



# SPECIFICATION SHEET

Product :	Electric powered lubricated Screw Air Compressor	Type : EG18 V 400V / 50HZ	Date(org) : 20/09/2023
Document category :	Marketing_EN	Revision :R01	Date(Rev): 13/05/2024
S.No.	Description	Units	Data
A	Model	-	EG 18-7.5 V      EG 18-10 V
B	TPL Number	-	S017455      S017457
1	FAD - Free Air Delivery	cfm	120.0      100.0
		m <sup>3</sup> /min	3.40      2.83
2	Working Pressure	bar.g	7.0      9.5
3	Unloading Pressure	bar.g	7.5      10.0
4	Package input power with VFD @ 100% flow	kW	22.13      23.32
		hp	29.67      31.26
5	Package input power with VFD @ zero flow	kW	0.00
		hp	0.00
6	Specific power consumption with VFD @ full load	kW/100cfm	18.44      23.32
		kW/m <sup>3</sup> /min	6.51      8.24
7	Capacity control system	-	Variable frequency drive
8	Nominal Power Supply Conditions	-	400V(+/-10%),50Hz(+/-5%),3Phase
9	Main motor rating	kW(hp)	18.5 (25.0) Normal Rating with SF1.15 Continuous duty
10	Type of motors (main drive & fan drive)	-	Squirrel cage induction - TEFC & Cooling fan integrated motor
11	Insulation and protection of main motor	-	Class F / IP 55
12	Frame size / Mounting type	-	180M / B35
13	Efficiency of main motor / Efficiency class	-	92.6% / IE3
14	Type of starter for main motor	-	Variable frequency drive
15	Fan motor rating per fan x No. of fans	kW(hp)	0.19 ( 0.25) X 2
16	Rated speed of fan motor	rpm	1363
17	Maximum allowable package current with fan at nominal power supply	A	44.6
18	Type of coupling	-	Flexible jaw coupling with snap wrap element
19	Flow rate of cooling air @ Static Pressure	cfm(m <sup>3</sup> /hr)	3400 (5777) @ 70 Pa
20	Oil recommended	-	ELGI Air Lube UT Synthetic plus
21	Capacity of separator tank(full volume)	l	18
22	Total oil fill capacity	l	10
23	Oil carry over	ppm	<1
24	Reference inlet conditions	-	1 bar (a) 20 deg C & 0% RH
25	Discharge oil temperature	°C	Minimum: Above PDP at given pr. & 90% RH
			Maximum: Ambient+62
26	Maximum allowable air temperature at outlet	°C	Ambient +10
27	Noise level of the compressor	dB(A)	69
28	Air outlet port size	inch (")	1" BSP Male Thread
29	Overall dimensions of the unit, L x B x H	mm	1500 X 821 X 1370
30	Overall dimensions with packing , L x B x H	mm	1630 X 980 X 1660
31	Package Nett. weight (dry condition)	kg	723      733
32	Package gross weight with packing	kg	773
33	Reference standard for FAD and SPC	-	ISO 1217- Annexure 'E'
34	Reference standard for Noise Level	-	ISO 2151, Second Edition
35	Reference standard for air purity	-	ISO 8573-1

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ANANTH V

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## Variable frequency drive

Working Pressure	Input Power (kW)	Capacity (cfm)	Capacity (m <sup>3</sup> /min)	Turn Down Ratio(%)	Specific Power (kW/100 cfm)	Specific Power (kW/m <sup>3</sup> /min)	Frequency (Hz)
7.0	22.13	120.00	3.40	100.00	18.44	6.51	50.00
	20.19	107.00	3.03	89.00	18.87	6.66	45.00
	18.03	91.00	2.58	76.00	19.81	6.99	40.00
	15.87	79.00	2.24	66.00	20.09	7.08	35.00
	13.79	67.00	1.90	56.00	20.58	7.26	30.00
	11.74	55.00	1.56	46.00	21.35	7.53	25.00
9.5	23.32	100.00	2.83	100.00	23.32	8.24	50.00
	21.48	87.00	2.46	87.00	24.69	8.73	45.00
	19.11	70.00	1.98	70.00	27.30	9.65	40.00
	16.95	56.00	1.59	56.00	30.27	10.66	35.00
	14.66	48.00	1.36	48.00	30.54	10.78	30.00
	12.40	40.00	1.13	40.00	31.00	10.97	25.00

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