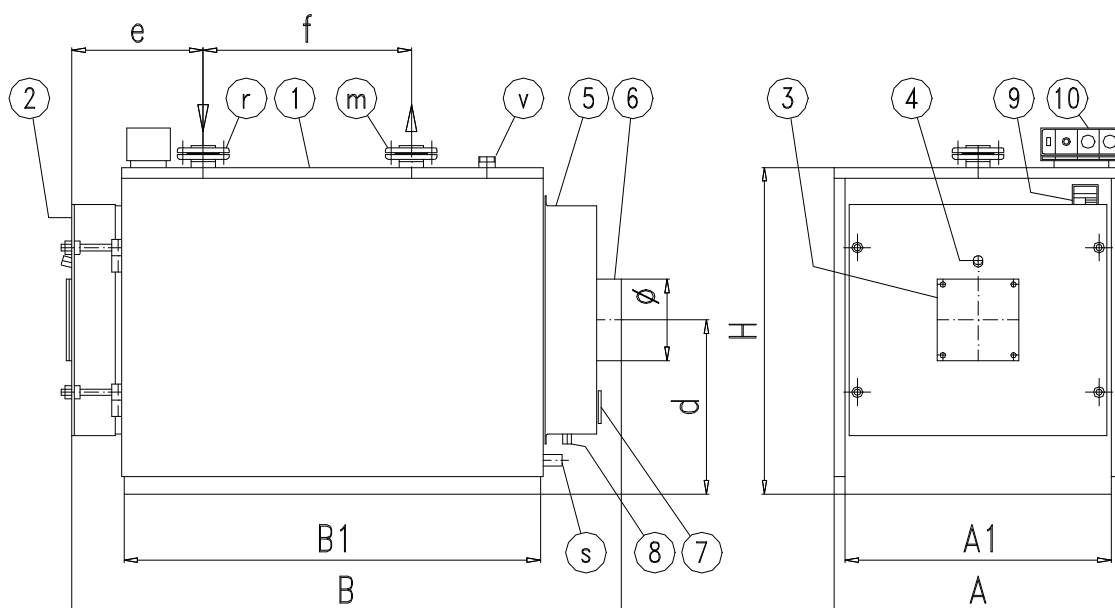


Caldaia per riscaldamento – alto rendimento
Heating boiler – high efficiency

VERSION WORKING at 8bar or 10bar on inquiry.



1 – corpo caldaia / boiler shell
2 – portellone / door
3 – piastra sostegno bruciatore / burner plate
4 – spia controllo fiamma / combustion control
5 – camera fumi / smokes chamber
6 – uscita fumi / smokes outlet
7 – portina pulizia / cleaning door

8 – scarico condensa fumi / smokes condensate discharged
9 – targa tecnica / name plate
10 – pannello strumenti / panel
m – mandata riscaldamento / heating delivery
r – ritorno riscaldamento / heating return
v – vaso espansione / expansion vessel
s – scarico / discharged

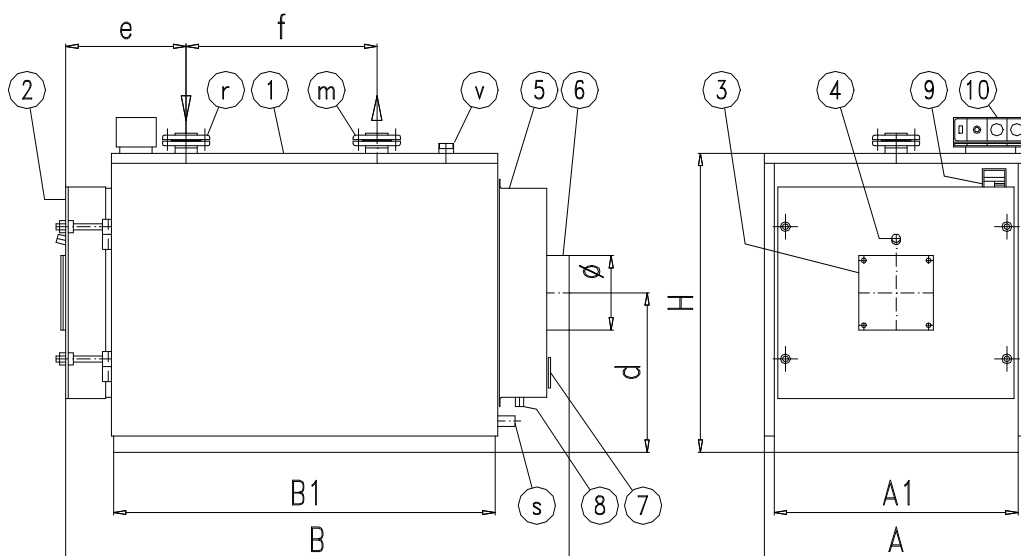
MODELLO - TYPE	PACK-P AR	93	105	150	190	230	290	345	405	465	520	580	695	810	930	1045
Potenza utile nominale	kW	93	104,7	151,2	192	233	291	349	407	465	523	581	700	820	940	1060
Nominal capacity	kcal/hx1000	80	90	130	165	200	250	300	350	400	450	500	602	705	808	911
Potenza termica al focolare	kW	103	115,5	167	211	257	320	384	449	511	577	637	771	899	1027	1156
Furnace capacity	kcal/hx1000	88,6	99,3	143,6	181,5	220,6	275	330,2	386,1	439	494	548	663	773	884	994
Contropressione focolare	mbar	0,5	0,7	1,2	1,2	1,5	2,3	3,3	4,4	3,3	4,3	4,8	4,5	5,6	5,4	6
Perdita di carico lato acqua *	mbar	4,5	5,6	11,8	6,9	10	16,3	23	31	18	22	28	18	25	33	40
Conten. acqua caldaia	dm ³	119	119	155	228	228	285	276	329	402	402	476	697	795	733	817
Press. max caldaia	bar	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6
Max boiler pressure **																
Dimensioni Dimensions	A mm	790	790	790	940	940	940	940	940	1040	1040	1040	1240	1240	1240	1240
	B mm	1110	1110	1360	1405	1405	1655	1655	1905	1990	1990	2290	2345	2545	2545	2795
	H mm	880	880	880	990	990	990	990	990	1150	1150	1150	1280	1280	1280	1280
	A1 mm	750	750	750	900	900	900	900	900	1000	1000	1000	1200	1200	1200	1200
	B1 mm	760	760	1010	1010	1010	1260	1260	1510	1512	1512	1812	1814	2014	2014	2264
	d mm	460	460	460	510	510	510	510	510	595	595	595	640	640	640	640
	e mm	430	430	430	465	465	465	465	465	625	625	625	625	625	625	625
	f mm	260	260	510	450	450	700	700	950	792	792	1092	974	1174	1174	1424
Attacchi Connections	r / m DN	2"	2"	2"	65	65	65	65	65	80	80	80	100	100	100	100
	v DN	1"1/4	1"1/4	1"1/4	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	2"	2"	2"	65	65	65	65
	s DN	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
	Ø mm	200	200	200	220	220	220	220	220	250	250	250	350	350	350	350
Peso a vuoto – empty weight	Kg	270	280	340	450	460	590	630	700	900	910	1000	1270	1400	1500	1650

* Δt 15°C

** su richiesta anche 8 e 10 bar / on request also 8 and 10 bar

La BLOWTHERM SPA si riserva di apportare quelle modifiche che giudicherà necessarie per migliorare la produzione
BLOWTHERM SPA reserves the right to make any modifications considered necessary for improving production

Caldaia per riscaldamento – alto rendimento
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MODELLO - TYPE	PACK-P AR	1100	1250	1600	1800	2000	2500	3000	3500
Potenza utile nominale kW		1240	1480	1890	2100	2360	2960	3550	4150
Nominal capacity kcal/h x1000		1066	1273	1625	1806	2030	2545	3053	3569
Potenza termica al focolare kW		1349	1606	2056	2282	2570	3213	3855	4497
Furnace capacity kcal/h x1000		1160	1381	1768	1963	2210	2762	3315	3867
Contropressione focolare mbar		6,5	6,8	7	7,2	7,2	7,5	7,8	9
Furnace pressure									
Perdita di carico lato acqua * mbar		36	54	45		70	64	90	120
Water side loos pressure									
Conten. acqua caldaia dm		1277	1372	2010		2163	3155	3292	4839
Boiler water content									
Press. max caldaia bar		6	6	6	6	6	6	6	6
Max boiler pressure **									
Dimensioni Dimensions	A mm	1380	1380	1610	1610	1610	1800	1800	2000
	B mm	2950	3200	3245	3535	3535	3955	4255	4790
	H mm	1500	1500	1800	1800	1800	2000	2000	2210
	A1 mm	1380	1380	1610	1610	1610	1800	1800	2000
	B1 mm	2416	2666	2680	2970	2970	3320	3620	4024
	d mm	810	810	965	965	965	1070	1070	1700
	e mm	430	430	430	430	430	510	510	522
	f mm	1700	1950	1440	1730	1730	1700	2000	2200
Attacchi Connections	r / m DN	125	125	150	150	150	200	200	200
	v DN	80	80	100	100	100	125	125	125
	s DN	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2
	Ø mm	400	400	450	450	450	500	500	600
Peso a vuoto – empty weight	kg	2100	2350	3450	3640	3710	5280	5760	7490

* Δt 15°C

** su richiesta anche 8 e 10 bar / on request also 8 and 10 bar



PACK-P AR

MANUFACTURING CHARACTERISTICS:

These range boilers have been projected with a particular attention to the long duration in the time, easy maintenance and maximum safety, as underlined from the following characteristics:

- the **Combustion Chamber** has an horizontal-cylinder configuration, settled inside and externally at the front plate, free to expand longitudinally and closed at the back with bottom completely wet.
- the **smoke tubes** are settled at the tube plate and they are arranged around the combustion chamber to optimize the circulation of water. Furthermore they are projecting from the back plate to preserve the weldings from corrosion of condensate
- the **turbolators** are in stainless steel, designed to optimize the heat exchange and grants an high efficiency
- the steel **smoke chamber** is completed with the cleaning door and the connection for the easily discharged of condensate and smokes
- the **front door** is openable from both side (until model PACK-P AR 2000) to permit an easy maintenance. It has a refractory thermo-insulation, flame sight glass and a blind plate for the burner connection.
- the **shell of the boiler's body** is made with wool mineral thickness 60mm granting the thermo-insulation of the body, while the galvanized pre-painted steel **panels** complete the external finishing.
On request for the model PACK-P AR 93-1045, it is possible to receive the total covering of the boiler, with galvanized steel panels that covers also the door and the smoke chamber.
- the **control panel** is located above the boiler, allowing the control of all the functions and the visualization of the main parameters. It includes: general switch with working lamp, protection thermal fuse, safety thermostat, regulation thermostat and water thermometer (from the model PACK-P AR 520, it is connected the 2nd operating thermostat for two-stages burner).
- the boiler is equipped with the following **connections**: on the top side the conections of water delivery and return and for the expansion tank. On the inferior side the one for the muds discharge.

EFFICIENCY:

- the boilers answer to the technical and functional characteristics at the prescription of the rule UNI 7936, UNI 9166 and DPR 412/93 (art. 6) in realization of the Italian law 10/91.

CERTIFICATION:

The boilers are certified are EC Certified according with the directives:

- Gas Directive 90/396
- Efficiency Directive 92/42
- Low Voltage Directive 73/23

ON REQUEST:

- Working pressure 8 or 10 bar
- Steel cover panel for frontal door