## Mi404/Mi406/Mi413/Mi414 Free & Total Chlorine and Chloride Photometers

Milwaukee provides a range of chlorine photometers for all applications: swimming pool treatments, household cleaners, dishwasher additives, laundry powders/liquids and cooling water treatment products all contain chlorine as an oxidizing biocide. Drinking water contains residual chlorine to maintain water purity throughout the supply lines.

Milwaukee offers 3 microprocessor-based instruments with greater resolution, better accuracy and immediate results.

You can choose between three different models:

**Mi404** for measuring free (0.00 to 5.00 mg/L) and total (0.00 to 5.00 mg/L) chlorine, **Mi406** for measuring free (0.00 to 5.00 mg/L) chlorine and **Mi413** for measuring free (0.00 to 10.00 mg/L) and total (0.00 to 10.00 mg/L) chlorine.

Chloride is a major constituent of sea water and is extremely corrosive in acidic environments. It requires close monitoring in applications such as marine boiler systems that are effected by seawater contamination.

Chlorides are used by the water treatment professional to determine cycles of concentration in low pressure boilers and cooling systems.

It is essential to monitor chloride concentrations in boiler systems to prevent metal parts being damaged. In high levels, chloride can corrode stainless steel.

Milwaukee offers the **Mi414** microprocessor-based photometer for measuring chloride (0.00 to 20.00 mg/L).

			1		
Specifi	cations			<b>N N N N N N N N N N</b>	
		Mi404	Mi406	Mi413	Mi414
		Free & Total Chlorine	Free Chlorine	Free & Total Chlorine HR	Chloride
Range	Free Chlorine Total Chlorine Chloride	0.00 to 5.00 mg/L (Cl <sub>2</sub> ) 0.00 to 5.00 mg/L (Cl <sub>2</sub> )	0.00 to 5.00 mg/L (Cl <sub>2</sub> )	0.00 to 10.00 mg/L (Cl <sub>2</sub> ) 0.00 to 10.00 mg/L (Cl <sub>2</sub> )	0.00 to 20.00 mg/L (Cl <sup>-</sup> )
Resolution		0.01 mg/L (0.00 to 3.50 mg/L); 0.10 mg/L (above 3.50 mg/L) 0.01 mg/L (0.00 to 3.50 mg/L); 0.10 mg/L (above 3.50 mg/L)	0.01 mg/L (0.00 to 3.50 mg/L); 0.10 mg/L (above 3.50 mg/L)	0.01 mg/L (0.00 to 3.50 mg/L); 0.10 mg/L (above 3.50 mg/L) 0.01 mg/L (0.00 to 3.50 mg/L); 0.10 mg/L (above 3.50 mg/L)	1 4 V
Accuracy	Free Chlorine Total Chlorine Chloride	±0.04 mg/L @1.50 mg/L ±0.04 mg/L @1.50 mg/L	±0.04 mg/L @1.50 mg/L	±0.10 mg/L @5.00 mg/L ±0.10 mg/L @5.00 mg/L	0.01 mg/L ±0.4 mg/L @10.0 mg/L
Method		adaptation of USEPA method 330.5 and Standard Method 4500-CI G	adaptation of USEPA method 330.5 and Standard Method 4500-CI G	adaptation of USEPA method 330.5 and Standard Method 4500-CI G	adaptation of mercury (II) thiocyanate method
Light Source		tungsten lamp	tungsten lamp	tungsten lamp	Blue LED 466 nm
Light Detector		silicon photocell and 525 nm narrow band interference filter	silicon photocell and 525 nm narrow band interference filter	silicon photocell and 525 nm narrow band interference filter	silicon photocell and 466 nm narrow band interference filter
Environment		0 to 50°C / 32 to 122°F max RH 100%	0 to 50°C / 32 to 122°F max RH 100%	0 to 50°C / 32 to 122°F max RH 100%	0 to 50°C / 32 to 122°F max RH 100%
Battery Type		1 x 9 V	1 x 9 V	1 x 9 V	1 x 9 V
Auto-off		after 10 minutes of non-use	after 10 minutes of non-use	after 10 minutes of non-use	after 10 minutes of non-use
Packaging dimensions		305 x 280 x 115 mm	305 x 280 x 115 mm	305 x 280 x 115 mm	305 x 280 x 115 mm
Packaging weight		1.24 kg	1.26 kg	1.52 kg	1.44 kg

## Accessories

- Mi504-100 Free & Total Chlorine liquid reagent set (100 tests)
- Mi506-100 Free Chlorine liquid reagent set (100 tests)
- Mi513-045 Free & Total Chlorine liquid reagent set (45 tests)
- Mi514-100 Chloride liquid reagent set (100 tests)



## Ordering Information

Mi404, Mi406, Mi413 and Mi414 are supplied complete with 2 cuvets, reagents, hard carrying case, wiping tissue, 9V battery and instructions.

(100 tests) Mi526-100 Free Chlorine powder reagents (100 tests) Mi0001 Glass cuvets (2 pcs)

Mi524-100 Total Chlorine powder reagents

- Mi0002 Caps for cuvets (2 pcs) Mi0003 Stoppers for cuvets (2 pcs)
  - Stoppers for cuvets (2 pc

## www.milwaukeeinst.com

CI\_/CI

M

CE