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INSTALLATION GUIDE OIL TANK

Oil Tank 36 - 120 L



INSTALLATION GUIDE

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1. **GENERAL**

DYNASET oil tank is designed to be used as an oil reservoir for DYNASET products. Compact and reliable structure enables operating in many conditions and installations.

Hydraulic oil tank is equiped with oil level sight class, temperature gauges, breather cap and drain valve for easy oil change.

Standard DYNASET Oil tanks come in 36, 60 and 120 liter sizes. Other models are available by request.

120 liter model is also available with additional cooler for reducing oil temperature. Cooler is available by request.



2. SAFETY

ATTENTION!

Operator and maintenance personnel must act in compliance with the laws, regulations and recommendations issued by the local work safety authorities.



The pressure in hydraulic circuits is considerably high. Therefore the condition of your equipment are to be kept under constant observation. All couplings, valves and hoses are to be kept tight and clean. Leaks in the hydraulic system must be repaired immediately to avoid injuries caused by high pressure and oil blowouts.



🛕 ATTENTION!

Before beginning any maintenance, repair or disassembly to the hydraulic system and DYNASET product, ensure that the system is stopped and depressurized. Make sure that the system can not start accidentally.



When carrying out any maintenance to DYNASET products keep the components clean. This is to ensure safe, reliable and longlife operation of your equipment.

When working with DYNASET products or their accessories, wear appropriate protective clothing, safety goggles, gloves, ear protection.



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3. TECHNICAL SPECIFICATIONS

		OIL TANK 36 L	OIL TANK 60 L	OIL TANK 120 L		
HYDRAULIC CONNECTIONS						
Tank line	т	1"	1 1/4"	1 1/4"		
Suction line	S	1 1/4"	2"	2 1/2		
Drain line	Dr	3/4"	3/4"	3/4"		
Cooling Line*	CL	-	-	3/4"		
OVERALL DIMENSIONS						
Volume	l (gal)	36 (9.5)	60 (15.84)	120 (31.7)		
Length	mm (in)	644 (25.4)	644 (25.4)	1050 (41.3)		
Width	mm (in)	126 (5.0)	206 (8.1)	250 (9.8)		
Height	mm (in)	665 (26.2)	671 (26.4)	620 (24.4)		
Weight	kg (lbs)	18 (16)	26 (57)	45**		

Gallons are U.S. liquid gallons

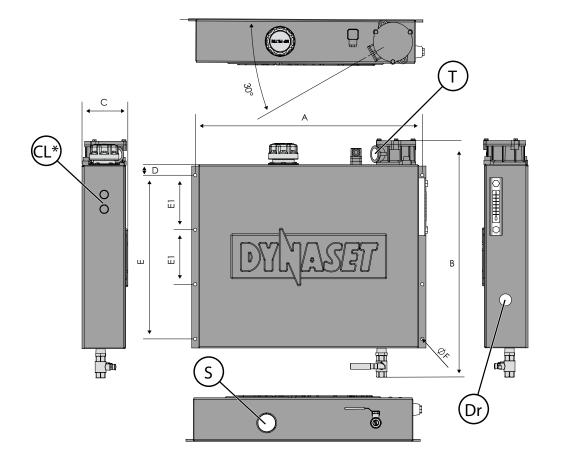
*Cooling lines only with models equiped with heat exchanger

** Without heat exchanger



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3.1. INSTALLATION MEASUREMENTS



*Only in models with additional	heat exchanger
only in models with additional	ficat exchanger

OIL TANK MODEL		36	60	120
A	mm (in)	624 (24.6)	624 (24.6)	1025 (40.3)
В	mm (in)	665 (26.2)	670 (26.4)	620 (24.4)
С	mm (in)	126 (5.0)	206 (8.1)	250 (9.8)
D	mm (in)	29 (1.1)	29 (1.1)	26 (1.0)
E	mm (in)	450 (17.7)	450 (17.7)	450 (17.7)
E1	mm (in)	150 (5.9)	150 (5.9)	150 (5.9)
F	Ømm (in)	9 (.35)	9 (.35)	9 (.35)



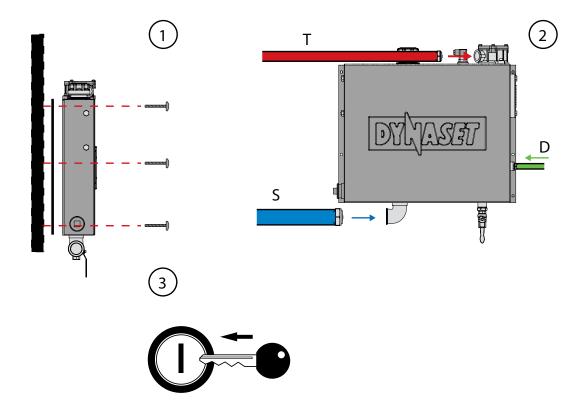
4. INSTALLATION

NOTE!

- It's recommended to use flexible and elastic elements on attachment between Oil cooler and installation platform.
- Use hydraulic hoses to connect cooler on to the hydraulic system.
- Install Oil cooler on the return line on the hydraulic system before return filter and oil tank.
- Use at least as large hose as connection ports on Oil cooler to ensure minimum pressure loss and proper cooling

After ensuring previous aspects install the Oil cooler with following instructions:

- 1. Attach cooler on the wanted platform.
- 2. Install the hydraulic hoses. Use corresponding fittings to ensure proper and leak-free connections. Build the rest of the system and fill it with hydraulic oil.
- 3. Start the working machine.
- 4. Check possible leakages.





5. MAINTENANCE

5.1. MAINTENANCE INTERVAL

All maintenance must be complied with as they are scheduled in this manual.

CHECK POINTS	DAILY / 10h	100h	750h	2 YEARS / 1500h
Hydraulic Oil Level and Quality Check	х			
Hydraulic Oil Filter Change		x*	х	
Hydraulic Oil Change (check and clean the oil level gauge)				х

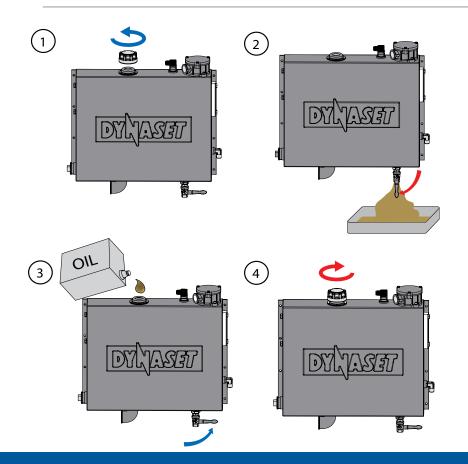
x* Only for new device after first 100h.

5.2. OIL CHANGE

Shut down the hydraulic system, depressurise it and make sure it can not be started accidentally.

ATTENTION!

Hydraulic oil is hazardous to the environment. Empty the oil tank to separate container and recycle the oil according to the local laws and regulations.



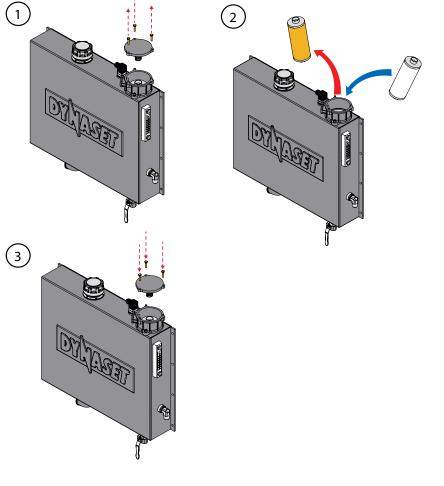


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- 1. Remove the oil cap.
- 2. Open the drain valve and empty the tank from the fluid.
- 3. Close the drain and fill the tank with new oil. Fill the container half way on the oil meter sight.
- 4. Screw the cap back on.

5.3. OIL FILTER CHANGE

Shut down the hydraulic system, depressurise it and make sure it can't be started accidentally.



- 1. Remove the filter cap
- 2. Replace the old filter with new one

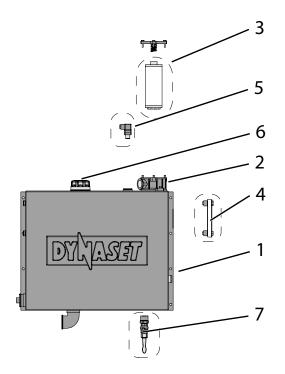
3. Close the filter cap



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6. SPARE PARTS

36 / 60



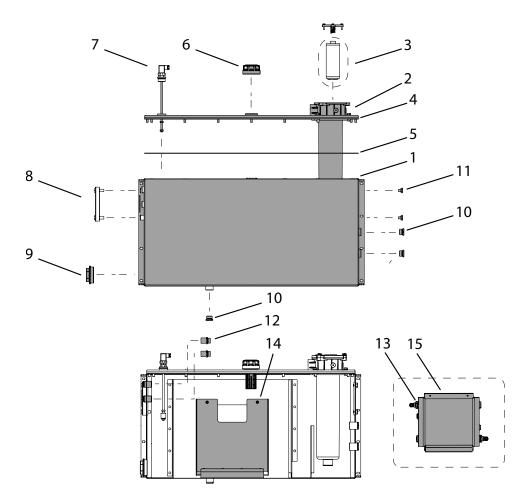
	POS.	PART NO.	QTY	DESCRIPTION	DETAILS	DETAIL 2
	1	V100610000	1	FRAME		
¥	2	V100610005	1	FILTER	Includes outer shell and inside pipe	
TANK 86L	3	V100200355	1	FILTER ELEMENT		
L T 36	4	V100610010	1	MEASURING SIGHT		
ō	5	V100610015	1	OIL LEVEL SENSOR		
	6	V100610020	1	FILLER CAP		
	7	V100610025	1	EMPTYING VALVE		
¥	POS.	PART NO.	QTY	DESCRIPTION	DETAILS	DETAIL 2
ANK	1	V100610100	1	FRAME		
L 1 60	2	V100200510	1	FILTER	Includes outer shell and inside pipe	
ō	3	V100200370	1	FILTER ELEMENT		

DYNA*SET*

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	POS.	PART NO.	QTY	DESCRIPTION	DETAILS	DETAIL 2
	1	V100610100	1	FRAME		
	2	V100200380	1	FILTER		
	3	V100200520	1	FILTER ELEMENT		
	4	V100610120	1	TOP PLATE		
	5	V100610130	1	GASKET	Top plate	
20	6	V100610020	1	BRETHER CAP		
OIL TANK 120L	7	V100610015	1	OIL LEVEL SENSOR		
Ż	8	V100610010	1	OIL LEVEL SIGHT GLASS		
TA		V100610140		PLUG AND FITTING KIT		Includes pos. 9-13
F	9	*	1	PLUG	R2 1/2	
0	10	*	5	PLUG	R3/4	
	11	*	2	SCREW	M12x12	
	12	*	2	FITTING	15L R1/2	
	13	*	2	ELBOW FITTING	15L R1/2	
	14	V100610150	1	WALL PLATE		
	15	V100605205	1	HEAT EXCHANGER	Includes all plugs	



7. MANUFACTURERS LIMITED WARRANTY

1.Warranty coverage

All hydraulic accessories manufactured by DYNASET OY are subject to the terms and conditions of this limited warranty. Products are warranted to the original purchaser to be free from defects in materials or workmanship. Exclusions from warranty are explained in item Exclusions from warranty.

2.Beginning of warranty period

Warranty period begins from the delivery date of the product. Delivery is considered to be done on the date when installation has been accomplished or purchaser has taken the product in use. Product is considered as taken in use at the date when DYNASET OY has delivered the product to purchaser, unless separately agreed otherwise by written agreement.

3.Warranty period

Warranty period is twenty four (24) months based on maximum of 2000 hours usage during this time period. In cases where the system is provided complete with certain special components (e.g. drive unit), those components are considered as a subject to their manufacturer's warranty.

4. Warranty procedures

Immediately upon identifying a problem which purchaser believes to be a failure subject to the product's limited warranty, purchaser must contact primary to the seller of the product. Contact must be made as soon as possible, latest thirty (30) days after the problem was identified. Seller and/or manufacturer technical staff determines the nature of the problem primarily by phone or e-mail. Purchaser commits to give necessary information and to perform routine diagnostic procedures in order to determine the nature of the problem and necessary procedures.

5.Warranty repairs

If the product is found to be defective during the warranty period, DYNASET OY will, at its option, either repair the product, author it to be repaired at its authorized workshop or exchange the defective product. If the product must be repaired elsewhere than premises of DYNASET OY or authorized workshop, all costs excluded from this warranty (traveling and waiting hours, daily allowance, traveling expenses and uninstallation/reinstallation costs) will be charged from the purchaser.

If the problem is not covered by this limited warranty, DYNASET OY has the right to charge purchaser of troubleshooting and repairing.

6.Delivery terms of warranty repair

If the product is found possible to be defective under this limited warranty and it needs to be repaired, DYNASET OY gives Warranty Return Number (WRN). Items being returned must be shipped, at the purchaser's cost, adequately packed for shipment, to the DYNASET OY or to other location authored by DYNASET OY. Shipment documents must contain: Purchaser's name and contact information Receipt of original purchase WRN code Problem description



7.Warranty of repaired product

Warranty period of the product repaired under this limited warranty continues to the end of original warranty period.

8.Exclusions from warranty

This warranty shall not apply to:

- Failures due to normal wear and tear, improper installation, misuse, abuse, negligence, purchaser selection of improper product to intended use, accident, improper filtration of hydraulic oil or intake water or lack of maintenance.
- Cost of maintenance, adjustments, installation or startup.
- Coating, hydraulic oil, quick couplings and interconnection hoses (internal or external to system assemblies).
- Products altered or modified in a manner not authorized by DYNASET OY in writing.
- Products which have been repaired during warranty period by others than DYNASET OY or its authorized workshop.
- Costs of any other damage or loss, whether direct, indirect, incidental, special or consequential, arising out of the use of, or the inability to use, the product.
- Telephone or other communications expense.
- Product that is used in exceptional conditions, considered to cause excessive wear and tear.
- Faults caused by nature phenomenon's like flood, thunder, etc.

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8. PRODUCT DISPOSAL

Dispose and recycle all the DYNASET products and their packaging environmentally responsible way.

Do not dispose used oils, electrical components, batteries or any other hazardous waste with normal waste. They are harmful for the environment and can be recycled for re-use.

Contact your local waste recycling facility for more information about recycling hazardous waste.

I NOTE!

Always act according to the waste legislation, regulations and recommendations in waste disposal and waste recycling issued by your local authorities.



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9. DECLARATION OF CONFORMITY

We hereby declare that the design and manufacture of the product stated below are in conformity with the provisions of the European Parliament and Councils on the harmonization of the laws of Member States on the safety of machine's.

Machine directive 2006/42/EC

LVD directive 2014/35/EU

EMC directive 2014/30/EU

RoHS directive 2011/65/EU

Applied conformity standards:

CEN EN ISO 4413: EN ISO 4413:2010 Hydraulic fluid power - General rules and safety requirements for systems and their components.

EN60204-1 Safety of machinery – Electrical equipment of machine's.

- Manufacturer: **DYNASET Oy** Menotie 3, FI-33470 Ylöjärvi, Finland
- Product group: OIL TANK
- Product: OIL TANK 36 120L

If the device has been modified by someone other than the manufacturer or without the manufacturer's permission, this declaration is not valid.

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Timo Nieminen R&D Manager Ylöjärvi, Suomi, 20.04.2016



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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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