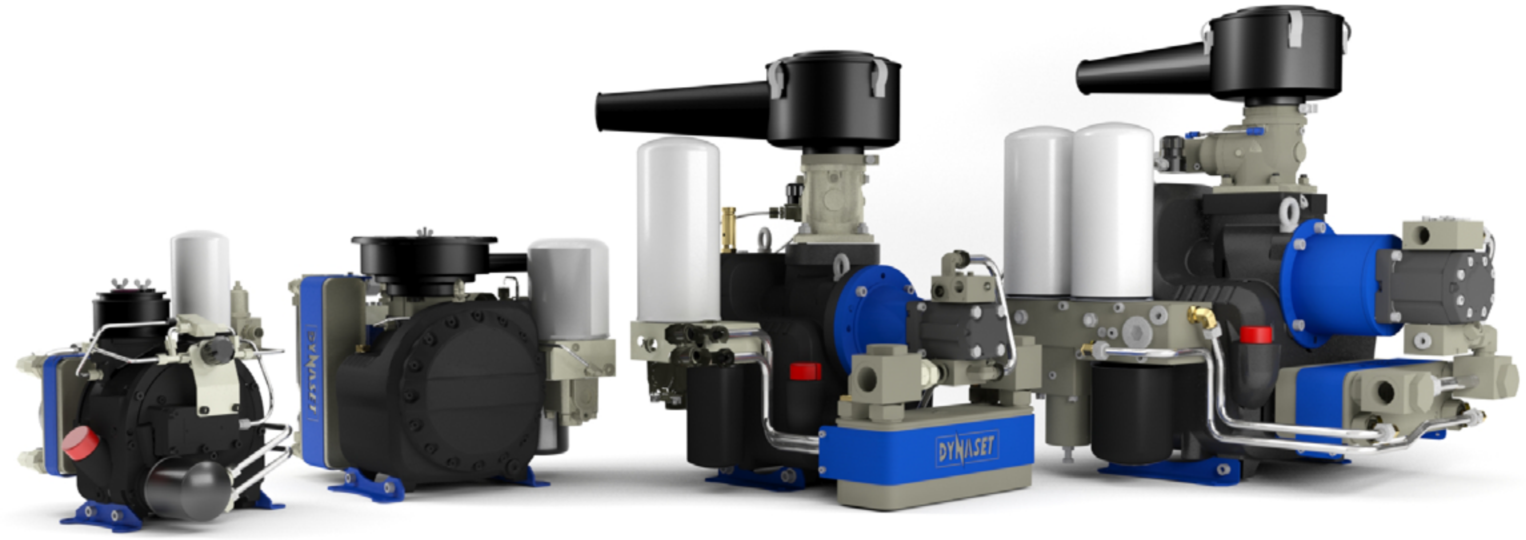
POWERED BY HYDRAULICS



DATA SHEET
HYDRAULIC SCREW COMPRESSORS

rev 1.3

HKR 500 /10-29
HKR 600 /15-26
HKR 800 /10-43

HKR 1300 /10-30
HKR 2000 /10-53
HKR 2500 /10-67
HKR 4000 /10-104

HKR 5000 /10-137
HKR 7500 /10-183
HKR 11000 /10-184
HKR 11000 /10-270

HYDRAULIC SCREW COMPRESSOR

DYNASET HKR hydraulic screw compressors are compact and integrated all-in-one units, especially designed for mobile installation. The only power source needed is a hydraulic system of base machine which provides compressor the required hydraulic flow and pressure.

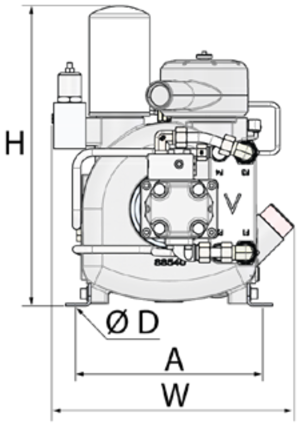
HKR compressor converts the hydraulic power into high quality compressed air and it can be installed in almost any working machine.

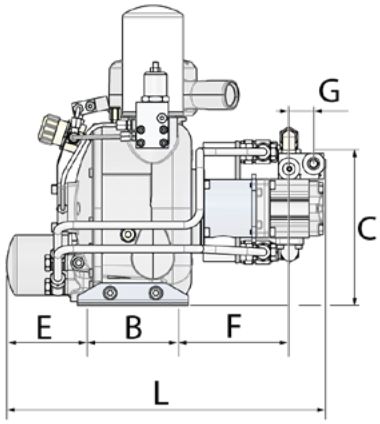
The power-to-size ratio of the hydraulic compressor is excellent. In most cases, it can replace the old fashioned and clumsy towed compressor unit – with only a fraction of size and weight.

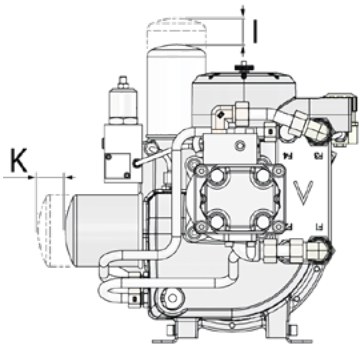
The compressor produces high quality compressed air which are used to power for example pneumatic tools, filling tires, air flushing, purge air protection equipments, cleaning equipments and CAFS foam generation.

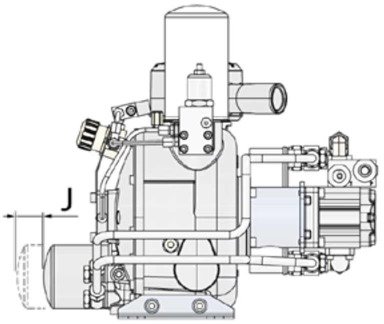
The trouble free hydraulic compressor starts reliably and needs no extra fuel. It will serve a long time – with far less need for maintenance compared to a towed compressor unit of same power level.

DIMENSIONS









MODEL	DIMENSIONS, mm (in)										Space required for filter demounting, mm (in)			WEIGHT
	L	W	H	A	B	C	D	E	F	G	I	J	K	kg (lbs)
HKR 500 /10-29	450 (17.7)	350 (13.8)	390 (15.4)	288 (9.0)	140 (5.5)	218 (8.6)	13 (0.51)	125 (4.9)	165 (6.5)	53 (2.1)	240 (9.5)	-	15 (0.6)	43 (94.8)
HKR 600 /15-26	490 (19.3)	371 (14.6)	461 (18.1)	288 (9.0)	140 (5.5)	275 (10.8)	13 (0.51)	125 (4.9)	170 (6.7)	38 (1.5)	240 (9.5)	25 (1.0)	-	43 (94.8)
HKR 800 /10-43	450 (17.7)	350 (13.8)	390 (15.4)	288 (9.0)	140 (5.5)	218 (8.6)	13 (0.51)	125 (4.9)	165 (6.5)	53 (2.1)	240 (9.5)	-	15 (0.6)	43 (94.8)
HKR 1300 /10-37	490 (19.3)	455 (17.9)	453 (17.8)	285 (11.2)	176 (6.9)	275 (10.8)	13 (0.51)	75 (3.0)	180 (7.1)	60 (2.4)	240 (9.5)	-	-	74 (163.1)
HKR 2000 /10-53	490 (19.3)	455 (17.9)	453 (17.8)	285 (11.2)	176 (6.9)	275 (10.8)	13 (0.51)	75 (3.0)	180 (7.1)	60 (2.4)	240 (9.5)	-	-	74 (163.1)
HKR 2500 /10-67	490 (19.3)	455 (17.9)	453 (17.8)	285 (11.2)	176 (6.9)	275 (10.8)	13 (0.51)	75 (3.0)	180 (7.1)	60 (2.4)	240 (9.5)	-	-	74 (163.1)
HKR 4000 /10-104	650 (25.6)	520 (20.5)	574 (22.6)	160 (6.3)	160 (6.3)	390 (15.4)	13 (0.51)	143 (5.6)	249 (9.8)	37 (1.5)	240 (9.5)	-	-	137 (302.0)
HKR 5000 /10-137	670 (26.4)	520 (20.5)	574 (22.6)	160 (6.3)	160 (6.3)	390 (15.4)	13 (0.51)	143 (5.6)	249 (9.8)	37 (1.5)	240 (9.5)	-	-	137 (302.0)
HKR 7500 /10-183	779 (30.7)	622 (24.5)	722 (28.4)	423 (16.7)	210 (8.3)	416 (16.4)	14 (0.55)	191 (7.5)	286 (11.3)	53 (2.1)	240 (9.5)	-	-	270 (595.2)
HKR 11000 /10-184	1603 (63.1)	799 (31.5)	946 (37.2)	484 (19.1)	150 (5.9)	761 (30.0)	17 (0.7)	464 (18.3)	443 (17.4)	66 (2.6)	240 (9.5)	150 (5.9)	-	377 (831)
HKR 11000 /10-270	1618 (63.7)	799 (31.5)	946 (37.2)	484 (19.1)	150 (5.9)	761 (30.0)	17 (0.7)	464 (18.3)	459 (17.4)	66 (2.6)	240 (9.5)	150 (5.9)	-	382 (842)

PARAMETERS

		HKR 500 /10-29	HKR 600 /15-26	HKR 800 /10-43	HKR 1300 /10-37	HKR 2000 /10-53
DISCHARGE CHARACTERISTICS						
Flow rate max. at ref. conditions *	**l/min (cfm)**	500 (17.7)	600 (21.2)	800 (28.3)	1300 (45.9)	2000 (70.6)
Pressure max.	**bar (psi)**	10 (145)	15 (218)	10 (145)		
Compressed air connection	**AP**	BSP 1/2”	BSP 1/2”	BSP 1/2”	BSP 3/4”	BSP 3/4”
HYDRAULIC POWER REQUIREMENTS						
Oil flow min.	**l/min (gpm)**	19 (5.0)	16 (4.2)	21 (5.6)	27 (7.1)	30 (7.9)
Oil flow nom.	**l/min (gpm)**	29 (7.7)	26 (6.9)	43 (11.4)	37 (9.9)	53 (14.0)
Oil flow max.	**l/min (gpm)**	30 (7.9)	30 (7.9)	45 (11.9)	40 (10.6)	55 (14.5)
Pressure at nominal flow	**bar (psi)**	123 (1780)	195 (2830)	135 (1960)	205 (2970)	205 (2970)
Pressure max.	**bar (psi)**	230 (3340)	230 (3340)	230 (3340)	230 (3340)	230 (3340)
Pressure when unloaded	**bar (psi)**	80 (1160)	-	100 (1450)	130 (1890)	130 (1890)
HYDRAULIC FLUID REQUIREMENTS						
Viscosity	**cSt**	10-200 / optimum 25-35				
Temperature **	**° C (° F)**	max. 70 (158)				
Filter ratio	**µm**	25 or better				
Cooling capacity requirement	**kW**	4	5	6	7	11
COMPRESSOR OIL REQUIREMENTS						
Oil fill	**l (gal)**	2.5 (0.66)	3.5 (0.92)	2.5 (0.66)	4.9 (1.29)	4.9 (1.29)

Gallons are U.S. liquid gallons

* According to ISO 1217 (1996) at discharge pressure of 6 bar

** Depending on hydraulic fluid.

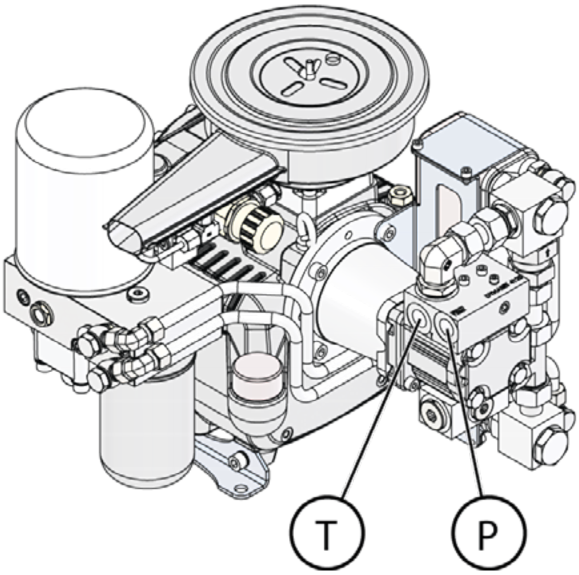
		HKR 2500 /10-67	HKR 4000 /10-104	HKR 5000 /10-137	HKR 7500 /10-183	HKR 11000 /10-184	HKR 11000 /10-270
DISCHARGE CHARACTERISTICS							
Flow rate max. at ref. conditions *	**l/min (cfm)**	2500 (88.3)	4000 (141.3)	5000 (176.6)	7500 (264.9)	11000 (388.5)	11000 (388.5)
Pressure max.	**bar (psi)**	10 (145)					
Compressed air connection	**AP**	BSP 3/4"	BSP 1"	BSP 1"	BSP 1 1/2"	BSP 2"	BSP 2"
HYDRAULIC POWER REQUIREMENTS							
Oil flow min.	**l/min (gpm)**	35 (9.3)	55 (14.5)	60 (15.9)	70 (18.5)	115 (30.4)	165 (43.6)
Oil flow nom.	**l/min (gpm)**	67 (17.7)	104 (27.5)	137 (36.2)	183 (48.3)	184 (48.6)	270 (71.3)
Oil flow max.	**l/min (gpm)**	80 (21.1)	105 (27.7)	140 (37.0)	200 (52.8)	190 (50.2)	275 (72.6)
Pressure at nominal flow	**bar (psi)**	205 (2970)	215 (3120)	210 (3050)	230 (3340)	345 (5000)	230 (3335)
Pressure max.	**bar (psi)**	230 (3340)	230 (3340)	230 (3340)	270 (3920)	380 (5500)	380 (5500)
Pressure when unloaded	**bar (psi)**	130 (1890)	140 (2030)	160 (2320)	-	-	-
HYDRAULIC FLUID REQUIREMENTS							
Viscosity	**cSt**	10-200 / optimum 25-35					
Temperature **	**° C (° F)**	max. 70 (158)					
Filter ratio	**µm**	25 or better					
Cooling capacity requirement	**kW**	13	22	27	40	-	-
COMPRESSOR OIL REQUIREMENTS							
Oil fill	**l (gal)**	4.9 (1.29)	10.8 (2.85)	10.8 (2.85)	27 (7.13)	45 (11.9)	45 (11.9)

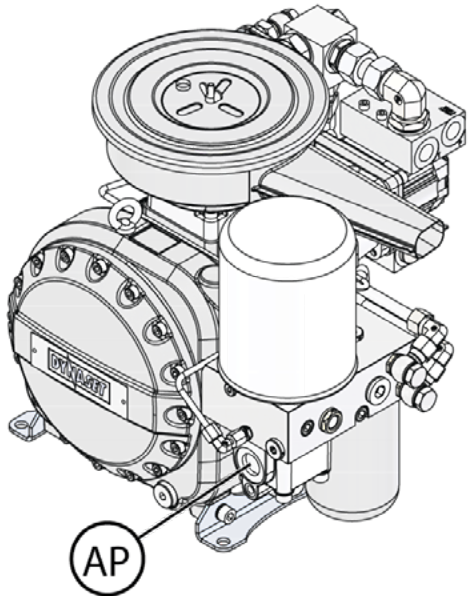
Gallons are U.S. liquid gallons

* According to ISO 1217 (1996) at discharge pressure of 6 bar.

** Depending on hydraulic fluid.

CONNECTION PORTS





MODEL	PRESSURE LINE	RETURN LINE	AIR OUTPUT CONNECTION
	P	T	AP
HKR 500 /10-29	BSP 1/2”	BSP 1/2”	BSP 1/2”
HKR 600 /15-26	BSP 1/2”	BSP 1/2”	BSP 1/2”
HKR 800 /10-43	BSP 1/2”	BSP 1/2”	BSP 1/2”
HKR 1300 /10-37	BSP 1/2”	BSP 1/2” *	BSP 3/4”
HKR 2000 /10-53	BSP 1/2”	BSP 1/2” *	BSP 3/4”
HKR 2500 /10-67	BSP 1/2”	BSP 1/2” *	BSP 3/4”
HKR 4000 /10-104	BSP 1”	BSP 1 1/4”	BSP 1”
HKR 5000 /10-137	BSP 1”	BSP 1 1/4”	BSP 1”
HKR 7500 /10-183	BSP 1”	BSP 1 1/4”	BSP 1 1/2”
HKR 11000 /10-184	G 1” - BSPP	G 1” - BSPP	G 2” - BSPP
HKR 11000 /10-270	G 1” - BSPP	G 1” - BSPP	G 2” - BSPP

* Minimum return line hose/pipe inner diameter 19mm, (3/4”).

Note! Location of connection ports variates between HKR models.

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POWERED BY HYDRAULICS

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ELECTRICITY

HG Hydraulic Generator
HGV POWER BOX Variable Hydraulic Generator System
HGV Variable Hydraulic Generator System
HWG Hydraulic Welding Generator
HGG Hydraulic Ground Power Generator

HIGH PRESSURE WATER

HPW Hydraulic High Pressure Water Pump
HPW Hydraulic Power Washer
KPL High Pressure Street Washing Unit
HPW-DUST High Pressure Dust Suppression System
PPL High Pressure Pipe Cleaning Unit
HPW-FIRE High Pressure Firefighting System
FP Fire Fighting Piercing Kit
HDF Hydraulic Drilling Fluid Pump
JPL High Pressure Bin Washing System
HSP Hydraulic Submersible Pump

COMPRESSED AIR

HK Hydraulic Piston Compressor
HKL Hydraulic Rotary Vane Compressor
HKR Hydraulic Screw Compressor

MAGNET POWER

HMG PRO Hydraulic Magnet Generator
MAG Lift Magnet
HMAG PRO Hydraulic Magnet

VIBRATION

HVB Hydraulic Vibra
HVD Hydraulic Directional Vibra
HRC Hydraulic Reversal Cylinder

POWER BOOSTING

HPI Hydraulic Pressure Intensifier
HPI-C Hydraulic Pressure Intensifier for Cylinder

KNOW-HOW

Hydraulic Power Take-off (PTO)
Hydraulic Power Unit Technology
De-Icing Technology
Installation Valves
HHK Hydraulic Grinder
HV/HVY Hydraulic Winch / Winch Unit

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