On-line analysis device type Colormetry CMU 324 HE

determination of residual water hardness

function on-line alarm device for automatic detection of hardness leakages

behind water treatment installations

measurement principle colorimetry: limit value monitoring

methode colour change

mixing chamber principle flow-injection with self-cleaning effect

monitoring range 0 ... 5 mg/l

corresponding units $0 \dots 5$ ppm CaCO₃

0,01 ... 0,05 mmol/l CaCO₃

0 ... 0,25 °dH 0,1 ... 0,5 °df

display graphic

power supply DC 24V according to EN60950-1

power apply option - on site

- via wall power supply / order no. 00730455

- via Konverterbox (optional equipment) / order no. 00730454

power consumption 15 W (in operation)

feed water pressure 0,5 ... 5,0 bar

integrated constant flow valve

limit value monitoring thresholds adjustable in device:

⇒ 1 mg/L
 ⇒ 2 mg/L
 ⇒ 3 mg/L
 ⇒ 5mg/L

reagent residual hardness only one indicator for all limits provided in a clean and easy to

handle service cartridge for low maintenance operation

⇒ cartridge replacement is also wearing parts exchange

output function 3 x open collectors for max. load: DC 24V 70mA

⇒ limit alarm and device errors (automatic self-check-mode)
 ⇒ lack of reagent alert (BOB-alert [regarding German TÜV])

⇒ water passing/monitoring active

1 x serial interface RS232

input function 1 x potential free contact

⇒ e.g. remote signal input for external analysis start

scope of delivery CMU-324HE on line monitor water hardness / pipe

fitting for feed water tube diameter $\phi 1/4"(\phi 6mm)$ / app. 5 m feed water tube $\phi 1/4"(\phi 6mm)$ / pipe fitting for drain water tube diameter $\phi 5/16"(\phi 8mm)$ / app. 3 m drain water tube $\phi 5/16"(\phi 8mm)$ / fine filter casing assembly with fine filter cartridge / ball valve and plumbing parts for hydraulic connection / mounting bracket and

other miscellaneous parts / user`s manuals

dimension H x W x D device in operation app. 550 x 125 x 100 [mm]

transport packing app. 460 x 290 x 155 [mm]

wight device app. 2,5 kg

transport wight app. 3,5 kg

customs commodity code 90278017

type Colormetry CMU 324 HE order no. 00730451

consumables HE service-cartridge with reagent order no. 00730452

fine filter cartridge order.no. 00730457

HE service-cartridge with reagent for Colormetry CMU 324 HE

reagent function determination of residual hardness in water

measuring range 0 ... 5 mg/l

limit values adjustable in device

expiry genuine packed: app. 2 years from manufacturing

in operation: app. 4-6 month

storage cool, dry and dark / avoid direct sunlight

delivery condition vacuum packing

service function cartridge replacement is also wearing parts exchange

dimension H x W x D cartridge app. 240 x 90 x 45 [mm]

transport packing app. 260 x 100 x 50 [mm]

wight cartridge app. 0,5 kg

transport wight app. 0,6 kg

customs commodity code 38220000

type service cartridge CMU 324 HE order no. 00730452

OPTION

KONVERTER BOX for Colormetry CMU 324 series 24V DC-power supply unit and interface adapter

primary voltage 180...230V

secondary voltage 24 VDC 20VA

outputs 3 x potential free relay

1 x analog 0/4...20mA

inputs 1 x digital potential free

scope of supply 1 pc. power supply unit 180-230VAC/24VDC in enclosure IP65

6 pc. PG screws [2xM16, 4xM12]

1 pc. communication plug-in card

[3 x pot.free relay OUT, 1x pot.free IN, 1x 0/4-20mA OUT]

1 pc. RS232 counter plug

app.3m confectioned connecting cable with plugs,

14 strands, 1 shield

1 pc. operation manual

protection class if closed enclosure IP 65

dimension H x W x D Konverterbox in operation app. 230 x 120 x 80 [mm]

transport packing app. 320 x 250 x 160 [mm]

wight Konverterbox app. 1,0 kg

transport wight app. 1,5 kg

customs commodity code 90278017

type Konverterbox for Colormetry CMU 324 order no. 00730454