

LOW CAPACITY
OIL BURNERS

AZ



Joannes

UNI EN ISO 9001:2000

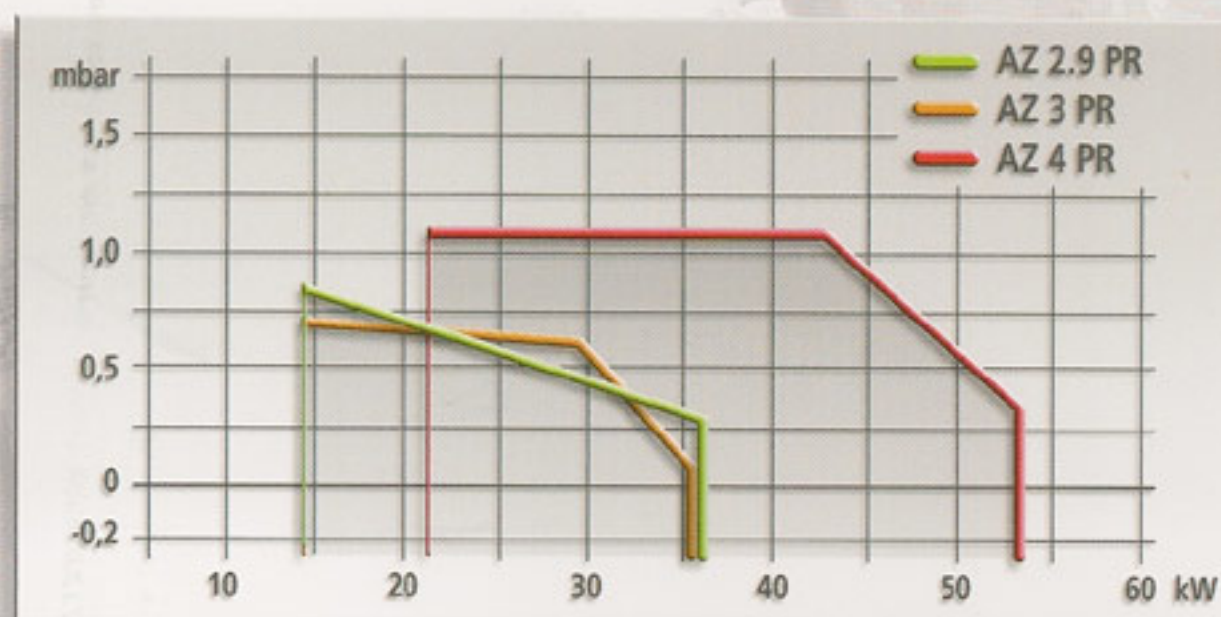
LOW CAPACITY OIL BURNERS

AZ 2.9, the smallest of the range, was purposely conceived for low capacities. It is however a "great" burner technologically in the van for its good quality features. AZ 2.9 PR, conceived for special applications is equipped with oil pre-heater.

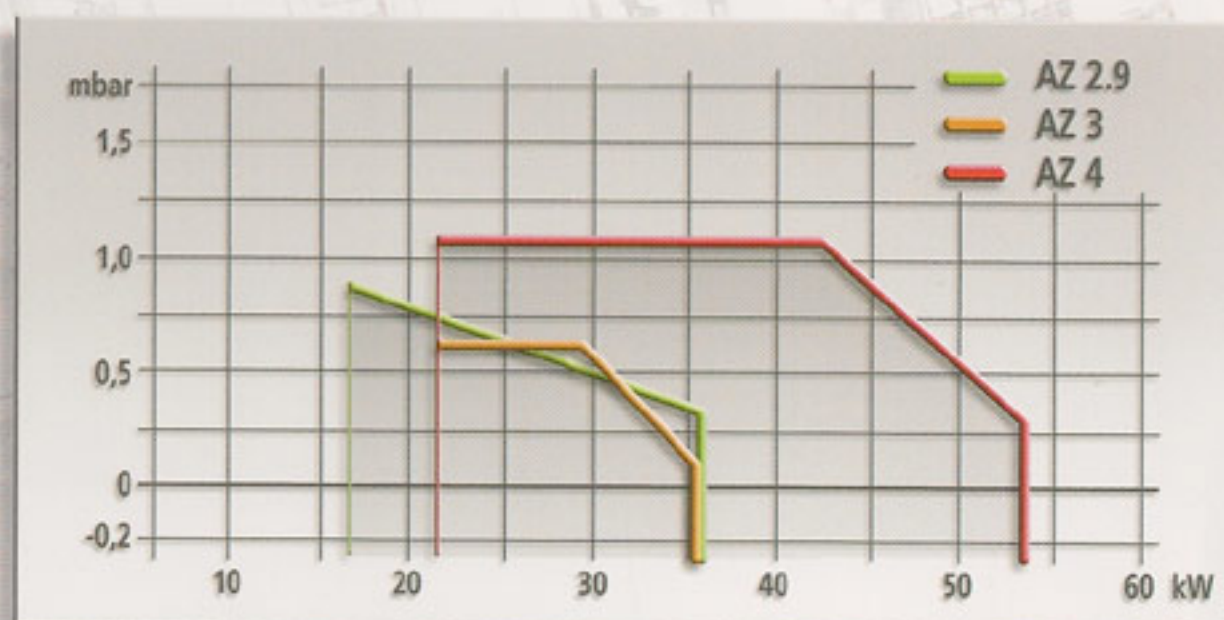
A complete line of high technological level originates from these small great burners which cover a range of capacities from 14,2 to 237,2 kW.



BURNERS WITH PRE-HEATER



SINGLE STAGE BURNERS



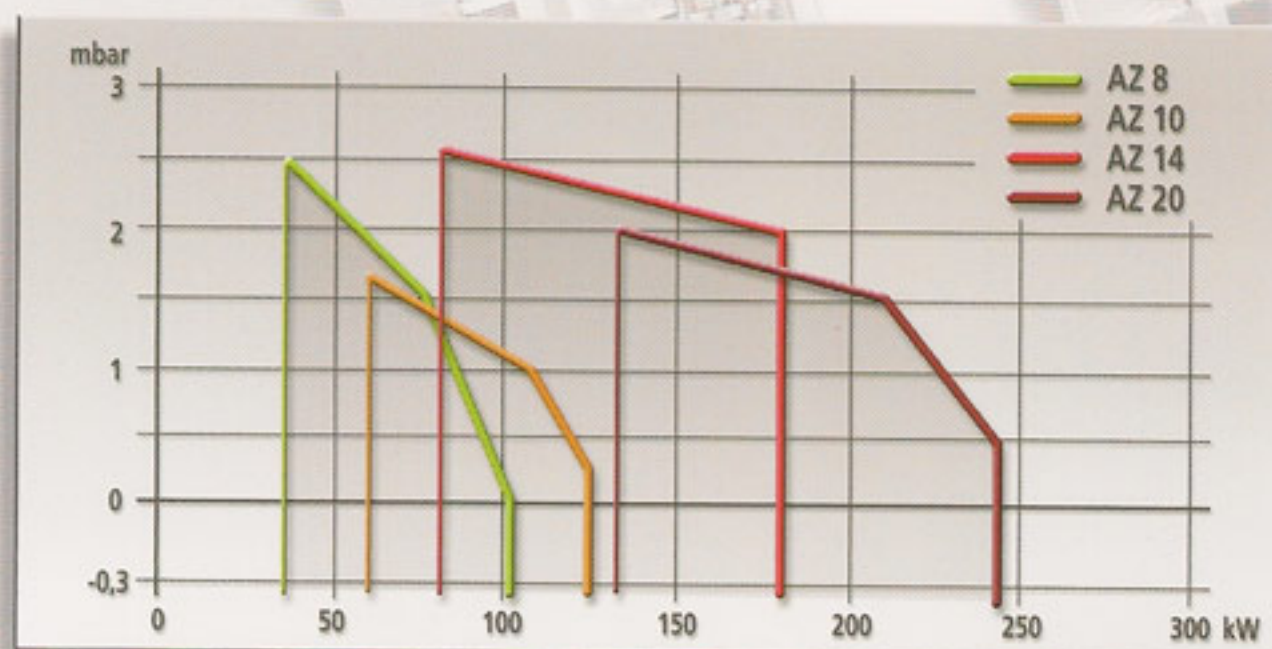
The above graph is the tested performance of the burners according to national and international standards.

The max effective output of the burner is in relation to the heat generators furnace counterpressure.

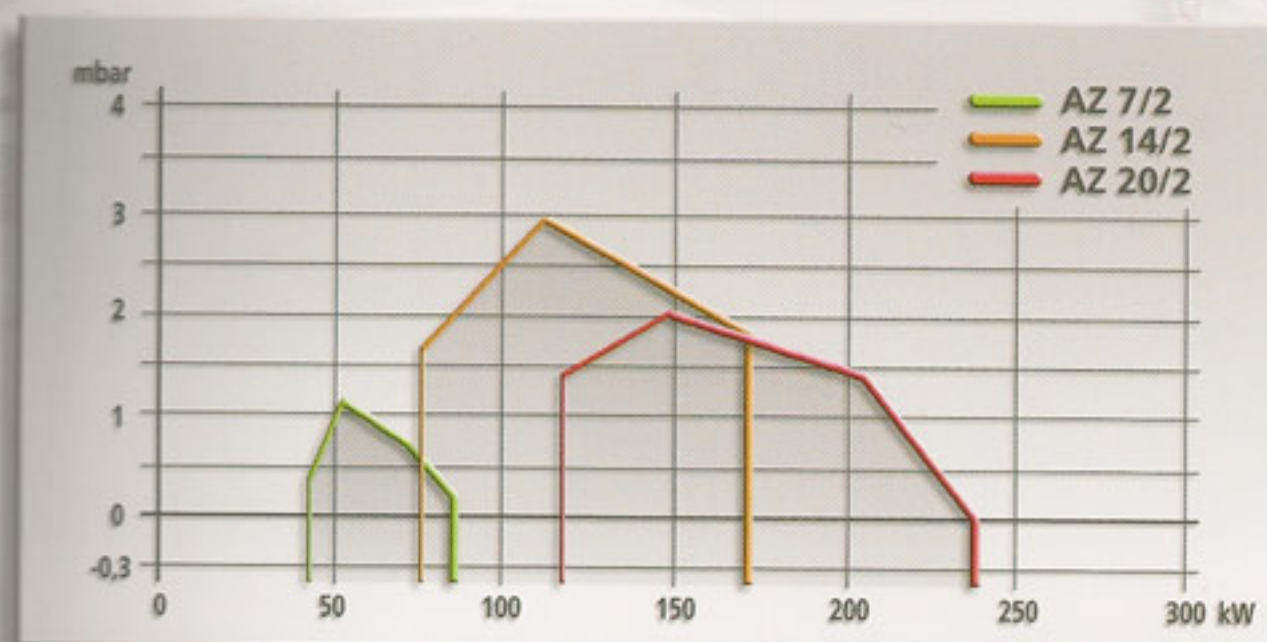
TECHNICAL DATA

MODELS		AZ 2.9 PR	AZ 3 PR	AZ 4 PR
CAPACITY	(min/max) kW	14,2 / 35,6	14,2 / 35,6	21,3 / 53,4
	(min/max) kcal/h x 10 ³	12,2 / 30,6	12,2 / 30,6	18,3 / 45,9
FUEL CONSUMPTION	(min/max) kg/h	1,2 / 3	1,2 / 3	1,8 / 4,5
POWER SUPPLY		monoph. 230V - 50 Hz	monoph. 230V - 50 Hz	monoph. 230V - 50 Hz
MOTOR	W	100	100	100
NOZZLE	GPH	0,30 / 0,85	0,30 / 0,85	0,60 / 1,25
PUMP PRESSURE	bar	12	12	12
CONDENSER	µF	4	4	4
IGNITION TRANSFORMER	kV-mA	8-20	8-20	8-20
AIR SHUTTER		manual adjustment completely closed	manual adjustment completely closed	manual adjustment completely closed

SINGLE STAGE BURNERS



TWO STAGES BURNERS



TECHNICAL DATA

AZ 2.9	AZ 3	AZ 4	AZ 8	AZ 10	AZ 14	AZ 20	AZ 7/2	AZ 14/2	AZ 20/2
16,6/35,6 14,3/30,6	16,6/35,6 14,3/30,6	21,3/53,4 18,3/45,9	35,6/100,8 30,6/86,7	59,3/124,5 51/107,1	83/175,5 71,4/150,9	128/249 110,1/214,2	47,4/86,6 40,8/74,5	83/175,5 71,4/150,9	118,6/237,2 102/204
1,4/3	1,4/2,8	1,8/4,5	3/8,5	5/10,5	7/14,8	10,8/21	4/7,3	7/14,8	10/20
monoph. 230V - 50 Hz	monoph. 230V - 50 Hz	monoph. 230V - 50 Hz	monoph. 230V - 50 Hz	monoph. 230V - 50 Hz	monoph. 230V - 50 Hz	monoph. 230V - 50 Hz	monoph. 230V - 50 Hz	monoph. 230V - 50 Hz	monoph. 230V - 50 Hz
100	100	100	100	100	185	185	100	185	185
0,40/0,75	0,40/0,65	0,50/1,10	0,75/2,00	1,25/2,50	1,75/3,50	2,50/5,00	0,85/1,50	1,75/3,00	2,25/4,00
12	12	12	12	12	12	12	10/18	10/18	10/18
4	4	4	4	4	5	5	4	5	5
8-20	8-20	8-20	8-20	8-20	10-30	10-30	10-20	10-30	10-30
manual adjustment completely closed	manual adjustment completely closed	manual adjustment completely closed	manual adjustment completely closed	manual adjustment completely closed	manual adjustment completely closed	manual adjustment completely closed	adjustment by servomotor	adjustment by servomotor	adjustment by servomotor

ENERGY SAVING

The air shutter automatically closes when the burner stops and this forbids cold air flow in the boiler. This means energy saving for the user.

HIGH EFFICIENCY OF FAN

A new conception of scroll and conveyor profiles guarantees high pressure values of combustion air; the burner is therefore fit for work on any kind of heat generator, even with semi-pressurised combustion chamber.

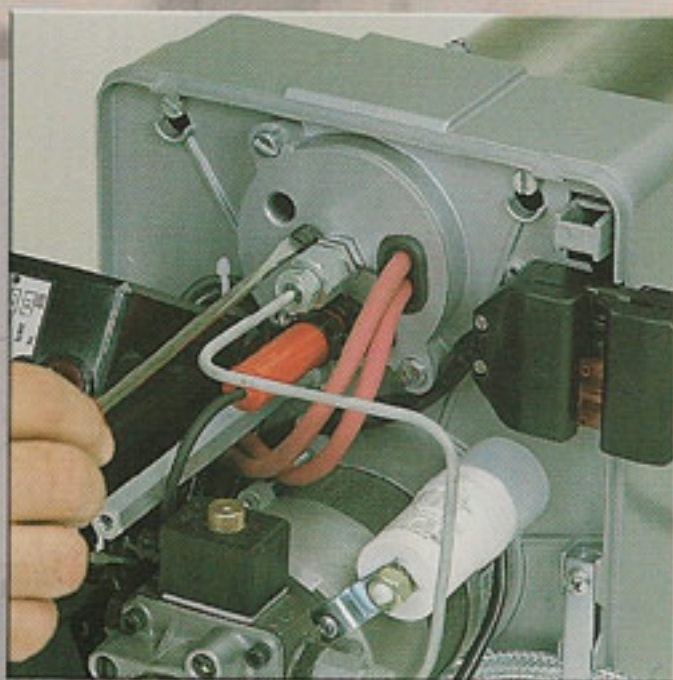
EASY AND PRECISE ADJUSTMENT

of combustion, thanks to the particular structure of the combustion head and of the deflecting disk, adjustable by a tool even when the burner is working. This permits to optimise the combustion parameters in the most critical working conditions.

The easy access micrometric screw device permits a steady and precise air adjustment.

FLAME STABILITY

The high fan prevalence, the air adjustment on the deflecting disk, the high blending speed permit a safe ignition and a stable burner working.



COMBUSTION EFFICIENCY

The innovating features and the particular structure of the combustion head assure a high combustion efficiency at the start and during the working.

ANTI-DRIP DEVICE

The conformation of the hydraulic circuit permits the immediate and total fuel interception whenever the burner stops.

EASY ACCESS

- the cover is removable to make the burner maintenance easier;
- the component cover can be removed in case of total overhaul;
- a hanging device permits to work easily on the burner.

SECURITY AND EASY INSTALLATION

A universal flange permits to install the burner onto the boiler by only one screw. A self-protected, external multi pin plug allows easy and quick electrical connections; the plug disconnection permits to operate safely on the burner.

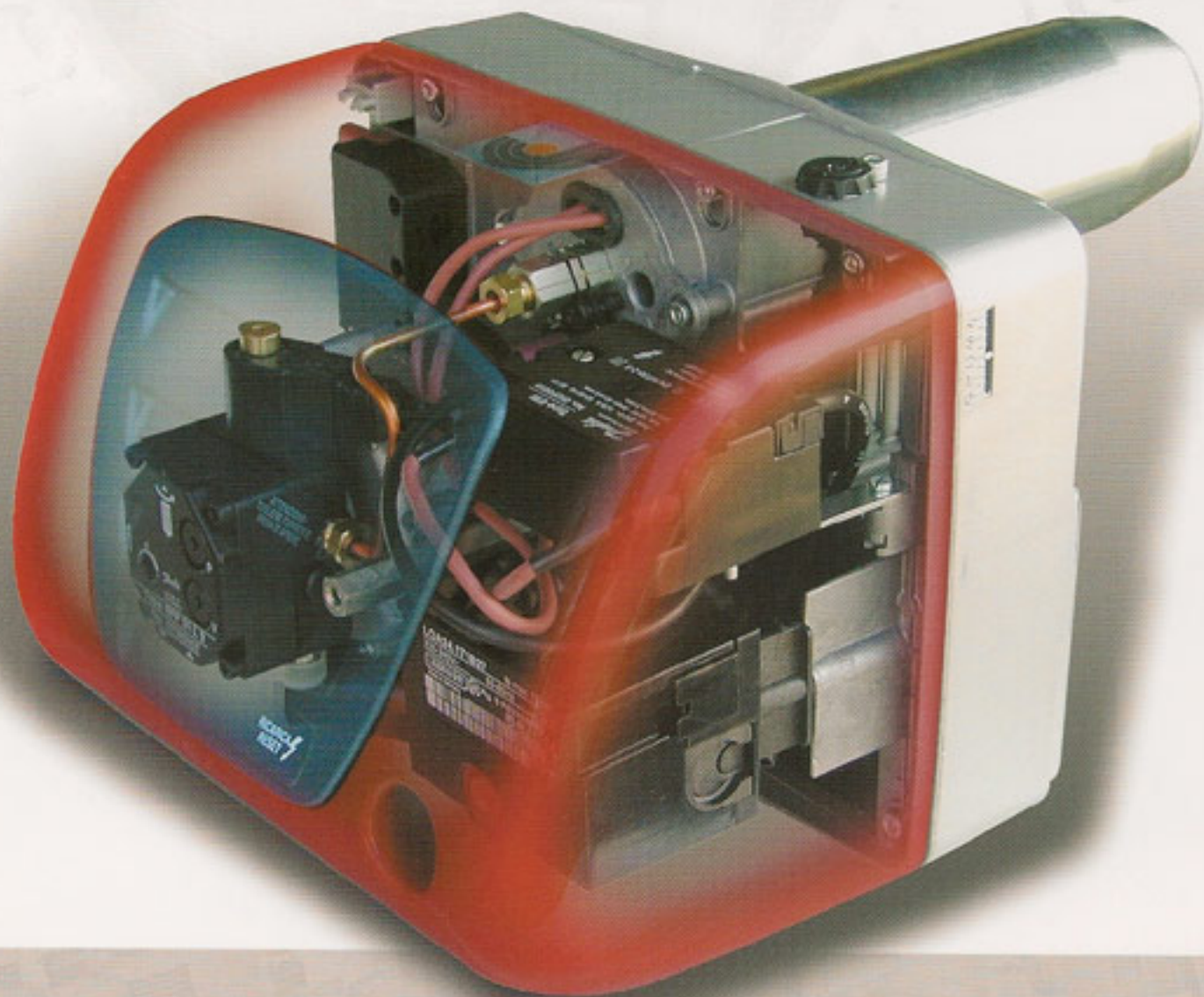
A locking device positions the fuel flexible pipes in the right seat, preserving them from any possible damage.

LOW NOISE

The external air inlet makes the burner exceptionally noiseless even at peak working.

RELIABILITY

The die cast aluminium body, the combustion head and the stainless steel deflecting disk, the components quality, the high manufacture standard, the severe production tests guarantee the burner high reliability.



LOW CAPACITY OIL BURNERS

WEIGHT AND DIMENSIONS (Kg and mm)

MODELS WITH PRE-HEATING

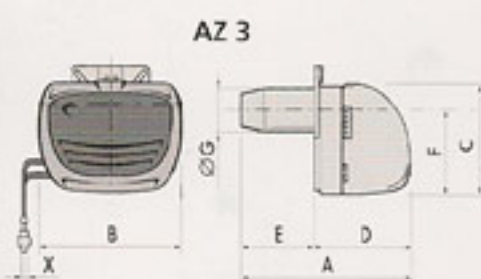
	A	B	C	D	E	F	Ø G	Ø H	L	N	X	PACKING DIMENSIONS (mm)	WEIGHT (Kg)
AZ 2.9 PR	320	250	215	230	90	160	80	135 ÷ 160	85	-	3/8"	450x340x310	11,2
AZ 2.9 PR/L	370	250	215	230	140	160	80	135 ÷ 160	85	-	3/8"	450x340x310	11,5
AZ 3 PR	320	250	215	230	90	160	80	135 ÷ 160	85	-	3/8"	450x340x310	11,2
AZ 3 PR/L	370	250	215	230	140	160	80	135 ÷ 160	85	-	3/8"	450x340x310	11,5
AZ 4 PR	448	210	265	328	120	212	80	85 ÷ 140	85	160	3/8"	515x290x370	11

SINGLE STAGE MODELS

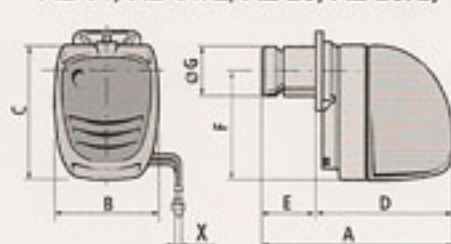
	A	B	C	D	E	F	Ø G	Ø H	L	N	X	PACKING DIMENSIONS (mm)	WEIGHT (Kg)
AZ 2.9	320	250	215	230	90	160	80	135 ÷ 160	85	-	3/8"	450x340x310	11,0
AZ 2.9/L	370	250	215	230	140	160	80	135 ÷ 160	85	-	3/8"	450x340x310	11,3
AZ 3	323	294	218,5	236	87	167,5	80	85 ÷ 140	85	160	3/8"	450x355x270	10
AZ 3/L	323	294	218,5	236	87	167,5	80	85 ÷ 140	85	160	3/8"	450x355x270	10
AZ 4	448	210	265	328	120	212	80	85 ÷ 140	85	160	3/8"	515x290x370	10,8
AZ 8	465	230	285	345	120	232	89	90 ÷ 140	95	160	3/8"	555x290x370	11,6
AZ 10	483	230	285	358	125	232	114	110 ÷ 150	120	180	3/8"	555x290x370	12,2
AZ 14	525	275	340	400	125	274	114	110 ÷ 150	120	180	3/8"	640x345x400	16
AZ 14/LP	685	275	340	400	285	274	114	110 ÷ 150	120	180	3/8"	760x360x440	18,5
AZ 20	535	275	340	400	135	274	114	110 ÷ 150	120	180	3/8"	350x650x420	17
AZ 20/L	700	275	340	400	300	274	114	110 ÷ 150	120	180	3/8"	360x760x440	19

TWO STAGES MODELS

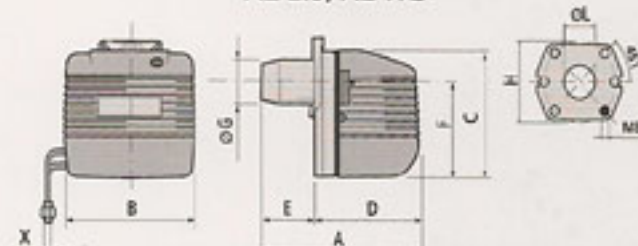
	A	B	C	D	E	F	Ø G	Ø H	L	N	X	PACKING DIMENSIONS (mm)	WEIGHT (Kg)
AZ 7/2	410	280	247	270	140	195	90	140 ÷ 180	95	-	3/8"	440x310x290	13,5
AZ 14/2	525	275	340	400	125	274	114	110 ÷ 150	120	180	3/8"	640x345x400	16
AZ 14/2 LP	685	275	340	400	285	274	114	110 ÷ 150	120	180	3/8"	760x360x440	8,5
AZ 20/2	535	275	340	400	135	274	114	110 ÷ 150	120	180	3/8"	760x360x440	17
AZ 20/2 L	700	275	340	400	300	274	114	110 ÷ 150	120	180	3/8"	760x360x440	19



AZ 4 PR, AZ 4, AZ 8, AZ 10,
AZ 14, AZ 14/2, AZ 20, AZ 20/2,



AZ 2.9, AZ 2.9 PR
AZ 2.9, AZ 7/2



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