

# Termoaccumuli puffer

## Puffer water storage units for heating systems

### PFA/PFB/PFC

#### ESECUZIONI SPECIALI

Disponibili esecuzioni speciali su richiesta: dimensioni personalizzate, attacchi flangiati, attacchi personalizzati, coibentazioni maggiorate, rivestimento in alluminio a forte spessore, ecc.

#### SPECIAL EXECUTION

Special execution available on request, including: customized dimensions, flanged couplings, customized couplings, thicker insulation, high-thickness aluminium coating, etc.

I serbatoi Puffer sono serbatoi inerziali per impianti di riscaldamento destinati allo stoccaggio di acqua calda non ad uso sanitario. Sono utilizzati in tutti quegli impianti alimentati mediante una fonte energetica discontinua (ad es. pannelli solari, caldaia a legna, termo camino, ecc), o laddove si renda necessario aumentare il volume d'acqua contenuto nell'impianto (ad es. impianti con pompe di calore, cogeneratori, caldaie a biomassa, ecc.).

Sono realizzati in lamiera di acciaio al carbonio, verniciati esternamente, coibentati in poliuretano flessibile con spessore 100 mm e rifiniti esternamente con PVC colorato.

Disponibili tre versioni:

#### PFA

Accumulo semplice

#### PFB

Accumulo dotato di uno scambiatore a tubo liscio interno per l'inserimento di una ulteriore fonte energetica (ad es. solare).

#### PFC

Accumulo dotato di due scambiatori a tubo liscio interni per l'inserimento di due ulteriori fonti energetiche (ad es. solare e termocamino).

#### ACCESSORI DISPONIBILI

A richiesta sono disponibili i seguenti accessori: kit scambiatore a piastre esterno serie termo kit COMBI e PUFFER; termometro, termostato e resistenza elettrica su attacco da 1"1/4.



The Puffer units are inertial tanks for heating plants to store non-domestic hot water.

They are used in all plants powered by discontinuous power sources (e.g. solar panels, wood burners, boiler stoves, etc.) or wherever the volume of water stored in the plant must be increased (e.g. plants with heat-pumps, combined heat and power units, biomass burners, etc.).

They are made of carbon steel sheet, externally painted and insulated with a 100mm thick flexible polyurethane, and externally finished with coloured PVC.

Three versions are available:

#### PFA

Storage unit

#### PFB

Storage unit fitted with smooth tube bundle heat exchanger to add an additional power source (e.g. solar).

#### PFC

Storage unit fitted with two smooth tube bundle heat exchangers to add two additional power sources (e.g. solar and boiler stove).

#### ON-DEMAND ACCESSORIES

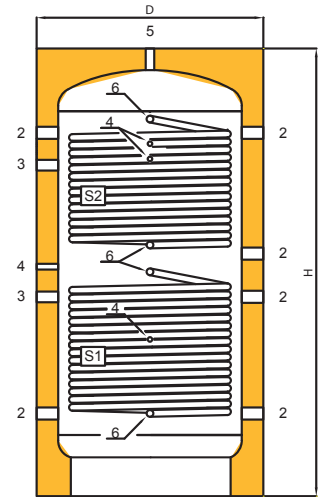
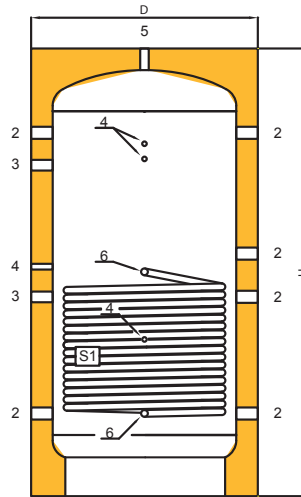
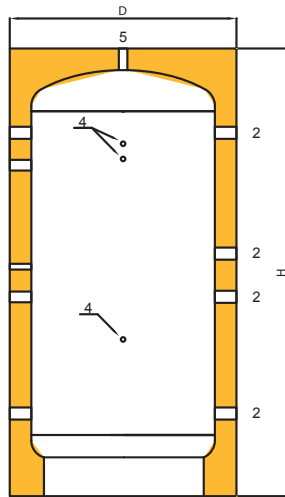
The following accessories can be supplied on demand: Combi and Puffer thermo-kit series external plate exchanger, thermometer, thermostat and resistor on 1/4" coupling.

Volume	PFA	PFB	PFC
300	817010044	819010051	819010054
500	817010045	819010052	819010055
800	817010046	819010053	819010056
1000	817010002	819010003	819010006
1500	817010003	819010004	819010007
2000	817010004	819010005	819010008

	LATO ACCUMULO / STORAGE SIDE		CIRCUITO SERPENTINO S1 LOWER EXCHANGER S1 CIRCUIT		CIRCUITO SERPENTINO S2 UPPER EXCHANGER S2 CIRCUIT	
	TEMPERATURA MAX temperature max	PRESSIONE MAX pressure max	TEMPERATURA MAX temperature max	PRESSIONE MAX pressure max	TEMPERATURA MAX temperature max	PRESSIONE MAX pressure max
PFA	95°C	5 bar	/	/	/	/
PFB	95°C	5 bar	99°C	9 bar	/	/
PFC	95°C	5 bar	99°C	9 bar	99°C	9 bar

**Legenda attacchi**  
**Coupling key**

- 2. Collegamento impianto
  - 3. Thermo kit per Combi e puffer
  - 4. Portasonda
  - 5. Sfiato
  - 6. Fonti ausiliarie
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- 2. Plant connection
  - 3. Thermo-kit for Combi and Puffer
  - 4. Probe holder
  - 5. Pressure relief valve
  - 6. Auxiliary sources



Accumuli con Volume maggiore o uguale a 2000 l sono realizzati con tre piedi d'appoggio.  
 Storage units with capacities equal or higher than 2000 l are available with three feet.

Capacità Capacity (litri/liters)	(mm)						Serpentino S1 Lower exchanger S1		Serpentino S2 Upper exchanger S1	
							Superficie Surface	Potenza* Power*	Superficie Surface	Potenza* Power*
	D	H	2	3	4	5-6	(mq)	(kW)	(mq)	(kW)
PFA										
100	600	950	1"1/4	1"1/4	1/2"	1"	/	/	/	/
200	650	1350	1"1/4	1"1/4	1/2"	1"	/	/	/	/
300	750	1420	1"1/4	1"1/4	1/2"	1"	/	/	/	/
500	850	1700	1"1/4	1"1/4	1/2"	1"	/	/	/	/
800	990	1740	1"1/4	1"1/4	1/2"	1"	/	/	/	/
1000	1050	2030	1"1/4	1"1/4	1/2"	1"	/	/	/	/
1500	1200	2120	1"1/4	1"1/4	1/2"	1"	/	/	/	/
2000	1300	2450	2"	1"1/4	1/2"	1"	/	/	/	/
2500	1400	2550	2"	1"1/4	1/2"	1"	/	/	/	/
3000	1450	2770	2"	1"1/4	1/2"	1"	/	/	/	/
4000	1600	2850	2"	1"1/4	1/2"	1"	/	/	/	/
5000	1800	2900	2"	1"1/4	1/2"	1"	/	/	/	/
PFB										
300	750	1420	1"1/4	1"1/4	1/2"	1"	1.5	/	/	/
500	850	1700	1"1/4	1"1/4	1/2"	1"	2.1	15	/	/
800	990	1740	1"1/4	1"1/4	1/2"	1"	2.7	19	/	/
1000	1050	2030	1"1/4	1"1/4	1/2"	1"	4	28	/	/
1500	1200	2120	1"1/4	1"1/4	1/2"	1"	5	35	/	/
2000	1300	2450	2"	1"1/4	1/2"	1"	6	42	/	/
PFC										
300	750	1420	1"1/4	1"1/4	1/2"	1"	1.5	11	1.0	7.0
500	850	1700	1"1/4	1"1/4	1/2"	1"	2.1	15	1.2	8.5
800	990	1740	1"1/4	1"1/4	1/2"	1"	2.7	19	1.5	11.0
1000	1050	2030	1"1/4	1"1/4	1/2"	1"	4	28	3.0	21.0
1500	1200	2120	1"1/4	1"1/4	1/2"	1"	5	35	3.5	25.0
2000	1300	2450	2"	1"1/4	1/2"	1"	6	42	4.0	28.0

\*Prestazioni calcolate con primario 80°C ed accumulo 65°C / \*Performance calculated with primary circuit at 80°C and storage at 65°C