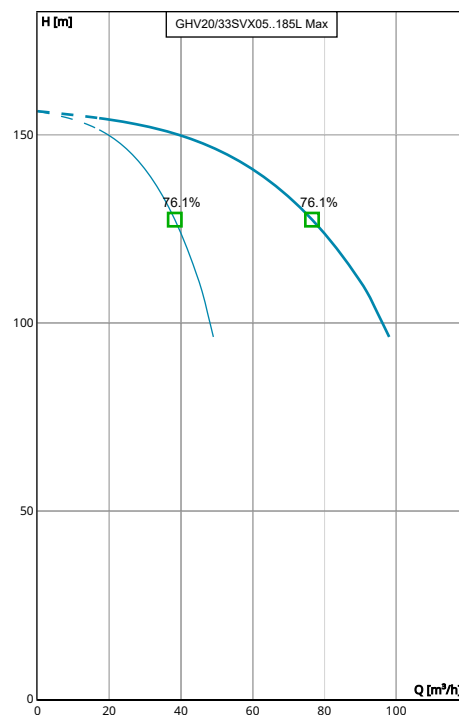


GHV20/33SVX05G185L/4 | Configuration Summary



The GHV hydrovar® X series booster sets are fully automatic variable speed solutions for water supply, water pressure increase and water transfer in condominiums, office buildings, hotels, public buildings, industries and other applications.



Performance according to ISO 9906:2012

PUMP

Installation	Pump Size
Non-return valve in Delivery side	33SV05
Hydrovar Name	
hydrovar X+	

MATERIALS

Construction
Standard version

SEAL

Type of Seal	Rotating Face
Mechanical Seals	Silicon Carbide
Name	Stationary Face
Q1BEGG	Carbon
	Elastomers
	EPDM
	Springs
	AISI 316
	Metal Components
	AISI 316

STANDARD OPTIONS

Include Certified Pump	High Pressure Protection Switch
No	No
Include Optical Sensor	Delivery side turned upwards by 90° using elbow
No	No
Include Protection Against Dry Running	Control Panel With Phase
No	Missing
Suction Side	No
Standard suction	Pressure Transmitters and

MOTOR

Power
18.5 kW
Phase (~)
3
Voltage
380-480 V
Control Panel Power Supply
3 PH x 400 V

FLANGE

Flange
[G] = Round Flanges (AISI 304/Cast Iron)

VFD

Phase	Supply Voltage
3	400 V

Control Panel with Cloud Connect Device	HYDROVAR® Without Control Panel-Bracket
No	No
IT Neutral	Wall Mounted Control Panel
No	No

GHV20/33SVX05G185L/4 | Product Details

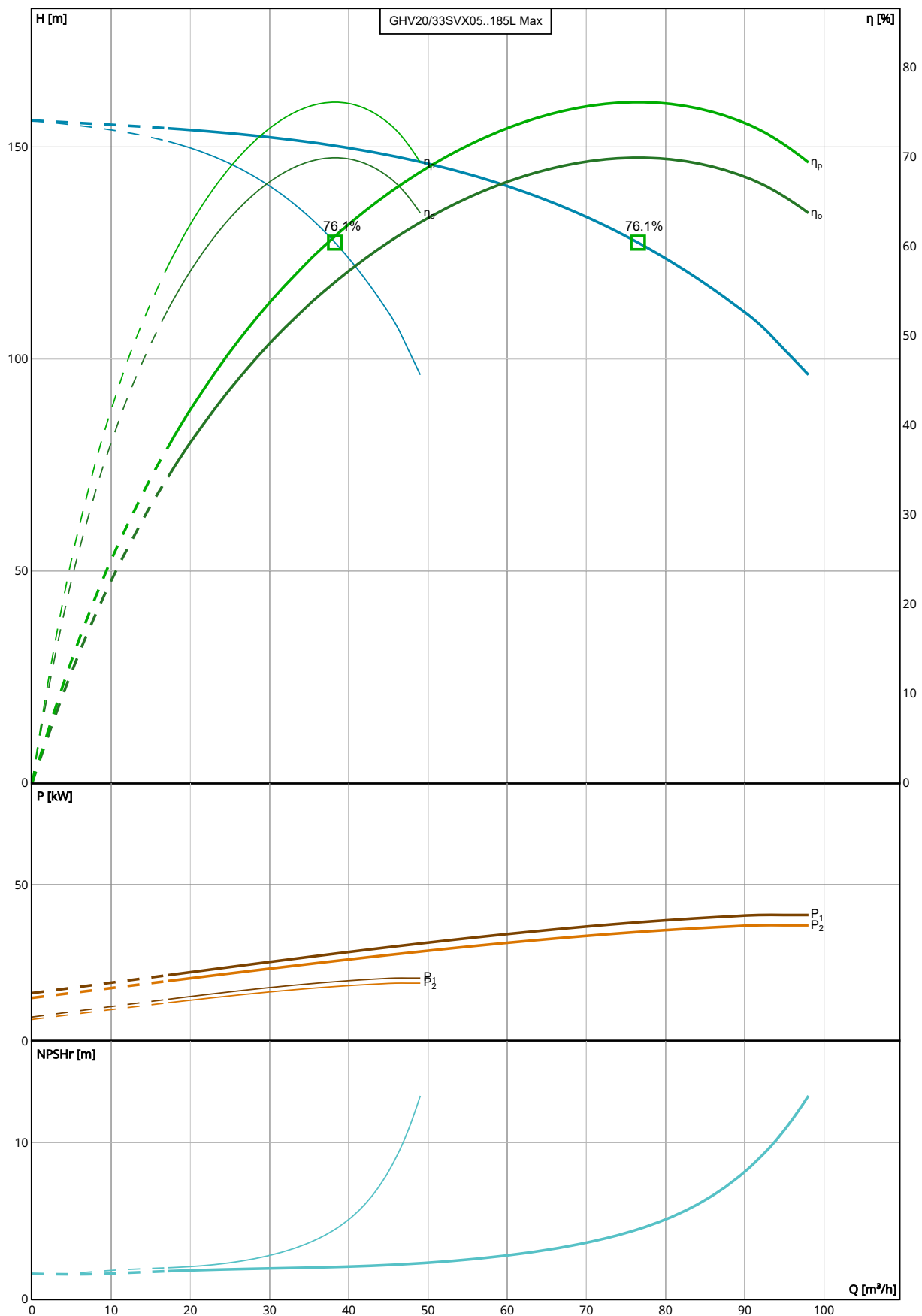
Construction Materials

Base (-) Painted steel	Manifolds (-) AISI 304	Pressure gauge (-) Water connection: Brass	Screws, nuts, washers (-) AISI 316
Bracket (-) Painted steel	Non-return valves, flanged (-) Body: cast iron Shutter: bronze / epoxy	Cover ABS Fluid: -	Sliding, blind, weld flange (-) AISI 304
Caps/plugs (-) AISI 316	On-off valves, flanged (-) Body: cast iron Disc: epoxy	Pressure switches (-) Galvanized steel / AISI 304	Vacuum pressure gauge (-) Water connection: Brass
Fittings (-) AISI 316	On-off valves, threaded (-) Nickel plated brass	Pressure transmitters (-) AISI 304	Cover ABS Fluid: glycol
		Pump flange (-) G	

Motor

Motor Name EXM160B5SV/4.185D	Rated power 18.5 kW	Enclosure IP 55	ICL F
Phase 3	IE Class IE5	Frame Size 160	Standard IEC
Voltage 380-480 V	Motor Vendor Xylem		
Speed 3600.0 rpm			
Rated Current 33.4 A			

GHV20/33SVX05G185L/4 | Hydraulic Data & Performance Curve



Performance according to ISO 9906:2012

Selection

Series	System Type
GHV hydrovar X e-SV	Multi Pump
Name	Operating Pumps
GHV20/33SVX05..185L	2
Stages	Standby Pumps
5	No Standby Pump
Frequency	
50 Hz	
Suction Type	
Pressurized	
Station Losses	
344.74 mbar	
Acceptance Grade	
Manufacturer's Standard	

Fluid and Operating Conditions

Fluid Type	Density
Water	1,000 kg/m ³
Fluid Temperature	Dynamic Viscosity
4 °C	0.002 Pa·s
Specific Gravity	Fluid Vapor Pressure
1	8.14 mbar
	Atmospheric Pressure
	1,013.53 mbar
	Elevation
	0 m
	Ambient Temperature
	20 °C
	NPSH Available
	10.27 m
	Submergence
	0 m

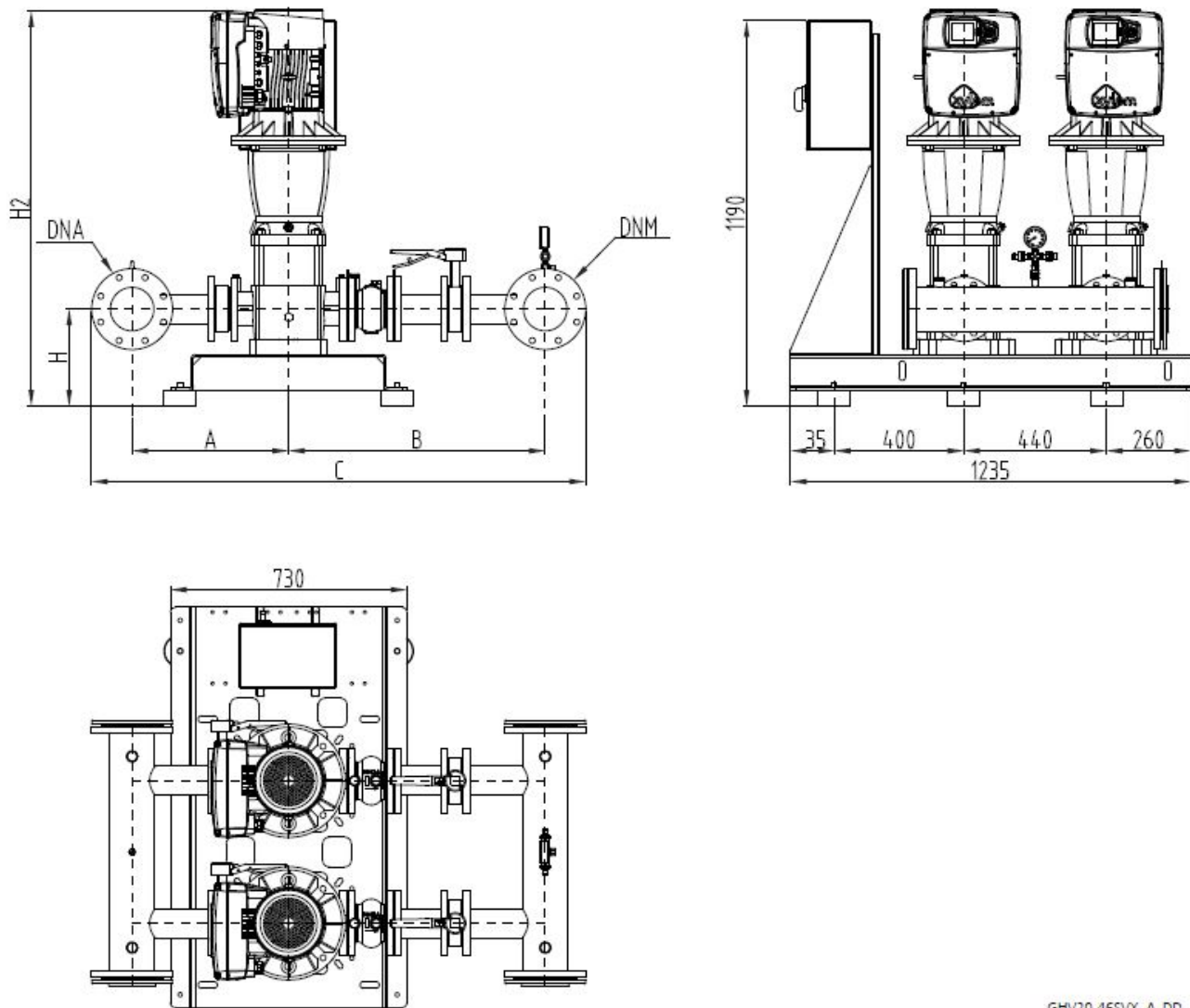
Design Curve - Single Pump

Rated Speed	BEP (1x)
3,400 RPM	76.09 %
Min Flow (1x)	BEP Flow (1x)
17.18 m ³ /h	38.26 m ³ /h
Max Flow (1x)	BEP Head (1x)
49.02 m ³ /h	127.43 m
H@QMin (1x)	Max Operating Pressure (1x)
151.3 m	15,299.13 mbar
H@QMax (1x)	Shut Off Head (1x)
96.27 m	156.23 m
	Max P2 (1x)
	18.51 kW

Design Curve - System

Rated Speed	BEP
3,400 RPM	76.09 %
Min Flow	BEP Flow
17.18 m ³ /h	76.51 m ³ /h
Max Flow	BEP Head
98.04 m ³ /h	127.43 m
H@QMin	Max Operating Pressure
154.39 m	15,299.13 mbar
H@QMax	Shut Off Head
96.27 m	156.23 m
	Max P2
	37.03 kW

GHV20/33SVX05G185L/4 | Dimensional Data & Drawing



GHV20-46SVX_A_DD

Drawing is preliminary and is subject to change.

Dimensions

A	H2
448 mm	1484 mm
B	DNA (Rp/R/DN)
732 mm	DN100
C	DNM (Rp/R/DN)
1400 mm	DN100
H	
265 mm	