### 1 Product specifications

### (1) Heating-only unit

Model name		PROHP-3A-H	PROHP-6A-H	PROHP-12A-H	
Heating*1	Heating ability (kW)	11.5	22.3	43.5	
	Power consumption (kW)	3.9	7.5	14.8	
	Heating COP*2	2.9	3.0	2.9	
Refrigerant		R134a			
External dimensions (mm) (W×D×H)		750×700×1,535	1,300×700×1,900	1,600×700×1,900	
Weight	(kg)	250	550	600	

#### (2) Cooling and heating unit

Model name		РКОНР-ЗА-СН	PROHP-6A-CH	PROHP-12A-CH
Heating	Heating ability (kW)	11.5	22.3	43.5
	Power consumption (kW)	3.9	7.5	14.8
	Heating COP	2.9	3.0	2.9
Cooling*3	Cooling ability (kW)	10.6	20.5	39.7
	Power consumption (kW)	2.1	4.0	7.9
	Cooling COP*2	5.0	5.1	5.0
Simultaneous heating and cooling*4	Cooling ability (kW)	7.7	15.0	29.1
	Heating ability (kW)	11.3	21.8	42.5
	Power consumption (kW)	3.7	7.1	14.0
	Total COP*5	5.1	5.2	5.1
Refrigerant		R134a		
External dimensions (mm) (W×D×H)		750×700×1,535	1,300×700×1,900	1,600×700×1,900
Weight (kg)		300	600	700

<sup>\*1</sup> Under the following conditions: External dry-bulb temperature: 25°C; external wet bulb temperature: 21°C; cleaning liquid inlet temperature: 60°C; cleaning liquid outlet temperature: 65°C.

<sup>\*2</sup> Heating COP = Heating ability (kW) / Power consumption (kW); Cooling COP = Cooling ability (kW) / Power consumption (kW)

<sup>\*3</sup> Under the following conditions: External dry bulb temperature: 25°C; cold water inlet temperature: 20°C; cold water outlet temperature: 15°C

<sup>\*4</sup> Under the following conditions: Cold water inlet temperature: 20°C; cold water outlet temperature: 15°C; cleaning liquid inlet temperature: 60°C; cleaning liquid outlet temperature: 65°C

<sup>\*5</sup> Total COP = {Heating ability (kW) + Cooling ability (kW)} / Power consumption (kW)

# 2 External appearance of developed heat pump

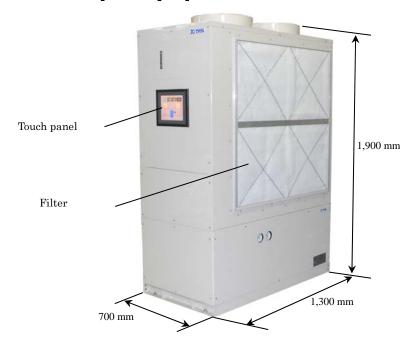
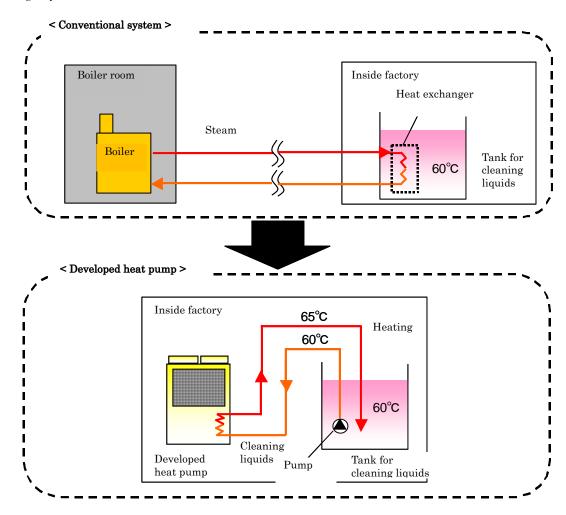


Figure 1 External appearance of developed heat pump (PROHP-6A-CH)

# 3 Examples of introduction of new heat pump

(1) For heating only



## (2) For cooling and heating

