



Rotary Gas Compressors for Gas Compression & Vapour Recovery

The HD series is comprised of six heavy duty watercooled machines designed for continuous running under arduous conditions, suitable for air or gas applications. Rugged construction coupled with many years of development ensures long life and high efficiency for these compressors that are available as bare shaft or complete packaged units. The simple design of the rotary vane compressor with few moving parts ensures operational reliability, low noise levels and minimal maintenance.

The sealed bearing housings with individual oil feeds, ensure complete reliability when handling wet aggressive gases. The bearing housings are completely isolated against the gas by mechanical shaft seals and viton bearing seals, allowing the bearings to always run in clean oil.

Compliant to : IGE / UP / 2

ATEX DIRECTIVE

MACHINERY DIRECTIVE

HD72-550

Gas Compressors:

Digester Gas Mixing
Gas Engine Compressors
Vapour Recovery
Burners

- The shaft is mounted on roller bearings at both ends and the rotor is axially located at the drive end by a ball bearing
- Ample waterjackets are cast into the cylinder and coverplates to give cool running and the cylinder is bored to a fine finish to ensure long vane life, and low noise levels
- The sliding vanes are manufactured from a Kevlar based material having excellent wearing properties



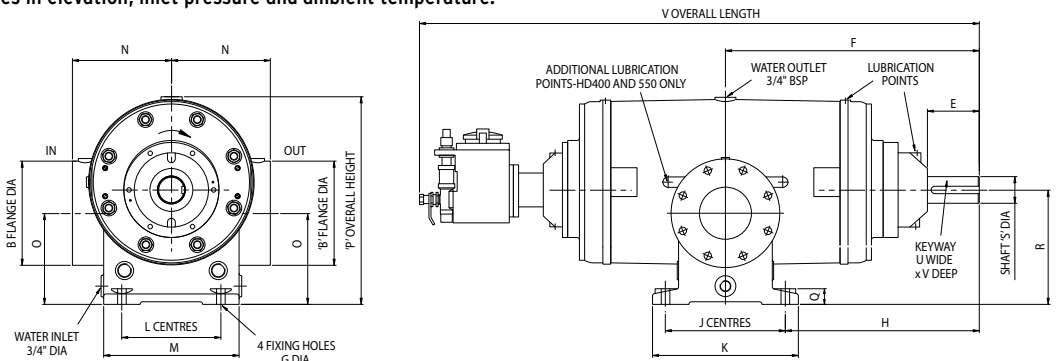
Dimensions & Performances

PRESSURE	MODEL	HD 72			HD 124			HD 220			HD 270			HD 400			HD 550			
		PSIG	BAR	RPM	1200	1400	1600	1200	1400	1600	900	1100	1300	900	1100	1300	750	850	950	750
20	1.4	cfm	48.3	56.3	64.4	82.9	96.4	110	167	204	242	205	249	295	254	294	334	348	357	449
		m ³ /hr	82	96	109	141	164	187	284	347	411	348	423	501	432	500	567	591	675	763
		kW	4.6	5.4	6.2	7.1	8.8	10.4	12.7	16.8	21.3	25.3	20.1	26.1	23.9	28.3	32.5	33.6	39.2	45.5
25	1.7	cfm	46.8	54.6	62.4	80	93.5	107	164	200	236	200	244	289	247	288	326	339	390	442
		m ³ /hr	80	93	106	136	159	181	279	340	401	340	415	491	420	489	554	576	663	751
		kW	5.2	6.0	6.9	8.2	10.0	11.7	14.5	19.4	23.9	27.9	23.5	29.8	26.1	30.6	35.4	35.8	42.5	48.9
30	2.1	cfm	45.4	52.9	60.5	77.8	90.6	103	160	195	231	196	238	282	240	282	318	331	383	435
		m ³ /hr	77	90	103	132	154	176	272	331	393	330	404	479	408	479	540	562	651	739
		kW	5.8	6.7	7.6	9.3	11.1	13.0	16.4	21.6	26.9	20.1	26.5	32.8	28.0	33.2	38.0	38.8	46.3	53.0
35	2.4	cfm	44.0	51.2	58.5	75.2	87.9	100	156	191	226	191	233	276	236	275	310	322	377	427
		m ³ /hr	75	87	99	128	149	170	265	325	384	325	396	469	401	467	527	547	641	726
		kW	6.3	7.4	8.4	10.2	12.2	14.2	18.3	23.9	29.8	22.4	29.1	36.6	29.8	35.8	41.0	41.8	49.2	56.3
40	2.8	cfm	42.5	49.5	56.6	72.8	85.0	97.0	152	186	221	186	227	269	227	269	303	314	370	420
		m ³ /hr	72	84	96	124	144	165	258	316	376	316	386	457	386	457	515	534	629	714
		kW	6.9	8.0	9.2	11.3	13.4	15.4	20.1	26.5	32.5	25.0	32.1	39.9	32.1	38.4	44.0	44.8	53.0	60.4
45	3.1	cfm	41.2	47.8	54.7	70.2	82.0	93.6	148	182	215	182	221	262	221	262	296	306	363	413
		m ³ /hr	70	81	93	119	139	159	252	309	365	309	376	445	376	445	503	520	617	702
		kW	7.5	8.7	9.8	12.3	14.5	16.7	22.4	28.7	35.4	27.6	35.1	43.3	33.9	40.7	46.6	47.7	56.3	64.2
50	3.4	cfm	39.7	46.2	52.8	67.9	79.0	90.5	145	178	210	177	216	256	214	256	288	297	356	406
		m ³ /hr	68	79	90	115	134	154	246	303	357	300	367	435	364	435	489	505	605	690
		kW	8.0	9.3	10.7	13.4	15.7	17.9	24.2	31.0	38.4	29.8	38.0	47.0	36.2	43.3	49.6	50.7	60.0	67.9

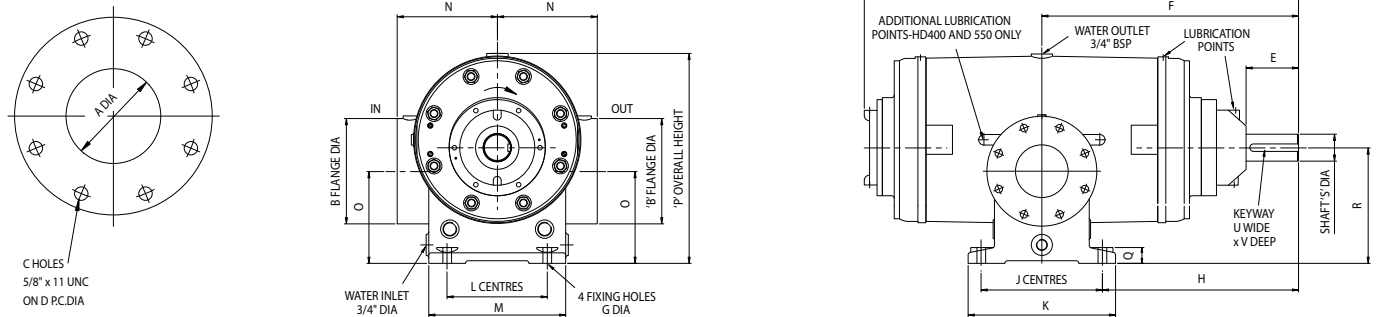
Note: All units are factory tested. Volumes listed are based on standard conditions measured on AIR at sea level, 14.7 psia (1 bara) and 60°F (16°C). Actual volumes will vary with changes in elevation, inlet pressure and ambient temperature.

DIMENSIONS

All dimensions in millimetres. Imperial shaft and flange versions are also available.



FLANGE DETAILS



MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	Kgs
HD72	50	152	4	121	89	333	14	264	140	178	191	229	152	149	333	25	195	35.019	10	5	876	511	113
HD124	50	152	4	121	89	397	14	327	140	178	191	229	152	149	333	25	195	35.019	10	5	997	639	134
HD220	80	184	4	152	108	529	19	402	254	305	216	279	191	168	391	32	216	45.001	14	7	1181	871	259
HD270	80	184	4	152	108	529	19	402	254	305	216	279	191	168	391	32	213	44.988	14	7	1181	871	250
HD400	125	254	8	225	127	619	21	473	292	356	241	330	241	222	508	38	284	65.029	18	7	1356	1035	510
HD550	125	254	8	225	127	619	21	473	292	356	241	330	241	222	508	38	279	65.011	18	7	1356	1035	494

Whilst the details contained in this leaflet are representative of the machines, the actual products may differ from the illustrations due to improvements in design. Certified copies and performance curves will be supplied on request.

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