

PUFFER 1

HEATING WATER BUFFER TANK WITH 1 FIXED HEAT EXCHANGER



APPLICATION

Efficient storage of heating hot water mostly using biomass, heat pumps or solar thermal energy sources.

MATERIAL

Mild steel outside painted. There is no need of any anti-corrosion treatment due to the fact that the buffer is in a closed circuit without any adding air.

HEAT EXCHANGER

1 mild steel fixed heat exchanger

TECHNICAL DESCRIPTION

Used to improve flexibility of pellets, stoves and burners. PUFFER 1 are used in units with a typically discontinuous energy source such as biomass boiler and solar thermal system.

PUFFER 1 allows the solar energy system integration.

INSULATION

- HARD: High thermal insulation with ecological polyurethane hard foam.
- SOFT: NOFIRE® polyester fleece 100% made of recyclable material, with high thermal insulation. Fire resistance class B-s2d0 according to EN 13501.

Grey PVC external lining complete with top and flange cover

WARRANTY

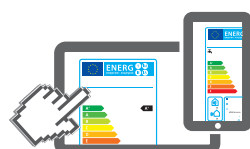
5 years - See general sales conditions and warranty

ACCESSORIES AND SPARE PARTS

See Accessories section for the entire list.



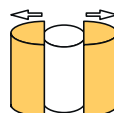
HARD FOAM INSULATION




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On line ErP label tool

SOFT FLEECE INSULATION




PUFFER 1 VB

Model	HARD FOAM insulation	HEAT EXCHANGER SURFACE [m ²]	ENERGY EFFICIENCY CLASS 
	Art. Nr.		
300	3251162312201	1,0	C
500	3251162312202	1,9	C
600	3251162312203	2,1	C
750	3251162312214	2,3	C
800	3251162312215	2,5	C
1000	3251162312216	3,1	C
1250	3251162312207	3,4	C
1500	3251162312208	3,8	C
2000	3251162312209	4,6	C




Model	DISMOUNTABLE HARD FOAM insulation	HEAT EXCHANGER SURFACE [m ²]	ENERGY EFFICIENCY CLASS 
	Art. Nr.		
750	3251162312204	2,3	C
800	3251162312205	2,5	C
1000	3251162312206	3,1	C

PUFFER 1 VC


Model	DISMOUNTABLE SOFT FLEECE insulation	HEAT EXCHANGER SURFACE [m ²]	ENERGY EFFICIENCY CLASS 
	Art. Nr.		
750	3251162282814	2,3	C
800	3251162282815	2,5	C
1000	3251162282816	3,1	C
1500	3251162282817	3,8	C
2000	3251162282818	4,6	C
3000	3251162282308	6,2	
5000	3251162282309	7,5	

Accessories on request


Monophase and threephase electrical immersion

Monophase and three-phase electrical immersion:		
		
Available kit:		
[Kw]	Tension [V]	
da 1,5 a 3	220 - MONOPHASE	
da 4 a 12	400 - TRIPHASE	
See accessories		

Thermometer

Art. Nr.	
5032240000107	
5 units box	

Buffer tanks connecting kit

Art. Nr.	Connection	
5006170001001	1" 1/2	
Stainless steel extensible connecting kit - (200 ÷ 400 mm)		

PUFFER 1

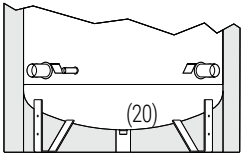
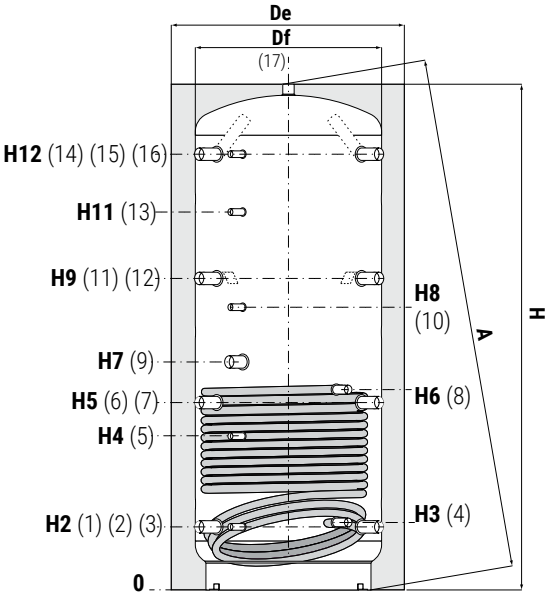
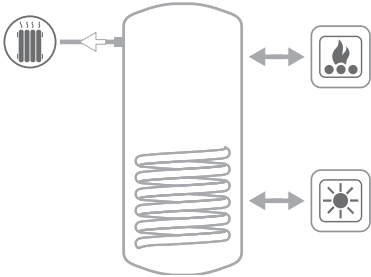
HEATING WATER BUFFER TANK WITH 1 FIXED HEAT EXCHANGER

STORAGE		HEAT EXCHANGER	
Pmax	Tmax	Pmax	Tmax
3 bar	99 °C	12 bar	110 °C

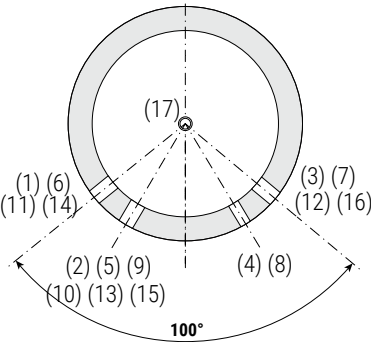
CORDIVARI Lab
TÜV Rheinland Energie
und Umwelt GmbH states
that test procedures and
Cordivari LAB are certified conforming
to European standard EN 15332, as
indicated by Ecodesign ErP Directive.



ASK ALWAYS FOR
CERTIFIED LABORATORIES
DATA RESULTS



Only for models 3000 e 5000



1-3-6-7	Heating return/To Generator
2-5	Connection for instrumentation 1/2" Gas F
4	Lower fixed heat exchanger outlet
8	Lower fixed heat exchanger inlet
9	Electrical immersion
10	Connection for instrumentation 1/2" Gas F
11-12-14-16	Heating delivery/ Heating return
13	Connection for instrumentation 1/2" Gas F
15	Connection for instrumentation 1/2" Gas F
17	Heating delivery
20	Drain only for models 3000 e 5000

Model	Volume [lt]	Df (vers. VC)	De (vers. VC)	De (vers. VB)	H	A	H2	H3	H4
[mm]									
300	279	//	//	650	1340	1489	232	217	444
500	478	//	//	750	1620	1784	247	260	533
600	560	//	//	750	1870	2014	247	260	582
750	717	790	1010	950	1658	1911	265	278	584
800	805	790	1010	950	1840	2071	265	278	584
1000	946	790	1010	950	2130	2332	265	284	656
1250	1248	//	//	1100	2201	2439	313	326	705
1500	1454	950	1210	1100	2250	2504	313	336	736
2000	1973	1100	1360	1300	2320	2659	347	370	770
3000	2915	1250	1450	//	2814	3079	556	569	1017
5000	4985	1600	1800	//	2929	3338	586	609	1047

Model	H5	H6	H7	H8	H9	H11	H12
[mm]							
300	514	514	590	725	796	885	1078
500	629	745	841	930	1011	1231	1343
600	695	855	915	1060	1144	1382	1593
750	630	679	823	938	995	1180	1371
800	690	762	823	988	1115	1332	1541
1000	787	953	998	1188	1309	1588	1831
1250	835	884	986	1168	1357	1568	1879
1500	845	1006	1061	1286	1377	1653	1909
2000	879	1001	1060	1300	1411	1687	1943
3000	1071	1551	1693	1879	1786	2140	2402
5000	1101	1522	1691	1889	1816	2159	2432

1-3-6-7-9-11-12-14-16-17	4-8	20
Connections Gas F		
1" 1/2	1"	//
1" 1/2	1"	//
1" 1/2	1"	//
1" 1/2	1"	//
1" 1/2	1"	//
1" 1/2	1"	//
1" 1/2	1"	//
1" 1/2	1"	//
2"	1" 1/4	1"
2"	1" 1/4	2"

P.E.D. product designed and produced in conformity to the article 4.3 of directive 2014/68/UE - ErP Ecodesign directive 2009/125/CE

EXTRA-BOLLY®
CALORIFIERS

BOLLYTERM®
CALORIFIERS

STAINLESS STEEL
CALORIFIERS

CALORIFIERS FOR
HEAT PUMP

MULTIFUEL ENERGY
CYLINDERS - PUFFER

HYDRONIC

INERTIAL
TANKS

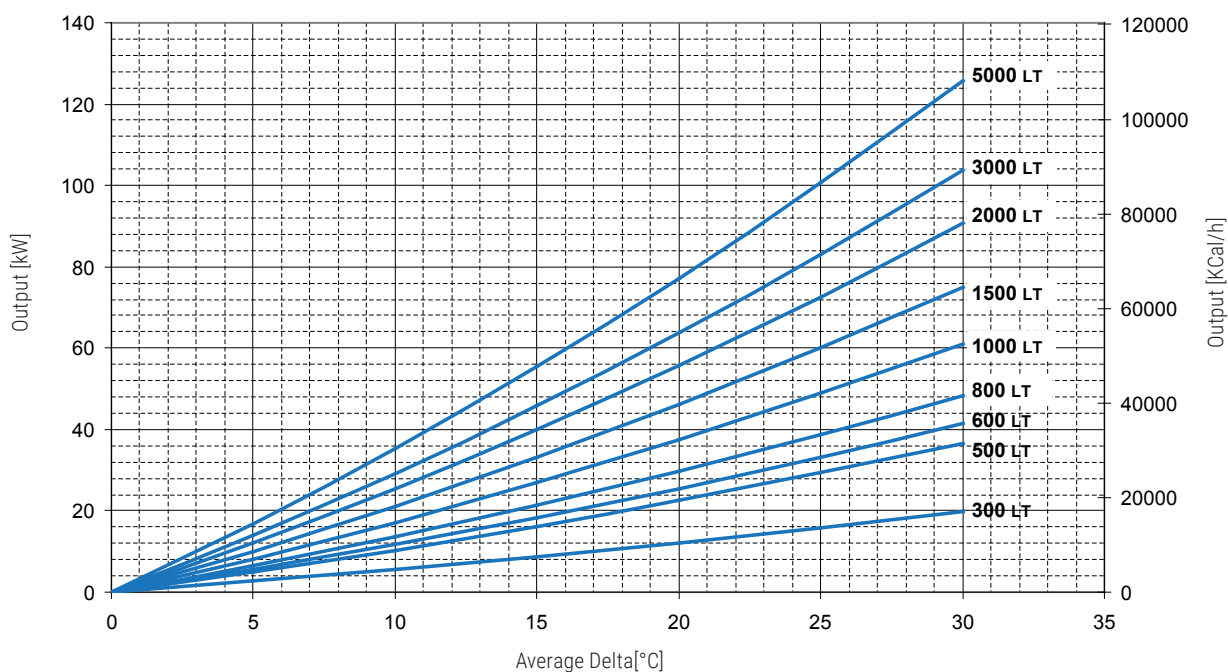
WATER PRESSURE
TANKS

COMPRESSED AIR
RECEIVERS

ACCESSORIES
AND SPARE PARTS

TECHNICAL
SUPPORT

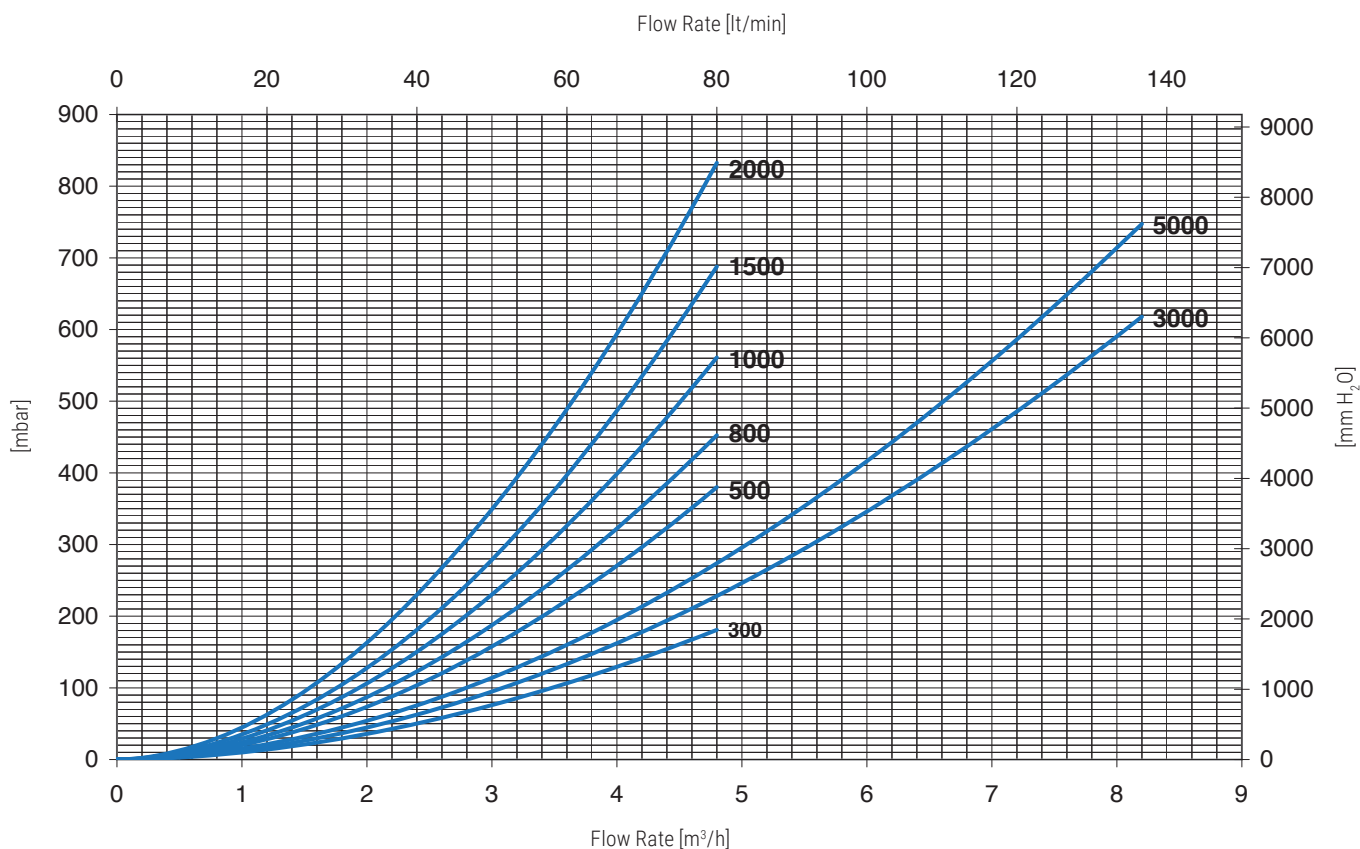
PUFFER 1 FIXED HEAT EXCHANGER POWERS CHART



Thermal output is given in both kW or kcal/h in terms of average temperature difference between primary and secondary circuit, all for a range of primary 3 m³/h. For example, a PUFFER 1 T of 1000 liters Capacity with a water flow of 3 m³/h at 80 °C inlet and outlet at 70 °C, has on the storage of water an average temperature of 60 °C, the mean difference of temperature will be:
 $(80 + 70) / 2 - 60 = 15$ °C and therefore you can exchange up to approximately 34 kW.

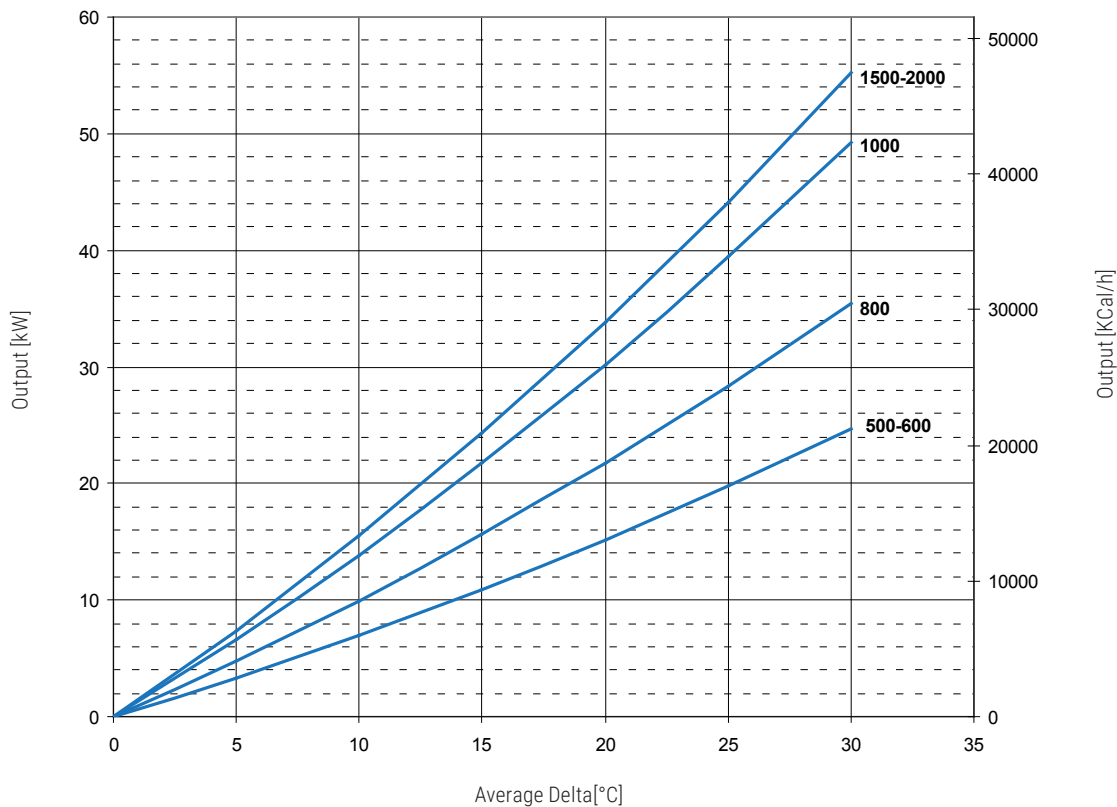
Output of the lower heat exchangers PUFFER 1 depending on the average DeltaT between primary and accumulation considering flow rate 3 m³/h.

PUFFER 1 FIXED HEAT EXCHANGER PRESSURE LOSS



PUFFER 2 - UPPER FIXED HEAT EXCHANGER POWERS CHART

For lower exchanger power data see PUFFER 1



Output of the lower heat exchangers PUFFER 2 depending on the average DeltaT between primary and accumulation considering flow rate 3 m³/h.

PUFFER 2 UPPER FIXED HEAT EXCHANGER PRESSURE LOSS

For lower exchanger power data see PUFFER 1

