DATA SHEET OF HIGH PRESSURE BOOSTER COMPRESSOR FOR AIR, NITROGEN AND INERT GASES

HIGH PRESSURE BOOSTER BON2-55-350 COMPRESSOR

TECHNICAL DATA FOR COMPRESSOR BLOCK:

GAS ALLOWED:	AIR, NITROGEN, INERT GAS
NOMINAL PRESSURE MAX:	350 BAR adjustable by safety valve
WORKING PRESSURE:	300 BAR adjustable by electronic panel
CAPACITY:	Refer Fig. 1b
SPEED:	1350 RPM
NUMBER OF COMPRESSION STAGE:	2
NUMBER OF CYLINDERS:	3
INTAKE TEMPERATURE:	-10 to +45 °C
AMBIENT TEMPERATURE:	-15 to + 45 °C
MAX POWER CONSUMPTION:	5,5 kW
Ø 1° STAGE (N°2)	32 mm
Ø 2° STAGE (N°1)	14 mm
STROKE	40 mm

Fig. 1a

PERFORMANCE DATA FOR COMPRESSOR BLOCK:

INLET PRESSURE	*bar*	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**
FAD	*L/min*	140	190	250	310	360	420	480	550
	m³/h	8,4	11,4	15	18,6	21,6	25,2	28,8	33
	cfm	4,9	6,7	8,8	10,9	12,7	14,8	16,9	19,4
RPM	*1/min*	1350	1350	1350	1350	1350	1350	1350	1350
ELECTRIC MOTOR	*kW*	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5
POWER CONSUMTION	*kW*	3,2	3,3	3,5	3,6	3,7	3,9	4,1	4,3

Fig. 1b

TECHNICAL DATA FOR PRIME MOVER:

VOLTAGE:	230/400 (+/- 10%)
CERTIFICATION:	CE
TYPE:	THREE PHASE ELECTRIC
POWER:	5,5 kW - 7,5 HP
SPEED:	2940 1/min
ENCLOSURE:	IP54
FREQUENCY:	50Hz - 60Hz
ENERGY EFFICIENCY:	IE 3
OTIONAL:	SOFT-START

SUCTION:

- Gas connection: G1'F
- Intake pressure monitored by pressure transmitter
- Shut-off solenoid valve
- Intake pressure of stock monitored by pressure transmitter

INLET PRESSURE:

- Inlet pressure between 3 Bar to 11 Bar
- Pressure transmitter able start, stop and alarms of max and min pressure of compressor,
- If you need to install a pressure reducing valve, be sure it has a capacity equal to or greater than 700 l/min - 42m3/

INTERSTAGE SEPARATOR AND AUTOMATIC CONDENSATE DRAIN:

- Each stage is equipped with its own condensate separator, for a total of two separators and a filter molecular final (PAC 3)
- The separators are connected to the automatic condensate drain
- The drain of condensate / oil is done automatically during the work cycle of the booster
- The time that elapses between a drain and the other is adjustable via the control panel
- The condensate drain is connected to a tank of external recovery

COMPRESSORBLOCK:

- Oil pump for force feed lubrification with oil filter
- Oil pump: 3,5 lt.
- Interstage coolers, air cooled after each stage
- Safety valve after each stage
- Final pressure safety valve
- Pressure maintaining and check valve before compressor outlet
- Fill of oil
- Final pressure gauge
- Automaticatic Level oil alarm

COMPRESSOR UNIT:

- Compressor with vertical rear cooling air intake and hot air outlet from the top
- Frame and painting suitable for exposure to the sun and weather
- Frame mounted on anti-vibration
- Frame soundproofed with sound-absorbent with a level of noise of about 72dB (A)
- Control panel with integrated electronic
- High pressure outlet G¼ for filling housing connection
- Color Gray RAL 7016

ELECTRONIC CONTROL PANEL:

- Easy to use and programming
- Illuminated display with hour meter, differential pressure and maximum pressure set
- Equipped with safety alarms
- AUTOMATIC mode or MANUAL, for the automated storage of gas or for a single use
- Temperature control of the head last compression stage, and possibly alarm if the temperature is too high
- Check motor electric current in case of low or insufficient
- Ability to integrate soft-start
- Key START and EMERGENCY visible
- Alarm for molecular replacement cartridge when empty
- Alarm service when needed
- Possible setting ° C / ° F
- Possibile setting Bar, MPa, Psi
- Control valve inlet and automatic condensate drain
- Pressure control input and output
- Checking the oil level automatic
- Easy setting of maximum and minimum pressure of work
- Possibility of remote control

PURIFICATION SYSTEM PAC 3:

- Equipped with pressure maintenance valve in the filter, for a better quality of purification
- Equipped with non-return valve to maintain the pressure in storage without the need for additional check valves
- Filters for a longer filter life
- Filters designed, manufactured and tested in accordance with Directive PED 2014/68/UE
- Easy cartridge replacement system when saturated