



AIR COMPRESSION AT VERY HIGH PRESSURE

STANDARD HIGH-PRESSURE COMPRESSOR PACKAGES FOR LEAK TESTING

STANDARDISED SOLUTIONS

High-pressure air / N₂ (from 150 bar to 400 bar) is used for various applications in different industries, such as fertilizer for passivation for urea stripper, power plant for switch gear application, high-pressure leak test of cylinders and bottles for natural gas (NGV), helium, hydrogen, etc.

Burckhardt Compression offers a wide range of Standard High-Pressure Compressors for compressing air up to 400 bar g.

CUSTOMER BENEFITS

- Completely skid-mounted solution with flexibility to adopt customer and country specific requirements (i.e. CE / PED, KHK, DOSH)
- Supplied with anti-vibration mounting pad for ease of installation on commercial foundation
- Air-cooled cylinders and gas coolers. No water cooling required
- Metallic rings carefully selected for compressing high-pressure air
- PLC-based control panel

STANDARD HIGH-PRESSURE COMPRESSOR PACKAGES FOR AIR COMPRESSION

TECHNICAL DATA

Type	Compressor Speed rpm	Motor Rating kW	Suction Pressure bar a	Capacity Nm ³ /hr	Shaft Power at Discharge Pressure kW			
					201 bar a	251 bar a	301 bar a	351 bar a
C5T223 L	1045	160	1.013	485	137	142	147	151
	910	150	1.013	425	115	120	124	128
	810	132	1.013	380	100	104	108	111
	720	110	1.013	340	87	90	94	97
	615	90	1.013	290	73	76	79	81

Type	Compressor Speed rpm	Motor Rating kW	Suction Pressure bar a	Capacity Nm ³ /hr	Shaft Power at Discharge Pressure kW				
					201 bar a	251 bar a	301 bar a	351 bar a	401 bar a
C5U214 L	1230	75	1.013	180	56	58	59	61	62
	1050	55	1.013	155	45	47	48	50	51
	915	45	1.013	135	38	39	41	42	43
	750	37	1.013	110	30	31	32	33	34
	615	30	1.013	90	24	25	26	26	27

Type	Compressor Speed rpm	Motor Rating kW	Suction Pressure bar a	Capacity Nm ³ /hr	Shaft Power at Discharge Pressure kW			
					201 bar a	251 bar a	301 bar a	351 bar a
C5C116 L	1365	45	1.013	115	34	36	37	38
	1215	37	1.013	95	30	31	32	33
	1075	37	1.013	90	26	27	28	29
	850	30	1.013	70	19	21	21	22
	615	18.5	1.013	50	13	14	15	16

Typical performance range (+/- 5 % tolerance) of a Standard High-Pressure Compressor package for helium applications based on suction gas temperature from 5 °C to 45 °C and ambient temperature from 5 °C to 45 °C. Certified calculation available on request.

Special solutions outside this range are also available.

Burckhardt Compression

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