TREATMENT PERFORMANCE RESULTS

Initial type test performed by **KLARO GmbH**
Distributed by **Wastewater Solutions**
Spitzwegstraße 63, 95447 Bayreuth, Germany

EN 12566-3 Annex B
Results corresponding to EN 12566-3 and S.R. 66

Test report PIA-SR66-2103-1017.02, shared itt

KLARO One
Fully aerated sequence batch system (initial type test)
in combination with Graf Carat S tanks

Nominal organic daily load (influent)	0.27 kg BOD_5/d		
Nominal hydraulic daily load	0.75 m^3/d		
Treatment efficiency (nominal sequences)		Efficiency	Effluent
	COD	94.8 %	41 mg/l
	BOD_5	98.1 %	7 mg/l
	NH_4-N	98.5 %	0.5 mg/l
	SS	96.6 %	14 mg/l
Electrical consumption	0.63 kWh/d		
Number of desludging	Not more than once		

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 9001:2015

PIA - Sustainable Certification

geprüft - tested - testé

Martina Wermter April 2022

PERFORMANCE RESULTS

Initial type test performed by **Otto Graf GmbH**
Carl-Zeiss-Str. 2-6, 79331 Teningen, Germany

EN 12566-3 Annex A and C
Results corresponding to EN 12566-3 and S.R. 66

Test report PIA-SR66-2103-1017.02, shared itt

Graf Carat S
Graf Carat S tanks in combination with treatment kit KLARO One
(Fully aerated sequence batch system)

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

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

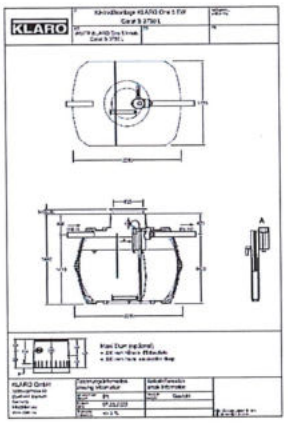
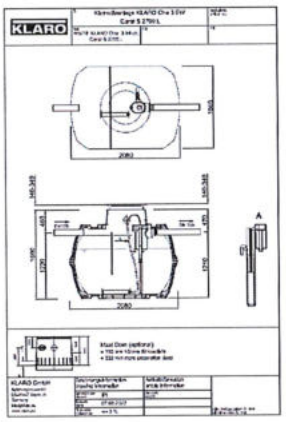
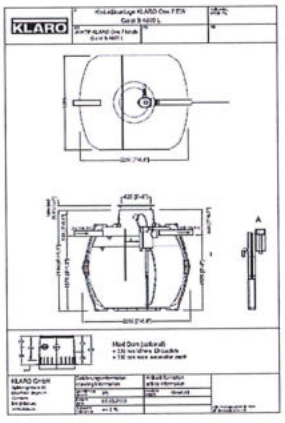
Certified according to
ISO 9001:2015

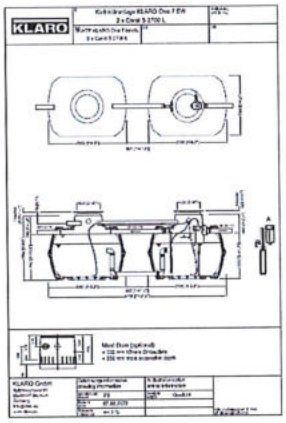
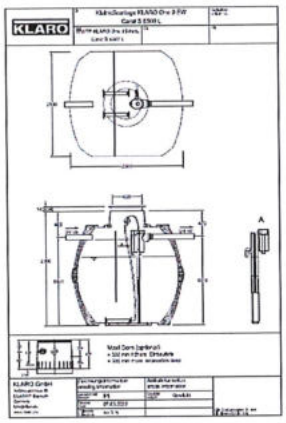
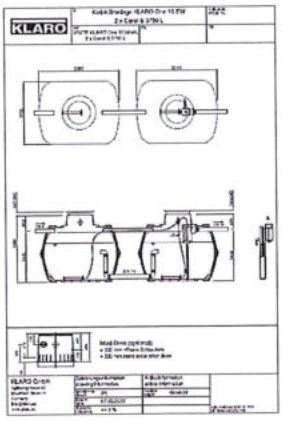
PIA - Sustainable Certification

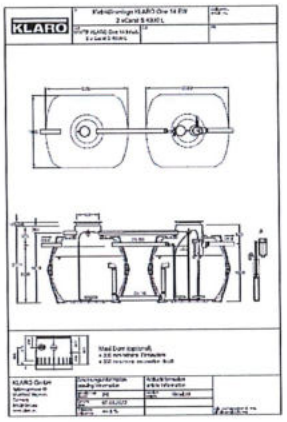
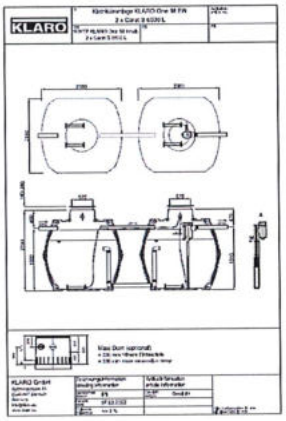
geprüft - tested- testé

Daniela Schmitz April 2022

KLARO One 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 (EN 12566-3)
Initial Type Test (ITT) 5		Pass PIA2021-WD-2101-1002.03	KLARO One: Pass PIA2014-216B14.02	Pass For wet ground conditions also, installation depth 1.75 m from inlet invert	Pass PIA2016-DH-1509-1050.02
3		Pass PIA2021-WD-2101-1002.03	Pass Range conformity according to S.R. 66:2015	Pass For wet ground conditions also, installation depth 1.75 m from inlet invert	Pass PIA2016-DH-1509-1050.02
7		Pass PIA2021-WD-2101-1002.03	Pass Range conformity according to S.R. 66:2015	Pass For wet ground conditions also, installation depth 1.75 m from inlet invert	Pass PIA2016-DH-1509-1050.02

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 (EN 12566-3)
7		Pass PIA2021-WD-2101-1002.03	Pass Range conformity according to S.R. 66:2015	Pass For wet ground conditions also, installation depth 1.75 m from inlet invert	Pass PIA2016-DH-1509-1050.02
9		Pass PIA2016-WD-1509-1050.02	Pass Range conformity according to S.R. 66:2015	Pass PIA2016-ST-PIT-1509-1050.02 For wet ground conditions also, installation depth 1.75 m from inlet invert	Pass PIA2016-DH-1509-1050.02
10		Pass PIA2021-WD-2101-1002.03	Pass Range conformity according to S.R. 66:2015	Pass For wet ground conditions also, installation depth 1.75 m from inlet invert	Pass PIA2016-DH-1509-1050.02

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 (EN 12566-3)
14		Pass PIA2021-WD-2101-1002.03	Pass Range conformity according to S.R. 66:2015	Pass For wet ground conditions also, installation depth 1.75 m from inlet invert	Pass PIA2016-DH-1509-1050.02
18		Pass PIA2016-WD-1509-1050.02	Pass Range conformity according to S.R. 66:2015	Pass PIA2016-ST-PIT-1509-1050.02 For wet ground conditions also, installation depth 1.75 m from inlet invert	Pass PIA2016-DH-1509-1050.02

KLARO

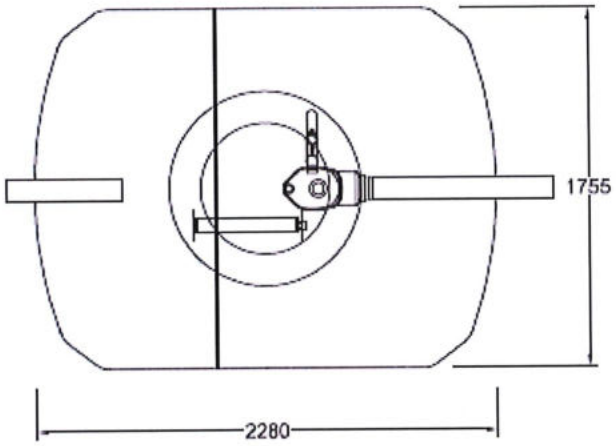
D
Kleinkläranlage KLARO One 5 EW
Carat S 3750 L

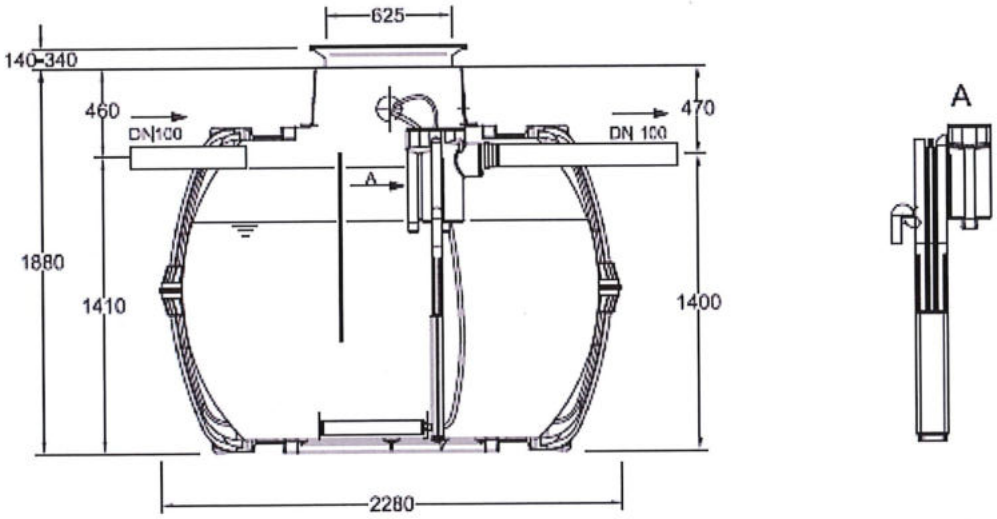
Artikel-Nr.
article no.

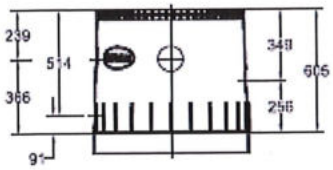
GB
WWTP KLARO One 5 Inhab.
Carat S 3750 L

ES

FR







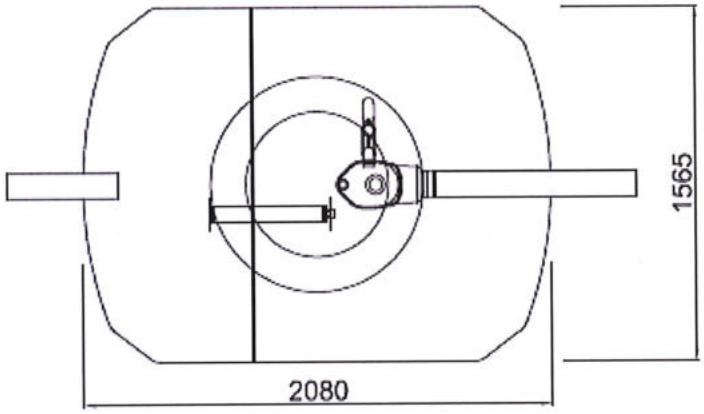
Maxi Dom (optional)
- 330 mm höhere Einbautiefe
- 330 mm more excavation deep

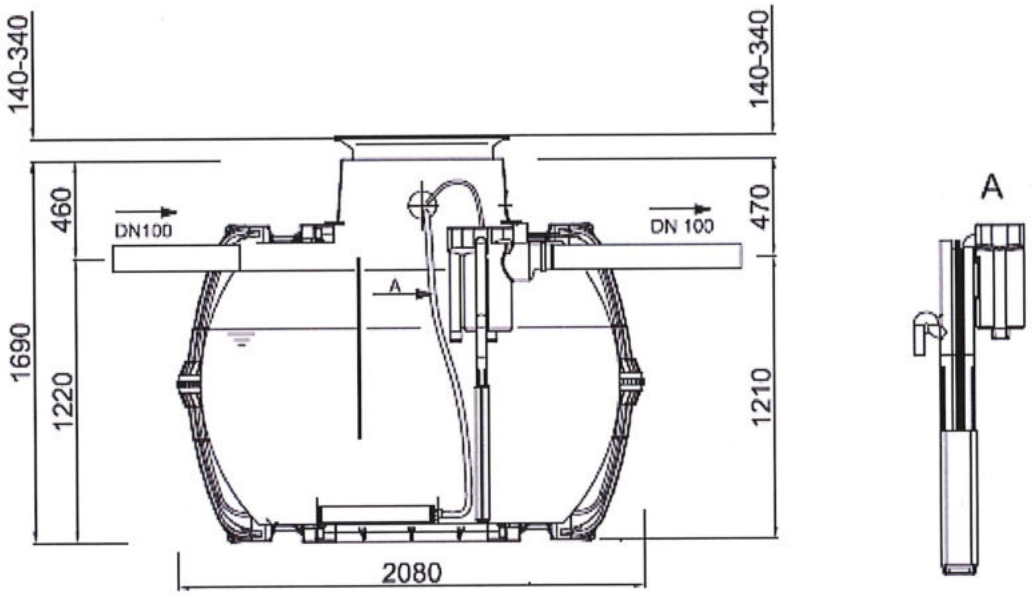
KLARO GmbH
Spitzwegstrasse 63
DE-95447 Bayreuth
Germany
Info@klaro.eu
www.klaro.eu

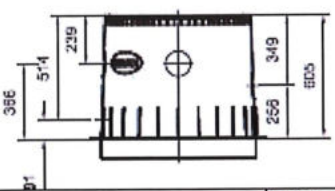
Zeichnungsinformation drawing information		Artikelinformation article information	
gezeichnet drawn	IPI	Gewicht weight	Gewicht
Datum date	07.03.2022		
Toleranz tolerance	+/- 3 %		

Alle Maßangaben in mm
all dimension in mm

KLARO	D Kleinkläranlage KLARO One 3 EW Carat S 2700 L	Artikel-Nr. article no.
	GB WWTP KLARO One 3 Inhab. Carat S 2700 L	ES / FR



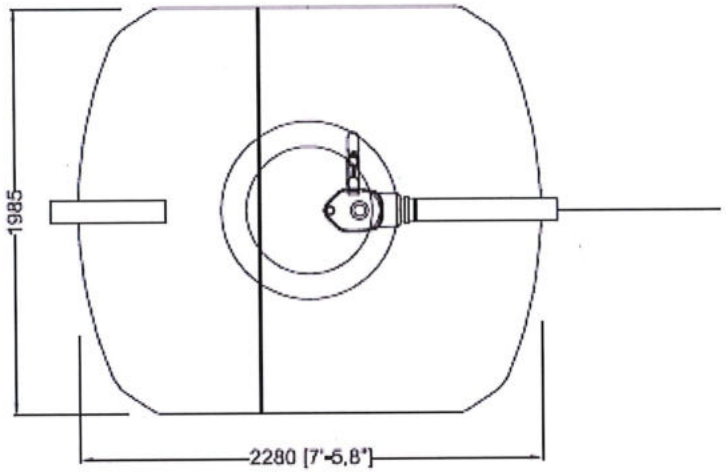


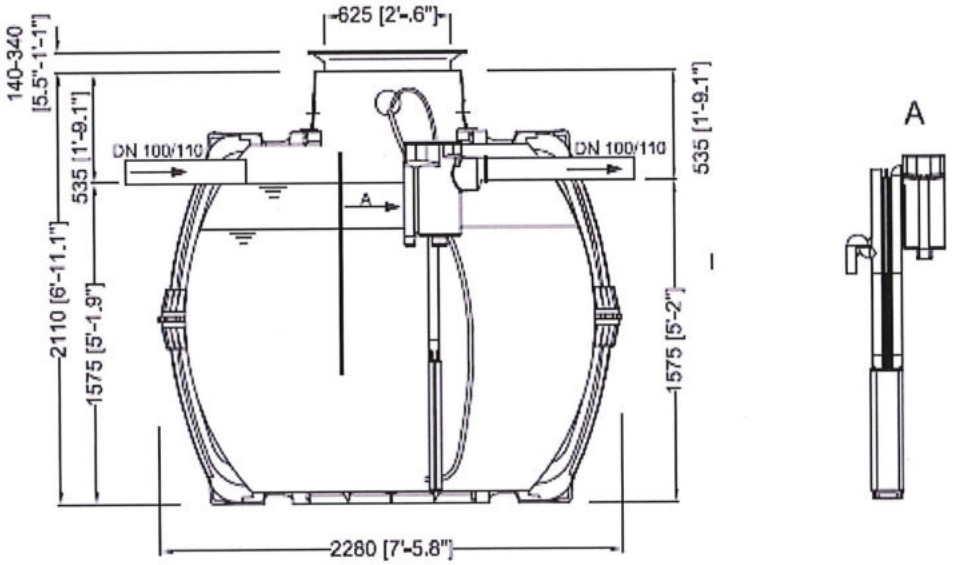


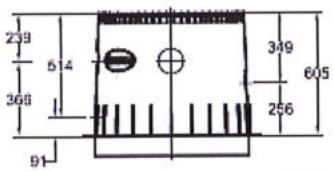
Maxi Dom (optional)
- 330 mm höhere Einbautiefe
- 330 mm more excavation deep

KLARO GmbH Spitzwegstrasse 63 DE-95447 Bayreuth Germany Info@klaro.eu www.klaro.eu	Zeichnungsinformation drawing information		Artikelinformation article information
	gezeichnet drawn	IPI	Gewicht weight
	Datum date	07.03.2022	
	Toleranz tolerance	+/- 3 %	Alle Maßangaben in mm all dimension in mm

KLARO	D Kleinkläranlage KLARO One 7 EW Carat S 4800 L		Artikel-Nr. article no.
	GB WWTP KLARO One 7 Inhab. Carat S 4800 L	ES	FR



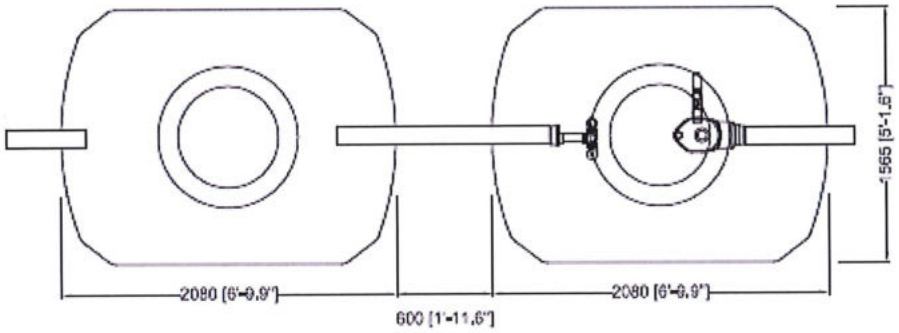


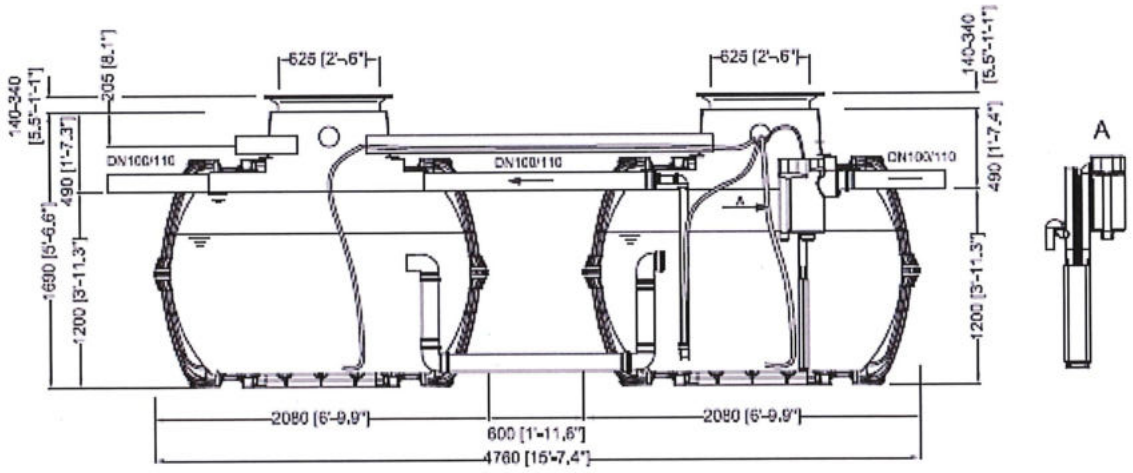


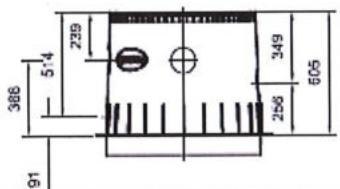
Max. Dom (optional)
- 330 mm höhere Einbautiefe
- 330 mm more excavation depth

KLARO GmbH	Zeichnungsinformation drawing information		Artikelinformation article information	
Spitzwegstrasse 63	gezeichnet drawn	IPI	Gewicht weight	Gewicht
DE-95447 Bayreuth	Datum date	07.03.2022		
Germany	Toleranz tolerance	+/- 3 %		Alle Maßangaben in mm all dimensions in mm
Info@klaro.eu				
www.klaro.eu				

KLARO	D Kleinkläranlage KLARO One 7 EW 2 x Carat S 2700 L		Artikel-Nr. article no.
	GB WWTP KLARO One 7 Inhab. 2 x Carat S 2700 L	ES	FR



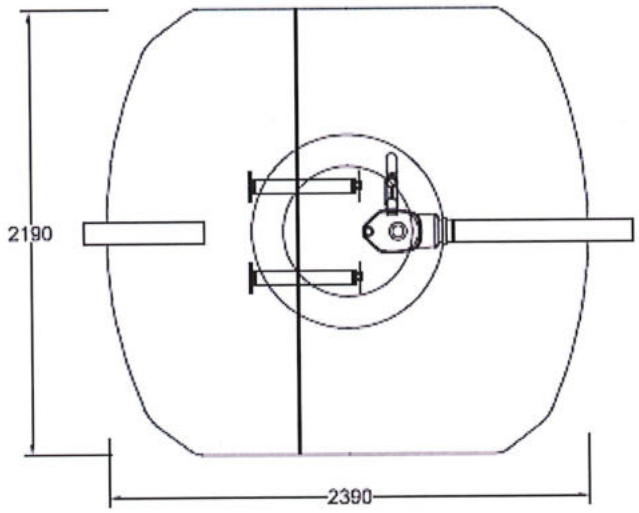


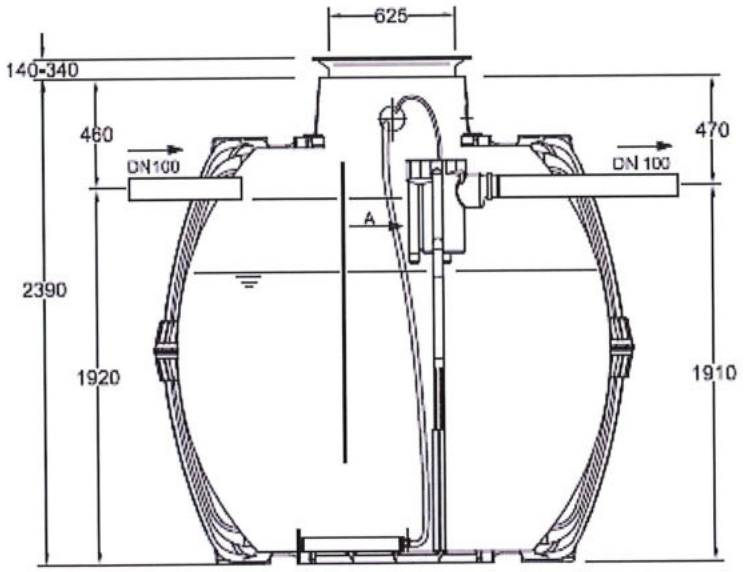


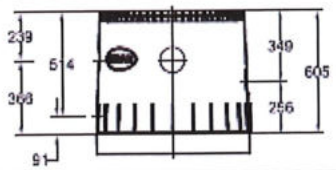
Maxi Dom (optional)
- 330 mm höhere Einbautiefe
- 330 mm more excavation depth

KLARO GmbH Spitzwegstrasse 63 DE-95447 Bayreuth Germany Info@klaro.eu www.klaro.eu	Zeichnungsinformation drawing information		Artikelinformation article information		
	gezeichnet drawn	IPI	Gewicht weight	Gewicht	
	Datum date	07.03.2022			
	Toleranz tolerance	+/- 3 %			Alle Maßangaben in mm all dimension in mm

KLARO	D Kleinkläranlage KLARO One 9 EW Carat S 6500 L		Artikel-Nr. article no.
	GB WWTP KLARO One 9 Inhab. Carat S 6500 L	ES	FR



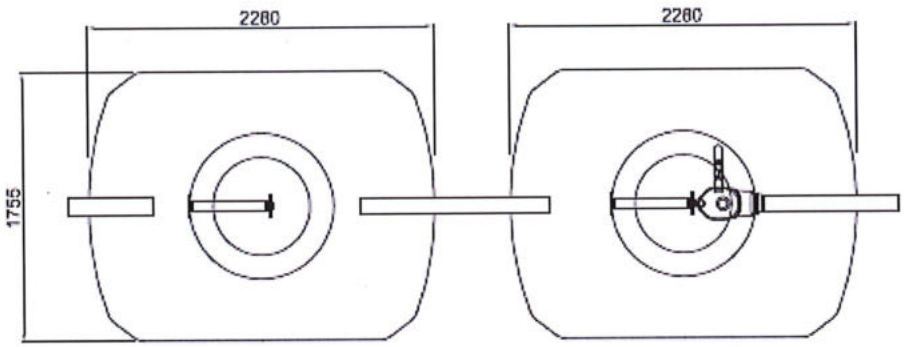


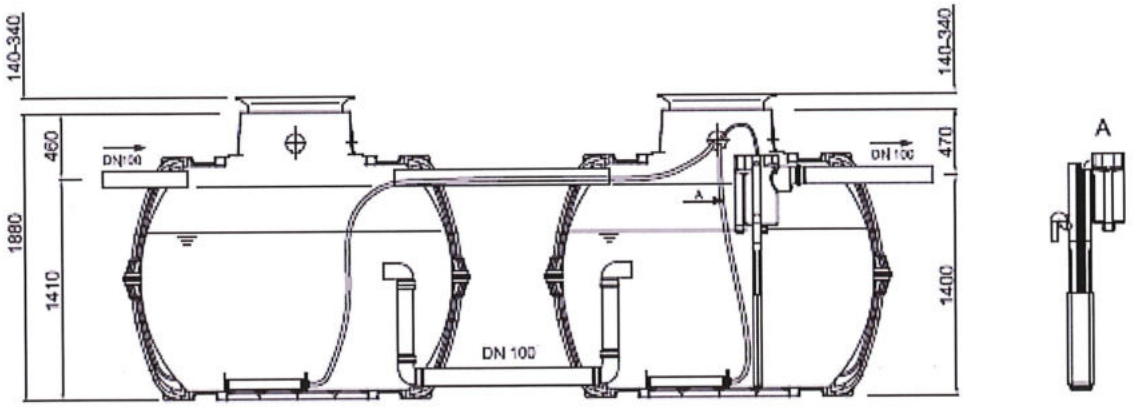


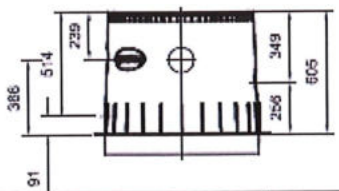
Maxi Dom (optional)
- 330 mm höhere Einbautiefe
- 330 mm more excavation deep

KLARO GmbH Spitzwegstrasse 63 DE-95447 Bayreuth Germany info@klaro.eu www.klaro.eu	Zeichnungsinformation drawing information		Artikelinformation article information	
	gezeichnet drawn	IPI	Gewicht weight	Gewicht
	Datum date	07.03.2022		
	Toleranz tolerance	+/- 3 %		Alle Maßangaben in mm all dimension in mm

KLARO	D Kleinkläranlage KLARO One 10 EW 2 x Carat S 3750 L		Artikel-Nr. article no.
	GB WWTP KLARO One 10 Inhab. 2 x Carat S 3750 L	ES	FR



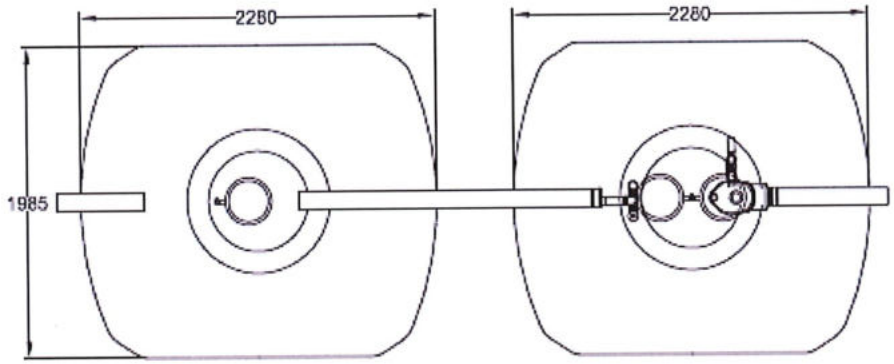


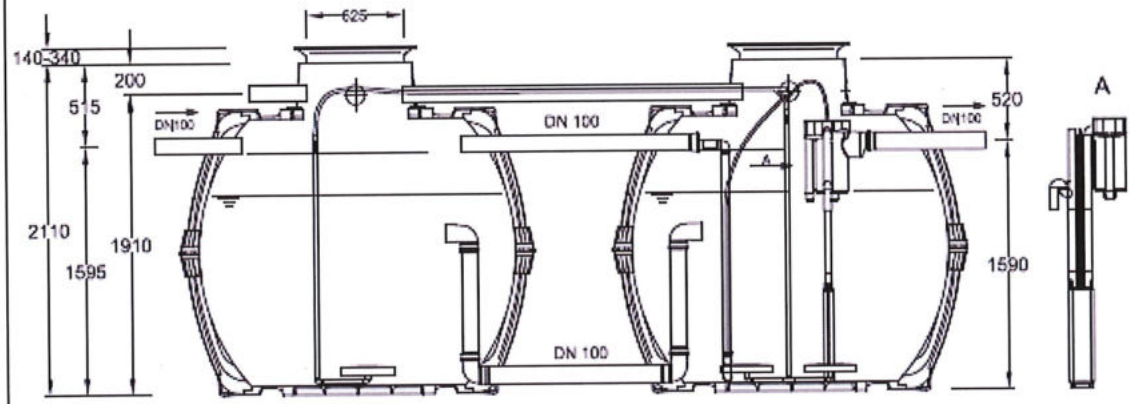


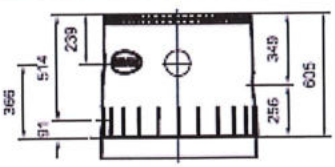
Maxi Dom (optional)
- 330 mm höhere Einbautiefe
- 330 mm more excavation deep

KLARO GmbH Spitzwegstrasse 63 DE-95447 Bayreuth Germany Info@klaro.eu www.klaro.eu	Zeichnungsinformation drawing information		Artikelinformation article information		
	gezeichnet drawn	IPI	Gewicht weight	Gewicht	
	Datum date	07.03.2022			
	Toleranz tolerance	+/- 3 %			Alle Maßangaben in mm all dimension in mm

KLARO	D Kleinkläranlage KLARO One 14 EW 2 xCarat S 4800 L	Artikel-Nr. article no.
	GB WWTP KLARO One 14 Inhab. 2 x Carat S 4800 L ES	FR



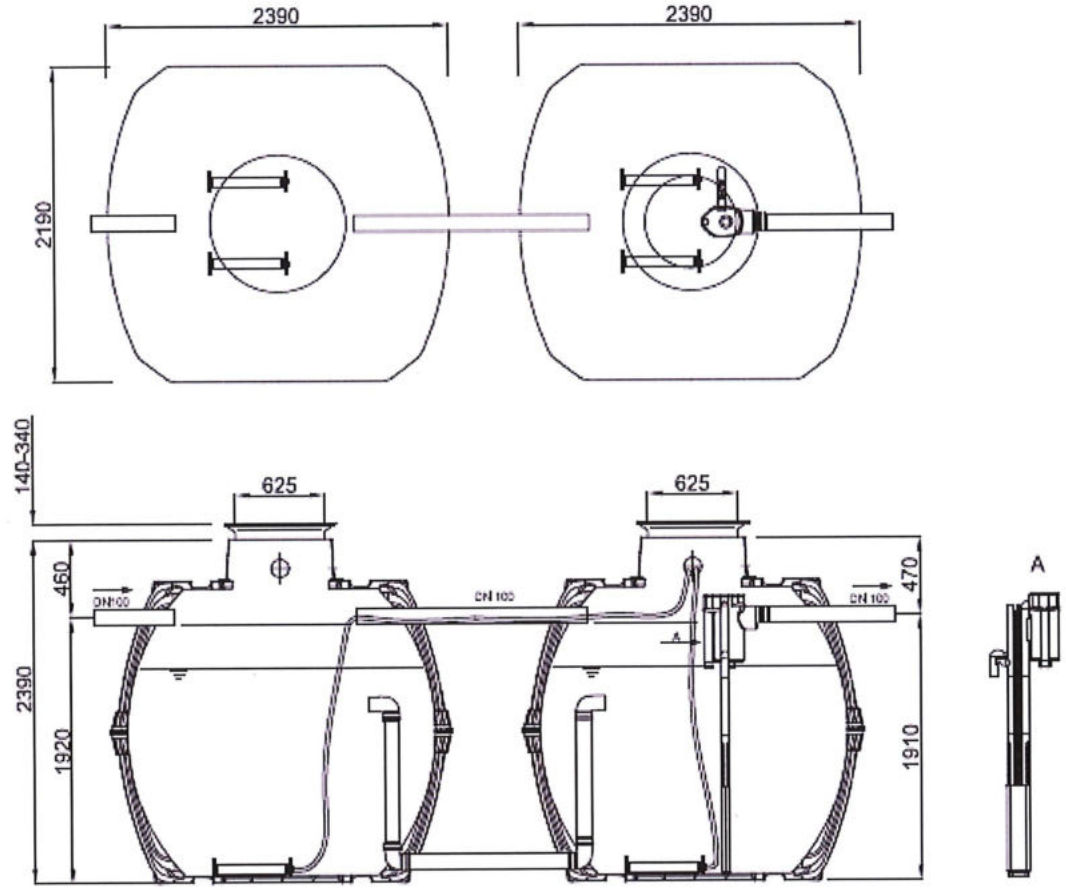


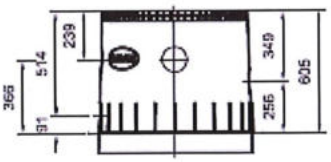


Maxi Dom (optional)
- 330 mm höhere Einbautiefe
- 330 mm more excavation depth

KLARO GmbH Spitzwegstrasse 63 DE-95447 Bayreuth Germany info@klaro.eu www.klaro.eu	Zeichnungsinformation drawing information		Artikelinformation article information	
	gezeichnet drawn	IPI	Gewicht weight	Gewicht
	Datum date	07.03.2022		
	Toleranz tolerance	+/- 3 %		Alle Maßangaben in mm all dimension in mm

KLARO	D Kleinkläranlage KLARO One 18 EW 2 x Carat S 6500 L		Artikel-Nr. article no.
	GB WWTP KLARO One 18 Inhab. 2 x Carat S 6500 L	ES	FR





Maxi Dom (optional)
- 330 mm höhere Einbautiefe
- 330 mm more excavation deep

KLARO GmbH Spitzwegstrasse 63 DE-95447 Bayreuth Germany info@klaro.eu www.klaro.eu	Zeichnungsinformation drawing information		Artikelinformation article information	
	gezeichnet drawn	IPI	Gewicht weight	Gewicht
	Datum date	07.03.2022		
	Toleranz tolerance	+/- 3 %		Alle Maßangaben in mm all dimension in mm