



Patent No. M381664

**CFT-Series Precision Candle**  
Automatic Cleaning

An automatic cycle can be set based on pressure or time to clean and back wash the filter elements. Once set there is no operator involvement.

**Application:**

- Electric Discharge Machines
- Carbide Tool Grinders

**Max Permissible Oil Viscosity:**

- EDM under 37 sus (73°F, 22.8°C)
- Grinder under 45 sus (100°F, 37.8°C)



Grinding oil samples  
Before and after



Each candle is comprised of thousands of compressed wafers that restrict particle from 1 ~ 3 micron

1. Coolant filtration system for EDM and oil grinding fluids
2. Each candle-like filter element is composed of thousands of compressed thin wafers. When dirty fluid passes through the compressed wafers, all particles over one micron are trapped on the outside edge of the filter element.
3. Filter efficiency reaches 1 ~ 3 micron.
4. Automatically cleaned by a rapid backwash cycle. Compressed air is used to blow out particles trapped on the filter elements and then deposit them into a sludge basket for recovery or disposable.
5. Life span of the filter elements last several years.

**Filter Efficiency:**

- 1 ~ 3 micron

**Recommended Oil**  
(No water mixed, which will deteriorate oil quality and reduce flow rate.)

**Grinding Oil**

BRAND	VISCOSITY	FLASH POINT
CROWN CUT 850	43 SUS@ 100°F	266°F
Sintogrand TT	45 SUS@ 100°F	320°F
Castrol 488 CF	45 SUS@ 100°F	230°F
Castrol Honilo 980	43 SUS@ 100°F	250°F
OMNI-Grind V	37 SUS@ 100°F	239°F
Norpar 15	33 SUS@ 100°F	240°F
Emol-O-Grind 168/3	45 SUS@ 100°F	266°F

**EDM Oil**

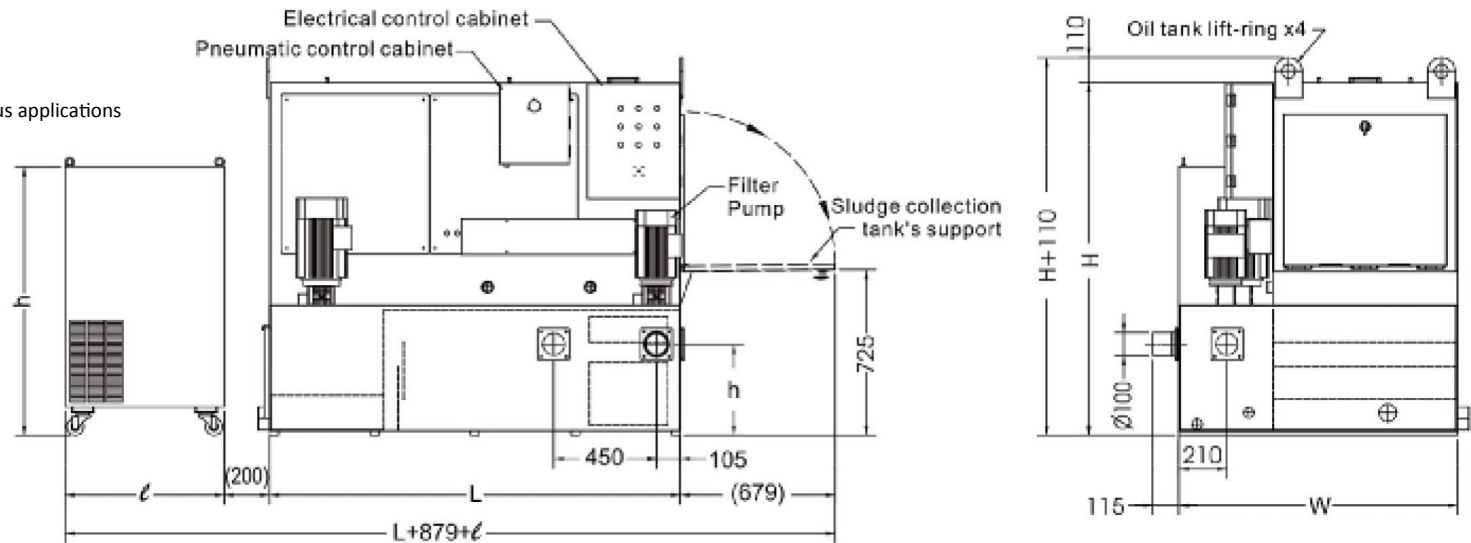
BRAND	VISCOSITY	FLASH POINT
Castrol SE 180	37 SUS@ 100°F	212°F
US-1	36 SUS@ 70°F	240°F
US-2	32 SUS@ 77°F	165°F
US-3	34 SUS@ 77°F	210°F
Interlyte	37 SUS@ 72°F	220°F
Iono Plus	37 SUS@ 77°F	225°F
Commonwealth 259T	37 SUS@ 72°F	259°F
Commonwealth 244	37 SUS@ 72°F	244°F

### CFT-Series Precision Candle Filters

Automatic Cleaning

#### Standard Options:

- A magnetic separator is recommended in ferrous applications as a pre-filter
- High pressure supply pumps are available
- Custom tank sizes are available
- A chiller can be added to control coolant temp



#### Automatic Precision Candle Filter

Model	Vessel No.	Flow Rate lpm	L	W	H	Inlet Height	Tank Vol.	Flow Rate Clean Oil	Chiller L x W x H
<b>CF4T-R1</b>	1	56	1340	1060	1545	300	640	50	(1-ton) 550 x 480 x 1040
<b>CF4T-1</b>	1	81	1340	1060	1545	300	640	60	(2-ton) 696 x 494 x 1175
<b>CFT-1</b>	1	91	1340	1220	1545	400	800	60	(2-ton) 696 x 494 x 1175
<b>CFT-1S</b>	1	135	1800	1220	1545	400	1080	90	(3-ton) 600 x 920 x 1245
<b>CF7T-1</b>	1	190	1525	1525	1545	400	1080	120	(3-ton) 600 x 920 x 1245
<b>CF7T-1S</b>	1	250	1525	1525	1545	400	1080	180	(4-ton) 1105 x 705 x 1399
<b>CFT-2</b>	2	190	1800	1220	1545	400	1080	120	(3-ton) 600 x 920 x 1245
<b>CFT-3</b>	3	270	2440	1220	1545	400	1450	180	(4-ton) 1105 x 705 x 1399
<b>CFT-4</b>	4	360	3050	1220	1545	400	1850	240	(5-ton) 1105 x 705 x 1399

Clean oil pressure: 6-Kg/cm<sup>2</sup>