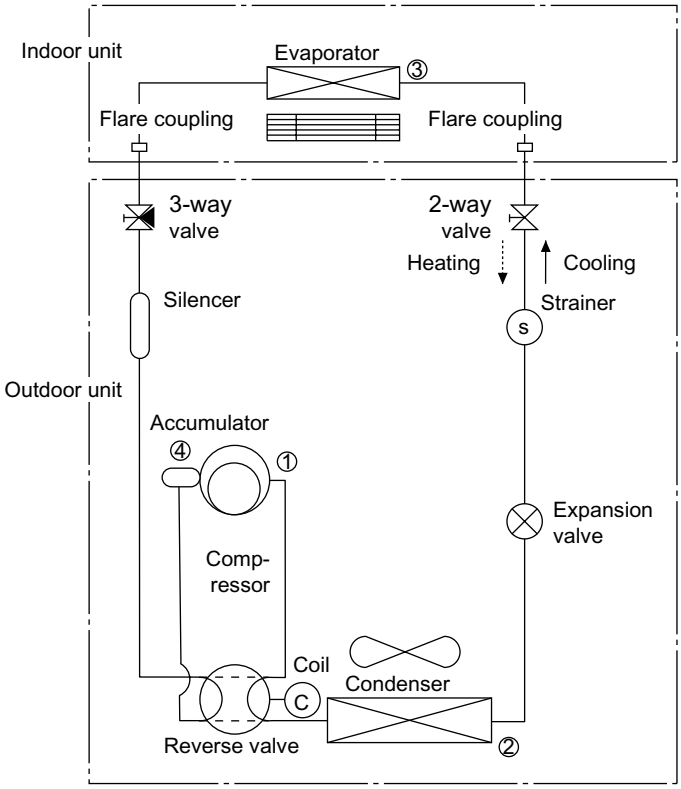
CHAPTER 4. REFRIGERATION CYCLE

[1] FLOW FOW REFRIGERANT



[2] STANDARD CONDITION

	Indoor side		Outdoor side	
	Dry-bulb Temp. (°C)	Relative Humidity (%)	Dry-bulb Temp. (°C)	Relative Humidity (%)
Cooling	27	47	35	40
Heating	20	–	7	87

* REFRIGERANT PIPE LENGTH 5.0m

[3] TEMPERATURE AT EACH PART AND PRESSURE IN 3-WAY VALVE

1 AY-XP9GHR

Model	AY-XP9GHR			
Operation model	MAX.		TEST RUN	
	Cool	Heat	Cool	Heat
Hz No.	57	more than 90	42	42
1	67	73	63	55
2	38	16	37	7
3	14	34	14	26
4	13	2	17	5
3-way valve pressure (MPaG)	1.17	3.28	1.25	2.25

2,AY-XP12GHR

Model	AY-XP12GHR			
Operation model	MAX.		TEST RUN	
	Cool	Heat	Cool	Heat
Hz No.	83	more than 93	42	42
1	76	81	56	55
2	40	16	39	7
3	15	33	15	25
4	10	3	16	6
3-way valve pressure (MPaG)	1.08	3.05	1.29	2.15

[4] PERFORMANCE CURVES

NOTE: 1) Indoor fan speed: Hi

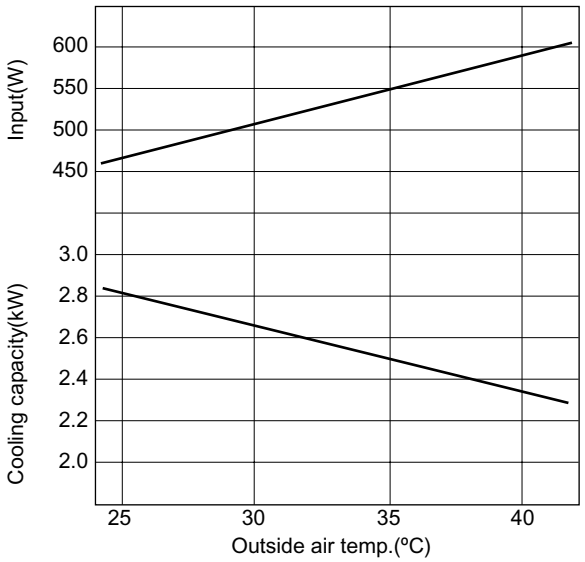
2) Vertical adjustment louver "45°", Horizontal adjustment louver "front"

3) Indoor air temp. : Cooling 27°C, Heating 20°C

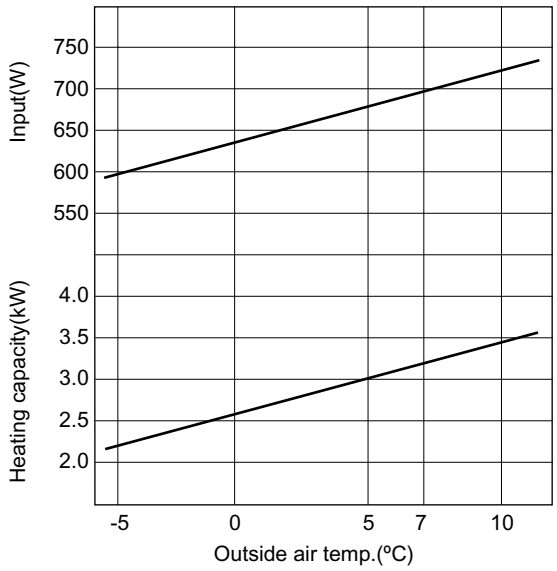
4) Power source : 230V, 50Hz

1. AY-XP9GHR

1.1. At Cooling

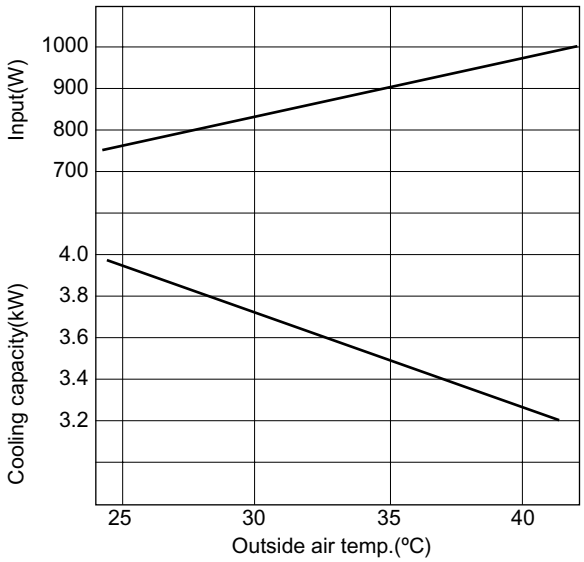


1.2. At Heating



2. AY-XP12GHR

2.1. At Cooling



2.2. At Heating