



Application:

Supply of irrigation machines with water for the irrigation of agricultural land for stationary operation.

Function:

The flexibly mounted diesel engine drives the multi-stage high-pressure centrifugal pump directly via a flexible coupling.

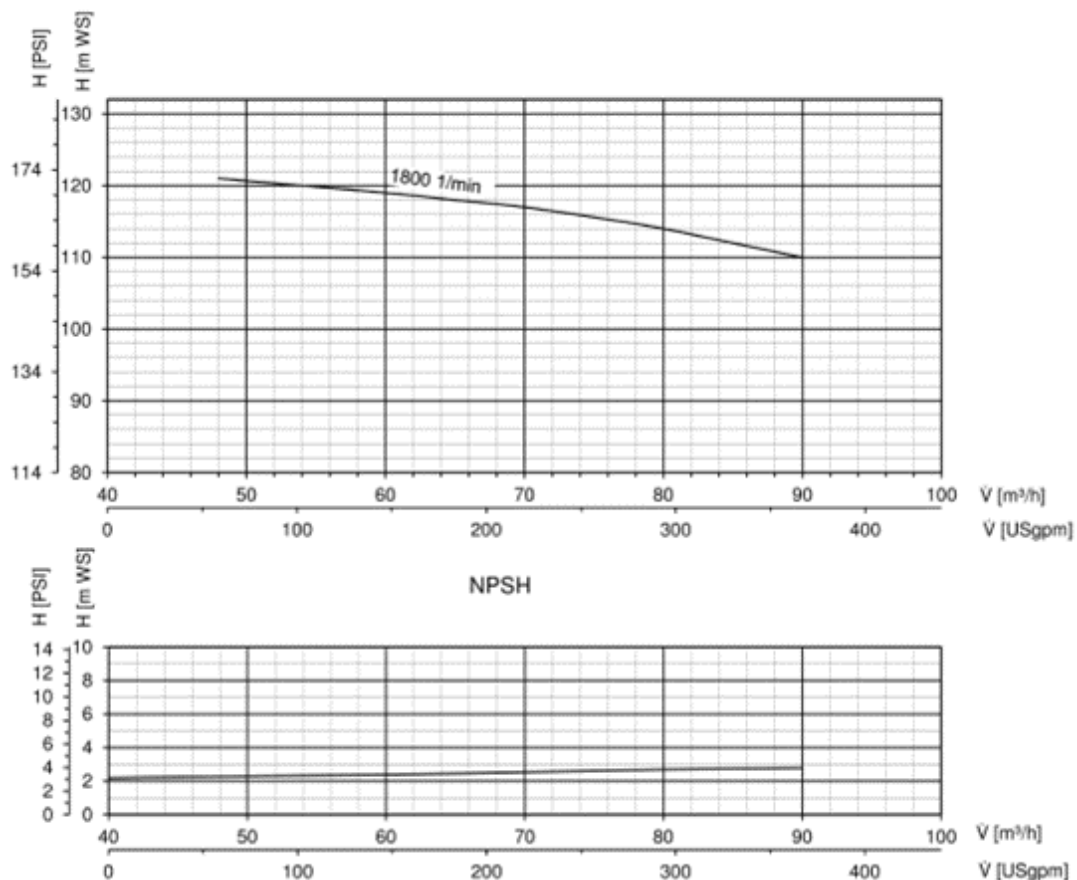
	Parameters	Size	Unit	Value
Aggregate	Volume flow	V_{max}	m^3/h	90
	Funding level	H_{max}	m WS	122
	Connection	DNS DND	mm	108 V 98 V

	Parameters	Size	Unit	Value
Motor	Manufacturer			IVECO
	Type			N45MSA
	ICFN performance	P	kW	56
	RPM	n	1/min	1800
	EU emission standard			II

	Parameters	Size	Unit	Value
Shipping	Length x width x height	l x w x h	mm	3622 x 1425 x 1702
	Weight	m	kg	1619 ¹⁾

¹⁾ Ready for operation without fuel

Performance Curve



Water pump:
Reference: $p_u = 0$ bar negative pressure

Technical Details

- Non-self-priming diesel pump unit
- with 3-stage pump
- Tank volume 500 litre capacity
- with sump and drain plug
- Sound-insulating bonnet with lockable doors
- with oil drip tray
- Vacuum gauge
- Semi-automatic pump deaeration
- Variable-direction discharge nozzle with 89 MT
- Battery 12 V/100 Ah
- Drawbar and wheel set are available for transport the stationary installation site
- SAE flange between pump and motor
- Transport device for hoses
- Suction connection with gooseneck 108 VT
- Pressure connection
- Exhaust emission level diesel engine: II
- Sound power level: LWA= 98 dB
- Sound pressure level: LPA_{7m} = 72 dB(A), LPA_{10m} : 69dB(A)

Components



Semi-automatic suction device

- Fast suction even at lower groundwater levels
- Variable-direction discharge nozzle with 89 MT



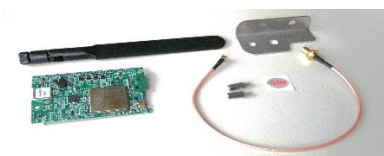
Four-cylinder turbo engine

- EGR-free combustion
- Technology used millions of times in agricultural, construction, on-road, marine and power generation applications
- outstanding performance in terms of power, torque, fuel efficiency and reliability



HÜDIG switch box:

- Stepless adjustment of the switch-off pressure on the display
- Vacuum and overpressure shut-off
- Runtime programming
- Operating hours display
- Daily operating hours and
- Remaining time display
- Speed display
- Tank level indicator on request
- Service hours display
- Oil pressure control
- Monitoring electronics



Option: GSM control

- Remote start/stop possible
- Changing the operating pressure
- Changing the runtime for time-controlled irrigation



Optional:

- Drawbar and wheel set are available for transport to the stationary installation site

Technical data

HC 910/503/44 Irrigation Diesel Pump