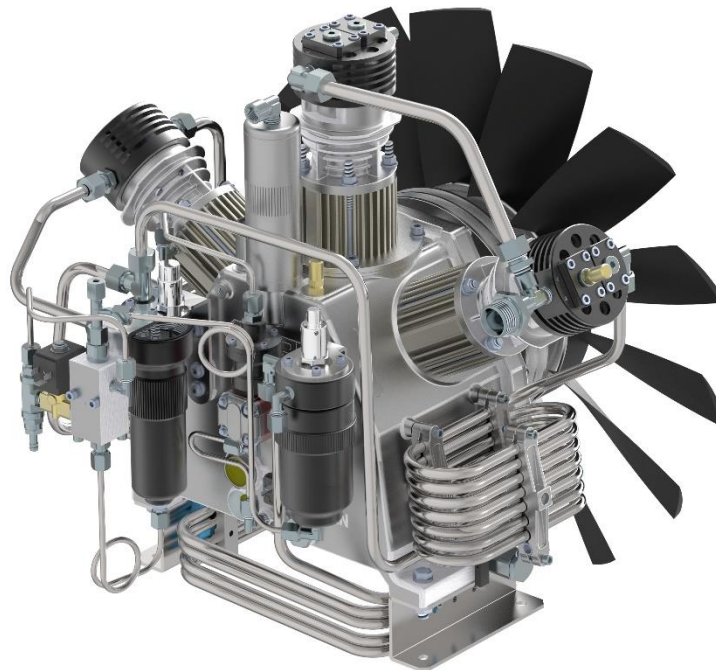


**DATA SHEET OF HIGH PRESSURE BON2-140-350  
FOR AIR, NITROGEN AND INERT GAS**



## HIGH PRESSURE BON2-140-350 COMPRESSOR

### TECHNICAL DATA FOR COMPRESSOR BLOCK:

GAS ALLOWED:	AIR, NITROGEN, INERT GAS
NOMINAL PRESSURE MAX:	350 bar - 5100 PSI adjustable by safety valve
WORKING PRESSURE:	350 bar - 5100 PSI adjustable by electronic panel
CAPACITY:	Ref. Fig. 1b
SPEED:	1250 RPM
NUMBER OF COMPRESSION STAGE:	2
NUMBER OF CYLINDERS:	3
INTAKE TEMPERATURE:	15 to 115 °F
AMBIENT TEMPERATURE:	60 to 115 °F
MAX POWER CONSUMPTION:	11 kW
Ø 1° STAGE (N°2)	32 mm - 1,26 in
Ø 2° STAGE (N°1)	16 mm - 0,63 in
STROKE	55 mm - 2,17 in

Fig. 1a

### PERFORMANCE DATA FOR COMPRESSOR BLOCK:

Fig. 1b

INLET PRESSURE	<i>bar</i>	4	5	6	7	8	9	10	11	12	13	14	15
	<i>psi</i>	58	73	87	101	116	130	145	160	175	190	200	217
FAD	<i>L/min</i>	350	450	500	650	700	800	900	1000	1100	1200	1300	1400
	<i>m³/h</i>	21,0	27,0	30,0	39,0	42,0	48,0	54,0	60,0	66,0	72,0	78,0	84,0
	<i>cfm</i>	12,4	15,9	17,7	23,0	24,7	28,2	31,8	35,3	38,8	42,4	45,9	49,4
RPM	<i>1/min</i>	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250
ELECTRIC MOTOR	<i>kW</i>	6,8	7,2	7,6	7,9	8,3	8,7	9,1	9,4	9,8	10,1	10,4	10,8

### TECHNICAL DATA OF PRIME MOVER :

VOLTAGE:	230/400 V
CERTIFICATION:	CE
TYPE:	THREE PHASE ELECTRIC
POWER:	11 kW - 15 HP
SPEED:	2950 RPM
ELECTRICAL CURRENT:	47 / 19.5 A
FREQUENCY:	50Hz - 60Hz
ENERGY EFFICIENCY:	IE 3
INCLUDED ACCESSORY:	SOFT-START

**SUCTION:**

- Gas connection: G1'
- Intake pressure monitored by a pressure transmitter
- Shut-off solenoid valve
- Particle filter (option)
- Intake pressure monitored by an external pressure switch (option)

**INLET PRESSURE:**

- Inlet pressure between 4 Bar to 15 Bar / 58 psi to 217 psi
- Pressure transmitter and pressure switch to Start and Stop compressor
- If you need to install a pressure reducing valve, be sure it has a capacity equal to or greater than 1400 l/min - 90m<sup>3</sup>/h - 49,7 cfm

**INTERSTAGE SEPARATOR AND AUTOMATIC CONDENSATE DRAIN:**

- Each cylinder is equipped with its own condensate separator, for a total of three separators and a molecular final filter (double PAC 3)
- The separators are connected to the automatic condensate drain
- Draining of condensation / oil is done automatically during the working cycle of the booster
- The drain timing is adjustable on the control panel
- The condensation drain is connected to an external ecofriendly condensate collection tank

**COMPRESSOR BLOCK:**

- Oil pump for force feed lubrication with oil filter
- Oil consumption: 3,5 lt. – 0,93 gal(US)
- Inter-stage coolers, air cooled after each stage
- Safety valve after each stage
- Final pressure safety valve
- Pressure maintaining and check valve before compressor outlet
- Filling of oil
- Final pressure gauge
- Automatic oil level alarm

**COMPRESSOR UNIT:**

- Compressor with vertical rear cooling air intake and hot air outlet from the top
- Closed frame and painting suitable for exposure to sun and weather
- Frame mounted on anti-vibration feet
- Frame is soundproofed - approximate level of noise 72dB (A)
- Control panel with integrated software program
- High pressure outlet G $\frac{1}{4}$  for filling connection
- Color of chassis Grey RAL 7016

#### ELECTRONIC CONTROL PANEL:

- Easy to use and setting
- Illuminated display with hour meter, differential pressure and maximum pressure set
- Safety alarms
- AUTOMATIC mode or MANUAL, for the automated storage of gas or for a single use
- Temperature control of last compression stage head, alarm if the temperature is over the limit
- Checking of motor in case of low or insufficient electric current
- Integrated soft-start
- START and EMERGENCY buttons positioned externally
- Alarm for replacement of filter cartridge
- Alarm indicating overhaul service time
- Selection between ° C / ° F
- Selection between Bar, MPa, Psi
- Control valve inlet and automatic condensate drain
- Pressure control input and output
- Automatic oil level control
- Easy setting of maximum and minimum working pressure
- Possibility of remote controller

#### PURIFICATION SYSTEM DOUBLE PAC 3:

- The control panel is equipped with a filter control system. A temperature sensor installed on the PAC3 filter automatically calculates the life duration of the molecular sieve cartridge, with an alarm alerting when it is time for its replacement.
- with pressure maintenance valve in the filter, for a better purification quality
- with non-return valve to maintain the pressure in storage without the need of extra check valves
- 2 filters for a longer filter life
- Filters designed, manufactured and tested in accordance with Directive PED97 / 23 / EC
- Easy cartridge replacement system when saturated