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ASAP

FRESH WATER STATIONS

- TECHNICAL DATA SHEET -

ASAP

Fresh water stations are used to take heat from a storage tank in order to heat drinking water. The use of plate heat exchangers separates the storage tank from the fresh water. The amount of heat required for hot water comfort is stored exclusively in the hot water buffer tank while drinking water is heated when used. This is extremely hygienic as warm water is not stored.
These fresh water stations can be used from single-family house up to large scale system.

Instantaneous water production module with programmable electronic control unit and high-efficiency modulating circulator.
Designed for direct connection to hot water buffer vessels, it makes it possible to use the stored energy to ensure a high production of hot water at a controlled temperature that can be fully adjusted by the user.
The thermal stability of ASAP fresh water station is obtained by automatically varying the flow rate of the primary circulator, thus controlling the temperature of the return to the storage tank and favouring the best performance for each type of generator connected. The thermostat function, present in the internal logic of the control unit, makes it possible to control its start-up when necessary.

The main components are:

- High efficiency AISI 316L brazed heat exchanger
- Electronic modulating circulator for the primary hot water circuit
- High efficiency electronic circulator for the domestic hot water circulation circuit (where applicable)
- Digital flow sensor that constantly monitors the flow rate and temperature values for the production of domestic hot water
- Electronic control unit for total management of operating parameters

The regulation options available allow all the variables necessary for the production and distribution of hot water to be set and fully adapted to the needs of each system, with values constantly monitored and displayed on the digital graphic display for easy consultation.
The system also allows energy consumption to be checked at definable intervals and the temperature and operating hours of the circulation circuit to be programmed, if present.

It is completely thermally insulated and housed in an extremely compact box with a metal back plate for wall or tank mounting.

CONSTRUCTION				
	ASAP-30	**ASAP-40**	**ASAP-65**	**ASAP-85**
Plate heat exchanger material	Stainless Steel AISI 316L	Stainless Steel AISI 316L	Stainless Steel AISI 316L	Stainless Steel AISI 316L
Plate heat exchanger	Brazed type	Brazed type	Brazed type	Brazed type
Primary pump	Variable speed single electronic pump	Variable speed single electronic pump	Variable speed single electronic pump	Variable speed single electronic pump
Secondary pump	Variable speed single electronic pump (ASAP-RIC only)	Variable speed single electronic pump (ASAP-RIC only)	Variable speed single electronic pump (ASAP-RIC only)	Variable speed single electronic pump (ASAP-RIC only)
Electronic control panel	Programming, control and metering of energy used	Programming, control and metering of energy used	Programming, control and metering of energy used	Programming, control and metering of energy used
Flow regulator	Flow and temperature reading	Flow and temperature reading	Flow and temperature reading	Flow and temperature reading
Heat insulation shell	EPP foam	EPP foam	EPP foam	EPP foam
Accessories	Wall or tank mounting brackets	Wall or tank mounting brackets	Wall or tank mounting brackets	Wall or tank mounting brackets
TECHNICAL DATA				
Nominal output	(2÷30) l/min | 70 kW	(2÷40) l/min | 100 kW	(3,5÷65) l/min | 160 kW	(5÷85) l/min | 207 kW
Connections - DHW circuit	¾" thread type	¾" thread type	¾" thread type	1"¼ thread type
Connections - Heating circuit	¾" thread type	¾" thread type	1" thread type	1"½ thread type
Pressure loss on the service water side at nominal output	0,8 bar	0,67 bar	0,4 bar	0,8 bar
Pressure lost for piping on the heating side	50 mbar	50 mbar	50 mbar	50 mbar
Dimensions	(425×350×190) mm	(425×350×190) mm	(865×525×280) mm	(865×525×280) mm
OPERATING CONDITIONS				
Operating pressure - DHW	ATM÷10 bar	ATM÷10 bar	ATM÷10 bar	ATM÷10 bar
Operating pressure - Heating circuit	ATM÷10 bar	ATM÷10 bar	ATM÷10 bar	ATM÷10 bar
Operating temperature - DHW	AMB÷65 °C	AMB÷65 °C	AMB÷65 °C	AMB÷65 °C
Operating temperature - Heating circuit	AMB÷85 °C	AMB÷85 °C	AMB÷85 °C	AMB÷85 °C

REGULATORY COMPLIANCE
European Pressure Equipment Directive (PED) 2014/68/EU, Italian Legislative Decree 26/2016 | Good engineering practice - exclusion from CE marking - Art. 4.3
D.M. 174/04 | Used in contact with water for human consumption

ELECTRONIC CONTROL

Fresh water regulator for all stations

One controller platform covers the entire hot water portfolio, regardless of the fresh water station used. In the event of a cascade connection, the distinction between master and slave modules only needs to be made during commissioning. The standardised design means there is no need for servicing.

Fresh water regulator
A PWM signal is used to control the speed of the primary pump. This ensures a constant hot water temperature can be achieved.

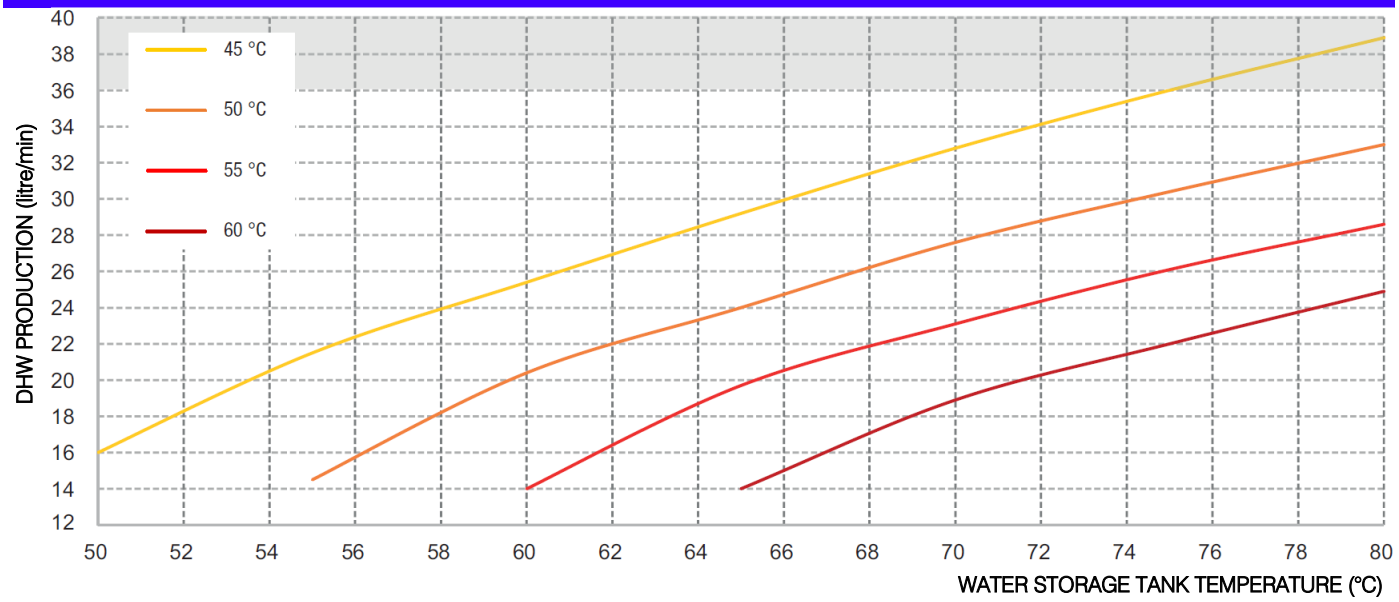
Comfort function
The comfort function can be used for pre-heating the plate heat exchanger in order to ensure a quick DHW supply.

Stratified return function
The stratified return function maintains the temperature stratification inside the storage tank before mixing while circulation is running.

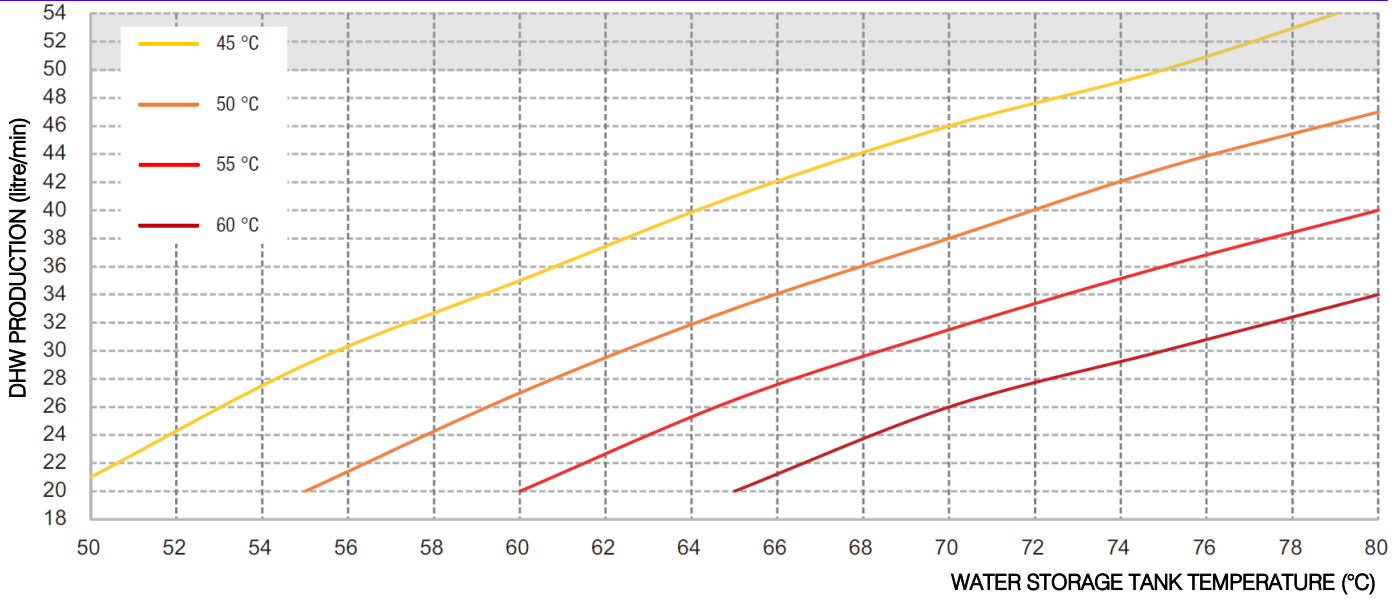
Setpoint shifting
If the flow sensor detects a temperature that is insufficient to reach the DHW temperature setting, it will be dynamically reduced.

Circulation
The integrated circulation function preheats the hot water pipes. The circulation pump can be operated in thermal, timed or on-demand mode.

PERFORMANCE CHART - ASAP-30



PERFORMANCE CHART - ASAP-40



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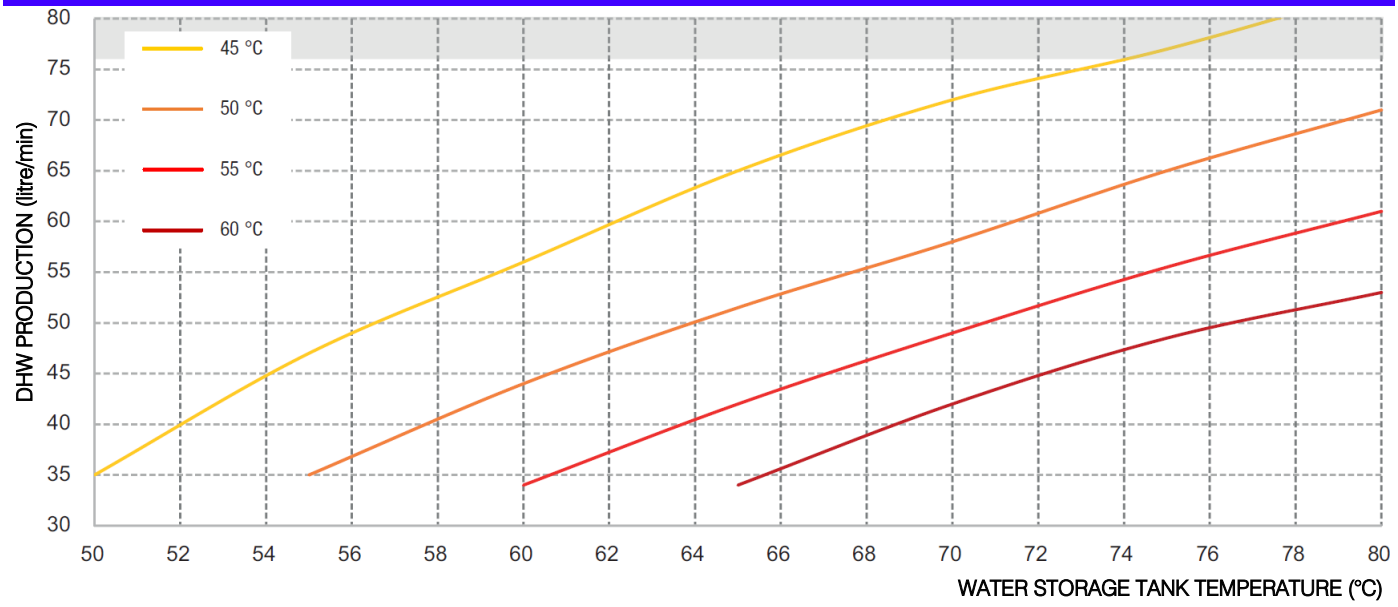
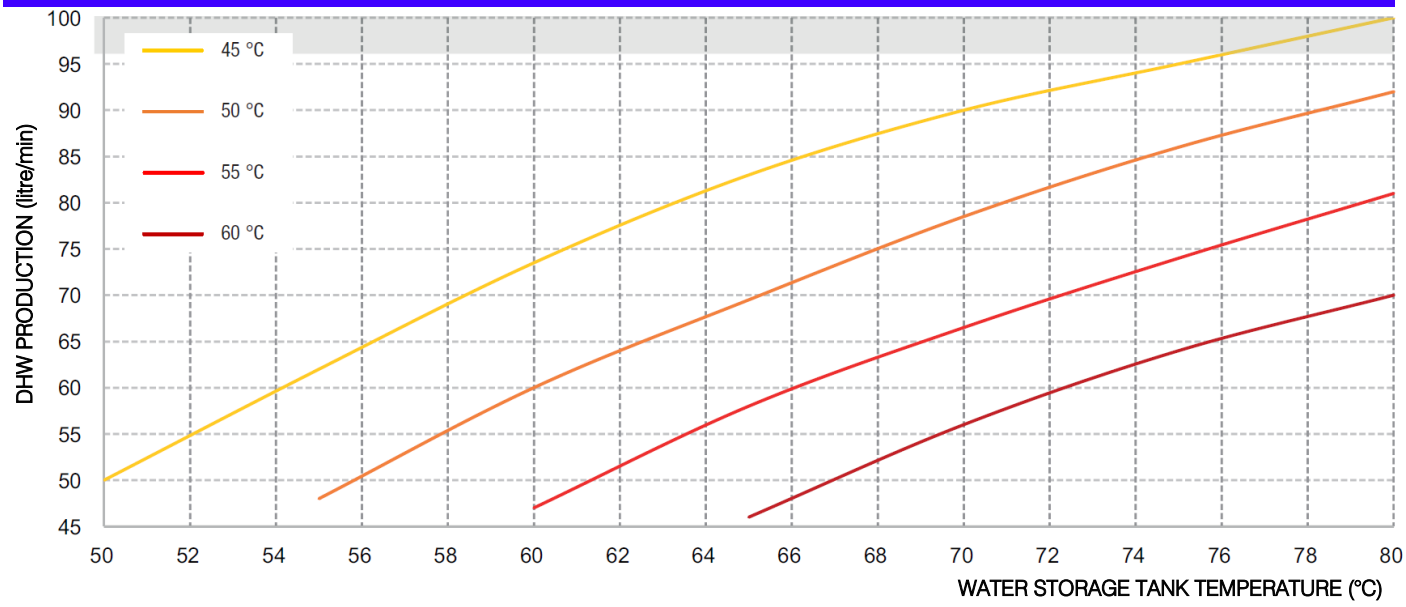


PERFORMANCE CHART - ASAP-85



www.pacetti.it

MADE IN ITALY

PACETTI S.r.l.
Via G. Marconi, 240/242
44122 - Ferrara - ITALY
Tel. +39 0532 774066
Fax +39 0532 773835
info@pacetti.it