



D15H / D22H / D37H

Technical Information Sheet

air cooled, 50Hz

revision 07/07

Performance Data		D15H	D15H	D22H	D22H	D37H	D37H	
		- 08A	- 10A	- 08A	- 10A	- 08A	- 10A	
Maximum working pressure	bar g	8.0	10.0	8.0	10.0	8.0	10.0	
Minimum working pressure	bar g	5.0	5.0	5.0	5.0	5.0	5.0	
Ambient temperature - min/max	°C	+ 2 / + 40						
Maximum Working Pressure	FAD*	m <sup>3</sup> /min	2.48	2.01	3.54	2.94	5.89	5.04
	Total package input power*	kW	22.57	22.62	29.88	29.87	45.03	46.14
5 bar g	FAD	m <sup>3</sup> /min	2.64	2.21	3.69	3.15	6.23	5.46
	Shaft Power excluding fan	kW	14.37	13.02	20.10	17.64	31.61	28.21
	Total input power IP55	kW	18.34	16.86	24.30	21.61	37.22	33.61
6 bar g	FAD	m <sup>3</sup> /min	2.62	2.19	3.67	3.11	6.16	5.42
	Shaft Power excluding fan	kW	15.69	13.78	21.96	19.17	33.64	30.54
	Total input power IP55	kW	19.78	17.69	26.34	23.29	39.37	36.09
7 bar g	FAD	m <sup>3</sup> /min	2.53	2.17	3.61	3.06	6.04	5.37
	Shaft Power excluding fan	kW	17.18	14.81	23.65	20.78	36.94	32.94
	Total input power IP55	kW	21.12	18.82	28.19	25.05	42.25	38.63
7.5 bar g	FAD	m <sup>3</sup> /min	2.52	2.15	3.58	3.04	6.00	5.34
	Shaft Power excluding fan	kW	17.47	15.30	24.56	21.60	37.65	34.10
	Total input power IP55	kW	21.74	19.36	29.19	25.94	43.63	39.86
8 bar g	FAD	m <sup>3</sup> /min	2.48	2.13	3.54	3.02	5.89	5.31
	Shaft Power excluding fan	kW	18.23	15.97	25.20	22.46	38.97	35.30
	Total input power IP55	kW	22.57	20.09	29.88	26.89	45.03	41.13
9 bar g	FAD	m <sup>3</sup> /min		2.08		2.98		5.20
	Shaft Power excluding fan	kW		17.11		23.82		37.56
	Total input power IP55	kW		21.34		28.38		43.53
10 bar g	FAD	m <sup>3</sup> /min		2.01		2.94		5.04
	Shaft Power excluding fan	kW		18.28		25.18		40.02
	Total input power IP55	kW		22.62		29.87		46.14
Total input power at no load incl. fan	kW	10.6	9.1	12.0	11.6	16.9	16.7	
Main rotor speed	rpm	2960						
Discharge temp. of air above ambient inlet temperature at 8 bar g	°C	14	14	17	17	15	17	
Free field noise level**	dB(A)	72	73	73	74	74	75	
<b>Electrical Data</b>								
Nominal motor rating	kW	15		22		37		
Full load Current max. (400V)	Amps	38		50		86		
Starting Current max. (400V)	Amps	95		125		195		
Standard drive motor detail		IP55, TEFC, Class F insulation						
Drive motor efficiency	%	91,3 (EFF 1)		92,2 (EFF 1)		94,3 (EFF 1)		
Drive motor speed	rpm	2960						
Fan motor rating	kW	2.2		2.2		3.0		
Fan motor detail		IP44, TEFC, EFF 2, 1390 rpm						
Suggested cable size (400V)	mm <sup>2</sup>	4 x 10		4 x 16		3 x 35 PE 16		
Suggested fuse rating (400V)	Amps	50		63		100		
<b>Cooling Data</b>								
Ventilating fan capacity	m <sup>3</sup> /min	64		91		168		
Heat rejected by ventilating fan	kW	21.5		29		44.5		
Size of cooling air inlet apertures(2)	mm	335 x 760						
Size of cooling air outlet aperture	mm	532 x 660				532 x 813		
Cooling air outlet temp. above ambient approx.	°C	17		16		13		
Max. allowable pressure drop in duct at max. ambient	mm WC	4 mm H <sub>2</sub> O @ 20°C / 0 mm H <sub>2</sub> O @ 40°C						
<b>Weights Dimensions and Capacities Data</b>								
Compressor water capacity	litres	26		27		45		
Approx. water consumption in 24 hours operation	litres	14 (@ 1 water change cycle)						
Water supply pressure - min / max	bar g	2,2 / 6,0						
Compressed air delivery connection		R 1				R 11/4		
Water drain and supply connections		2 x G 3/8						
RO and regulation filter water drain connections		2 x G 1/4						
Weight (dry)	kg	610		660		1000		
Package dimensions L x W x H	mm	1477 x 868 x 1511				1903 x 868 x 1541		

\*Data measured and stated in accordance with ISO1217 Edition 3, Annex C and Pneurop / 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 Pneurop Cagi PN8TNC2.3 test code, tolerance +/-3dB(A).

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

		D SERIES								TISD75/10				
		Technical Information Sheet								Dec-02				
		Air Cooled												
Performance Data		D75		D90		D110		D132		D150				
		08A	10A	08A	10A	08A	10A	08A	10A	08A	10A			
Maximum working pressure		bar g	8.0	10.0	8.0	10.0	8.0	10.0	8.0	10.0	8.0	10.0		
Minimum working pressure		bar g	4.0											
Ambient temperature - min		°C	0											
Ambient temperature - max		°C	45	38	45	40	45	40	45	40	45	40		
Maximum working pressure	FAD min/max	m <sup>3</sup> /min	11.13	9.46	13.81	12.12	16.75	14.83	19.93	17.67	22.87	20.99		
	Total package input power	kW	86.35	87.06	101.23	102.96	124.5	123.91	146.61	144.52	169.88	170.94		
4 bar g	FAD*	m <sup>3</sup> /min	11.39	9.84	14.12	12.58	16.94	15.12	20.22	18.11	23.21	21.50		
	Shaft Power	kW	57.82	50.13	71.41	64.19	88.07	76.79	107.89	94.38	126.57	114.34		
	Total input power IP55	kW	68.62	60.46	82.55	74.94	101.91	90.02	122.43	108.24	142.05	129.20		
5 bar g	FAD*	m <sup>3</sup> /min	11.32	9.78	14.04	12.51	16.89	15.07	20.15	18.04	23.12	21.41		
	Shaft Power	kW	62.00	54.31	75.84	68.62	93.43	82.15	113.64	100.14	133.20	120.96		
	Total input power IP55	kW	73.05	64.90	87.22	79.61	107.56	95.67	128.47	114.29	149.01	136.16		
6 bar g	FAD*	m <sup>3</sup> /min	11.26	9.71	13.96	12.43	16.85	15.02	20.07	17.96	23.04	21.33		
	Shaft Power	kW	66.18	58.49	80.27	73.05	98.79	87.51	119.40	105.89	139.82	127.58		
	Total input power IP55	kW	77.48	69.33	91.89	84.28	113.20	101.32	134.52	120.33	155.97	143.12		
7 bar g	FAD*	m <sup>3</sup> /min	11.20	9.65	13.89	12.35	16.80	14.97	20.00	17.89	22.95	21.24		
	Shaft Power	kW	70.36	62.67	84.71	77.49	104.15	92.87	125.16	111.65	146.44	134.21		
	Total input power IP55	kW	81.91	73.76	96.56	88.95	118.85	106.96	140.57	126.38	162.92	150.07		
8 bar g	FAD*	m <sup>3</sup> /min	11.13	9.59	13.81	12.28	16.75	14.92	19.93	17.82	22.87	21.16		
	Shaft Power	kW	74.54	66.85	89.14	81.92	109.51	98.23	130.91	117.41	153.06	140.83		
	Total input power IP55	kW	86.35	78.19	101.23	93.62	124.50	112.61	146.61	132.43	169.88	157.03		
9 bar g	FAD*	m <sup>3</sup> /min		9.52		12.20		14.87		17.74		21.07		
	Shaft Power	kW		71.03		86.35		103.59		123.16		147.45		
	Total input power IP55	kW		82.63		98.29		118.26		138.47		163.99		
10 bar g	FAD*	m <sup>3</sup> /min		9.46		12.12		14.83		17.67		20.99		
	Shaft Power	kW		75.21		90.78		108.95		128.92		154.07		
	Total input power IP55	kW		87.06		102.96		123.91		144.52		170.94		
Total input power at no load		kW	20.3	18.4	23.1	22.1	29.3	26.5	34.5	31.2	40.0	37.0		
1st Stage Male rotor speed		rpm	7827	7008	9381	8531	11337	10231	13433	12061	15234	14164		
2nd Stage Male rotor speed		rpm	12784	10062	14557	12264	17478	13983	20149	17163	21762	19091		
Compressed air discharge temp***		°C	27		28		25		27		28			
Free field noise level @ 1metre**		dB(A)	73		74		75		76		77			
<b>Electrical Data</b>														
Nominal Motor Rating		kW	75		90		110		132		160			
Standard drive motor detail		IP55, totally enclosed fan ventilated, service factor 1.1, motor speed 2975 rpm												
Oil pump motor detail		1.5kW, IP55, totally enclosed												
Cooling Fan motor detail		2 x 4kW, IP55, totally enclosed				2 x 5.5kW, IP55, totally enclosed								
Full load current - 220volts		amps	280		327		396		467		567			
Starting current - 220volts		amps	650		785		814		997		1973			
Full load current - 400volts		amps	161		188		227		268		343			
Starting current - 400volts		amps	378		458		473		567		1141			
<b>Cooling Data</b>														
Cooling air flow at outlet grille		m <sup>3</sup> /min	376				544							
Heat rejected by cooling fans		kW	86		103		124		147		171			
Cooling air temp. rise		°C	11		14		11		13		16			
Max. pressure drop in cooling air outlet ducting		15mm H <sub>2</sub> O												
Maximum length of cooling air outlet ducting		3 metres of straight duct plus 1 right angle bend												
Minimum cooling air outlet duct dimensions		1470mm x 590mm or equivalent cross section area												
<b>Weights Dimensions and Capacities Data</b>														
Compressor oil capacity		litres	40											
Compressed air delivery connection		Flanged DN80 BS4504 PN16 (DIN2633)												
Condensate drain connections		Automatic: 2 x G 3/8 / Manual 2 x G 1/2												
Weight - package		kg	2490		2565		2758		2816		2986			
Weight - compression element		kg	499											
Weight - IP55 motor		kg	430		505		650		730		900			
Package dimensions - LxWxH		mm	2895 x 1600 x 2050											
<b>Additional Data</b>														
* Measured and stated in accordance with ISO1217 Annex C and Pneurop/Cagi PN2CPTC2 at reference conditions														
** +/- 3db(A) according to Pneurop/Cagi test code														
*** At reference conditions - Air Intake Pressure - 1 bar a (14.5 psi a ), Air Intake Temperature - 20°C (68°F), Humidity - 0% (dry)														

