

Motor/Engine:	MAN E 2842 LE322
Leistung/Power:	420 kW @ 1500 min ⁻¹
Zyl/Cylinders:	V12
Venturi:	GM 200/100 GMA 82
Gas:	Natural
Lambda:	1,6
Gas:	Biogas 50% CH ₄
Lambda:	1,47

Pos.	Qty.	Description	Item	HZN
1		Speed/ Load Control PANDAROS 2080		
1		Controller PANDAROS	DC 2080.6-19	624-00-064-00
1		Actuator Throttle Valve	StG 2080.21-SV	514-00-009-00
1		Cable Harness Actuator	10m	620-81-256-6005
1		Cable Harness Pickup	10m	620-81-248-6005
1		Lever arm	RH 2080-01	514-80-001-00
1		Pickup 5/8" - 18 UNF-2A	IA 12-76	600-00-006-02
2.1		GMA AFR Positioner		
1		Gap gas mixer annular	GMA 82	494-00-002-00
1		Mounting plate Rp 2" or for Biogas	MP 200	463-19-025-00
1		Mounting plate	MP 200-Rp3"	464-19-002-00
1		Cable harness (Input 4-20mA, 0-5V, PWM, Feedback, Ref, Stop, Error) 10 m		490-81-012-00
or				
2.2		GM E-LES SMC Positioner		
		For Natural Gas use:		
1		Gas mixer Housing	GM 200-0100	464-80-000-00
1		Venturi Insert Natural Gas*	VE-200-1001-36-K12-4,4	464-83-105-44
1		Mounting plate Rp 2"	MP 200	463-19-025-00
1		Electronically controlled MAS E-LES 50.3 SMC		472-00-021-00
1		Cable harness (Input 4-20mA, 0-5V, PWM, Feedback, Ref, Stop, Error) 10 m		490-81-012-00
		For Biogas use:		
1		Gas mixer Housing	GM 200-0100	464-80-000-00
1		Venturi Insert Biogas* 50%CH ₄	VE-200-1001-36-K12-6,7	464-83-105-67
1		Mounting plate Rp 3"	MP 200	464-19-002-00
1		Electronically controlled MAS E-LES 80.3 SMC		472-00-022-00
1		Cable harness (Input 4-20mA, 0-5V, PWM, Feedback, Ref, Stop, Error) 10 m		490-81-012-00
*note: For the correct dimension of the venturi insert the gas data must be known. Please fill out the order information and send this to the head office. http://www.heinzmann.de/en/engine-and-turbine-management/system-solutions/gas-engine-management				
2.3		AFR-Control KRONOS 20 (Optional); only in combination with E-LES SMC		
1		Controller Closed Loop	KRONOS 20-01 CL	620-00-118-01
1		Combined Pressure/ Temp.sensor		600-00-082-00
1		Cable Harness Sensor		600-81-051-00
1		Pick up isolator *)	PUI-01	300-00-175-00
or				
1		Pickup 5/8" - 18 UNF-2A *)	IA 12-76	600-00-006-02
1		Cable Harness Pickup *)	10 m	620-81-047-10
*) If PANDAROS DC XX.6-19 is used, alternatively, engine speed can be read via HZM-CAN. In this case, please order 620-00-118-01 with software Kronos20_ac002XX_CL_Power_HZMCAN_AC_DC_GC.dwn				

Pos.	Qty.	Description	Item	HZN
3		Ignition Control PHLOX II 12 Cylinder		
	1	Controller PHLOX	PHLOX II IC-12	680-00-010-01
	1	Cable Harness Input or	without CAN	680-81-002-17
	1	Cable Harness Input	with CAN	680-81-002-18
	1	Pickup camshaft	HIA-M12-76	600-00-140-00
	1	Ignition Rail 12 cyl. with cable harness, mounting set and ignition coils grey; left		Z00-21-058-00
	1	Ignition Rail 12 cyl. with cable harness, mounting set and ignition coils grey; right		Z00-21-059-00
	12	Ignition lead w ring connector for M6		Z00-19-038-00
4		Knock control system ARIADNE 12 Cylinder		
	1	Knock controller	KC 01-IP 00	620-00-137-12
	12	Knocksensor	KS 1-01	010-80-022-00
	12	Connecting Cable Knock Sensor		600-81-082-00
	1	Pickup camshaft *)	HIA-M12-76	600-00-140-00
	1	Cable for Pickup HIA S3 / M12 *)	10 m	620-81-177-00

*note: Pickup may be shared with the ignition system by using a splitter. Pickup or splitter not necessary in combination with Heinzmann ignition system PHLOX.