

TECHNICAL SUBMITTAL SHEET

Submittal Ref No: M011

Project No: Olwen House, 8-20 Loman Street London

Project Reference: C10422

Date: 13/11/2018

[illegible]

Status A: Accepted

Status B: Accepted subject to comments/Amendments

Status C: Rejected/Resubmit

Product Proposal

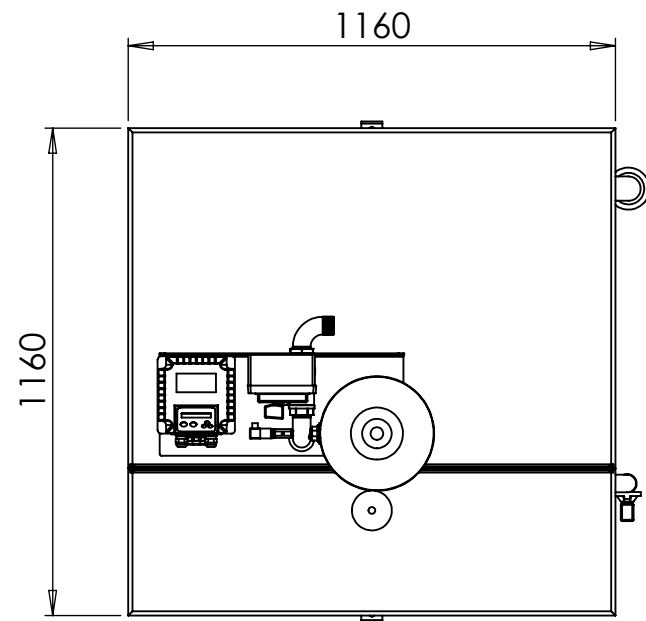
Item Code/Model		Description						
1	WX1-5060-1250		Dutypoint Systems ScubaTANK (CWB & Tank)					
Duty Head	3 bar	Flow Rate	1.5 l/sec	Rated Power	1.1 kW (Per Pump)	FLC (A) Total	7.4	
Voltage	230/1/50	Suction Size	1" BSP	Discharge Size	1 1/4" BSP	C V Head	68 m	
Flow Per Pump	1.5 l/sec	% of Total Flow	100.0%	Configuration	Single Pump			
Dutypoint Systems WRAS Approved ScubaTANK - Combined storage tank and variable speed single pump booster set package featuring ultra-quiet constant-pressure operation. Free-standing unit comprising an insulated tank with approximately 1,250 litres actual storage, stainless steel multistage submersible pump, inverter drive and isolation panel with low level protection and common fault VFC. Unit also includes isolation and non-return valve and stainless steel pressure vessel and a 1.0 Inch high flow solenoid inlet valve.								

*Please contact us if an improved delivery is required.

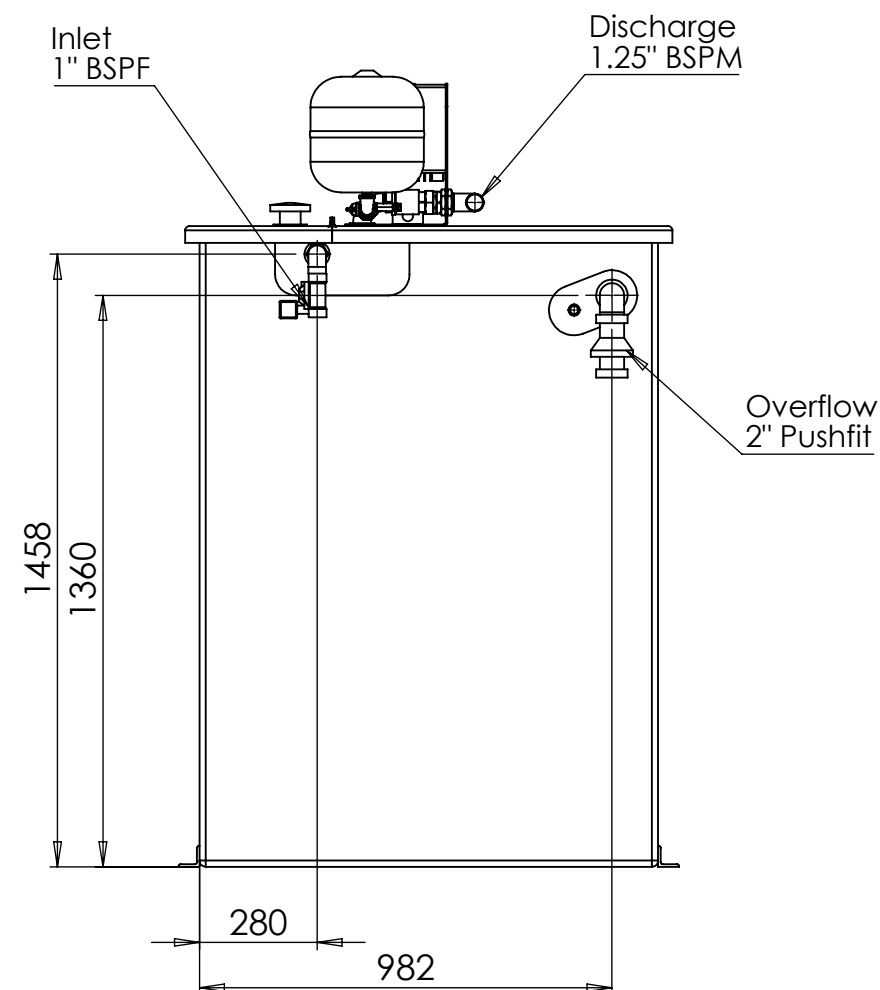
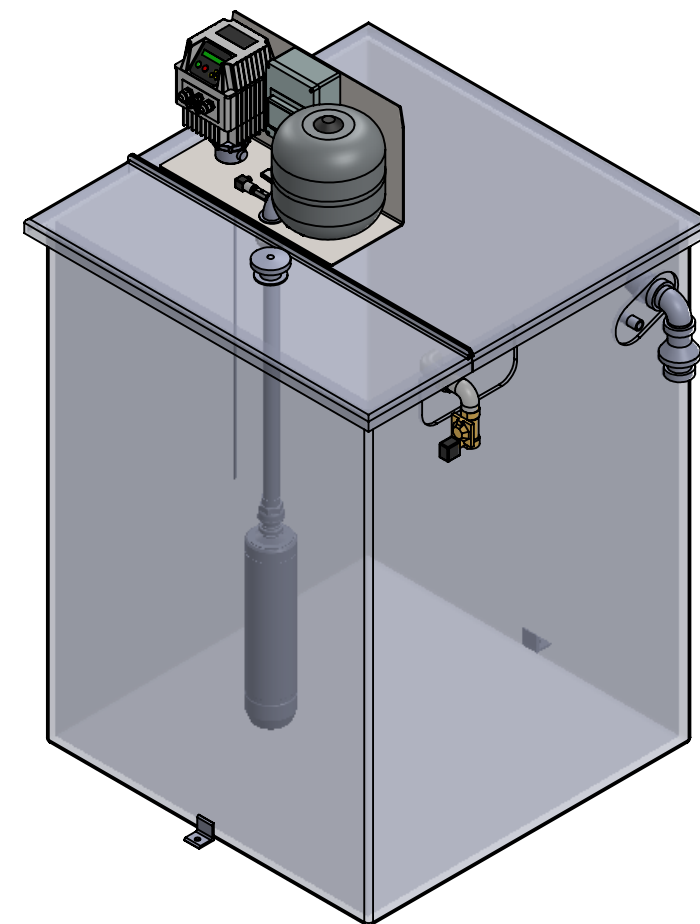
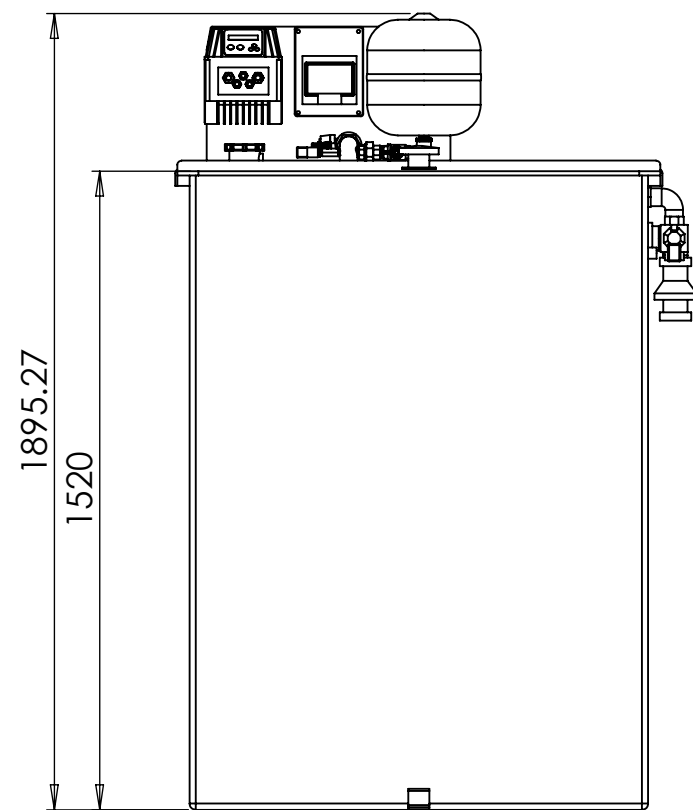
Prices are valid for 30 days unless otherwise stated. All prices are subject to VAT at the current rate unless specified otherwise.

It is assumed that in all pump applications the suction is flooded, and that sufficient NPSH is available, unless otherwise stated.

It is the responsibility of the customer to ensure any equipment specified is suitable for the duty for which it has been selected.



Minimum Headroom 150mm Required



Customer Approval Signature: _____

Date _____

NOTES

THERE MAY BE SLIGHT VARIATIONS IN MANIFOLD CENTRES DUE TO MANUFACTURING AND ASSEMBLY TOLERANCES

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETRES

ANGLES $\pm X.X^\circ$
2PL $\pm X.XX$ 3 PL $\pm X.XXX$

Dutypoint
Systems

Shepherd Road
Gloucester
GL2 5EL
T: 01452 300 110

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Scale: 1:18 Date: 05/01/2016 Drawn: AGL

Title:
[WX1-xxxx-1250](#)

Drawing Number:

Internal Ref:

Client:

Rev	Date	Approver	Change Comment
01	23 Jun 2016	AGL	Released
A	23 Jun 2016	AGL	Initial release

ScubaTank

Dutypoint 
Systems

Pump and tank system

Combined variable speed
pump and storage system





- No need to install separate booster set and tank - single 'plug and play' unit
- Straightforward three-connection installation minimises time required on site
- Maximise water storage in an exceptionally compact footprint, with pumps mounted inside the tank
- Smaller models designed to fit through a standard door - ideal for retrofit installations
- Range of sizes from 175 - 2,250 litres
- Submersed pumps ensure extremely quiet operation
- Vessels, inverters and control panels all included in the package - no hidden additional costs
- Individual pump isolation for easy maintenance
- Single and twin pump models available

Combined variable speed pump and storage system

Designed to maximise water storage within a minimal footprint, the GRP insulated ScubaTANK features WRAS approved submersible pumps, mounted inside the tank, resulting in extremely quiet operation. Variable speed pumps ensure a low level of energy consumption. Smaller models are designed to fit through a standard door, the ScubaTANK is ideal for retrofit applications. The range comprises of the single-pump WX1 and the twin-pump WX2 models, available in duty/assist and duty/standby configurations. Tanks are available with actual capacity from 175 to 2,250 litres.



Standard Technical Features

- GRP insulated water storage tank
- Variable speed stainless steel submersible pumps
- High flow inlet solenoid valve
- Low water level pump protection device
- Digital system status display
- Fused isolation switch

Options

- Remote alarm panel
- Common alarm volt free contact
- Fixed speed versions on request
- Weatherproof housing

Performance

Flow Range (WX1 single pump)	0.6 - 3.9 litres/sec
Flow Range (WX2 twin pump)	1.2-6.2 litres/sec
Pressure Range	2.5-7.0 Bar
Max System Pressure	10 Bar
Max System Temperature	23°C

Specification

Inlet size	1" BSP
Outlet size	1¼" BSP
Power supply	230/1/50
Control type	VASCO Variable Speed Drives

Materials

Tank	Insulated GRP
Pump(s)	AISI 304 Stainless Steel

Visit dutypoint.com
for full product listings,
specifications and more



Duty

Units displayed in litres per second

2.0 Bar		2.5 Bar		3.0 Bar		3.5 Bar		4.0 Bar		4.5 Bar		5.0 Bar		6.0 Bar	
ref	flow rate	ref	flow rate	ref	flow rate	ref	flow rate	ref	flow rate	ref	flow rate	ref	flow rate	ref	flow rate
1	1.1	2	1.2	2	1.1	2	1.0	2	0.9	2	0.8	2	0.6	3	0.8
4	2.0	5	2.0	5	2.0	3	1.2	3	1.1	3	1.0	3	0.9	6	1.5
8	3.9	7	3.4	7	2.9	5	1.8	5	1.6	5	1.5	5	1.1	8	1.6
		8	3.8	8	3.6	7	2.6	6	2.0	6	1.9	6	1.8		
						8	3.4	8	3.1	8	2.9	8	2.5		

Ref	ACTUAL TANK CAPACITY OPTIONS								
	175 Litres	375 Litres	490 Litres	650 Litres	800 Litres	1050 Litres	1250 Litres	1650 Litres	2250 Litres
1	WX1-3040-175	WX1-3040-375	WX1-3040-490	WX1-3040-650	WX1-3040-800	WX1-3040-1050	WX1-3040-1250	WX1-3040-1650	WX1-3040-2250
2	WX1-3060-175	WX1-3060-375	WX1-3060-490	WX1-3060-650	WX1-3060-800	WX1-3060-1050	WX1-3060-1250	WX1-3060-1650	WX1-3060-2250
3	WX1-3080-175	WX1-3080-375	WX1-3080-490	WX1-3080-650	WX1-3080-800	WX1-3080-1050	WX1-3080-1250	WX1-3080-1650	WX1-3080-2250
4	WX1-5040-175	WX1-5040-375	WX1-5040-490	WX1-5040-650	WX1-5040-800	WX1-5040-1050	WX1-5040-1250	WX1-5040-1650	WX1-5040-2250
5	WX1-5060-175	WX1-5060-375	WX1-5060-490	WX1-5060-650	WX1-5060-800	WX1-5060-1050	WX1-5060-1250	WX1-5060-1650	WX1-5060-2250
6	WX1-5080-175	WX1-5080-375	WX1-5080-490	WX1-5080-650	WX1-5080-800	WX1-5080-1050	WX1-5080-1250	WX1-5080-1650	WX1-5080-2250
7	WX1-9040-175	WX1-9040-375	WX1-9040-490	WX1-9040-650	WX1-9040-800	WX1-9040-1050	WX1-9040-1250	WX1-9040-1650	WX1-9040-2250
8	WX1-9060-175	WX1-9060-375	WX1-9060-490	WX1-9060-650	WX1-9060-800	WX1-9060-1050	WX1-9060-1250	WX1-9060-1650	WX1-9060-2250

NOTES



Units displayed in litres per second

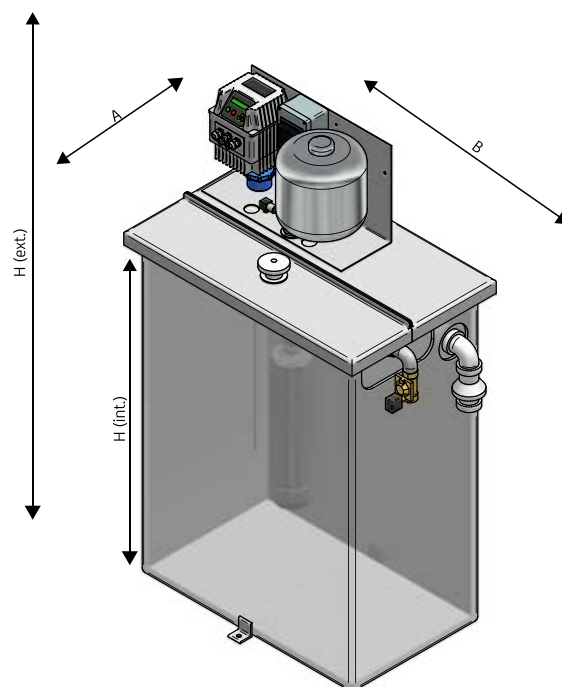
2.0 Bar		2.5 Bar		3.0 Bar		3.5 Bar		4.0 Bar		4.5 Bar		5.0 Bar		6.0 Bar	
ref	flow rate	ref	flow rate	ref	flow rate	ref	flow rate	ref	flow rate	ref	flow rate	ref	flow rate	ref	flow rate
1	1.1	2	1.2	2	1.1	2	1.0	2	0.9	2	0.8	2	0.6	3	0.8
4	2.0	5	2.0	5	2.0	3	1.2	3	1.1	3	1.0	3	0.9	6	1.5
8	3.9	7	3.4	7	2.9	5	1.8	5	1.6	5	1.5	5	1.1	8	1.6
		8	3.8	8	3.6	7	2.6	6	2.0	6	1.9	6	1.8		
						8	3.4	8	3.1	8	2.9	8	2.5		

Ref	ACTUAL TANK CAPACITY OPTIONS							
	375 Litres	490 litres	650 Litres	800 Litres	1050 Litres	1250 Litres	1650 Litres	2250 Litres
1	WX2-3040-375	WX2-3040-490	WX2-3040-650	WX2-3040-800	WX2-3040-1050	WX2-3040-1250	WX2-3040-1650	WX2-3040-2250
2	WX2-3060-375	WX2-3060-490	WX2-3060-650	WX2-3060-800	WX2-3060-1050	WX2-3060-1250	WX2-3060-1650	WX2-3060-2250
3	WX2-3080-375	WX2-3080-490	WX2-3080-650	WX2-3080-800	WX2-3080-1050	WX2-3080-1250	WX2-3080-1650	WX2-3080-2250
4	WX2-5040-375	WX2-5040-490	WX2-5040-650	WX2-5040-800	WX2-5040-1050	WX2-5040-1250	WX2-5040-1650	WX2-5040-2250
5	WX2-5060-375	WX2-5060-490	WX2-5060-650	WX2-5060-800	WX2-5060-1050	WX2-5060-1250	WX2-5060-1650	WX2-5060-2250
6	WX2-5080-375	WX2-5080-490	WX2-5080-650	WX2-5080-800	WX2-5080-1050	WX2-5080-1250	WX2-5080-1650	WX2-5080-2250
7	WX2-9040-375	WX2-9040-490	WX2-9040-650	WX2-9040-800	WX2-9040-1050	WX2-9040-1250	WX2-9040-1650	WX2-9040-2250
8	WX2-9060-375	WX2-9060-490	WX2-9060-650	WX2-9060-800	WX2-9060-1050	WX2-9060-1250	WX2-9060-1650	WX2-9060-2250

NOTES

WX1-3000

Model No.	Motor Power (kW)	Power Supply	Full Load Current (A)	Dimensions (mm)				Actual Tank Capacity (litres)	Weight (kg)
				A	B	H (int.)	H (ext.)		
ScubaTANK WX1-3000 Single Pump Series									
WX1-3040-175	0.55	230/1/50	4.1	600	600	1000	1461	175	52
WX1-3040-375	0.55	230/1/50	4.1	600	950	1200	1666	375	71
WX1-3040-490	0.55	230/1/50	4.1	750	950	1200	1666	490	78
WX1-3040-650	0.55	230/1/50	4.1	750	1200	1200	1666	650	102
WX1-3040-800	0.55	230/1/50	4.1	1160	1160	1000	1466	800	116
WX1-3040-1050	0.55	230/1/50	4.1	800	1500	1500	1966	1050	121
WX1-3040-1250	0.55	230/1/50	4.1	1160	1160	1500	1966	1250	145
WX1-3040-1650	0.55	230/1/50	4.1	1160	1500	1500	1966	1650	162
WX1-3040-2250	0.55	230/1/50	4.1	1160	2000	1500	1966	2250	169
WX1-3060-175	0.75	230/1/50	5.2	600	600	1000	1461	175	54.5
WX1-3060-375	0.75	230/1/50	5.2	600	950	1200	1666	375	73.5
WX1-3060-490	0.75	230/1/50	5.2	750	950	1200	1666	490	80.5
WX1-3060-650	0.75	230/1/50	5.2	750	1200	1200	1666	650	104.5
WX1-3060-800	0.75	230/1/50	5.2	1160	1160	1000	1466	800	118.5
WX1-3060-1050	0.75	230/1/50	5.2	800	1500	1500	1966	1050	123.5
WX1-3060-1250	0.75	230/1/50	5.2	1160	1160	1500	1966	1250	147.5
WX1-3060-1650	0.75	230/1/50	5.2	1160	1500	1500	1966	1650	164.5
WX1-3060-2250	0.75	230/1/50	5.2	1160	2000	1500	1966	2250	171.5
WX1-3080-175	1.1	230/1/50	7.4	600	600	1000	1461	175	56.5
WX1-3080-375	1.1	230/1/50	7.4	600	950	1200	1666	375	75.5
WX1-3080-490	1.1	230/1/50	7.4	750	950	1200	1666	490	82.5
WX1-3080-650	1.1	230/1/50	7.4	750	1200	1200	1666	650	106.5
WX1-3080-800	1.1	230/1/50	7.4	1160	1160	1000	1466	800	120.5
WX1-3080-1050	1.1	230/1/50	7.4	800	1500	1500	1966	1050	125.5
WX1-3080-1250	1.1	230/1/50	7.4	1160	1160	1500	1966	1250	149.5
WX1-3080-1650	1.1	230/1/50	7.4	1160	1500	1500	1966	1650	166.5
WX1-3080-2250	1.1	230/1/50	7.4	1160	2000	1500	1966	2250	173.5



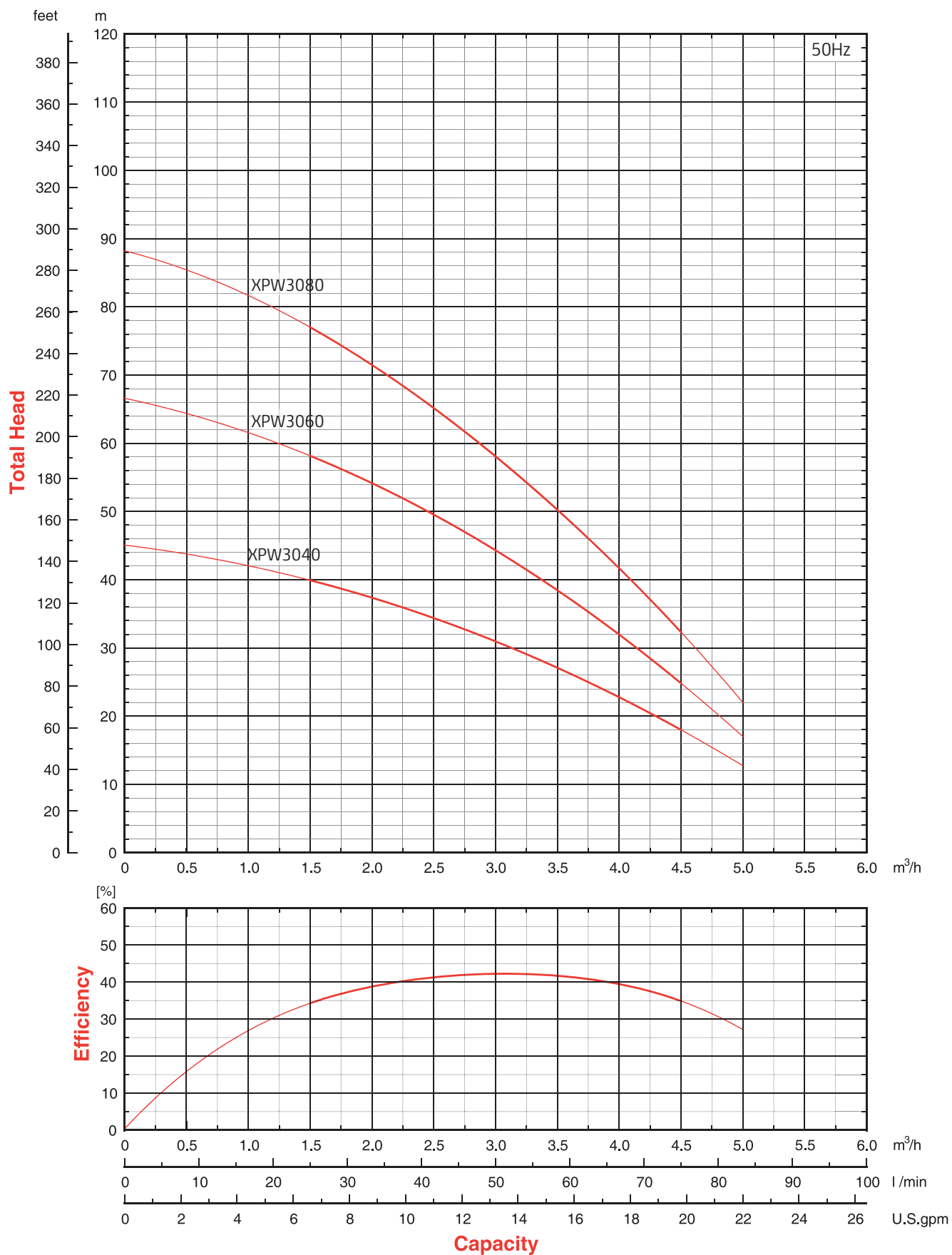
WX1-5000/9000

Model No.	Motor Power (kW)	Power Supply	Full Load Current (A)	Dimensions (mm)				Actual Tank Capacity (litres)	Weight (kg)
				A	B	H (int.)	H (ext.)		
ScubaTANK WX1-5000 Single Pump Series									
WX1-5040-175	0.75	230/1/50	5	600	600	1000	1461	175	53.5
WX1-5040-375	0.75	230/1/50	5	600	950	1200	1666	375	72.5
WX1-5040-490	0.75	230/1/50	5	750	950	1200	1666	490	79.5
WX1-5040-650	0.75	230/1/50	5	750	1200	1200	1666	650	103.5
WX1-5040-800	0.75	230/1/50	5	1160	1160	1000	1466	800	117.5
WX1-5040-1050	0.75	230/1/50	5	800	1500	1500	1966	1050	122.5
WX1-5040-1250	0.75	230/1/50	5	1160	1160	1500	1966	1250	146.5
WX1-5040-1650	0.75	230/1/50	5	1160	1500	1500	1966	1650	163.5
WX1-5040-2250	0.75	230/1/50	5	1160	2000	1500	1966	2250	170.5
WX1-5060-175	1.1	230/1/50	7.4	600	600	1000	1461	175	55.5
WX1-5060-375	1.1	230/1/50	7.4	600	950	1200	1666	375	74.5
WX1-5060-490	1.1	230/1/50	7.4	750	950	1200	1666	490	81.5
WX1-5060-650	1.1	230/1/50	7.4	750	1200	1200	1666	650	105.5
WX1-5060-800	1.1	230/1/50	7.4	1160	1160	1000	1466	800	119.5
WX1-5060-1050	1.1	230/1/50	7.4	800	1500	1500	1966	1050	124.5
WX1-5060-1250	1.1	230/1/50	7.4	1160	1160	1500	1966	1250	148.5
WX1-5060-1650	1.1	230/1/50	7.4	1160	1500	1500	1966	1650	165.5
WX1-5060-2250	1.1	230/1/50	7.4	1160	2000	1500	1966	2250	172.5
WX1-5080-175	1.5	230/1/50	10.5	600	600	1000	1461	175	59
WX1-5080-375	1.5	230/1/50	10.5	600	950	1200	1666	375	78
WX1-5080-490	1.5	230/1/50	10.5	750	950	1200	1666	490	85
WX1-5080-650	1.5	230/1/50	10.5	750	1200	1200	1666	650	109
WX1-5080-800	1.5	230/1/50	10.5	1160	1160	1000	1466	800	123
WX1-5080-1050	1.5	230/1/50	10.5	800	1500	1500	1966	1050	128
WX1-5080-1250	1.5	230/1/50	10.5	1160	1160	1500	1966	1250	152
WX1-5080-1650	1.5	230/1/50	10.5	1160	1500	1500	1966	1650	169
WX1-5080-2250	1.5	230/1/50	10.5	1160	2000	1500	1966	2250	176
ScubaTANK WX1-9000 Single Pump Series									
WX1-9040-650	1.5	230/1/50	10.5	750	1200	1200	1666	650	107.5
WX1-9040-800	1.5	230/1/50	10.5	1160	1160	1000	1466	800	121.5
WX1-9040-1050	1.5	230/1/50	10.5	800	1500	1500	1966	1050	126.5
WX1-9040-1250	1.5	230/1/50	10.5	1160	1160	1500	1966	1250	150.5
WX1-9040-1650	1.5	230/1/50	10.5	1160	1500	1500	1966	1650	167.5
WX1-9040-2250	1.5	230/1/50	10.5	1160	2000	1500	1966	2250	174.5
WX1-9060-650	2.2	230/1/50	11.9	750	1200	1200	1666	650	110.5
WX1-9060-800	2.2	230/1/50	11.9	1160	1160	1000	1466	800	124.5
WX1-9060-1050	2.2	230/1/50	11.9	800	1500	1500	1966	1050	129.5
WX1-9060-1250	2.2	230/1/50	11.9	1160	1160	1500	1966	1250	153.5
WX1-9060-1650	2.2	230/1/50	11.9	1160	1500	1500	1966	1650	170.5

XPW3000 Series

~2900 rpm

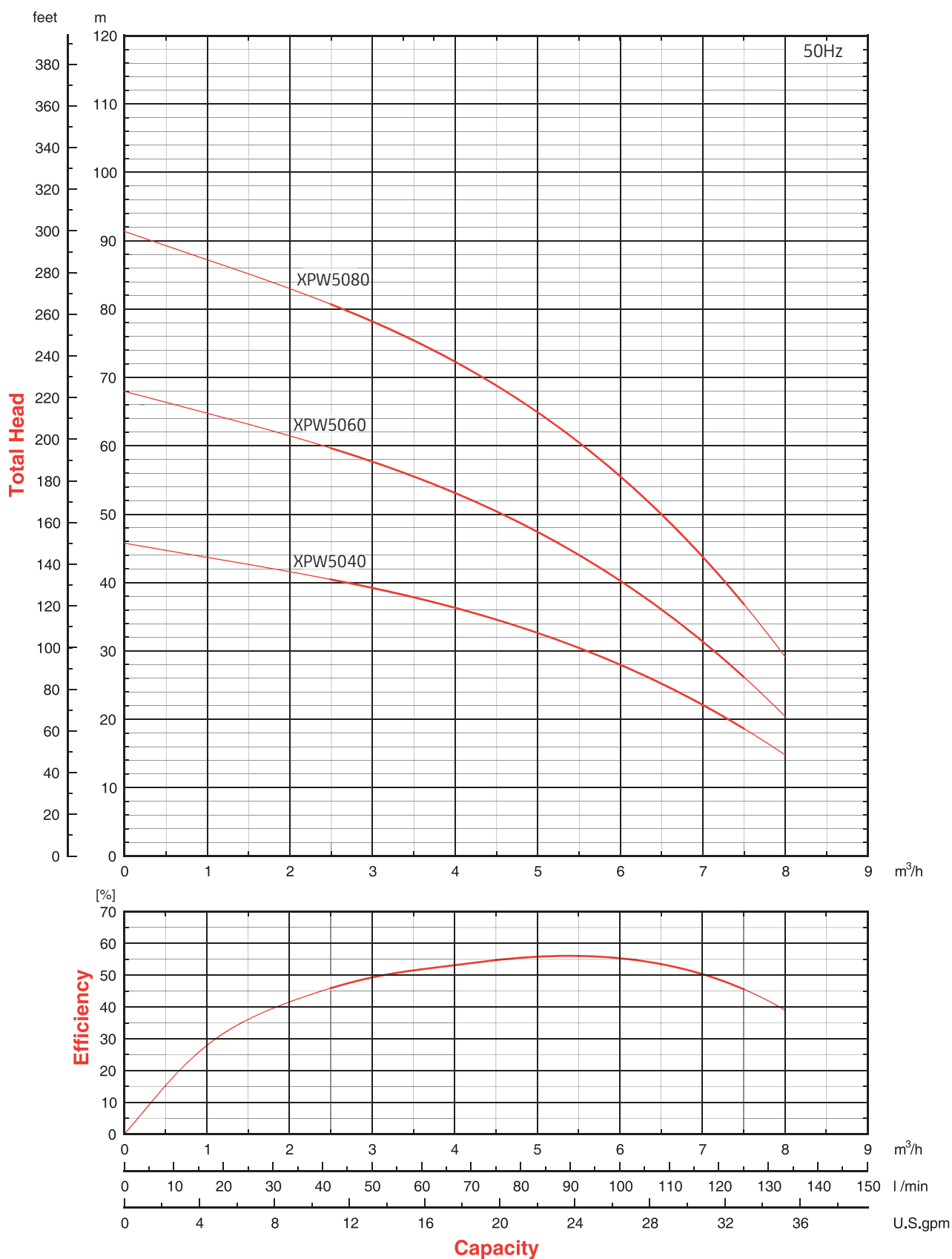
ISO 9906 - Annex A



XPW5000 Series

~2900 rpm

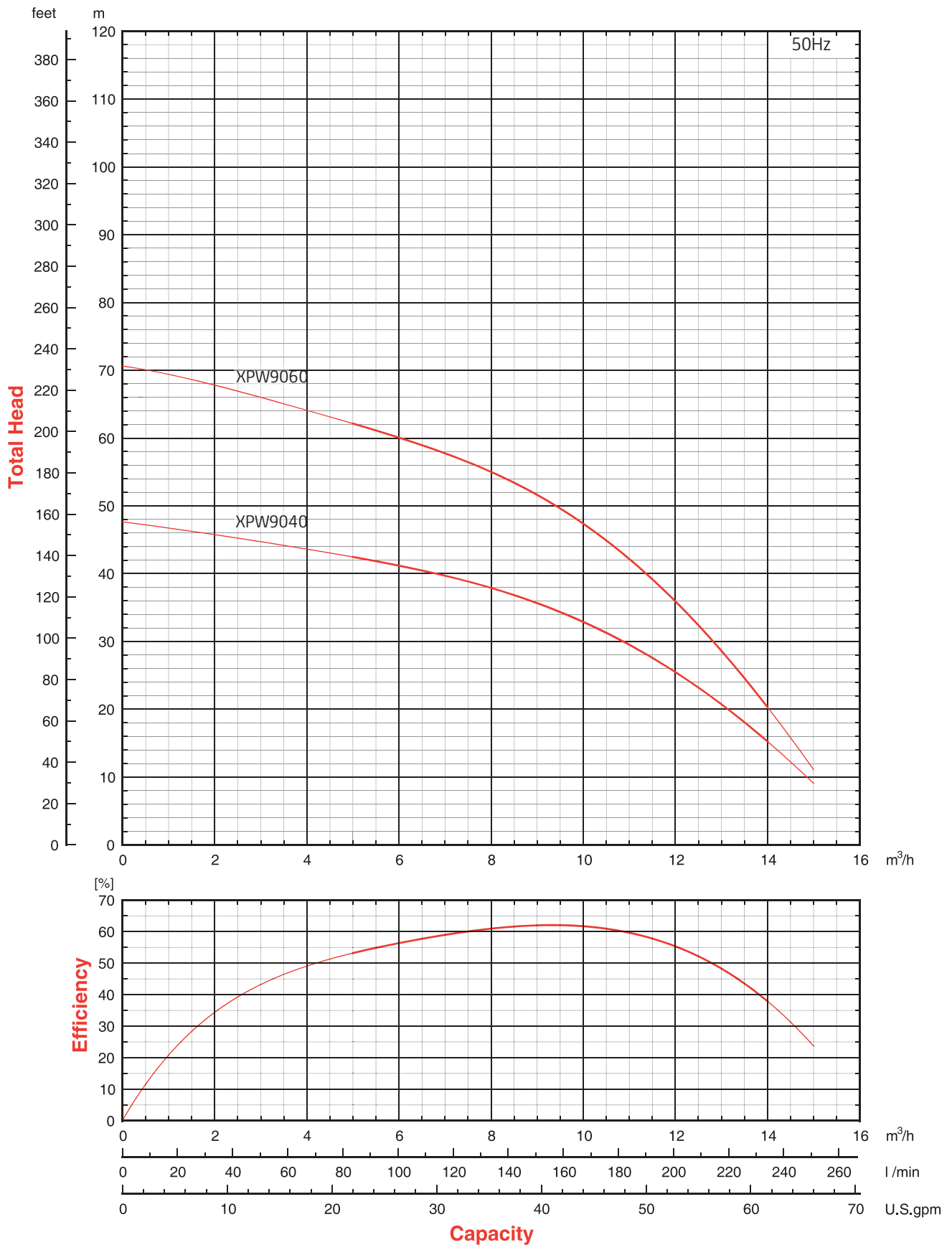
ISO 9906 - Annex A



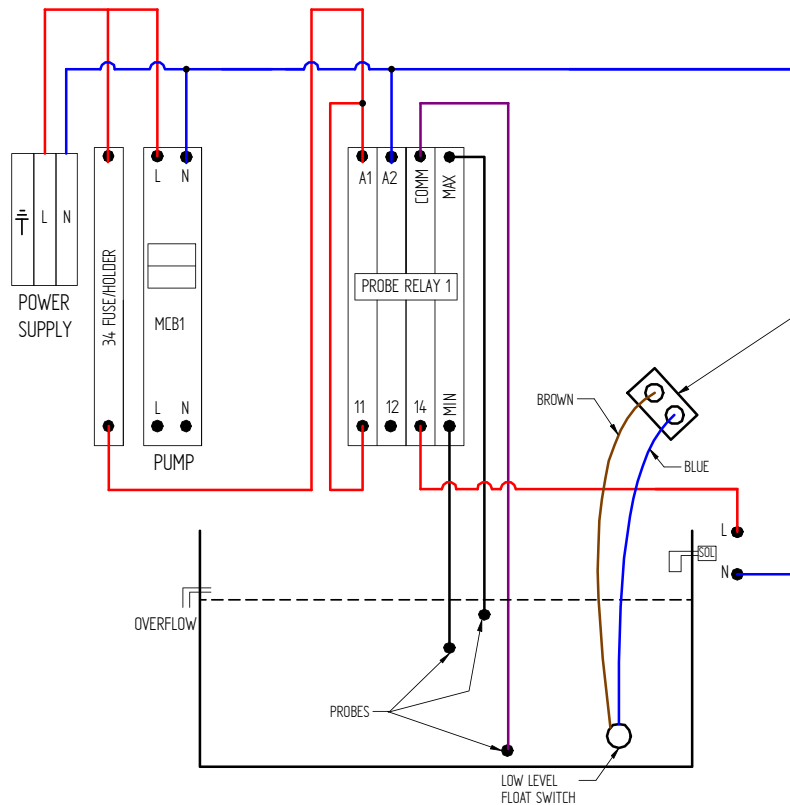
XPW9000 Series

~2900 rpm

ISO 9906 - Annex A



WX1 Control Panel



OPTIONAL EXTRAS

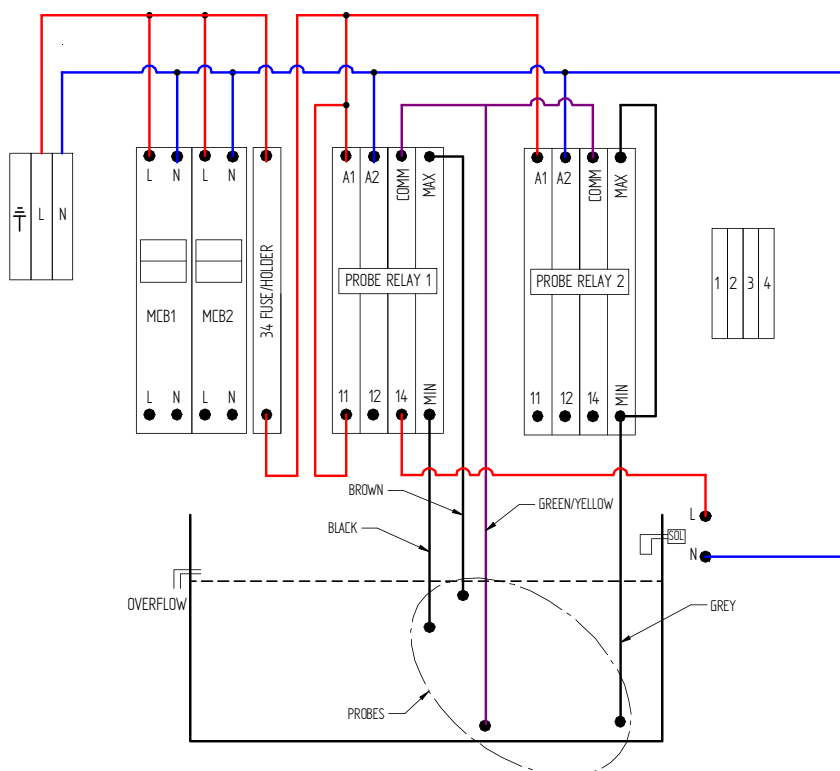
VRC – COMMON FAULT
TERMINAL IN A PRESSURE SYSTEM
MOUNTED ON THE DISCHARGE

EXTERNAL – ON/OFF
TERMINAL IN THE INVERTER VIA
LOW WATER

SOLENOID CONTROL

PROBE RELAYS SET UP AS :-
MODE – A
SENSITIVITY – 0.7
TIME – 1

WX2 Control Panel



LOW LEVEL – P1/P2

[PR2] 11 – OV – BLACK
[PR2] 12 – IN3 – GREEN

1 & 2 EXTERNAL ON/OFF P1/P2

1 – BLACK – OV
2 – BLUE – IN1
3 & 4 FAULT VFC P1/P2
3 – COMM 2 – BLACK
4 – No 2 – RED

RS485 – P1/P2

BLACK – BLACK
WHITE – WHITE
GREEN/YELLOW – GREEN/YELLOW

SOLENOID CONTROL

PROBE RELAY 1 SET UP AS :-
MODE – A
SENSITIVITY – 0.7
TIME – 1

LOW LEVEL CONTROL

PROBE RELAY 2 SET UP AS:-
MODE – D
SENSITIVITY – 0.7
TIME – 1



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