



# Kawasaki Engines for Turfcare

**Reliable. Durable. Trusted.**

Built for turfcare professionals



[kawasaki-engines.eu](http://kawasaki-engines.eu)

## We build trust

Kawasaki Engines continue to lead the way in manufacturing high performance, exceptional quality turfcare engines. With an ever-growing legacy of industry-trusted models, we nevertheless continue to innovate and improve.

From reducing debris ingestion and enhancing airflow, to developing class-leading Electronic Fuel Injection technology, we constantly look for solutions to make the power in your mower the most effective, efficient, and reliable it can be.

It's why professionals trust Kawasaki. When your profitability and reputation depend on the quality of your machinery, you need a partner that won't let you down.

The power rating of the engines indicated in this brochure is the Net power rating tested on a production engine and measured in accordance with SAE J1349. Actual power output will vary depending on numerous factors, including, but not limited to, the operating speed of the engine in application, environmental conditions, maintenance, and other variables.

Product images shown in this catalogue are for illustrative purposes only. Actual products and product specifications are subject to change.

## V-Twin Engines

The Kawasaki V-Twin range offers power solutions for a wide range of turfcare products, from residential ride-on mowers for the homeowner, to heavy-duty commercial mowers for large-scale contractors and fleets.

An innovative and continually evolving line-up, the latest FT models have been specifically engineered for superior turf debris management, suited to external applications such as zero-turn mowers. While the new FX820V EVO EFI is our latest evolution in advanced EFI engineering offering significant power density and greater fuel efficiency.

Whichever model your mower is powered by, you can be sure of outstanding reliability, steadfast durability and the professional-level performance that Kawasaki Engines stand for.



### Residential FR Series

- Lawn and garden tractors
- Zero-turn mowers



### Commercial FS Series

- Lawn and garden tractors
- Zero-turn mowers
- Front mowers



### Heavy-duty commercial FX Series

- All types of heavy-duty commercial mowers



### Commercial (high debris work environment)

#### FT Series

- Zero-turn mowers
- Stand on mowers



# FR Series

4-Stroke, Vertical Shaft, V-Twin, Overhead Valve, Air-cooled

**A high quality power solution for residential ride-on mowers, offering smooth, quiet, low-vibration running.**

- Rotating grass screen**  
 Prevents debris build-up for greater efficiency and reliability
- High performance lubrication system**  
 Maximises durability and performance
- Cast aluminium crankcase and cylinder heads**  
 Strong yet lightweight design for agile mower operation



Rotating grass screen

High performance lubrication system

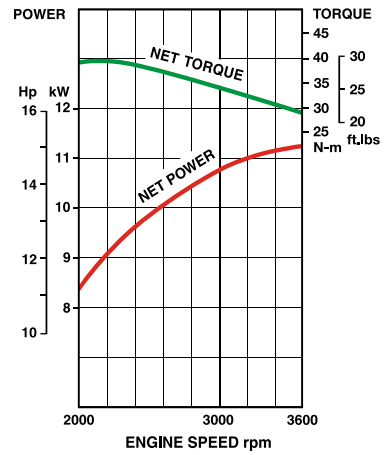
Cast aluminium crankcase and cylinder heads

Specifications		FR541V	FR600V	FR651V	FR691V	FR730V
Number of cylinders		2	2	2	2	2
Bore & Stroke	mm	73 x 72	73 x 72	78 x 76	78 x 76	78 x 76
Displacement	cm <sup>3</sup>	603	603	726	726	726
Max power	kW	11.3	12.7	14.5	15.5	16.7
	hp	15.1	17.0	19.4	20.8	22.4
	rpm	3600	3600	3600	3600	3600
Max torque	Nm	39.1	40.9	52.7	53.0	54.1
	ft.lbs	28.8	30.2	38.9	39.1	39.9
	rpm	2200	2400	2000	2000	2000
Oil capacity	ltrs	2.0	2.0	2.2	2.2	2.2
Dry weight	kg	36.7	36.7	40.0	40.0	40.0
Dimensions mm	L	482	482	498	498	498
	W	429	429	461	461	461
	H	370	370	392	392	392
<b>Features</b>						
Overhead V-valves		•	•	•	•	•
90 degree V-twin		•	•	•	•	•
High performance lubrication system		•	•	•	•	•
Spherical combustion chambers		•	•	•	•	•
Electronic spark ignition		•	•	•	•	•
Automatic compression release		•	•	•	•	•
Internally vented carburetor with fuel shut-off solenoid		•	•	•	•	•
Rotating grass screen		•	•	•	•	•
Cast iron cylinder liners		•	•	•	•	•
Bendix type starter		•	•	•	•	•
<b>Options</b>						
Shaft variations		•	•	•	•	•
Various speed control system		•	•	•	•	•
20 Amp charge coil		•	•	•	•	•
Various oil drains		•	•	•	•	•
Oil pressure switches		•	•	•	•	•
Muffler		•	•	•	•	•

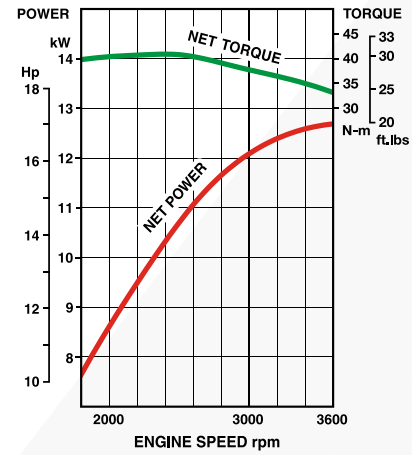


## Performance Graphs

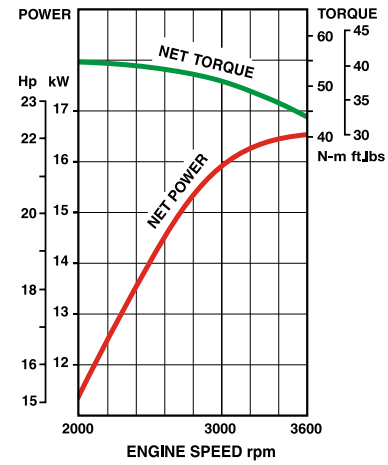
### FR541V



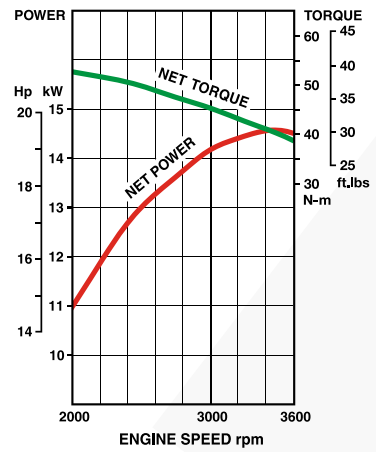
### FR600V



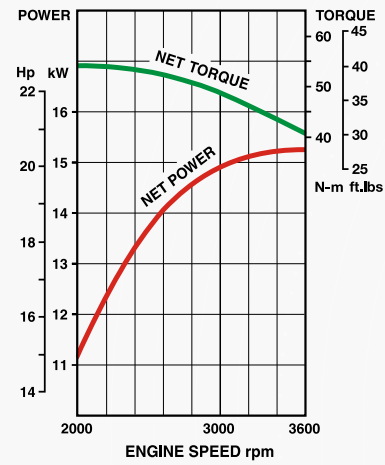
### FR730V



### FR651V



### FR691V

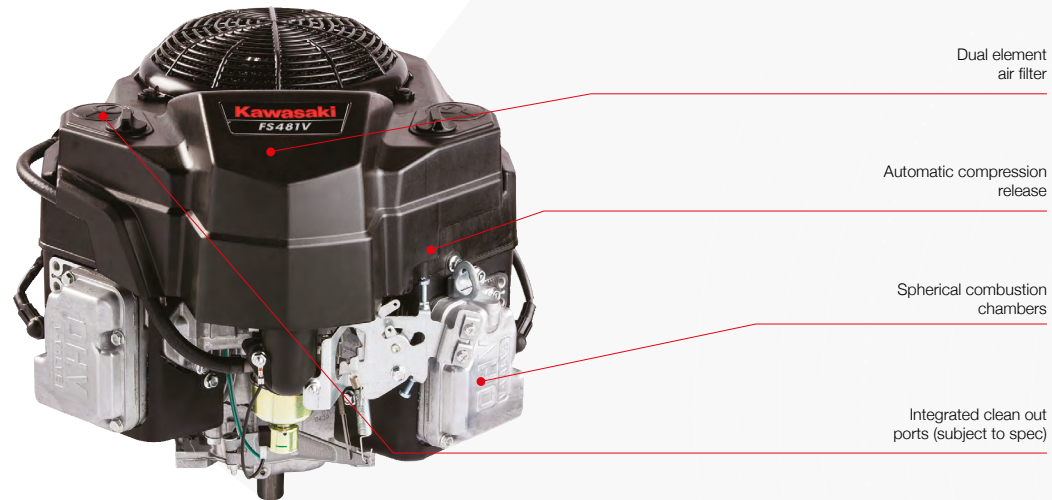


# FS Series

4-Stroke, Vertical Shaft, V-Twin, Overhead Valve, Air-cooled

**For long-term performance and reliability, providing professionals with steadfast power they can trust.**

- Dual element air filter**  
 Additional two stage filtration maintains optimum performance
- Automatic compression release**  
 Easy, reliable starting regardless of engine temperature
- Spherical combustion chambers**  
 Improve efficiency and maximise engine power
- Integrated clean out ports (subject to spec)**  
 Allow tool-free inspection and cleaning to maintain peak operation



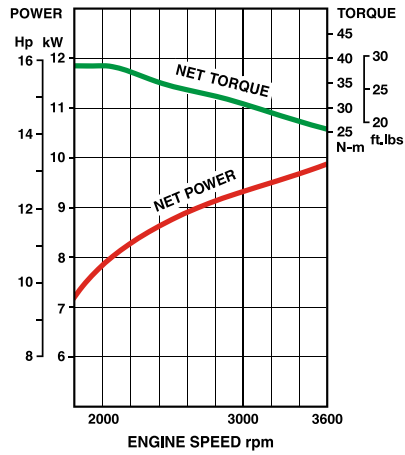
Specifications		FS481V	FS541V	FS600V	FS651V	FS691V	FS730V
Number of cylinders		2	2	2	2	2	2
Bore & Stroke	mm	73 x 72	73 x 72	73 x 72	78 x 76	78 x 76	78 x 76
Displacement	cm³	603	603	603	726	726	726
Max power	kW	9.8	11.3	12.7	14.5	15.4	16.5
	hp	13.2	15.1	17.0	19.4	20.6	22.1
	rpm	3600	3600	3600	3600	3600	3600
Max torque	Nm	38.4	39.1	40.9	52.5	53.3	53.9
	ft.lbs	28.3	28.8	30.2	38.7	39.3	39.8
	rpm	1800	2200	2400	2000	2000	2000
Oil capacity	ltrs	2.0	2.0	2.0	2.2	2.2	2.2
Dry weight	kg	36.7	36.7	36.7	41.0	41.0	41.0
Dimensions mm	L	484	484	484	500	500	500
	W	434	434	434	465	465	465
	H	377	377	377	391	391	391
<b>Features</b>							
Overhead V-valves		•	•	•	•	•	•
90 degree V-twin		•	•	•	•	•	•
High performance lubrication system		•	•	•	•	•	•
Spherical combustion chambers		•	•	•	•	•	•
Electronic spark ignition		•	•	•	•	•	•
Automatic compression release		•	•	•	•	•	•
Internally vented carburetor with fuel shut-off solenoid		•	•	•	•	•	•
Rotating grass screen		•	•	•	•	•	•
Dual element air filter		•	•	•	•	•	•
Cast iron cylinder liners		•	•	•	•	•	•
Bendix type starter		•	•	•	•	•	•
Clean out ports*		•	•	•	•	•	•
<b>Options</b>							
Shaft variations		•	•	•	•	•	•
Various speed control system		•	•	•	•	•	•
20 Amp charge coil		•	•	•	•	•	•
Various oil drains		•	•	•	•	•	•
Oil pressure switches		•	•	•	•	•	•
Muffler		•	•	•	•	•	•

\*Subject to specification

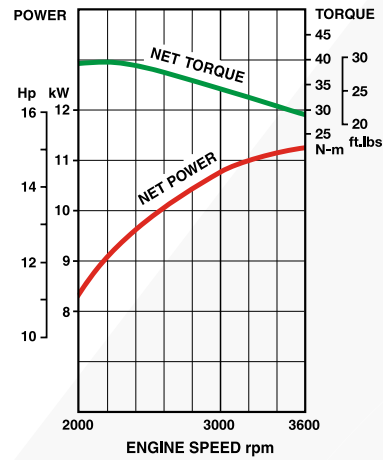


## Performance Graphs

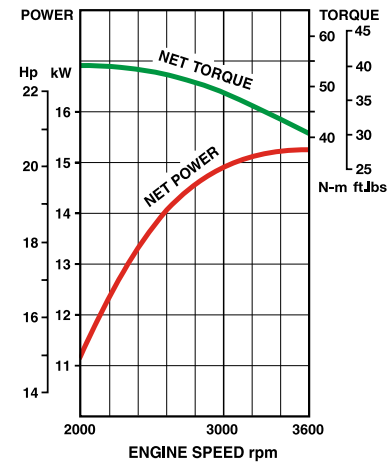
**FS481V**



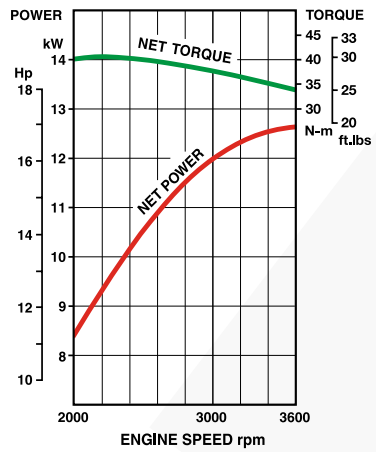
**FS541V**



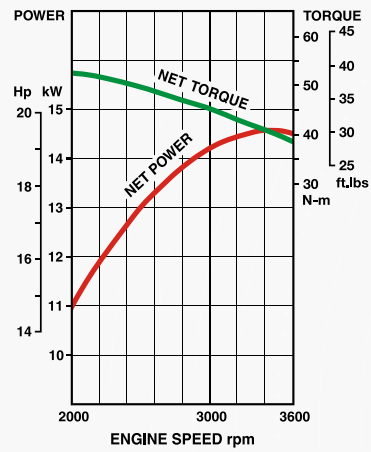
**FS691V**



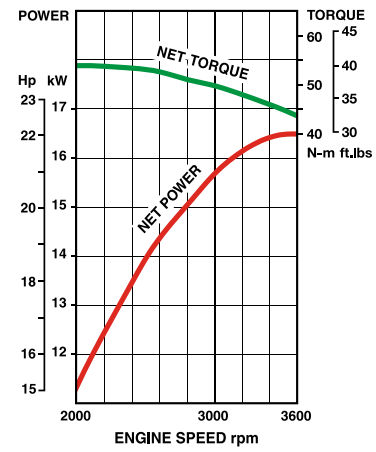
**FS600V**



**FS651V**



**FS730V**

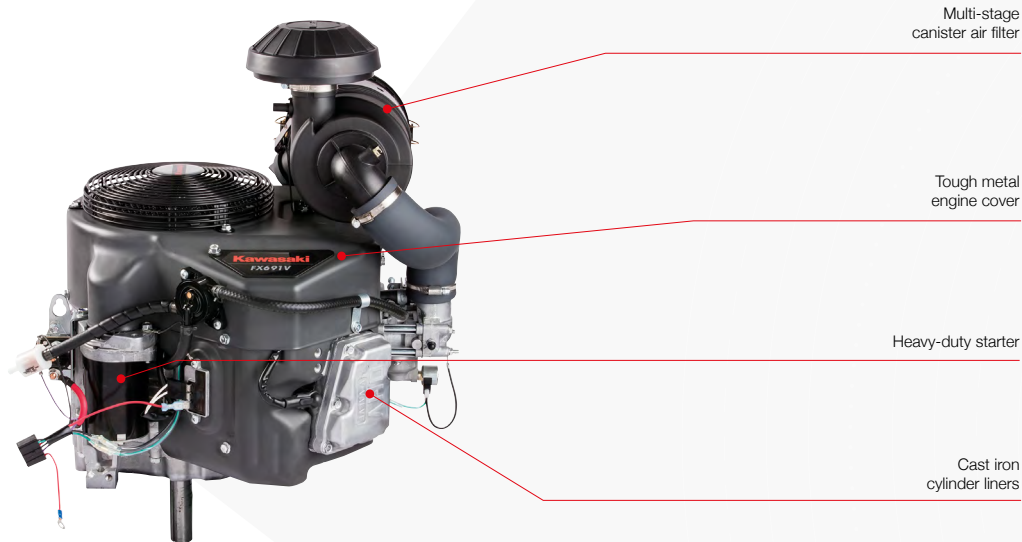


# FX Series

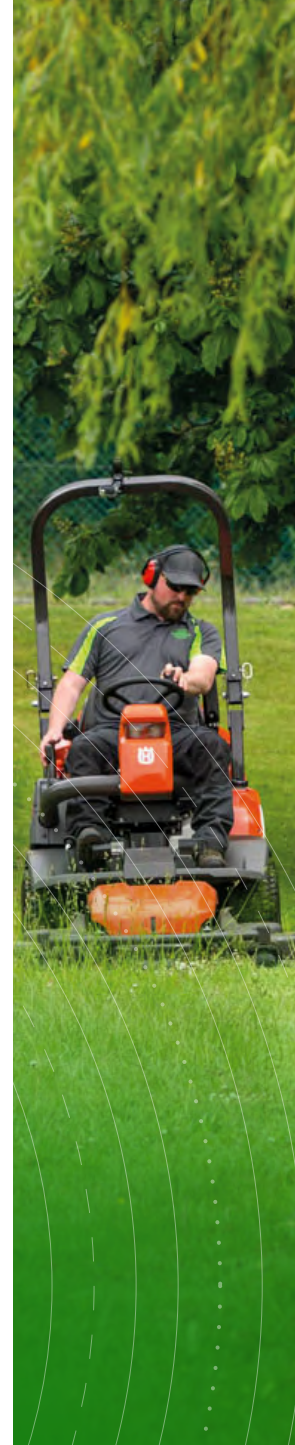
4-Stroke, Vertical Shaft, V-Twin, Overhead Valve, Air-cooled

For heavy-duty commercial turfcare, constructed using premium quality components and materials, offering the highest levels of performance and durability.

- Multi-stage canister air filter**  
 Using cyclonic air flow for superior filtration and optimum engine performance
- Tough metal engine cover**  
 Maximum durability for tough commercial work
- Heavy-duty starter**  
 Reliable starting for demanding workloads
- Cast iron cylinder liners**  
 Withstand the heat, pressure and loads of heavy extended use



Specifications		FX481V	FX541V	FX600V	FX651V	FX691V	FX730V
Number of cylinders		2	2	2	2	2	2
Bore & Stroke	mm	73 x 72	73 x 72	73 x 72	78 x 76	78 x 76	78 x 76
Displacement	cm <sup>3</sup>	603	603	603	726	726	726
Max power	kW hp rpm	10.1 13.5 3600	11.4 15.3 3600	12.7 17.0 3600	14.1 18.8 3600	15.4 20.6 3600	16.6 22.2 3600
Max torque	Nm ft.lbs rpm	37.0 27.3 2000	39.1 28.8 2200	40.9 30.2 2400	53.2 39.2 1800	53.7 39.6 2000	54.3 40.0 2000
Oil capacity	ltrs	2.0	2.0	2.0	2.2	2.2	2.2
Dry weight	kg	40.7	40.7	40.7	46.0	46.0	46.0
Dimensions mm	L W H	468 429 544	468 429 544	468 429 544	479 462 565	479 462 565	479 462 565
<b>Features</b>							
Overhead V-valves		•	•	•	•	•	•
90 degree V-twin		•	•	•	•	•	•
High performance lubrication system		•	•	•	•	•	•
Spherical combustion chambers		•	•	•	•	•	•
Electronic spark ignition		•	•	•	•	•	•
Automatic compression release		•	•	•	•	•	•
Heavy-duty shift type starter		•	•	•	•	•	•
Internally vented carburetor with fuel shut-off solenoid		•	•	•	•	•	•
Rotating grass screen		•	•	•	•	•	•
Single stage canister air filter		•	•	•			
Dual stage canister air filter					•	•	•
Cast iron cylinder liners		•	•	•	•	•	•
Metal engine cover		•	•	•	•	•	•
Clean out ports		•	•	•	•	•	•
<b>Options</b>							
Shaft variations		•	•	•	•	•	•
Various speed control system		•	•	•	•	•	•
20 Amp charge coil		•	•	•	•	•	•
Various oil drains		•	•	•	•	•	•
Oil pressure switches		•	•	•	•	•	•
Muffler		•	•	•	•	•	•



Specifications		FX751V	FX801V	FX850V	FX921V	FX1000V
Number of cylinders		2	2	2	2	2
Bore & Stroke	mm	84.5 x 76	84.5 x 76	84.5 x 76	89.15 x 80	89.2 x 80
Displacement	cm <sup>3</sup>	852	852	852	999	999
	hp	18.1	18.5	19.6	21.6	23.5
	rpm	24.2	24.8	26.3	28.9	31.4
Max power		3600	3600	3600	3600	3600
	Nm	60.7	60.1	60.8	66.7	69.6
	ft.lbs	44.8	44.3	44.9	49.2	51.3
Max torque	rpm	1800	2400	2400	2400	2400
Oil capacity	ltrs	2.4	2.4	2.4	2.1	2.2
Dry weight	kg	56.4	56.4	56.4	62.6	62.6
Dimensions mm	L	488	488	488	508	508
	W	465	465	465	500	500
	H	626	626	626	636	636

#### Features

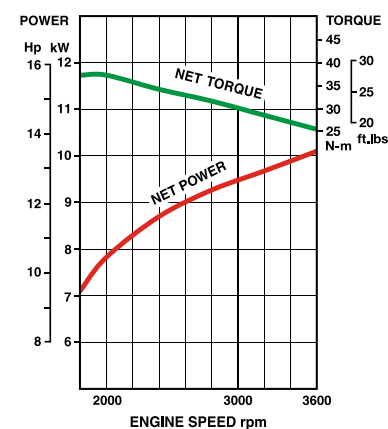
Overhead V-valves	•	•	•	•	•
3 valves per cylinder				•	•
90 degree V-twin	•	•	•	•	•
High performance lubrication system	•	•	•	•	•
Spherical combustion chambers	•	•	•	•	•
Electronic spark ignition	•	•	•	•	•
Automatic compression release	•	•	•	•	•
Heavy-duty shift type starter	•	•	•	•	•
Twin barrel, internally vented carburetor with fuel shut-off solenoid	•	•	•	•	•
High efficiency oil cooler	•	•	•	•	•
Rotating grass screen	•	•	•	•	•
Dual stage canister air filter	•	•	•	•	•
Cast iron cylinder liners	•	•	•	•	•
Metal engine cover	•	•	•	•	•
Clean out ports	•	•	•	•	•

#### Options

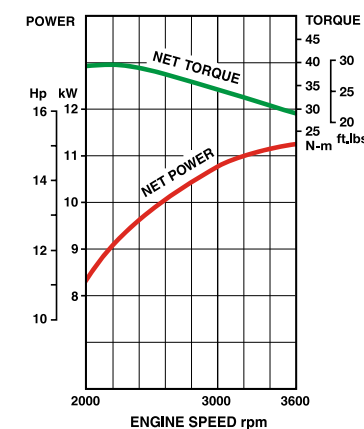
Shaft variations				•	•
Various speed control system	•	•	•	•	•
20 Amp charge coil	•	•	•	•	•
26 Amp charge coil				•	•
Various oil drains	•	•	•	•	•
Oil pressure switches	•	•	•	•	•
Muffler	•	•	•		

## Performance Graphs

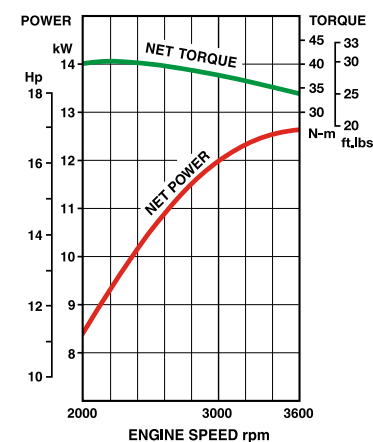
### FX481V



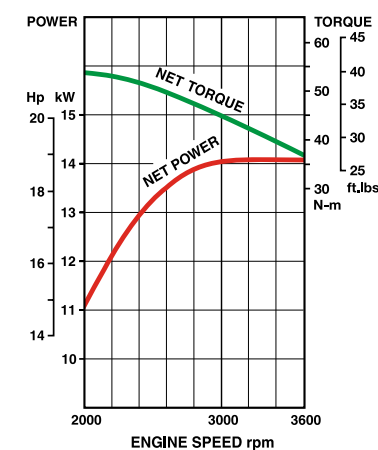
### FX541V



### FX600V



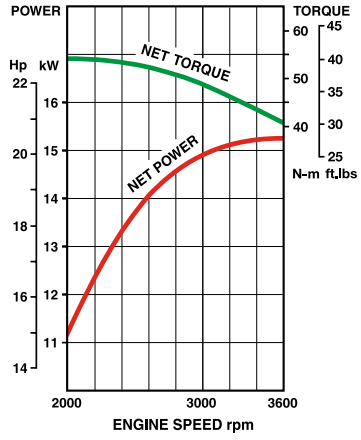
### FX651V



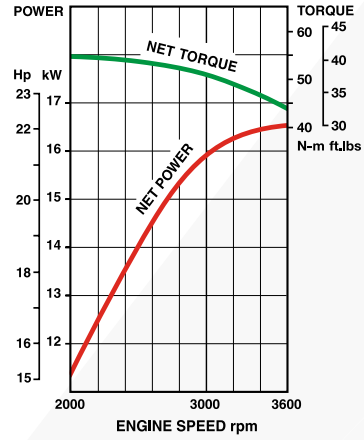


## Performance Graphs (cont.)

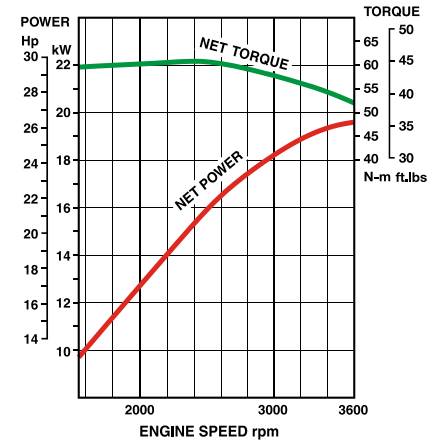
**FX691V**



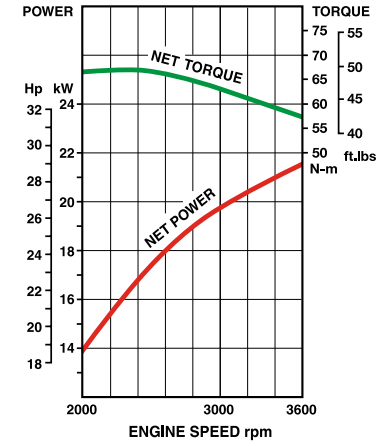
**FX730V**



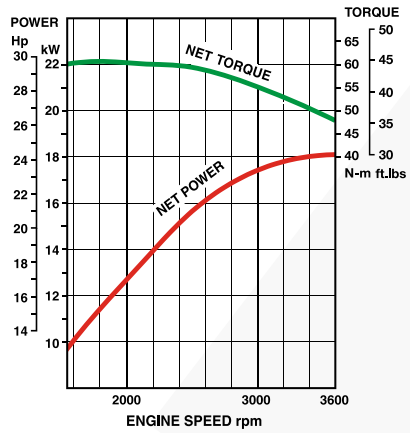
**FX850V**



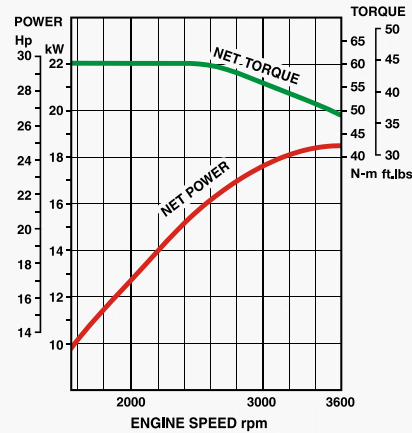
**FX921V**



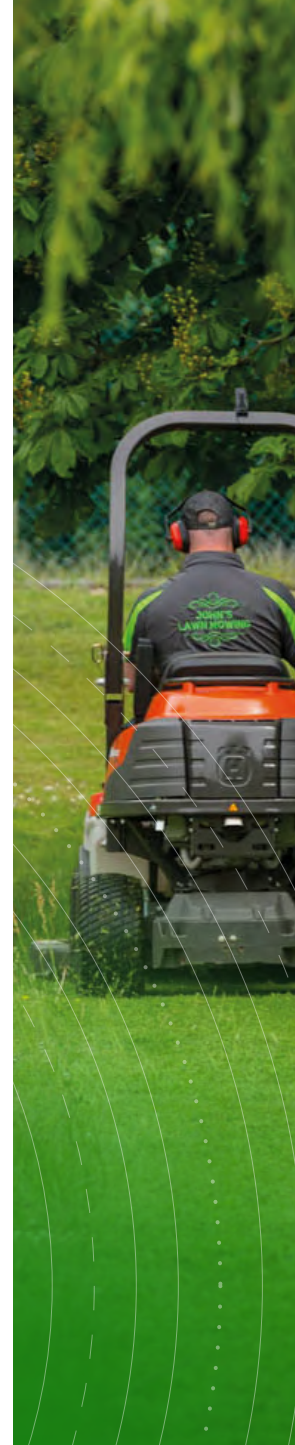
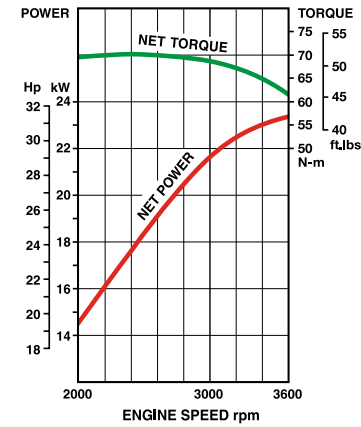
**FX751V**



**FX801V**



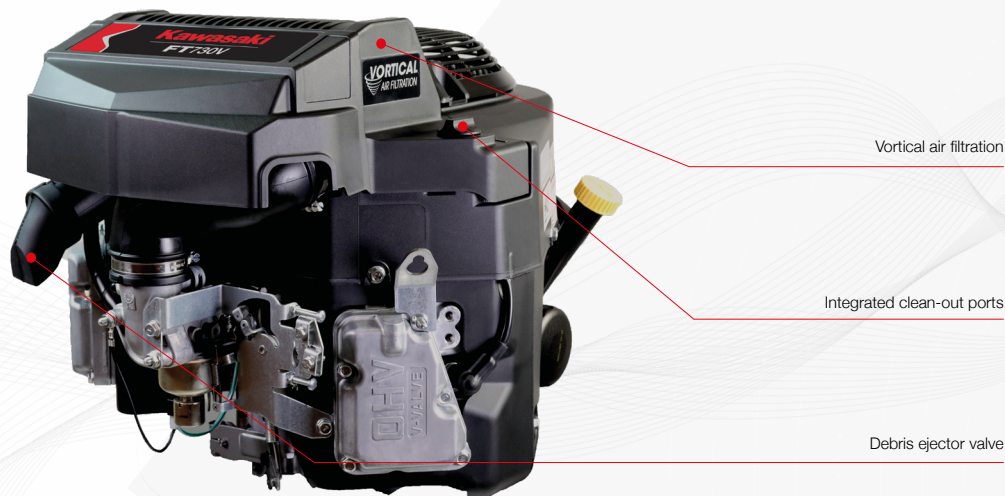
**FX1000V**



# FT730V

4-Stroke, Vertical Shaft, V-Twin, Overhead Valve, Air-cooled

**The ultimate in debris management for professional turfcare, reducing maintenance downtime, improving performance and maximising engine life.**



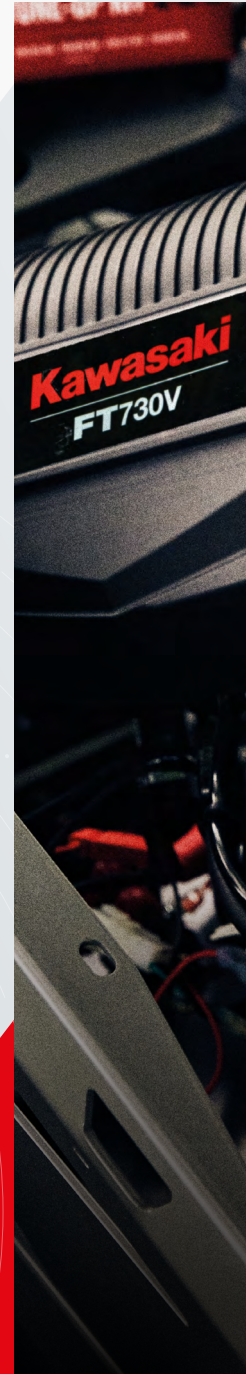
## The FT730V with Vortical Air Filtration. Purpose built for external engine applications.

Vortical air filtration is Kawasaki's answer to superior debris management. As air enters under the air filter housing, the unique design creates a powerful vortex motion forcing heavier particles outward through the debris ejector valve.

Remaining fine particles are intercepted by the filter, providing a significantly cleaner air intake. Two large integrated clean-out ports also allow easy, tool-free inspection and cleaning of the cylinders as needed.

**The result:** cooler running, fewer filter changes, improved engine performance, a longer engine life.

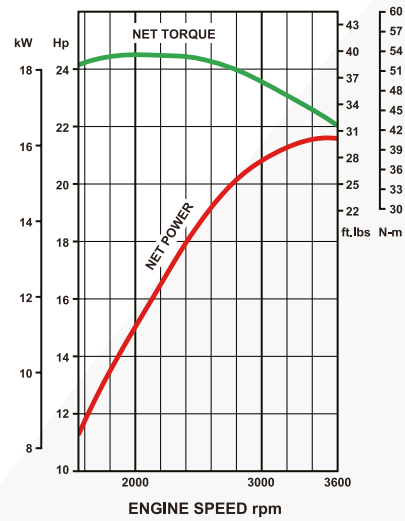
- **Vortical air filtration**  
Minimises debris for a cleaner air intake and cooler running
- **Debris ejector valve**  
Larger grass clippings are ejected away from the engine
- **Integrated clean-out ports**  
Easy-access, large clean out ports for simple inspection and cleaning



Specifications		FT730V
Number of cylinders		2
Bore & Stroke	mm	78 x 76
Displacement	cm <sup>3</sup>	726
Max power (Net)	kW	16.1
	hp	21.6
	rpm	3600
Max torque	Nm	53.7
	ft. lbs rpm	39.6 2000
Oil capacity	ltrs	2.2
Dry weight	kg	44.0
Dimensions mm	L	505
	W	462
	H	418
<b>Features</b>		
90 degree V-twin		•
High-efficiency, centrifugal air intake system		•
Dual-element air filtration with reinforced filter		•
Large, easy-to-access integrated clean-out ports		•
Pressurised lubrication system		•
Electronic spark ignition		•
Automatic compression release		•
Internally vented carburetor with fuel shut-off solenoid		•
Cast-iron cylinder liners		•
Rotating metal grass screen		•
<b>Options</b>		
Shaft variations		•
Various oil drains		•
Oil pressure switches		•
20 Amp charge coil		•
Muffler		•

## Performance Graph

FT730V



Whenever I hear the name Kawasaki it inspires confidence. Straightaway you know you've got a brand you can rely on.

John Ryan,  
Lawncare Legends



# Electronic Fuel Injection Engines (EFI)

4-Stroke, Vertical Shaft, V-Twin, Overhead Valve, Air-cooled

## For instant power, quicker mowing and cleaner cuts, our EFI engines are the key to improving commercial turfcare productivity.

- **Integrated electronic throttle control**

Instant throttle response gives turf professionals full available power, the second it's needed. Speed is maintained over heavy turf, tall grass and up steep hills. Blade speed holds steady giving a cleaner cut on the first pass. Get more work done – in less time – with better results.

- **Open loop design**

Our EFIs operate at strict, pre-determined standards for optimum commercial use performance. This design requires fewer sensors and parts, meaning simpler maintenance and easier upgrades.

- **Advanced electronic control unit (ECU)**

Continuously monitors ambient conditions and engine performance to deliver optimum power and efficiency at all times. Be confident of effective engine operation no matter how tough the conditions.

- **Multiport sequential fuel injection**

High-precision fuel delivery is managed according to engine conditions and ECU feedback. Power per stroke and fuel economy is maximised, delivering optimum power and fuel efficiency.

- **SAE-J1939 CAN communication protocol**

Seamlessly and efficiently integrates real-time engine performance with the mower's controls, sensors and displays, allowing advanced operating features for the end user.

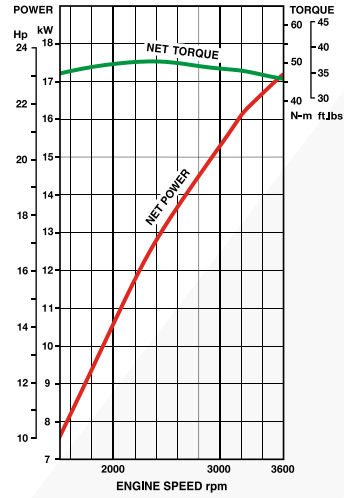
- **Simple, intuitive dealer diagnostics**

Downtime is minimised thanks to a PC or tablet plug-in diagnostic system. Delivers fast, easy troubleshooting and precise servicing, getting operators back to work quicker.

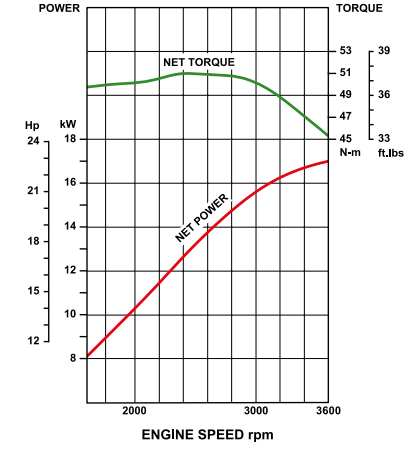
Specifications		FS730V EFI	FT730V EFI	FX730V EFI	FX820V EVO EFI	FX850V EFI	FX1000V EFI
Number of cylinders		2	2	2	2	2	2
Bore & Stroke	mm	78 x 76	78 x 76	78 x 76	83 x 76	84.5 x 76	89.15 x 80
Displacement	cm <sup>3</sup>	726	726	726	822	852	999
Max power (Net)	kW	17.2	16.9	17.0	24.1	19.9	24.5
	hp	23.1	22.6	22.8	32.4	26.7	32.9
	rpm	3600	3600	3600	3600	3600	3600
Max torque	Nm	50.4	51.8	51.0	65.9	62.0	70.6
	ft.lbs	37.2	38.2	37.6	48.6	45.8	52.1
	rpm	2400	2600	2400	2600	2400	2400
Oil capacity	ltrs	2.2	2.2	2.2	2.5	2.4	2.1
Dry weight	kg	46.5	48.5	50.1	63.2	56.7	69.9
Dimensions mm	L	507	517	501	519	524	607
	W	465	497	465	521	515	546
	H	409	418	587	625	620	623
<b>Features</b>							
Integrated electronic throttle control unit		•	•	•	•	•	•
Pressurised lubrication system		•	•	•	•	•	•
Electronic ignition with variable spark timing		•	•	•	•	•	•
Automatic compression release		•		•	•	•	
Sequential multiport fuel injection		•	•	•	•	•	•
Compact electronic control unit		•	•	•	•	•	•
Proven open loop design		•	•	•	•	•	•
Electronic altitude compensation		•	•	•	•	•	•
High pressure fuel injection technology with electronic fuel pump		•	•	•	•	•	•
Choke-free operation		•	•	•	•	•	•
Cast iron cylinder liners		•	•	•	•	•	•
Integrated clean out ports		•	Large, easy access ports	•	Significantly enlarged accessible area	•	Magnetic covers for easy maintenance
Metal engine cover				•		•	•
Heavy duty shift type starter		•	•	•	•	•	•
Heavy duty canister air filter				•	•	•	•
High-efficiency, centrifugal air intake system			•				
Pent roof combustion chamber					•		
Three-valve design					•		
Large-diameter dipstick and fill tube					With improved access and quarter-turn action		
Enhanced mounting bolt system					•		
30 Amp charge coil		•	•	•	•	•	•
<b>Options</b>							
Shaft variations		•	•	•		•	•
Various oil drains		•	•	•	•	•	•
Oil pressure switches		•	•	•		•	•
Muffler		•	•	•		•	

## Performance Graphs

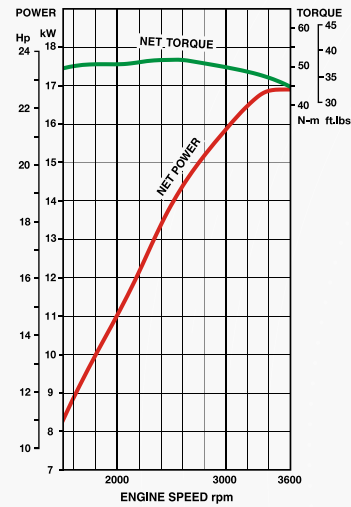
### FS730V EFI



### FX730V EFI

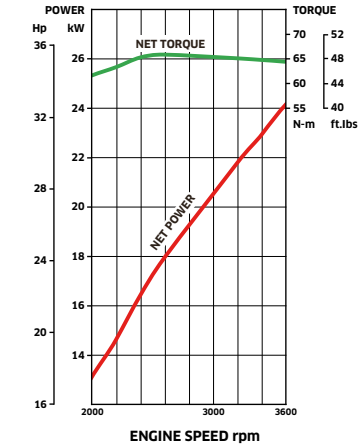


### FT730V EFI



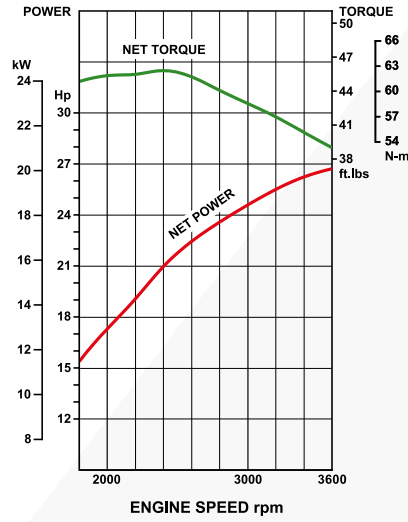
### FX820V EVO EFI\*

\* Currently only available for US OEMs

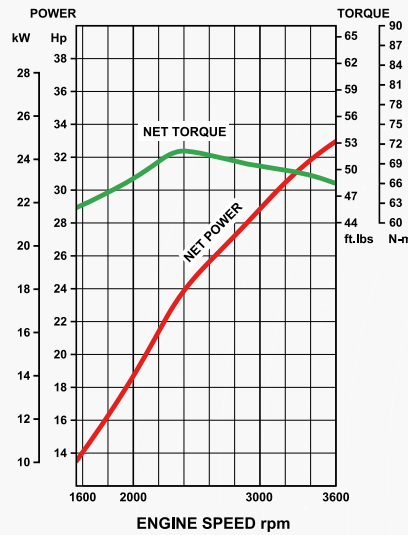


Performance Graphs (cont.)

FX850V EFI



FX1000V EFI



The customer feedback we've always had with Kawasaki is fantastic. The products are reliable, they're powerful, support is excellent.

Darren Spencer,  
Ariens Co, Vice President  
EMEA & Asia



# Genuine Parts

## PROTECT YOUR INVESTMENT

When you've invested in a high quality Kawasaki engine, you want it to perform at its best. Machinery that can't keep pace with your workload simply isn't good enough.

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# Kawasaki Air and Fuel Filters

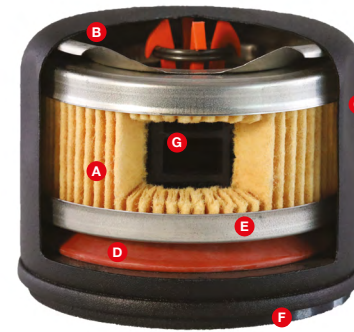
Kawasaki air and fuel filters are designed with media, materials and permeability that match the flow rates, operating pressures and temperatures of your Kawasaki engine. And they fit exactly right.



# Kawasaki Oil Filters

Most oil filters look the same on the outside. But inside a Kawasaki filter, a slotted alloy tube protects media integrity and oil flow. An anti-drain back valve prevents cold-start wear and a pressure-activated bypass valve maintains flow in case of blockage. Silicone valves, rubber seals and a heavy canister, stand up to high temperatures and severe use.

This is engine protection you can count on.



- A** Premium filter
- B** Bypass valve
- C** Steel housing
- D** Anti-drain back
- E** Durable end caps
- F** Rubber o-ring
- G** Nylon core



FS / FT / FX  
EFI / carb fuel filter  
49019-0031



FJ / FR / FS / FX  
carb fuel filter  
49019-0027



FD fuel filter  
49019-0032



Fits most engines  
49065-0724



Fits most engines  
49065-2071



Factory installed on  
FR / FS / FT / FX 600  
& 730 series engines  
49065-0721\*

\*Replaces 49065-7007

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Engines Representative

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