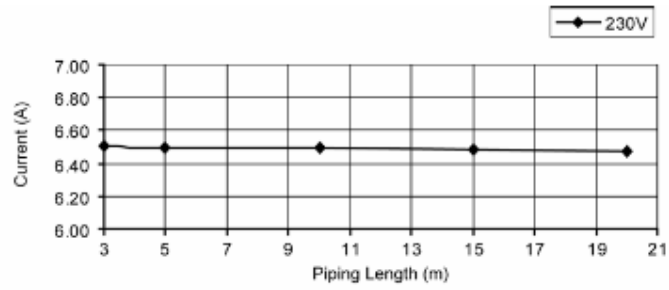
Remote condition: High fan speed, Heat 30°C

Comp. Hz: F_n



- Piping Length Characteristic

[Condition] Indoor/Outdoor temperature: 20/-°C, 7/6°C
 Remote condition: High fan speed, Heat 30°C
 Comp. Hz: F_n



2.4 CS-E18PKEA CU-E18PKEA

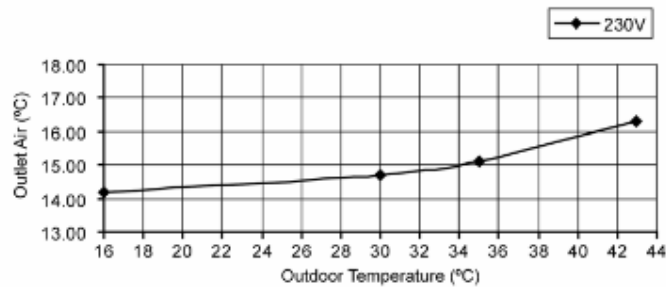
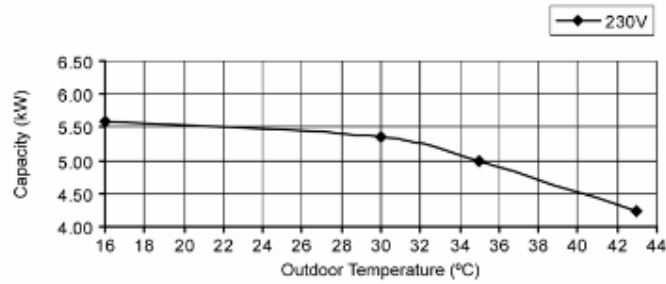
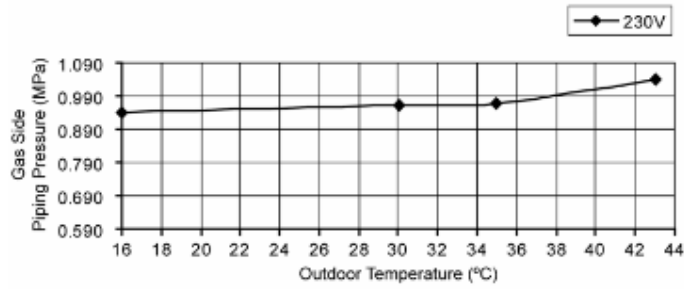
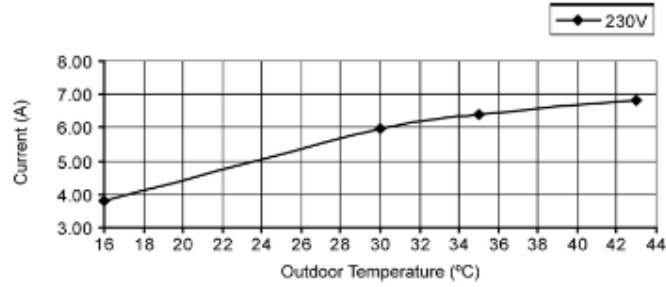
- Cooling Characteristic

[Condition] Indoor temperature: 27/19°C

Piping Length: 5m

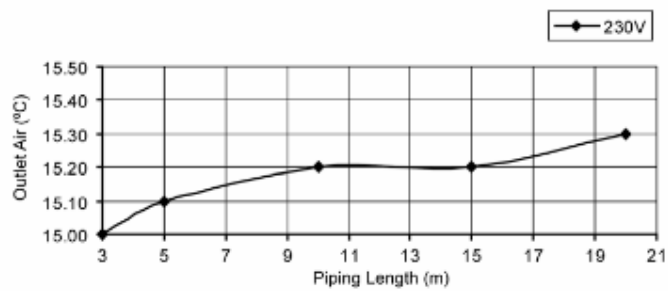
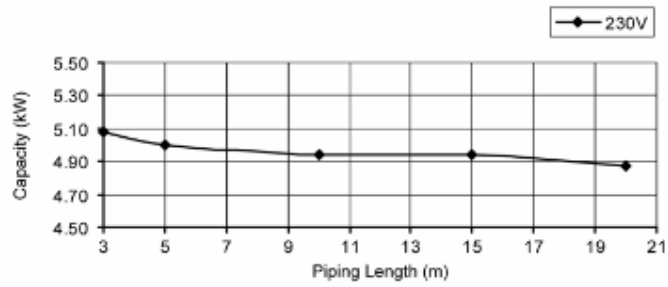
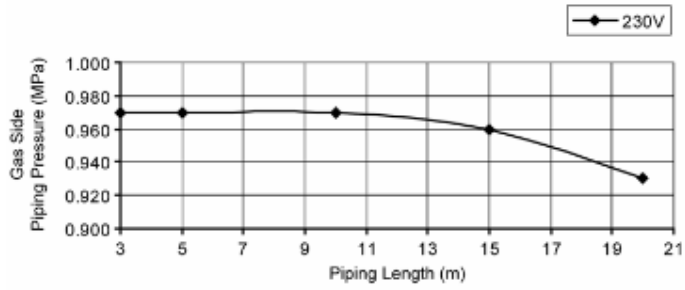
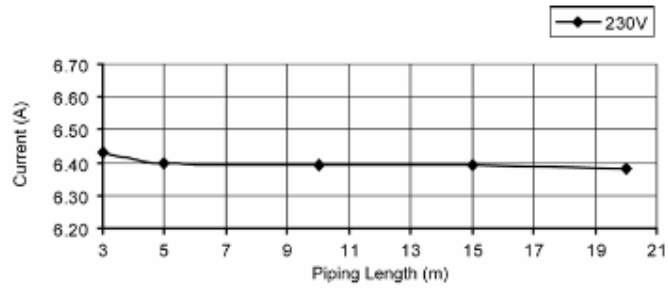
Remote condition: High fan speed, Cool 16°C

Comp. Hz: F_c



- Piping Length Characteristic

[Condition] Indoor/Outdoor temperature: 27/19°C, 35/-°C
 Remote condition: High fan speed, Cool 16°C
 Comp. Hz: F_c



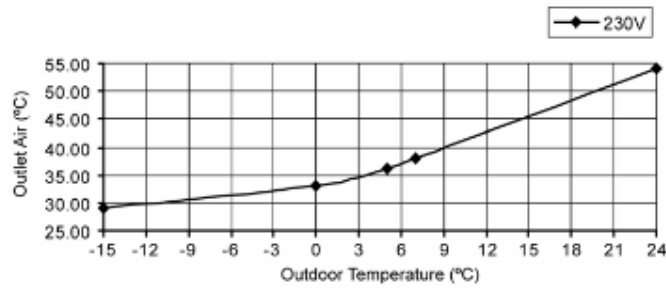
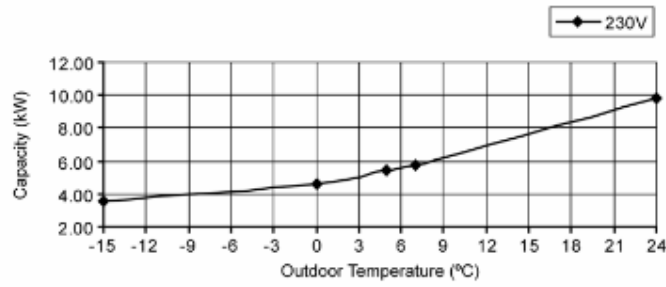
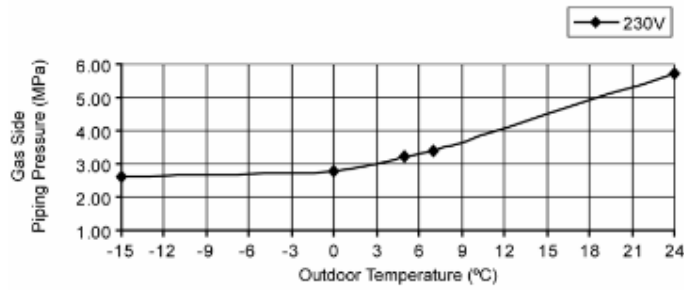
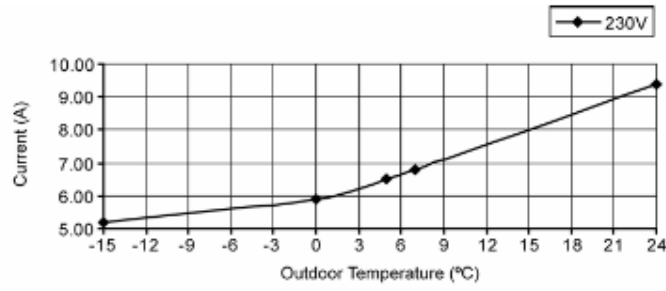
- Heating Characteristic

[Condition] Indoor temperature: 20/-°C

Piping Length: 5m

Remote condition: High fan speed, Heat 30°C

Comp. Hz: F_h



- Piping Length Characteristic

[Condition] Indoor/Outdoor temperature: 20/-°C, 7/6°C
 Remote condition: High fan speed, Heat 30°C
 Comp. Hz: F_n

