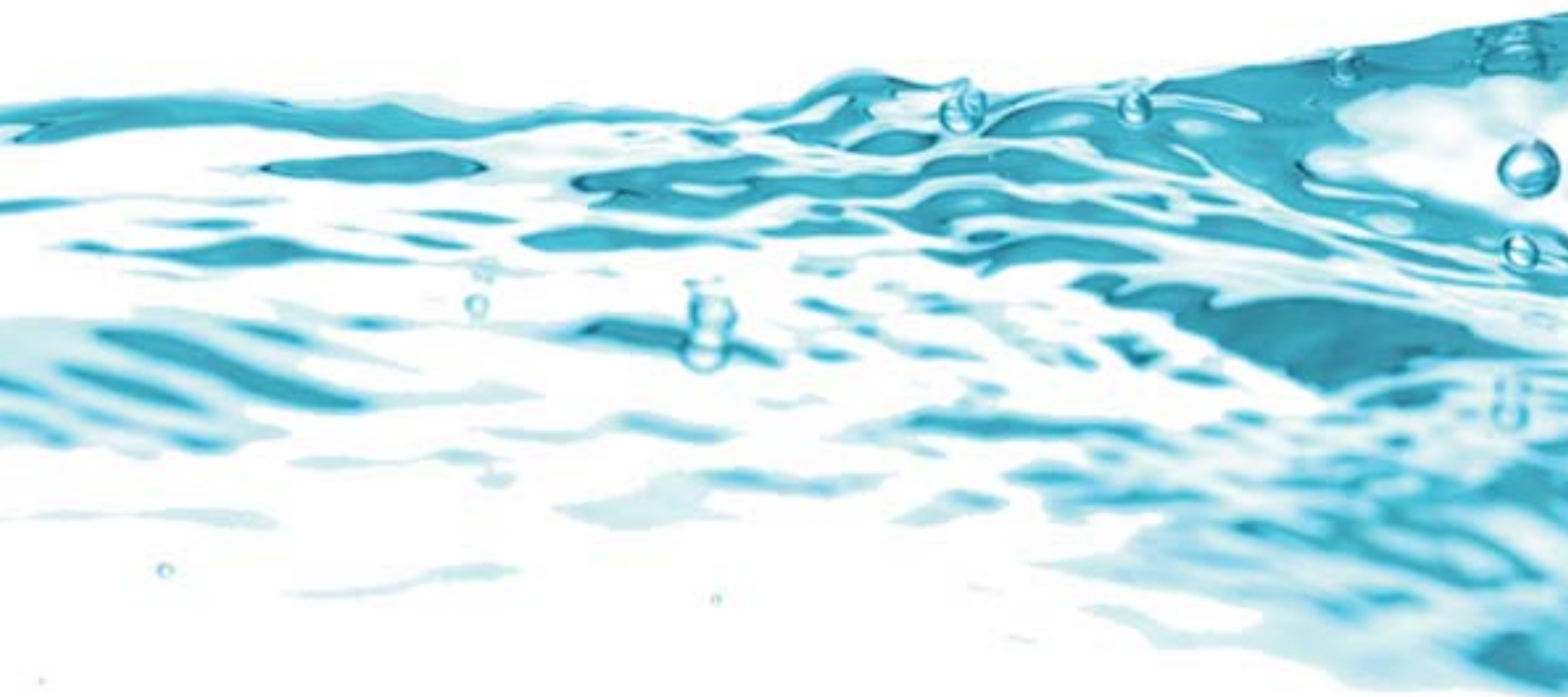




EUTEC™ FS *Liquid/liquid separation*

油水分离装置 OIL/WATER SEPARATOR



EUTEC™ MF *Solid/liquid microfiltration*

超细过滤器

MICROFILTER



Mitsui Chemicals Asahi Life Materials
エム・エーライフマテリアルズ

油水分离装置 OIL/WATER SEPARATOR

值得信赖,业绩卓著的油水分离装置 **EUTECH™FS T系列**

先进的滤芯技术,实现了高性价比。



特长

- 微米程度的油(水)滴在瞬间便可分离
- 自动排油(水)功能
- 压力损失低,流量高
- 使用寿命长
- 小体积设计
- 省维修

Features

- The oil(water) of micron order can be separated instantaneously
- Automatic discharging oil(water) system
- Low pressure loss and high flux
- Long operating life
- Compact design
- Easy maintenance

超细过滤膜 MICROFILTER

充分发挥材料特长的精密过滤 **EUTECH™MFAM系列**

我们追求附加值高的微米~纳米过滤膜。

特长

- 压力损失低,流量高
- 使用寿命长
- 丰富的过滤材料
 - 纤维 (PP, PET, 锦纶, 玻璃)
 - 薄膜 (PTFE, PES)
 - 缠线 (PP, 棉花, PPS)

Features

- Low pressure loss and high flux
- Long operating life
- Applicable for various fluid
 - Nanofiber pleats filter (PP, Nylon)
 - Pleats filter (PP, PET, Nylon, Glass fiber)
 - Membrane filter (PTFE, PES)
 - Wind filter (PP, Cotton, PPS)



用途 Application

水类清洗 Aqueous cleaning system

EUTEC™TH型
EUTEC™ MODEL: TH

水类清洗剂, 冲洗水中的油分离
Separation oil from aqueous cleaner and rinse water

适合的清洗剂 Applicable cleaner

1. 碱性类清洗剂, 中性清洗剂 (表面活性剂类)
 2. 水 (温水), 纯水, 电解水
 3. 准水类清洗剂 (有机溶剂+表面活性剂)
1. Alkaline type, Neutral type
2. Water, Electrolyzed water
3. Semi-aqueous cleaner

效果

1. 清洗剂, 洁净水的使用寿命的延长, 废弃液的减少
2. 加工用油的重新附着率降低

EFFECT

1. Life prolongation and reduction of cleaner and rinse water
2. Reduction of reattached oil

型号	最大流量	过滤筒
TH-06	6 L/min	EUS12BV x 1本
TH-15	15 L/min	EUS10DA x 1本
TH-30	30 L/min	EUS10DA x 2本
TH-40	40 L/min	EUS10GA x 2本
TH-80	80 L/min	EUS10GA x 4本

氟化物类溶剂清洗 Fluorine solvent cleaning system

EUTEC™TT型
EUTEC™ MODEL: TT

氟化物类清洗剂中的水分离
Separation water from fluorine solvent

适合的清洗剂 Applicable cleaner

1. HFE
 2. HFC
 3. 氟化物类溶剂
 4. 溴化物类溶剂
 5. 氟气类溶剂
1. Hydrofluoroethyl
2. Hydrofluorocarbon
3. Fluorine solvent
4. Chlorine solvent
5. Bromine solvent

效果

1. 溶剂使用寿命的延长, 废弃液的减少
2. 水的重新附着减少

EFFECT

1. Life prolongation and reduction of solvent
2. Reduction of reattached water

型号	最大流量	过滤筒
TT-20	20 L/min	EUS10BV x 1本
TT-40	40 L/min	EUS07DA x 1本
TT-80	80 L/min	EUS07DA x 2本

碳化氢类溶剂清洗 Hydrocarbon solvent cleaning system

EUTEC™TK型
EUTEC™ MODEL: TK

碳化氢类清洗剂中的水分离
Separation water from Hydrocarbon solvent

适合的清洗剂 Applicable cleaner

1. 碳化氢类溶剂 (同系碳氢化合物等)
 2. 灯油 (火箭燃料) 等
1. Hydrocarbon solvent
2. Kerosene

效果

1. 溶剂的使用寿命的延长, 废弃液的减少
2. 水的重新附着降低

EFFECT

1. Life prolongation and reduction of solvent
2. Reduction of reattached water

型号	最大流量	过滤筒
TK-15	15 L/min	EUS10BV x 1本
TK-30	30 L/min	EUS07DA x 1本
TK-60	60 L/min	EUS07DA x 2本

EUTEC™MF

用途 Application

1 纯水·清洗剂的过滤 Pure water and cleaning agent

纯水·超纯水
Pure water

水类清洗剂
Aqueous cleaner

氟化物类溶剂
Fluorine solvent

碳氢化合物类清洗剂 其它
Hydrocarbon solvent

电解水
Electrolyzed water

2 酸·碱的过滤 Acid and alkaline

镀金用药剂
Plating chemical

腐蚀用药剂
Etching chemical

脱脂剂 等
Degreasing agent

3 化学品的过滤 Chemical

光致抗蚀料
Photoresist

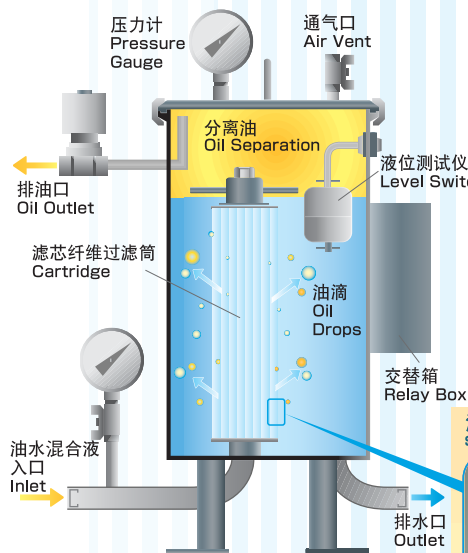
高粘度液体
Highly viscous liquid

有机溶剂
Organic solvent

润滑油 等
Lubricant

原理 Principle

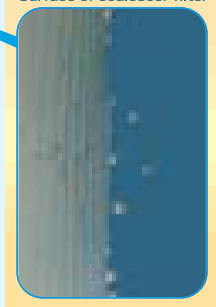
TH款的分离原理 Mechanism of oil/water separation



分散在水清洗剂中微小的油滴通过用滤芯纤维过滤器过滤后,使其变成 1~2mm ϕ 左右大小,在容器内根据比重的差瞬间得到分离。
飘浮在容器顶部的油,由液位测试仪检测其位置,并自动排出。

Fine oil droplets dispersed in the aqueous cleaner coalesce into one or two millimeter in the fiber network of the EUTEC™ cartridge, and mixture separates instantaneously into two layers immediately on its emergence into the vessel chamber.
Oil from the upper stratum is discharged through the oil vent via the solenoid valve whenever it is opened the level switch.

滤芯表面放大照片
Surface of coalescer filter



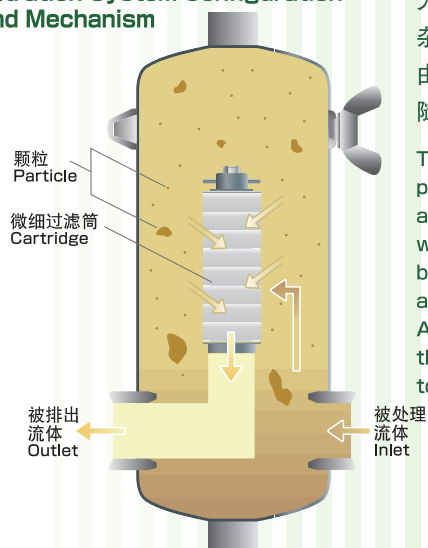
油滴变大过程 Process of oil coalescing



EUTEC™MF

原理 Principle

EUTEC™MF的原理 Filtration System Configuration and Mechanism

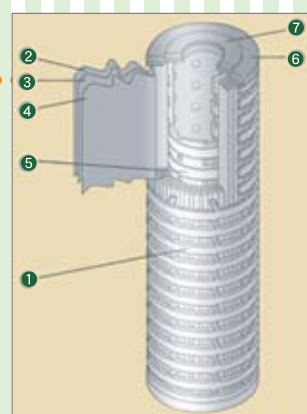


被处理流体从装置侧面的流入,按OUT→IN顺序通过过滤筒。

大颗粒沉降到装置的底部,小颗粒被过滤,杂物被去除变为干净的流体在底部的出口被排出。

由于去除液体中的颗粒,过滤筒的入口压力上升,随之将达到交换差压(入口和出口的压力之差)。

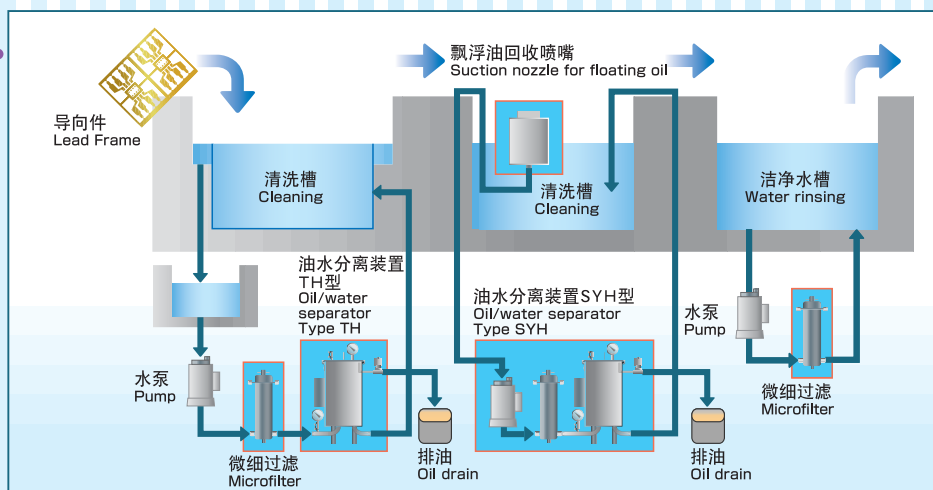
The target liquid is fed into the filtration vessel under pressure, passes through the microfilter cartridge element to its core, and from there to the vessel outlet. Particles in the feed liquid which are too large to enter the element settle to the bottom of the vessel chamber, and finer particles enter and are entrapped in the ultrafine-fiber network of the element. As the fine particles accumulate in the element, the pressure differential across the element gradually increases to a limiting value, and the cartridge must then be replaced.



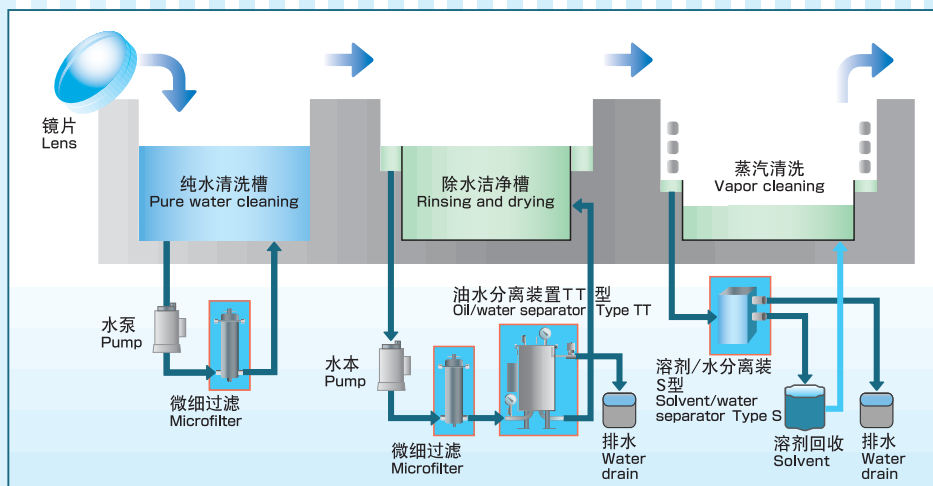
- ① 外筒 Outer tube
- ② 副过滤材料 Sub filter medium
- ③ 主过滤材料 Main filter medium
- ④ 副过滤材料 Sub filter medium
- ⑤ 内筒 Inner tube
- ⑥ 板式框架 Plate
- ⑦ 垫圈 Gasket

EUTEC™FS

水类清洗流水线 Aqueous Cleaning Process

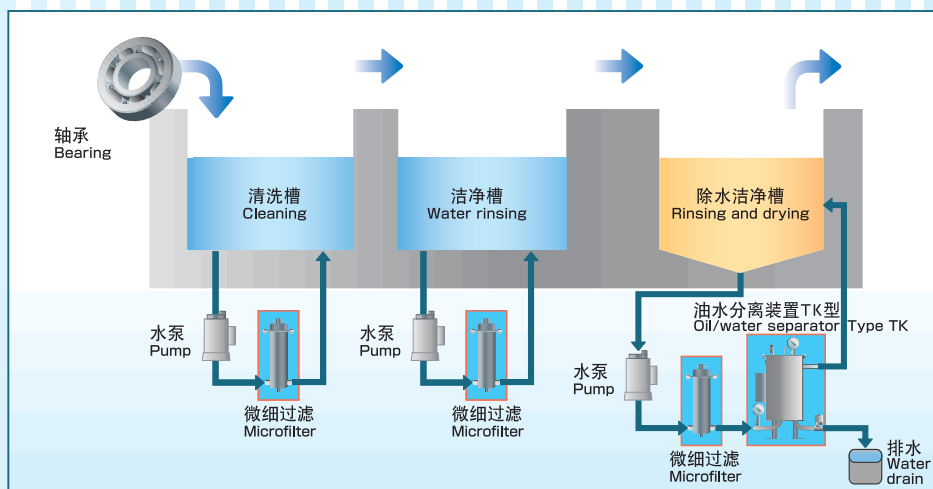


氟类溶剂 HFE/HFC 干燥线 HFE/HFC Solvent Drying Process



安装流程 Installation flow diagram

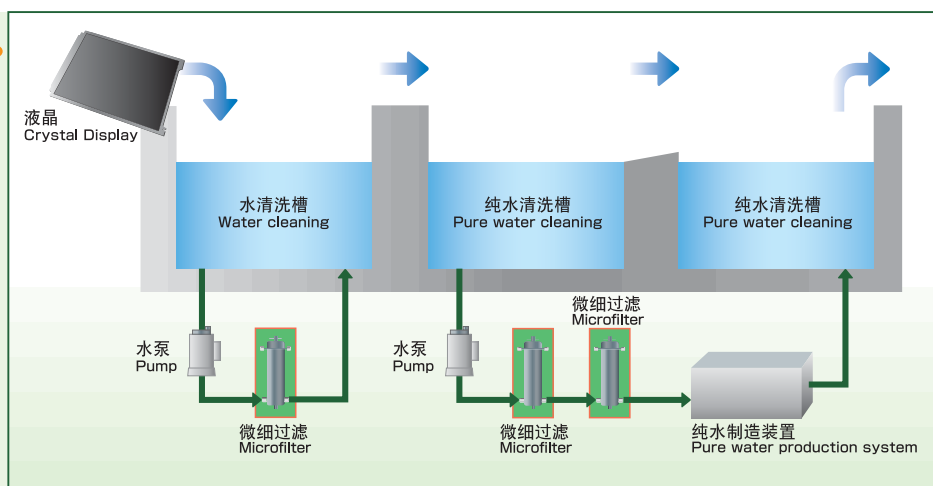
碳化氢类溶剂 干燥线 Hydrocarbon Solvent Drying Process



注)有关飘浮油回收喷嘴,SYH型,S型的详细情况请咨询。

EUTEC™MF

纯水清洗流水线 Pure Water Cleaning Process

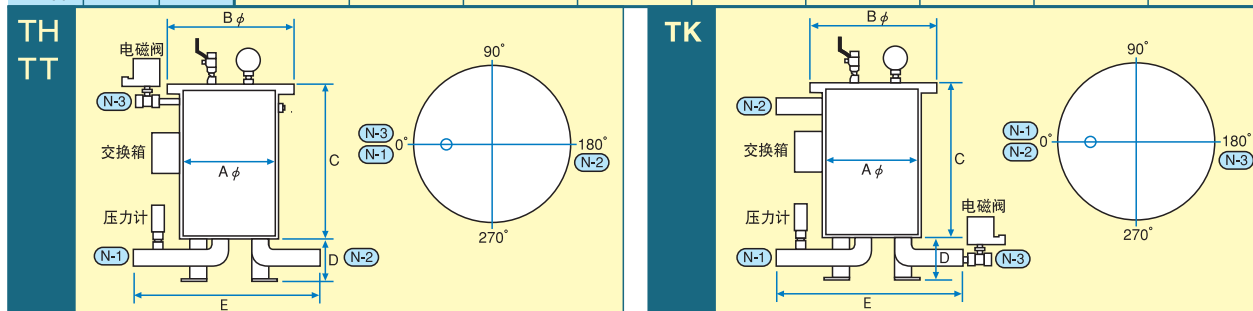


■详细规格 Specifications

		过滤筒规格 Cartridge spec.						装置规格 Separator spec.	
型号 Unit model		型号 Model	尺寸(mm) Dimension	过滤材质 Filter Material	框架 Frame	粘胶剂 Binder	垫圈 Gasket	材质 Material	
TH-06		EUS12BV	Φ70x246H	Nylon6	Nylon6	—	FKM	主体Body : SU304,BC 垫圈Gasket : FKM 设计压Design press. : 0.2MPa 电源Power supply AC200V	
TH-15	TH-30	EUS10DA	Φ150x360H	Nylon6	SUS304	Epoxy resin	—		
TH-40	TH-80	EUS10GA	Φ150x475H	Nylon6	SUS304	Epoxy resin	—		
TT-20	TK-15	EUS10BV	Φ70x246H	PET	PBT	—	FKM		
TT-40	TK-30	EUS07DA	Φ150x360H	PET	SUS304	Epoxy resin	—		
TT-80	TK-60	EUS07DA	Φ150x360H	PET	SUS304	Epoxy resin	—		

■装置尺寸 System Dimension

装置型号 Separator Model	Aφ	Bφ	C	D	E	N-1	N-2	N-3	P.C.D.
TH-06 TK-15 TT-20	216	286	388	100	415	3/4B	3/4B	1/4B	243
TH-15 TK-30 TT-40	267	342	512	100	420	3/4B	3/4B	1/4B	297
TH-30 TK-60 TT-80	400	485	560	120	666	1・1/2B	1・1/2B	3/8B	450
TH-40	400	485	660	120	666	1・1/2B	1・1/2B	3/8B	450
TH-80	609	770	895	350	995	1・1/2B	1・1/2B	3/8B	618



FS 超细过滤器 Prefilter for FS

缠绕型过滤器
AMWSC/AMWPP
最经济的・用途广的过滤膜
Wind type filter
AMWSC/AMWPP is
general and economical.

系列 SERIES	01X	03X	05X	10X	25X	50X	100
过滤精度 (μm) nominal filtering rating	1.0	3.0	5.0	10	25	50	100
尺寸 Dimension	全长 (mm) length						
	10inch(250mm)・20inch(500mm)・30inch(750mm)						
	外径 (mm) outer diameter						
材质 Material	滤材 filter media						
	SUS-304(AMWSC)・聚丙烯/Polypropylene(AMWPP)						
耐热 (°C) heat resistant temperature	150(AMWSC) 80(AMWPP)						
	耐压 (MPa) allowable pressure						
	0.49						

纤维型过滤器
AMP
全部为聚丙烯制 经济型
Pleat type filter AMP has
high cost performance.

系列		SERIES												
		040	060	01X	03X	05X	10X	30X	40X	50X	60X	70X	80X	
过滤精度 (μm) Filtering rating		abs.5.0	abs.6.0	abs.7.0	abs.10	abs.23	abs.30	abs.42	nom.40	nom.50	nom.60	nom.70	nom.80	
尺寸 Dimension	全长 (mm) length	10inch(252mm)・20inch(499mm)・30inch(744mm)												
	外径 (mm) outer diameter	70												
	内径 (mm) inner diameter	25.9												
	过滤面积 (cm²/10") filter area	4000										4200		2700
材质 Material		聚丙烯 / Polypropylene												
耐热 (℃) heat resistant temperature		80												
耐压 (MPa) allowable pressure		0.49												

过滤器
Filter housing

系列 SERIES	EFH-010	EFH-020	EAS-01H	EAS-010	EAP-011	EAP-012
过滤膜数量 Number of filter cartridge	10"×1	20"×1	5"×1	10"×1	10"×1	20"×1
口径 Piping diameter	G 3/4"		Rc 3/4"		Rc 3/4"	
	435		204		361	
尺寸 Dimension	全高 (mm) All high		76		120	
	直径 (mm) Diameter		115		120	
耐热温度 (°C) Use temperature	Max.60		Max.40		Max.80	
耐压 (MPa) Design pressure	0.49(5kgf/cm²)		0.49(5kgf/cm²)		0.49(5kgf/cm²)	
材质 Materials	SUS-316		ABS/AS		PP	

- 1) 使用之前,请一定阅读使用说明书
- 2) 本目录系 2023年10月 之前的内容,规格及设计等改良可能会在没有通知的情况下进行。望周知。
- 3) 与本目录所记载内容不同的用途,或用于与购买当初所不同的目的时,请与本公司联系。
- 4) EUTEC™为单体装置,需要另外准备水泵,微细过滤器等
- 5) 溶解在水中的油(溶剂),溶解在油(溶剂)中的水分不能分离
- 6) 本装置不具备防爆功能
- 7) TK型的最大处理流量是在油的粘度为2.0p以下的情况下

- 1) Refer to operating manual of each product prior to use.
- 2) Effective date of this publication Oct. 2023 . Please note that all information and products described herein are subject to change without notice.
- 3) Customers are requested to consult with MAL personnel prior to any applications different from those described herein or diversion from original use.
- 4) Pump and microfilter are necessary to install EUTEC™.
- 5) Oil(solvent) that is dissolving to water and water that is dissolving to oil(solvent) cannot be separated.
- 6) It is not an explosion-proof specification.
- 7) When the viscosity of oil is 2cP or less, it is possible to operate type TK in max. flow rate.



Mitsui Chemicals Asahi Life Materials Co., Ltd.
Filter Sales Department Industrial Materials Sales Division
Tokyo Midtown Yaesu, Yaesu Central Tower 10F
2-2-1 Yaesu, Chuo-ku, Tokyo, 104-0028 Japan
TEL : +81(0)3-6880-7630
E-mail : MAL_Filter_Contact@malifematerials.com