

		ESM45			TIS ESM45/10/CE
		Technical Information Sheet			[Eng.Vers.4] 04.09.15
		Air Cooled, 50Hz			
Performance Data		ESM45			
Working Pressure		bar g	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	m3/min	8.00	7.00	6.11
	Total package input power* @max.w.pr.	kW	54.82	53.93	54.17
5 bar	FAD	m3/min	8.05	7.11	6.27
	Total input power	KW	47.57	40.96	35.66
6 bar	FAD	m3/min	8.03	7.09	6.25
	Total input power	KW	50.78	43.67	38.03
7 bar	FAD	m3/min	8.01	7.06	6.23
	Total input power	KW	53.96	46.37	40.39
7.5 bar	FAD	m3/min	8.00	7.05	6.22
	Total input power	KW	54.82	47.70	41.56
8 bar	FAD	m3/min		7.04	6.21
	Total input power	KW		49.03	42.74
9 bar	FAD	m3/min		7.02	6.19
	Total input power	KW		51.67	45.07
10 bar	FAD	m3/min		7.00	6.17
	Total input power	KW		53.93	47.38
11 bar	FAD	m3/min			6.15
	Total input power	KW			49.67
12 bar	FAD	m3/min			6.13
	Total input power	KW			51.93
13 bar	FAD	m3/min			6.11
	Total input power	KW			54.17
Total input power at no load, fan switched off		kW	14.6	12.8	10.77
Male rotor speed		rpm	4158	3661	3228.26
Approx. discharge temperature of air above ambient		°C	7	6	6
Free field noise level **		dB(A)	69		
Electrical Data					
Nominal motor rating		kW	45		
Full load Current max. @ 220V / 380V / 400V		Amp	188 / 109 / 102		
Starting Current max. IP55 (400V)			Approx. 2.5 times full load current		
Standard drive motor detail		IP	IP55 (IE-3) - IEC 60034-2-1 ECA Qualifying		
Drive motor speed		rpm	3000		
Fan motor rating		kW	1,4 (IP-54)		
Suggested cable size @ 220V / 380V / 400V		mm2	3x95PE50 / 4G50 / 4G50		
Suggested fuse rating @ 220V / 380V / 400V, time delay		Amp	200 AgL / 125 AgL / 125 AgL		
Cooling Data					
Ventilating fan capacity		m3/min	87		
Heat rejected by ventilating fan		%	max. 95% of terminal power		
Size of cooling air inlet aperture		mm	731 x 639		
Size of cooling air outlet aperture		mm	764 x 740		
Cooling air temp above ambient approx.		°C	28		
Max. allowable pressure drop in duct at ambient 35°C / 45°C		Pa	130 / 90		
Weights Dimensions and Capacities Data					
Compressor oil capacity		litres	23		
Approx.. Oil carry over		mg/m3	< 3		
Compressed air delivery connection			EN 10226 R 1 1/2 (DIN 2999-R 1 1/2)		
Weight		kg	988		
Package dimensions L x W x H		mm	1722 x 920 x 1659		

\* Data measured and stated in accordance with ISO1217 Annex C and Pneuop / Cagi PN2CPTC2 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 the Pneuop Cagi PN8TNC2.3 test code, tolerance ± 3dB.

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