

# ELECTRIC BOOSTER



## USES :

THE purpose of TOP INDUSTRIE boosters is to increase the pressure of a gas. They work for gases entering the booster with a minimal pressure of at least 25 bar, and can increase the pressure at exit point to up to 3500 bar.

Both one stage and two stage boosters exist. A special version which is suitable for use with hydrogen is also available.

Pneumatic versions of these devices exist for use in an ATEX environment.

## FEATURE :

- Rotation speed : 323 tr / mn.
- 1000 bar cylindrical head : 3,24cm<sup>3</sup>.
- 3500 bar cylindrical head: 1 cm<sup>3</sup>.
- HP Tubing : 1/8" or 1/4".

	ELECTRIC POWER	WHEIGHT
1 HEAD	2,2 kw ; 400 V ; 50Hz	103 kg
2 HEADS	3 kw ; 400 V ; 50 Hz	162 kg

MAXIMAL PRESSURE	NUMBER OF TIERS	NUMBER OF HEADS	ASPIRATION PRESSURE		HYDROGEN REFERENCE	STANDARD REFERENCE
			bar (mini)	bar (maxi)		
1 000	1	1	25	120	619 15 00	609 15 00
3 500	1	1	50	190	619 16 00	609 16 00
3 500	2	2	25	100	619 17 00	609 17 00
1 000	2	2	25	120	619 18 00	609 18 00

- Gas is not contaminated thanks to double membrane.
- All parts of the booster which come into contact with the gas are made from stainless steel.
- Can be used with inert gases (hydrogen is optional).
- Each membrane head is protected from excess pressure by a safety valve.
- Very quiet booster
- Gear pump allows compressor to be used in most positions.
- Driven by a notched belt pulley
- We recommend that a filter (Ref No 920 90 00) be used at the booster entrance.

## OPTIONS :

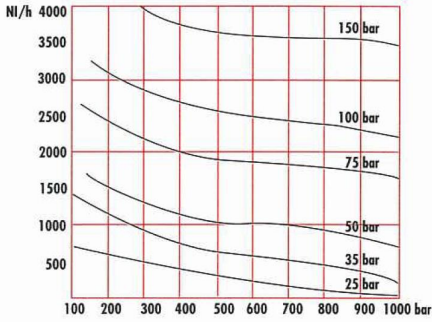
- Control unit which can control the compressor and booster and keep the pressure between 2 selected values.
- Programming unit for one or more pressure ramp slopes and one or more tiers
- Can be grouped together on a moveable chassis



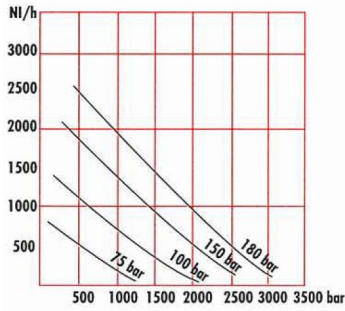
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## FLOW CURVES

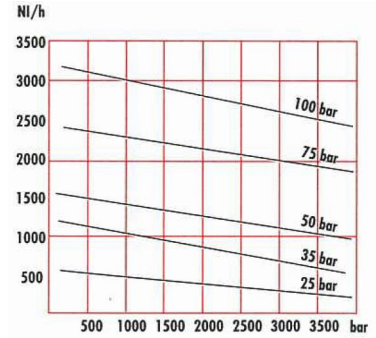
**BOOSTER 1000 bar 1 TIER**



**BOOSTER 3500 bar 1 TIER**

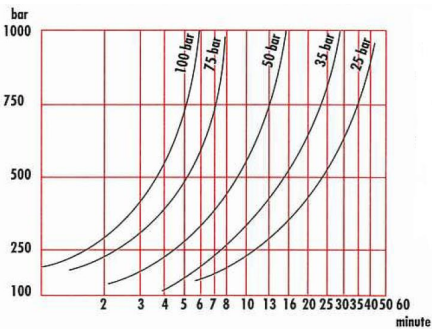


**BOOSTER 3500 bar 2 TIER**

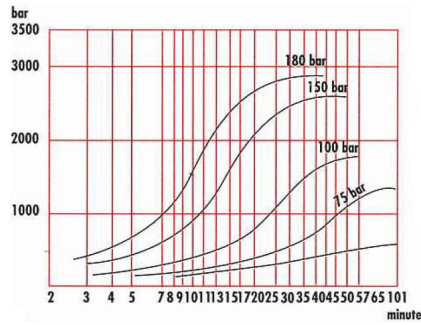


## TIME NEEDED TO RAISE A VOLUME OF 1 LITRE TO A GIVEN PRESSURE

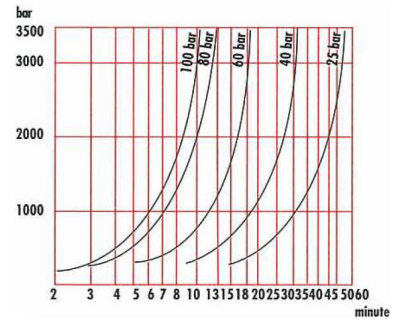
**BOOSTER 1000 bar 1 TIER**



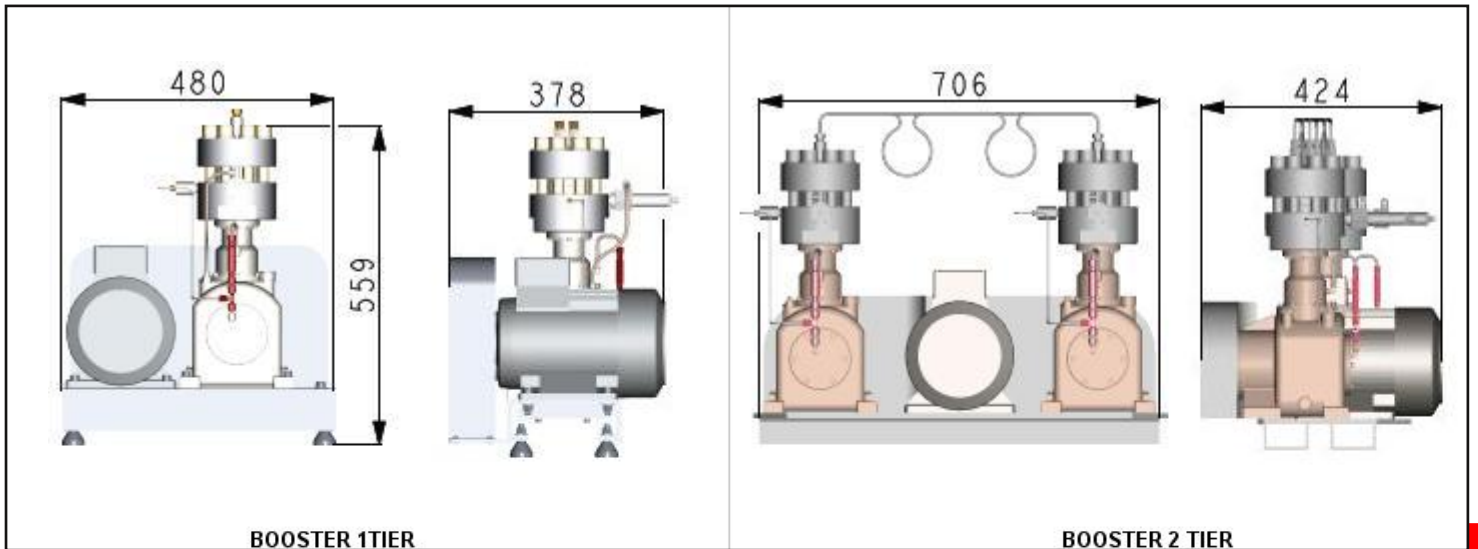
**BOOSTER 3500 bar 1 TIER**



**BOOSTER 3500 bar 2 TIER**



The rates at which pressure increases, has been measured using 92m<sup>3</sup> of nitrogen at 20°C



In view of possible technological advances in our production methods, the products described in this manual are liable to be modified without prior notice.

