



Monoblock burners made in die-cast aluminium housing with relative flange to work on heating generators. These burners include the NOVANTA series up to 4100 kW and CINQUECENTO series up to 8000 kW. All burners are built in compliance with the directive 2009/142/CE.

These burners, available with Progressive or Modulating operation, are provided with a combustion head "bell shaped" for high performance and low emissions.

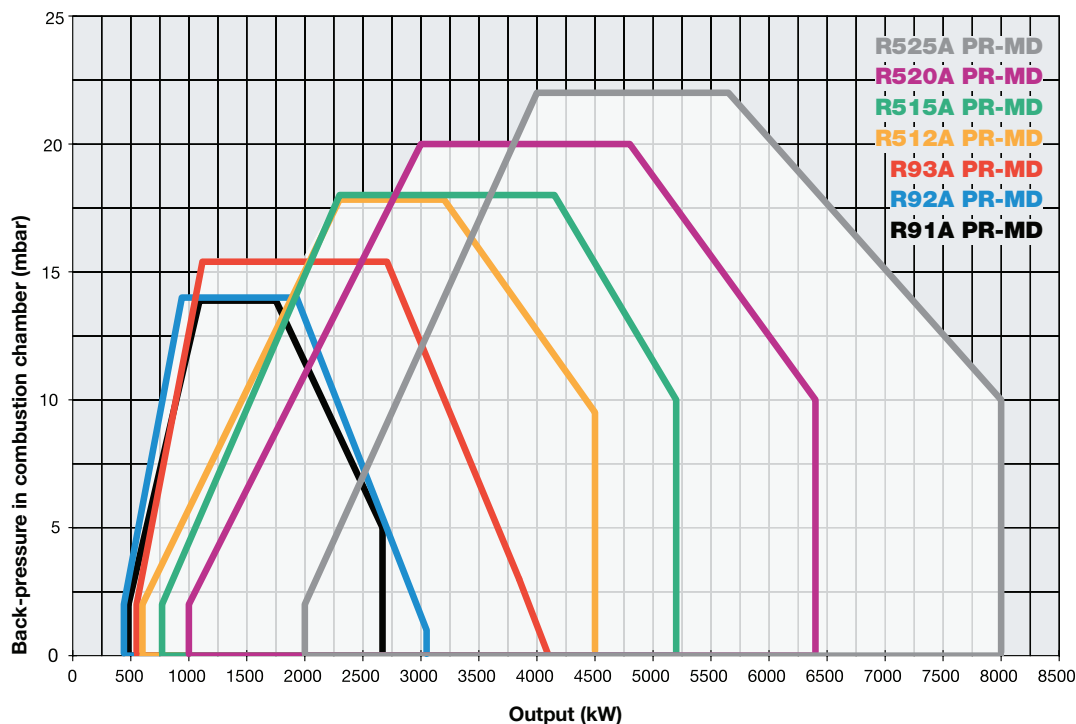
The electrical servomotor acts both on the butterfly valve and on the air damper; it works through a variable profile cam in order to achieve the best results of combustion.

The control panel facia is printed with a mimic diagram complete with lamps to show the sequential stages of the burner operation. Despite to its considerable dimension, this series permit all standard maintenance operations to be carried out by one single person.

The new air inlet system with built-in silencer ensures the lowest noise levels.



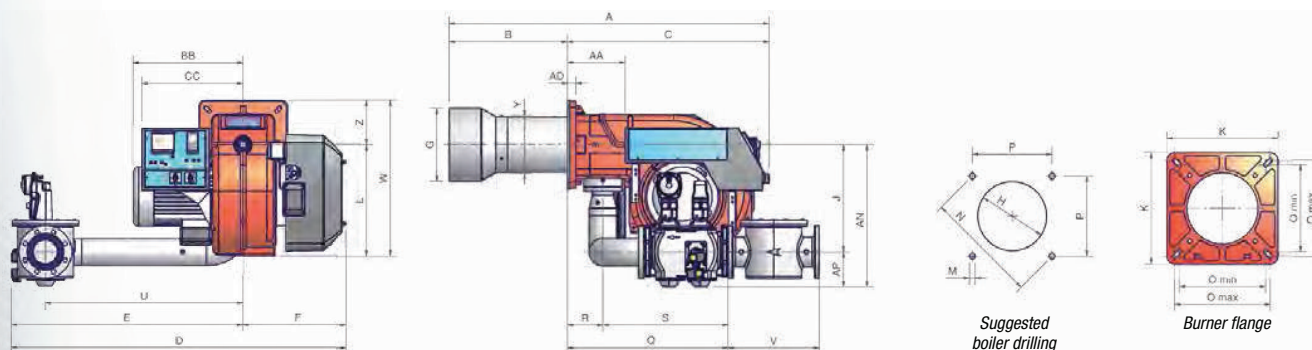
Electronic set up (optional)



TECHNICAL DETAILS

Type	Model	Power kW		Electric power supply	Fan motor kW	Gas connections Rp
		min.	max.			
R91A	M-.xx.S.IT.A.1.xxx	480	2.670	230/400V 3N ac	4,0	2" - DN65 - 80 - 100
R92A	M-.xx.S.IT.A.1.xxx	480	3.050	230/400V 3N ac	5,5	2" - DN65 - 80 - 100
R93A	M-.xx.S.IT.A.1.xxx	550	4.100	230/400V 3N ac	7,5	2" - DN65 - 80 - 100

For the configuration of the gas train, see pages 112-113.



Type	Packaging dimensions* (mm)			
	l	p	h	kg
R91A	1730	1280	1020	250
R92A	1730	1280	1020	260
R93A	1730	1280	1020	300

(*) Approximate values (regarding model with gas train DN 100)

Type	Model	Overall dimensions* (mm)																											
		A	AA	B	BB	C	CC	D	E	F	G	H	J	K	L	M	N	O		P	Q	R	S	U	V	W	Y	Z	
		min. max.																											
R91A	M-.xx.S.IT.A.1.50	1333	242	490	419	843	422	1296	860	436	265	295	329	360	464	M12	417	280	310	295	522	148	374	624	216	649	228	185	
R91A	M-.xx.S.IT.A.1.65	1333	242	490	419	843	422	1391	957	434	265	295	288	360	464	M12	417	280	310	295	551	148	403	750	292	649	228	185	
R91A	M-.xx.S.IT.A.1.80	1333	242	490	419	843	422	1393	959	434	265	295	307	360	464	M12	417	280	310	295	592	148	444	750	322	649	228	185	
R91A	M-.xx.S.IT.A.1.100	1333	242	490	419	843	422	1483	1049	434	265	295	447	360	464	M12	417	280	310	295	672	148	524	824	382	649	228	185	
R92A	M-.xx.S.IT.A.1.50	1333	242	490	419	843	422	1294	860	434	269	299	329	360	464	M12	417	280	310	295	522	148	374	624	216	649	228	185	
R92A	M-.xx.S.IT.A.1.65	1333	242	490	419	843	422	1391	957	434	269	299	288	360	464	M12	417	280	310	295	551	148	403	750	292	649	228	185	
R92A	M-.xx.S.IT.A.1.80	1333	242	490	419	843	422	1393	959	434	269	299	307	360	464	M12	417	280	310	295	592	148	444	750	322	649	228	185	
R92A	M-.xx.S.IT.A.1.100	1333	242	490	419	843	422	1483	1049	434	269	299	447	360	464	M12	417	280	310	295	672	148	524	824	382	649	228	185	
R93A	M-.xx.S.IT.A.1.50	1338	242	495	460	843	422	1294	860	434	304	344	329	360	464	M12	417	280	310	295	522	148	374	624	216	649	228	185	
R93A	M-.xx.S.IT.A.1.65	1338	242	495	460	843	422	1391	957	434	304	344	288	360	464	M12	417	280	310	295	551	148	403	750	292	649	228	185	
R93A	M-.xx.S.IT.A.1.80	1338	242	495	460	843	422	1393	959	434	304	344	307	360	464	M12	417	280	310	295	592	148	444	750	322	649	228	185	
R93A	M-.xx.S.IT.A.1.100	1338	242	495	460	843	422	1483	1049	434	304	344	447	360	464	M12	417	280	310	295	672	148	524	824	382	649	228	185	

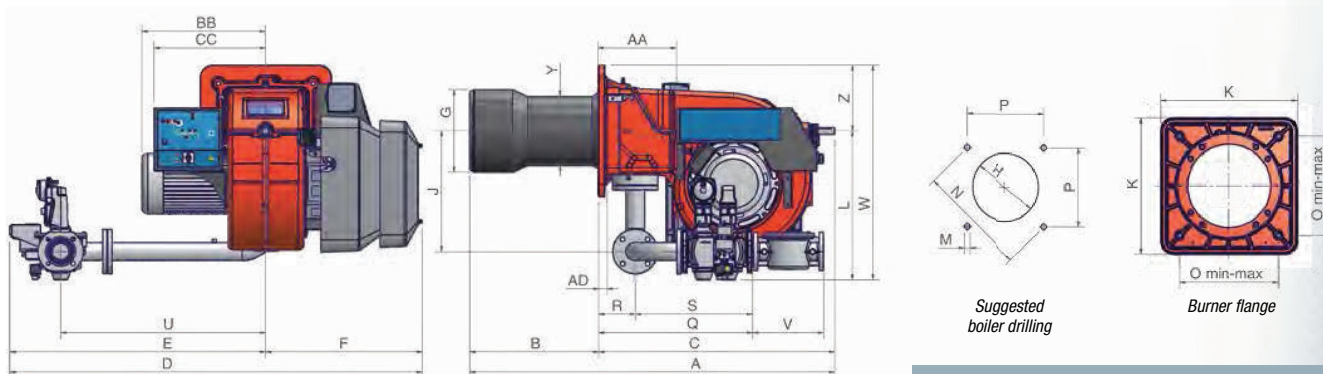
(*) Approximate values



TECHNICAL DETAILS

Type	Model	Power kW		Electric power supply	Fan motor kW	Gas connections Rp
		min.	max.			
R512A	M-.xx.S.IT.A.1.xxx	600	4.500	230/400V 3N ac	9,2	2" - DN65 - 80 - 100
R515A	M-.xx.S.IT.A.1.xxx	770	5.200	230/400V 3N ac	11,0	2" - DN65 - 80 - 100
R520A	M-.xx.S.IT.A.1.xxx	1.000	6.400	230/400V 3N ac	15,0	2" - DN65 - 80 - 100
R525A	M-.xx.S.IT.A.1.xxx	2.000	8.000	400V 3N ac	18,5	DN65 - 80 - 100

For the configuration of the gas train, see pages 112-113.



Type	Packaging dimensions* (mm)			
	l	p	h	kg
R512A	1570	1350	1120	300
R515A	1570	1350	1120	300
R520A	1570	1350	1120	350
R525A	1720	1500	1150	400

(*) Approximate values (regarding model with gas train DN 100)

Type	Model	Overall dimensions* (mm)																											
		A	AA	AD	B	BB	C	CC	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	U	V	W	Y	Z	
R512A	M-.xx.S.IT.A.1.50	1475	323	35	530	508	945	446	1713	1071	642	340	380	494	540	597	M14	552	390	390	755	150	605	843	216	867	328	270	
R512A	M-.xx.S.IT.A.1.65	1475	323	35	530	508	945	446	1691	1049	642	340	380	494	540	612	M14	552	390	390	633	150	483	843	292	882	328	270	
R512A	M-.xx.S.IT.A.1.80	1475	323	35	530	508	945	446	1726	1084	642	340	380	494	540	628	M14	552	390	390	685	150	535	875	322	898	328	270	
R512A	M-.xx.S.IT.A.1.100	1475	323	35	530	508	945	446	1809	1167	642	340	380	494	540	641	M14	552	390	390	792	150	642	942	382	911	328	270	
R515A	M-.xx.S.IT.A.1.50	1475	323	35	530	508	945	446	1713	1071	642	380	420	494	540	597	M14	552	390	390	755	150	605	843	216	867	328	270	
R515A	M-.xx.S.IT.A.1.65	1475	323	35	530	508	945	446	1691	1049	642	380	420	494	540	612	M14	552	390	390	633	150	483	843	292	882	328	270	
R515A	M-.xx.S.IT.A.1.80	1475	323	35	530	508	945	446	1726	1084	642	380	420	494	540	628	M14	552	390	390	685	150	535	875	322	898	328	270	
R515A	M-.xx.S.IT.A.1.100	1475	323	35	530	508	945	446	1809	1167	642	380	420	494	540	641	M14	552	390	390	792	150	642	942	382	911	328	270	
R520A	M-.xx.S.IT.A.1.50	1475	323	35	530	508	945	446	1713	1071	642	400	440	494	540	597	M14	552	390	390	755	150	605	843	216	867	328	270	
R520A	M-.xx.S.IT.A.1.65	1475	323	35	530	508	945	446	1691	1049	642	400	440	494	540	612	M14	552	390	390	633	150	483	843	292	882	328	270	
R520A	M-.xx.S.IT.A.1.80	1475	323	35	530	508	945	446	1726	1084	642	400	440	494	540	628	M14	552	390	390	685	150	535	875	322	898	328	270	
R520A	M-.xx.S.IT.A.1.100	1475	323	35	530	508	945	446	1809	1167	642	400	440	494	540	641	M14	552	390	390	792	150	642	942	382	911	328	270	
R525A	M-.xx.S.IT.A.1.50	1475	145	35	530	650	945	571	1713	1071	642	434	484*	494	540	597	M14	552	390	390	755	150	605	843	216	867	328	270	
R525A	M-.xx.S.IT.A.1.65	1475	145	35	530	650	945	571	1691	1049	642	434	484*	494	540	612	M14	552	390	390	633	150	483	843	292	882	328	270	
R525A	M-.xx.S.IT.A.1.80	1475	145	35	530	650	945	571	1726	1084	642	434	484*	494	540	628	M14	552	390	390	685	150	535	875	322	898	328	270	
R525A	M-.xx.S.IT.A.1.100	1475	145	35	530	650	945	571	1809	1167	642	434	484*	494	540	641	M14	552	390	390	792	150	642	942	382	911	328	270	

(*) Approximate values

MECHANICAL OPERATION

Model	Gas train	Operation	R91A		R92A	
			Code	Price €	Code	Price €
M-.PR.S.IT.A.1.50	2"	PR	012014853		012015253	
M-.PR.S.IT.A.1.65	DN65	PR	012014953		012015353	
M-.PR.S.IT.A.1.80	DN80	PR	012015053		012015453	
M-.PR.S.IT.A.1.100	DN100	PR	012015153		012015553	
M-.MD.S.IT.A.1.50	2"	MD(*)	012014854		012015254	
M-.MD.S.IT.A.1.65	DN65	MD(*)	012014954		012015354	
M-.MD.S.IT.A.1.80	DN80	MD(*)	012015054		012015454	
M-.MD.S.IT.A.1.100	DN100	MD(*)	012015154		012015554	

Model	Gas train	Operation	R93A			
			Code	Price €		
M-.PR.S.IT.A.1.50	2"	PR	012015653			
M-.PR.S.IT.A.1.65	DN65	PR	012015753			
M-.PR.S.IT.A.1.80	DN80	PR	012015853			
M-.PR.S.IT.A.1.100	DN100	PR	012015953			
M-.MD.S.IT.A.1.50	2"	MD(*)	012015654			
M-.MD.S.IT.A.1.65	DN65	MD(*)	012015754			
M-.MD.S.IT.A.1.80	DN80	MD(*)	012015854			
M-.MD.S.IT.A.1.100	DN100	MD(*)	012015954			

Model	Gas train	Operation	R512A		R515A	
			Code	Price €	Code	Price €
M-.PR.S.IT.A.1.50	2"	PR	029010153		029010553	
M-.PR.S.IT.A.1.65	DN65	PR	029010253		029010653	
M-.PR.S.IT.A.1.80	DN80	PR	029010353		029010753	
M-.PR.S.IT.A.1.100	DN100	PR	029010453		029010853	
M-.MD.S.IT.A.1.50	2"	MD(*)	029010154		029010554	
M-.MD.S.IT.A.1.65	DN65	MD(*)	029010254		029010654	
M-.MD.S.IT.A.1.80	DN80	MD(*)	029010354		029010754	
M-.MD.S.IT.A.1.100	DN100	MD(*)	029010454		029010854	

Model	Gas train	Operation	R520A		R525A	
			Code	Price €	Code	Price €
M-.PR.S.IT.A.1.50	2"	PR	029010953		-	
M-.PR.S.IT.A.1.65	DN65	PR	029011053		029011453	
M-.PR.S.IT.A.1.80	DN80	PR	029011153		029011553	
M-.PR.S.IT.A.1.100	DN100	PR	029011253		029011653	
M-.MD.S.IT.A.1.50	2"	MD(*)	029010954		-	
M-.MD.S.IT.A.1.65	DN65	MD(*)	029011054		029011454	
M-.MD.S.IT.A.1.80	DN80	MD(*)	029011154		029011554	
M-.MD.S.IT.A.1.100	DN100	MD(*)	029011254		029011654	

(*) In order for the supply to be completed, the burner must be equipped with the respective modulating probe (see accessory table, page 238).

In compliance with DIRECTIVE 2009/142/CE



ELECTRONIC OPERATION

Model	Gas train	Operation	R91A		R92A	
			Code	Price €	Code	Price €
M-.PR.S.IT.A.1.50.EA	2"	PR	01201205A		01201245A	
M-.PR.S.IT.A.1.65.EA	DN65	PR	01201215A		01201255A	
M-.PR.S.IT.A.1.80.EA	DN80	PR	01201225A		01201265A	
M-.PR.S.IT.A.1.100.EA	DN100	PR	01201235A		01201275A	
M-.MD.S.IT.A.1.50.EA	2"	MD(*)	01201205E		01201245E	
M-.MD.S.IT.A.1.65.EA	DN65	MD(*)	01201215E		01201255E	
M-.MD.S.IT.A.1.80.EA	DN80	MD(*)	01201225E		01201265E	
M-.MD.S.IT.A.1.100.EA	DN100	MD(*)	01201235E		01201275E	
M-.MD.S.IT.A.1.50.ES	2"	MD(*)	01201205S		01201245S	
M-.MD.S.IT.A.1.65.ES	DN65	MD(*)	01201215S		01201255S	
M-.MD.S.IT.A.1.80.ES	DN80	MD(*)	01201225S		01201265S	
M-.MD.S.IT.A.1.100.ES	DN100	MD(*)	01201235S		01201275S	

Model	Gas train	Operation	R93A	
			Code	Price €
M-.PR.S.IT.A.1.50.EA	2"	PR	01201165A	
M-.PR.S.IT.A.1.65.EA	DN65	PR	01201175A	
M-.PR.S.IT.A.1.80.EA	DN80	PR	01201185A	
M-.PR.S.IT.A.1.100.EA	DN100	PR	01201195A	
M-.MD.S.IT.A.1.50.EA	2"	MD(*)	01201165E	
M-.MD.S.IT.A.1.65.EA	DN65	MD(*)	01201175E	
M-.MD.S.IT.A.1.80.EA	DN80	MD(*)	01201185E	
M-.MD.S.IT.A.1.100.EA	DN100	MD(*)	01201195E	
M-.MD.S.IT.A.1.50.ES	2"	MD(*)	01201165S	
M-.MD.S.IT.A.1.65.ES	DN65	MD(*)	01201175S	
M-.MD.S.IT.A.1.80.ES	DN80	MD(*)	01201185S	
M-.MD.S.IT.A.1.100.ES	DN100	MD(*)	01201195S	

(*) In order for the supply to be completed, the burner must be equipped with the respective modulating probe (see accessory table, page 238).

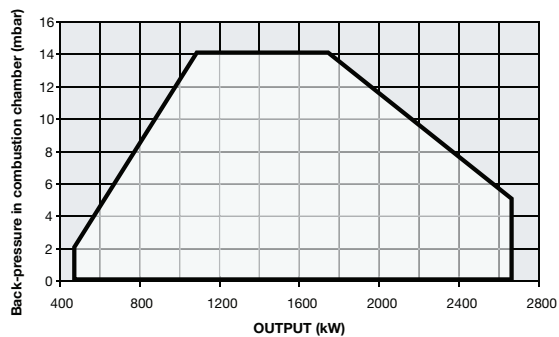
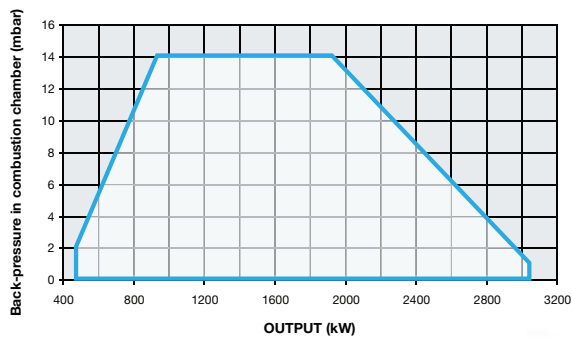
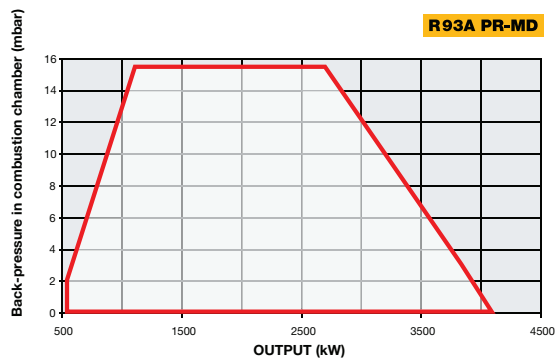
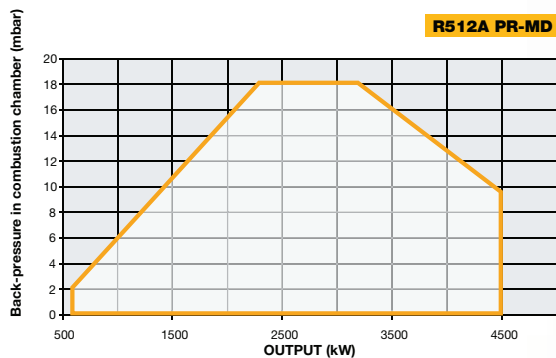
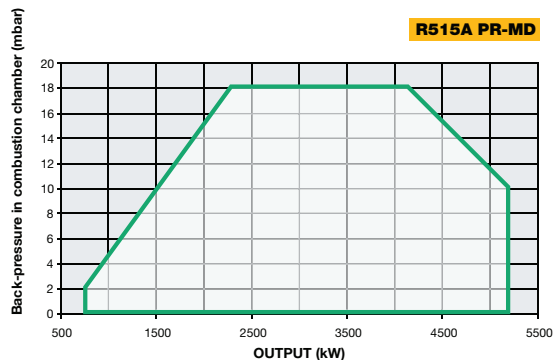
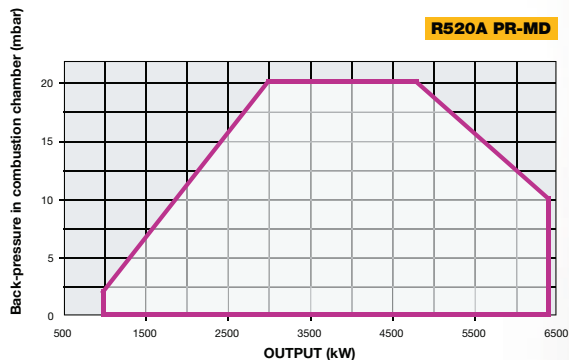
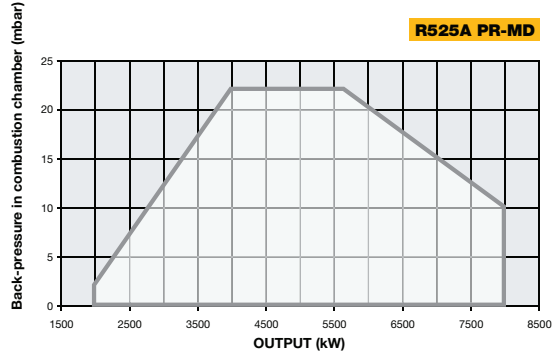
In compliance with DIRECTIVE 2009/142/CE

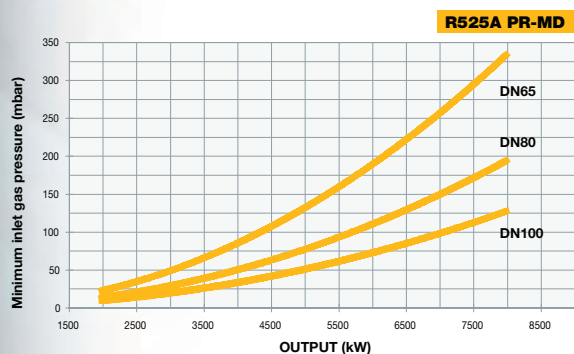
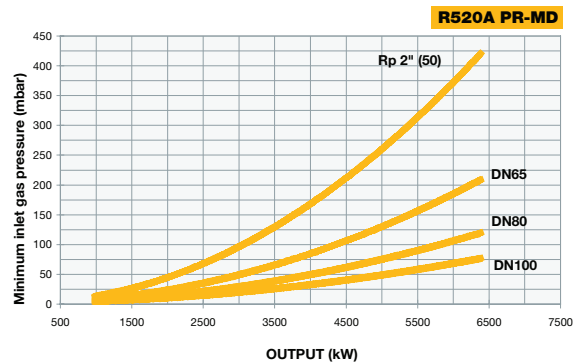
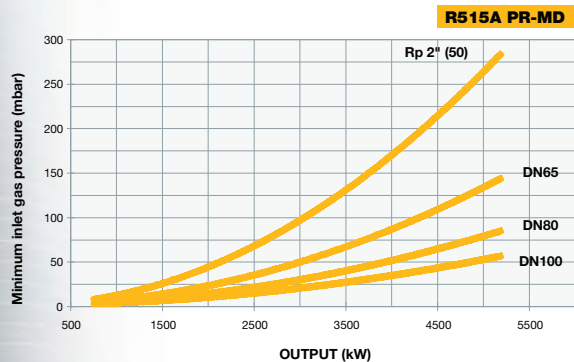
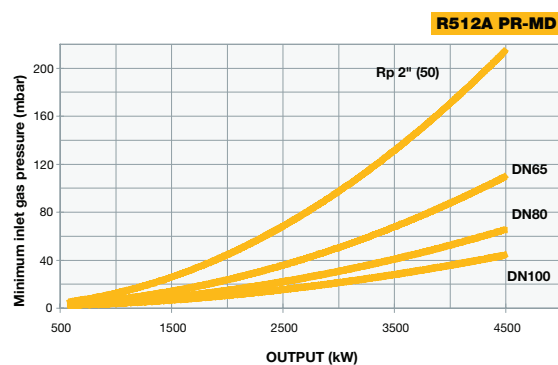
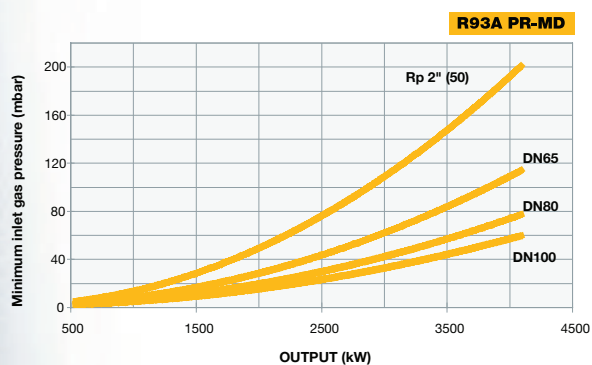
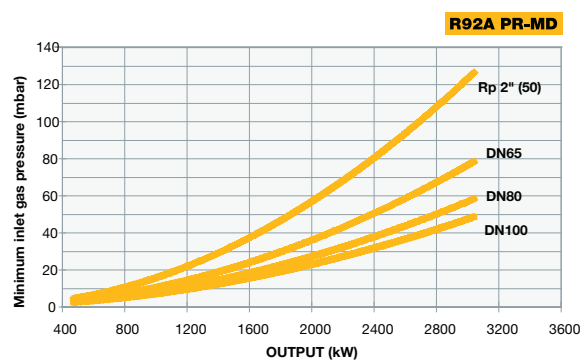
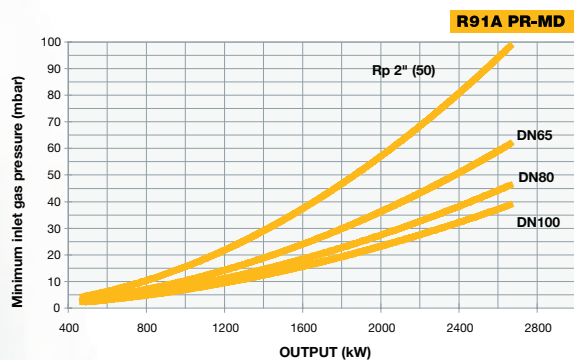
ELECTRONIC OPERATION

Model	Gas train	Operation	R512A		R515A	
			Code	Price €	Code	Price €
M-.PR.S.IT.A.1.50.EA	2"	PR	02901015A		02901055A	
M-.PR.S.IT.A.1.65.EA	DN65	PR	02901025A		02901065A	
M-.PR.S.IT.A.1.80.EA	DN80	PR	02901035A		02901075A	
M-.PR.S.IT.A.1.100.EA	DN100	PR	02901045A		02901085A	
M-.MD.S.IT.A.1.50.EA	2"	MD(*)	02901015E		02901055E	
M-.MD.S.IT.A.1.65.EA	DN65	MD(*)	02901025E		02901065E	
M-.MD.S.IT.A.1.80.EA	DN80	MD(*)	02901035E		02901075E	
M-.MD.S.IT.A.1.100.EA	DN100	MD(*)	02901045E		02901085E	
M-.MD.S.IT.A.1.50.ES	2"	MD(*)	02901015S		02901055S	
M-.MD.S.IT.A.1.65.ES	DN65	MD(*)	02901025S		02901065S	
M-.MD.S.IT.A.1.80.ES	DN80	MD(*)	02901035S		02901075S	
M-.MD.S.IT.A.1.100.ES	DN100	MD(*)	02901045S		02901085S	

Model	Gas train	Operation	R520A		R525A	
			Code	Price €	Code	Price €
M-.PR.S.IT.A.1.50.EA	2"	PR	02901095A		-	
M-.PR.S.IT.A.1.65.EA	DN65	PR	02901105A		02901145A	
M-.PR.S.IT.A.1.80.EA	DN80	PR	02901115A		02901155A	
M-.PR.S.IT.A.1.100.EA	DN100	PR	02901125A		02901165A	
M-.MD.S.IT.A.1.50.EA	2"	MD(*)	02901095E		-	
M-.MD.S.IT.A.1.65.EA	DN65	MD(*)	02901105E		02901145E	
M-.MD.S.IT.A.1.80.EA	DN80	MD(*)	02901115E		02901155E	
M-.MD.S.IT.A.1.100.EA	DN100	MD(*)	02901125E		02901165E	
M-.MD.S.IT.A.1.50.ES	2"	MD(*)	02901095S		-	
M-.MD.S.IT.A.1.65.ES	DN65	MD(*)	02901105S		02901145S	
M-.MD.S.IT.A.1.80.ES	DN80	MD(*)	02901115S		02901155S	
M-.MD.S.IT.A.1.100.ES	DN100	MD(*)	02901125S		02901165S	

(*) In order for the supply to be completed, the burner must be equipped with the respective modulating probe (see accessory table, page 238).
In compliance with DIRECTIVE 2009/142/CE

**R91A PR-MD****R92A PR-MD****R93A PR-MD****R512A PR-MD****R515A PR-MD****R520A PR-MD****R525A PR-MD**



Attention: the graph shows the value of the gas output (kW) against the corresponding pressure without the combustion chamber back pressure. To know the minimum gas pressure at gas train, in order to get the gas output, it is necessary to add the boiler back pressure to the value read on the curve.