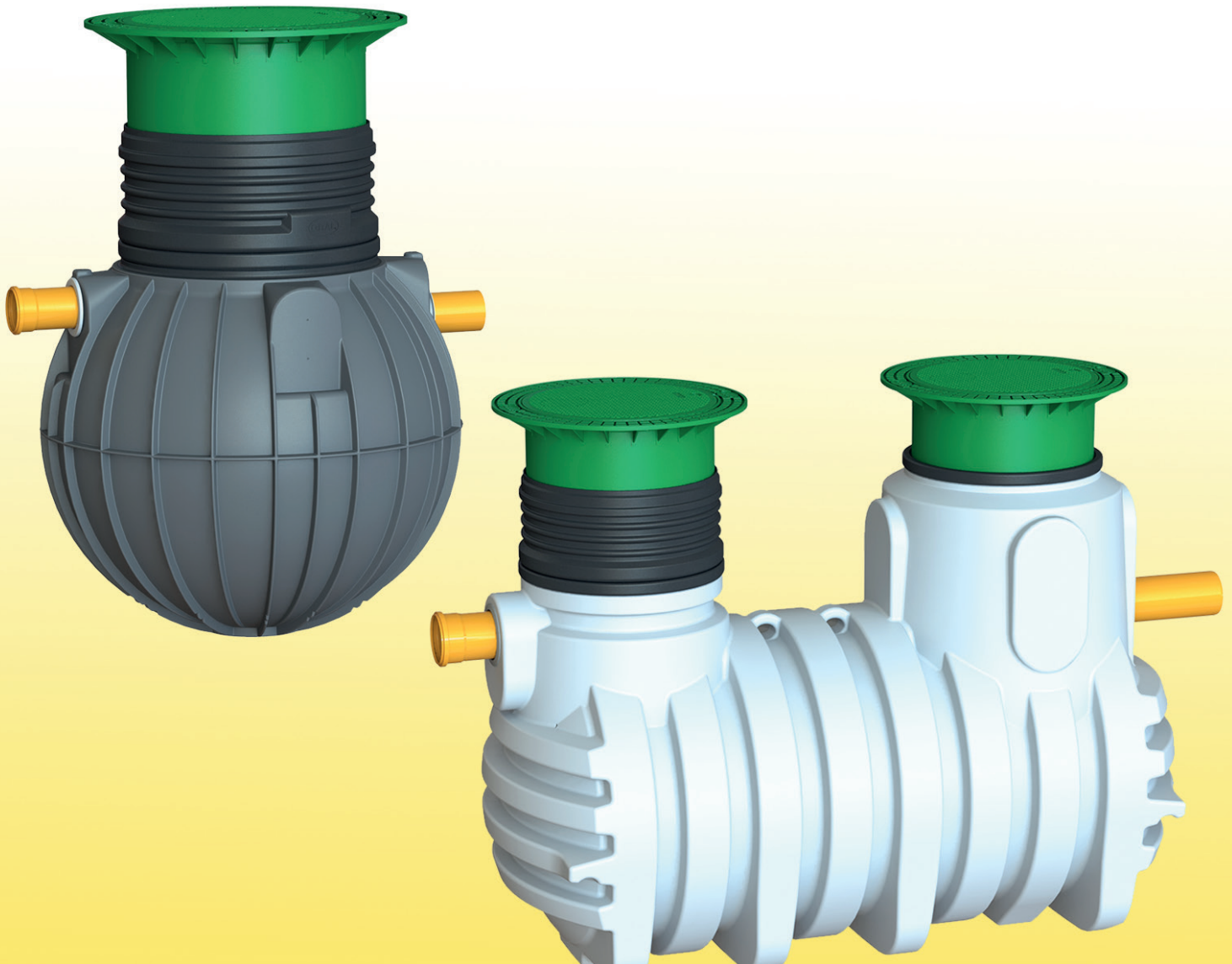


KLARO grease separator

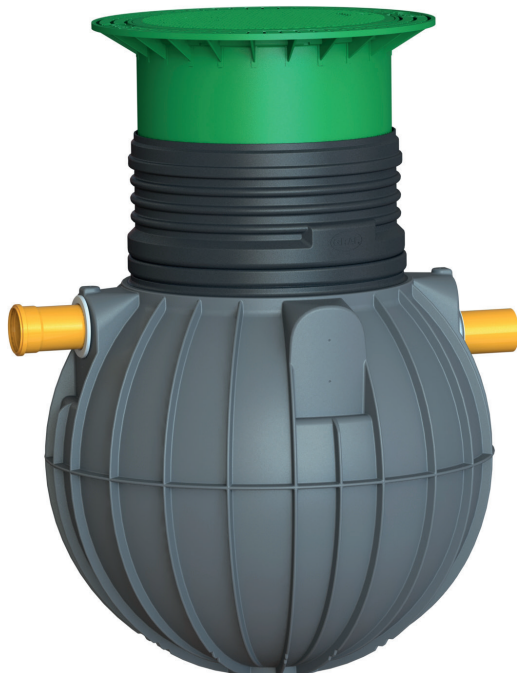
We provide clean water



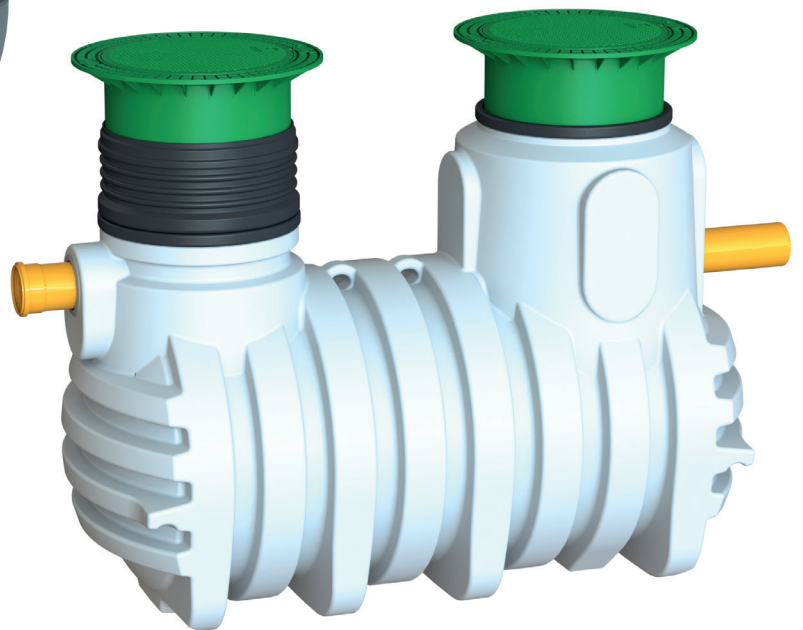
Advantages

Advantages of the KLARO grease separator / plastic tank

KL *sepa.pop*



- All assembly components in PVC-KG
- Integrated sampling port
- Up to Normsize (NS) 15



- Seamless tank manufactured in one piece
- No degradable internal coating
- Attachment parts in plastic with variable height and level adjustment
- Compact sizes
- Low maintenance costs with easy-clean internal surfaces
- 15 year warranty on PE materials

Table of Contents

1. General

1.1. KLARO GmbH in Bayreuth 3

1.2. Grease separator system 4

1.3. Areas of application 4

2. Description of system

2.1. KLsepa.pop NS 1 - 4 5

2.2. KLsepa.pop NS 4 - 15 6

2.3. Dome assembly and covers 7

1.1. KLARO GmbH in Bayreuth

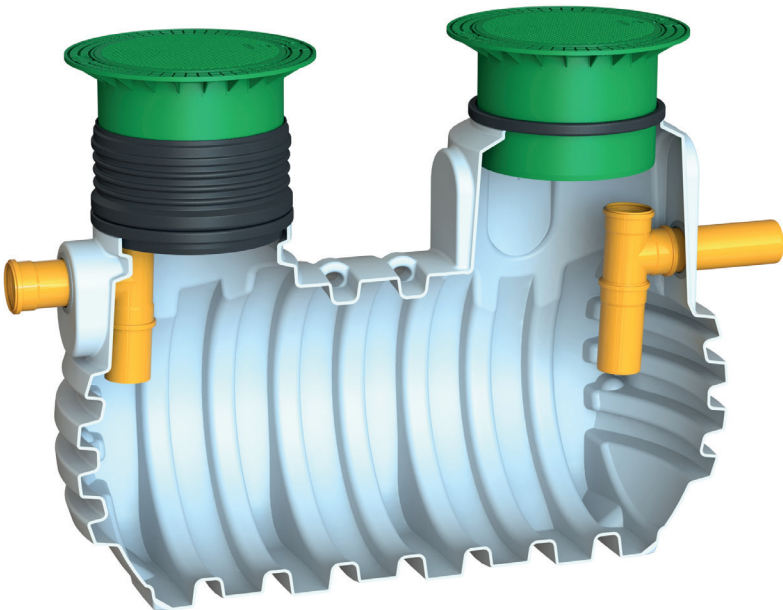


KLARO company site

KLARO GmbH, in Bayreuth, has been ensuring clear water since 2001. Our 26 multi-disciplined employees always create the optimum and most practical solution for your needs. Through our experience and continuous development we have established a portfolio of high quality, clarification solutions for decentralized wastewater treatment. The range of KLARO wastewater treatment technology also now includes a mobile water treatment plant in a 20 foot sea container. Worldwide there are already 300,000 people who rely on proven KLARO technology.

A further development is the KLARO oil separation system. We offer two sophisticated, class I and class II light fluid separators with the KLsepa.compact and the KLsepa.collect. The range of separators is complemented by the KLsepa.pop grease separator.

KLARO has been a part of the GRAF group since January 2014. The GRAF brand has been synonymous with high quality plastic products in the field of water resource management for over 50 years. GRAF is well-known to KLARO as a long-standing customer and supplier of septic tanks. The high-quality separator containers are manufactured in the GRAF facilities. Therefore you benefit from the expertise and quality of two established brands when you buy a KLARO product.



1. General

1.2. Grease separator system

In premises where wastewater containing fat and oil accumulates, the wastewater must be cleaned through a grease separator before it can be discharged into the drain. A grease separator operates according to the principle of phase separation. It consists of a separation zone, a fat collector, a sludge trap and a sampling

point. The system reduces the flow rate of the wastewater so that solids, such as food wastes, sink and settle in the sludge trap. The contaminants with lower density than water, i.e. fats and oils, float on the water surface. The wastewater liberated from the fat is fed into the main drainage system. The choice of the nominal size of the

separator is stipulated in EN 1825. In addition, it is necessary to comply with the wastewater regulations of the relevant local/water authority (e.g. emptying every 14 days; or monthly with local/water authority approval).

1.3. Areas of application

A separator must be installed wherever water is contaminated with oil, grease and other light liquids. Separation systems are classified according to the NS (Norm Size). As soon as you make an inquiry for a separator with us, we will calculate your required NS, which describes the flow rate in litres per second. Operators of the following facilities must ensure that a suitable, functioning separator is installed.



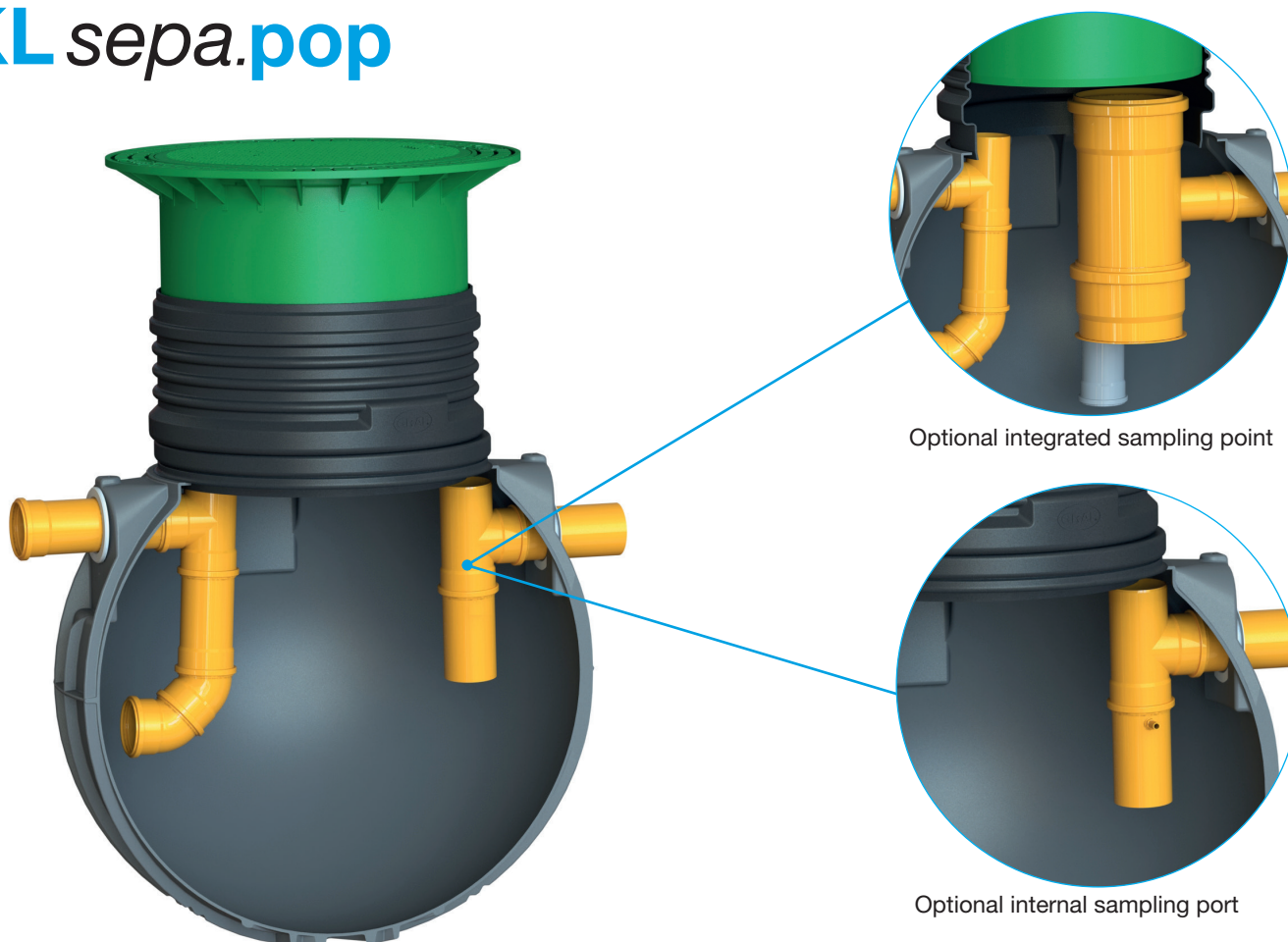
- Kitchen enterprises and canteen kitchens, e. g. restaurants, hotels, motorway services, canteens
- Food banks
- Butcher shops
- Slaughterhouses
- Refineries for cooking oil
- Canning factories
- Roasting houses for peanuts



2. Description of system

2.1. KLsepa.pop NS 1 - 4

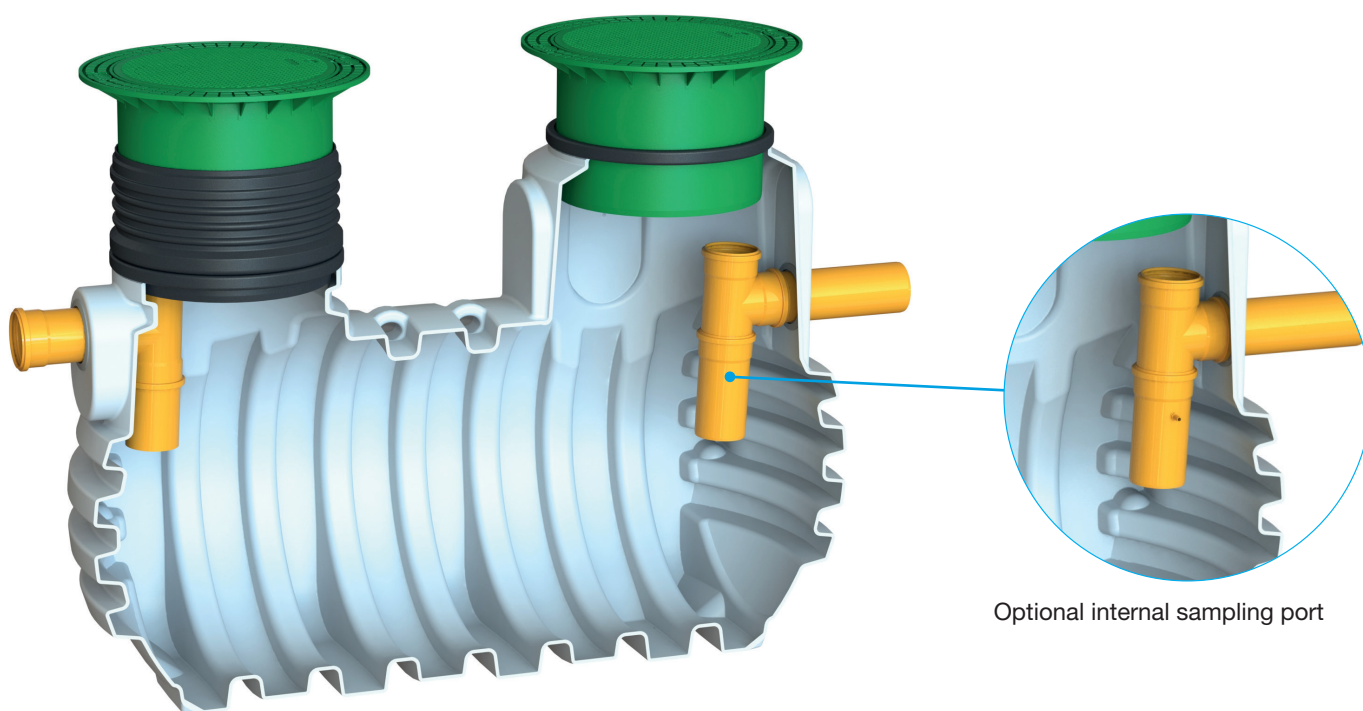
KLsepa.pop



| | | Tank geometry | | Volume | | | Weight |
|-------|------|---------------|-------------------------------|--------|--------|-------|---------|
| | | Diameter | Height (w/o dome assembly) | Grease | Sludge | Total | approx. |
| NS | DN | d | h | [l] | [l] | [l] | [kg] |
| [l/s] | [mm] | [m] | [m] | | | | |
| 1 | 100 | 1,13 | 1,04 | 200 | 200 | 490 | 35 |
| 2 | 100 | 1,13 | 1,04 | 200 | 200 | 490 | 35 |
| 2 | 100 | 1,16 | 1,34 | 400 | 200 | 770 | 55 |
| 2 | 100 | 1,16 | 1,34 | 200 | 400 | 770 | 55 |
| 2 | 100 | 1,16 | 1,67 | 300 | 500 | 1070 | 67 |
| 4 | 100 | 1,16 | 1,67 | 300 | 500 | 1070 | 67 |

2. Description of system

2.2. KLsepa.pop NS 4 - 15



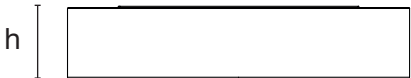
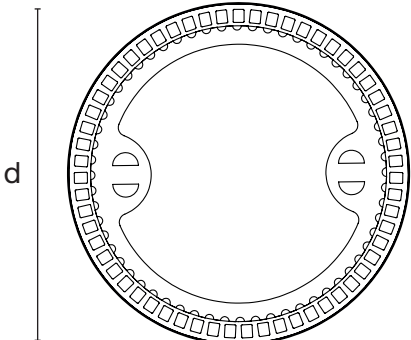
| | | Tank geometry | | | Volume | | | Weight |
|-------|------|---------------|-------|-------------------------------|--------|--------|-------|---------|
| | | Length | Width | Height (w/o dome assembly) | Grease | Sludge | Total | approx. |
| NS | DN | l | b | h | [l] | [l] | [l] | [kg] |
| [l/s] | [mm] | [m] | [m] | [m] | | | | |
| 4 | 150 | 2,45 | 1,15 | 1,66 | 350 | 700 | 2070 | 155 |
| 7 | 150 | 2,45 | 1,15 | 1,66 | 350 | 700 | 2070 | 155 |
| 10 | 200 | 2,45 | 1,40 | 1,90 | 600 | 1500 | 3160 | 235 |
| 15 | 200 | 2,45 | 1,40 | 1,90 | 600 | 1500 | 3160 | 235 |

2.3. Dome assembly and covers

- Incl. standard lip seals for easy connection
- Sealed to ground level
- Easily adapted to ground level with telescopic/tilting dome shaft
- Excellent stability due to modern

- manufacturing
- Unique precision fit of the components through new production process
- Suitable for foot traffic, or car/truck traffic with standard concrete rings and covers (supplied by customer).

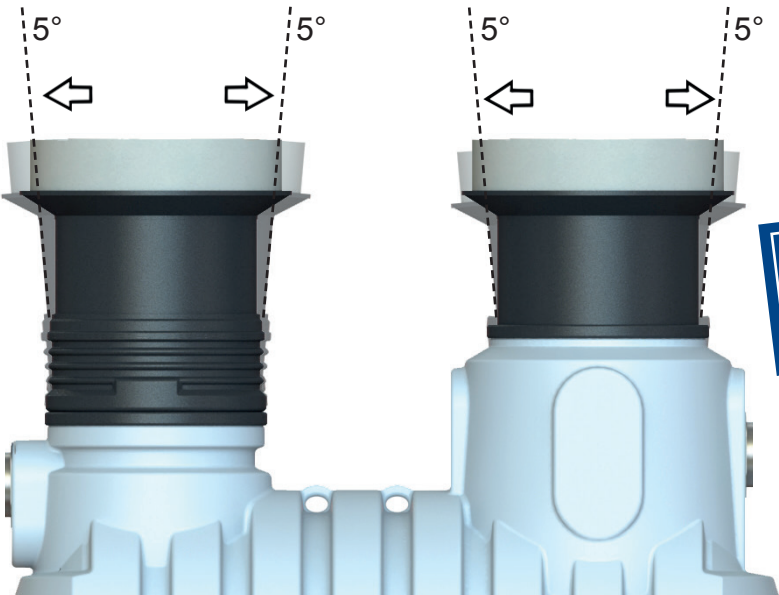
- Fully adjustable ground level cover over the tank top, tiltable to 5°. Ideal for asphalt surfaces.



Attention: To ensure permanent suitability for car/truck traffic an outer concrete lining is required round the shaft. Further information is available in the installation instructions.

| Cover | Dimensions [cm] | | Weight [kg] |
|------------------------|-----------------|---------|-------------|
| | d | h | approx. |
| Foot traffic plastic | 85 | 46 - 64 | 25 |
| Car traffic concrete | 74 | 57 - 75 | 120 |
| Truck traffic concrete | 78 | 61 - 79 | 180 |

The dome assemblies are fully adjustable for height and tilt (up to 5%) providing a high degree of flexibility in installation.



Adjustable height and up to 5% tilt

KLARO GmbH
Spitzwegstraße 63
95447 Bayreuth

Telephone: +49(0)921 16279-0
Fax: +49(0)921 16279-100
E-Mail: info@klaro.eu

Further information under
www.klaro.eu



Technical hotline
+49 (0) 921 16279-330

