Prüfinstitut für Abwassertechnik GmbH

TREATMENT PERFORMANCE RESULTS

Initial type test: **ATB Umwelttechnologien GmbH (now ATB WATER GmbH)**
Distributed by **CMD Environmental**
Südstr. 2, 32457 Porta Westfalica, Germany
EN 12566-3
Results corresponding to EN 12566-3 and S.R. 66
PIA-SR66-1709-1101.02, shared itt
Aquamax
Sequence batch system from ATB (initial type test) in combination with PPR concrete tanks

Nominal organic daily load	0.39 kg/d		
Nominal hydraulic daily load	1.20 m³/d		
Treatment efficiency (nominal sequences)		Efficiency	Effluent
	COD	93.3 %	53 mg/l
	BOD_5	96.7 %	11 mg/l
	NH_4-N	65.6 %	12 mg/l
	SS	93.0 %	24 mg/l
Number of desludging	Not more than once		
Electrical consumption	1.2 kWh/d		

Performance tested by:

PIA – Prüfinstitut für Abwassertechnik GmbH
(PIA GmbH)
Hergenrather Weg 30
52074 Aachen, Germany

This document replaces neither the declaration of performance nor the CE marking.

Notified Body No.: 1739

Certified according to ISO 9001:2008

DAkkS Deutsche Akkreditierungsstelle D-PL-17712-01-00

Prüfinstitut für Abwassertechnik GmbH
geprüft - tested - testé

Martina Wermter October 2018

Prüfinstitut für Abwassertechnik GmbH

TREATMENT PERFORMANCE RESULTS

Initial type test performed by **PPR Carlow Concrete Tanks**
Distributed by **CMD Environmental**
Drumberry, Bunclody, Co. Wexford, Ireland
EN 12566-3 Annex A and C
Results corresponding to EN 12566-3 and S.R. 66
PIA-SR66-1709-1101.02, shared itt
PPR Concrete Tanks
PPR Concrete Tanks in combination with
ATB treatment kit Aquamax (sequence batch system)

Material	Concrete
Watertightness	Pass
Structural behaviour (calculation)	Pass (also wet conditions)
Durability	Pass

Performance tested by:

PIA – Prüfinstitut für Abwassertechnik GmbH
(PIA GmbH)
Hergenrather Weg 30
52074 Aachen, Germany

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Notified Body No.: 1739

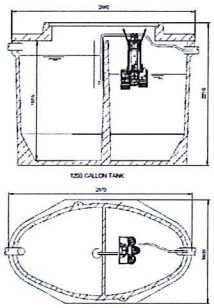
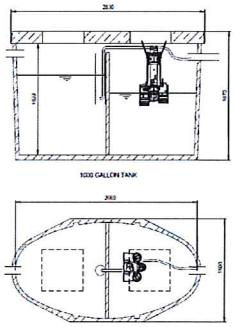
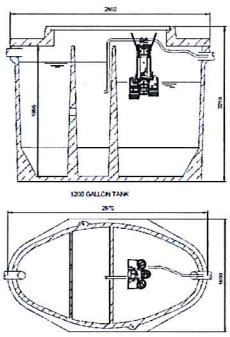
Certified according to ISO 9001:2008

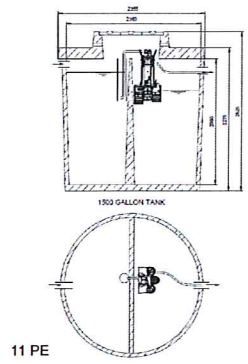
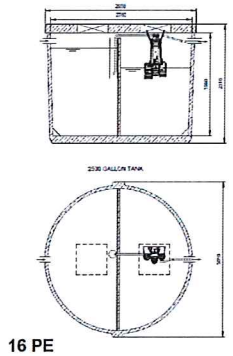
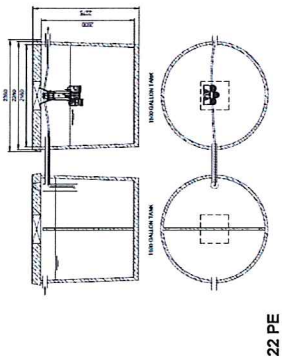
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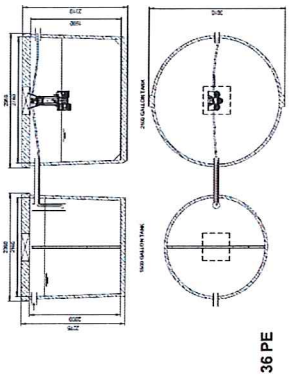
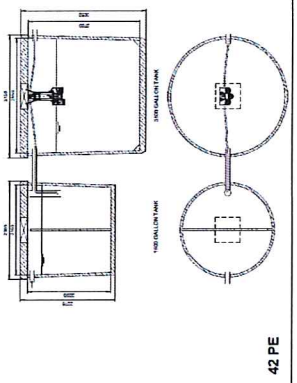
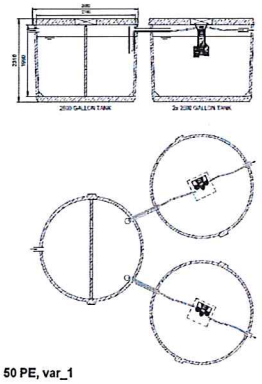
Prüfinstitut für Abwassertechnik GmbH
Geprüft - tested - testé

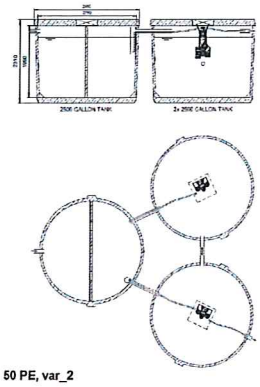
Daniel Verschitz October 2018

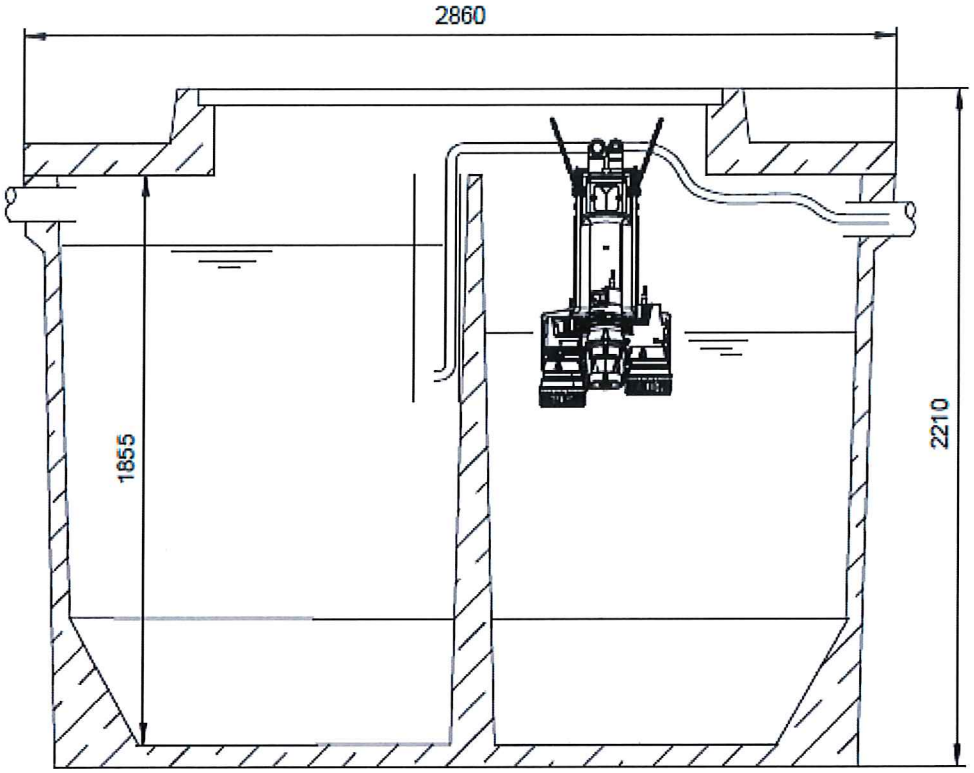
Aquamax range shared ITT and its referring test reports:

Population equivalent (PE)	Drawing of model of the range	Watertightness (EN 12566-3 Annex A)	Treatment Efficiency (EN 12566-3 Annex B)	Structural Behaviour (EN 12566-3 Annex C)	Durability
Initial Type Test (ITT) 8	not relevant	not relevant	Pass PIA2017-287B21	not relevant	not relevant
Compared tank 8	 08 PE	Pass PIA2012-WD-1203-1017 PIA2013-WD-1203-1017	Pass Shared ITT conformity check according to S.R. 66:2015	Pass For wet ground conditions also, installation depth 1.25 m from inlet invert	PIA2016-DH-1601-1003.01
5	 05 PE	Pass PIA2012-WD-1203-1017 PIA2013-WD-1203-1017	Pass Range conformity according to S.R. 66:2015	Pass For wet ground conditions also, installation depth 1.25 m from inlet invert	PIA2016-DH-1601-1003.01
7	 08 PE	Pass PIA2012-WD-1203-1017 PIA2013-WD-1203-1017	Pass Range conformity according to S.R. 66:2015	Pass For wet ground conditions also, installation depth 1.25 m from inlet invert	PIA2016-DH-1601-1003.01

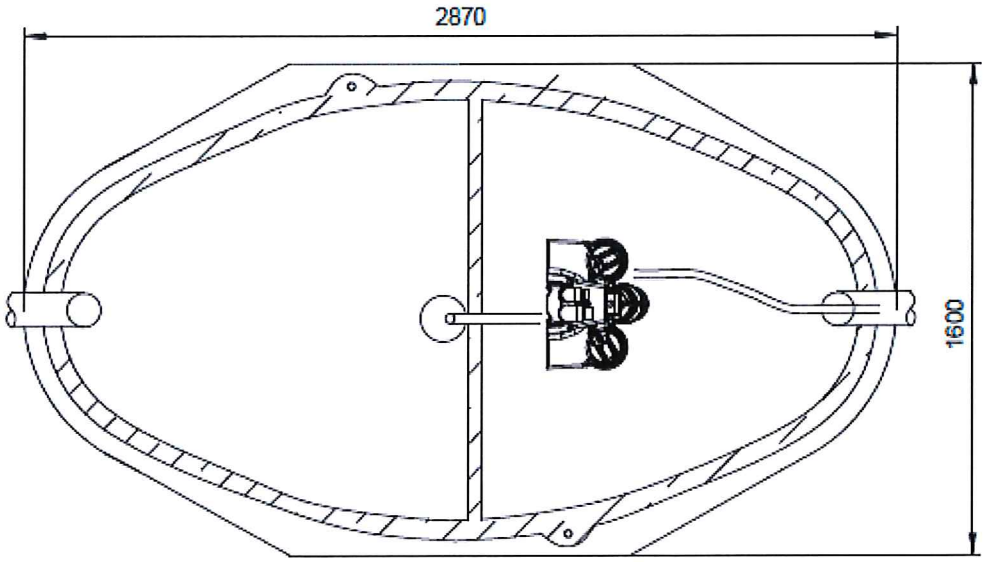
Population equivalent (PE)	Drawing of model of the range	Watertightness (EN 12566-3 Annex A)	Treatment Efficiency (EN 12566-3 Annex B)	Structural Behaviour (EN 12566-3 Annex C)	Durability
11		PIA2012-WD-1203-1017 PIA2013-WD-1203-1017	Pass Range conformity according to S.R. 66:2015	Pass For wet ground conditions also, installation depth 1.25 m from inlet invert	PIA2016-DH-1601-1003.01
16		PIA2012-WD-1203-1017 PIA2013-WD-1203-1017	Pass Range conformity according to S.R. 66:2015	Pass For wet ground conditions also, installation depth 1.25 m from inlet invert	PIA2016-DH-1601-1003.01
22		PIA2012-WD-1203-1017 PIA2013-WD-1203-1017	Pass Range conformity according to S.R. 66:2015	Pass PIA2009-ST-AT0710-1012 For wet ground conditions also, installation depth 1.25 m from inlet invert	PIA2016-DH-1601-1003.01

Population equivalent (PE)	Drawing of model of the range	Watertightness (EN 12566-3 Annex A)	Treatment Efficiency (EN 12566-3 Annex B)	Structural Behaviour (EN 12566-3 Annex C)	Durability
36	 36 PE	PIA2012-WD-1203-1017 PIA2013-WD-1203-1017	Pass Range conformity according to S.R. 66:2015	Pass PIA2009-ST-AT0710-1012 For wet ground conditions also, installation depth 1.25 m from inlet invert	PIA2016-DH-1601-1003.01
42	 42 PE	PIA2012-WD-1203-1017 PIA2013-WD-1203-1017	Pass Range conformity according to S.R. 66:2015	Pass PIA2009-ST-AT0710-1012 For wet ground conditions also, installation depth 1.25 m from inlet invert	PIA2016-DH-1601-1003.01
50	 50 PE, var_1	PIA2012-WD-1203-1017 PIA2013-WD-1203-1017	Pass Range conformity according to S.R. 66:2015	Pass PIA2009-ST-AT0710-1012 For wet ground conditions also, installation depth 1.25 m from inlet invert	PIA2016-DH-1601-1003.01

Population equivalent (PE)	Drawing of model of the range	Watertightness (EN 12566-3 Annex A)	Treatment Efficiency (EN 12566-3 Annex B)	Structural Behaviour (EN 12566-3 Annex C)	Durability
50	 50 PE, var_2	PIA2012-WD-1203-1017 PIA2013-WD-1203-1017	Pass Range conformity according to S.R. 66:2015	Pass PIA2009-ST-AT0710-1012 For wet ground conditions also, installation depth 1.25 m from inlet invert	PIA2016-DH-1601-1003.01

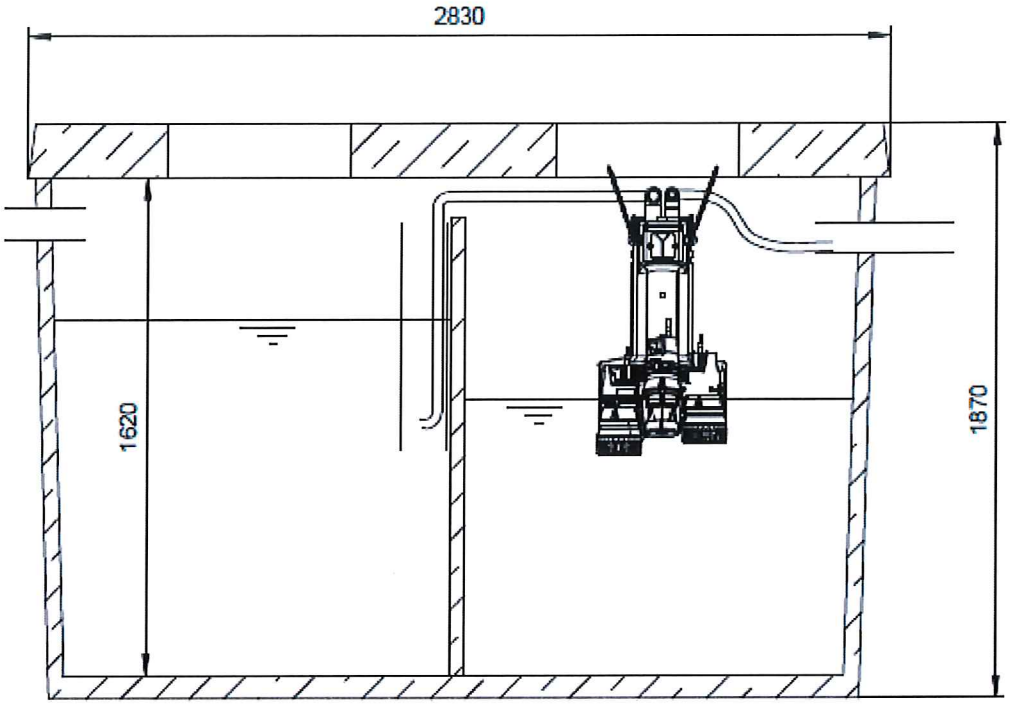


1200 GALLON TANK

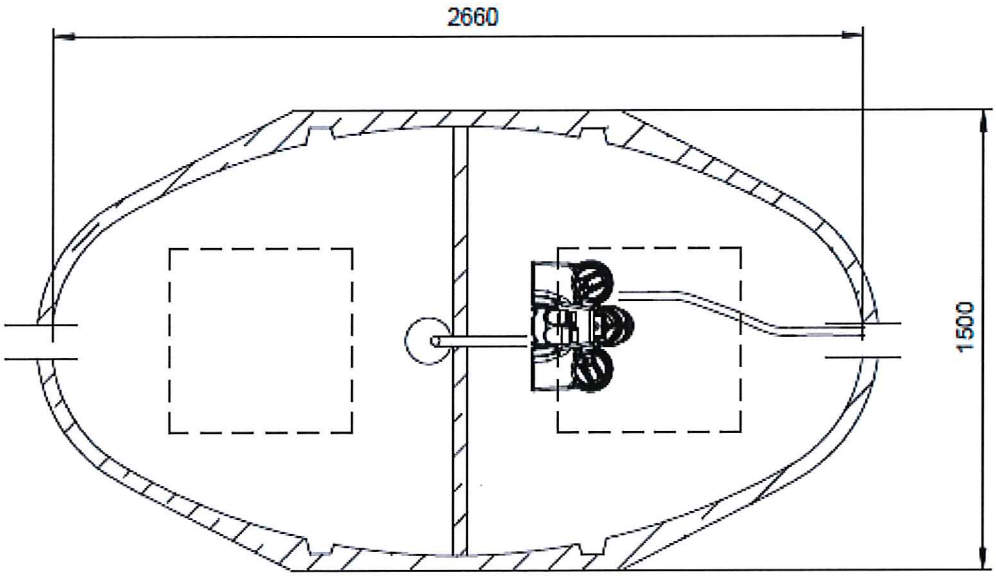


08 PE

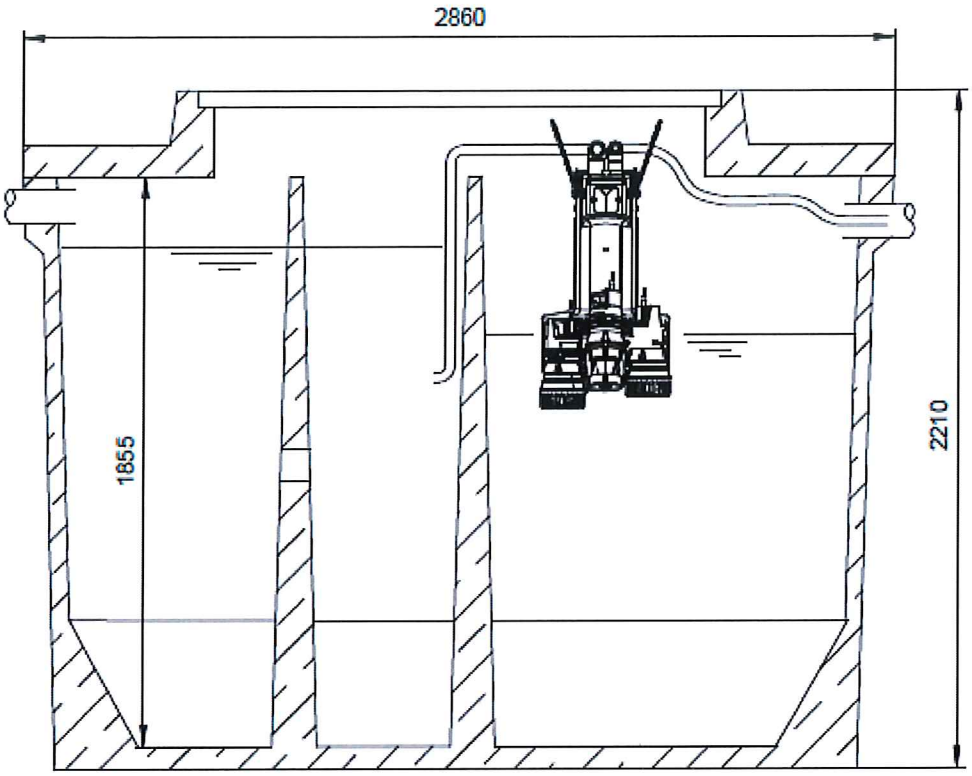
Compared tank



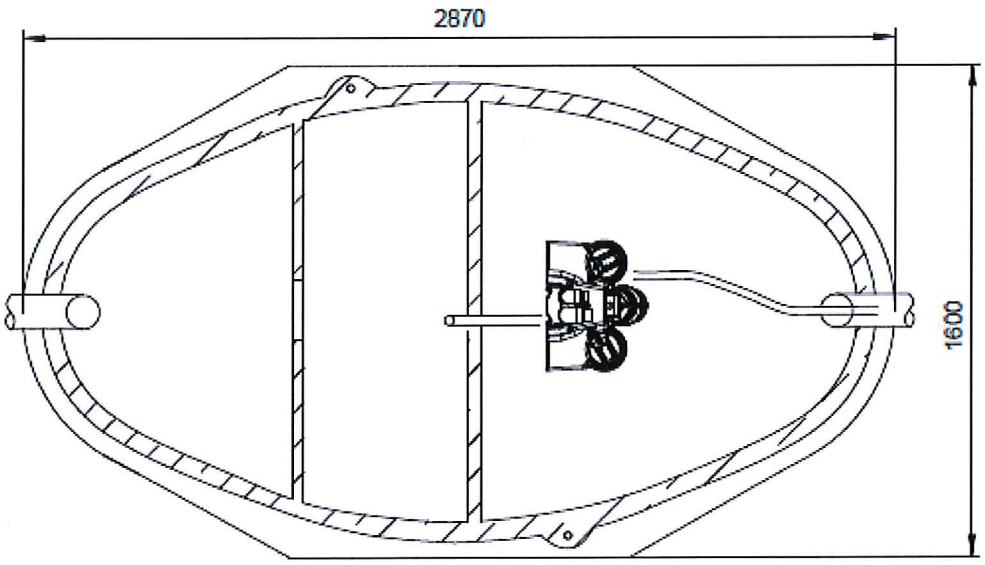
1000 GALLON TANK



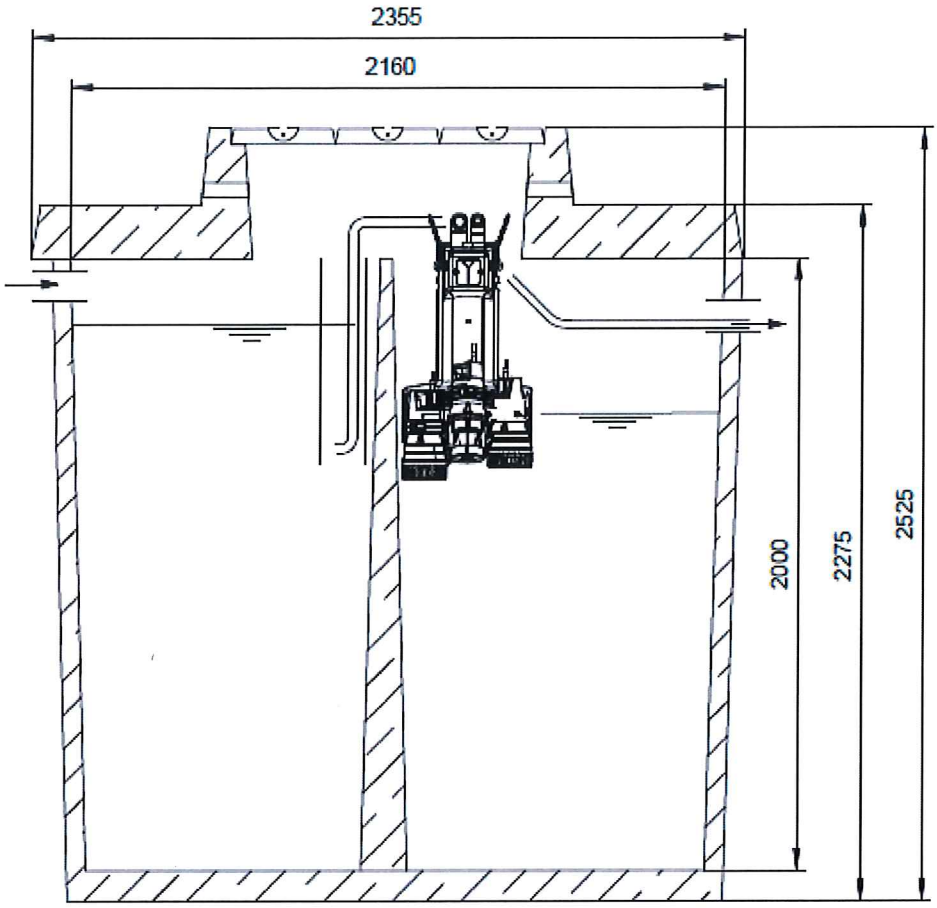
05 PE



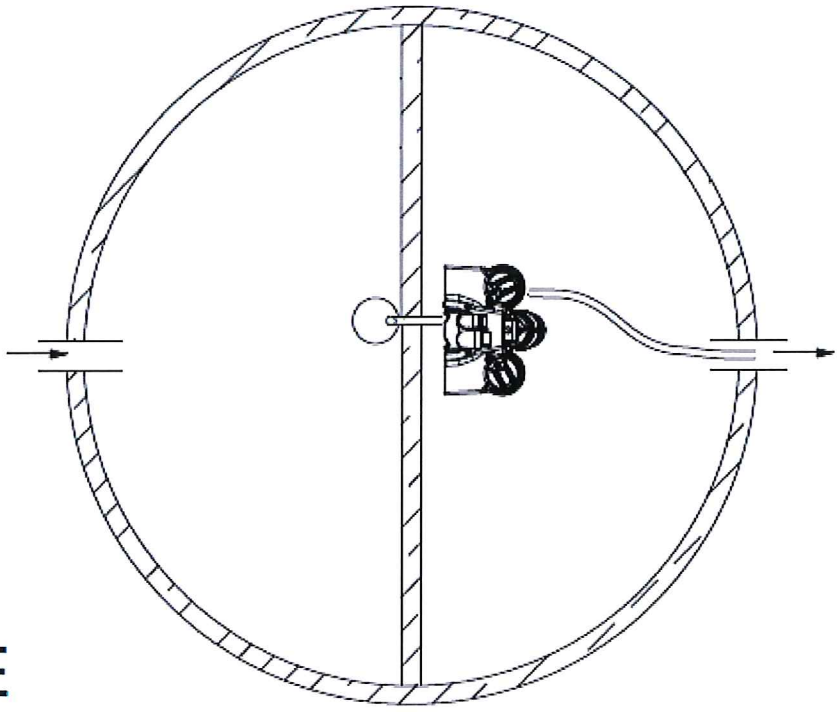
1200 GALLON TANK



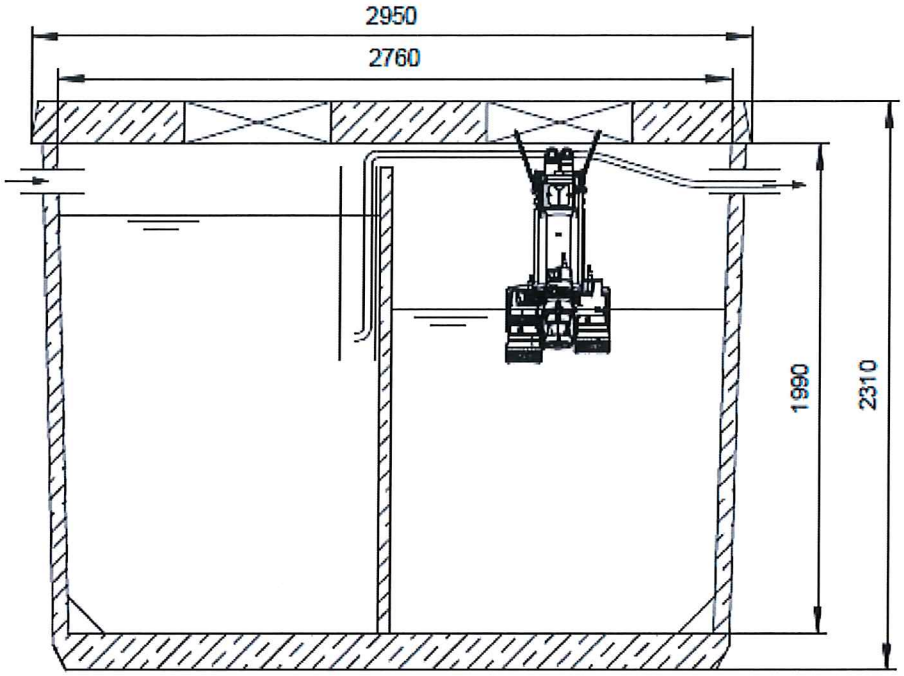
07 PE



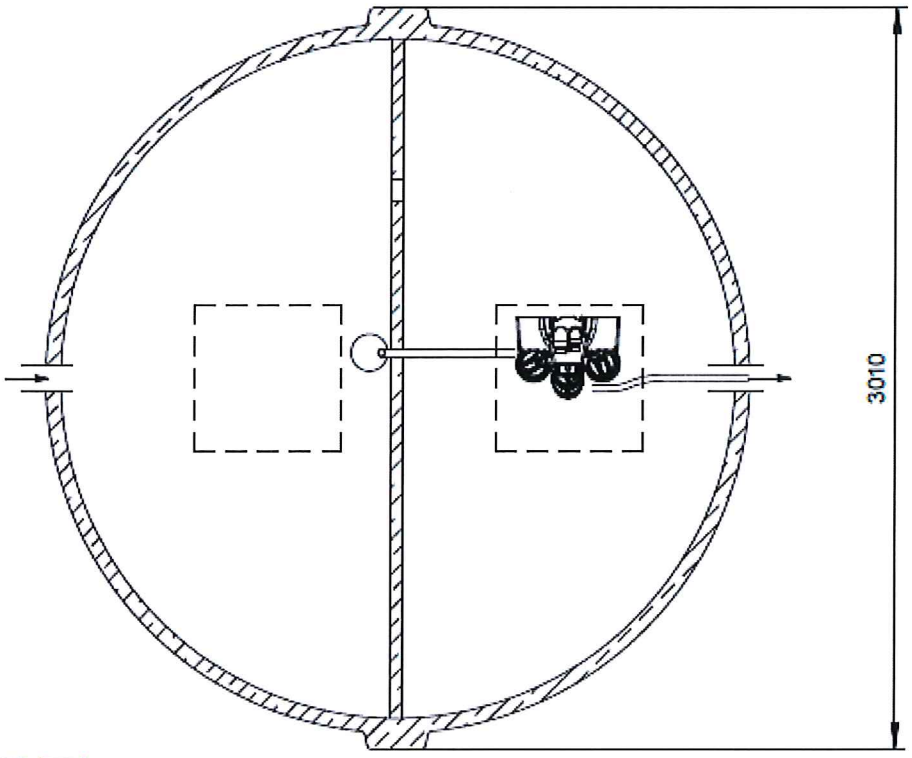
1500 GALLON TANK



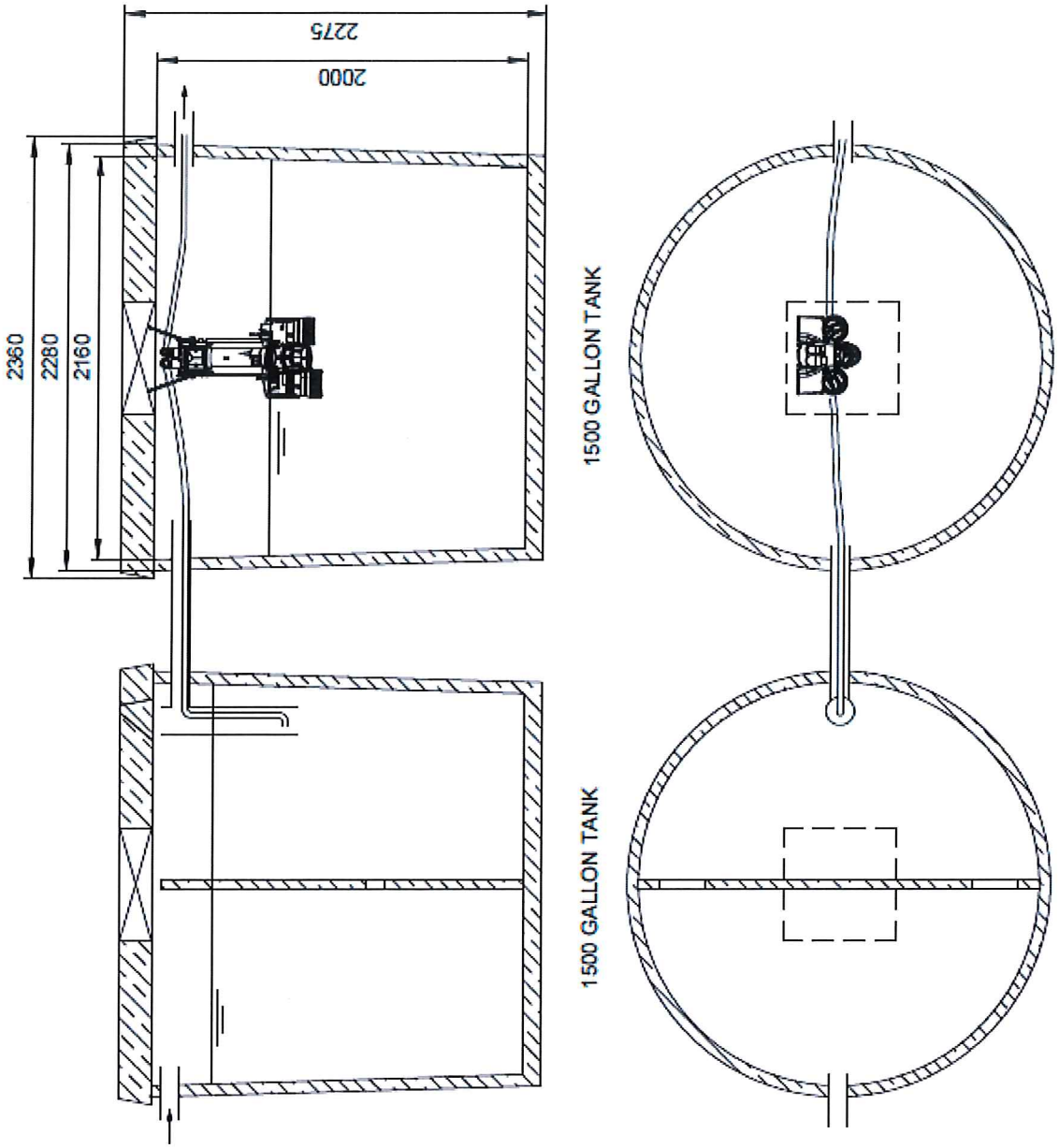
11 PE



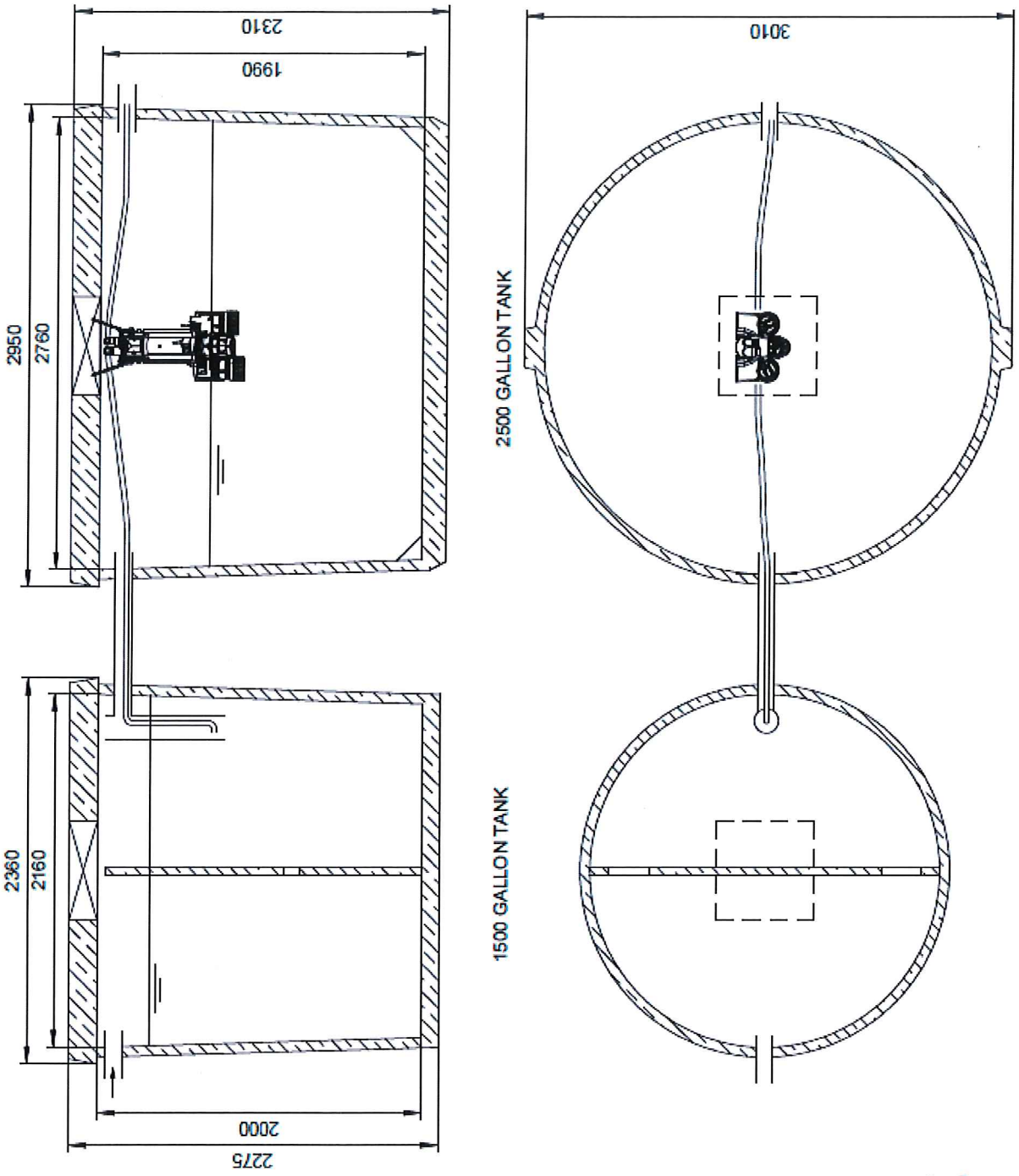
2500 GALLON TANK



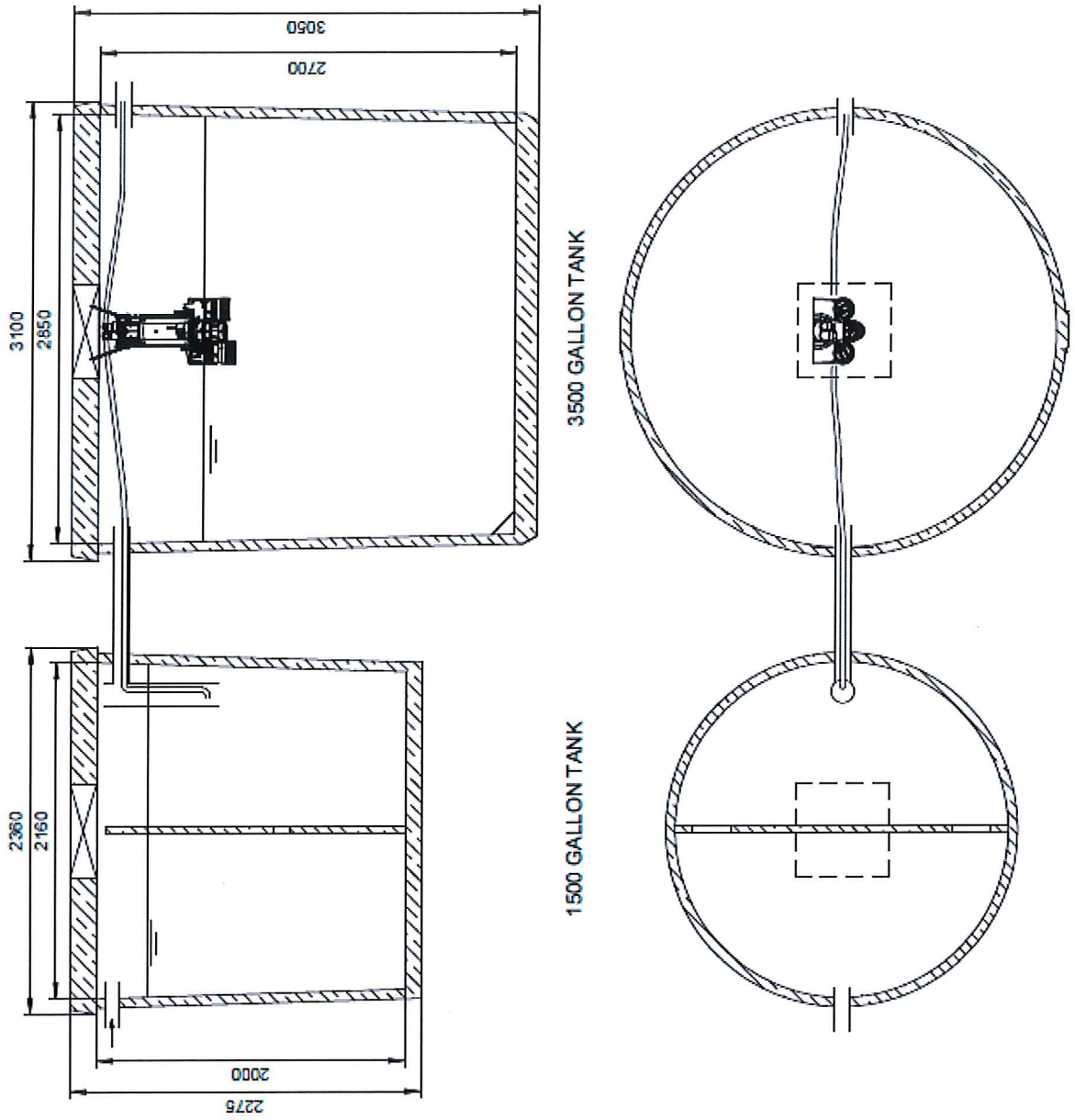
16 PE



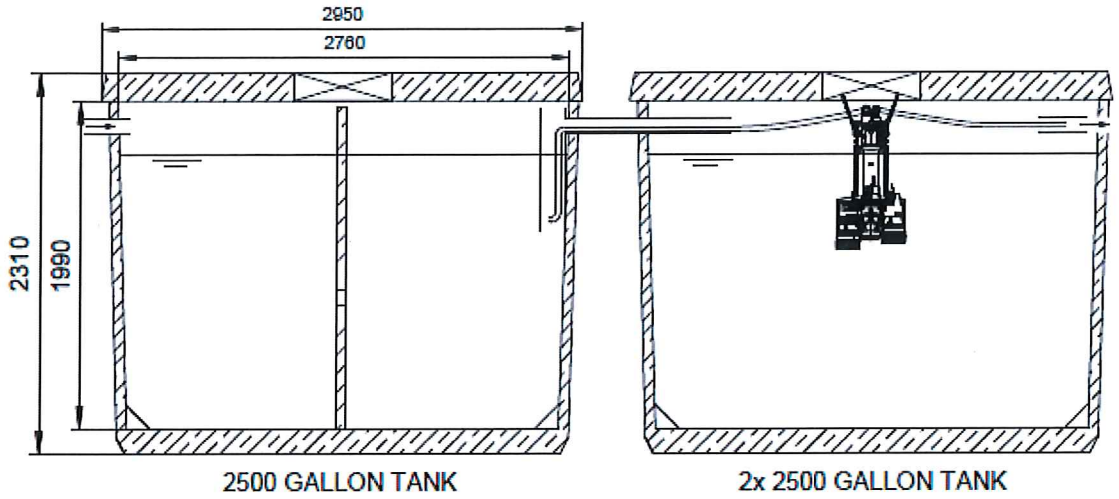
22 PE

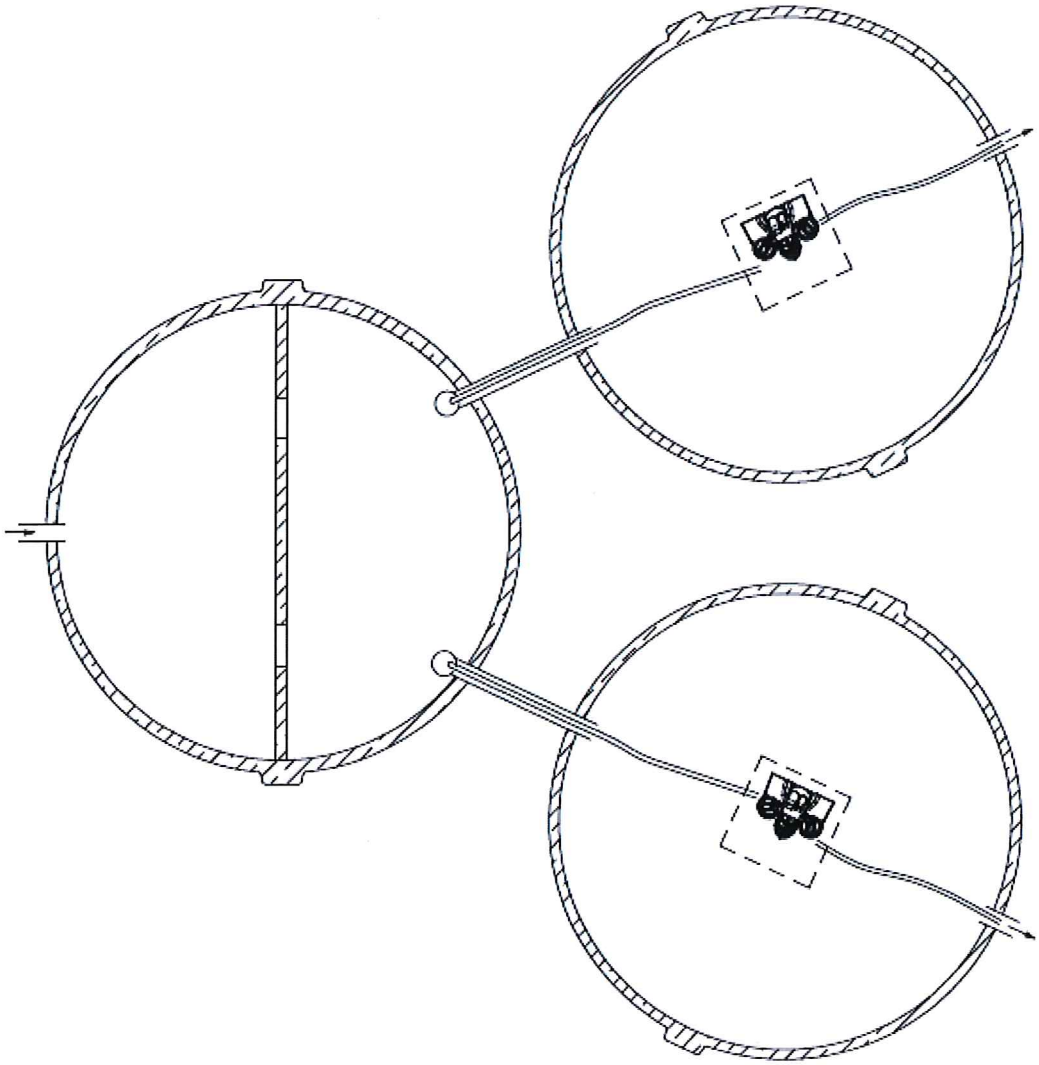

2310
1990
2950
2760
2360
2160
2000
2275
3010
2500 GALLON TANK
1500 GALLON TANK

36 PE

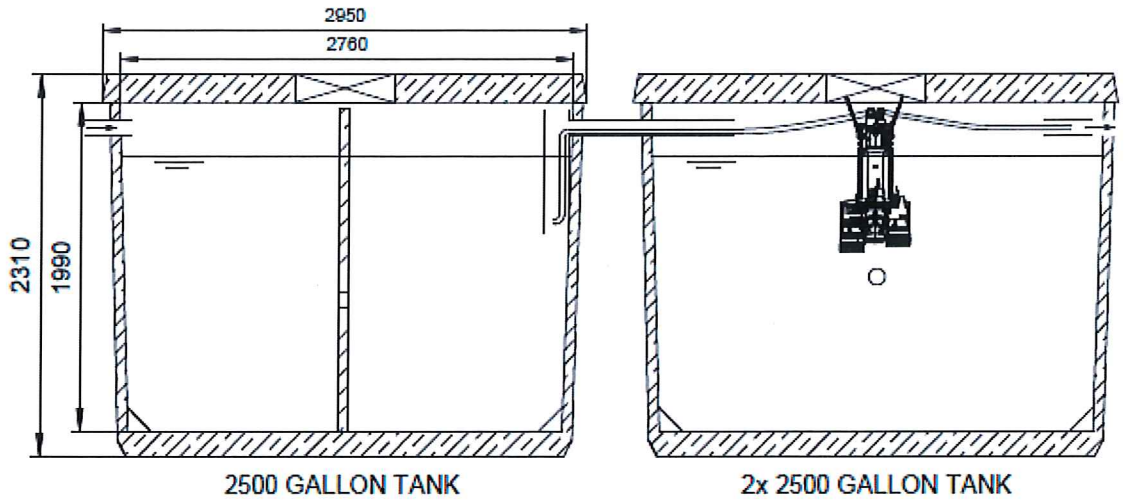

3050
2700
3100
2850
3500 GALLON TANK
1500 GALLON TANK
2360
2160
2000
2276

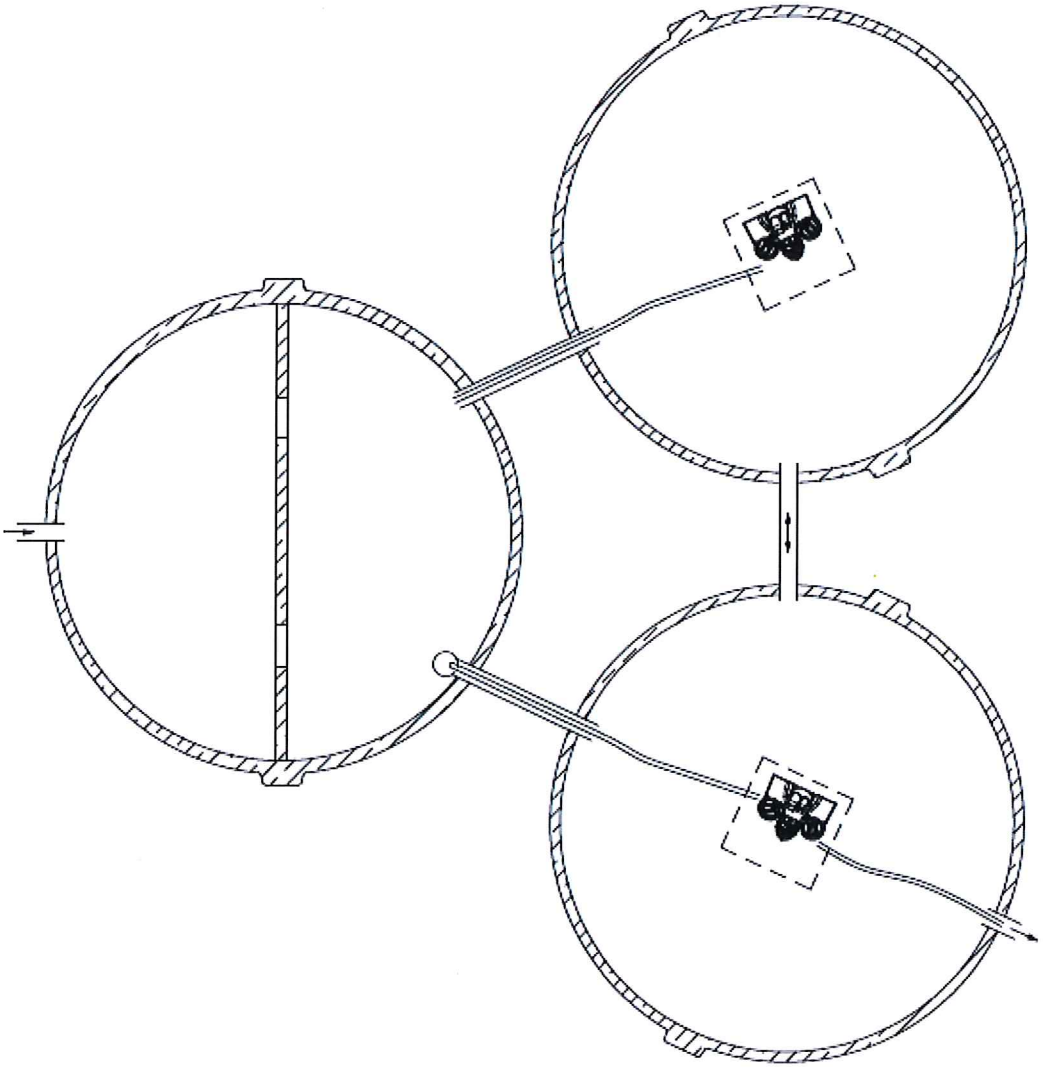
42 PE





50 PE, var_1





50 PE, var_2