

		L90 RS						TIS L90RS/CE		
		Technical Information Sheet								
		Regulated Speed, Air Cooled, 50Hz						[Eng.Vers.3] 11/18/11		
Performance Data		L90 RS								
Maximum working pressure		bar g	13.0							
Minimum working pressure		bar g	5.0							
Ambient temperature - min/max		°C	1 to 45							
			min. speed	speed 1	speed 2	speed 3	speed 4	max. speed		
5 bar	FAD* (Male rotor speed - rpm)	m³/min	4.83 (650)	7.52 (970)	10.17 (1290)	12.75 (1610)	15.24 (1930)	17.74 (2265)		
	Total input power* (P spec. - kW min/m³)	kW	30.46 (6.31)	42.66 (5.67)	54.75 (5.38)	67.50 (5.29)	81.07 (5.32)	96.17 (5.42)		
6 bar	FAD*	m³/min	4.80 (650)	7.49 (970)	10.13 (1290)	12.71 (1610)	15.19 (1930)	17.69 (2265)		
	Total input power*	kW	33.20 (6.92)	46.29 (6.18)	59.21 (5.84)	72.78 (5.73)	87.14 (5.74)	103.03 (5.82)		
7 bar	FAD*	m³/min	4.77 (650)	7.45 (970)	10.08 (1290)	12.65 (1610)	15.13 (1930)	17.63 (2265)		
	Total input power*	kW	35.86 (7.52)	49.83 (6.69)	63.58 (6.31)	77.97 (6.16)	93.13 (6.16)	109.85 (6.23)		
7.5 bar	FAD*	m³/min	4.76 (650)	7.42 (970)	10.05 (1290)	12.61 (1610)	15.09 (1930)	17.60 (2265)		
	Total input power*	kW	37.12 (7.80)	51.54 (6.94)	65.71 (6.54)	80.51 (6.38)	96.08 (6.37)	113.22 (6.43)		
8 bar	FAD*	m³/min	4.74 (650)	7.31 (960)	9.85 (1270)	12.33 (1580)	14.74 (1890)	17.15 (2210)		
	Total input power*	kW	38.33 (8.08)	52.73 (7.21)	66.85 (6.79)	81.54 (6.61)	96.96 (6.58)	113.63 (6.63)		
9 bar	FAD*	m³/min	4.72 (650)	7.09 (940)	9.44 (1230)	11.75 (1520)	14.01 (1810)	16.19 (2095)		
	Total input power*	kW	40.65 (8.62)	54.89 (7.74)	68.86 (7.30)	83.27 (7.09)	98.31 (7.02)	113.72 (7.02)		
10 bar	FAD*	m³/min	4.69 (650)	6.86 (920)	9.03 (1190)	11.17 (1460)	13.28 (1730)	15.24 (1985)		
	Total input power*	kW	42.99 (9.17)	56.86 (8.28)	70.60 (7.82)	84.61 (7.58)	99.18 (7.47)	113.48 (7.45)		
11 bar	FAD*	m³/min	5.21 (720)	7.04 (950)	8.87 (1180)	10.68 (1410)	12.48 (1640)	14.40 (1890)		
	Total input power*	kW	48.96 (9.41)	61.67 (8.76)	73.78 (8.32)	86.21 (8.07)	99.06 (7.94)	113.56 (7.88)		
12 bar	FAD*	m³/min	5.71 (790)	7.30 (990)	8.88 (1190)	10.45 (1390)	12.00 (1590)	13.58 (1795)		
	Total input power*	kW	55.45 (9.71)	67.09 (9.19)	78.04 (8.79)	89.28 (8.55)	100.86 (8.40)	113.15 (8.33)		
13 bar	FAD*	m³/min	6.21 (860)	7.55 (1030)	8.89 (1200)	10.21 (1370)	11.53 (1540)	12.76 (1700)		
	Total input power*	kW	62.52 (10.07)	72.64 (9.62)	82.34 (9.27)	92.24 (9.03)	102.42 (8.88)	112.29 (8.80)		
Total input power at no load, fan switched off				kW	12					
Male rotor speed				rpm	650 to 2265					
Approx. discharge temperature of air above ambient (at max. power)				°C	7					
Free field noise level ** at 70% load / at 100% load				dB(A)	72 / 74 (50Hz) ; 72 / 75 (60 Hz)					
Electrical Data										
Nominal motor rating				kW	90					
Nominal voltage [tolerance] (Frequency)					380V[+10% -5%]; 400V[±10%]; 460V[±10%] (50, 60Hz)					
Full load current max. at 380V / 400V / 460V				A	224 / 213 / 185					
Starting current (max. % of full load current)				%	100					
Standard drive motor detail (ECA Qualifying)					IP55					
Drive motor speed min./max.				rpm	650 to 2265					
Fan motor rating				kW	2.5 (50Hz) (IP-54) ; 2.6 (60Hz) (IP-54)					
Suggested cable size at 380V / 400V / 460V (max.30°C / max. 50m / Copper)				mm²	3x95 PE50 / 3x95 PE50 / 3x70 PE35					
Suggested fuse rating at 380V / 400V / 460V (type gG)				A	250 / 250 / 200					
Cooling Data										
Ventilating fan capacity				m³/min	223 (50Hz) ; 197 (60 Hz)					
Heat rejected by ventilating fan (max. % of actual input power)				%	95					
Size of cooling air inlet aperture				mm	1609 x 666					
Size of cooling air outlet aperture				mm	1374 x 1119					
Approx. cooling air temperature above ambient (at max. power)				°C	27 (50Hz) ; 28 (60 Hz)					
Max. allowable pressure drop in duct at ambient 35°C / 45°C				Pa	110 / 80 (50 Hz) ; 90 / 70 (60 Hz)					
Weights, Dimensions and Capacities Data										
Compressor oil capacity				l	54					
Oil carry over				mg/m³	< 3					
Compressed air delivery connection (male screwed thread)					EN 10226-1 R 2 1/2 (DIN 2999-R 2 1/2)					
Weight				kg	2768					
Package dimensions L x W x H				mm	2337 x 1368 x 2039					

* Data measured and stated in accordance with ISO1217 4rd Edition Annex E 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 ISO 2151, tolerance ± 3dB(A).

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