PRE-QUALIFICATION





























1926 UPHOLDING THE HERITAGE OF QUALITY SINCE

The humble origins of a successful business conglomerate - KLUDI dates back to 1926, where the concept of quality and sustainable bath fittings for the users' comfort and convenience took shape in a production workshop in Germany. The idea evolved from KLUDI's core mission, to make every household innovative and add value to the lives of people in the community.

KLUDI are the experts in bathroom and kitchen fittings and total bathroom solutions. With over 90 years of experience in the design of fittings, the design experts blend shape and function to create a spectrum of precision-perfect products. KLUDI's exclusive product portfolio of fittings is unique in design and conserves water & energy. Reputed for their aesthetic styles, functionality and sustainable features, KLUDI fittings continue to be a source of inspiration even today.

To cater to the quality-conscious customers in the United Arab Emirates and the Middle East and their requirements for elegant and functional quality fittings, RAK Ceramics, the world's largest ceramic manufacturer in collaboration with KLUDI Germany, the world-leaders in mixers, showers and accessories established KLUDI RAK in the Emirate of Ras Al Khaimah.

Together with KLUDI RAK's 10 years of regional expertise, skilled craftsmen, a manufacturing unit equipped with advanced European technology and backed by KLUDI's 9 decades of expertise in kitchen and bath fittings, KLUDI RAK has all the strengths combined to design and manufacture premium water-efficient products that are durable and consistent in quality.

KLUDI RAK fittings are the preferred product of choice for commercial, industrial and residential sectors across UAE. Moreover are recommended by architects, interior decorators and project planners. KLUDI RAK is thus poised to offer top-notch kitchen and bathroom products to its





QUALITY REFLECTS IN EVERY DETAIL

Makers of beautifully crafted, high quality kitchen and bathroom products KLUDI RAK is a brand to reckon with. Strategically located in the Emirate of Ras Al Khaimah, KLUDI RAK upholds the brand promise by consistently delivering top-grade products to its loyal customers.

Accredited with various certifications for quality, conformity and promoting sustainability, the state-of-the-art manufacturing plant of KLUDI RAK integrates the latest European technical innovations in its development process, while adhering to sustainable practices by creating energy and water saving products, besides having superior quality raw materials procured from Europe to maintain consistency in the quality of the products at all times; Ultimately, the finest range of bathroom and products are directly supplied from the KLUDI RAK factory across GCC, the Middle East, Africa and Indian subcontinent.















وزارة الأشغـــال الـعـامـــة MINISTRY OF PUBLIC WORKS



الهيئة السعودية للمواصفات والمقاييس والجودة Saudi Standards, Metrology and Quality Org.







KLUDI RAK uses Brass as per European Drinking water standard.

كلودي راك تستخدم نحاس تصنيع الخلاطات وفقا لمعايير مياه الشرب الأوروبية

KLUDI RAK maintains a 3-layer plating thickness of Semi bright Nickel, bright Nickel and Chrome - measuring minimum 12.3 microns

كلودي راك تحافظ على ثلاث طبقات من طلاء النيكل الشبه لامع , واللامع وطبقة من الكروم بهدف الحصول على سماكة 12.3 ميكرون من الطلاء



كلودي راك تستخدم خراطيم مياه مرنة من الستانلس استيل مقاومة للصدأ لضمان النظافة عطابقة DVGW/KIWA/CSTB/WRAS



Betriebsnorm Works-standard

KBN 92



Spezifikation für Messing – entzinkungsbeständig, wasserführend Specification for brass – dezincification resistant, water-bearing

> Fertigungsverfahren Kokillenguss Manufacturing method casting

Manufacturing method casti

1. Purpose:

In German (European) drinking water installations all used parts and additives have to comply with the generally acknowledged rules of technology, in order to fulfil hygienic requirements und aspects of safety.

This works-standard ensures that all brass components delivered by Kludi conform to those rules.

2. Norms and regulations:

According to the Drinking Water Ordinance (TrinkwV 2001) only the following materials are allowed and to be used for the above described application

1. Zweck:

In den deutschen (europäischen) Trinkwasser-Installationen dürfen nur Bauteile und Hilfsstoffe eingesetzt werden, die den anerkannten Regeln der Technik entsprechen und damit Hygieneanforderungen und Sicherheitsaspekte gewährleisten.

Diese KBN soll gewährleisten, dass alle Messingwerkstoffe, die Kludi in Verkehr bringt, dieses erfüllen.

2. Normen und Vorschriften:

Gemäß Trinkwasserverordnung (TrinkwV 2001) sind nur folgende Werkstoffe zulässig und für die oben beschriebene Anwendung zu verwenden

CuZn3	6Pb-C	CC770S		
	Element (element)		min. [%]	max. [%]
Cu	Kupfer (copper)		62,0	64,0
AI	Aluminium (alumini	um)	0,5	0,7
Fe	Eisen (iron)		0,00	0,30
Mn	Mangan (manganese)		0,00	0,1
Ni	Nickel (nickel)		0,0	0,2
Pb	Blei (lead)		0,2	1,6
Sn	Zinn (stannous)		0,0	0,3
Zn	Zink (zinc)		Rest	rest
As	Arsen (arsenic)		0,04	0,14

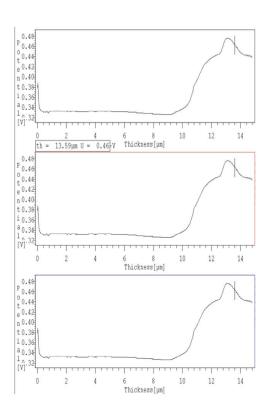




KLUDI RAK Electro plating plant is one of the biggest in the region. The plant is fully automated and computer controlled which enables to maintain a 3-layer plating thickness of Semi bright Nickel, Bright Nickel and Chrome- measuring minimum 12.3 microns



NICKEL THICKNESS

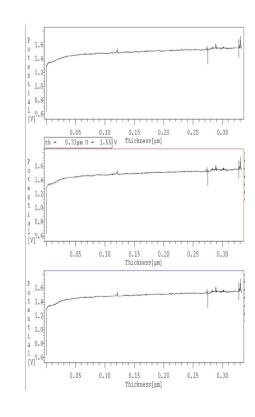


Current: 4.59mA Deplating Rate: 5pm/min Pump Freq.: 100Hz ID-Meas.Appl11101

DATE - 14.02.2018 Polaris Basin Body

BRIGHT NI - 09.51 MICRON Semi Bright Ni - 04.08 Micron

CHROME THICKNESS



Current: 1.11mA Deplating Rate: 0µm/min Pump Freq.: 150Hz ID-Meas.Appl.1202

mment-

DATE - 14.02.2018 Polaris Basin Body Chrome Thickness - 0.33 Micron

> KLUDI RAK

7 PRE-QUALIFICATION



TECHNICAL CHARACTERISTICS OF THE CERAMIC DISCS:

Material: Al₂O₃

3

Surface roughness Ra: 0.2 µm

Contact surface area: 50-80%

TECHNICAL CHARACTERISTICS OF THE CARTRIDGE:

Opening angle:	25°	
Max. mixing angle:	90°	
Max. temperature:	90°C / 194°F	

Pressure	test:	pneumatic	6 bar /	87 psi

hydraulic 35 bar / 500 psi

Flow rate:

- (3 bar / 45 psi, test faucet, EN 817)
 - 20.1 l/min / 5.3 gpm with resistance "C"
 - 26.0 l/min / 6.8 gpm without resistance

Endurance test:

EN 817

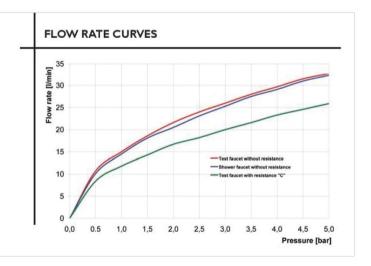
ASME AI 12.18.1M

500 000 cycles

210,000 cycles









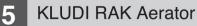


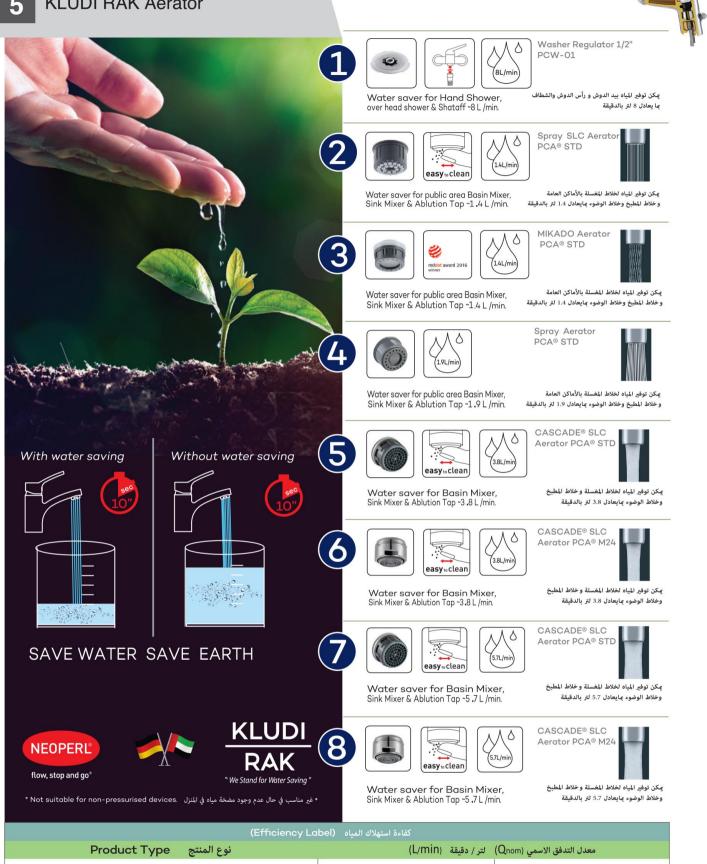
KLUDI RAK uses plastic parts to assemble their mixers accordance to KTW/W270, WRAS, KIWA and DVGW guidlines to drinking water and comply to the hygienic and toxicological requirements.

APPROVED PRODUCT
This certifies that
KLUDI RAK L.L.C
has had the undermentioned product examined, tested and found, when correctly installed, to comply with the requirements of the United Kingdom Water Supply (Water Fittings) Regulations and Scottish Water Byelaws.
RAK10002 POLARIS COMBINATION TAP ASSEMBLY
status of an approval must be obtained from the WRAS Directory (www.wras.co.uk/directory)
The product so mentioned will be valid until the end of:
February 2023
1802038
Certificate No.
Ceruncate No.
JEurinal Mille
Secretary Chairman, Product Assessment Group
,,,



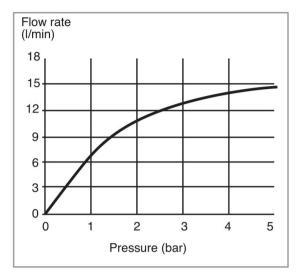




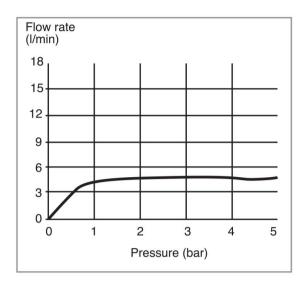


نوع المنتج Product Type		معدل التدفق الأسمي (Qnom) لتر / دقيقة (L/min)		
		****	****	
Shower Mixer	صنابير ورؤس (الدش) وخلاطات الاستحمام	9.5 ≥ Q _{nom} > 8.0	Q _{nom} ≤ 8.0	
Private Toilet Mixer	صنابير دورات المياه العامة	$1.9 \ge Q_{nom} > 1.7$	Q _{nom} ≤ 1.7	
Public Toilet Mixer	صنابير دورات المياه الخاصة	$6.0 \ge Q_{nom} > 5.0$	$Q_{nom} \leq 5.0$	
Toilet flush Tank	المراحيض بخزان مياه / نظام دفق	6.0 / 4.0 (dual flush) 4.8 (single flush)	4.5 / 3.0 (dual flush) 4.2 (single flush)	
Urinal flush Tank	مبولة بنظام دفق	1	0.5 or Waterless	
Kitchen mixer Tap	صنابير المطبخ	$6.0 \ge Q_{nom} > 5.0$	$Q_{nom} \leq 5.0$	
Wash basin Tap	صنابير مقاعد الاغتسال	$6.0 \ge Q_{nom} > 5.0$	$Q_{nom} \leq 5.0$	
Abution Mixer	صنابير الرذاذ للوضوء	$6.0 \ge Q_{nom} > 5.0$	Q _{nom} ≤ 5.0	

Graph Comparision A flow Areator with Water Saving PCA 6 ltr / Min







Graph with Water Saving PCA 5 ltr/ Min

Reference Numbers		
RAK10000	DN10-3/8" without water saving	
RAK10000-01	DN15-1/2" with water saving	
RAK10000-03	DN15-1/2" without water saving	
RAK10000-04	DN10-3/8" with water saving	

With our water-saving products, you get the ideal water flow rate, which meets the requirements and recommendations from the standardization bodies of the UAE, Saudi Arabia and Egypt.



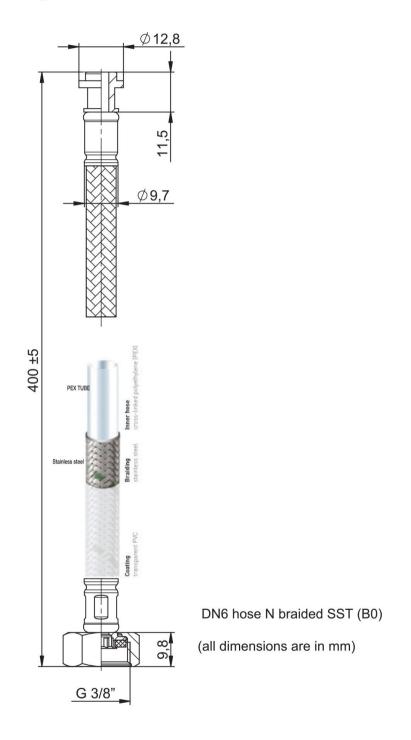
MADE IN United Arab Emirate	بلد الصنع	
BRAND NAME	العلامة التجارية	E1009403-400
Water Consumption		5
4.61 Liters/min		أ ب







KLUDI RAK uses connecting stainless steel braided hoses with a PEX tube inside which is as per drinking water standard.



APPROVALS: DVGW, CSTBAT, KIWA, WRAS





KLUDI RAK Guarantees:



Expertise and Innovation

Fittings accompany us throughout our daily routines We come into contact with them all the time in the bathroom and kitchen. This gives rise to certain wishes and expectations for form and function.

KLUDI RAK understands these requirements–and implements them in products that are perfectly finished and that combine timeless design,innovative technology and superior quality materials.



ADDITIONAL PRODUCT REFERENCE CODES

FOR BASIN/ BIDET/ SINK	FOR BASIN/ BIDET/ SINK MIXERS			
RAKXXXXX	3/8" HOSE CONNECTION - FLOW RATE 15 \leq LTR/MIN			
RAKXXXXX-01	1/2" HOSE CONNECTION - FLOW RATE 6 LTR/MIN			
RAKXXXX-03	1/2" HOSE CONNECTION - FLOW RATE 15 \leq LTR/MIN			
RAKXXXX-04	3/8" HOSE CONNECTION - FLOW RATE 6 LTR/MIN			
RAKXXXX-31	1/2" HOSE CONNECTION - FLOW RATE 1.9 LTR/MIN			
RAKXXXX-32	1/2" HOSE CONNECTION - FLOW RATE 3 LTR/MIN			
RAKXXXX-09	1/2" HOSE CONNECTION - FLOW RATE 3.8 LTR/MIN			
RAKXXXX-33	1/2" HOSE CONNECTION - FLOW RATE 5 LTR/MIN			
RAKXXXX-37	1/2" HOSE CONNECTION - FLOW RATE 0.6 LTR/MIN			
FOR SHOWER MIXERS	HAND SHOWER & OVERHEAD SHOWER			
RAKXXXXX	FLOW RATE 15 ≥ LTR/MIN			
RAKXXXX-21	FLOW RATE 9 LTR/MIN			
RAKXXXX-22	FLOW RATE 7 LTR/MIN			

FOR BATH MIXER				
RAKXXXXX	FLOW RATE 22 ≥ LTR/MIN			
RAKXXXX-86	FLOW RATE 9 LTR/MIN			
RAKXXXX-87	FLOW RATE 8 LTR/MIN			
RAKXXXX-88	FLOW RATE 6 LTR/MIN			
COUNTRY CODES				
RAKXXXXEG	EGYPT STANDARD			
RAKXXXXAD	ADQCC STANDARD			
RAKXXXXSA	SASO STANDARD			
AVAILABLE FINISHES				
RAKXXXXX.GD1	GLOSSY GOLD			
RAKXXXXX.RG1	GLOSSY ROSE GOLD			
RAKXXXXX.BK1	GLOSSY BLACK			

CREATE YOUR PRODUCT CODE

PRODUCT CODE	IMAGE	FINISH	FLOW RATE
RAK16000-09		CHROME	3.8LTR/MIN
RAK16000-33.GD1	\sim	GOLD	5 LTR/MIN
RAK16000-31.RG1	\sim	ROSE GOLD	1.9 LTR/MIN
RAK16000-09.BK1	\sim	BLACK	3.8 LTR/MIN

CARE INSTRUCTIONS

Dear Customer,

Congratulations on choosing the best bathroom fittings for your needs!

In order to ensure the long life of your Kludi RAK products, please follow the enlisted care and cleaning instructions.

- · Clean the surface to prevent accumulation of dirt and lime scale
- For daily cleaning use neutral cleaners and water
- For removing strong lime scale use cleaners with citric acid base
- Use cleaning agents specially developed for fittings
- Cleaning sprays should first be sprayed on a soft cloth and then the cloth should be used to clean the fittings. Do not spray them directly on the surface of the fitting.
- The amount of cleaning agent used should be just sufficient to remove the dirt and lime scale. Do not use excessive quantities. Also, do not let the cleaning agent stay on the surface for longer time than necessary.
- After using the cleaning agent, rinse the fitting with sufficient water to remove it and then polish with a soft cloth.

The chrome plating on the surface of the fitting is a result of a lot of chemical reactions. Strong cleaners and bleach can alter the effects of these reactions and cause significant damage to the surface and void the warranty. In any case do not use any of the following to clean the fittings:

- Abrasive cleaning materials, pads, scourers etc.
- · Cleaning agents with volatile acids like hydrochloric or acetic acid
- Scouring powders or abrasive cleaning fluids
- Cleaning agents containing bleach such as Clorox.

Cleaning the fittings after each use helps retain their value!





RAK3200701

ABS chrome Shattaf with Ceramic Shut-off valve Connection 1/2 inch Silver hose G1/2 x G 1/2 x 1200mm with dirt catching sieve





RAK3200702

ABS chrome Shattaf with Concealed single lever mixer, pre installation kit DN15 Connection 1/2 inch Silver hose G1/2 x G 1/2 x 1200mm with wall bracket with dirt catching sieve





RAK3200703

ABS chrome Shattaf with Single lever shattaf mixer DN 15 ceramic cartridge-K35 flow class B shower outlet G 1/2" protected against back flow S- unions 1/2 X 3/4 inch European standard- EN 817









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www.kludirak.com

