

## TECHNICAL SPECIFICATION OF PORTABLE BREATHING AIR COMPRESSOR

**Purpose.** The portable breathing air compressor will be used for charging diving air bottles, breathing apparatus, BASCA and Emergency Life Support Apparatus (ELSA). The breathing air compressor will be fitted with purifier and charging facility.

### a. AIR COMPRESSOR

S.No	Particulars	Description
1.	Type of Compressor	Electric Driven Breathing HP Air Compressor
2.	Model	To be mentioned/LWT300E
3.	Marker	To be mentioned (USA/UK/Italy/Japan/Australia/Germany)
4.	Working pressure	1 <sup>st</sup> stage 2.8 bar, 2 <sup>nd</sup> stage 17 bar, 3 <sup>rd</sup> stage 76 bar (at 200 bar final pressure)
5.	Maximum pressure	350 bar (420 bar on request)
6.	Number of cylinder	4
7.	Number of stage	4
8.	Charging rate	1300 liters/min
9.	Free air delivery	1300 liters/min
10.	Inlet condition	Atmospheric
11.	Speed (rpm)	985 $min^{-1}$
12.	Drive	V-belt
13.	Lubrication	Splash
14.	Compressor oil	Synthetic
15.	Maximum permissible inclination of compressor	5
16.	Method of cooling	Air cooled
17.	Vibration isolate	Unit mounted on a solid frame, designed to be easily portable, shock absorbers for free standing installation.

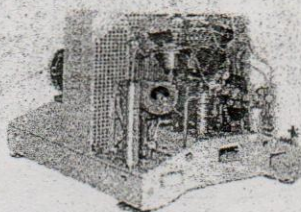
### b. Motor

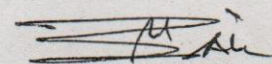
1.	Type	Squirrel cage rotor
2.	Brand/ Model	To be mentioned
3.	Marker	To be mentioned (USA/UK/Italy/Japan/Australia/Germany)
4.	Power supply	Compressor 400V, 50HZ, 3 phase (special windings on request)
(a)	Power in KW	37 kW
(b)	RPM	985 $min^{-1}$
(c)	Motor Cooling	Air cooled
(d)	Insulation class	F
(e)	Power Factor	0.8
(f)	Rating	Continuous duty
(g)	Ingress protection	IP 55 (TEFC)
(h)	Motor protection	Overload & over/ under voltage trip

c. **Overall Dimension:** 1590 mm x 1210 mm x 1260 mm (D x L x H)

d. **Weight:** Approx. 1000 kg

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