



# DIESEL GENERATOR SET CATALOGUE



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# ABOUT TESCOM



Tescom formerly known as Tümel Elektronik located in Izmir-Turkey is an independently owned corporation, offering a wide range of power protection products and services to a wide spectrum of industries and sectors.

During the establishment years the company was manufacturing electronic control devices and inverters, then in 1986 when the IT sector started developing rapidly, Tescom sensed the great need for clean, uninterruptible power and started designing and manufacturing Uninterruptible Power Supplies.

As well as an extensive standard UPS range Tescom also offers a variety of other products such as static transfer switch (STS), frequency and voltage converters, inverters and rectifiers under its registered trademark "Tescom".

Today all Tescom branded power protection products are manufactured by 48 greatly experienced engineers and staff of 345 people.

One of the greatest advantages of Tescom has always been, flexibility. Which means we do not only offer standard products. Thanks to our high experienced R&D team we also design and manufacture products according to customers requirements.

Tescom has always made widespread use of the latest developments and technologies in manufacturing, which complies with all the necessary international standards and norms. All these past years of experience, has lead to over 300,000 manufactured power protection products which have been delivered to customers in more than 40 countries in 4 continents.

# TESCOM DIESEL GENERATORS

## STAND BY RATING (ESP)

It is the way that generators operate under variable load at certain time intervals. It can work as a backup power. It is not suitable to work under extreme load.

## PRIME RATING (PRP)

Applicable for supplying power to varying electrical load for unlimited hours. 10% overload capability is available for a period of 1 hour within 12-hour period of operation.

## CONTINUOUS OPERATION

It is the continuous working under constant load. Unlimited hours use of all (100%) of the defined power. It cannot be overloaded above the defined power. For use where there is no mains power.

## DESCRIPTION

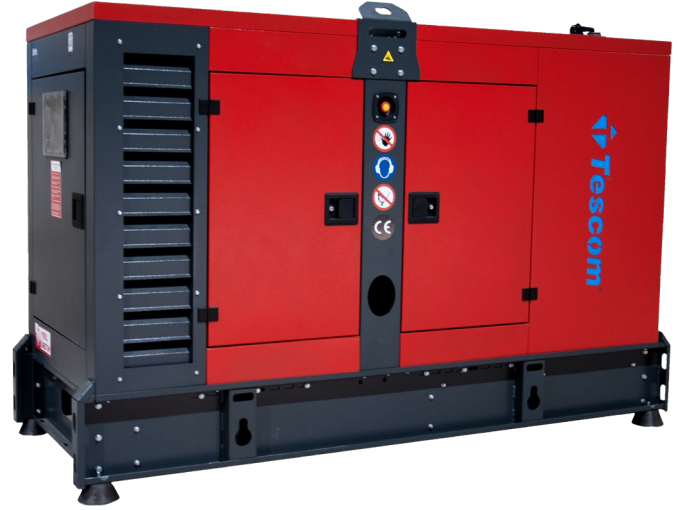
TESCOM TDJ Series Diesel generator set is a fully integrated power generation system, providing optimum performance, reliability, and versatility for stationary standby, prime power and continuous duty applications.

## ENGINE FEATURES

- Heavy duty generator engine
- 4-stroke, water cooling, natural suction system
- Mechanical governor system
- 12/24 volt starter motor and charge alternator
- Replaceable; with air, fuel and oil filters
- With flexible fuel hose
- Oil drain valve and extension hose/oil drain pump
- Industrial capacity muffler and exhaust spiral or compensator
- Maintenance-free starter battery
- Engine block water heater (available for automatic models)
- Diesel generator maintenance and operation manual and electrical diagrams

## QUALITY

Our generators are produced in accordance with integrated management systems such as ISO900, ISO14001, ISO 27001 and CE and TSE standards within the framework of Quality Assurance requirements, and we have full qualification certificates for our after-sales services.



## CANOPY STANDART SPECIFICATIONS

- Compact design connection with non-welded nuts and bolts.
- Integrated canopy, generator set, exhaust system fuel tank.
- Body made from steel components treated with polyester powder coating
- Easy access to all service points
- Exhaust system inside canopy
- Large doors on each side
- Control panel viewing window in a lockable access door
- Emergency stop push button mounted on cabin exterior
- Fuel fill and battery can only be reached via lockable access doors.
- Customer options available to meet your applications needs.
- TESCOM makes its generating sets noise level tests in accordance with directive 2000/14/EC validation of the noise level test has been approved by the notified body Szutest (CE conformity assessment body).

## ALTERNATOR FEATURES

- Brushless, single bearing, flexible disc 4-pole synchronous alternator
- H Insulation class
- IP21-23 protection class
- Shunt excitation
- Electronic voltage regulator
- Stator winding 2/3 step against harmonic distortions
- Alternator windings are protected with isolation varnish against oil and acid





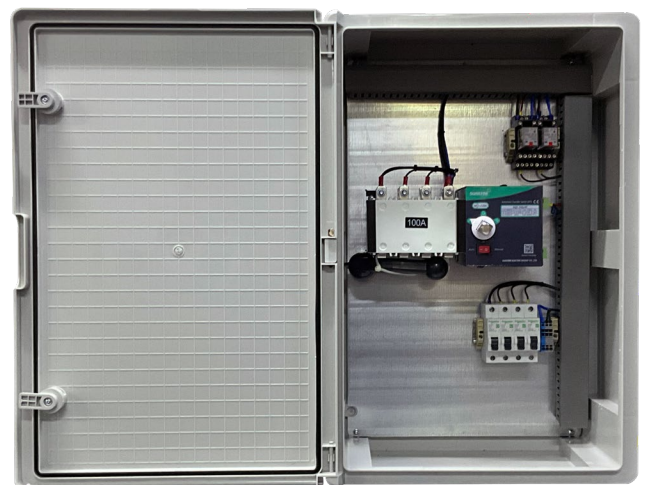
## CONTROL PANEL FEATURES

- The cable group we use in our generators is fireproof cable class. Cable sheaths form the defense line of cables against various chemicals and flame.
- The use of Halogen-free materials in the outer sheath of the cables prevents the spread of toxic gases during a fire. At the same time, fireproof cable sheaths have low smoke density and flame retardant properties. This feature of fireproof cable sheaths prevents the spread of fire and minimizes possible damages.
- Schneider Electric breaker group is used in generator control panels. As a standard, all our products have a 4-pole MCCB (Molded Case Circuit Breaker)



## ATS (AUTOMATIC TRASFER SWITCH) GENERAL FEATURES

- The SQ5 Dual Power Automatic Transfer Switch Series is a kind of automatic transfer switch that combines the switch and the logic controller, enabling the mechanical and electrical to become an inseparable whole.
- Superior electromagnetic compatibility, high resistance to interference.
- It has zero-time transfer technology with high reliability.
- It cuts the dual circuit power simultaneously.
- In addition to PLC remote control, it has a multi-circuit input / output interface that can automate the system.



ATS MODEL	GENERATOR POWER RANGE
100 A TRANSFER PANEL WITH TRANSFER SWITCH	0-70 kVA
160 A TRANSFER PANEL WITH TRANSFER SWITCH	82-124 kVA
250 A TRANSFER PANEL WITH TRANSFER SWITCH	125-165 kVA
400 A TRANSFER PANEL WITH TRANSFER SWITCH	220-275 kVA
630 A TRANSFER PANEL WITH TRANSFER SWITCH	300-440 kVA
800 A TRANSFER PANEL WITH TRANSFER SWITCH	500-550 kVA
1000 A TRANSFER PANEL WITH TRANSFER SWITCH	660-715 kVA
1250 A TRANSFER PANEL WITH TRANSFER SWITCH	750-825 kVA
1600 A TRANSFER PANEL WITH TRANSFER SWITCH	900-1100 kVA
2000 A TRANSFER PANEL WITH TRANSFER SWITCH	1250kVA
2500 A TRANSFER PANEL WITH TRANSFER SWITCH	1400-1600 kVA

## CONTROL SYSTEM

The new TESCOM TCM01 genset controllers are a cost effective modular genset controller ready for internet monitoring through plug-in modules. Its main advantages are multifunctionality, support for multiple topologies, harmonic analysis and detailed power measurements.

**Different brand controller can be offered upon request.**  
(DEIF AGC 150, DEIF SGC 120/12, DEIF SGC 420/421, Datacom D500, DEEPSEA 6120, DEEPSEA 7320, ComAp AMF25)

## DESCRIPTION

Software features are complete with easy firmware upgrade through USB port. The Windows based PC software allows monitoring and programming through USB, RS-485, RS-232, Ethernet and GPRS. The Rainbow Scada web service allows monitoring and control of an unlimited number of gensets from a single central location.

## MAJOR FEATURES

- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16Amp MCB & GCB outputs
- 8 configurable digital inputs
- 6 configurable digital outputs
- 3 configurable analog inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal aging of gensets
- Manual "speed fine adjust" on selected ECUs
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarm
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-485, Ethernet and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring
- Mobile genset support
- Automatic GSM geo-location
- Easy USB firmware upgrade
- -40°C operation with optional display heater
- IP65 rating with optional gasket

## COMMUNICATION

- USB Device
- J1939-CANBUS
- Geo-locating through GSM
- Internet Central Monitoring
- SMS message sending
- E-mail sending
- Free PC software: Rainbow Plus
- Modbus RTU (2400-57600baud)
- Modbus TCP/IP

## PLUG-IN MODULES

- GSM Modem (2G-3G-4G)
- Ethernet 100Mbps
- Wi-Fi (802.11 b/g/n)
- RS-485 (2400-57600baud)
- RS-232 (2400-57600baud)

## MEASUREMENTS

- Mains & genset PN/PP voltages
- Mains & genset frequency
- Mains & genset phase currents
- Mains & genset neutral currents
- Mains & genset, phase & total, kW, kVA, kVAR, pf
- Engine speed
- Battery voltage

## FUNCTIONALITIES

- AMF unit
- ATS unit
- Remote start controller
- Manual start controller
- Engine controller

## TOPOLOGIES

- 3 ph 4 w, star & delta
- 3 ph 3 w, 2 CTs
- 2 ph 3 w
- 1 phase 2 wires



TESCOM TCM01



DEIF AGC 150



DEIF SGC 120



DEIF SGC 420



DATAKOM D500



DEEPSEA 6120



DEEPSEA 7320



ComAp AMF25

# TECHNICAL SPECIFICATIONS



	TDJ14YT		TDJ17YT		TDJ21YT		TDJ25YT		TDJ30YT		TDJ34YT		TDJ38YT		TDJ41YT		TDJ45YT	
Standby (kVA/kW)	14	11	17	14	21	17	25	20	30	24	34	27	38	30	41	33	45	36
Prime (kVA/kW)	13	10	16	12	19	15	23	18	27	22	31	25	35	28	37	30	41	33
Open type size (LxWxH mm)	2200x900x870						2200x1000x1000											
With cabinet (LxWxH mm)	2200x900x1070						2200x1000x1200											
Open type weight (kg)	TBA						619	619	659	686	826	706						
Open type weight (kg) (Except for antifreeze and oil)							600	600	639	662	797	677						
Weight with cabinet (kg)							769	769	809	826	686	846						
Weight with cabinet (kg) (Except for antifreeze and oil)							750	749	789	802	657	817						
Tank capacity (L)	110						150											
<b>MOTOR</b>																		
Frequency	50Hz																	
Manufacturer and model	YD380D	YD385D	YD480D	YND485D	YSD490D	Y490D	Y495D	Y4100D	Y4102D									
Output rating	11kW	12,1kW	15,4kW	18,7kW	23,1kW	26,4kW	28,6kW	33kW	36,3kW									
Fuel	Diesel																	
Injection	Direct																	
Aspiration	Naturally aspirated																	
Cylinders	4																	
Bore x Stroke	80 x 90mm	85 x 90mm	80 x 90mm	85 x 95mm	90 x 100mm	90 x 105mm	95 x 105mm	100 x 118mm	102 x 118mm									
Displacement	1,375lt	1,5lt	1,89lt	2,1lt	2,54lt	2,67lt	2,97lt	3,707 lt	3,87lt									
Cooling	Water																	
Engine oil specification	SAE 15W40																	
Compression ratio	18:01																	
Engine oil capacity (sump only)	4,5lt			5lt	5,5lt	8lt			13lt									
Coolant capacity (incl.radiator)	10,4lt			11lt	12lt			16lt										
Governor	Mechanical																	
Air filter	Dry element																	
Electrical system	12V																	
<b>FUEL CONSUMPTION</b>																		
100% Load	3,1lt/h	3,55lt/h	4,22lt/h	4,71lt/h	5,45lt/h	6,43t/h	6,87lt/h	7,05lt/h	8,94lt/h									
75% Load	2,86lt/h	3,12lt/h	3,43lt/h	3,73lt/h	4,05lt/h	5,77lt/h	6,15lt/h	5,74lt/h	6,8lt/h									
50% Load	2,23lt/h	2,54lt/h	2,74lt/h	2,78lt/h	2,98lt/h	4,81lt/h	5,27lt/h	4,34lt/h	5,04lt/h									
<b>ALTERNATOR</b>																		
Brand	Tescom																	
Poles	4 Poles																	
Frequency	50/60HZ																	
Winding connections	Star																	
Insulation	Class H																	
Enclosure	IP23																	
Power factor	0,8																	
Altitude	1000m																	
Exciter system	Self excitation																	
Voltage regulator	AVR																	
Steady state voltage regulation	± 1%																	
Direction of rotation	Clockwise																	
Cooling	Direct drive centrifugal blower fan																	



# TECHNICAL SPECIFICATIONS



	TDJ50YT		TDJ55YT		TDJ60YT		TDJ66YT		TDJ75YT		TDJ82YT		TDJ94YT		TDJ110YT		TDJ120YT		TDJ140YT		TDJ150YT		
Standby (kVA/kW)	50	40	55	44	60	48	66	53	75	60	82	66	94	75	110	88	120	96	140	112	150	120	
Prime (kVA/kW)	41	36	50	40	55	44	55	44	68	55	75	60	86	68	100	80	109	87	127	102	136	109	
Open type size (LxWxH mm)	2200x1000x1000						2400x1000x1100						2800x1100x1300						3000x1100x1300				
With cabinet (LxWxH mm)	2200x1000x1200						2400x1000x1300						2800x1100x1500						3000x1100x1500				
Open type weight (kg)	711		TBA		718		1113		1113		1131		1131		TBA		1131		1456		TBA		
Open type weight (kg) (Except for antifreeze and oil)	682				689		1078		1084		1102		1098				1097		1416				
Weight with cabinet (kg)	871				878		1278		1273		1416		1416				1416		1806				
Weight with cabinet (kg) (Except for antifreeze and oil)	842				849		1238		1244		1387		1383				1382		1776				
Tank capacity (L)	150						170						250						280				
<b>MOTOR</b>																							
Frequency	50Hz																						
Manufacturer and model	Y4105D				Y4110D		Y4102ZLD		Y4105ZLD		YD4EZLD		Y4110ZLD				YD4GZLD		LR4M3L-D		LR4M3L-DA		
Output rating	41,8kW				47,3kW		50,4kW		60kW		66,1kW		84kW				93kW		105kW		120kW		
Fuel	Diesel																						
Injection	Direct																						
Aspiration	Naturally aspirated								Turbocharged								Aftercooler / Turbocharged						
Cylinders	4																						
Bore x Stroke	102 x 118mm				110 x 118mm		102 x 118mm		105 x 118mm				110 x 118mm				110 x 125mm						
Displacement	3,87lt				4,484lt		3,87lt		4,087 lt		4,3lt				4,75lt								
Cooling	Water																						
Engine oil specification	SAE 15W40																						
Compression ratio	18:01																17:01						
Engine oil capacity (sump only)	13lt								17lt				14lt										
Coolant capacity (incl.radiator)	14,9lt								15,6lt				16,7lt				26lt						
Governor	Mechanical								Electronical														
Air filter	Dry element																						
Electrical system	12V																24V						
<b>FUEL CONSUMPTION</b>																							
100% Load	8,8lt/h				12,03lt/h		13,16lt/h		14,72lt/h		16,87lt/h		20,94lt/h				22,1lt/h		18,6lt/h		18,6lt/h		
75% Load	6,75lt/h				9,15lt/h		10,22lt/h		11,69lt/h		13,39lt/h		16,27lt/h				18,9lt/h		13,9lt/h		13,9lt/h		
50% Load	5,58lt/h				6,91lt/h		7,57lt/h		8,66lt/h		9,92lt/h		12,78lt/h				14,2lt/h		10,2lt/h		10,2lt/h		
<b>ALTERNATOR</b>																							
Brand	Tescom																						
Poles	4 Poles																						
Frequency	50/60HZ																						
Winding connections	Yıldız																						
Insulation	Class H																						
Enclosure	IP23																						
Power factor	0,8																						
Altitude	1000m																						
Exciter system	Self excitation																						
Voltage regulator	AVR																						
Steady state voltage regulation	± 1%																						
Direction of rotation	Clockwise																						
Cooling	Direct drive centrifugal blower fan																						

# TECHNICAL SPECIFICATIONS



	TDJ165YT		TDJ175T		TDJ220YT		TDJ250YT		TDJ300YT		TDJ325YT		TDJ350YT		TDJ400YT		TDJ440YT				
Standby (kVA/kW)	165	132	175	140	220	176	250	200	300	240	325	260	350	280	400	320	440	352			
Prime (kVA/kW)	150	120	159	127	200	160	227	182	273	218	296	236	318	255	364	291	400	320			
Open type size (LxWxH mm)	3000x1100x1300								3500x1200x1400								3700x1600x1600				
With cabinet (LxWxH mm)	3000x1100x1500								3500x1200x1600								3700x1600x1800				
Open type weight (kg)	1494		1494		1494		2003		2154		2154		2317		2994		3069				
Open type weight (kg) (Except for antifreeze and oil)	1454		1452		1452		1961		2087		2088		2250		2911		2986				
Weight with cabinet (kg)	1844		1844		1844		2453		2554		2554		2767		3444		3569				
Weight with cabinet (kg) (Except for antifreeze and oil)	1804		1802		1802		2411		2487		2488		2700		3361		3486				
Tank capacity (L)	280								360								470				
<b>MOTOR</b>																					
Frequency	50Hz																				
Manufacturer and model	LR4M3L-DA	LR6A3L-D	LR6M3L-D	LR6M3L-DA	YM6S4L-D	YM6S4L-DA	YM6S4LF-D	YM6S9L-D	YM6S9LF-D												
Output rating	120kW	132kW	155kW	176kW	258kW	208kW	290kW	320kW	350kW												
Fuel	Diesel																				
Injection	Direct																				
Aspiration	Aftercooler / Turbocharged																Air to air intercooled				
Cylinders	4				6																
Bore x Stroke	105 x 125mm				110 x 125mm				126 x 130mm												
Displacement	4,75lt	6,49 lt	7,13lt				9,726lt				11,54lt										
Cooling	Water																				
Engine oil specification	SAE 15W40																				
Compression ratio	17:01				16.5:1				17,5:1		16.5:1										
Engine oil capacity (sump only)	14lt	16lt				24lt		23lt		24lt		28lt									
Coolant capacity (incl.radiator)	26lt				43lt						55lt										
Governor	Electronical																				
Air filter	Dry element																				
Electrical system	24V																				
<b>FUEL CONSUMPTION</b>																					
100% Load	18,6lt/h	25,5lt/h	33,2lt/h	35,1lt/h	36,64lt/h	37,18lt/h	45,44lt/h	51,68lt/h	61,46lt/h												
75% Load	13,9lt/h	18,3lt/h	25,7lt/h	25,9lt/h	27,79lt/h	28,02lt/h	34,10lt/h	38,78lt/h	47,69lt/h												
50% Load	10,2lt/h	14lt/h	17,4lt/h	17,9lt/h	20,45lt/h	20,45lt/h	23,70lt/h	26,96lt/h	33,27lt/h												
<b>ALTERNATOR</b>																					
Brand	Tescom																				
Poles	4 Poles																				
Frequency	50/60HZ																				
Winding connections	Star																				
Insulation	Class H																				
Enclosure	IP23																				
Power factor	0,8																				
Altitude	1000m																				
Exciter system	Self excitation																				
Voltage regulator	AVR																				
Steady state voltage regulation	± 1%																				
Direction of rotation	Clockwise																				
Cooling	Direct drive centrifugal blower fan																				

# TECHNICAL SPECIFICATIONS



	TDJ34K		TDJ44K		TDJ50K		TDJ70K		TDJ82K	
Standby (kVA/kW)	34	27,2	44	35,2	50	40	70	56	82	65,6
Prime (kVA/kW)	30	24	40	32	45	36	63	50,4	75	60
Open type size (LxWxH mm)	2200 x 1000 x 1100									
With cabinet (LxWxH mm)	2200 x 1000 x 1400									
Open type weight (kg)	686		706		711		1113			
Open type weight (kg) (Except for antifreeze and oil)	660		680		685		1087			
Weight with cabinet (kg)	826		846		871		1273			
Weight with cabinet (kg) (Except for antifreeze and oil)	800		820		845		1247			
Tank capacity (L)	150									
<b>MOTOR</b>										
Manufacturer and model	N4100DS		N4100ZDS			N4105ZDS		N4105 ZLDS		
Frequency	50Hz									
Output rating	33kW		46kW			56kW		72kW		
Fuel	Diesel									
Injection	Swirl					Direct				
Aspiration	Naturally aspirated		Turbocharged			Naturally aspirated				
Cylinders	4									
Bore and Stroke	100 x 115mm		105 x 120mm			105 x 130mm				
Displacement	3,61lt		4,15lt			4,15lt				
Cooling	Water									
Engine oil specification	SAE 15W40									
Compression ratio	17:1									
Engine oil capacity (sump only)	13lt									
Coolant capacity (incl.radiator)	13lt									
Governor	Mechanical									
Air filter	Dry element									
<b>FUEL CONSUMPTION</b>										
100% Load	5,7lt/h		10,4lt/h			14,9lt/h		17,3lt/h		
75% Load	4,3lt/h		7,8lt/h			11,2lt/h		12,9lt/h		
50% Load	2,8lt/h		5,2lt/h			7,5lt/h		8,6lt/h		
<b>EXHAUST SYSTEM</b>										
Maximum temperature	< 600°C									
Exhaust gas flow	4,75m <sup>3</sup> /min			5,96m <sup>3</sup> /min			8,66m <sup>3</sup> /min			
Maximum exhaust back pressure	60mBar									
Exhaust flange size (internal dia.)	60mm									
<b>AIR SYSTEM</b>										
Intake air flow	2,3m <sup>3</sup> /min		4,5m <sup>3</sup> /min			5,65m <sup>3</sup> /min		8,2m <sup>3</sup> /min		
Air intake temperature rise	< 5°C									
<b>STARTING SYSTEM</b>										
Starter motor	3,7kW		4,8kW			6kW		4,3kW		
Battery capacity	60Ah		72Ah			72Ah				
Auxiliary voltage	12V					24V				
<b>ALTERNATOR</b>										
Brand	Tescom									
Poles	4 Poles									
Frequency	50/60HZ									
Winding connections	Star									
Insulation	Class H									
Enclosure	IP23									
Power factor	0,8									
Altitude	1000m									
Exciter system	Self excitation									
Voltage regulator	AVR									
Steady state voltage regulation	± 1%									
Direction of rotation	Clockwise									
Cooling	Direct drive centrifugal blower fan									

# TECHNICAL SPECIFICATIONS



	TDJ94K		TDJ110K		TDJ124K		TDJ165K		TDJ220K		
Standby (kVA/kW)	94	75,2	110	88	124	99,2	165	132	220	176	
Prime (kVA/kW)	85	68	100	80	110	88	150	120	200	160	
Open type size (LxWxH mm)	2350 x 1000 x 1300				2750 x 1100 x 1500				3000 x 1100 x 1500		
With cabinet (LxWxH mm)	2350 x 1000 x 1550				2750 x 1100 x 1750				3000 x 1100 x 1750		
Open type weight (kg)	1131				1456		1494		2003		
Open type weight (kg) (Except for antifreeze and oil)	1099				1424		1454		1963		
Weight with cabinet (kg)	1416				1806		1844		2453		
Weight with cabinet (kg) (Except for antifreeze and oil)	1384				1774		1804		2413		
Tank capacity (L)	170				250				280		
<b>MOTOR</b>											
Manufacturer and model	4RT55-88D		4RT55-110DE			R6105BZLDS		6RT80-176D			
Frequency	50Hz										
Output rating	88kW		110kW			132kW		176kW			
Fuel	Diesel										
Injection	Direct										
Aspiration	Turbocharged		Naturally aspirated			Turbocharged / Naturally aspirated					
Cylinders	4				6						
Bore and Stroke	110 x 140mm				105 x 130mm		110 x 140mm				
Displacement	5,32lt				6,75lt		7,98lt				
Cooling	Water										
Engine oil specification	SAE 15W40										
Compression ratio	17:1										
Engine oil capacity (sump only)	16lt				17lt			23lt			
Coolant capacity (incl.radiator)	16lt				23lt						
Governor	Mechanical		Electronical			Mechanical					
Air filter	Dry element										
<b>FUEL CONSUMPTION</b>											
100% Load	17,3lt/h		25,5lt/h		17,3lt/h		33,2lt/h		41,4lt/h		
75% Load	12,9lt/h		19lt/h		12,9lt/h		24,9lt/h		31,0lt/h		
50% Load	8,6lt/h		12,7lt/h		8,6lt/h		16,6lt/h		20,7lt/h		
<b>EXHAUST SYSTEM</b>											
Maximum temperature	< 600°C										
Exhaust gas flow	8,66m <sup>3</sup> /min				13,26m <sup>3</sup> /min		15,56m <sup>3</sup> /min				
Maximum exhaust back pressure	60mBar										
Exhaust flange size (internal dia.)	60mm				76mm						
<b>AIR SYSTEM</b>											
Intake air flow	8,2m <sup>3</sup> /min				12,56m <sup>3</sup> /min		15,71m <sup>3</sup> /min				
Air intake temperature rise	< 5°C										
<b>STARTING SYSTEM</b>											
Starter motor	6kW										
Battery capacity	72Ah				2 x 82Ah						
Auxiliary voltage	12V				24V						
<b>ALTERNATOR</b>											
Brand	Tescom										
Poles	4 Poles										
Frequency	50/60HZ										
Winding connections	Star										
Insulation	Class H										
Enclosure	IP23										
Power factor	0,8										
Altitude	1000m										
Exciter system	Self excitation										
Voltage regulator	AVR										
Steady state voltage regulation	± 1%										
Direction of rotation	Clockwise										
Cooling	Direct drive centrifugal blower fan										

# TECHNICAL SPECIFICATIONS



	TDJ220QN	TDJ275QN	TDJ300QN	TDJ330QN	TDJ400QN	TDJ440QN
Standby (kVA/kW)	220	275		330	400	440
Prime (kVA/kW)	200	250		300	360	400
Open type size (LxWxH mm)	3000 x 1100 x 1500	3500 x 1200 x 1800			3700 x 1400 x 1800	3700 x 1600 x 1800
With cabinet (LxWxH mm)	3000 x 1100 x 1750	3500 x 1200 x 2050			3700 x 1400 x 2050	3700 x 1600 x 2050
Open type weight (kg)	2003	2154	2317	2994	3069	
Open type weight (kg) (Except for antifreeze and oil)	1956,4	2095	2250	2921	2947,8	
Weight with cabinet (kg)	2453	2554	2767	3444	3569	
Weight with cabinet (kg) (Except for antifreeze and oil)	2406,4	2495	2700	3371	3447,8	
Tank capacity (L)	280	360			470	
<b>MOTOR</b>						
Manufacturer and model	QN8H217E	QN9H272E		QN9H340E	QN13H435E	QN13H516E
Type	Direct injection, Four-stroke, Water-cooling, V6 type					
Aspiration	Turbocharged / Naturally aspirated					
Bore and Stroke	114 x 135mm			135 x 150	135 x 160	135 x 165
Compression ratio	18:1			17:1		
Total displacement	8.27			13		
BSFC @ rated condition (g/kW.h)	198			200		
BSFC @ oil rated condition (g/kW.h)	< 0.50			0.7		
Stable state rate (%)	≤ 5%					
Type of governor	Electronical					
Idle speed (rpm)	680					
Rated speed (rpm)	1500/1800					
Noise (dB)	≤ 115					
Smoke (FSN)	≤ 1			≤ 2		
Net weight (kg)	660			1200		
<b>ALTERNATOR</b>						
Brand	Tescom					
Poles	4 Poles					
Frequency	50/60HZ					
Winding connections	Star					
Insulation	Class H					
Enclosure	IP23					
Power factor	0,8					
Altitude	1000m					
Exciter system	Self excitation					
Voltage regulator	AVR					
Steady state voltage regulation	± 1%					
Direction of rotation	Clockwise					
Cooling	Direct drive centrifugal blower fan					



# TECHNICAL SPECIFICATIONS



	TDJ550QN	TDJ620QN	TDJ700QN	TDJ825QN	TDJ1000QN
Standby (kVA/kW)	550	620	700	825	1000
Prime (kVA/kW)	500	560	630	725	900
Open type size (LxWxH mm)	3700 x 1600 x 1800	4000 x 1800 x 1900		4500 x 2000 x 1900	
With cabinet (LxWxH mm)	3700 x 1600 x 2050	4000 x 1800 x 2350		4500 x 2000 x 2350	
Open type weight (kg)	4792	5208		5528	6928
Open type weight (kg) (Except for antifreeze and oil)	4612	4996		5356	6743,5
Weight with cabinet (kg)	5442	5958		6278	8128
Weight with cabinet (kg) (Except for antifreeze and oil)	5262	5746		6106	7943,5
Tank capacity (L)	470	490		570	
<b>MOTOR</b>					
Manufacturer and model	QN26H571E	QN26H612E	QN26H680E	QN28H843E	QN28H1100E
Type	Direct injection, Four-stroke, Water-cooling, V6 type			Direct injection, Four-stroke, Water-cooling, V12 type	
Aspiration	Turbocharged / Naturally aspirated				
Bore and Stroke	135 x 150	135 x 155		138 x 158	138 x 165
Compression ratio	17:1		16:1		
Total displacement	26			28	
BSFC @ rated condition (g/kW.h)	≤ 210	≤ 205		≤ 202	≤ 198
BSFC @ oil rated condition (g/kW.h)	0.7				
Stable state rate (%)	≤ 1%				
Type of governor	Electronical				
Idle speed (rpm)	680				
Rated speed (rpm)	1500/1800				
Noise (dB)	≤ 117				
Smoke (FSN)	≤ 2.5				
Net weight (kg)	1950				
<b>ALTERNATOR</b>					
Brand	Tescom				
Poles	4 Poles				
Frequency	50/60HZ				
Winding connections	Star				
Insulation	Class H				
Enclosure	IP23				
Power factor	0,8				
Altitude	1000m				
Exciter system	Self excitation				
Voltage regulator	AVR				
Steady state voltage regulation	± 1%				
Direction of rotation	Clockwise				
Cooling	Direct drive centrifugal blower fan				

# TECHNICAL SPECIFICATIONS



	TDJ220DT / TDJ220DSS (*)		TDJ255DT / TDJ255DSS (*)		TDJ275DT / TDJ275DSS (*)		TDJ330DT / TDJ330DSS (*)		TDJ410DT / TDJ410DSS (*)		TDJ440DT / TDJ440DSS (*)		TDJ485DT / TDJ485DSS (*)		
Standby (kVA/kW)	220	176	255	204	275	220	330	264	410	328	440	352	485	388	
Prime (kVA/kW)	200	160	232	185	250	200	300	240	373	298	400	320	441	353	
Open type size (LxWxH mm)	3000 x 1100 x 1500		3500 x 1200 x 1800				3700 x 1400 x 1800		3700 x 1600 x 1800						
With cabinet (LxWxH mm)	3000 x 1100 x 1750		3500 x 1200 x 2050				3700 x 1400 x 2050		3700 x 1600 x 2050						
Open type weight (kg)	1990		2136		2409		2498		3160		3282		3528		
Open type weight (kg) (Except for antifreeze and oil)	1930,5		2076,5		2335		2424		3065		3181		3427		
Weight with cabinet (kg)	2420		2566		2899		2988		3835		3957		4203		
Weight with cabinet (kg) (Except for antifreeze and oil)	2360,5		2506,5		2825		2914		3740		3856		4102		
Tank capacity (L)	280		360						470						
<b>MOTOR</b>															
Frequency	50Hz														
Manufacturer and model	DOOSAN P086TI	DOOSAN DP086LA	DOOSAN P126TI	DOOSAN P126TIII	DOOSAN DP126LB	DOOSAN P158LE	DOOSAN P158LE								
Engine power	194/263 (kWm/hp)	219/298 (kWm/hp)	265/360 (kWm/hp)	287/390 (kWm/hp)	346/470 (kWm/hp)	398/541 (kWm/hp)	398/541 (kWm/hp)								
Revolution per min.	1500 r.p.m														
Total displacement	8,071lt			11,05lt			11,051lt		14,618lt		14,618lt				
Cylinders orientation	6 Vertical In-line						8 Cylinders - V type								
Bore x Stroke	111 x 139mm			123 x 155mm						128 x 142mm					
Compression ratio	16,4:01	16,7:01	17,1:01			17,2:1			15:01						
Governor type	Electronical														
Aspiration system	Turbo CAC														
Injection	Direct														
Cooling	Water														
Electrical system	24VDC														
Lub-oil capacity	15,5lt			23lt			44lt		21lt						
Engine coolant capacity	44lt			51lt						80lt					
Cooling air flow	190 m3/min.			370 m3/min.		450 m3/min.		312 m3/min.		522 m3/min.					
Fuel	Diesel														
<b>FUEL CONSUMPTION</b>															
100% Load	43,1lt/h	48,7lt/h	58,1lt/h	63,1lt/h	76lt/h	80,3lt/h	89,3lt/h								
75% Load	31,7lt/h	36,8lt/h	43,6lt/h	47lt/h	57,1lt/h	58,1lt/h	65,1lt/h								
50% Load	21,1lt/h	24,6lt/h	30lt/h	31,3lt/h	38,4lt/h	40,9lt/h	43,9lt/h								
<b>EXHAUST SYSTEM</b>															
Maximum exhaust temperature	509°C	530°C	560°C	590°C	575°C	503°C									
Maximum exhaust gas flow	33,9m3/h	33,9m3/h	2982m3/h	51,2m3/h	52,9m3/h	80,1m3/h									
Maximum allowed back pressure	5,9kPa														
<b>ALTERNATOR</b>															
Brand	Tescom / Stamford														
Poles	4 Poles														
Frequency	50/60HZ														
Winding connections	Star														
Insulation	Class H														
Enclosure	IP23														
Power factor	0,8														
Altitude	1000m														
Exciter system	Self excitation														
Voltage regulator	AVR														
Steady state voltage regulation	± 1%														
Direction of rotation	Clockwise														
Cooling	Direct drive centrifugal blower fan														
(*) <b>TDJ220-485DT</b> Doosan Motor - Tescom Alternator / <b>TDJ220-485DS</b> Doosan Motor - Stamford Alternator															

# TECHNICAL SPECIFICATIONS



	TDJ510DT / TDJ510DSS (*)		TDJ585DT / TDJ585DSS (*)		TDJ630DT / TDJ630DSS (*)		TDJ705DT / TDJ705DSS (*)		TDJ750DT / TDJ750DSS (*)		TDJ825DT / TDJ825DSS (*)		TDJ1000DT / TDJ1000DSS (*)		
Standby (kVA/kW)	510	408	585	468	630	504	705	564	750	600	825	660	1000	800	
Prime (kVA/kW)	464	371	532	425	573	458	641	513	682	545	750	600	909	727	
Open type size (LxWxH mm)	3700 x 1600 x 1800		4000 x 1800 x 1900						4500 x 2000 x 1900						
With cabinet (LxWxH mm)	3700 x 1600 x 2050		4000 x 1800 x 2350						4500 x 2000 x 2350						
Open type weight (kg)	3612		3728		4280		4390		4775		4899		6281		
Open type weight (kg) (Except for antifreeze and oil)	3511		3627		4155		4265		4621		4745		6140		
Weight with cabinet (kg)	4287		4403		5025		5135		5520		5644		7991		
Weight with cabinet (kg) (Except for antifreeze and oil)	4186		4302		4900		5010		5366		5490		7850		
Tank capacity (L)	470		490						570						
<b>MOTOR</b>															
Frequency	50Hz														
Manufacturer and model	DOOSAN DP158LC	DOOSAN DP158LD	DOOSAN DP180LA	DOOSAN DP180LB	DOOSAN DP222LB	DOOSAN DP222LC	DOOSAN DP222CC								
Engine power	433/589 (kWm/hp)	494/672 (kWm/hp)	536/729 (kWm/hp)	596/810 (kWm/hp)	640/870 (kWm/hp)	699/950 (kWm/hp)	854/1161 (kWm/hp)								
Revolution per min.	1500 r.p.m														
Total displacement	14,618lt			18,273lt				21,927lt							
Cylinders orientation	8 Cylinders - V type			10 Cylinders - V type				12 Cylinders - V type							
Bore x Stroke	128 x 142mm														
Compression ratio	15:1		15:1						14.6:1						
Governor type	Electronical														
Aspiration system	Turbo CAC												Turbo Intercooler		
Injection	Direct														
Cooling	Water														
Electrical system	24VDC														
Lub-oil capacity	22lt			34lt				40lt				75lt			
Engine coolant capacity	79lt			91lt				114lt				66lt			
Cooling air flow	700 m3/min.						860 m3/min.				1266 m3/min.				
Fuel	Diesel														
<b>FUEL CONSUMPTION</b>															
100% Load	99,6lt/h	115,1lt/h	123,6lt/h	136,4lt/h	147,1lt/h	161lt/h	190lt/h								
75% Load	72,9lt/h	83,4lt/h	94,2lt/h	103,8lt/h	109,2lt/h	119,1lt/h	147lt/h								
50% Load	48,9lt/h	55,1lt/h	64,8lt/h	71,2lt/h	73lt/h	79,3lt/h	102lt/h								
<b>EXHAUST SYSTEM</b>															
Maximum exhaust temperature	507°C	536°C	540°C	563°C	459°C	478°C	530°C								
Maximum exhaust gas flow	88m3/h	98m3/h	106m3/h	118m3/h	101m3/h	108m3/h	123m3/h								
Maximum allowed back pressure	5,9kPa														
<b>ALTERNATOR</b>															
Brand	Tescom / Stamford														
Poles	4 Poles														
Frequency	50/60HZ														
Winding connections	Star														
Insulation	Class H														
Enclosure	IP23														
Power factor	0,8														
Altitude	1000m														
Exciter system	Self excitation														
Voltage regulator	AVR														
Steady state voltage regulation	± 1%														
Direction of rotation	Clockwise														
Cooling	Direct drive centrifugal blower fan														
(*) <b>TDJ510-1000DT</b> Doosan Motor - Tescom Alternator / <b>TDJ510-1000DS</b> Doosan Motor - Stamford Alternator															

# TECHNICAL SPECIFICATIONS



	TDJ33FPT		TDJ50FPT		TDJ66FPT		TDJ90FPT		TDJ110FPT		TDJ130FPT		TDJ175FPT		TDJ220FPT		
Standby (kVA/kW)	33	26	50	40	66	52	90	72	110	88	130	104	175	140	220	176	
Prime (kVA/kW)	30	24	45	36	60	48	82	65	100	80	118	95	159	127	200	160	
Open type size (LxWxH mm)	2200 x 1000 x 1100						2350 x 1000 x 1300				2750 x 1100 x 1500				3000 x 1100 x 1500		
With cabinet (LxWxH mm)	2200 x 1000 x 1400						2350 x 1000 x 1550				2750 x 1100 x 1750				3000 x 1100 x 1750		
Open type weight (kg)	686		711		1113		1131				1456		1494		2003		
Open type weight (kg) (Except for antifreeze and oil)	668,2		679,7		1081,7		1099,7				1424,7		1451,3		1960,3		
Weight with cabinet (kg)	826		871		1273		1416				1806		1844		2453		
Weight with cabinet (kg) (Except for antifreeze and oil)	808,2		839,7		1241,7		1384,7				1774,7		1801,3		2410,3		
Tank capacity (L)	150						170				250				280		
<b>MOTOR</b>																	
Frequency	50Hz																
Manufacturer and model	FPT-IVECO 80313 AM1P		FPT-IVECO NEI45 AM1A		FPT-IVECO NEI45 SM1A		FPT-IVECO NEI45 SM3		FPT-IVECO NEI45 IM2A		FPT-IVECO NEI45 IM3		FPT-IVECO NEI45 IM3		FPT-IVECO NEI67 IM7		
Output rating	32kW		50kW		59kW		81kW		96kW		118kW		152kW		194kW		
Fuel	Diesel																
Injection	Direct																
Aspiration	Naturally aspirated				Turbocharged				Aftercooler / Turbocharged								
Cylinders	3		4						6								
Bore and Stroke	104 x 115mm		104 x 132mm														
Displacement	2,9lt		4,5 lt						6,7lt								
Cooling	Water																
Engine oil specification	SAE 15W40																
Compression ratio	17:01		17,5:1														
Engine oil capacity (sump only)	8,8lt		12,8lt						17,2lt								
Coolant capacity (incl.radiator)	9lt		18,5lt						25,5lt								
Governor	Mechanical																
Air filter	Dry element																
<b>FUEL CONSUMPTION</b>																	
100% Load	6lt/h		11,6lt/h		13,7lt/h		19,4lt/h		22lt/h		27,6lt/h		36lt/h		42,1t/h		
75% Load	4,8lt/h		9,8lt/h		10,2lt/h		15,4lt/h		16,2lt/h		21,6lt/h		29lt/h		37,3lt/h		
50% Load	3,2lt/h		6,2lt/h		7lt/h		9,6lt/h		11lt/h		14,4lt/h		18lt/h		24lt/h		
<b>EXHAUST SYSTEM</b>																	
Maximum temperature	<525°C		<504°C		<483°C		<516°C		<535°C		<540°C		<570°C		<600°C		
Exhaust gas flow	153kg/h		211kg/h		325kg/h		345kg/h		533kg/h		538kg/h		739kg/h		793kg/h		
Maximum exhaust back pressure	70mBar		100mBar		50mBar		50mBar		50mBar		50mBar		50mBar		50mBar		
Exhaust flange size (internal dia.)	52mm		53mm		53mm		70mm		70mm		70mm		70mm		83mm		
<b>AIR SYSTEM</b>																	
Intake air flow	125m³/h		170m³/h		260m³/h		273m³/h		427m³/h		427m³/h		586m³/h				
Total cooling air flow	TBA				111,6m³/h				132m³/h				228m³/h				
<b>STARTING SYSTEM</b>																	
Starter motor	2,8kW						3kW										
Battery capacity	60Ah						72Ah		100Ah								
Auxiliary voltage	12V																
<b>ALTERNATOR</b>																	
Brand	Tescom																
Poles	4 Poles																
Frequency	50/60HZ																
Winding connections	Star																
Insulation	Class H																
Enclosure	IP23																
Power factor	0,8																
Altitude	1000m																
Exciter system	Self excitation																
Voltage regulator	AVR																
Steady state voltage regulation	± 1%																
Direction of rotation	Clockwise																
Cooling	Direct drive centrifugal blower fan																

# TECHNICAL SPECIFICATIONS



	TDJ275FPT		TDJ330FPT		TDJ385FPT		TDJ440FPT		TDJ495FPT		TDJ550FPT		TDJ660FPT		
Standby (kVA/kW)	275	220	330	264	385	308	440	352	495	396	550	440	660	528	
Prime (kVA/kW)	250	200	300	240	350	280	400	320	450	360	500	400	600	480	
Open type size (LxWxH mm)	3500 x 1200 x 1800				3700 x 1400 x 1800		3700 x 1600 x 1800				4000 x 1800 x 1900				
With cabinet (LxWxH mm)	3500 x 1200 x 2050				3700 x 1400 x 2050		3700 x 1600 x 2050				4000 x 1800 x 2350				
Open type weight (kg)	2154		2994		3069			3169		4792		5008			
Open type weight (kg) (Except for antifreeze and oil)	2109,2		2918		2967		2966		3098,9		4721,9		4923,5		
Weight with cabinet (kg)	2554		3444		3569			3639		5442		5658			
Weight with cabinet (kg) (Except for antifreeze and oil)	2509,2		3368		3467		3466		3568,9		5371,9		5573,5		
Tank capacity (L)	360				470				490						
<b>MOTOR</b>															
Frequency	50Hz														
Manufacturer and model	FPT-IVECO NEI67 IE8P		FPT-IVECO C87 IE4		FPT-IVECO C13 IE2A		FPT-IVECO C13 IE3A		FPT-IVECO CR13 IE6W		FPT-IVECO CR13 IE7W		FPT-IVECO CR16 IE1W		
Output rating	222kW		262kW		330kW		387kW		414kW		459kW		559kW		
Fuel	Diesel														
Injection	Direct														
Aspiration	Direct Common Rail				Direct E.U.I				Direct Electronic Common Rail						
Cylinders	6														
Bore and Stroke	104 x 132mm		117 x 135mm		135 x 150mm				141 x 170mm						
Displacement	6,7 lt		8,7 lt		12,88lt				15,9lt						
Cooling	Water														
Engine oil specification	SAE 15W40														
Compression ratio	17,5:1		16,5:1				15,5:1								
Engine oil capacity (sump only)	17,2lt		28lt		35lt		32lt								
Coolant capacity (incl.radiator)	27,6lt		48lt		67lt		68lt		38,1lt		52,5lt				
Governor	Electronical (ECU)														
Air filter	Dry element														
<b>FUEL CONSUMPTION</b>															
100% Load	51,5t/h		68,6t/h		70t/h		85,8t/h		89,9t/h		100,6t/h		115t/h		
75% Load	41,2t/h		55,6t/h		57,3t/h		70,4t/h		72,5t/h		80,2t/h		85t/h		
50% Load	26,2t/h		33,6t/h		38,8t/h		42,8t/h		51,8t/h		51,5t/h		57t/h		
<b>EXHAUST SYSTEM</b>															
Maximum temperature	<500°C		<511°C		<479°C		<445°C		<471°C		<520°C		<577,4°C		
Exhaust gas flow	970kg/h		1555kg/h		1865kg/h		2210kg/h		1731kg/h		2027kg/h		2548kg/h		
Maximum exhaust back pressure	30mBar		100mBar		50mBar										
Exhaust flange size (internal dia.)	70mm				94,5mm				106mm						
<b>AIR SYSTEM</b>															
Intake air flow	1000m <sup>3</sup> /h		1240m <sup>3</sup> /h		1495m <sup>3</sup> /h		1770m <sup>3</sup> /h		1443m <sup>3</sup> /h		1576m <sup>3</sup> /h		2435m <sup>3</sup> /h		
Total cooling air flow	246m <sup>3</sup> /h		339m <sup>3</sup> /h		408m <sup>3</sup> /h										
<b>STARTING SYSTEM</b>															
Starter motor	3kW		4,5kW		5,5kW		6kW		7,8kW						
Battery capacity	2 x 100Ah						2 x 120Ah								
Auxiliary voltage	24V														
<b>ALTERNATOR</b>															
Brand	Tescom														
Poles	4 Poles														
Frequency	50/60HZ														
Winding connections	Star														
Insulation	Class H														
Enclosure	IP23														
Power factor	0,8														
Altitude	1000m														
Exciter system	Self excitation														
Voltage regulator	AVR														
Steady state voltage regulation	± 1%														
Direction of rotation	Clockwise														
Cooling	Direct drive centrifugal blower fan														



# TECHNICAL SPECIFICATIONS



	TDJ76ST		TDJ100ST		TDJ135ST		TDJ150ST		TDJ175ST		TDJ200ST		TDJ225ST		TDJ236ST		TDJ260ST		TDJ300ST		TDJ330ST		
Standby (kVA/kW)	76	61	100	80	135	108	150	120	175	140	200	160	225	180	236	189	260	208	300	240	330	264	
Prime (kVA/kW)	69	55	91	73	123	98	136	109	159	127	180	144	205	164	215	172	236	189	273	218	300	240	
Open type size (LxWxH mm)	2200x1000x1100		2350x1000x1300		2750 x 1100 x 1500				3000 x 1100 x 1500				3500 x 1200 x 1800										
With cabinet (LxWxH mm)	2200x1000x1400		2350x1000x1550		2750 x 1100 x 1750				3000 x 1100 x 1750				3500 x 1200 x 2050										
Open type weight (kg)	1084		1158		1412		1414		1672		1673		1761		1927		1943		2415		2689		
Open type weight (kg) (Except for antifreeze and oil)	1047,7		1121,2		1375,2		1377,2		1623,4		1624,4		1712,4		1868		1884		2350		2571,8		
Weight with cabinet (kg)	1344		1418		1742		1744		2102		2103		2191		2357		2373		2905		3334		
Weight with cabinet (kg) (Except for antifreeze and oil)	1307,7		1381,2		1705,2		1707,2		2053,4		2054,4		2142,4		2298		2314		2840		3219,8		
Tank capacity (L)	150		170		250				280				360										
<b>MOTOR</b>																							
Frequency	50Hz																						
Manufacturer and model	SDEC SC4H95D2	SDEC SC4H115D2	SDEC SC4H160D2	SDEC SC4H180D2	SDEC SC7H230D2	SDEC SC7H230D2	SDEC SC7H250D2	SDEC SC9D280D2	SDEC SC9D310D2	SDEC SC9D340D2	S SDEC C10E380D2												
Engine power	68/92 (kWm/hp)	86/117 (kWm/hp)	116/158 (kWm/hp)	132/179 (kWm/hp)	170/231 (kWm/hp)		185kW		204/277 (kWm/hp)	228/310 (kWm/hp)	250/340 (kWm/hp)	262/356 (kWm/hp)											
Revolution per min.	1500r.p.m																						
Total displacement	4,3lt				6,44lt				8,27lt				8,82lt		11,8lt								
Cylinders orientation	4 Vertical In-line				6 Vertical In-line																		
Bore x Stroke	105 x 124 mm														114 x 135mm		114 x 144mm		128 x 135mm				
Compression ratio	17,3:1		16:1				16:01		18:1		16,5:1		17:1										
Governor type	Electronical																						
Aspiration system	Turbo				Turbo AAC																		Turbocharged
Injection	Direct																						
Cooling	Water																						
Electrical system	24VDC																						
Lub-oil capacity	13lt				17,5lt				19lt				25lt		41lt								
Engine coolant capacity	23,8lt				31,1lt				40lt				73,2lt										
Cooling air flow	-																		18,6m <sup>3</sup> /min		17,3m <sup>3</sup> /min		
Fuel	Diesel																						
<b>FUEL CONSUMPTION</b>																							
100% Load	14,8lt/h	20,2lt/h	25lt/h	28,6lt/h	36lt/h	36lt/h	39,3lt/h	48,6lt/h	50,6lt/h	54,1lt/h	60,8lt/h												
75% Load	11lt/h	15,2lt/h	16,7lt/h	21,4lt/h	26,8lt/h	26,8lt/h	29,1lt/h	36,2lt/h	38,2lt/h	40,8lt/h	49,4lt/h												
50% Load	7,5lt/h	10,3lt/h	12,8lt/h	14,4lt/h	17,8lt/h	17,8lt/h	19,4lt/h	24,3lt/h	26,3lt/h	27,3lt/h	32,1lt/h												
<b>EXHAUST SYSTEM</b>																							
Max. exhaust temperature	600°C																						
Max. exhaust gas flow	10,4m <sup>3</sup> /h	14,1m <sup>3</sup> /h	16,3m <sup>3</sup> /h	18,2m <sup>3</sup> /h	27,2m <sup>3</sup> /h				35,9m <sup>3</sup> /h				41m <sup>3</sup> /h		2628m <sup>3</sup> /h								
Max. allowed back pressure	6kPa				5kPa																		6kPa
<b>ALTERNATOR</b>																							
Brand	Tescom																						
Poles	4 Poles																						
Frequency	50/60HZ																						
Winding connections	Star																						
Insulation	Class H																						
Enclosure	IP23																						
Power factor	0,8																						
Altitude	1000m																						
Exciter system	Self excitation																						
Voltage regulator	AVR																						
Steady state voltage regulation	± 1%																						
Direction of rotation	Clockwise																						
Cooling	Direct drive centrifugal blower fan																						

# TECHNICAL SPECIFICATIONS



	TDJ400ST		TDJ440ST		TDJ500ST		TDJ550ST		TDJ600ST		TDJ660ST		TDJ725ST		TDJ800ST		TDJ900ST		TDJ1000ST		TDJ1100ST	
Standby (kVA/kW)	400	320	440	352	520	416	550	440	600	480	660	528	725	580	800	640	900	720	1000	800	1100	880
Prime (kVA/kW)	364	291	400	320	472	377,6	500	400	540	436	600	480	659	527	727	582	818	655	910	727	1000	800
Open type size (LxWxH mm)	3700 x 1400 x 1800		3700 x 1600 x 1800				4000 x 1800 x 1900						4500 x 2000 x 1900									
With cabinet (LxWxH mm)	3700 x 1400 x 2050		3700 x 1600 x 2050				4000 x 1800 x 2350						4500 x 2000 x 2350									
Open type weight (kg)	3099		3452		4890		4940		5102		5103		5278		5636		7123		7512		8578	
Open type weight (kg) (Except for antifreeze and oil)	2982,5		3335,5		4710		4760		4922		4923		5098		5456		7048		7279		8320	
Weight with cabinet (kg)	3744		4097		5815		5865		6027		6028		6203		6502		8833		9222		10288	
Weight with cabinet (kg) (Except for antifreeze and oil)	3627,5		3980,5		5635		5685		5847		5848		5843		6322		8758		8989		10030	
Tank capacity (L)	470								490								570					
<b>MOTOR</b>																						
Frequency	50Hz																					
Manufacturer and model	SDEC SC15G500D2		SDEC SC25G610D2		SDEC SC25G610D2		SDEC SC25G690D2		SDEC SC27G755D2		SDEC SC27G830D2		SDEC SC27G900D2		SDEC 6KTAA25-G32		SDEC SC3W1150D2		SDEC 6WTA35-G31			
Engine power	373/507 (kWm/hp)		445/605 (kWm/hp)		505/687 (kWm/hp)		555/755 (kWm/hp)		610/830 (kWm/hp)		662/900 (kWm/hp)		754/1025 (kWm/hp)		860/1169 (kWm/hp)		970/1320 (kWm/hp)					
Revolution per min.	1500 r.p.m																					
Total displacement	14,16lt		25,8lt				26,6lt						25,18lt		32,8lt		35,1lt					
Cylinders orientation	6 Vertical In-line		12 Vertical In-line												6 Vertical In-line							
Bore x Stroke	136 x 165mm		135 x 150mm				135 x 155mm						170 x 185mm		180 x 215mm		186 x 215mm					
Compression ratio	15,55:1		16:1												14,5:1		15:1					
Governor type	Electronical																					
Aspiration system	Turbo AAC																					
Injection	Direct																					
Cooling	Water																					
Electrical system	24VDC																					
Lub-oil capacity	41lt		65lt								75lt				100lt							
Engine coolant capacity	75,5lt		115lt								TBA				158lt							
Cooling air flow	TBA																					
Fuel	Diesel																					
<b>FUEL CONSUMPTION</b>																						
100% Load	73,8lt/h		81lt/h		100,4lt/h		113,8lt/h		126lt/h		141lt/h		148,8lt/h		163lt/h		101,1lt/h		188,1lt/h			
75% Load	54,3lt/h		60lt/h		75,8lt/h		85,9lt/h		95,3lt/h		106,7lt/h		163,7lt/h		124lt/h		146,3lt/h		136,6lt/h			
50% Load	37,4lt/h		41lt/h		53,6lt/h		60,7lt/h		66,3lt/h		74,1lt/h		76,7lt/h		84lt/h		193,5lt/h		92,9lt/h			
<b>EXHAUST SYSTEM</b>																						
Max. exhaust temperature	600°C		650°C				600°C				650°C		690°C				650°C					
Max. exhaust gas flow	50,5m <sup>3</sup> /h		86m <sup>3</sup> /h				88,6m <sup>3</sup> /h		91,8m <sup>3</sup> /h		99,5m <sup>3</sup> /h		138m <sup>3</sup> /h		TBA		194,1m <sup>3</sup> /h		162,6m <sup>3</sup> /h			
Max. allowed back pressure	5kPa				6kPa		5kPa		10kPa						6kPa							
<b>ALTERNATOR</b>																						
Brand	Tescom																					
Poles	4 Poles																					
Frequency	50/60HZ																					
Winding connections	Star																					
Insulation	Class H																					
Enclosure	IP23																					
Power factor	0,8																					
Altitude	1000m																					
Exciter system	Self excitation																					
Voltage regulator	AVR																					
Steady state voltage regulation	± 1%																					
Direction of rotation	Clockwise																					
Cooling	Direct drive centrifugal blower fan																					

# TECHNICAL SPECIFICATIONS



	TDJ22P		TDJ33P		TDJ50P		TDJ66P		TDJ70P		TDJ88P		TDJ110P		TDJ150P	
Standby (kVA/kW)	22	17,6	33	26,4	50	40	66	52,8	70	56	88	70,4	110	88	150	120
Prime (kVA/kW)	20	16	30	24	45	36	60	48	63	50,4	80	64	100	80	135	108
Open type size (LxWxH mm)	2000 x 900 x 1000		2200 x 1000 x 1100						2350 x 1000 x 1300				2750 x 1100 x 1500			
With cabinet (LxWxH mm)	2000 x 900 x 1300		2200 x 1000 x 1400						2350 x 1000 x 1550				2750 x 1100 x 1750			
Open type weight (kg)	619		686		711		1113				1131		1456			
Open type weight (kg) (Except for antifreeze and oil)	601,4		667,5		692,5		1094,5		1092		1110		1110,4		1417	
Weight with cabinet (kg)	769		826		871		1273				1416		1806			
Weight with cabinet (kg) (Except for antifreeze and oil)	751,4		807,5		852,5		1254,5		1252		1395		1395,4		1767	
Tank capacity (L)	110		150						170				250			
<b>MOTOR</b>																
Frequency	50Hz															
Manufacturer and model	Perkins 404A 22G1		Perkins 1103A 33G		Perkins 1103A 33TG1		Perkins 1103A 33TG2		Perkins 1104A 44TG1		Perkins 1104A 44TG2		Perkins 1104C 44TAG2		Perkins 1106A-70TG1	
Output rating	20,6kW		30,4kW		45,6kW		59,3kW		64,3kW		79,1kW		99,5kW		135,8kW	
Fuel	Diesel															
Injection	Direct															
Aspiration	Naturally aspirated				Turbocharged								Aftercooler / Turbocharged		Turbocharged	
Cylinders	4		3						4				6			
Bore and Stroke	84 x 100mm		105 x 127mm						105 x 135mm							
Displacement	2,216lt		3,3 lt						4,4 lt				7,01 lt			
Cooling	Water															
Engine oil specification	SAE 15W40															
Compression ratio	23,3:1		19,25:1		17,25:1						18-23:1		18.2:1			
Engine oil capacity (sump only)	10,6lt		8,3lt						8lt				18lt			
Coolant capacity (incl.radiator)	7lt		10,2lt						13lt		12,6lt		21lt			
Governor	Mechanical								Electronical							
Air filter	Dry element															
<b>FUEL CONSUMPTION</b>																
100% load	5,3lt/h		7,1lt/h		10,7lt/h		13,9lt/h		14,8lt/h		18,7lt/h		22,6lt/h		30,3lt/h	
75% load	4lt/h		5,4lt/h		8,2lt/h		10,4lt/h		11,2lt/h		14,0lt/h		17,1lt/h		22,7lt/h	
50% load	2,9lt/h		3,9lt/h		5,7lt/h		7,2lt/h		8lt/h		9,7lt/h		11,8lt/h		15,9lt/h	
<b>EXHAUST SYSTEM</b>																
Maximum temperature	<505°C		<520°C		<537°C		<571°C		<550°C		<580°C		<543°C		<576°C	
Exhaust gas flow	3,94m <sup>3</sup> /min		5,8m <sup>3</sup> /min		7,7m <sup>3</sup> /min		10,4m <sup>3</sup> /min		11,4m <sup>3</sup> /min		13,3m <sup>3</sup> /min		16,3m <sup>3</sup> /min		22,6m <sup>3</sup> /min	
Maximum exhaust back pressure	102mBar		80mBar		100mBar						180mBar		60mBar			
Exhaust flange size (internal dia.)	42mm		52mm				56mm		64mm				72mm			
<b>AIR SYSTEM</b>																
Intake air flow	1,45m <sup>3</sup> /min		2,13m <sup>3</sup> /min		3,1m <sup>3</sup> /min				4,2m <sup>3</sup> /min		5,14m <sup>3</sup> /min		6,27m <sup>3</sup> /min		8,09m <sup>3</sup> /min	
Air intake temperature rise	40,3lt/min		53m <sup>3</sup> /min						89m <sup>3</sup> /min				165,6m <sup>3</sup> /min		182m <sup>3</sup> /min	
<b>STARTING SYSTEM</b>																
Starter motor	2kW		3kW						4,2kW							
Battery capacity	60Ah						72Ah				100Ah					
Auxiliary voltage	12V															
<b>ALTERNATOR</b>																
Brand	Leroy Somer, Meccalte															
Poles	4 Poles															
Frequency	50/60HZ															
Winding connections	Star															
Insulation	Class H															
Enclosure	IP23															
Power factor	0,8															
Altitude	1000m															
Exciter system	Self excitation															
Voltage regulator	AVR															
Steady state voltage regulation	± 1%															
Direction of rotation	Clockwise															
Cooling	Direct drive centrifugal blower fan															



# TECHNICAL SPECIFICATIONS



	TDJ165P		TDJ220P		TDJ250P		TDJ275P		TDJ330P		TDJ385P		TDJ440P		TDJ500P	
Standby (kVA/kW)	165	132	220	176	250	200	275	220	330	264	385	308	440	352	500	400
Prime (kVA/kW)	150	120	200	160	225	180	250	200	300	240	350	280	400	320	450	360
Open type size (LxWxH mm)	2750 x 1100 x 1500		3000 x 1100 x 1500		3500 x 1200 x 1800				3700 x 1400 x 1800		3700 x 1600 x 1800					
With cabinet (LxWxH mm)	2750 x 1100 x 1750		3000 x 1100 x 1750		3500 x 1200 x 2050				3700 x 1400 x 2050		3700 x 1600 x 2050					
Open type weight (kg)	1494		2003		2154				2317		2994		3069			
Open type weight (kg) (Except for antifreeze and oil)	1455		1964		2113				2242,8		2902,6		2977,6		2949	
Weight with cabinet (kg)	1844		2453		2554				2767		3444		3569			
Weight with cabinet (kg) (Except for antifreeze and oil)	1805		2414		2513				2692,8		3352,6		3477,6		3449	
Tank capacity (L)	250		280		360								470			
<b>MOTOR</b>																
Frequency	50Hz															
Manufacturer and model	Perkins 1106A 70TAG2		Perkins 1106A 70TAG4		Perkins 1206A E70TTAG2		Perkins 1206A E70TTAG3		Perkins 1706A E93TAG1		Perkins 1706A E93TAG2		Perkins 220 6A E13TAG3		Perkins 250 6A E15TAG1	
Output rating	149,1kW		196,3kW		226,1kW		248,6kW		293kW		368kW		412,5kW		451kW	
Fuel	Diesel															
Injection	Direct															
Aspiration	Aftercooler/Turbocharged															
Cylinders	6															
Bore and Stroke	105 x 135mm				112 x 149mm				130 x 157mm				130 x 171mm			
Displacement	7,01 lt				8,8 lt				12,5 lt				15,2 lt			
Cooling	Water															
Engine oil specification	SAE 15W40															
Compression ratio	18.2:1		16:01		15.8:1				16,1:1		16,3:1					
Engine oil capacity (sump only)	18lt				16lt				41lt		40lt		62lt			
Coolant capacity (incl.radiator)	21lt				25lt				33,2lt		51,4lt		58lt			
Governor	Electronical															
Air filter	Dry element															
<b>FUEL CONSUMPTION</b>																
100% load	30,4lt/h		45,8lt/h		51lt/h		56,9lt/h		64,9lt/h		71lt/h		81lt/h		95lt/h	
75% load	24,7lt/h		34,7lt/h		38lt/h		41,5lt/h		48,2lt/h		54lt/h		62lt/h		72lt/h	
50% load	16,4lt/h		23,1lt/h		25,5lt/h		28,1lt/h		33,0lt/h		37lt/h		42lt/h		50lt/h	
<b>EXHAUST SYSTEM</b>																
Max. temperature	<484°C		<550°C		TBA				<574°C		<630°C		<550°C			
Exhaust gas flow	25,53m <sup>3</sup> /min		36,8m <sup>3</sup> /min		TBA				50m <sup>3</sup> /min		64,8m <sup>3</sup> /min		72,5m <sup>3</sup> /min		81m <sup>3</sup> /min	
Max. exhaust back pressure	60mBar				TBA				100mBar		68mBar					
Exhaust flange size (internal dia.)	72mm				72mm				TBAmm		123mm		127mm			
<b>AIR SYSTEM</b>																
Intake air flow	10,67m <sup>3</sup> /min		13,2m <sup>3</sup> /min		TBA				18,3m <sup>3</sup> /min		23,6m <sup>3</sup> /min		26,4m <sup>3</sup> /min		30,5m <sup>3</sup> /min	
Air intake temperature rise	282m <sup>3</sup> /min				TBA				370m <sup>3</sup> /min		654m <sup>3</sup> /min		866m <sup>3</sup> /min			
<b>STARTING SYSTEM</b>																
Starter motor	4,2kW				TBA				5,3 or 6 kW		7,8kW		7,5kW			
Battery capacity	100Ah				TBA				2 x 100Ah		2 x 120Ah					
Auxiliary voltage	12V				TBA				24V		TBA					
<b>ALTERNATOR</b>																
Brand	Leroy Somer, Meccalte															
Poles	4 Poles															
Frequency	50/60HZ															
Winding connections	Star															
Insulation	Class H															
Enclosure	IP23															
Power factor	0,8															
Altitude	1000m															
Exciter system	Self excitation															
Voltage regulator	AVR															
Steady state voltage regulation	± 1%															
Direction of rotation	Clockwise															
Cooling	Direct drive centrifugal blower fan															

# TECHNICAL SPECIFICATIONS



	TDJ550P		TDJ660P		TDJ715P		TDJ825P		TDJ880P		TDJ1100P		TDJ1250P			
Standby (kVA/kW)	550	440	660	528	725	580	825	660	880	704	1100	888	1250	1000		
Prime (kVA/kW)	500	400	600	480	650	520	750	600	800	640	1000	800	1125	900		
Open type size (LxWxH mm)	3700 x 1600 x 1800		4000 x 1800 x 1900				4500 x 2000 x 1900				TBA					
With cabinet (LxWxH mm)	3700 x 1600 x 2050		4000 x 1800 x 2350				4500 x 2000 x 2350									
Open type weight (kg)	3169		5528		6928		7318		7481						8246	
Open type weight (kg) (Except for antifreeze and oil)	3049		5405		6805		7140,5		7247,6						7954	
Weight with cabinet (kg)	3639		6278		8128		8518		8681						10746	
Weight with cabinet (kg) (Except for antifreeze and oil)	3519		6155		8005		8340,5		8447,6						10454	
Tank capacity (L)	470		490				570									
<b>MOTOR</b>																
Frequency	50Hz															
Manufacturer and model	Perkins 250 6A E15TAG2		Perkins 280 6A E18TAG1A		Perkins 280 6A E18TAG2		Perkins 280 6A E18TTAG5 SAE1 14		Perkins 4006 23TAG3A		Perkins 4008 TAG2A		Perkins 4008 30TAG3			
Output rating	495kW		592kW		628kW		743kW		786kW		924kW		1105kW			
Fuel	Diesel															
Injection	Direct															
Aspiration	Aftercooler/Turbocharged							Turbocharged		Turbocharged and Aircooled		Turbocharged and air to air charge cooled				
Cylinders	6											8				
Bore and Stroke	130 x 171 mm		145 x 183mm						160 x 19 mm							
Displacement	15,2 lt		18,13 lt				18,1 lt		22,92 lt		30,56 lt					
Cooling	Water															
Engine oil specification	SAE 15W40															
Compression ratio	16,3:1		14,5:1				14:01				13,6:1		13:01			
Engine oil capacity (sump only)			62lt				68lt		113,4lt		149lt		153lt			
Coolant capacity (incl.radiator)	58lt		61lt				109,5lt		120lt		143lt		140lt			
Governor	Electronical															
Air filter	Dry element															
<b>FUEL CONSUMPTION</b>																
100% load	100lt/h		123lt/h		132lt/h		162lt/h		172lt/h		220lt/h		244lt/h			
75% load	76lt/h		90lt/h		97lt/h		118lt/h		130lt/h		160lt/h		188lt/h			
50% load	53lt/h		61lt/h		66lt/h		81lt/h		90lt/h		108lt/h		120lt/h			
<b>EXHAUST SYSTEM</b>																
Maximum temperature	<550°C		<571°C		<553°C		<474°C		<500°C		<440°C		<482°C			
Exhaust gas flow	98m <sup>3</sup> /min		104m <sup>3</sup> /min		114m <sup>3</sup> /min		142m <sup>3</sup> /min		193m <sup>3</sup> /min		183m <sup>3</sup> /min		240m <sup>3</sup> /min			
Maximum exhaust back pressure	68mBar		69mBar				100mBar		60mBar		TBA		70mBar			
Exhaust flange size (internal dia.)	127mm		202mm				139,7mm		152,4mm		152mm					
<b>AIR SYSTEM</b>																
Intake air flow	36,6m <sup>3</sup> /min		36m <sup>3</sup> /min		40m <sup>3</sup> /min		62m <sup>3</sup> /min		73m <sup>3</sup> /dk		74m <sup>3</sup> /min		96m <sup>3</sup> /min			
Air intake temperature rise	722m <sup>3</sup> /min		702m <sup>3</sup> /min				TBA				870m <sup>3</sup> /min		TBA			
<b>STARTING SYSTEM</b>																
Starter motor	7,5kW		9kW						7,5kW		8,2kW					
Battery capacity	2 x 120Ah								2 x 150Ah							
Auxiliary voltage	24V															
<b>ALTERNATOR</b>																
Brand	Leroy Somer, Meccalte															
Poles	4 Poles															
Frequency	50/60HZ															
Winding connections	Star															
Insulation	Class H															
Enclosure	IP23															
Power factor	0,8															
Altitude	1000m															
Exciter system	Self excitation															
Voltage regulator	AVR															
Steady state voltage regulation	± 1%															
Direction of rotation	Clockwise															
Cooling	Direct drive centrifugal blower fan															





# TECHNICAL SPECIFICATIONS



	TDJ25BT / TDJ25BS (*)		TDJ35BT / TDJ35BS (*)		TDJ44BT / TDJ44BS (*)		TDJ50BT / TDJ50BS (*)		TDJ55BT / TDJ55BS (*)		TDJ70BT / TDJ70BS (*)		TDJ88BT / TDJ88BS (*)		
Standby (kVA/kW)	25	20	35	28	44	35	50	40	55	44	70	56	88	70	
Prime (kVA/kW)	23	18	32	25	40	32	45	36	50	40	63	51	80	64	
Open type size (LxWxH mm)	2200 x 1000 x 1100											2350 x 1000 x 1300			
With cabinet (LxWxH mm)	2200 x 1000 x 1400											2350 x 1000 x 1550			
Open type weight (kg)	554		613		661		686		714		906		1135		
Open type weight (kg) (Except for antifreeze and oil)	533,9		592,1		640,1		666,1		696,4		872,4		1101,4		
Weight with cabinet (kg)	749		808		869		894		922		1126		1395		
Weight with cabinet (kg) (Except for antifreeze and oil)	728,9		787,1		848,1		874,1		904,4		1092,4		1361,4		
Tank capacity (L)	150											170			
<b>MOTOR</b>															
Frequency	50Hz														
Manufacturer and model	BAUDOUIIN 4M06G25/5		BAUDOUIIN 4M06G35/5		BAUDOUIIN 4M06G44/5		BAUDOUIIN 4M06G50/5		BAUDOUIIN 4M06G55/5		BAUDOUIIN 4M10G70/5		BAUDOUIIN 4M10G88/5		
Engine power	24/32 (kWm/hp)		32/43 (kWm/hp)		40/54 (kWm/hp)		47/62 (kWm/hp)		51/69 (kWm/hp)		63/85 (kWm/hp)		77/104 (kWm/hp)		
Revolution per min.	1500r.p.m														
Total displacement	2,3lt											4,087			
Cylinders orientation	4 Cylinders Vertical In-line														
Bore x Stroke	89 x 92mm											105 x 118mm			
Compression ratio	17,5:1														
Governor type	Electronical														
Aspiration system	Naturally aspirated		Turbocharged												
Injection	Direct														
Cooling	Water														
Electrical system	12VDC														
Lub-oil capacity	11,5lt						9,2lt			16lt					
Engine coolant capacity	8,6lt		9,4lt				8,4lt				17,9lt				
Cooling air flow	63m3/min		48m3/min		84,3m3/min		102m3/min				146m3/min				
Fuel	Diesel														
<b>FUEL CONSUMPTION</b>															
100% load	6,1lt/h		7,6lt/h		9,5lt/h		10,7lt/h		11,9lt/h		15lt/h		18,8lt/h		
75% load	4,5lt/h		5,7lt/h		7lt/h		8lt/h		8,9lt/h		11,1lt/h		13,5lt/h		
50% load	3,2lt/h		4lt/h		4,7lt/h		5,4lt/h		6lt/h		7,7lt/h		9,1lt/h		
<b>EXHAUST SYSTEM</b>															
Maximum exhaust temperature	700°C														
Maximum exhaust gas flow	319,2m³/h		389m³/h		475,2m³/h		565,2m³/h		583,2m³/h		852m³/h		1035m³/h		
Maximum allowed back pressure	8kPa											7,5kPa		5kPa	
<b>ALTERNATOR</b>															
Brand	Tescom / Stamford														
Poles	4 Poles														
Frequency	50/60HZ														
Winding connections	Star														
Insulation	Class H														
Enclosure	IP23														
Power factor	0,8														
Altitude	1000m														
Exciter system	Self excitation														
Voltage regulator	AVR														
Steady state voltage regulation	± 1%														
Direction of rotation	Clockwise														
Cooling	Direct drive centrifugal blower fan														
(*) <b>TDJ25-88BT</b> Baudouin Motor - Tescom Alternator / <b>TDJ25-88BS</b> Baudouin Motor - Stamford Alternator															

# TECHNICAL SPECIFICATIONS



	TDJ110BT / TDJ110BS (*)		TDJ150BT / TDJ150BS (*)		TDJ165BT / TDJ165BS (*)		TDJ220BT / TDJ165BS (*)		TDJ250BT / TDJ250BS (*)		TDJ275BT / TDJ275BS (*)		TDJ350BT / TDJ350BS (*)	
Standby (kVA/kW)	110	88	150	120	165	132	220	176	250	200	275	220	350	280
Prime (kVA/kW)	100	80	136	109	150	120	200	160	227	182	250	200	317	254
Open type size (LxWxH mm)	2350 x 1000 x 1300		2750 x 1100 x 1500				3000 x 1100 x 1500		3500 x 1200 x 1800				3700 x 1400 x 1800	
With cabinet (LxWxH mm)	2350 x 1000 x 1550		2750 x 1100 x 1750				3000 x 1100 x 1750		3500 x 1200 x 2050				3700 x 1400 x 2050	
Open type weight (kg)	1106		1486		1558		2085		2252		2275		2580	
Open type weight (kg) (Except for antifreeze and oil)	1066,4		1447		1513		2020		2180		2210		2506	
Weight with cabinet (kg)	1366		1816		1888		2585		2882		2905		3225	
Weight with cabinet (kg) (Except for antifreeze and oil)	1326,4		1777		1843		2520		2810		2840		3151	
Tank capacity (L)	170		250				280		360				470	
<b>MOTOR</b>														
Frequency	50Hz													
Manufacturer and model	BAUDOUIIN 4M10G110/5		BAUDOUIIN 6M11G2D0/5		BAUDOUIIN 6M11G4D0/5		BAUDOUIIN 6M16G220/5		BAUDOUIIN 6M16G4D0/5		BAUDOUIIN 6M16G275/5		BAUDOUIIN 6M16G350/5	
Engine power	96/129 (kWm/hp)		127/170 (kWm/hp)		147/197 (kWm/hp)		191/257 (kWm/hp)		225/302 (kWm/hp)		251/337 (kWm/hp)		305/409 (kWm/hp)	
Revolution per min.	1500r.p.m													
Total displacement	4,087lt		6,75lt				9,726lt				9,72lt			
Cylinders orientation	4 Cylinders Vertical In-line		6 Cylinders Vertical In-line											
Bore x Stroke	105 x 118mm		105 x 130mm				126 x 130mm							
Compression ratio	17.5 : 1		18:1				17:1							
Governor type	Electronical													
Aspiration system	Turbocharged													
Injection	Direct													
Cooling	Water													
Electrical system	12VDC						24VDC							
Lub-oil capacity	16lt		19lt				30lt							
Engine coolant capacity	23,6lt		20lt				35lt		42lt		35lt		44lt	
Cooling air flow	175m3/min		304,5m3/min				415m3/min				450m3/min			
Fuel	Diesel													
<b>FUEL CONSUMPTION</b>														
100% load	21,25lt/h		30,2lt/h		32,6lt/h		43,1lt/h		50,9lt/h		56,9lt/h		70,5lt/h	
75% load	16,01lt/h		23,1lt/h		24,6lt/h		32,4lt/h		38lt/h		42,2lt/h		52,3lt/h	
50% load	10,58lt/h		15,9lt/h		16,7lt/h		22,4lt/h		25,8lt/h		28,3lt/h		35,4lt/h	
<b>EXHAUST SYSTEM</b>														
Maximum exhaust temperature	700°C												720°C	
Maximum exhaust gas flow	1297,8m³/h		1419m³/h		1440m³/h		2289m³/h		2664m³/h		3036m³/h		3492m³/h	
Maximum allowed back pressure	5kPa		6kPa				11kPa							
<b>ALTERNATOR</b>														
Brand	Tescom / Stamford													
Poles	4 Poles													
Frequency	50/60HZ													
Winding connections	Star													
Insulation	Class H													
Enclosure	IP23													
Power factor	0,8													
Altitude	1000m													
Exciter system	Self excitation													
Voltage regulator	AVR													
Steady state voltage regulation	± 1%													
Direction of rotation	Clockwise													
Cooling	Direct drive centrifugal blower fan													
(*) TDJ110-350BT Baudouin Motor - Tescom Alternator / TDJ110-350BS Baudouin Motor - Stamford Alternator														

# TECHNICAL SPECIFICATIONS



	TDJ400BT / TDJ400BS (*)		TDJ440BT / TDJ440BS (*)		TDJ500BT / TDJ500BS (*)		TDJ550BT / TDJ550BS (*)		TDJ660BT / TDJ660BS (*)		TDJ715BT / TDJ715BS (*)		
Standby (kVA/kW)	400	320	440	352	500	400	550	440	660	528	715	572	
Prime (kVA/kW)	364	291	400	320	455	364	500	400	600	480	650	520	
Open type size (LxWxH mm)	3700 x 1400 x 1800		3700 x 1600 x 1800				4000 x 1800 x 1900						
With cabinet (LxWxH mm)	3700 x 1400 x 2050		3700 x 1600 x 2050				4000 x 1800 x 2350						
Open type weight (kg)	2948		3228		3041		3319		4440		5328		
Open type weight (kg) (Except for antifreeze and oil)	2861		3141		2954		3217		4294		5105		
Weight with cabinet (kg)	3578		3858		3686		4226		5345		6233		
Weight with cabinet (kg) (Except for antifreeze and oil)	3491		3771		3599		4124		5199		6010		
Tank capacity (L)	470						490						
<b>MOTOR</b>													
Frequency	50Hz												
Manufacturer and model	BAUDOUIIN 6M21G400/5		BAUDOUIIN 6M21G440/5		BAUDOUIIN 6M21G500/5		BAUDOUIIN 6M21G550/5		BAUDOUIIN 8M21G660/5		BAUDOUIIN 6M33G715/5		
Engine power	362/486 (kWm/hp)		382/512 (kWm/hp)		430/577 (kWm/hp)		476/638 (kWm/hp)		548/735 (kWm/hp)		608/816 (kWm/hp)		
Revolution per min.	1500r.p.m												
Total displacement	12,54lt						16,72lt		19,6lt				
Cylinders orientation	6 Cylinders Vertical In-line								8 Cylinders V type		6 Cylinders Vertical In-line		
Bore x Stroke	127 x 165mm						150 x 185mm						
Compression ratio	16:1				15,2 : 1		15:1						
Governor type	Electronical												
Aspiration system	Turbocharged												
Injection	Direct												
Cooling	Water												
Electrical system	24VDC												
Lub-oil capacity	40lt						45lt		64lt				
Engine coolant capacity	47lt				62lt		101lt		159lt				
Cooling air flow	398m3/min			550m3/min		474m3/min		800m3/min		783,3m3/min			
Fuel	Diesel												
<b>FUEL CONSUMPTION</b>													
100% load	82,1lt/h		85,5lt/h		95,9lt/h		109,5lt/h		124,2lt/h		136,3lt/h		
75% load	60,7lt/h		63,5lt/h		69,6lt/h		75,3lt/h		95,4lt/h		100lt/h		
50% load	41lt/h		43,2lt/h		46,6lt/h		51lt/h		64,7lt/h		67,1lt/h		
<b>EXHAUST SYSTEM</b>													
Maximum exhaust temperature	740°C						720°C		750°C				
Maximum exhaust gas flow	3900m³/h		4140m³/h		5940m³/h		6888m³/h		7512m³/h		8442m³/h		
Maximum allowed back pressure	12kPa						7,5kPa						
<b>ALTERNATOR</b>													
Brand	Tescom / Stamford												
Poles	4 Poles												
Frequency	50/60HZ												
Winding connections	Star												
Insulation	Class H												
Enclosure	IP23												
Power factor	0,8												
Altitude	1000m												
Exciter system	Self excitation												
Voltage regulator	AVR												
Steady state voltage regulation	± 1%												
Direction of rotation	Clockwise												
Cooling	Direct drive centrifugal blower fan												
(*) TDJ400-715BT Baudouin Motor - Tescom Alternator / TDJ400-715BS Baudouin Motor - Stamford Alternator													

# TECHNICAL SPECIFICATIONS



	TDJ750BT / TDJ750BS (*)		TDJ825BT / TDJ825BS (*)		TDJ900BT / T DJ900BS (*)		TDJ1000BT / T DJ1000BS (*)		TDJ1100BT / TDJ1100BS (*)		TDJ1250BT / TDJ1250BS (*)	
Standby (kVA/kW)	750	600	825	660	900	720	1000	800	1100	880	1250	1000
Prime (kVA/kW)	681	545	750	600	817	654	909	727	1000	800	1136	909
Open type size (LxWxH mm)	4000 x 1800 x 1900		4500 x 2000 x 1900									
With cabinet (LxWxH mm)	4000 x 1800 x 2350		4500 x 2000 x 2350									
Open type weight (kg)	TBA		6293		7659		7773		7848		TBA	
Open type weight (kg) (Except for antifreeze and oil)			6070		7391		7505		7580			
Weight with cabinet (kg)			7738		9079		9193		9268			
Weight with cabinet (kg) (Except for antifreeze and oil)			7515		8811		8925		9000			
Tank capacity (L)			490		570							
<b>MOTOR</b>												
Frequency	50Hz											
Manufacturer and model	BAUDOUIIN 6M33G750/5		BAUDOUIIN 6M33G825/5		BAUDOUIIN 12M26G900/5		BAUDOUIIN 12M26G1000/5		BAUDOUIIN 12M26G1100/5		BAUDOUIIN 12M33G1250/5	
Engine power	645/865 (kWm/hp)		700/939 (kWm/hp)		761/1021 (kWm/hp)		870/1167 (kWm/hp)		941/1262 (kWm/hp)		1051/1410 (kWm/hp)	
Revolution per min.	1500r.p.m											
Total displacement	19,6lt				31,8lt				39,2lt			
Cylinders orientation	6 Cylinders Vertical In-line				6 Cylinders V type				12 Cylinders V type			
Bore x Stroke	150 x 185mm				150 x 150mm				150 x 185mm			
Compression ratio	15:1				15,7:1				15:1			
Governor type	Electronical											
Aspiration system	Turbocharged											
Injection	Direct											
Cooling	Water											
Electrical system	24VDC											
Lub-oil capacity	64lt				114lt				160lt			
Engine coolant capacity	159lt				154lt				303lt			
Cooling air flow	783,3m3/min				1430m3/min				2100m3/min			
Fuel	Diesel											
<b>FUEL CONSUMPTION</b>												
100% load	151,1lt/h		159,5lt/h		173,7lt/h		195,5lt/h		207,1lt/h		236,2lt/h	
75% load	111,2lt/h		114,8lt/h		133,1lt/h		146,5lt/h		155,3lt/h		175lt/h	
50% load	75,5lt/h		77,4lt/h		90,8lt/h		100,8lt/h		106,6lt/h		119,5lt/h	
<b>EXHAUST SYSTEM</b>												
Maximum exhaust temperature	750°C		730°C		750°C							
Maximum exhaust gas flow	11202m³/h		9786 m³/h		10506 m³/h		11670m³/h		14490m³/h		13506m³/h	
Maximum allowed back pressure	7,5kPa											
<b>ALTERNATOR</b>												
Brand	Tescom / Stamford											
Poles	4 Poles											
Frequency	50/60HZ											
Winding connections	Star											
Insulation	Class H											
Enclosure	IP23											
Power factor	0,8											
Altitude	1000m											
Exciter system	Self excitation											
Voltage regulator	AVR											
Steady state voltage regulation	± 1%											
Direction of rotation	Clockwise											
Cooling	Direct drive centrifugal blower fan											
(*) <b>TDJ750-1250BT</b> Baudouin Motor - Tescom Alternator / <b>TDJ750-1250BS</b> Baudouin Motor - Stamford Alternator												

# TECHNICAL SPECIFICATIONS



	TDJ110VT / TDJ110VS (*)		TDJ145VT / TDJ145VS (*)		TDJ167VT / TDJ167VS (*)		TDJ200VT / TDJ200VS (*)		TDJ225VT / TDJ225VS (*)		TDJ330VT (842) / TDJ330VS (842) (*)	
Standby (kVA/kW)	110	88	145	116	167	134	200	160	225	180	330	264
Prime (kVA/kW)	100	80	132	105	152	121	182	145	205	164	300	240
Open type size (LxWxH mm)	2350 x 1000 x 1300		2750 x 1100 x 1500				3000 x 1100 x 1500				3500 x 1200 x 1800	
With cabinet (LxWxH mm)	2350 x 1000 x 1550		2750 x 1100 x 1750				3000 x 1100 x 1750				3500 x 1200 x 2050	
Open type weight (kg)	1198		1347		1674		1861		2007		2789	
Open type weight (kg) (Except for antifreeze and oil)	1165,3		1321		1603,2		1605,5		1935,8		2738	
Weight with cabinet (kg)	1458		1677		2104		2351		2497		3434	
Weight with cabinet (kg) (Except for antifreeze and oil)	1425,3		1651		2060,2		2275,5		2425,8		3383	
Tank capacity (L)	170		250				280				360	
<b>MOTOR</b>												
Frequency	50Hz											
Manufacturer and model	VOLVO PENTA TAD531GE	VOLVO PENTA TAD532GE	VOLVO PENTA TAD731GE	VOLVO PENTA TAD732GE	VOLVO PENTA TAD733GE	VOLVO PENTA TAD842GE						
Engine power	98/133 (kWm/hp)		125/169 (kWm/hp)		148 (kWm/hp)		179/243 (kWm/hp)		195/265 (kWm/hp)		287/390 (kWm/hp)	
Revolution per min.	1500r.p.m											
Total displacement	4,76				7,15				7,7lt			
Cylinders orientation	4				6							
Bore x Stroke	108 x 130 mm										110 x 135 mm	
Compression ratio	18:1								18,1:1		17,5:1	
Governor type	Mechanical		Electronical		Mechanical		Electronical					
Aspiration system	Turbo CAC											
Injection	Direct											
Cooling	Water											
Electrical system	12VDC						24VDC					
Lub-oil capacity	13lt				20lt		34lt				27lt	
Engine coolant capacity	19,7lt		13lt		23,8lt		41,8lt		37,2lt		28lt	
Cooling air flow	90 m3/min		174 m3/min		150 m3/min		234 m3/min				228 m3/min	
Fuel	Diesel											
<b>FUEL CONSUMPTION</b>												
100% load	22,4lt/h		31,4lt/h		33,9lt/h		39,9lt/h		44,72lt/h		62,9lt/h	
75% load	16,7lt/h		23lt/h		25,5lt/h		29,9lt/h		33,2lt/h		49,2lt/h	
50% load	11,6lt/h		16lt/h		17,7lt/h		20,5lt/h		22,5lt/h		35,3lt/h	
<b>EXHAUST SYSTEM</b>												
Maximum exhaust temperature	557°C		532°C		540°C		542°C		530°C		495°C	
Maximum exhaust gas flow	1104m3/h		1392m3/h		1812m3/h		2106m3/h		2232m3/h		2820m3/h	
Maximum allowed back pressure	5kPa										10kPa	
<b>ALTERNATOR</b>												
Brand	Tescom / Stamford											
Poles	4 Poles											
Frequency	50/60HZ											
Winding connections	Star											
Insulation	Class H											
Enclosure	IP23											
Power factor	0,8											
Altitude	1000m											
Exciter system	Self excitation											
Voltage regulator	AVR											
Steady state voltage regulation	± 1											
Direction of rotation	Clockwise											
Cooling	Direct drive centrifugal blower fan											
(*) <b>TDJ110-330VT</b> Volvo Penta Motor - Tescom Alternator / <b>TDJ110-330VS</b> Volvo Penta Motor - Stamford Alternator												



# TECHNICAL SPECIFICATIONS



	TDJ330VT / TDJ330VS (*)		TDJ350VT / TDJ350VS (*)		TDJ385VT / TDJ385VS (*)		TDJ415VT / TDJ415VS (*)		TDJ450VT / TDJ450VS (*)	
Standby (kVA/kW)	330	264	350	280	385	308	415	332	450	360
Prime (kVA/kW)	300	240	318	254	350	280	377	302	409	327
Open type size (LxWxH mm)	3500 x 1200 x 1800		3700 x 1400 x 1800				3700 x 1600 x 1800			
With cabinet (LxWxH mm)	3500 x 1200 x 2050		3700 x 1400 x 2050				3700 x 1600 x 2050			
Open type weight (kg)	2789		2884		2890		2894		3094	
Open type weight (kg) (Except for antifreeze and oil)	2709		2804		2810		2814		3014	
Weight with cabinet (kg)	3434		3529		3535		3539		3739	
Weight with cabinet (kg) (Except for antifreeze and oil)	3354		3449		3455		3459		3659	
Tank capacity (L)	360		470							
<b>MOTOR</b>										
Frequency	50Hz									
Manufacturer and model	VOLVO PENTA TAD1341GE		VOLVO PENTA TAD1341GE		VOLVO PENTA TAD1342GE		VOLVO PENTA TAD1343GE		VOLVO PENTA TAD1344GE	
Engine power	298/405 (kWm/hp)		333/453 (kWm/hp)		356/484 (kWm/hp)		389 (kWm/hp)			
Revolution per min.	1500r.p.m									
Total displacement	12,78									
Cylinders orientation	6									
Bore x Stroke	131 x 158 mm									
Compression ratio	18,1:1									
Governor type	Electronical									
Aspiration system	Turbo CAC									
Injection	Direct									
Cooling	Water									
Electrical system	24 VDC									
Lub-oil capacity	36lt									
Engine coolant capacity	44lt									
Cooling air flow	330 m3/min		402 m3/min		27 m3/min		390 m3/min			
Fuel	Diesel									
<b>FUEL CONSUMPTION</b>										
100% load	61,7lt/h		68lt/h		73,4lt/h		80,78lt/h			
75% load	47,3lt/h		51,6lt/h		55lt/h		61,53lt/h			
50% load	33,7lt/h		35,9lt/h		38,2lt/h		41,6lt/h			
<b>EXHAUST SYSTEM</b>										
Maximum exhaust temperature	414°C		402°C		420°C		465°C			
Maximum exhaust gas flow	3120m3/h		3400m3/h		3600m3/h		4050m3/h			
Maximum allowed back pressure	10kPa									
<b>ALTERNATOR</b>										
Brand	Tescom / Stamford									
Poles	4 Poles									
Frequency	50/60HZ									
Winding connections	Star									
Insulation	Class H									
Enclosure	IP23									
Power factor	0,8									
Altitude	1000m									
Exciter system	Self excitation									
Voltage regulator	AVR									
Steady state voltage regulation	± 1%									
Direction of rotation	Clockwise									
Cooling	Direct drive centrifugal blower fan									
(*) <b>TDJ330-450VT</b> Volvo Penta Motor - Tescom Alternator / <b>TDJ330-450VS</b> Volvo Penta Motor - Stamford Alternator										

# TECHNICAL SPECIFICATIONS



	TDJ500VT / TDJ500VS (*)		TDJ550VT / TDJ550VS (*)		TDJ650VT / TDJ650VS (*)		TDJ715VT / TDJ715VS (*)		TDJ770VT / TDJ770VS (*)	
Standby (kVA/kW)	500	400	550	440	650	520	715	572	770	616
Prime (kVA/kW)	455	364	500	400	591	473	650	520	700	560
Open type size (LxWxH mm)	3700 x 1600 x 1800				4000 x 1800 x 1900					
With cabinet (LxWxH mm)	3700 x 1600 x 2050				4000 x 1800 x 2350					
Open type weight (kg)	3681		3609		3822		4352		4520	
Open type weight (kg) (Except for antifreeze and oil)	3601		3501		3714		4204		4372	
Weight with cabinet (kg)	4536		4516		4729		5259		5427	
Weight with cabinet (kg) (Except for antifreeze and oil)	4456		4408		4621		5111		5279	
Tank capacity (L)	470				490					
<b>MOTOR</b>										
Frequency	50Hz									
Manufacturer and model	VOLVO PENTA TAD1345GE		VOLVO PENTA TAD1641GE		VOLVO PENTA TAD1642GE		VOLVO PENTA TAD1644GE		VOLVO PENTA TAD1645GE	
Engine power	431/586 (kWm/hp)		473/643 (kWm/hp)		536/729 (kWm/hp)		609/828 (kWm/hp)		654/890 (kWm/hp)	
Revolution per min.	1500r.p.m									
Total displacement	12,78			16,12						
Cylinders orientation	6									
Bore x Stroke	131 x 158 mm				144 x 165 mm					
Compression ratio	18,1:1		16,5:1				16,8:1			
Governor type	Electronical									
Aspiration system	Turbo CAC									
Injection	Direct									
Cooling	Water									
Electrical system	24VDC									
Lub-oil capacity	36lt				48lt					
Engine coolant capacity	44lt		60lt				100lt			
Cooling air flow	402 m3/min		781 m3/min		774 m3/min		684 m3/min		41,2 m3/min	
Fuel	Diesel									
<b>FUEL CONSUMPTION</b>										
100% load	62,9lt/h		100,7lt/h		114,7lt/h		126lt/h		139,1lt/h	
75% load	49,2lt/h		75,5lt/h		84,1lt/h		94lt/h		108,3lt/h	
50% load	35,3lt/h		50,4lt/h		56,5lt/h		63lt/h		77,6lt/h	
<b>EXHAUST SYSTEM</b>										
Maximum exhaust temperature	570°C		445°C		482°C		480°C		501°C	
Maximum exhaust gas flow	3498m3/h		5520m3/h		5880m3/h		6000m3/h		6360m3/h	
Maximum allowed back pressure	10kPa									
<b>ALTERNATOR</b>										
Brand	Tescom / Stamford									
Poles	4 Poles									
Frequency	50/60HZ									
Winding connections	Star									
Insulation	Class H									
Enclosure	IP23									
Power factor	0,8									
Altitude	1000m									
Exciter system	Self excitation									
Voltage regulator	AVR									
Steady state voltage regulation	± 1%									
Direction of rotation	Clockwise									
Cooling	Direct drive centrifugal blower fan									
(*) <b>TDJ500-770VT</b> Volvo Penta Motor - Tescom Alternator / <b>TDJ500-770VS</b> Volvo Penta Motor - Stamford Alternator										



