

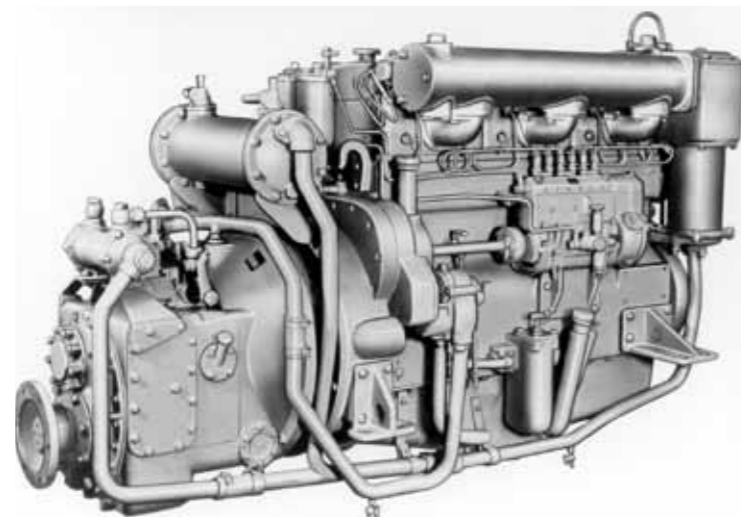
### Marine auxiliary applications

AGCO SISU POWER engines are designed for demanding off-road machinery applications. Robust construction, durability, reliability and strong torque are features the SisuDiesel engines are famous for throughout the years. Continuous research and development has contributed in significant improvements in combustion process of this engine series. These technically essential changes further strengthen the best properties of these engines. Citius series engines are available for keel / box cooling, as well as for radiator cooling applications

### Increased power density – reduced gas and noise emissions

These engines fulfil the European CCNR Stage II emission requirements. NOx emissions comply with requirements stipulated in Regulation 13 of Annex VI of MARPOL 73/78, engines with higher than 130 kW are certified. Solutions used for reducing emissions have simultaneously enabled the increase of power density and torque level while maintaining good fuel economy. Reduction in combustion noise has been achieved by the use of pilot injection. Also the new gear design and profile of timing gears introduced in Citius series engines essentially reduces the mechanical noise. 4 valve cylinder head technology is standard on electronically controlled Common Rail engines.

AGCO SISU POWER continues the brand heritage of VALMET over 60 years in Diesel Engine industry



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**AGCO SISU POWER**  
**Marine auxiliary applications**



### Fuel injection system

C series marine gen set engines are implemented either with Common Rail fuel injection system. Supplier of the components and basic software for CR system is Robert Bosch GmbH, while customized program design and CAN bus communication software are developed and applied by AGCO SISU POWER. The CR system allows substantially higher injection pressures than conventional, mechanical systems. D series engines run with reliable Stanadyne DB series injection pump and mechanical governor. These engines are, naturally, based on the same robust engine design as those with higher performance ratings.

### Third generation electronic engine control system, SisuTronic EEM3

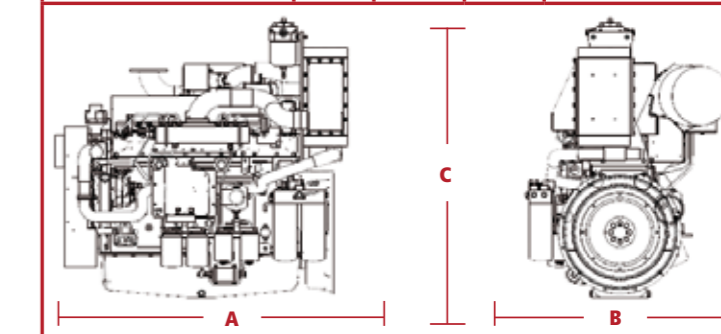
Citius series Common Rail engines feature a state-of-the-art, third generation control electronics based on years of development and application experience in the field. The electronic control system developed for the CR injection system enables also the phasing of injections upto five stages during one and same combustion process. Control system enables best load acceptance in this power range.

### Technical information

Engine Type	Dimensions mm					
	A	B	C	D	E	F
PRP (kW) / 1500 rpm	74	95	146	116	182	250
LTP (kW) / 1500 rpm	81	103	163	128	200	275
Number of cylinders	4	4	6	4	6	6
Displacement (litres)	4,9	4,9	7,4	4,9	7,4	8,4
Cylinder bore (mm)	108	108	108	108	108	111
Stroke (mm)	134	134	134	134	134	145
Rotation	CCW	CCW	CCW	CCW	CCW	CCW
Compliant to CCNR	Stage II	Stage II	Stage II	Stage II	Stage II	Stage II
MARPOL	N/A	N/A	Tier II	N/A	Tier II	Tier II
Aspiration	TC, CAC					
Injection system	Rotary mechanical			Common rail		
Governor system	Mechanical			Electronic. SisuTronic EEM3		

### Engines for keel / box cooling application

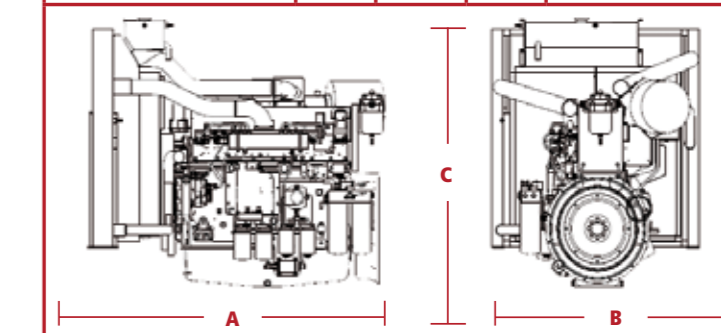
ENGINE TYPE	Dimensions mm			Dry Weight kg
	A	B	C	
49 DTG	1080	750	1075	460
49 DTAG	1080	750	1090	475
49CTAG	1080	750	1090	500
74 DTAG	1320	920	1250	700
74 CTAG	1320	920	1250	735
84 CTAG	1250	810	1250	810



Dimensions only for reference, not for installation specifications

### Engines with radiator and CAC

ENGINE TYPE	Dimensions mm			Dry Weight kg
	A	B	C	
49 DTG	1340	750	1130	500
49 DTAG	1420	950	1240	505
49CTAG	1420	950	1240	530
74 DTAG	1580	1100	1350	725
74 CTAG	1580	1100	1350	775
84 CTAG	1610	1100	1280	850



Dimensions only for reference, not for installation specifications

