

# DID YOU KNOW?



A **Hybrid Diesel Engine** with water and air cooling combines these two methods to improve efficiency and performance. The water cooling helps manage the engine's temperature under heavy loads, while the air cooling provides additional heat dissipation. This dual cooling system can extend the engine's life, improve fuel efficiency, and reduce the risk of overheating, making it suitable for various applications, including agriculture, construction, and industrial machinery.

*Ang **Hybrid Diesel Engine** na may parehong water at air cooling ay pinagsasama ang dalawang paraan na ito upang mapabuti ang kahusayan at pagganap ng makina. Ang water cooling ay tumutulong na pamahalaan ang temperatura ng makina kapag ito ay gumagamit ng mabibigat na trabaho, habang ang air cooling ay nagbibigay ng karagdagang pag-alis ng init. Ang ganitong sistema ng pagpapalamig ay makakatulong sa pagpapahaba ng buhay ng makina, pagpapahusay ng fuel efficiency, at pagbawas ng panganib ng sobrang pag-init, kaya't ito ay angkop para sa iba't ibang aplikasyon tulad ng agrikultura, konstruksyon, at pang-industriyang makinarya.*



# SATO®

## HYBRID DIESEL ENGINE

JAPAN  
TECHNOLOGY



Water-Air cooled Diesel Engine

# HYBRID DIESEL ENGINE

Water-Air cooled Diesel Engine



**NYLON  
FUEL TANK &  
FLYWHEEL COVER**

**HIGH  
PERFORMANCE**

**FUEL  
EFFICIENT**



**AVAILABLE IN  
HIGH SPEED &  
LOW SPEED**

MODEL:	<b>SAT-192F</b>
BORE X STROKE (MM)	<b>92 X 72</b>
DISPLACEMENT (CC)	<b>499</b>
RATED POWER (KW)	<b>15</b>
RATED SPEED (RPM)	<b>HIGH SPEED: 3600 LOW SPEED: 1800</b>
SHAFT (MM)	<b>25</b>
FUEL CAPACITY (L)	<b>5.5</b>
CAPACITY (L)	<b>1.65</b>
PACKING (MM)	<b>480 X 470 X 525</b>
DRY WEIGHT (KG)	<b>39</b>
GROSS WEIGHT (KG)	<b>41</b>

# 20HP



**ENGINE APPLICATION: FISHING**