



HYGEN® BACK UP POWER DIESEL GENERATOR

FEATURES

All Purpose Pumps HYGEN® Back up power system automatically switches from mains power to back up power in the event of a power failure with its "Demand-Run" feature.

HYGEN® DIESEL POWER GENERATOR

- › Heavy duty European synchronous alternator with Class H windings and electronic voltage regulation
- › Alternator output for 2 x pumps with delayed standby pump starting
- › Lombardi heavy duty air or water cooled engine
- › Engine vibration isolators
- › Built in exhaust silencer manifold
- › Diesel fuel tank
- › Mounted on common baseplate
- › On board instrument panel with:
 - › Voltmeter
 - › Ammeter
 - › Hour run meter or Frequency meter
 - › Starting key
 - › Circuit breakers
 - › Emergency stop button
- › Indicator lights for
 - › Fuel level
 - › Oil pressure
 - › Battery voltage
 - › Breakage of Dynamo belt
 - › High-low engine RPM
 - › Emergency button activated
 - › Status signal : protection enabled
 - › Glow plugs timing
- › Steel Canopy with:
 - › Thermostatically controlled engine cooling fan
 - › Acoustic protection
 - › Hinged access cover

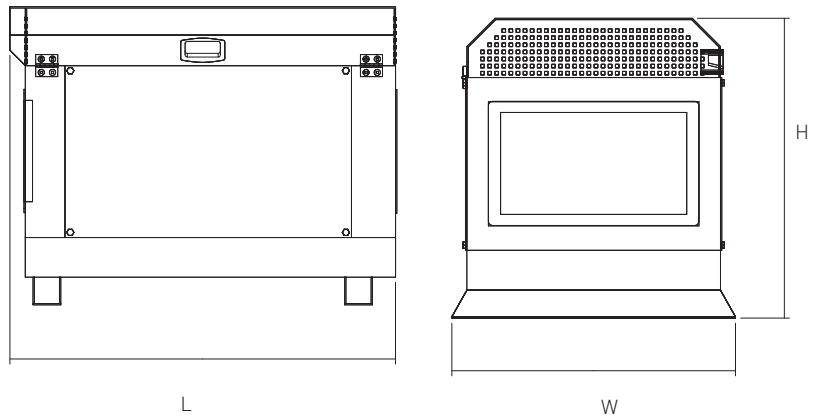


25 YEARS INDUSTRY EXPERIENCE

HYGEN® POWER CHANGEOVER CONTROLLER

- › Powder coated steel lockable IP56 weather resistant enclosure
- › Removable gland plate
- › Selector switch – MAINS/OFF/GENERATOR
- › Intelligent HYGEN® Demand-Run automatic power supply change over activated on
 - › Pump station water level
 - › Power failure
- › Mains power supply contactor
- › Generator power supply contactor
- › Float switch for "Demand-Run"

DIMENSIONS



RANGE

MODEL	PRODUCT CODE	MAXIMUM PUMP LOAD	VOLTAGE
HYGEN.D075.1	825010	2 x 0.75kW	240v
HYGEN.D075.3	825011	2 x 0.75kW	415v
HYGEN.D15.1	825012	2 x 1.5kW	240v
HYGEN.D22.3	825013	2 x 2.2kW	415v
HYGEN.D55.3	825014	2 x 5.5kW	415v
HYGEN .D75.3	TBA	2 x 7.5kW	415v

NOTES

1. HYGEN®.D55.3 & HYGEN®.D75.3 require soft starters on Pumps
2. Generator is designed and engineered to start the pumps one after the other
3. This unit must be installed by a qualified electrician





SPECIFICATIONS

	D075.1	D075.3	D15.1	D22.3	D55.3	D75.3
ENGINE	Lombardini					
ENGINE POWER	5.5kW		9.7kW	8.8kW	16.3KW	18.7kW
FUEL	Diesel					
NO. CYLINDERS	1		2		4	
INJECTION	Direct					
SPEED GOVERNOR	Mechanical					
INTAKE	Natural					
COOLING	Air					Water
FUEL TANK CAPACTIY	20 l		50 l		70 l	
FUEL USAGE @ 100% PRP (l/hr)	1.6		2.5		4.0	
NOISE LEVEL (7m)	70 dBA					
ALTERNATOR	Synchronous					
INSULATION CLASS	H					
FREQUENCY	50 Hz					
PROTECTION	IP23				IP21	
LENGTH (L)	940				1200	1750
WIDTH (W)	650				700	700
HEIGHT (H)	840				1050	1020
WEIGHT	190	193	235		400	470
EXHAUST DIAMETER	32				42	48

NOTES

1. Performance follow the ISO 8528-1 standard: temperature 25°C, altitude 100 m A.S.L, humidity 30%, atmospheric pressure 100 kPa (1 bar), power factor 1.0 lag (D075.1 only,) power factor lag 0.8, load balanced – non distortional
2. Rating definitions follow the ISO 8528, ISO 3046: Prime Power PRP is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year
3. No earth leakage protection is fitted to the generator system as it is a dedicated submersible pump power supply back up

EXHAUST REQUIREMENTS

The HYGEN® Backup Power Supply System is required to be installed and ventilated in accordance with AS1668.2. When natural ventilation is not possible, a mechanical exhaust must be installed.

EXHAUST SIZING SELECTION TABLE:

