

Panasonic

AQUAREA

Panasonic Pro-HT DHW System

TEAGASC February 22nd 2022



heating & cooling solutions

PRO-HT Tank for Domestic Hot Water (DHW)

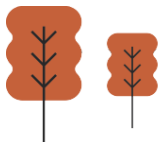


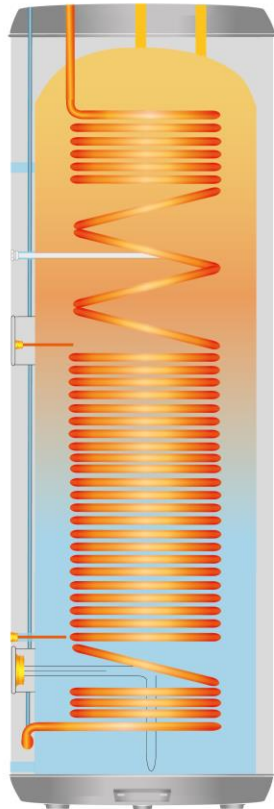
PAW-VP750/1000LDHW

PRO-HT Tank for Cooling/Heating



PAW-VP380L

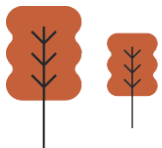




PRO-HT Tanks are water tanks with integrated condensing coil, enabling a direct heat transfer from the refrigerant in the coil to the water in the tank. They are designed for the combination with specific PACi and ECOi outdoor units.

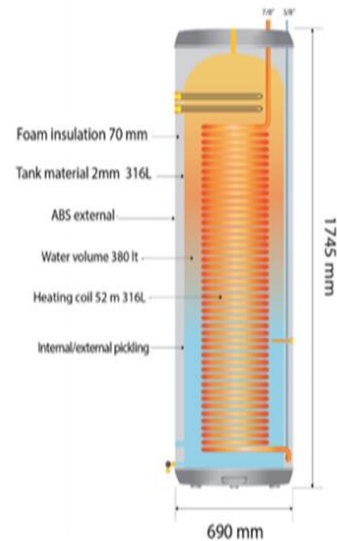
There are 2 types of these tanks:

- for domestic hot water applications
- for heating/cooling applications



PRO-HT Tank_ Heating & Cooling Type : PAW-VP380L

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- Water volume 380L
- Foam insulation 70 mm
- Heating coil 52m, 316L
- Internal /external pickling
- Tank material 2mm 316L
- ABS external

What is pickling?

Pickling is a metal surface treatment used to remove impurities, such as stains, inorganic contaminants, rust or scale from ferrous metals, copper, precious metals and aluminium alloys.



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PRO-HT Tank DHW type : PAW-VP1000/750DHW

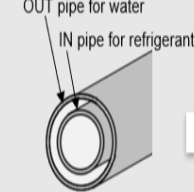
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- Water volume 1000/750L
- Heating coil 63m for 1000L
- Internal /external pickling
- Foam insulation 70 mm for 200L & 500L, 100 mm for the 750L & 1000L
- Tank material 2mm 316L
- ABS external

PIPE-IN-PIPE Heat Exchanger with Nano technology

Conventional Double pipe



New Double pipe
(used in PAW-VP***LDHW)

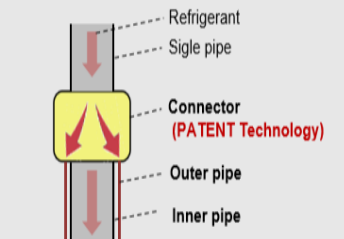


Clearance ONLY \approx 0,1mm

92% of the surface of inlet & outlet pipe touching

BEST HEAT TRANSFER

PATENT Technology for Heat Exchanger

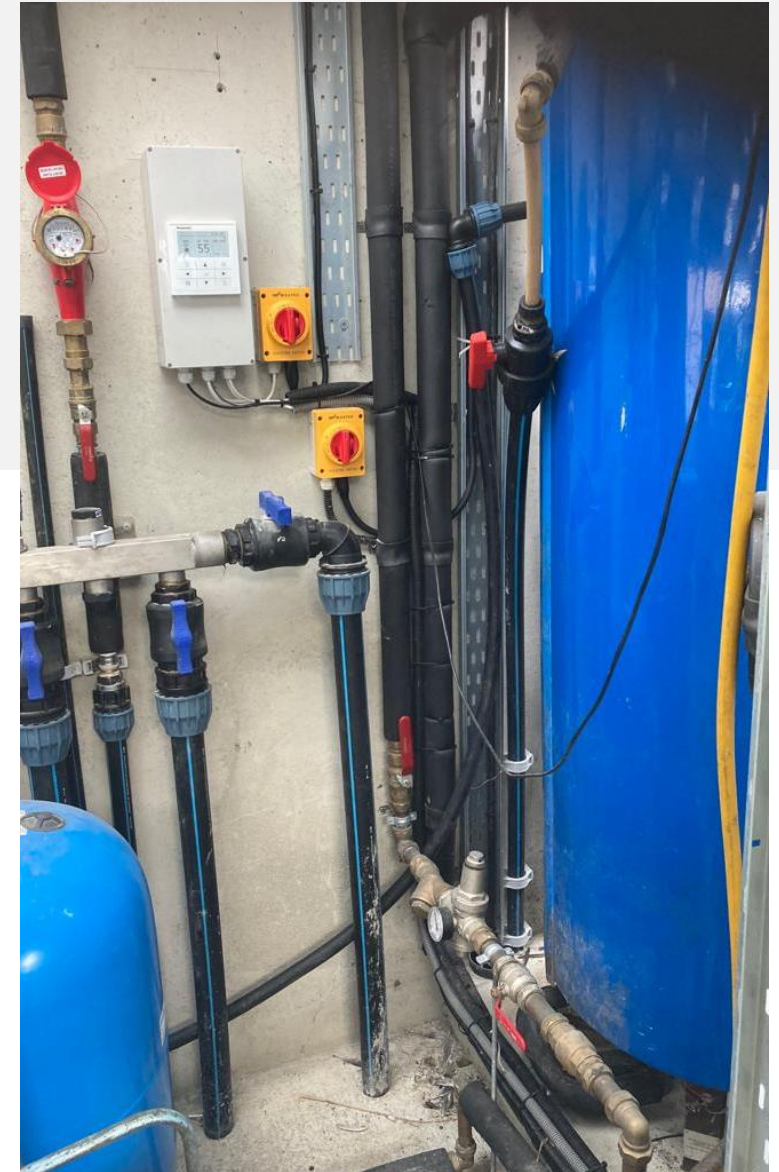


The connector separates the superheat from the refrigerant condensation process, and transfer it to the outer pipe. This technology produce up to 75 degrees water temperature.



Michael O'Donovan Dairy Farm Pro-HT Installation, Clonakilty, Cork

- This Panasonic Pro-HT system was installed last year. The unit is designed to water target temperatures of 85 deg C.
- The Dairy parlour is using 120.0000 of Hot Water every 4 months, at a cost of €580 plus vat.
- The cylinder is A rated with 316 stainless steel and a magnesium anode to offer additional protection.



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