



IES Srl

Innovative Energy Solutions

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Technical Data Sheet

Compressor	iCD 7,5	
Nominal Input Power	7.5 (10)	kW (Hp)
Reference conditions		
Suction pressure	1	bar(a)
Air Inlet Temperature	20	°C
Intake Air Humidity	60	%

General data

Nominal working pressure *	bar	7.5	9.5		
	psi	109	138		
Minimum working Pressure	bar	4	4		
	psi	58	58		
Maximum working Pressure	bar	8	10		
	psi	115	145		
Ambient temperature (Min./Max.)	°C	+5 ÷ +45			
Standard Power supply (±5%)	V/ph/Hz	400/3/50			
Oil type	--	Compro XLS-46			
Oil capacity	L	4			

Working Data

F.A.D.(according ISO1217 standard) Min/Max	m ³ /min (max)	1.00	0.90		
	m ³ /min (min)	0.22	0.26		
	m ³ /h	13.2 ÷ 60	15.6 ÷ 54		
	CFM	7.8 ÷ 35.3	9.2 ÷ 31.8		
Total power at full load	kW	8.4	8.5		
Total current at full load (@400V/3/50Hz)	A	13.8	13.9		
Specific power absorption	kW/m ³ /min	11.41 ÷ 8.43	18.04 ÷ 9.43		
Shaft power at full load	kW	7.5	7.6		
Shaft power at min. speed	kW	2.1	4.1		
Air end speed	rpm (max)	3400	3000		
	rpm (min)	800	1100		
Transmission ratio		1.000	1.000		
Outlet air temperature (over ambient temperature)	°C	10 ÷ 15	10 ÷ 15		
Outlet cooling temperature (over ambient temperature)	°C	20	25		
Total heat recoverable	kJ/h	-			
Noise level at 1 mt	dB(A)	64 ± 3			
Dryer Nominal Power (if present)	kW	0.28			
Residual oil	ppm	3			

Main component data

		Main Motor	Fan Motor
Nominal Motor Power	kW	7.5 (10)	0.24
Poles no.	n°	2	2
Power factor (at full load)		0.88	-
Efficiency		92.1	Erp2015
Protection/Insulation Class/Service factor	class	IP54/F/S1	IP54/F
Shape		B5	
Max. capacity	m ³ /h	-	1400
Max. Back pressure	Pa	-	200

Dimensions for version	tank	L	-	-	270	270	500	500
	dryer	-	-	Yes	-	Yes	-	Yes
Length	mm	653	842	1184	1184	1950	1950	1950
Width	mm	565	565	606	606	606	606	606
Height	mm	855	855	1474	1474	1474	1474	1474
Weight	kg	145	175	215	245	255	285	285
Outlet Air diameter	gas	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Outlet Cooling air, AxB or Ø	mm	365x332						
Footprint	m ²	0.369						

* measured on the compressor outlet

** only upon request

*** only with tank

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Pressure	6	bar
Main rotor speed [rpm]	FAD [m3/min]	Total power [kW]
800-0%	0.28	2.50
1000-8%	0.34	2.90
1500-27%	0.47	3.70
2000-46%	0.61	4.60
2500-65%	0.75	5.60
3000-85%	0.90	6.70
3400-100%	1.01	7.50

Pressure	7	bar
Main rotor speed [rpm]	FAD [m3/min]	Total power [kW]
800-0%	0.28	2.10
1000-8%	0.33	2.60
1500-27%	0.46	3.70
2000-46%	0.60	4.90
2500-65%	0.74	6.00
3000-85%	0.89	7.20
3400-100%	1.00	8.10

Pressure	8	bar
Main rotor speed [rpm]	FAD [m3/min]	Total power [kW]
800-0%	0.27	2.1
1000-8%	0.32	2.6
1500-27%	0.45	3.9
2000-46%	0.59	5.2
2500-65%	0.73	6.5
3000-85%	0.88	7.8
3400-100%	1.00	8.8

Pressure	9	bar
Main rotor speed [rpm]	FAD [m3/min]	Total power [kW]
1025-0%	0.33	3.30
1500-23%	0.46	4.50
2000-47%	0.61	5.80
2500-71%	0.75	7.20
3000-95%	0.90	8.50
3100-100%	0.93	8.70

Pressure	10	bar
Main rotor speed [rpm]	FAD [m3/min]	Total power [kW]
1175-0%	0.36	4.30
1500-19%	0.45	5.20
2000-48%	0.60	6.50
2500-77%	0.75	7.80
2900-100%	0.87	8.80