

		ESM 7 - 11					TISESM7-11/A_50_GB		
		Technical Information Sheet					V 2		
		Air Cooled, 50Hz					01/2010		
Performance Data		ESM 7			ESM 11				
Working pressure		bar g	7.5	10	13	7.5	10	13	
Minimum working pressure		bar g	5.0						
Ambient temperature - min/max		°C	1 to 45						
Working Pressure	FAD* @ max. working pressure	m <sup>3</sup> /min	1.30	1.06	0.85	1.82	1.61	1.32	
	Total package input power* @m.w.pr.	kW	9.95	9.81	9.72	14.09	14.64	13.90	
5 bar	FAD	m <sup>3</sup> /min	1.36	1.14	0.97	1.87	1.71	1.45	
	Total input power	kW	8.43	6.94	5.90	11.73	10.77	8.65	
6 bar	FAD	m <sup>3</sup> /min	1.35	1.14	0.96	1.85	1.69	1.43	
	Total input power	kW	9.06	7.49	6.36	12.72	11.53	9.28	
7 bar	FAD	m <sup>3</sup> /min	1.32	1.15	0.94	1.83	1.67	1.42	
	Total input power	kW	9.66	8.03	6.82	13.63	12.29	10.10	
7.5 bar	FAD	m <sup>3</sup> /min	1.30	1.15	0.94	1.82	1.66	1.41	
	Total input power	kW	9.95	8.31	7.05	14.09	12.67	10.24	
8 bar	FAD	m <sup>3</sup> /min		1.13	0.93		1.65	1.41	
	Total input power	kW		8.59	7.30		13.05	10.58	
9 bar	FAD	m <sup>3</sup> /min		1.09	0.92		1.64	1.40	
	Total input power	kW		9.16	7.81		13.80	11.27	
10 bar	FAD	m <sup>3</sup> /min		1.06	0.91		1.61	1.39	
	Total input power	kW		9.81	8.31		14.64	11.96	
11 bar	FAD	m <sup>3</sup> /min			0.89			1.37	
	Total input power	kW			8.75			12.59	
12 bar	FAD	m <sup>3</sup> /min			0.87			1.34	
	Total input power	kW			9.23			13.24	
13 bar	FAD	m <sup>3</sup> /min			0.85			1.32	
	Total input power	kW			9.72			13.9	
Total input power at no load		kW	3.1	2.6	2.3	4.3	3.9	3.2	
Male rotor speed		rpm	4657	3881	3317	6472	5795	4839	
Approx. discharge temperature of air above ambient		°C	13	12	13	13	14	14	
Free field noise level **		dB(A)	70			70			
<b>Electrical Data</b>									
Nominal motor rating		kW	7.5			11			
Full load current max. @ 220V / 400V		Amp	31 / 17			47 / 24			
Starting current max. IP55 (400V)			Approx. 2.5 times full load current						
Standard drive motor detail		IP	IP55, EFF2 ECA Qualifying						
Drive motor speed		rpm	3000						
Suggested cable size @ 220V / 400V		mm <sup>2</sup>	4G 6 / 4G 2.5			4G 10 / 4G 6			
Suggested fuse rating @ 220 / 400V, time delay		Amp	35 / 20			50 / 35			
<b>Cooling Data</b>									
Ventilating fan capacity		m <sup>3</sup> /min	25			32			
Heat rejected by ventilating fan		%	max. 95% of terminal power						
Size of cooling air inlet aperture		mm	Diameter 320						
Size of cooling air outlet aperture		mm	355 x 534						
Cooling air temp above ambient approx.		°C	18			20			
Max. allowable pressure drop in duct at amb. 35°C/45°C		Pa	110 / 90			130 / 70			
<b>Weights, Dimensions and Capacities</b>									
Compressor oil capacity		litres	5						
Approx. oil carry over		mg/m <sup>3</sup>	3 - 5						
Compressed air delivery connection			EN 10226-Rp 3/4" (DIN 2999-Rp 3/4")						
Weight		kg	205			219			
Package dimensions L x W x H		mm	667 x 630 x 1050						

\* Data measured and stated in accordance with ISO 1217 4<sup>th</sup> Edition Annex C and at the following conditions:

Air Intake Pressure: 1 bar a / 14.5 psia

Air Intake Temperature: 20°C / 68°F

Humidity: 0% (dry)

\*\* Measured in free field conditions in accordance with ISO 2151, tolerance ± 3dB.

Gardner Denver policy is one of continuous improvement and we therefore reserve the right to alter specifications without prior notice.