



# Pas Reform Process water chiller

To provide economical cooling for incubators and  
climate control equipment



**Royal Pas Reform**  
Integrated Hatchery Solutions



# Process water chiller

## Benefits

Pas Reform's process water chiller uses refrigerants to provide cooling for setters and hatcher. Chilled water may also be used to circulate through cooling coils in HVAC units. The refrigeration circuit consists of compressor(s), condenser(s), thermal expansion valve and evaporator(s). Together, these components remove heat from a process load to provide consistent setpoint temperatures 24 hours a day, seven days a week in an energy efficient design with low operational costs that respects the environment. Each part is specially selected for maximum acoustic comfort during operation, while keeping durability and reliability at high levels. When equipped with a heat recovery unit, "waste" heat can also be re-used to (pre) heat incoming air from air handling units. Depending on local climate conditions, this may reduce heat production capacity substantially.

## How it works

- The process water chiller removes heat from incoming water via an absorption recirculation cycle in a closed loop system, consisting of R410a cooling liquid
- Chilled process water is collected in a buffer tank, from where it can be supplied throughout the hatchery for cooling purposes
- In combination with a heat recovery system (optional), the heat produced is transferred to a heat pump, from where it can be reused in, for example the air handling unit

## Related products

- ▶ Buffer tank and pump set
- ▶ SmartSetPro™
- ▶ SmartHatchPro™
- ▶ Air handling unit
- ▶ Heat recovery

## Technical Specifications

Type	Cooling capacity*	Installed power	Flow rate m <sup>3</sup> /hr	Refrigerant	Weight	Sound level	Dimensions (LxWxH)
PWC-110	> 110 kW	> 35.4 kW	> 19.10	> R410a	> 1306 kg	> 56 dB(A)	> 2190 x 2130 x 2120 mm
PWC-135	> 135 kW	> 43.8 kW	> 23.80	> R410a	> 1627 kg	> 56 dB(A)	> 2190 x 2130 x 2120 mm
PWC-150	> 150 kW	> 47.0 kW	> 26.70	> R410a	> 1875 kg	> 56 dB(A)	> 2740 x 2130 x 2120 mm
PWC-210	> 210 kW	> 62.3 kW	> 35.60	> R410a	> 2925 kg	> 59 dB(A)	> 2820 x 2200 x 2260 mm
PWC-230	> 230 kW	> 71.6 kW	> 40.60	> R410a	> 2965 kg	> 60 dB(A)	> 2820 x 2200 x 2260 mm
PWC-280	> 280 kW	> 80.4 kW	> 48.00	> R410a	> 3095 kg	> 60 dB(A)	> 2820 x 2200 x 2260 mm
PWC-320	> 320 kW	> 99.8 kW	> 56.50	> R410a	> 3335 kg	> 61 dB(A)	> 2820 x 2200 x 2260 mm
PWC-370	> 370 kW	> 111.0 kW	> 63.20	> R410a	> 3760 kg	> 63 dB(A)	> 4185 x 2200 x 2260 mm
PWC-420	> 420 kW	> 128.7 kW	> 72.00	> R410a	> 4085 kg	> 65 dB(A)	> 4185 x 2200 x 2260 mm
PWC-480	> 480 kW	> 149.0 kW	> 82.90	> R410a	> 4620 kg	> 67 dB(A)	> 5550 x 2200 x 2260 mm
PWC-540	> 540 kW	> 164.2 kW	> 93.10	> R410a	> 5335 kg	> 64 dB(A)	> 5550 x 2200 x 2260 mm
PWC-600	> 600 kW	> 173.4 kW	> 104.30	> R410a	> 5713 kg	> 67 dB(A)	> 6915 x 2200 x 2260 mm
PWC-700	> 700 kW	> 218.8 kW	> 120.40	> R410a	> 6276 kg	> 68 dB(A)	> 6915 x 2200 x 2260 mm

\*15 °C/10 °C. Air 35 °C

Due to continuous product development specifications are subject to change without prior notice. Version 2020\_02



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