



Salient Features and Specifications

Salient Features

Less Maintenance

A screw compressor has only two moving parts-the rotors-which do not touch each other as they are kept apart by means of a thin film of oil and hence there is not wear and tear. There are no reciprocating parts such as pistons, piston rings and connecting rods and no suction or discharge valves to be maintained.

Maximum Reliability

With only two rotors, moving at a conservative speed, screw compressors provide a level of reliability never before attained in the history of the compressor industry.

Low Discharge Temperature

The heat of compression is taken away from the point of origin to the cooler by the injected oil, and hence the discharge temperature does not exceed 90°C. No carbonized oil is therefore formed in the compressor and in the system.

Small Package

Because of the unique way in which the screw compresses the air, a complete air package is provided with modest overall dimensions.

Low Noise and Free of Vibrations

There are no reciprocating masses. There are only rotating parts which are dynamically balanced.

Long Life

Since there is no metallic contact between the rotors and the housing, and they are flooded with oil, no wear or reduction in output capacity/performance occurs even after many years of operation.

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No Loss in Capacity

There is no wear in the solid steel screws. Thus there is no loss in performance due to wear. The compressor provides the same air flow, no matter what its age is.

Pulsation-Free Flow

The continuous flow of air through the helical cavities in the screw and the continuous compression ensure pulsation-free compressed air delivery.

Air Quality

The unique tangential air-oil separation system of the compressor ensures efficient separation of oil particles with a minimal pressure drop from the compressed air-oil mixture delivered at the compression end. The tangential system ensures a consistent quality of air during normal running and unloading cycles.

Low Operating Cost

The operating cost of a screw compressor is generally less than those of other conventional machines.



Specification Sheet

Product : Oil flooded Screw Air Compressor with Two stage airends		Type: Horizon Diesel Engine driven Skid mounted Air Compressor	
No.	Description	Unit	Data
01	Model (skid mounted)		DS 900-350
02	Free air delivery	cfm (m ³ /min)	902 (25.54)
03	Working pressure	PSIG (barg)	350 (24.13)
04	No load pressure	PSIG (barg)	364.5 (25.13)
05	Airend SPL no.		X019165
06	No. of stages		Two
07	Engine make		CUMMINS
08	Engine model		KTA1150C Water cooled
09	Rated operating speed	rpm	2100
10	Min. operating speed	rpm	1100
11	Engine power output (continuous)	hp	462
12	Fuel consumption at rated condition	litres/hour	89
13	Additional assessorry on engine		NIL
14	Battery capacity, Qty.	Ah, nos.	180, 2 Nos
15	Coupling model and make		TDS/27, ESBI -
16	Flywheel housing		SAE #1
17	Fan type and diameter	Mm	SUCKER, 1118 (44")
18	Flow rate of cooling air	cfm	40,000
19	Capacity of seperator tank (full)	Ltrs	440
20	Oil fill capacity (first fill)	litres	120
21	Discharge oil temperature (Max)	Deg C	Amb + 70
22	Air outlet port size, Qty.	Inches, nos.	2½", 1
23	Overall dimensions (L x B x H) with tow bar	mm	4200x 2100 x 2690
24	TPL no.		S03063
25	GA drg. no.		220309030
26	Referance standard for FAD and SFC		ISO-1217-2009 Annex D and ISO 3046

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Specification Sheet

Product : Oil flooded Screw Air Compressor with Two stage airends		Type: Horizon Diesel Engine driven Skid mounted Air Compressor	
No.	Description	Unit	Data
01	Model (skid mounted)		DS 1100-350
02	Free air delivery	cfm (m ³ /min)	1100 (31.14)
03	Working pressure	PSIG (barg)	350 (24.13)
04	No load pressure	PSIG (barg)	364.5 (25.13)
05	Airend SPL no.		X019415
06	No. of stages		Two
07	Engine make		CUMMINS
08	Engine model		KTA-1150C Water cooled
09	Rated operating speed	rpm	2100
10	Min. operating speed	rpm	1100
11	Engine power output (Net)	hp	600
12	Engine Lube oil capacity	Lit.	59
13	Engine coolant capacity	Lit.	30
14	Fuel consumption at full load	litres/hour	112
15	Battery capacity, Qty.	Ah, nos.	180, 2 Nos
16	Coupling model and make		TDS/27, ESBI -
17	Flywheel housing		SAE #1
18	Fan type and diameter	Mm	SUCKER, 1220 (48")
19	Capacity of seperator tank (full)	Ltrs	440
20	Oil fill capacity (first fill)	litres	120
21	Temperature of outlet air (Max)	Deg C	Amb + 55
22	Air outlet port size, Qty.	Inches, nos.	2½", 1
23	Overall dimensions (L x B x H)	mm	4200x 2100 x 2690
24	TPL no.		S03064
25	GA drg. no.		220309050
26	Referance standard for FAD and SFC		ISO-1217-2009 Annex D and ISO 3046
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Specification Sheet

Product : Oil flooded Screw Air Compressor with Two stage airends		Type: Horizon Diesel Engine driven Skid mounted Air Compressor	
No.	Description	Unit	Data
01	Model (skid mounted)		DS 1100-350 (export)
02	Free air delivery	cfm (m ³ /min)	1100 (31.14)
03	Working pressure	PSIG (barg)	350 (24.13)
04	No load pressure	PSIG (barg)	364.5 (25.13)
05	Airend SPL no.		X990028
06	No. of stages		Two
07	Engine make		CUMMINS
08	Engine model		KTA-1150C Water cooled
09	Rated operating speed	rpm	2100
10	Min. operating speed	rpm	1100
11	Engine power output (Net)	hp	600
12	Engine Lube oil capacity	Lit.	59
13	Engine coolant capacity	Lit	30
14	Fuel consumption at full load	litres/hour	112
15	Battery capacity, Qty.	Ah, nos.	180, 2 Nos
16	Coupling model and make		TDS/27, ESBI -
17	Flywheel housing		SAE #1
18	Fan type and diameter	Mm	SUCKER, 1220 (48")
19	Capacity of seperator tank (full)	Ltrs	440
20	Oil fill capacity (first fill)	litres	120
21	Temperature of outlet air (Max)	Deg C	Amb + 55
22	Air outlet port size, Qty.	Inches, nos.	2½", 1
23	Overall dimensions (L x B x H)	mm	4200x 2100 x 2690
24	TPL no.		Z03093
25	GA drg. no.		035300893
26	Referance standard for FAD and SFC		ISO-1217-2009 Annex D and ISO 3046

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