

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 construction with exterior paint. No anti-corrosion treatment required due to the buffer's closed circuit system.

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

NOFIRE® soft polyester fleece 100% made of recyclable material, with high thermal insulation. Fire resistance class B-s2d0 according to EN 13501. Grey PVC external lining with top cover.

HE SERIES: High thermal insulation with ecological hard polyurethane foam.

WARRANTY

2 years

See general sales conditions and warranty.



available until April 2016

PUFFER 1 VT VC

Model	Storage: Mild steel Heat exchanger: Mild steel	Art. Nr.	ENERGY EFFICIENCY CLASS ErP	HEAT EXCHANGER SURFACE [m ²]
300	3251162282201		C	1,0
500	3251162282902		C	1,9
600	3251162282210		E	2,1
750	3251162282773		E	2,3
800	3251162282203		E	2,5
1000	3251162282204		E	3,1
1500	3251162282205		E	3,8
2000	3251162282307		E	4,6
3000	3251162282308			6,2
5000	3251162282309			7,5



TECHNICAL DATA AND
ECODESIGN ERP LABELS
AVAILABLE ONLINE AT
WWW.CORDIVARI.COM

PUFFER 1 HE SERIES

HIGH EFFICIENCY INSULATION TANKS

Designed according to 2009/125/CE Directive (ErP – Eco-friendly Plan Specification), HE series are already compliant with Regulation n. 814/2013, that demands C-energy efficiency class from September, 26th 2017.



PUFFER 1 VT VC HE

Model	Storage: Mild steel Heat exchanger: Mild steel	Art. Nr.	ENERGY EFFICIENCY CLASS ErP	HEAT EXCHANGER SURFACE [m ²]
300	3251162312201		C	1,0
500	3251162312202		C	1,9
600	3251162312203		C	2,1
750	3251162312204		C	2,3
800	3251162312205		C	2,5
1000	3251162312206		C	3,1
1250	3251162312207		C	3,4
1500	3251162312208		C	3,8
2000	3251162312209		C	4,6

Accessories on request

Electrical immersions kit

Available kit:
[Kw] Tension [V]
from 1,5 to 3 220 - MONOPHASE
from 4 to 12 400 - THREEPHASE
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)	

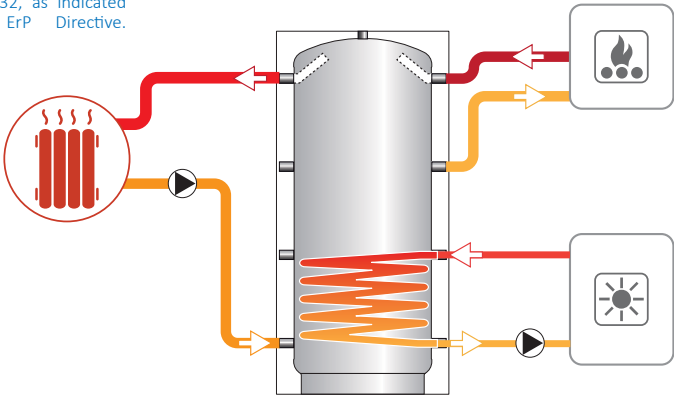
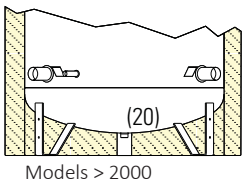
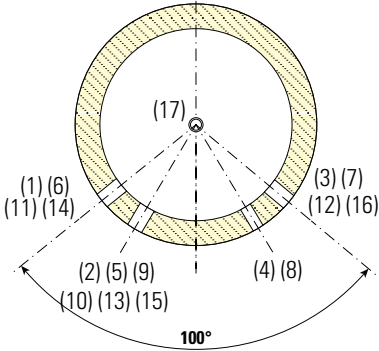
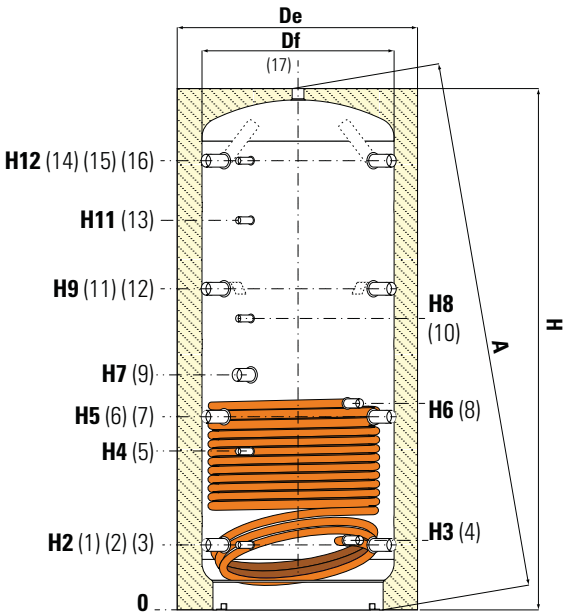


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STORAGE		HEAT EXCHANGERS	
Pmax	Tmax	Pmax	Tmax
3 bar	99 °C	12 bar	110 °C

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.



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/From Generator
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 - 5000

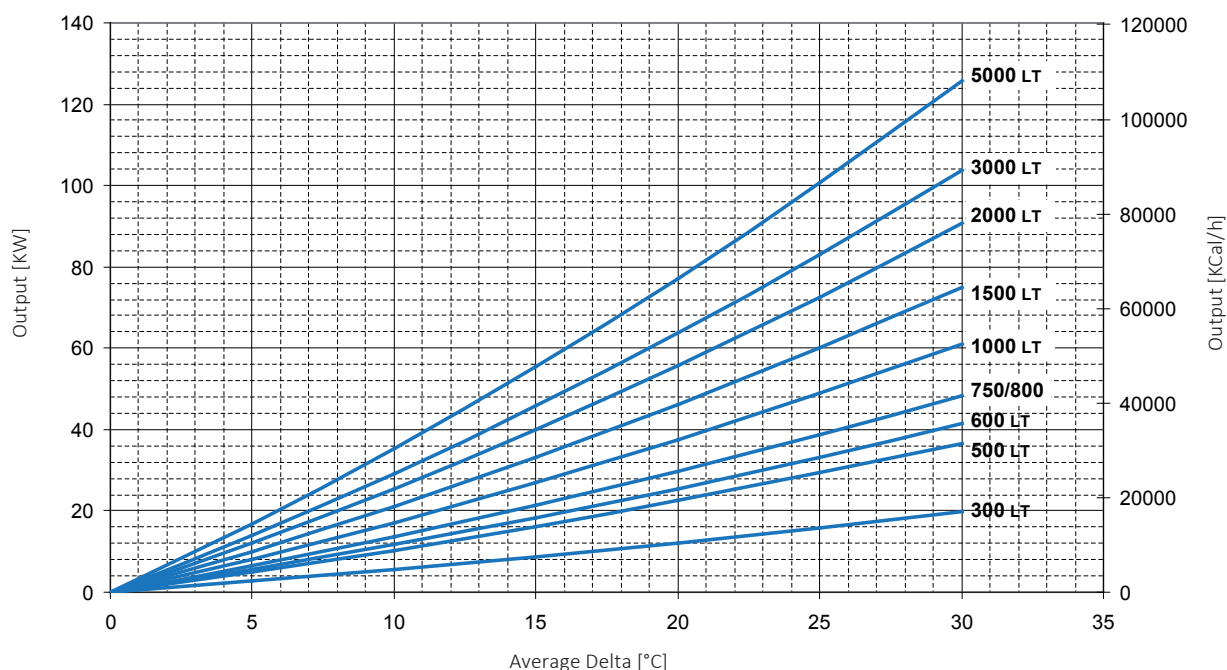
PUFFER



Model	Net volume [lt]	Df	De	De (HE SERIE)	H	A	H2	H3	H4	H5	H6	H7	H8	H9	H11	H12	1-3-6-7-9-11-12-14-16-17	4-8	20
[mm]																	Connections Gas F		
300	279	550	750	650	1340	1489	232	217	444	514	514	590	725	796	885	1078	1" 1/2	1"	//
500	478	650	850	750	1620	1784	247	260	533	629	745	841	930	1011	1231	1343	1" 1/2	1"	//
600	560	650	850	750	1870	2014	247	260	582	695	855	915	1060	1144	1382	1593	1" 1/2	1"	//
750	717	790	990	940	1658	1906	265	278	584	630	679	823	938	995	1180	1371	1" 1/2	1"	//
800	805	790	990	950	1840	2064	265	278	584	690	762	823	988	1115	1332	1541	1" 1/2	1"	//
1000	946	790	990	940	2130	2326	265	284	656	787	953	998	1188	1309	1588	1831	1" 1/2	1"	//
1250	1248	900	//	1050	2201	2439	313	326	705	835	884	986	1168	1357	1568	1879	1" 1/2	1"	//
1500	1435	950	1150	1100	2250	2504	313	336	736	845	1006	1061	1286	1377	1653	1909	1" 1/2	1"	//
2000	1973	1100	1300	1300	2320	2659	347	370	770	879	1001	1060	1300	1411	1687	1943	1" 1/2	1"	//
3000	2915	1250	1450	//	2814	3079	556	569	1017	1071	1551	1693	1879	1786	2140	2402	2"	1"1/4	1"
5000	4985	1600	1800	//	2929	3338	586	609	1047	1101	1522	1691	1889	1816	2159	2432	2"	1"1/4	2"

P.E.D. product planned and produced in conformity to the article 3.3 of directive 92/23/CE

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) / 20 - 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

