KOHLER AEGIS.





Kohler leads the industry with a liquid-cooled engine series. Featuring a technologically advanced cooling system and revolutionary

LIQUID COOLING

air filtration, KOHLER® Aegis engines are a breakthrough in design and performance.

These powerhouses deliver cooler oil temperatures, consistent running temperatures and improved air filtering for peak engine performance and reliability. And with their compact, integrated design, KOHLER Aegis® engines bring liquid-cooled technology to applications where larger engines would not fit.



AEGIS LIQUID COOLING SYSTEM

KOHLER® Aegis engines feature liquid

cooling systems that ensure consistent flow

and superior cooling to each cylinder.

The results are less cold-start friction,

faster warm-up time, lower oil temperatures,

reduced engine wear, more power and

longer engine life.



EFFICIENT AIR FILTRATION SYSTEMS

The dual-element air filter of the vertical-shaft model (shown) features an interference fit for superior sealing plus a unique hold-down strap for faster, easier servicing. The horizontal-shaft model incorporates a heavy-duty design that continuously collects and discards trapped dust. Both engines offer reliable two-stage filters that have larger filter areas than standard air filters. They ensure cleaner combustion, maximum power and longer service intervals.



COMPACT, INTEGRATED PACKAGE

KOHLER_® Aegis engines can easily fit into unique applications. They are easy to install and feature a footprint that is interchangeable with KOHLER Command_® twin-cylinder engines.



OVERHEAD VALVE EFFICIENCY

The intake and exhaust valves of KOHLER Aegis® engines are positioned directly over the piston, providing greater volumetric efficiency and a higher compression ratio. This produces more power, improves fuel economy and cooling and reduces oil consumption. In addition, there is virtually no carbon buildup, reducing overall maintenance costs.

HYDRAULIC VALVE SMOOTHNESS

Oil-pressurized valve lifters ensure that push rods remain in constant contact with rocker arms, eliminating valve adjustment. This keeps the valve train nearly maintenance free.



USER-FRIENDLY FEATURES

In addition to all of these unique attributes, KOHLER Aegis engines boast a number of user-friendly features: dual oil drains, easy-access oil fill, low-oil protection, in-line fuel filter and either top- or low-mount connections for boden wire controls.

BEST WARRANTY IN THE INDUSTRY

KOHLER Aegis engines are backed by a three-year limited warranty. The warranty covers both consumer and commercial applications. All KOHLER engine products are supported by a worldwide network of some 13,000 dealers and distributors. Factory-trained technicians and genuine KOHLER replacement parts are available when you need them.

KOHLER AEGIS. 20 and 24 HP Vertical Engines

KOHLER_® Aegis — vertical technology

that's really making a splash.

KOHLER Aegis vertical-shaft engines combine a patented liquid cooling system and innovative air filter configuration with the proven design success of the Command_® line. Quiet-running, vertical-shaft KOHLER Aegis engines deliver peak power and torque, fuel efficiency and long engine life to the commercial turf, golf course management and consumer lawn and garden markets.



REVOLUTIONARY **RADIATOR DESIGN**

The state-of-the-art radiator design, featuring a low-profile heat exchanger, utilizes the cooling technology used in heavy-duty off-road

applications. The split-core radiator is arranged in a semicircular configuration directly below the blower housing, resulting in a robust liquid cooling system.

CONVENIENT BLOWER HOUSING

The nonmetallic blower housing of the KOHLER Aegis engine is held in place by four convenient rubber cords, eliminating tools and fasteners. Releasing the cords will loosen the blower housing for easy servicing of the air cleaner, heat exchangers and other parts within.

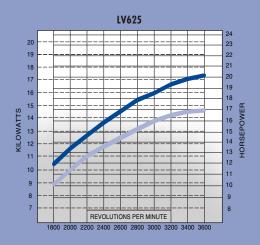


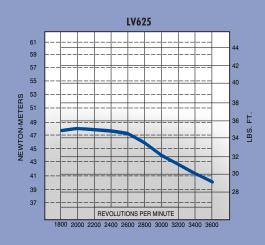
INTEGRAL WATER PUMP

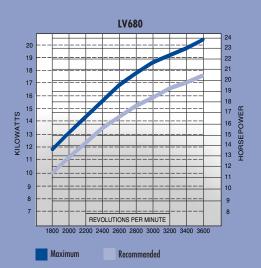
The belt-driven water pump is integral with the crankcase, resulting in a more compact design and quieter operation. The pump splits the flow of water between cylinders, allowing for a more uniform cooling process than a serial-flow cooling system.

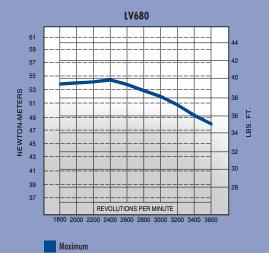
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POWER TORQUE











THE BENEFITS OF CHOOSING A VERTICAL-SHAFT KOHLER. AEGIS ENGINE:

EASY, DEPENDABLE STARTS

- A Electronic ignition system
- B Solenoid shift starter

RELIABILITY & LONG-LIFE DESIGN

- High-flow cooling fan
- Dual low-profile radiators
- Coolant thermostat
- Large-capacity, interference-fit air filter
- Multilayered steel head gaskets
- H Hydraulic valve system
- Lost foam cast cylinder heads
- Gerotor™ oil pump

PEAK POWER PERFORMANCE

- R Overhead valve, V-twin design
- Increased displacements
- M High-inertia flywheel
- Breather separator system

QUIET, SMOOTH OPERATION

- Mechanical governor
- P Silenced air intake
- Integrated belt-driven water pump

USER-FRIENDLY MAINTENANCE

- R Coolant overflow bottle
- S Heat exchanger cap
- Oil fill/dipstick with yellow cap
- Boden wire controls





Features & Benefits



Taking cool in a different direction.

The horizontal-shaft KOHLER® Aegis engine, with its automotivestyle radiator and heavy-duty air filtration system, delivers superior performance custom-made for demanding applications.

By integrating the overhead valve design of the successful KOHLER Command_® line, KOHLER Aegis engines offer optimal fuel efficiency, consistent running temperatures and quiet operation. Easy-access service points, a solenoid shift starter and a three-year limited warranty put the finishing touches on this impressive package.



KOHLER Aegis 28 HP engine with standard radiator and heavy-duty air cleaner.



oil and cylinder head temperatures and consistent running temperatures. The radiator can be positioned in both front-mount and low-mount configurations.

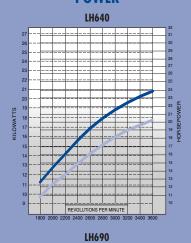
HEAVY-DUTY AIR CLEANER

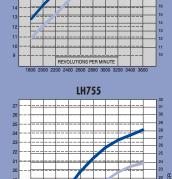
Dual filters deliver maximum performance. The main filter traps dirt and debris while the inner filter prevents carburetor contamination during main filter servicing.

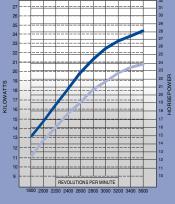


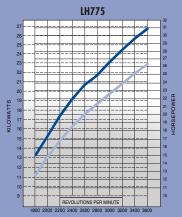
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POWER



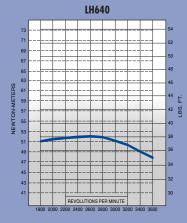


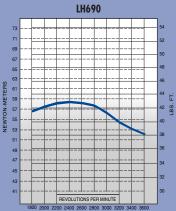


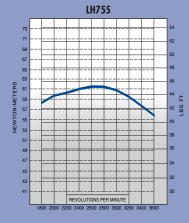


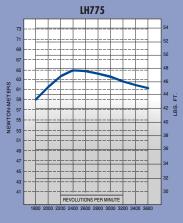
Maximum Recommended

TORQUE









Maximum

THE BENEFITS OF CHOOSING A HORIZONTAL-SHAFT KOHLER® **AEGIS ENGINE:**

EASY, DEPENDABLE STARTS

- Solenoid shift starter

RELIABILITY & LONG-LIFE DESIGN

- O
- **(1)**
- A
- G
- **(1)**
- 0
- R

PEAK POWER & PERFORMANCE

- 0
- M

USER-FRIENDLY MAINTENANCE

- Coolant overflow bottle 0
- P
- Full-pressure lubrication with spin-on filter 0
- R
- 0
- O In-line fuel filter





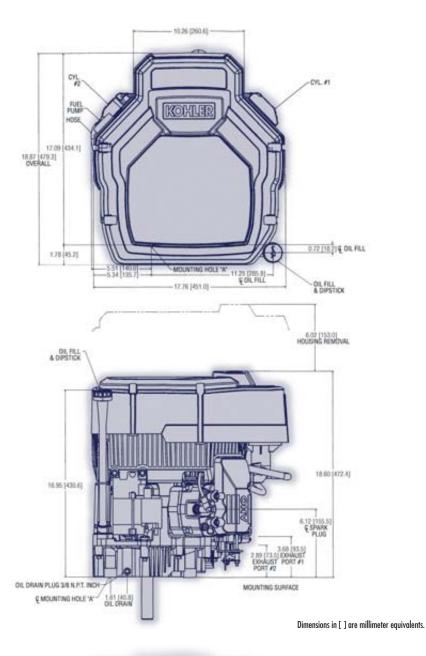


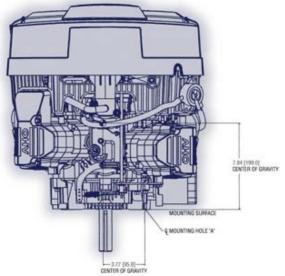


Features & Benefits



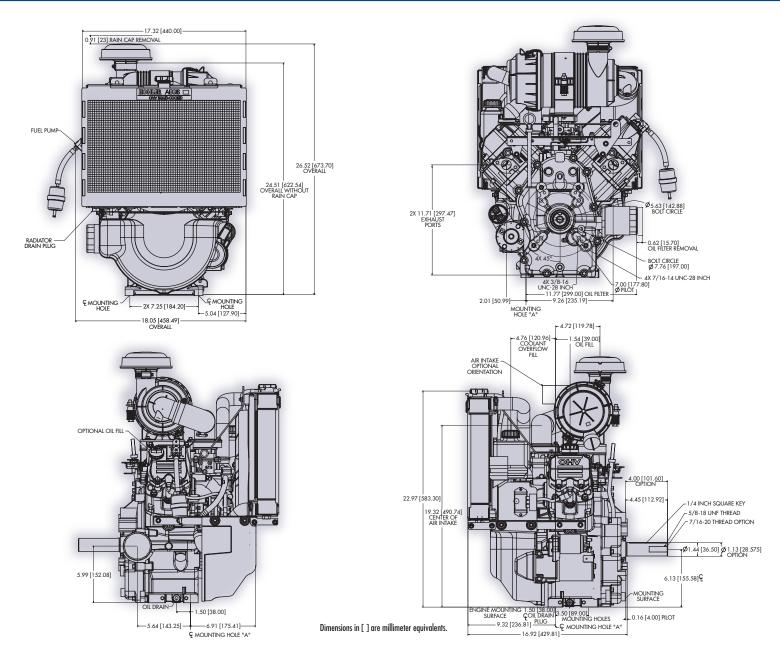
KOHLER AEGIS. Vertical-Shaft Dimensions





CRANKSHAFT/MOUNTING FACE OPTIONS DIMENSIONS: INCH [MM]					
MODEL:	LV625/680				
PTO TYPE:	STRAIGHT				
PTO DIAMETER:	1.00 [25.4]				
PTO LENGTH (TO FACE):	3.17 [80.3]				
PTO DRILL & TAP:	7/16-20 UNF-2B				
TAP DEPTH:	1.50 [38.1]				
PTO KEYWAY WIDTH:	0.25 [6.35]				
BOLT CIRCLE DIAMETER:	10.0 [254]				
NOTE: Contact your KOHLER® representative for special crankshafts or					

Horizontal-Shaft Dimensions



CRANKSHAFT/MOUNTING FACE OPTIONS DIMENSIONS: INCH [MM]												
MODEL:	LH640-690-755-775											
PTO TYPE:	STRAIGHT	STRAIGHT	SPLINE	SPLINE	SPLINE	TAPER	TAPER					
PTO DIAMETER:	1.125 [28.6]	1.437 [36.5]	1.5 [38.1]	1.5 [38.1]	1.5 [38.1]	N/A	N/A					
PTO LENGTH (TO FACE):	4.0 [101.5]	4.45 [113.2]	0.59 [14.9]	0.59 [14.9]	0.45 [11.5]	3.94 [100]	3.94 [100]					
PTO TAPER:	N/A	N/A	N/A	N/A	N/A	2.25 / F00T	1.5 / F00T					
PTO TOOTH (A & B MOUNT):	N/A	N/A	9	11	13	N/A	N/A					
PTO DRILL & TAP: Tap depth:	7/16-20 UNF2-B 1.5 [38.1]	3/8-16 UNF2-B 1.5 [38.1]	N/A N/A	N/A N/A	N/A N/A	5/16-24 UNF2-B 0.625 [15.9]	3/8-16 UNF2-B 0.94 [23.8]					
PTO KEYWAY WIDTH:	0.25 [6.35]	0.375 [9.53]	N/A	N/A	N/A	N/A	N/A					
BOLT CIRCLE DIAMETER:	5.625, 7.75	5.625, 7.75	5.625, 7.75	5.625, 7.75	5.625, 7.75	5.625, 7.75	5.625, 7.75					
PILOT DIAMETER:	7.0 [178]	7.0 [178]	N/A	N/A	N/A	7.0 [178]	7.0 [178]					
NOTE: Contact your KOHLER® representative for crankshafts or mounting faces not shown here.												

Specifications

ENGINE TYPE		Four-cycle, V-twin cylinder, liquid-cooled, vertical- and horizontal-shaft, gasoline, full-pressure lubricated with oil filter, aluminum head and crankcase with cast iron cylinder liners.					
	MODEL:	LV625	LV680	LH640	LH690	LH755	LH775
POWER @ 3600 RPM*	hp (kW) Maximum Recommended	20 (14.9) 17 (12.7)	24 (17.9) 20.4 (15.2)	24 (17.9) 20.4 (15.2)	26 (19.4) 22.1 (16.5)	28 (20.9) 23.8 (17.7)	31 (23.1) 26.4 (19.7)
DISPLACEMENT	cu. in. (cc)	38.1 (624)	41.1 (674)	38.1 (624)	41.1 (674)	45.6 (747)	45.6 (747)
BORE	in. (mm)	3.03 (77)	3.15 (80)	3.03 (77)	3.15 (80)	3.3 (83)	3.3 (83)
STROKE	in. (mm)	2.64 (67)	2.64 (67)	2.64 (67)	2.64 (67)	2.7 (69)	2.7 (69)
PEAK TORQUE @ MAXIMUM	lb. ft. @ rpm	35.4 @ 2000	40.0 @ 2400	38.3 @ 2400	42.9 @ 2400	45.4 @ 2800	47.7 @ 2400
COMPRESSION RATIO		8.5:1	8.5:1	8.5:1	8.5:1	8.7:1	8.7:1
DRY WEIGHT**	lb. (kg)	108 (49)	108 (49)	114 (51.7)	114 (51.7)	114 (51.7)	114 (51.7)
OIL CAPACITY W/FILTER	U.S. quarts (L)	2 (1.9)	2 (1.9)	2 (1.9)	2 (1.9)	2 (1.9)	2 (1.9)
DIMENSIONS W/RADIATOR*** in. (mm)	Length Width Height	18.9 (479) 17.9 (455) 18.6 (472)	18.9 (479) 17.9 (455) 18.6 (472)	17 (432) 18.1 (459) 26.5 (674)			
DIMENSIONS LESS RADIATOR**** in. (mm)	Length Width Height			14 (356) 17.8 (452) 26.5 (674)			

STANDARD FEATURES (BASIC ENGINES)

- Electronic fuel injection (LH775)
- Parallel-flow radiator (LV)
- Automotive-style radiator with high-flow cooling fan (LH)
- Radiator debris screen (LH)
- Coolant overheat switch and alarm
- Overhead valve design
- Hydraulic valve lifters
- Electronic ignition

Remote oil filter

Instrument panel (LH)

- 12 volt solenoid shift starter
- 20 amp charging, regulated

- PTO side load bearing (LH)
- High-performance spark plugs
- Accelerator pump carburetor with self-relieving choke
- Fuel shutdown solenoid
- Mechanical fuel pump (LH)
- Pulse fuel pump (LV)
- In-line fuel filter
- Closed breather system
- Heavy-duty air cleaner

- Dual-element air filtration
- Hardened crankshaft journals
- Canister muffler with heat shield, center outlet (LV)
- Stellite exhaust valves, seat inserts
- Full-pressure lubrication
- Spin-on, full-flow oil filter
- Dual oil drains
- Oil Sentry™
- High-mount controls bracket
- 3-year warranty

POPULAR FACTORY OPTIONS

- 15 amp charging, regulated Coolant-temperature gauge
- 25 amp charging, regulated Coolant installed High-oil temp cutout switch
 - RFI package
 - Low-mount controls bracket
 - Commercial grass screen (LV)
- Exhaust deflectors
- Spark arrestors
- Optional mufflers
- Crankshaft sizes



FOR MORE INFORMATION, CONTACT YOUR KOHLER SOURCE OF SUPPLY OR CALL TOLL-FREE IN THE U.S. AND CANADA 1-800-544-2444.

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