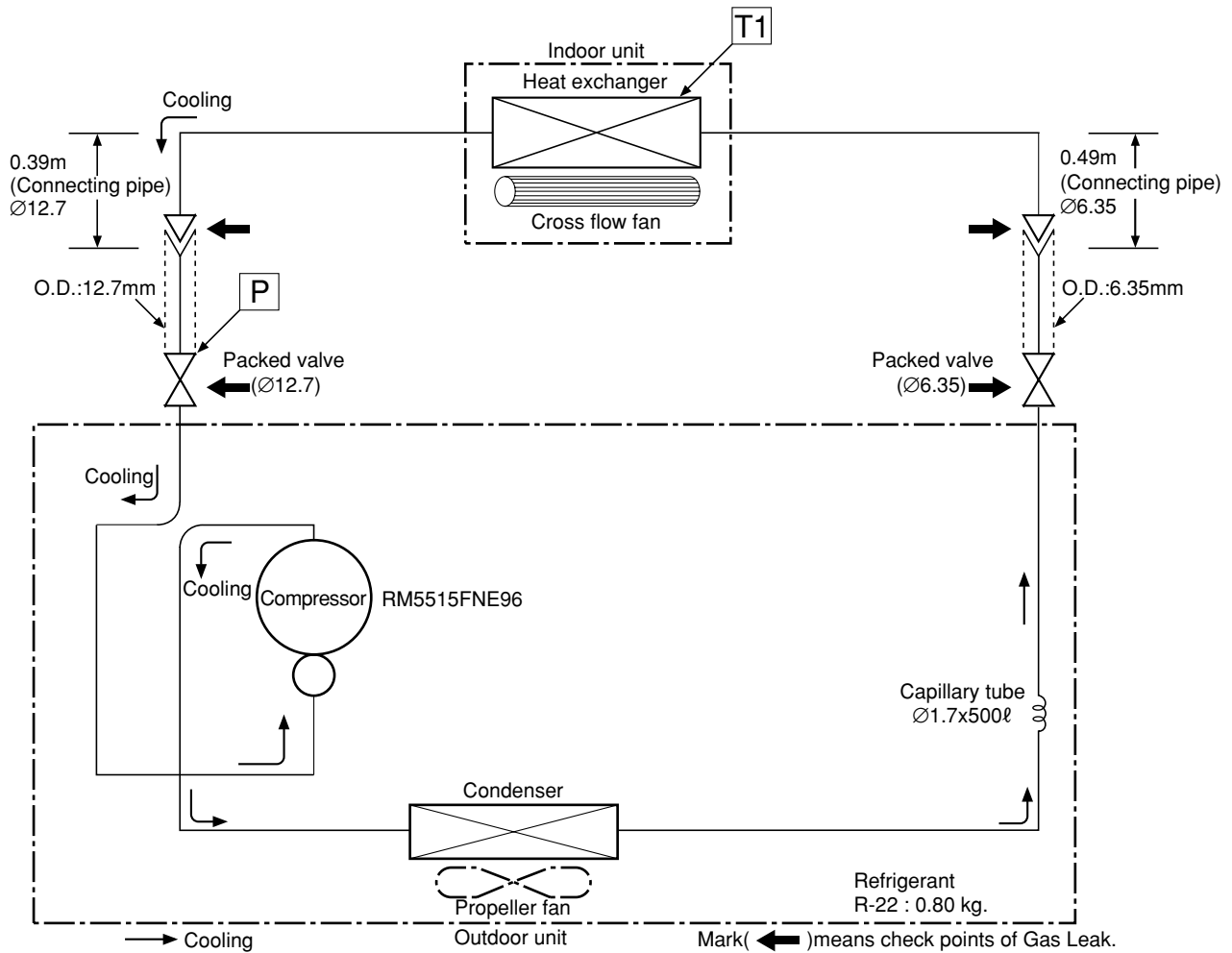


## 5. REFRIGERATION CYCLE DIAGRAM

### 5-1. RAS-13UKP-HX / RAS-13UA-HX

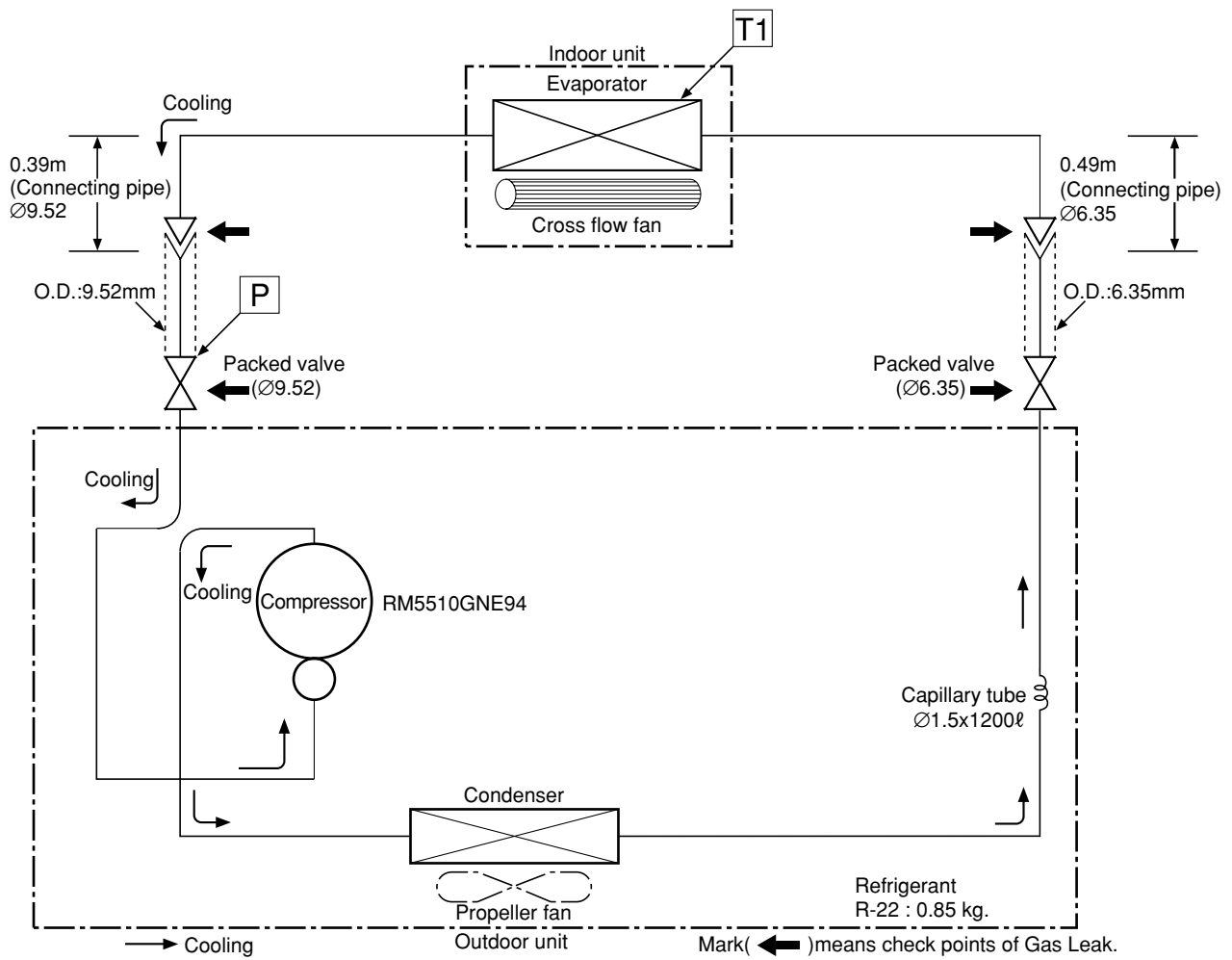


50Hz		Standard pressure <b>P</b> (MPaG)	Surface temp. of heat exchanger interchanging pipe <b>T1</b> (°C)	Fan speed (indoor)	Ambient temp. conditions DB/WB (°C)	
					Indoor	Outdoor
Cooling	Standard	0.48	13.0	High	27/19	35/24
	Overload	0.60	18.0	High	32/23	43/26
	Low temperature	0.42	2.0	Low	21/15	21/15

**Note :**

- Measure the heat exchanger temperature at the center of U-bend. (By means of TC sensor)

5-2. RAS-10UKP-HX / RAS-10UA-HX

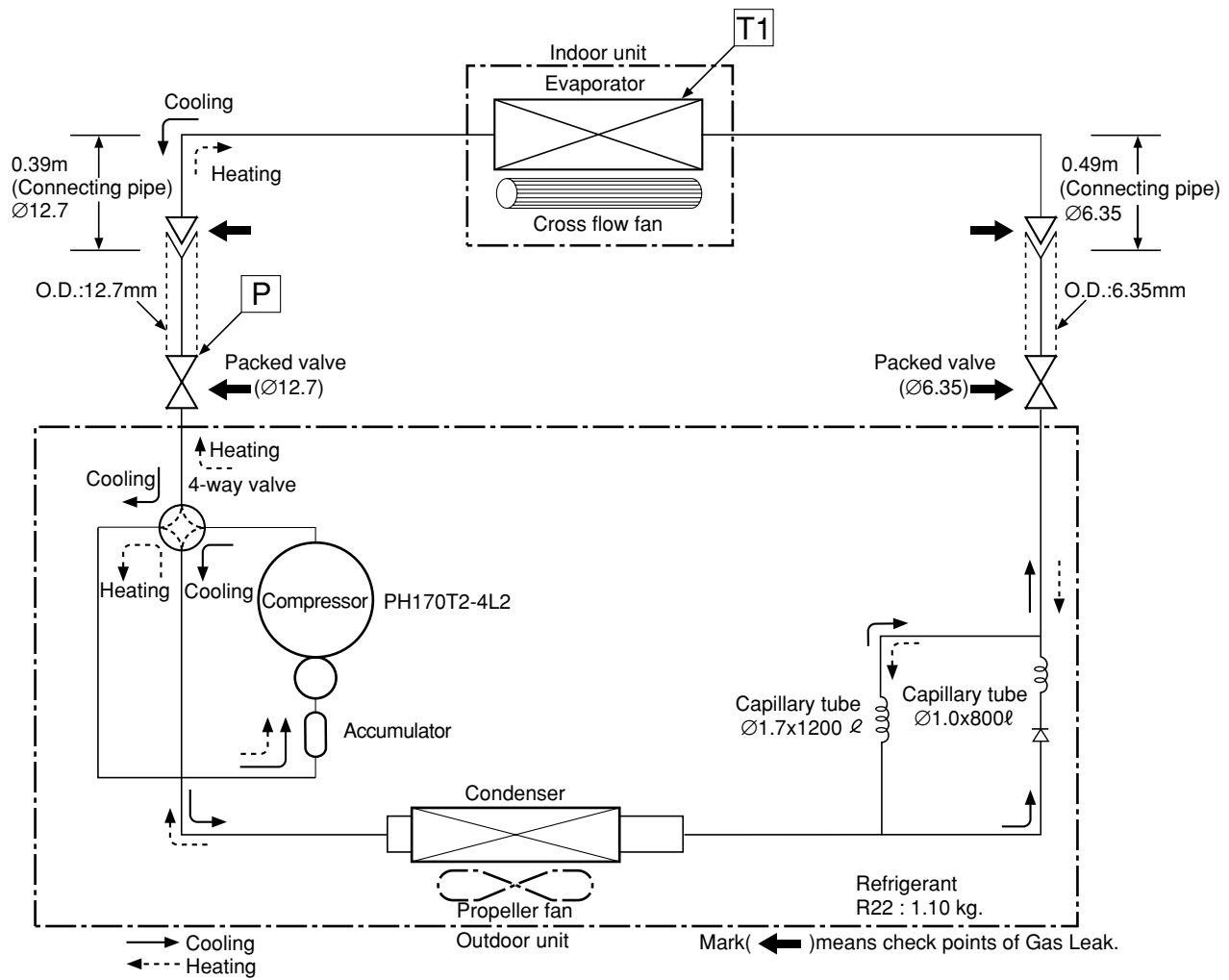


50Hz		Standard pressure [P] (MPaG)	Surface temp. of heat exchanger interchanging pipe [T1] (°C)	Fan speed (indoor)	Ambient temp. conditions DB/WB (°C)	
					Indoor	Outdoor
Cooling	Standard	0.58	13.0	High	27/19	35/24
	Overload	0.64	18.0	High	32/23	43/26
	Low temperature	0.39	2.0	Low	21/15	21/15

**Note :**

- Measure the heat exchanger temperature at the center of U-bend. (By means of TC sensor)

5-3. RAS-13UKH-E / RAS-13UAH-E

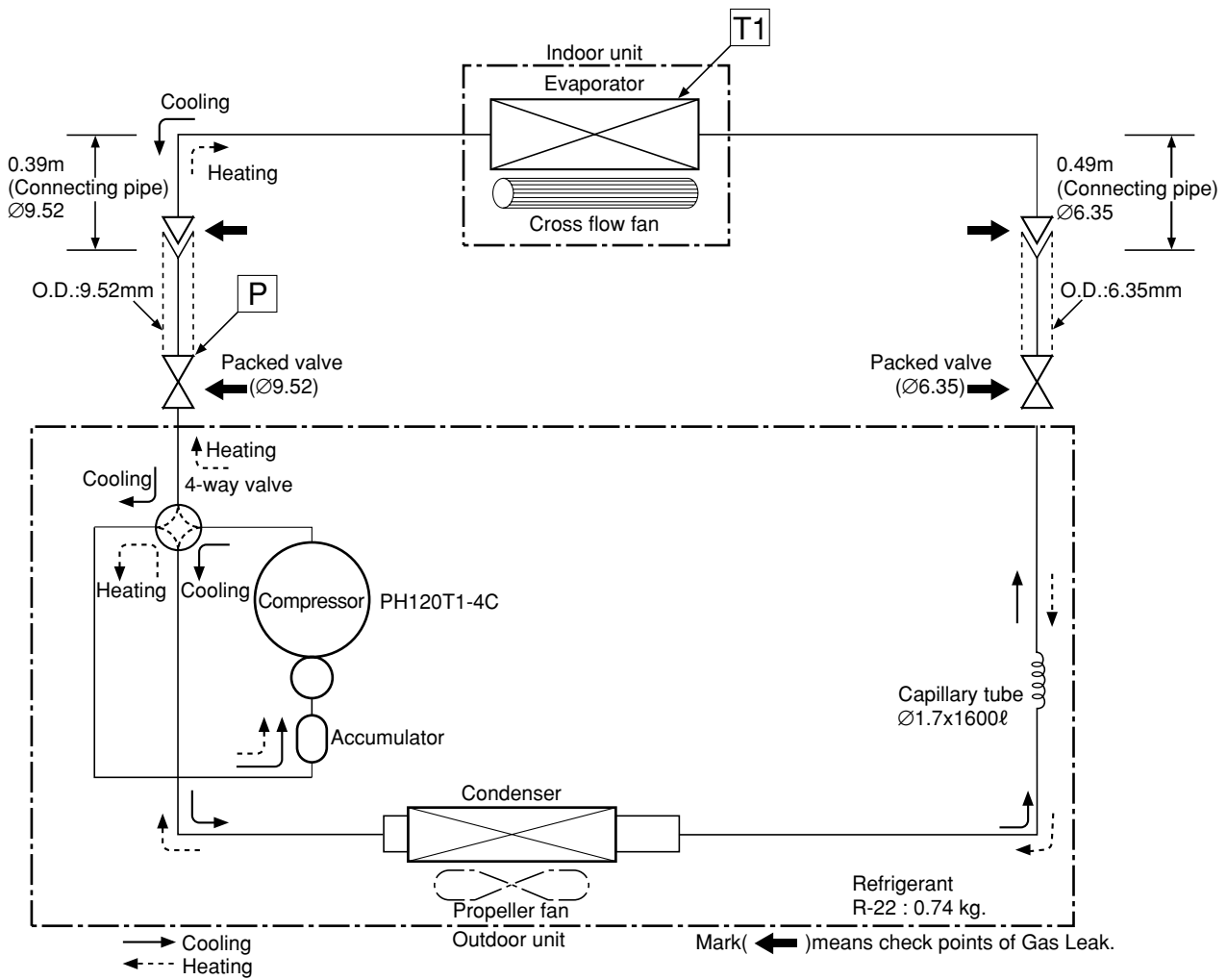


50Hz		Standard pressure [P] (MPaG)	Surface temp. of heat exchanger interchanging pipe [T1] (°C)	Fan speed (indoor)	Ambient temp. conditions DB/WB (°C)	
					Indoor	Outdoor
Heating	Standard	1.74	43.0	High	20/—	7/6
	Overload*1	1.9 ~ 2.3	52.0 ~ 59.0	Low	27/—	24/18
	Low temperature	1.3	35.0	High	20/—	-10/-10
Cooling	Standard	0.45	10.0	High	27/19	35/24
	Overload	0.58	14.0	High	32/23	43/26
	Low temperature	0.4	2.0	Low	21/15	21/15

**Note :**

- Measure the heat exchanger temperature at the center of U-bend. (By means of TC sensor)
- \*1 • During heating overload operation, a value for the high temperature limit control operation is included.

5-4. RAS-10UKH-E / RAS-10UAH-E



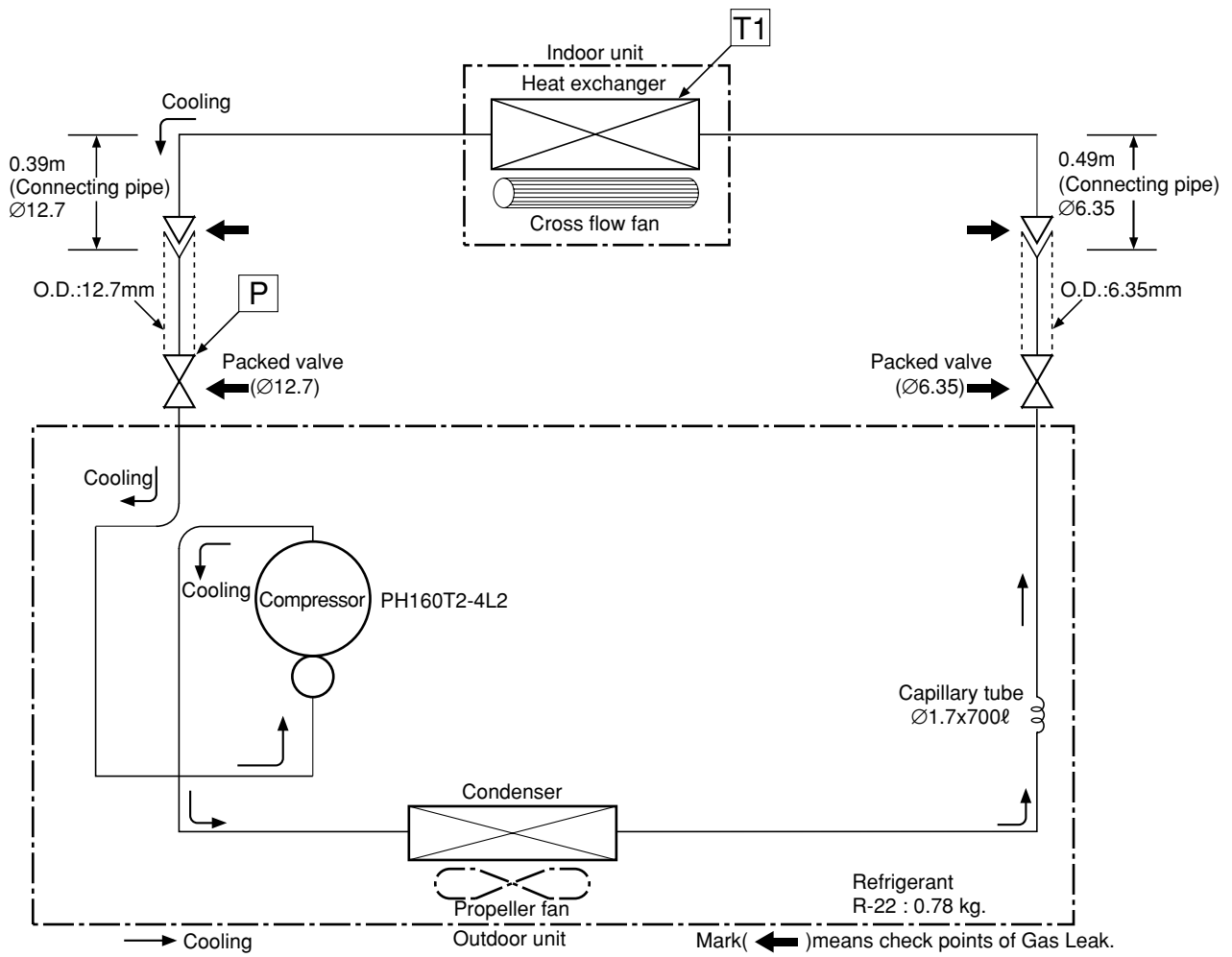
50Hz		Standard pressure [P] (MPaG)	Surface temp. of heat exchanger interchanging pipe [T1] (°C)	Fan speed (indoor)	Ambient temp. conditions DB/WB (°C)	
					Indoor	Outdoor
Heating	Standard	1.55	40.0	High	20/-	7/6
	Overload*1	1.9 ~ 2.1	52.0 ~ 59.0	Low	27/-	24/18
	Low temperature	1.3	35.0	High	20/-	-10/-10
Cooling	Standard	0.40	12.0	High	27/19	35/24
	Overload	0.62	15.0	High	32/23	43/26
	Low temperature	0.35	2.0	Low	21/15	21/15

**Note :**

- Measure the heat exchanger temperature at the center of U-bend. (By means of TC sensor)

\*1 • During heating overload operation, a value for the high temperature limit control operation is included.

5-5. RAS-13UK-E / RAS-13UA-E

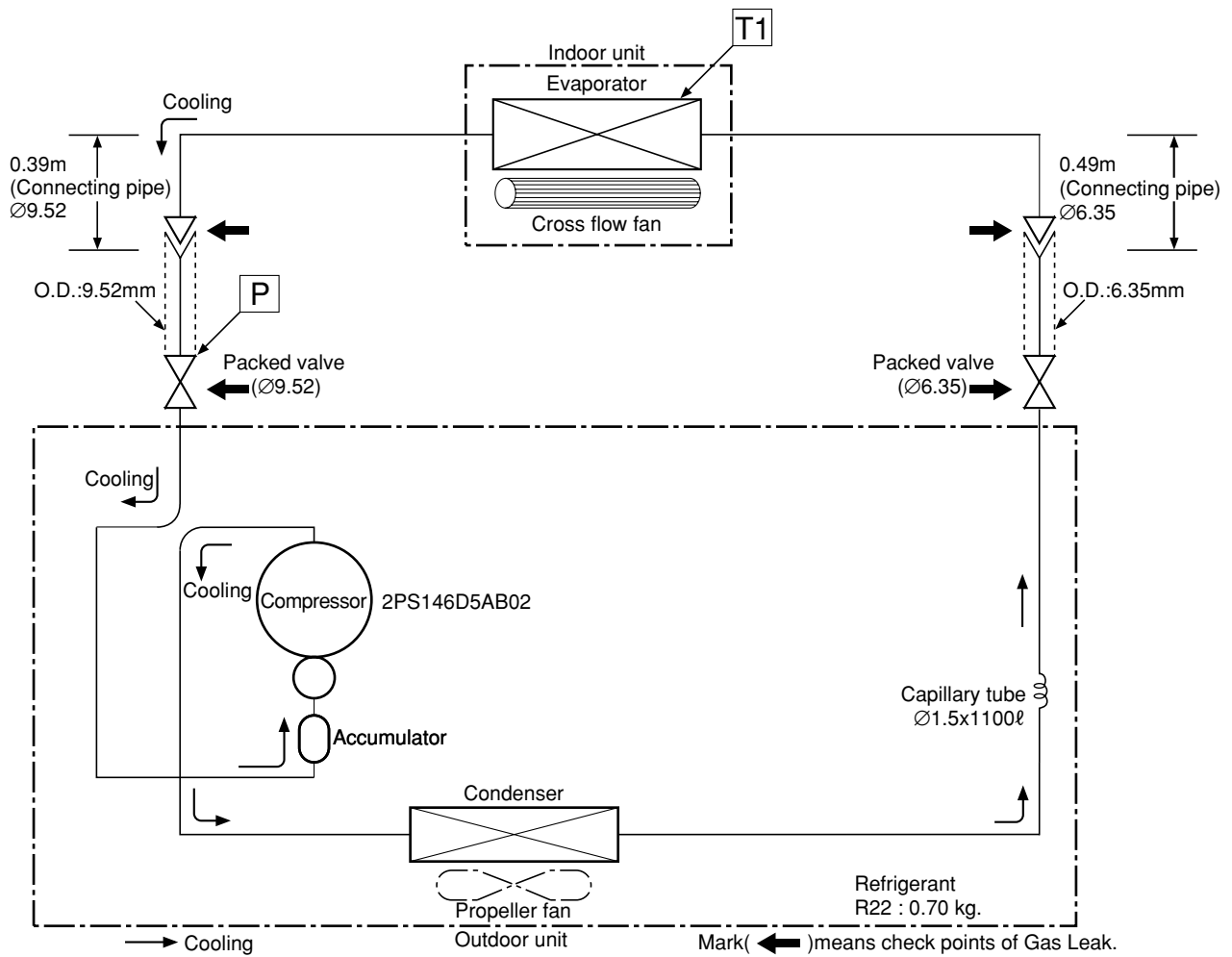


50Hz		Standard pressure <b>P</b> (MPaG)	Surface temp. of heat exchanger interchanging pipe <b>T1</b> (°C)	Fan speed (indoor)	Ambient temp. conditions DB/WB (°C)	
					Indoor	Outdoor
Cooling	Standard	0.45	13.0	High	27/19	35/24
	Overload	0.62	18.0	High	32/23	43/26
	Low temperature	0.40	2.0	Low	21/15	21/15

**Note :**

- Measure the heat exchanger temperature at the center of U-bend. (By means of TC sensor)

5-6. RAS-10UK-E / RAS-10UA-E



50Hz		Standard pressure <b>P</b> (MPaG)	Surface temp. of heat exchanger interchanging pipe <b>T1</b> (°C)	Fan speed (indoor)	Ambient temp. conditions DB/WB (°C)	
					Indoor	Outdoor
Cooling	Standard	0.54	13.0	High	27/19	35/24
	Overload	0.62	18.0	High	32/23	43/26
	Low temperature	0.38	2.0	Low	21/15	21/15

**Note :**

- Measure the heat exchanger temperature at the center of U-bend. (By means of TC sensor)